RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF CONSERVATION

RCES 2/1/2010 Via e-mail API Well No. 097 908 41

DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES-

WELL SUMMARY REPORT — GEOTHERMAL

Operator Geysers Po	wer Comp	any, LLC			*	Well Aidlin 12				,			
Field Geysers (Ai	dlin Plant)					County Sonoma			oursessation in the state of th	Sec. 5	T. 11N	R. 9W	B.&M. M.D.
			property or sec			enter line.)			······································	Elevation 1723'	n of groun	nd above/bel	ow sea level
Latitude/Lon	gitude (if kr	nown)	Latitud	 de:		Longitud	 de:		<u> </u>				
Was the well	l directional	ly drilled?	⊠ Yes [No	If yes, sh	now coordinate:		pth.	1377' North	and 805	' East f	rom surfa	ice
Commenced dr 01/14/09	rilling (date)		Total de	pth	True Vertical Depth	Plugged Depth			urements ta Floor F			Kelly Bus	shing
Completed drilli 06/10/09	ing (date)		10,82	5'	10,447'		Which is	s 30 '		f	eet abo	ve ground	
Commenced pr 09/02/09	roduction/injec	ction (date)	Junk		· · · · · · · · · · · · · · · · · · ·				AL MARKE	RS		DEPTH	
Name of pro- Franciscan	duction/inje	ction zone(s)											
													MICHIGAN CONTRACTOR OF THE STATE OF THE STAT
							Formati	on a	nd age at to	tal depth		Base of	fresh water
	STATIO	C TEST				מספפ	UCTION T	ECT	DATA				
DATE	i .	well head)			Total mass flow		OCTION		DATA	Ser	arator d	ata	
DAIL		ssure sig)	Sfc Pressure (psi)	Orific (Inche		Enthalpy (Btu/lb)	Temperature (°F)	8	Sfc Pressure (psi)	Temperat	ure S	team Rate (lbs/hr)	Water Rate (lbs/hr)
,	1,00	, ig/	(531)	(mone	.57 (155/11)	(Bidino)	113	+	(201)	(1)		(100711)	(100/11)
												us nepperature and the second second	·
Size of Casi	ing /ADI\	Top of Casin		******	AND CEMEN Weight of	ITING RECORI Grade and Type				ber of Sacks	e or	Tonis) of Cement
(inche		(feet)	(feet)		Casing (lbs/ft)	of Casing	Drilled (inches	i	1	Feet of Ce			Annulus (feet)
20"		Surface	760'	8	94	J-55/K-55	26"		253 BBLS	3		Surfac	се
13 3/8"		Surface	5009'	16	68/72	K-55/N-80	17 1/2"	***************************************	724 BBLS	3		Surfac	ce
9 5/8"		4793'	7492'		43.5/47	L-80	12 1/4"		235 BBLS	3		4793	
7" *7"		Surface 6500'	6519' 10,825'		29 26, 29, 32	13CR-L80 13CR-L80	9 5/8" c 8 1/2"	sg	N/A 8 1/8", 35	.5 Recept	tacle	6473'-	-6535'
		10,825' with	e, top, bottom, ¡ ı .25" X 2.5" sid	ots, 6 R	lows, 12 slo	ts/ft	ng of perfor	atior	ns, and meth	nod.)			
Logs/surveys Directional		⊠ Yes 7' - 10,392'	□ No If yo	es, list t	type(s) and d	epth(s).							
			on 3, of the <i>Pub</i> e thereon, so fa						is a comple	ete and co	orrect re	ecord of th	e present
Name Marc W. Ste	effen							Titl S.	^ :	Ins 1	-her v	nen	
Address 1 0350 Soc ra	ates Mine F	Road	anna an	dee he and deeper deep he had a head and a			1	City	y/State ddletown, C				Zip Code)5461
Telephone 707-6102			<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	***************************************	Signature	JS64		····		:	Date ('9/	16119	>
E-Mail marc@calpi	ne.com				Fax 707-431-	6203				· · · · · · · · · · · · · · · · · · ·	<u></u>	anataria di dina dikarana Sari	





Well ID: Aidlin #12

Field: Geysers

Calpine

Well Name: Aidlin #12

Operator:

Operator

AFE Nos: API No:

Working Interest:

Spud Date:

Location:

Reports for 00:00 on date shown

221540

07-Jan-09 **Current Depth (ft):** 69

Hole Drilled (ft):

Ave ROP:

Sect: 32 Town: 12 N Rng: 9 W County: Sonoma State: CA

Current Ops:

Rig idled while waiting on daylight.

Operation Summary:

Prepared to and lowered derrick, unsntrung blocks. Cleaned mud pits, unlugged electrical wires, in

preparation for rig move. (20 hrs)

Rig idled while waiting on daylight. (4 hrs)

Comments:

Prepared to and lowered derrick, unsntrung blocks. Cleaned mud pits, unlugged

electrical wires, in preperation for rig move.

Mud Data:

None None

Surveys:

Daily Costs (\$):

32,305

Well Costs (\$):

32.305

Drilling Days:

Completion Days: 1

Workover Days:

0

0

08-Jan-09

Current Depth (ft):

69

Hole Drilled (ft):

Ave ROP:

Current Ops: Rig idled while waiting on daylight.

Operation Summary:

Rig idled while waiting on daylight. (6.5 hrs)

Tailboard all personel. (0.5 hrs) Began to load out rig. (12 hrs)

Rig idled while waiting on daylight. (5 hrs)

Comments:

Rig idled while waiting on daylight. Tailboard all personel. Began to load out rig and

transport to the Aidlin # 12 location. Rig idled waiting on daylight.

Mud Data:

Surveys:

None

26,600

Well Costs (\$):

58,905

Drilling Days:

Completion Days: 2

Workover Days:

0

09-Jan-09

Current Depth (ft): **Current Ops:**

Daily Costs (\$):

69

Hole Drilled (ft):

Ave ROP:

Rig idled while waiting on daylight.

Operation Summary:

Rig idled while waiting on daylight. (6.5 hrs)

Tailboard all personel. (0.5 hrs)

Continued to load out rig and transport to Aidlin # 12. (12 hrs)

Rig idled while waiting on daylight. (5 hrs)

Comments:

Rig idled while waiting on daylight. Tailboard all personel. Continued to load out rig and

transport to Aidlin #12. Rig idled while waiting on daylight.

Mud Data:

None

Surveys:

None

Well Costs (\$):

85,505

Daily Costs (\$): **Drilling Days:**

26,600 3

Completion Days:

0 Workover Days: 0

10-Jan-09

Current Depth (ft):

Ave ROP:

Hole Drilled (ft):

Current Ops:

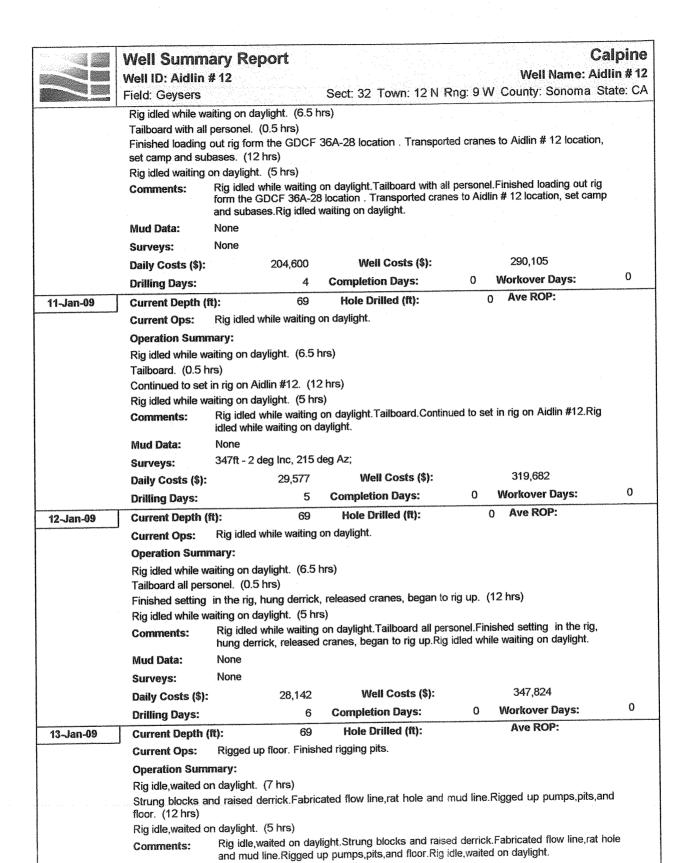
Rig idled while waiting on daylight.

Operation Summary:

RIMBase

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Printed: 16:26 10-Sep-09



Mud Data:

None

	Well Summ		port				Calpir
	Well ID: Aidlin	#12		0.40 C	O.1	Well Name: A	
	Field: Geysers	**************************************		Sect: 32 Town: 12 N F	≺ng: 9 v	V County: Sonoma	State: C
	Surveys:	None					
	Daily Costs (\$):		43,666	Well Costs (\$):		391,490	
	Drilling Days:		7	Completion Days:	0.	Workover Days:	0
14-Jan-09	Current Depth (•	69	Hole Drilled (ft):		0 Ave ROP:	
	Current Ops:	pumps ki		p drilling tools.Drilled from 66	5' to 98'.T	roubleshot scr for mud	
	Operation Sumr	nary:					
	Set in and welde	-	•	ind lug pumps and pits. (8 h ow line.Rig on company tim	•	00 1/14/09.Mixed mud.	(8)
	hrs) Made un kelly ar	nd etandnir	na Pickad un	drilling tools,bails,and elava	tore (8	hre)	
	Comments:	Rigged up	o floor,rotary or,made up floor	chain kelly hose, and lug pum w line.Rig on company time (Picked up drilling tools, bails,	ps and p @ 08:00	oits.Set in and welded 1/14/09.Mixed mud.Mad	de
	Mud Data:	MW: 8.4	Viscosity: 5	3 Filtrate:			
	Surveys:	None	•				
	Daily Costs (\$):		47,284	Well Costs (\$):		438,774	
	Drilling Days:		8	Completion Days:	0	Workover Days:	0
15-Jan-09	Current Depth (*)·	488	Hole Drilled (ft):	41:		22.6
		-,-		11010 2011104 (14)	• • •	-	
	Current Ons:	Drilled fro	m 488' to 620)'			
	Current Ops:		m 488' to 620	у.			
	Operation Sumn	nary:	m 488' to 620	y .			
	Operation Summ	nary: hrs)					
	Operation Sumn Made up bha. (3 Drilled with mud r	nary: hrs) notor from	66' to 90'. (1	l.5 hrs)	nnsul and	tser (2 hrs)	
	Operation Summ Made up bha. (3 Drilled with mud i Mud pumps stop	nary: hrs) notor from ped operat	66' to 90'. (1		onsul and	d scr. (2 hrs)	
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16-Jan-09	Operation Summ Made up bha. (3 Drilled with mud in Mud pumps stop Drilled from 90' to Surveyed @ 347 Drilled from 437' Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days: Current Ops: Operation Summ Drilled 26" hole w Circulated and su Wiped hole to 66' Comments: Mud Data:	hrs) notor from ped operate 437'. (15'. (0.5 hrs) to 488'. (2'. Made up it operating, 437'. Surve MW: 8.7 None Tripped in broke while hary: ith mud mount in the mud mount in t	66' to 90'. (1 ing,troublesh hrs) 2 hrs) bha.Drilled wit troubleshot cleyed @ 347'.1 Viscosity: 44 96,998 9 775 hole to 775'. e breaking out of from 488 690'. (1 hrs) ' hole with mud hole to 66'. Viscosity: 47	th mud motor from 66' to 90'. ontrol wires in drillers control wires in drillers consul Drilled from 437' to 488'. B Filtrate: 18 Well Costs (\$): Completion Days: Hole Drilled (ft): Circulated for casing. Tripped at monel. Waited on spare ton 'to 775'. (21 hrs) and motor from 488' to 775'. Circulated: 15	Mud pun and scr. 0 283 d out of h	nps stopped Drilled from 90' to 535,772 Workover Days: 7 Ave ROP: ole for casing.Tong jaw g 3.	13.7
l6-Jan-09	Operation Summ Made up bha. (3 Drilled with mud in Mud pumps stop Drilled from 90' to Surveyed @ 347 Drilled from 437' Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days: Current Depth (f Current Ops: Operation Summ Drilled 26" hole w Circulated and su Wiped hole to 66' Comments: Mud Data: Surveys:	hrs) notor from ped operate 437'. (15'. (0.5 hrs) to 488'. (2'. Made up it operating, 437'. Surve MW: 8.7 None Tripped in broke while hary: ith mud mount inveyed @ (2'. (2' hrs)) Drilled 26'. 690'. Wipe MW: 8.8	66' to 90'. (1 ing,troublesh hrs) 2 hrs) 2 hrs) 5 ha. Drilled wittroubleshot creyed @ 347'. Viscosity: 44 96,998 9 775 a hole to 775'. de breaking outor from 488 690'. (1 hrs) bit hole with mud hole to 66'. Viscosity: 47 55 deg Inc, 21	th mud motor from 66' to 90', ontrol wires in drillers control wires in drillers consul drilled from 437' to 488'. B Filtrate: 18 Well Costs (\$): Completion Days: Hole Drilled (ft): Circulated for casing Tripped at monel Waited on spare ton to 775'. (21 hrs) and motor from 488' to 775'. Circulated: 15 7 Filtrate: 15 7 deg Az;	Mud pun and scr. 0 283 d out of h	nps stopped Drilled from 90' to 535,772 Workover Days: 7 Ave ROP: ole for casing.Tong jaw g 3.	



Well ID: Aidlin #12

Calpine

Well Name: Aidlin #12

Field: Gevsers

Sect: 32 Town: 12 N Rng: 9 W County: Sonoma State: CA

Current Ops:

Rigged up to run stab in. Tripped in hole with stab in. Rigged up cementer head and

circulated casing.Cemented casing

Operation Summary:

Tripped in hole to 775'. (2 hrs)

Circulated hole clean for casing. (0.5 hrs)

Tripped out of hole. While breaking connection on bottom of monel rig tong body cracked and broke. (2

hrs)

Waited on replacement tongs. (6.5 hrs)

Laid down directional tools cleared floor and catwalk. (2 hrs)

Rigged up to run 20' casing. (3 hrs)

Ran 20" casing, (6.5 hrs)

Rigged down casing crew. (1 hrs)

Rigged up to run drill pipe stab in. (0.5 hrs)

Comments:

Tripped in hole to 775'. Circulated hole clean for casing. Tripped out of hole. While breaking connection on bottom of monel rig tong body cracked and broke. Waited on replacement tongs. Laid down directional tools, cleared floor and catwalk. Rigged up to run 20' casing.Ran 20" casing.Rigged down casing crew.Rigged up to run drill pipe stab

in

Mud Data:

None None

Surveys:

116,490

Well Costs (\$):

712.368

Daily Costs (\$): **Drilling Days:**

11

Completion Days:

O Workover Days: 0

18-Jan-09

Current Depth (ft):

775

Hole Drilled (ft):

Ave ROP:

Current Ops:

Set in bag and pincher nippled, nippled up bop.

Operation Summary:

Rigged up to run stinger. (1 hrs)

Tripped in hole with stinger picked up 15 joints drill pipe. (2.5 hrs)

Circulated casing rigged up Haliburton. (1.5 hrs)

Cemented casing.CIP 06:30.Rigged down Haliburton.Tripped out of hole with stinger. (3 hrs)

Waited on cement.Rigged up accumulator and rigged down flow line. (7 hrs)

Rough cut and lay down conductor and casing. Final cut casing and conductor. (4 hrs)

Set in and weld on wellhead flange. (3 hrs)

Set in dsa spool, cross over spool, and single gate. (2 hrs)

Comments:

Rigged up to run stinger. Tripped in hole with stinger picked up 15 joints drill pipe.Circulated casing,rigged up Haliburton.Cemented casing.CIP 06:30.Rigged down Haliburton. Tripped out of hole with stinger. Waited on cement. Rigged up accumulator and rigged down flow line.Rough cut and lay down conductor and casing.Final cut casing and conductor. Set in and weld on wellhead flange. Set in dsa spool, cross over

spool, and single gate.

Mud Data:

None None

Surveys:

167,764

Well Costs (\$):

880,132

Daily Costs (\$): **Drilling Days:**

12

Completion Days:

Workover Days:

19-Jan-09

Current Depth (ft):

Ave ROP:

Current Ops:

Hole Drilled (ft):

Drilled out cement, float, and shoe from 728' to 775'. Drilled from 775' to 825'.

Operation Summary:

Set in bag and pincher nipple, nipple up bop. (10 hrs)

Function test bop,tripped in hole,laid down 9 joints drill pipe (cement coated inside of pipe). (2 hrs)

Tested blind rams to 300 psi good test. (DOG witnessed). (0.5 hrs)

Laid down 9" monel galled threads.laid down 14 joints drill pipe (cement coated inside of pipe). (3.5

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RIMBase

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0

	Well Summ Well ID: Aidlin		port			Well Name:	Calpine
	Field: Geysers			Sect: 32 Town: 12 N	Rng: 9 V	그는 그는 그리고 있다면 한 사람들이 바라가 하다.	
	hrs)						<u> </u>
	•			tor,tripped in hole to 500°.	(6 hrs)		
				psi good test. (1 hrs)			
	Tripped in hole,ta		•		tion took ho	n tripped in hele laid :	down O
	Comments:	joints drill (DOG wit (cement of hole to 50	pipe (cement nessed) Laid o oated inside o	nipple nipple up bop.Functicoated inside of pipe). Testlown 9" monel galled threat fippe). Made up 17 1/2" bit motor, tested bop bag to 328'.	ted blind ra ids,laid dov it and veriti	ams to 300 psi good to wn 14 joints drill pipe rak mud motor,tripped	est.
	Mud Data:	MW: 8.9	Viscosity: 50	Filtrate: 17			
	Surveys:	None					
	Daily Costs (\$):		138,375	Well Costs (\$):		1,018,507	
	Drilling Days:		13	Completion Days:	0	Workover Days:	0
20-Jan-09	Current Depth (f	t):	1,100	Hole Drilled (ft):	325	Ave ROP:	14.8
	Current Ops:	Drilling ah	ead at 1200'.				
	Operation Sumn	nary:					
	Cleaned out float	-	nd cement to	775'. (2 hrs)	÷		
	Drilled 17 1/2" ho	le with the	"Vertitrak" BH	IA hole from 775' to 110	0'. (22 hrs)	
	Comments:		out float at 728 n 775' to 1100'	3' and cement to 775'.Drill	led 17 1/2"	hole with the "Vertitr	ak"
	Mud Data:	MW: 9.8	Viscosity: 42	Filtrate: 6.9			
	Surveys:	862ft - 2.2 deg Az;	deg Inc, 217	deg Az; 956ft - 0.6 deg ind	c, 217 deg	Az; 1052ft - 0.02 deg	inc, 0
	Daily Costs (\$):		68,167	Well Costs (\$):		1,086,674	
	Drilling Days:		14	Completion Days:	0	Workover Days:	0
21-Jan-09	Current Depth (fi	t):	1,410	Hole Drilled (ft):	310	Ave ROP:	14.1
	Current Ops:	Drilling ah	ead at 1500' .				
	Operation Summ	nary:					
	Drilled 17 1/2" ho	le with the	"Vertitrak" BH	IA hole from 1100' to 126	54'. (12 hr	s)	
				. Changed out head in m		` '	
				IA hole from 1264' to 14' the "Vertitrak" BHA hole		·	had
	Comments:	out union	in the mud line	e. Changed out head in mu from 1264' to 1410'.			
	Mud Data:	MW: 9.4	Viscosity: 38	Filtrate: 7			
	Surveys:			deg Az; 1240ft - 0.02 deg g Inc, 0 deg Az;	inc, 0 deg	Az; 1335ft - 0.04 deg	Inc, 0
	Daily Costs (\$):		76,304	Well Costs (\$):		1,162,978	
	Drilling Days:		15	Completion Days:	0	Workover Days:	0
22-Jan-09	Current Depth (fi	t):	1,618	Hole Drilled (ft):	208	Ave ROP:	10.1
	Current Ops:	Drilling ah	ead at 1670.				
	Operation Summ	ary:					
	Drilled 17 1/2" ho	le with the	"Vertitrak" BH	IA hole from 1410' to 150	35'. (12 hr	s)	
	Pulled out of the I		•	•			
	•		he rig to regail	n level subases. (2.5 hrs))		
	Ran in the hole. (Drilled 17 1/2" ho	•	"Vertitrak" BH	IA hole from 1535' to 16	18'. (8.5 hi	rs)	

Comments: Drilled 17 1/2" hole with the "Vertitrak" BHA hole from 1410 to 1535'.Pulled out of the

	Well Summ Well ID: Aidlin Field: Geysers	nary Report #12	Sout 22 Tayin 42 N	D 0.14	Well Name:	
	rield. Geysels	hole to the shoe.Jacke	Sect: 32 Town: 12 N ed up the front end of the rig le with the "Vertitrak" BHA	to regain I	evel subases.Ran in	<u> </u>
	Mud Data:	MW: 9.4 Viscosity: 4		noie irom i	535 W 1516.	
	Surveys:		0 deg Az; 1620ft - 0.11 deg	inc. 0 dea	Az:	
	Daily Costs (\$):		Well Costs (\$):	,	1,237,181	
	Drilling Days:	16	Completion Days:	0	Workover Days:	0
23-Jan-09	Current Depth (Hole Drilled (ft):	207		8.6
	Current Ops:	Drilling ahead at 1885'	•			
	Operation Sumi	mary:				
	Drilled 17 1/2" he		BHA hole from 1618' to 182 h the "Vertitrak" BHA hole f			
	Mud Data:	MW: 9.7 Viscosity: 4	4 Filtrate: 6.4			
	Surveys:	•	0 deg Az; 1811ft - 0.2 deg ir	nc, 0 deg A	z; ·	
	Daily Costs (\$):	68,564	Well Costs (\$):		1,305,745	
	Drilling Days:	17	Completion Days:	0	Workover Days:	0
24-Jan-09	Current Depth (ft): 2,080	Hole Drilled (ft):	255		10.6
	Current Ops:	Drilling ahead at 2126				
	Operation Sumr	nary:				
	•		3HA hole from 1825' to 208	30'. (24 hrs	s)	
	Comments:	Drilled 17 1/2" hole wit	h the "Vertitrak" BHA hole f	rom 1825' t	to 2080'.	
	Mud Data:	MW: 9.5 Viscosity: 4	4 Filtrate: 6.3			
	Surveys:	1906ft - 0.011 deg Inc,	0 deg Az; 2001ft - 0.08 deg	Inc, 0 deg	Az;	
	Daily Costs (\$):	58,416	Well Costs (\$):		1,364,161	
	Drilling Days:	18	Completion Days:	0	Workover Days:	0
25-Jan-09	Current Depth (ft): 2,142	Hole Drilled (ft):	62	Ave ROP:	8.3
	Current Ops:	Drilling ahead at 2220				
	Operation Summ	nary:				
			HA hole from 2080' to 212	, ,		
		hole.Made up bit # 3. h 08' to 2126'. (10.5 hrs)	Ran in the hole. Tagged tigh	nt hole at 1	008". (6 hrs)	
			HA hole from 2126' to 214	l2'. (1.5 hr	s)	
	Comments:	Drilled 17 1/2" hole with hole.Made up bit # 3. F	h the "Vertitrak" BHA hole f Ran in the hole. Tagged tigh ole with the "Vertitrak" BHA	rom 2080' t t hole at 10	to 2126'.Pulled out of 108'.Reamed from 10	
	Mud Data:	MW: 9.5 Viscosity: 4	4 Filtrate: 5.8			
	Surveys:	2096ft - 0.15 deg Inc, () deg Az;			
	Daily Costs (\$):	109,220	Well Costs (\$):		1,473,381	
	Drilling Days:	19	Completion Days:	0	Workover Days:	0
26-Jan-09	Current Depth (f	t): 2,327	Hole Drilled (ft):	185	Ave ROP:	11.2
	Current Ops:	shoe. Built mud volume	f the hole. Stood back "Verti e.	itrak" tools.	Ran in the hole to the	ne .
	Operation Sumn	-				
	2312', aprox 100	bph. (15.5 hrs)	BHA hole from 2142' to 232	20'. Started	I lesing circulation a	t
		hole to the shoe. (1.5 h in pits. (2.5 hrs)	irs)			



Well ID: Aidlin #12

Well Name: Aidlin #12

Calpine

Field: Gevsers

Sect: 32 Town: 12 N Rng: 9 W County: Sonoma State: CA

Ran in the hole, tagged tight hole at 2275'. (1 hrs)

Reamed from 2275' to 2320', losing aprox 100 bph of mud. (0.5 hrs)

Drilled 17 1/2" hole with the "Vertitrak" BHA hole from 2320' to 2327' losing aprox 100 bph of mud. (1

hrs)

Pulled out of the hole. (2 hrs)

Comments:

Drilled 17 1/2" hole with the "Vertitrak" BHA hole from 2142' to 2320'. Started losing circulation at 2312', aprox 100 bph. Pulled out of the hole to the shoe. Built mud volume in pits.Ran in the hole, tagged tight hole at 2275' Reamed from 2275' to 2320', losing aprox 100 bph of mud. Drilled 17 1/2" hole with the "Vertitrak" BHA hole from 2320' to

2327' losing aprox 100 bph of mud. Pulled out of the hole.

Mud Data:

MW: 9.5 Viscosity: 45 Filtrate: 5.2

Survevs:

2191ft - 0.13 deg Inc, 0 deg Az; 2286ft - 0.18 deg Inc, 0 deg Az;

1,567,352

Daily Costs (\$): **Drilling Days:**

93,971 20

Well Costs (\$): **Completion Days:**

Workover Days:

0

27-Jan-09

Current Depth (ft):

2.327

Hole Drilled (ft):

Ave ROP:

Current Ops:

Made up bha,tripped in hole tagged stringer @ 2022'. Cleaned out stringer @ 2022' circulated out thick mud. Slid in hole tagged cement @2232'. Ceaned out cement

Operation Summary:

Tripped out of hole with bha. (2 hrs)

Tripped in hole with drill pipe to 757'. Mixed mud. (2 hrs)

from 2232' to 2284'.

Tripped in hole tagged cement @ 2318', tripped out of hole to 757'. (2 hrs)

Laid down 12 joints drill pipe, tripped in hole to 757'. (2.5 hrs)

Waited on Haliburton. (7 hrs)

Rigged up Haliburton, tripped in hole to 2317'. Set plug #1 108 lf, cip 17:30. (2 hrs)

Tripped out of hole to 757', cleared pipe. (1.5 hrs)

Waited on cement. Checked for fluid loss(no loss). (2.5 hrs)

Tripped out of hole with drill pipe. (0.5 hrs)

Cleared floor, changed elavators, tripped in hole with bha. (2 hrs)

Comments:

Tripped out of hole with bha. Tripped in hole with drill pipe to 757'. Mixed mud. Tripped in hole tagged cement @ 2318',tripped out of hole to 757'. Laid down 12 joints drill pipe tripped in hole to 757'. Waited on Haliburton Rigged up Haliburton, tripped in hole to 2317'. Set plug #1 108 If,cip 17:30. Tripped out of hole to 757', cleared pipe. Waited on cement.Checked for fluid loss(no loss).Tripped out of hole with drill pipe.Cleared

floor changed elavators tripped in hole with bha.

Mud Data:

MW: 9.2 Viscosity: 43 Filtrate: 9.2

Surveys:

90,799

Well Costs (\$):

1,658,151

Drilling Days:

21

Completion Days:

Workover Days:

0

28-Jan-09

Current Depth (ft):

Daily Costs (\$):

Ave ROP:

12.5

Hole Drilled (ft):

2.421

Current Ops:

set cement plug #2 162 linear feet cip 00:30. Tripped out of hole laid down 12 joints drill pipe Repaired cathead on drawworks. Filled hole 12 barrels to fill. Began making up bha.

Operation Summary:

Tripped in hole tagged cement stringer @ 2022'. (2.5 hrs)

Circulated out thick mud. Slid in hole cleaning out stringers and reaming from 2022' to 2232'. Tagged hard cement @ 2232'. (3 hrs)

Cleaned out cement from 2232' to 2327'. Circulated and conditioned mud checked for loss. (3 hrs) Drilled 17 1/2" hole from 2327' to 2421' Lost 25 bph @ 2345' pumped sweeps built volume lost 60 bph @ 2421'. (7.5 hrs)

Tripped out of hole with bha. (5 hrs)

Tripped in hole with open ended drill pipe to 2400'. (2 hrs)

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Well ID: Aidlin # 12

Well Name: Aidlin #12

Field: Gevsers

Sect: 32 Town: 12 N Rng: 9 W County: Sonoma State: CA

Circulated and rigged up Haliburton, lost 50 barrels while circulating. (1 hrs)

Comments:

Tripped in hole,tagged cement stringer @ 2022'. Circulated out thick mud. Slid in hole cleaning out stringers and reaming from 2022' to 2232'. Tagged hard cement @ 2232'. Cleaned out cement from 2232' to 2327'. Circulated and conditioned mud checked for loss. Drilled 17 1/2" hole from 2327 to 2421' Lost 25 bph @ 2345' pumped sweeps built volume lost 60 bph @ 2421'. Tripped out of hole with bha. Tripped in hole with open ended drill pipe to 2400'. Circulated and rigged up Haliburton, lost 50 barrels while

circulating.

Mud Data:

MW: 9 Viscosity: 44 Filtrate: 9.5

Surveys:

2380ft - 0.05 dea Inc. 0 dea Az:

Daily Costs (\$):

100,152

Well Costs (\$):

1,758,303

Drilling Days:

Completion Days:

Workover Days:

0

Calpine

29-Jan-09

Current Depth (ft):

2.545 Drilled from 2545' to 2630'.

Hole Drilled (ft):

Ave ROP: 124

13.8

Current Ops: Operation Summary:

Set plug #2 @ 2400' 162 Lin/ft cip 00:30. (0.5 hrs)

Tripped out to 1644' cleared pipe. (1 hrs)

Removed breakout cathead from drawworks. (1 hrs)

Tripped out of hole laid down 12 joints drill pipe, serviced rig. (2.5 hrs)

Made up bha. (1 hrs)

Repaired and reinstalled breakout cathead to drawworks. (1 hrs)

Continued making up bha, tripped in hole and tagged cement sringer @1989'. (2.5 hrs)

Cleanded out stringers and reamed from 1989' to 2280'. Tagged solid cement @2280'. (3.5 hrs)

Cleaned out cement from 2280' to 2421'. (2 hrs)

Drilled 17 1/2" hole with VertiTrak from 2421' to 2545'. (9 hrs)

Comments:

Set plug #2 @ 2400' 162 Lin/ft cip 00:30. Tripped out to 1644' cleared pipe. Removed breakout cathead from drawworks. Tripped out of hole laid down 12 joints drill pipe, serviced rig. Made up bha. Repaired and reinstalled breakout cathead to drawworks. Continued making up bha, tripped in hole and tagged cement sringer @1989'.Cleanded out stringers and reamed from 1989' to 2280'.Tagged solid cement @2280'.Cleaned out cement from 2280' to 2421'.Drilled 17 1/2" hole with VertiTrak from

2421' to 2545'.

Mud Data:

MW: 9 Viscosity: 40 Filtrate: 10

Surveys:

2473ft - 0.16 deg Inc, 0 deg Az; 2568ft - 0.11 deg Inc, 0 deg Az;

Daily Costs (\$):

106,985

Well Costs (\$):

1,865,288

0

Drilling Days:

23

Completion Days:

Ave ROP:

Workover Days:

30-Jan-09

Current Depth (ft):

2,711

Hole Drilled (ft):

166

13.8

Current Ops: Drilled from 2711' to 2761'.

Operation Summary:

Drilled 17 1/2" hole with VertiTrak from 2545' to 2661'. (8.5 hrs)

Lost oil pressure to steering fins in VertiTrak,tripped out of hole. (6.5 hrs)

Made up new VertiTrak and tripped in hole to 2589'. (5 hrs)

Reamed from 2589' to 2661'. (0.5 hrs) Drilled from 2661' to 2711'. (3.5 hrs)

Comments:

Drilled 17 1/2" hole with VertiTrak from 2545' to 2661'.Lost oil pressure to steering fins in

VertiTrak,tripped out of hole.Made up new VertiTrak and tripped in hole to

2589'.Reamed from 2589' to 2661'.Drilled from 2661' to 2711'.

Mud Data:

MW: 9 Viscosity: 46 Filtrate: 6.6

Surveys:

2631ft - 0.7 deg Inc, 0 deg Az; 2724ft - 0.06 deg Inc, 0 deg Az;

Daily Costs (\$):

64 963

Well Costs (\$):

1,930,251



Well ID: Aidlin #12

Field: Gevsers

Calpine

Well Name: Aidlin #12

Sect: 32 Town: 12 N Rng: 9 W County: Sonoma State: CA

Drilling Days:

24

Completion Days:

Workover Days:

31-Jan-09

Current Depth (ft):

2,850

Hole Drilled (ft):

Ave ROP: 139

8.7

Current Ops:

Drilled from 2850' to 2893'.

Operation Summary:

Drilled 17 1/2" hole with VertiTrak from 2711' to 2763'. Cone locked up not allowing weight to be put on

bit (7.5 hrs) Tripped out of hole, removed bit. (3.5 hrs)

Made up new bit, tripped in hole to 2703'. (4 hrs)

Reamed from 2703' to 2763'. (0.5 hrs) Drilled from 2763' to 2850'. (8.5 hrs)

Comments:

Drilled 17 1/2" hole with VertiTrak from 2711' to 2763'. Cone locked up not allowing

weight to be put on bitTripped out of hole removed bit. Made up new bit, tripped in hole to

2703'.Reamed from 2703' to 2763'.Drilled from 2763' to 2850'.

Mud Data:

MW: 9 Viscosity: 50 Filtrate: 5.8

Surveys:

2820ft - 0 deg Inc, 0 deg Az;

112,876

Well Costs (\$):

2.043.127

Workover Days:

Drilling Days:

Daily Costs (\$):

25

Completion Days:

0

n

01-Feb-09

Current Depth (ft):

3.056

Hole Drilled (ft):

Ave ROP: 206

86

Drilled from 3056' to 3102'.

Current Ops:

Operation Summary: Drilled 17 1/2" hole with VertiTrak from 2850' to 3056'. (24 hrs)

Comments:

Drilled 17 1/2" hole with VertiTrak from 2850' to 3056'.

Mud Data:

MW: 9.1 Viscosity: 52 Filtrate: 5.1

Surveys: Daily Costs (\$): 2915ft - 0.13 deg inc, 0 deg Az; 3010ft - 0.06 deg inc, 0 deg Az;

2.104.175

Drilling Days:

61.048 26

Drilled from 3251' to 3300'.

Completion Days:

Well Costs (\$):

Workover Days:

n

Current Depth (ft):

3,251

02-Feb-09

Hole Drilled (ft):

Ave ROP: 195

8.1

Current Ops:

Operation Summary:

Comments:

Drilled 17 1/2" hole with VertiTrak from 3056' to 3251'. (24 hrs) Drilled 17 1/2" hole with VertiTrak from 3056' to 3251'.

Mud Data:

MW: 9.1 Viscosity: 48 Filtrate: 4.7

Surveys: Daily Costs (\$):

59.751

3105ft - 0.18 deg Inc, 0 deg Az; 3199ft - 0.09 deg Inc, 0 deg Az; Well Costs (\$):

2,163,926

Ave ROP:

Drilling Days: Current Depth (ft): 27

Completion Days: Hole Drilled (ft): Workover Days:

164

8.0

03-Feb-09

Comments:

3,415 Drilling ahead at 3460'.

Current Ops: Operation Summary:

Drilled 17 1/2" hole with VertiTrak from 3251' to 3314'. (7.5 hrs)

Made electrical repairs in SCR house. (2 hrs)

Drilled 17 1/2" hole with VertiTrak from 3314' to 3341'. (3 hrs)

Repaired mud pump pressure relieve valve. (1.5 hrs)

Drilled 17 1/2" hole with VertiTrak from 3314' to 3415'. No mud loss. (10 hrs)

Drilled 17 1/2" hole with VertiTrak from 3251' to 3314'. Made electrical repairs in SCR house. Drilled 17 1/2" hole with VertiTrak from 3314' to 3341'. Repaired mud pump pressure relieve valve. Drilled 17 1/2" hole with VertiTrak from 3314 to 3415'. No mud

loss

	Well Summ	nary Re	port			C	alpin
	Well ID: Aidlin	#12				Well Name: Ai	idlin#1
	Field: Geysers			Sect: 32 Town: 12 N	Rng: 9 W	/ County: Sonoma S	State: C
	Mud Data:	MW: 9.2	Viscosity: 4	8 Filtrate: 4.8			
	Surveys:	3294ft - 0	.4 deg Inc, 0	deg Az; 3389ft - 0.42 deg In	c, 0 deg A	z ;	
	Daily Costs (\$):		74,456	Well Costs (\$):		2,238,381	
	Drilling Days:		28	Completion Days:	0	Workover Days:	0
14-Feb-09	Current Depth (ft):	3,514	Hole Drilled (ft):	99		6.6
National Control of the Control of t	Current Ops:	Continued	to run in the	hole. Reamed tight hole from 2779' to 3000' at		2190'. Ran in the hole	
	Operation Sumr	nary:					
	Drilled 17 1/2" ho	ole with Ver	tiTrak from 3	415' to 3514'. No mud loss	. (15 hrs)		
	Pulled out of the	hole, due t	o slow penet	ration rate. Removed bit #	4. (4 hrs)		
	. •			sub. Ran in the hole. (5 hrs	•		
	Comments:	hole, due		n VertiTrak from 3415' to 35 ration rate. Removed bit # 4 nole.			
	Mud Data:	MW: 9.1	Viscosity: 47	7 Filtrate: 5.2			
	Surveys:	3484ft - 0.	.22 deg inc, 0	deg Az;			
	Daily Costs (\$):		108,939	Well Costs (\$):		2,347,320	
	Drilling Days:		29	Completion Days:	0	Workover Days:	0
5-Feb-09	Current Depth (ft):	3,612	Hole Drilled (ft):	98	Ave ROP:	9.8
	Current Ops:	•	ead at 3670'.				
	Operation Summ	•					
	Continued to run	-	. (1.5 hrs)				
	Reamed tight hol			0.5 hrs)			
	Ran in the hole to	o 2779'. (1	hrs)				
	المط فالمالية أممسمما	le from 277	9' to 3514'. (11 hrs)			
			•				
		ole with Ver	tiTrak from 3	514' to 3612'. No mud loss			
		ole with Ver Continued 2779'.Rea	tiTrak from 3	hole.Reamed tight hole from e from 2779' to 3514'.Drilled	n 2054' to	2150'.Ran in the hole to ole with VertiTrak from	o
	Drilled 17 1/2" ho	ole with Ver Continued 2779'.Rea 3514' to 36	tiTrak from 3 to run in the med tight hol 612'. No mud	hole.Reamed tight hole from e from 2779' to 3514'.Drilled	n 2054' to	2150'.Ran in the hole to ole with VertiTrak from)
	Drilled 17 1/2" ho Comments:	cle with Ver Continued 2779' Rea 3514' to 30 MW: 9.1	tiTrak from 3 to run in the med tight hol 612'. No mud	hole.Reamed tight hole from e from 2779' to 3514'.Drilled loss. 3 Filtrate: 5.3	n 2054' to	2150'.Ran in the hole to ole with VertiTrak from)
	Drilled 17 1/2" ho Comments: Mud Data: Surveys:	cle with Ver Continued 2779' Rea 3514' to 30 MW: 9.1	tiTrak from 3 to run in the med tight hole 612'. No mud Viscosity: 48	hole.Reamed tight hole from e from 2779' to 3514'.Drilled loss. 3 Filtrate: 5.3	n 2054' to	2150'.Ran in the hole to ole with VertiTrak from 2,405,230)
	Drilled 17 1/2" ho Comments: Mud Data: Surveys: Daily Costs (\$):	cle with Ver Continued 2779' Rea 3514' to 30 MW: 9.1	tiTrak from 3 to run in the med tight hole 612'. No mud Viscosity: 48 02 deg Inc, 0 57,910	hole.Reamed tight hole from e from 2779' to 3514'.Drilled loss. 3 Filtrate: 5.3 deg Az; Well Costs (\$):	n 2054' to	ole with VertiTrak from 2,405,230	0
6-Feb-09	Drilled 17 1/2" ho Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days:	ole with Ver Continued 2779'.Rea 3514' to 30 MW: 9.1 3580ft - 0.	tiTrak from 3 I to run in the med tight hol 612'. No mud Viscosity: 48 02 deg Inc, 0 57,910	hole.Reamed tight hole from e from 2779' to 3514'.Drilled loss. 3 Filtrate: 5.3 deg Az; Well Costs (\$): Completion Days:	n 2054' to i 17 1/2" h	2,405,230 Workover Days:	0
6-Feb-09	Drilled 17 1/2" ho Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days: Current Depth (f	Continued 2779' Rea 3514' to 36 MW: 9.1 3580ft - 0.	tiTrak from 3 I to run in the med tight hol 612'. No mud Viscosity: 48 02 deg Inc, 0 57,910 30 3,814	hole.Reamed tight hole from e from 2779' to 3514'.Drilled loss. 3 Filtrate: 5.3 deg Az; Well Costs (\$):	n 2054' to i 17 1/2" h	2,405,230 Workover Days:	0
6-Feb-09	Drilled 17 1/2" ho Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days: Current Depth (1	cole with Ver Continued 2779'.Rea 3514' to 30 MVV: 9.1 3580ft - 0.	tiTrak from 3 I to run in the med tight hol 612'. No mud Viscosity: 48 02 deg Inc, 0 57,910	hole.Reamed tight hole from e from 2779' to 3514'.Drilled loss. 3 Filtrate: 5.3 deg Az; Well Costs (\$): Completion Days:	n 2054' to i 17 1/2" h	2,405,230 Workover Days:	0
6-Feb-09	Drilled 17 1/2" ho Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days: Current Depth (f Current Ops:	cole with Ver Continued 2779'.Rea 3514' to 30 MW: 9.1 3580ft - 0.	tiTrak from 3 I to run in the med tight hole 612'. No mud Viscosity: 48 02 deg Inc, 0 57,910 30 3,814 ead at 3865'.	hole.Reamed tight hole from e from 2779' to 3514'.Drilled loss. 3 Filtrate: 5.3 deg Az; Well Costs (\$): Completion Days: Hole Drilled (ft):	n 2054' to i 17 1/2" h 0 202	2,405,230 Workover Days:	0
6-Feb-09	Drilled 17 1/2" ho Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days: Current Depth (tour of the comment of the	cole with Ver Continued 2779'.Rea 3514' to 30 MW: 9.1 3580ft - 0.	tiTrak from 3 I to run in the med tight hole 612'. No mud Viscosity: 48 02 deg Inc, 0 57,910 30 3,814 ead at 3865'.	hole.Reamed tight hole from e from 2779' to 3514'.Drilled loss. 3 Filtrate: 5.3 deg Az; Well Costs (\$): Completion Days: Hole Drilled (ft):	0 2024 hrs)	ole with VertiTrak from 2,405,230 Workover Days: Ave ROP:	0
6-Feb-09	Drilled 17 1/2" ho Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days: Current Depth (former of the current of the c	cole with Ver Continued 2779' Rea 3514' to 36 MW: 9.1 3580ft - 0.	tiTrak from 3 I to run in the med tight holo 12'. No mud Viscosity: 48 02 deg Inc, 0 57,910 30 3,814 ead at 3865'. tiTrak from 3 1/2" hole with	hole.Reamed tight hole from e from 2779' to 3514'.Drilled loss. 3 Filtrate: 5.3 deg Az; Well Costs (\$): Completion Days: Hole Drilled (ft): 612' to 3814'. No mud loss a VertiTrak from 3612' to 381	0 2024 hrs)	ole with VertiTrak from 2,405,230 Workover Days: Ave ROP:	0
6-Feb-09	Drilled 17 1/2" ho Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days: Current Depth (f Current Ops: Operation Summ Drilled 17 1/2" ho Comments: Mud Data:	cole with Ver Continued 2779'. Rea 3514' to 36 MW: 9.1 3580ft - 0. Tit): Drilling ahe nary: De with Ver Drilled 17 MW: 9.1	tiTrak from 3 I to run in the med tight holo 12'. No mud Viscosity: 48 02 deg Inc, 0 57,910 30 3,814 ead at 3865'. tiTrak from 3 1/2" hole with Viscosity: 47	hole.Reamed tight hole from e from 2779' to 3514'. Drilled loss. 3 Filtrate: 5.3 deg Az; Well Costs (\$): Completion Days: Hole Drilled (ft): 612' to 3814'. No mud loss of VertiTrak from 3612' to 3814'. Filtrate: 5.3	0 202 . (24 hrs)	ole with VertiTrak from 2,405,230 Workover Days: Ave ROP:	0
6-Feb-09	Drilled 17 1/2" ho Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days: Current Depth (to Current Ops: Operation Summer Drilled 17 1/2" ho Comments: Mud Data: Surveys:	cole with Ver Continued 2779'. Rea 3514' to 36 MW: 9.1 3580ft - 0. Tit): Drilling ahe nary: De with Ver Drilled 17 MW: 9.1	tiTrak from 3 I to run in the med tight holo 12'. No mud Viscosity: 48 02 deg Inc, 0 57,910 30 3,814 ead at 3865'. tiTrak from 3 1/2" hole with Viscosity: 47 07 deg Inc, 0	hole.Reamed tight hole from e from 2779' to 3514'. Drilled loss. 3 Filtrate: 5.3 deg Az; Well Costs (\$): Completion Days: Hole Drilled (ft): 612' to 3814'. No mud loss is VertiTrak from 3612' to 3814'. Filtrate: 5.3 deg Az; 3770ft - 0.06 deg little from 3770ft - 0.06 deg lit	0 202 . (24 hrs)	2,405,230 Workover Days: Ave ROP: d loss.	0
6-Feb-09	Drilled 17 1/2" ho Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days: Current Depth (forment Operation Summer Drilled 17 1/2" ho Comments: Mud Data: Surveys: Daily Costs (\$):	cole with Ver Continued 2779'. Rea 3514' to 36 MW: 9.1 3580ft - 0. Tit): Drilling ahe nary: De with Ver Drilled 17 MW: 9.1	tiTrak from 3 I to run in the med tight hole of 12'. No mud Viscosity: 48 02 deg Inc, 0 57,910 30 3,814 ead at 3865'. tiTrak from 3 1/2" hole with Viscosity: 47 07 deg Inc, 0 65,680	hole.Reamed tight hole from e from 2779' to 3514'. Drilled loss. 3 Filtrate: 5.3 deg Az; Well Costs (\$): Completion Days: Hole Drilled (ft): 612' to 3814'. No mud loss of VertiTrak from 3612' to 3814'. Filtrate: 5.3 deg Az; 3770ft - 0.06 deg lowell Costs (\$):	0 202 . (24 hrs) !4'. No mu	2,405,230 Workover Days: Ave ROP: d loss. Az; 2,470,910	8.4
	Drilled 17 1/2" ho Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days: Current Depth (forment Operation Summer Drilled 17 1/2" ho Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days:	cole with Ver Continued 2779'.Rea 3514' to 30 MW: 9.1 3580ft - 0. The color of the	tiTrak from 3 I to run in the med tight hole of 12'. No mud Viscosity: 48 02 deg Inc, 0 57,910 30 3,814 ead at 3865'. tiTrak from 3 1/2" hole with Viscosity: 47 07 deg Inc, 0 65,680 31	hole.Reamed tight hole from e from 2779' to 3514'.Drilled loss. 3 Filtrate: 5.3 deg Az; Well Costs (\$): Completion Days: Hole Drilled (ft): 612' to 3814'. No mud loss of VertiTrak from 3612' to 3814'. Filtrate: 5.3 deg Az; 3770ft - 0.06 deg for Well Costs (\$): Completion Days:	0 202 . (24 hrs) 14' No mu	2,405,230 Workover Days: Ave ROP: d loss. Az; 2,470,910 Workover Days:	0 8.4
6-Feb-09	Drilled 17 1/2" ho Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days: Current Depth (to Current Ops: Operation Summon Drilled 17 1/2" ho Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days: Current Depth (to Current Depth (to Comments)	cole with Ver Continued 2779'. Rea 3514' to 36 MW: 9.1 3580ff - 0. Ti): Drilling ahe mary: cole with Ver Drilled 17 MW: 9.1 3675ff - 0.	tiTrak from 3 I to run in the med tight holo 12'. No mud Viscosity: 48 02 deg Inc, 0 57,910 30 3,814 ead at 3865'. tiTrak from 3 1/2" hole with Viscosity: 47 07 deg Inc, 0 65,680 31 4,024	hole.Reamed tight hole from e from 2779' to 3514'. Drilled loss. 3 Filtrate: 5.3 deg Az; Well Costs (\$): Completion Days: Hole Drilled (ft): 612' to 3814'. No mud loss of VertiTrak from 3612' to 3814'. The loss of VertiTrak from 3612' to 3814'. Well Costs (\$): Completion Days: Hole Drilled (ft):	0 202 . (24 hrs) !4'. No mu	2,405,230 Workover Days: Ave ROP: d loss. Az; 2,470,910 Workover Days:	8.4
	Drilled 17 1/2" ho Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days: Current Depth (forment Operation Summer Drilled 17 1/2" ho Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days:	cole with Ver Continued 2779' Rea 3514' to 36 MW: 9.1 3580ft - 0. Tit): Drilling ahe nary: De with Ver Drilled 17 MW: 9.1 3675ft - 0.	tiTrak from 3 I to run in the med tight hole of 12'. No mud Viscosity: 48 02 deg Inc, 0 57,910 30 3,814 ead at 3865'. tiTrak from 3 1/2" hole with Viscosity: 47 07 deg Inc, 0 65,680 31	hole.Reamed tight hole from e from 2779' to 3514'. Drilled loss. 3 Filtrate: 5.3 deg Az; Well Costs (\$): Completion Days: Hole Drilled (ft): 612' to 3814'. No mud loss of VertiTrak from 3612' to 3814'. The loss of VertiTrak from 3612' to 3814'. Well Costs (\$): Completion Days: Hole Drilled (ft):	0 202 . (24 hrs) 14' No mu	2,405,230 Workover Days: Ave ROP: d loss. Az; 2,470,910 Workover Days:	0 8.4

	Well Summ Well ID: Aidlin Field: Geysers	•	ort	Sect: 32 Town: 12	N Rng: 9 W	Well Name: A	
	Comments:	Drilled 17 1/2	2" hole with	vertiTrak from 3814' to	4024'. No mu	d loss.	
	Mud Data:	MW-93 V	iscosity: 4	4 Filtrate: 5.2			
	Surveys:		-) deg Az; 3961ft - 0.09 de	en Inc. O den	А 7 -	
	7 .		•	<u>.</u>			
	Daily Costs (\$):		71,333	Well Costs (\$):		2,542,243	
	Drilling Days:		32	Completion Days:	0	Workover Days:	0
08-Feb-09	Current Depth (ft):	4,192	Hole Drilled (ft):	168	Ave ROP:	7.5
	Current Ops:	Drilling ahea	d at 4242'.				
	Operation Summ	mary:					
	Drilled 17 1/2" ho	ole with VertiT	rak from 4	024' to 4036. No mud lo	ss. (2 hrs)		
	Made repairs to I	mud pump # 1	. (0.5 hrs)			
	Drilled 17 1/2" ho	ole with VertiT	rak from	4036' to 4117'. No mud	loss. (10.5 h	rs)	
	Made repairs to	mud pump # 1	. (1 hrs)				
	Drilled 17 1/2" ho			4117' to 4192'. No mud	•		
	Comments:	pump # 1.Dr	illed 17 1/2	h VertiTrak from 4024' to 2" hole with VertiTrak from 1 Drilled 17 1/2" hole with	n 4036' to 41	17'. No mud loss.Made	9
	Mud Data:	MW: 9.5 V	iscosity: 4	4 Filtrate: 5.3			
	Surveys:	4055ft - 0.12	deg Inc, C) deg Az; 4150ft - 0.22 de	eg Inc, 0 deg	Az;	
	Daily Costs (\$):		63,057	Well Costs (\$):		2,605,300	
	Drilling Days:		33	Completion Days:	0	Workover Days:	0
09-Feb-09	Current Depth (4,338	Hole Drilled (ft):	146	Ave ROP:	8.1
75-1 CD-00	Current Ops:		•	mud motor assembly for			# 6.
	omicii ops.			lip and cut drilling line.		•	
	Operation Sumr	mary:					
	Drilled 17 1/2" ho	ole with VertiT	rak from	4192' to 4338'. No mud	loss. (18 hrs)	
	Pulled out of the			n penetration rate. (6 hr			
	Comments:			n VertiTrak from 4192' to n penetration rate.	4338'. No m	ud loss.Pulled out of th	е
	Mud Data:	MW: 9.3 V	iscosity: 4	4 Filtrate: 5.5			
	Surveys:	4244ft - 0.09	deg Inc, C) deg Az;	•		
	Daily Costs (\$):		95,453	Well Costs (\$):		2,700,754	
	Drilling Days:		34	Completion Days:	0	Workover Days:	0
10-Feb-09				Hole Drilled (ft):	62		7.8
10-7-60-05	Current Depth (•	4,400	• •	02		
	Current Ops:	Drilled from	4400 10 44	Ю9.			
	Operation Sumr	-					
	Laid down mud r				- , \		
	•			Tested mud motor. (4.5)	o nrs)		
	Cut and slipped						
	Tripped in hole to						
	Reamed from 19		•				
	Tripped in hole to	•	•				
	Reamed from 42			338' to 4400' (8 bre)			
				.338' to 4400'. (8 hrs) and stabalizer.Made up r	new hha trinne	ed in hole to 760' Teste	ed
	Comments:	mud motor.C	Cut and slig	oped drill line 53'. Tripped	in hole to 19	26'.Reamed from 1926 Filled 17 1/2" hole with	to

	Well Summ Well ID: Aidlin Field: Geysers		port	Sect: 32 Town: 12	2 N Rng: 9 W		Calpine : Aidlin # 12 na State: CA
	Mud Data:	MW: 9.3	Viscosity: 4	4 Filtrate: 5.5			
	Surveys:	4338ft - 0	.35 deg Inc, (deg Az;			
	Daily Costs (\$):		106,015	Well Costs (\$	5):	2,806,769	
	Drilling Days:		35	Completion Days:	0	Workover Days:	0
11-Feb-09	Current Depth (ft):	4,627	Hole Drilled (ft):	227	Ave ROP:	9.5
entrocouraceaninos con contrator con contrator con contrator se establica de la contrator de la contrator de l	Current Ops:	Drilled fro	m 4627' to 46	85' Well took 100 bbl o	drink @ 4660'.N	lo losses @ 06:00.	
	Operation Sumn	nary:					
	Drilled 17 1/2" ho	ole with Ver	tiTrak from 4	4400' to 4627'. (24 hrs	s)		
	Comments:	Drilled 17	1/2" hole with	VertiTrak from 4400'	to 4627'.		
	Mud Data:	MW: 9.6	Viscosity: 4	7 Filtrate: 5.1			
	Surveys:	4433ft - 0 deg Az;	.35 deg Inc, () deg Az, 4528ft - 0.26	deg Inc, 0 deg	Az; 4623ft - 0.26 de	g Inc, 0
	Daily Costs (\$):		57,601	Well Costs (\$	i):	2,864,370	
	Drilling Days:		36	Completion Days:	0	Workover Days:	0
12-Feb-09	Current Depth (t):	4,843	Hole Drilled (ft):	216	Ave ROP:	9.0
	Current Ops:	Drilled fro	m 4843' to 49	800°.			
	Operation Sumn	nary:					
	Drilled 17 1/2" ho	ole with Ver	tiTrak from 4	627' to 4843'. (24 hrs)		
	Comments:	Drilled 17	1/2" hole with	NertiTrak from 4627' t	o 4843'.		
	Mud Data:	MW: 9.8	Viscosity: 4	6 Filtrate: 6.7			
	Surveys:	4718ft - 0	.09 deg Inc, C	deg Az; 4843ft - 0.35	deg Inc, 0 deg	Az;	
	Daily Costs (\$):		60,272	Well Costs (\$):	2,924,642	
	Drilling Days:		37	Completion Days:	0	Workover Days:	0
13-Feb-09	Current Depth (1	t):	4,909	Hole Drilled (ft):	66	Ave ROP:	7.8
•	Current Ops:	Reamed f	rom 4454' to	4909'.Drilled from 4909)' to 4935'.		
	Operation Sumn	nary:					
	Drilled 17 1/2" ho decreased. (8.5		rtiTrak from 4	1843' to 4909'.Pump p	ressure increas	sed 150 psi and rop	•
	* *		_	e from 4636' to 4424'.	Removed bit.	(7.5 hrs)	
	Made up bit and			(6 hrs)			
	Reamed from 43		, ,	\			
	Tripped in hole fromments:			rs) ı VertiTrak from 4843' l	n 4909' Puma	nressure increased	150 nsi
	comments.	and rop do 4424'.Ren	ecreased.Trip noved bit.Mad	ped out of hole to check the up bit and tripped in om 4355' to 4454'.	k bit.Tight hole	from 4636' to	,
	Mud Data:	MW: 9.8	Viscosity: 42	2 Filtrate: 7.2			
	Surveys:	4876ft - 0.	18 deg Inc, 0	deg Az;			
	Daily Costs (\$):		63,777	Well Costs (\$):	2,988,419	
	Drilling Days:		38	Completion Days:	0	Workover Days:	0
14-Feb-09	Current Depth (f	t):	5,037	Hole Drilled (ft):	128	Ave ROP:	7.5
	Current Ops:	•	ut of hole,stra	pped out.Laid down Ve	rtiTrak.		
	Operation Sumn	nary:					
	Reamed from 44	54' to 4909 le with Ver	tiTrak from 4	909' to 5037'. (17 hrs))		

	Well Summ		port				Calpin
	Well ID: Aidlin	#12				Well Name:	Aidlin#1
	Field: Geysers			Sect: 32 Town: 121	N Rng: 9 W	County: Sonoma	State: C
	Tripped out of ho	le,strapped	out. (3 hrs)			* .	
	Comments:			4909'.Drilled 17 1/2" hole s up.Tripped out of hole,s		k from 4909' to	
	Mud Data:	MW: 9.8	Viscosity: 4	5 Filtrate: 6.8			
	Surveys:	4971ft - 0.	.26 deg Inc, 0	deg Az;			
	Daily Costs (\$):		70,084	Well Costs (\$):		3,058,503	
	Drilling Days:		39	Completion Days:	0	Workover Days:	0
15-Feb-09	Current Depth (f	PH:	5,037	Hole Drilled (ft):	······································	Ave ROP:	
	Current Ops:	•	le to 1500'.Tr	ipped in hole to 5037' Cir	culated and o	conditioned mud.Tripp	oed
	Operation Sumn	nary:					
	Tripped out of ho	le,laid dowr	n VertiTrak.	(7 hrs)			
	Made up bha and	d tripped in	hole,tight hol	e @3998'. (6 hrs)			
	Reamed from 39		, ,				
	Tripped in hole ,ti			hrs)			
	Reamed from 44						
	Circulated and co			down VertiTrak.Made up	hha and trin	ned in hole tight hole	
	Comments:	@3998'.R	eamed from	3998' to 4091'. Tripped in ed. and conditioned mud.			
	Mud Data:	MW: 9.5	Viscosity: 43	3 Filtrate: 7.1			
	Surveys:	None					
	Daily Costs (\$):		59,046	Well Costs (\$):		3,117,549	
	Drilling Days:		40	Completion Days:	0	Workover Days:	0
16-Feb-09	Current Depth (1	M1.	5,037	Hole Drilled (ft):		Ave ROP:	
10-1 00-00	Current Ops:	•	•	circulated @ 2700' and	3700'		
	ourrein ops.		to rair oading	0110411416			
	Operation Summ						
	Operation Summ	•	l in hole to 50	37' (3.5 hrs)			
	Wiped hole to 15	600'.Tripped		037'. (3.5 hrs)			
	Wiped hole to 15 Circulated and co	500'.Tripped onditioned r	mud. (1 hrs)				
	Wiped hole to 15 Circulated and co Tripped out of ho	500'.Tripped onditioned r ble,laid dow	mud. (1 hrs) n bit and stat		ools. (1 hrs)		
	Wiped hole to 15 Circulated and co Tripped out of ho Cleared floor,rem Rigged up Team	500'.Tripped onditioned r ole,laid down noved tongs casing and	mud. (1 hrs) n bit and stat s,picked up c I held safety	palizer. (6 hrs) pentralizers and casing to meeting. (3.5 hrs)	ools. (1 hrs)		
	Wiped hole to 15 Circulated and co Tripped out of ho Cleared floor,rem	500'.Tripped onditioned role, laid down noved tongs casing and ing, circulate	mud. (1 hrs) n bit and stat s,picked up c I held safety ed @ 700',17	palizer. (6 hrs) pentralizers and casing to meeting. (3.5 hrs) 00'. (9 hrs)			
	Wiped hole to 15 Circulated and co Tripped out of ho Cleared floor,rem Rigged up Team	500'.Tripped onditioned role, laid down noved tongs casing and ing, circulate Wiped hole out of hole centralizer	mud. (1 hrs) n bit and state s,picked up of held safety ed @ 700',17 de to 1500'.Tr e,laid down bits and casing	palizer. (6 hrs) pentralizers and casing to meeting. (3.5 hrs)	rculated and of	l tongs,picked up	
	Wiped hole to 15 Circulated and co Tripped out of ho Cleared floor,rem Rigged up Team Ran 13 3/8" casi	500'.Tripped conditioned role, laid down noved tongs casing and ing, circulate Wiped hole out of hole centralizer 3/8" casin	mud. (1 hrs) n bit and state s,picked up of theld safety ed @ 700',17 the to 1500'.Tr e,laid down bits and casing g,circulated (palizer. (6 hrs) pentralizers and casing to meeting. (3.5 hrs) 00'. (9 hrs) ped in hole to 5037'.Cir it and stabalizer.Cleared	rculated and of	l tongs,picked up	
	Wiped hole to 15 Circulated and co Tripped out of ho Cleared floor,rem Rigged up Team Ran 13 3/8" casi Comments:	500'.Tripped conditioned role, laid down noved tongs casing and ing, circulate Wiped hole out of hole centralizer 3/8" casin	mud. (1 hrs) n bit and state s,picked up of theld safety ed @ 700',17 the to 1500'.Tr e,laid down bits and casing g,circulated (palizer. (6 hrs) pentralizers and casing to meeting. (3.5 hrs) 00'. (9 hrs) pend in hole to 5037'.Cir it and stabalizer.Cleared tools.Rigged up Team of 700',1700'.	rculated and of	l tongs,picked up	
	Wiped hole to 15 Circulated and co Tripped out of ho Cleared floor,rem Rigged up Team Ran 13 3/8" casi Comments:	500'.Tripped conditioned role, laid down noved tongs casing and ing, circulate Wiped hole out of hole centralizer 3/8" casin MW: 9.6	mud. (1 hrs) n bit and state s,picked up of theld safety ed @ 700',17 the to 1500'.Tr e,laid down bits and casing g,circulated (palizer. (6 hrs) pentralizers and casing to meeting. (3.5 hrs) 00'. (9 hrs) pend in hole to 5037'.Cir it and stabalizer.Cleared tools.Rigged up Team of 700',1700'.	rculated and offloor, removed assing and he	l tongs,picked up	
	Wiped hole to 15 Circulated and co Tripped out of ho Cleared floor,rem Rigged up Team Ran 13 3/8" casi Comments: Mud Data: Surveys:	500'.Tripped conditioned role, laid down noved tongs casing and ing, circulate Wiped hole out of hole centralizer 3/8" casin MW: 9.6	mud. (1 hrs) n bit and state s,picked up of theld safety ed @ 700',17 le to 1500'.Tr e,laid down birs and casing g,circulated @ Viscosity: 4	palizer. (6 hrs) pentralizers and casing to meeting. (3.5 hrs) 00'. (9 hrs) pend in hole to 5037'.Cir and stabalizer.Cleared tools.Rigged up Team of 700',1700'. Filtrate: 6.7	rculated and offloor, removed assing and he	I tongs,picked up Id safety meeting.Rar	
17-Feb-09	Wiped hole to 15 Circulated and co Tripped out of ho Cleared floor,rem Rigged up Team Ran 13 3/8" casi Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days:	500'.Tripped onditioned role, laid down noved tongs casing and ing, circulate Wiped hol out of hole centralizer 3/8" casin MW: 9.6 None	mud. (1 hrs) n bit and state s,picked up of theld safety ed @ 700',17 de to 1500'.Tr e,laid down bit g,circulated @ Viscosity: 4 49,602	palizer. (6 hrs) pentralizers and casing to meeting. (3.5 hrs) 00'. (9 hrs) pipped in hole to 5037'.Cir it and stabalizer.Cleared tools.Rigged up Team of 700',1700'. Filtrate: 6.7 Well Costs (\$): Completion Days:	rculated and of floor, removed tasing and he	I tongs,picked up Id safety meeting.Rar 3,167,151	າ 13
17-Feb-09	Wiped hole to 15 Circulated and co Tripped out of ho Cleared floor,rem Rigged up Team Ran 13 3/8" casis Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days:	500'.Tripped conditioned role, laid down noved tongs casing and ing, circulate Wiped hol out of hole centralizer 3/8" casin MW: 9.6 None	mud. (1 hrs) n bit and state s,picked up of theld safety ed @ 700',17 de to 1500'.Tr e,laid down big g,circulated @ Viscosity: 4 49,602 41 5,037	palizer. (6 hrs) pentralizers and casing to meeting. (3.5 hrs) 00'. (9 hrs) pipped in hole to 5037'.Cir it and stabalizer.Cleared tools.Rigged up Team of 700',1700'. Filtrate: 6.7 Well Costs (\$): Completion Days:	rculated and of floor, removed assing and he	I tongs,picked up Id safety meeting.Rar 3,167,151 Workover Days: Ave ROP:	າ 13
17-Feb-09	Wiped hole to 15 Circulated and co Tripped out of ho Cleared floor,rem Rigged up Team Ran 13 3/8" casis Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days: Current Depth (\$) Current Ops:	500'.Tripped on ditioned role, laid down noved tongs casing and ing, circulate Wiped hole out of hole centralizer 3/8" casin MW: 9.6 None	mud. (1 hrs) n bit and state s,picked up of theld safety ed @ 700',17 de to 1500'.Tr e,laid down big g,circulated @ Viscosity: 4 49,602 41 5,037	palizer. (6 hrs) pentralizers and casing to meeting. (3.5 hrs) 00'. (9 hrs) pipped in hole to 5037'.Cir it and stabalizer.Cleared tools.Rigged up Team of 700',1700'. Filtrate: 6.7 Well Costs (\$): Completion Days:	rculated and of floor, removed assing and he	I tongs,picked up Id safety meeting.Rar 3,167,151 Workover Days: Ave ROP:	າ 13
17-Feb-09	Wiped hole to 15 Circulated and co Tripped out of ho Cleared floor,rem Rigged up Team Ran 13 3/8" casis Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days: Current Depth (\$) Current Ops: Operation Summ	500'.Tripped on ditioned role, laid down noved tongs casing and ing, circulate Wiped hole out of hole centralizer 3/8" casin MW: 9.6 None The preparing mary:	mud. (1 hrs) n bit and state s,picked up of theld safety ed @ 700',17 le to 1500'.Tr e,laid down bi rs and casing g,circulated @ Viscosity: 44 49,602 41 5,037 BOP stack for	palizer. (6 hrs) pentralizers and casing to meeting. (3.5 hrs) (00'. (9 hrs) pped in hole to 5037'.Cir it and stabalizer.Cleared tools.Rigged up Team of 700',1700'. Filtrate: 6.7 Well Costs (\$): Completion Days: Hole Drilled (ft): or removal while waiting of	rculated and of floor, removed assing and he	I tongs,picked up Id safety meeting.Rar 3,167,151 Workover Days: Ave ROP:	າ 13
17-Feb-09	Wiped hole to 15 Circulated and co Tripped out of ho Cleared floor,rem Rigged up Team Ran 13 3/8" casis Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days: Current Depth (1 Current Ops: Operation Summ Continue to run 1 Circulated casing	ioo'.Tripped on ble, laid down noved tongs casing and ing, circulate Wiped hole out of hole centralizer 3/8" casin MW: 9.6 None The paring mary: 13 3/8" casin g convention out 120 degree on ble to	mud. (1 hrs) n bit and state s,picked up of theld safety ed @ 700',17 le to 1500'.Tr a,laid down birs and casing g,circulated @ Viscosity: 44 49,602 41 5,037 BOP stack for ing. Shoe at anally at 500 g. Rigged down	palizer. (6 hrs) pentralizers and casing to meeting. (3.5 hrs) (00'. (9 hrs) pped in hole to 5037'.Cir it and stabalizer.Cleared tools.Rigged up Team of 700',1700'. Filtrate: 6.7 Well Costs (\$): Completion Days: Hole Drilled (ft): or removal while waiting of	rculated and of floor, removed tasing and he on cement to sing for 2 hrs	I tongs,picked up Id safety meeting.Rar 3,167,151 Workover Days: Ave ROP: harden.	0 of

18-Feb-09

Well Summary Report

Well ID: Aidlin #12

Field: Gevsers

Calpine

n

0

Well Name: Aidlin #12

Sect: 32 Town: 12 N Rng: 9 W County: Sonoma State: CA

bbls H2O, 30 bbls of mud flush, 293 bbls 15 # Therma Cem Tail cement, 438 bbls 13.5 # Tuned Lite Tail cement. Had full returns thru entire job. Waited 1 1/2 hrs after cement was pumped, topped annulus off with 8bbls of cement. Cement in place at 22:00 hrs. (5 hrs)

Rigged down Howco cementing equipment. (1 hrs)

Comments:

Continue to run 13 3/8" casing . Shoe at 5005'. Circulated casing conventionally at 5005', reverse circulated casing for 2 hrs, losing aprox 50 bph of mud.Mud temp out 120 deg. Rigged down Team casing equipment crew. Moved in and rigged up Howco. Taiboard all crews. Cemented 13 3/8 casing using the reverse circulation method. Pumped cement job as follows, 100 bbls H2O, 30 bbls of mud flush, 293 bbls 15# Therma Cem Tail cement, 438 bbls 13.5 # Tuned Light Tail cement. Had full returns thru entire job. Waited 1 1/2 hrs after cement was pumped, topped annulus off with 8bbls of cement. Cement in place at 22:00 hrs.Rigged down Howco cementing equipment.

Mud Data:

MW: 9.6 Viscosity: 43 Filtrate: 6.9

Surveys:

None

643,094

Well Costs (\$):

3,810,245

Daily Costs (\$): **Drilling Days:**

Completion Days:

Workover Days:

Current Depth (ft):

5,037

Hole Drilled (ft):

Ave ROP:

Current Ops:

Began to installed 13 5/8" BOP.

Operation Summary:

Prepared to remove 20" BOP while waiting on cement. (10 hrs) Released casing. Rough cut 13 3/8". Removed 20" BOP. (6 hrs)

Final cut 13 3/8" casing, Installed and welded 13 3/8" casing flange following Calpine procedures. Cooled and pressure tested casing flange. Tested good. (6 hrs)

Installed iconel clad mud cross and 12" mastervalve using iconel API rings. Tested mastervalve, 3" wing valves and casing to 500 psi. Test good. (2 hrs)

Comments:

Prepared to remove 20" BOP while waiting on cement.Released casing. Rough cut 13 3/8" . Removed 20" BOP.Final cut 13 3/8" casing. Installed and welded 13 3/8" casing flange following Calpine procedures Cooled and pressure tested casing flange. Tested good. Installed iconel clad mud cross and 12" mastervalve using iconel API rings. Tested master valve, 3" wing valves and casing to 500 psi. Test good.

Mud Data:

MW: 9.4 Viscosity: 37 Filtrate: 7.1

Surveys:

Mone

Well Costs (\$):

3,769,992

Daily Costs (\$): **Drilling Days:**

-40.253

43

Completion Days:

Workover Days:

19-Feb-09

Current Depth (ft):

5,037 Hole Drilled (ft):

Ave ROP:

Current Ops:

Magna flux check BHA.

Operation Summary:

Installed and tighten 13 5/8" BOP. Installed accumalator lines. Function tested BOP. (20 hrs)

Tested blind rams and BOP stack to 500 psi, Tested good 15 min, BOP test and inspection waived by DOGG rep Ali Khan. (1 hrs)

Center BOP with rotary table, Installed rotatting head bearing body. Installed rig floor plates. (1 hrs) Magna flux check BHA. (2 hrs)

Comments:

Installed and tighten 13 5/8" BOP. Installed accumalator lines. Function tested BOP. Tested blind rams and BOP stack to 500 psi. Tested good 15 min.BOP test and inspection waived by DOGG rep Ali Khan. Center BOP with rotary table. Installed rotatting head bearing body. Installed rig floor plates Magna flux check BHA.

Mud Data:

MW: 9.4 Viscosity: 36 Filtrate: 7.9

Surveys:

None

Daily Costs (\$): 79.727 Well Costs (\$):

3,849,719

Drilling Days:

Completion Days: 44

Workover Days: 0

20-Feb-09

Current Depth (ft):

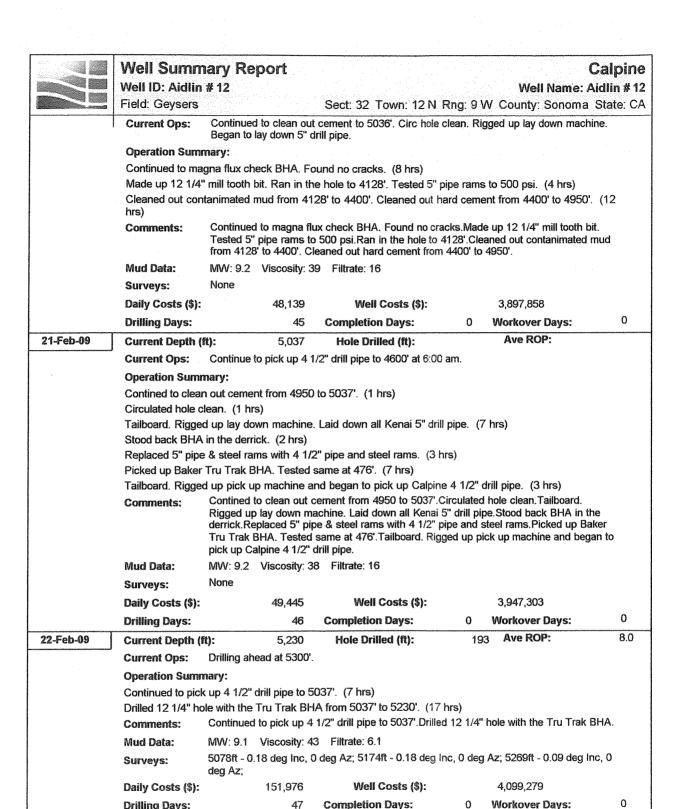
5,037 Hole Drilled (ft):

RIMBase

Ave ROP:

0

Page: 14 of 61



Operation Summary:

Drilling Days:

Current Ops:

Current Depth (ft):

Drilled 12 1/4" hole with the Tru Trak BHA from 5230' to 5515', no mud loss. (24 hrs)

47

5,515

Drilling ahead at 5590'.

Page: 15 of 61

11.9

Ave ROP:

23-Feb-09

Hole Drilled (ft):

	Well Summ Well ID: Aidlin Field: Geysers	~	oort	Sect: 32 Town: 12 N F	Rng: 9 V	Well Name:	
	Comments:	Drilled 12 1	1/4" hole with	the Tru Trak BHA from 523	30' to 551	5', no mud loss.	
	Mud Data:	MW: 9.2	Viscosity: 43	3 Filtrate: 6.5			
	Surveys:	None					
	Daily Costs (\$):		64,245	Well Costs (\$):		4,163,524	
	Drilling Days:		48	Completion Days:	0	Workover Days:	0
24-Feb-09	Current Depth (1	F41.	5,784	Hole Drilled (ft):	269		11.7
24100-00	Current Ops:	•	5,764 n 5784' to 58	` '	203	,	
			13104 10 30	41.			
	Operation Summ	•	CC451	- FCCO! (40 !)			
				to 5668'. (12 hrs)			
	Changed head in Drilled from 5668	•					
			•	eTrak from 5515' to 5668'.CI	hanned h	ead in #1 mud numn f	Irilled
	Comments:	from 5668'		eriak noni 5515 to 5006.01	nangeu n	sad in #1 mad pamp.	Jinica
	Mud Data:	MW: 9.2	Viscosity: 48	3 Filtrate: 6.8			
	Surveys:			deg Az; 5458ft - 0.09 deg In eg Inc, 0 deg Az; 5743ft - 0.0			Inc, 0
	Daily Costs (\$):		89,279	Well Costs (\$):		4,252,803	
	Drilling Days:		49	Completion Days:	0	Workover Days:	0
25-Feb-09	Current Depth (f	t):	6,042	Hole Drilled (ft):	258	Ave ROP:	10.8
	Current Ops: Operation Sumn		n 6042' to 610	03'.			
	Operation Sumn	nary: ole with True Drilled 12 1 MW: 9.1 5838ft - 0.1	Trak from 5 /4" hole with Viscosity: 48	03'. 5784' to 6042'. (24 hrs) True Trak from 5784' to 604 B Filtrate: 6.8 deg Az; 5933ft - 0.26 deg In		Az; 6028ft - 0.18 deg	Inc, O
	Operation Sumn Drilled 12 1/4" ho Comments: Mud Data: Surveys:	n ary: ble with True Drilled 12 1 MW: 9.1	Trak from 5 /4" hole with Viscosity: 48 l 8 deg lhc, 0	5784' to 6042'. (24 hrs) True Trak from 5784' to 604 B Filtrate: 6.8 deg Az; 5933ft - 0.26 deg In			Inc, 0
	Operation Summ Drilled 12 1/4" ho Comments: Mud Data: Surveys: Daily Costs (\$):	nary: ole with True Drilled 12 1 MW: 9.1 5838ft - 0.1	e Trak from 5 /4" hole with Viscosity: 48 18 deg Inc, 0 60,366	5784' to 6042'. (24 hrs) True Trak from 5784' to 604 3 Filtrate: 6.8 deg Az; 5933ft - 0.26 deg In Well Costs (\$):	nc, 0 deg	4,313,169	
	Operation Sumn Drilled 12 1/4" ho Comments: Mud Data: Surveys:	nary: ole with True Drilled 12 1 MW: 9.1 5838ft - 0.1	Trak from 5 /4" hole with Viscosity: 48 l 8 deg lhc, 0	5784' to 6042'. (24 hrs) True Trak from 5784' to 604 B Filtrate: 6.8 deg Az; 5933ft - 0.26 deg In	oc, 0 deg 0	4,313,169 Workover Days:	0
26-Feb- 09	Operation Summ Drilled 12 1/4" ho Comments: Mud Data: Surveys: Daily Costs (\$):	nary: ole with True Drilled 12 1 MW: 9.1 5838ft - 0.1 deg Az;	Trak from 5 /4" hole with Viscosity: 48 18 deg lnc, 0 60,366 50 6,122	5784' to 6042'. (24 hrs) True Trak from 5784' to 604 Filtrate: 6.8 deg Az; 5933ft - 0.26 deg In Well Costs (\$): Completion Days: Hole Drilled (ft):	oc, 0 deg 0 80	4,313,169 Workover Days: Ave ROP:	0
26-Feb-09	Operation Summ Drilled 12 1/4" ho Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days:	nary: ole with True Drilled 12 1 MW: 9.1 5838ft - 0.1 deg Az;	Trak from 5 /4" hole with Viscosity: 48 18 deg lnc, 0 60,366 50 6,122	5784' to 6042'. (24 hrs) True Trak from 5784' to 604 Filtrate: 6.8 deg Az; 5933ft - 0.26 deg In Well Costs (\$): Completion Days:	oc, 0 deg 0 80	4,313,169 Workover Days: Ave ROP:	0
26-Feb-09	Operation Summ Drilled 12 1/4" ho Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days: Current Depth (f	nary: ole with True Drilled 12 1 MW: 9.1 5838ft - 0.1 deg Az; t): Picked up 1	Trak from 5 /4" hole with Viscosity: 48 18 deg lnc, 0 60,366 50 6,122	5784' to 6042'. (24 hrs) True Trak from 5784' to 604 Filtrate: 6.8 deg Az; 5933ft - 0.26 deg In Well Costs (\$): Completion Days: Hole Drilled (ft):	oc, 0 deg 0 80	4,313,169 Workover Days: Ave ROP:	0
26-Feb-09	Operation Summ Drilled 12 1/4" ho Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days: Current Depth (f Current Ops: Operation Summ	nary: ole with True Drilled 12 1 MW: 9.1 5838ft - 0.1 deg Az; tt): Picked up nary:	e Trak from 5 /4" hole with Viscosity: 48 18 deg lnc, 0 60,366 50 6,122 monel to and	5784' to 6042'. (24 hrs) True Trak from 5784' to 604 Filtrate: 6.8 deg Az; 5933ft - 0.26 deg In Well Costs (\$): Completion Days: Hole Drilled (ft):	oc, 0 deg 0 80	4,313,169 Workover Days: Ave ROP:	0
26-Feb-09	Operation Summ Drilled 12 1/4" ho Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days: Current Depth (f Current Ops: Operation Summ Drilled 12 1/4" ho Circulated bottom	nary: le with True Drilled 12 1 MW: 9.1 5838ft - 0.1 deg Az; t): Picked up to nary: le with True as up. (1 hrs	e Trak from 5 /4" hole with Viscosity: 48 18 deg lnc, 0 60,366 50 6,122 monel to and	5784' to 6042'. (24 hrs) True Trak from 5784' to 604 Filtrate: 6.8 deg Az; 5933ft - 0.26 deg In Well Costs (\$): Completion Days: Hole Drilled (ft): set back True Trak in derrice 6042' to 6122'. (8 hrs)	0 80 ck.Made u	4,313,169 Workover Days: Ave ROP: up bha and tripped in I	0 10.0 nole.
26-Feb-09	Operation Summ Drilled 12 1/4" ho Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days: Current Depth (f Current Ops: Operation Summ Drilled 12 1/4" ho Circulated bottom Tripped out of ho from 5636' to 500	nary: ole with True Drilled 12 1 MW: 9.1 5838ft - 0.1 deg Az; Ti): Picked up to nary: ole with True us up. (1 hrs ole pipe pulle D9' .Hole pa	Trak from 5 /4" hole with Viscosity: 48 /8 deg lnc, 0 60,366 50 6,122 monel to and Trak from 6 /8) ed tight @ 5	784' to 6042'. (24 hrs) True Trak from 5784' to 604 Filtrate: 6.8 deg Az; 5933ft - 0.26 deg In Well Costs (\$): Completion Days: Hole Drilled (ft):	0 80 ck.Made u	4,313,169 Workover Days: Ave ROP: up bha and tripped in leading the second s	0 10.0 nole.
26-Feb-09	Operation Summ Drilled 12 1/4" ho Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days: Current Depth (f Current Ops: Operation Summ Drilled 12 1/4" ho Circulated bottom Tripped out of ho	nary: ole with True Drilled 12 1 MW: 9.1 5838ft - 0.1 deg Az; it): Picked up to a compary: ole with True as up. (1 hrs) ole pipe pulle D9' .Hole par hrs)	e Trak from 5 /4" hole with Viscosity: 48 /8 deg lnc, 0 60,366 50 6,122 monel to and e Trak from 6 s) ed tight @ 5 cked off @ 5	i784' to 6042'. (24 hrs) True Trak from 5784' to 604 Filtrate: 6.8 deg Az; 5933ft - 0.26 deg In Well Costs (\$): Completion Days: Hole Drilled (ft): set back True Trak in derrice 6042' to 6122'. (8 hrs)	0 80 ck.Made u	4,313,169 Workover Days: Ave ROP: up bha and tripped in leading the second s	0 10.0 nole.
26-Feb-09	Operation Summ Drilled 12 1/4" ho Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days: Current Depth (f Current Ops: Operation Summ Drilled 12 1/4" ho Circulated bottom Tripped out of ho from 5636" to 500 inside casing. (7	nary: ole with True Drilled 12 1 MW: 9.1 5838ft - 0.1 deg Az; tt): Picked up a nary: ole with True as up. (1 hrs ole pipe pulle D9' . Hole par hrs) le, removed	e Trak from 5 /4" hole with Viscosity: 48 /8 deg lnc, 0 60,366 50 6,122 monel to and e Trak from 6 s) ed tight @ 5 cked off @ 5	F784' to 6042'. (24 hrs) True Trak from 5784' to 604 Filtrate: 6.8 deg Az; 5933ft - 0.26 deg In Well Costs (\$): Completion Days: Hole Drilled (ft): Set back True Trak in derrice 6042' to 6122'. (8 hrs) 636'.Pumped and rotated of 5009'.Worked pipe thru pac	0 80 ck.Made u	4,313,169 Workover Days: Ave ROP: up bha and tripped in leading the second s	0 10.0 nole.
26-Feb-09	Operation Summ Drilled 12 1/4" ho Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days: Current Depth (f Current Ops: Operation Summ Drilled 12 1/4" ho Circulated bottom Tripped out of ho from 5636' to 500 inside casing. (7 Tripped out of ho	nary: ole with True Drilled 12 1 MW: 9.1 5838ft - 0.1 deg Az; Ti): Picked up inary: ole with True as up. (1 hrs ole pipe pulle D9' . Hole par hrs) le,removed ib,float sub,float sub,floa	e Trak from 5 /4" hole with Viscosity: 48 18 deg lnc, 0 60,366 50 6,122 monel to and e Trak from 6 s) ed tight @ 5 cked off @ 5 bit. (7 hrs) and stop suk /4" hole with pipe pulled ti m 5636" to 50	True Trak from 5784' to 6043' to 6043' to 6043' to 6043' to 6043' True Trak from 5784' to 6043' Filtrate: 6.8 deg Az; 5933ft - 0.26 deg In Well Costs (\$): Completion Days: Hole Drilled (ft): I set back True Trak in derrice 6042' to 6122'. (8 hrs) 636'.Pumped and rotated or 6009'.Worked pipe thru pactors o. (1 hrs) True Trak from 6042' to 612 ight @ 5636'.Pumped and rotated or 6009'. Hole packed off @ 5000 in at 5000' inside casing. Trip	0 80 ck.Made u ut of hole k off.Circul otated out 9'.Worker	4,313,169 Workover Days: Ave ROP: up bha and tripped in lessent to the second tripped in lessent tripped in les	0 10.0 nole.
26-Feb-09	Operation Summ Drilled 12 1/4" ho Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days: Current Depth (f Current Ops: Operation Summ Drilled 12 1/4" ho Circulated bottom Tripped out of ho from 5636' to 500 inside casing. (7 Tripped out of hol Broke out filter su	nary: ole with True Drilled 12 1 MW: 9.1 5838ft - 0.1 deg Az; Tit): Picked up to nary: ole with True as up. (1 hrs ole pipe pulle D9' . Hole par hrs) le removed to the pipe pulle db,float sub,float sub,flo	e Trak from 5 /4" hole with Viscosity: 48 18 deg lnc, 0 60,366 50 6,122 monel to and e Trak from 6 s) ed tight @ 5 cked off @ 5 bit. (7 hrs) and stop suk /4" hole with pipe pulled ti m 5636' to 50 ed hole clear b, float sub, an	True Trak from 5784' to 6043' to 6043' to 6043' to 6043' to 6043' True Trak from 5784' to 6043' Filtrate: 6.8 deg Az; 5933ft - 0.26 deg In Well Costs (\$): Completion Days: Hole Drilled (ft): I set back True Trak in derrice 6042' to 6122'. (8 hrs) 636'.Pumped and rotated or 6009'.Worked pipe thru pactors o. (1 hrs) True Trak from 6042' to 612 ight @ 5636'.Pumped and rotated or 6009'. Hole packed off @ 5000 in at 5000' inside casing. Trip	0 80 ck.Made u ut of hole k off.Circul otated out 9'.Worker	4,313,169 Workover Days: Ave ROP: up bha and tripped in lessent to the second tripped in lessent tripped in les	0 10.0 nole.
26-Feb-09	Operation Summ Drilled 12 1/4" ho Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days: Current Depth (f Current Ops: Operation Summ Drilled 12 1/4" ho Circulated bottom Tripped out of ho from 5636' to 500 inside casing. (7 Tripped out of hol Broke out filter su Comments:	nary: Dele with True Drilled 12 1 MW: 9.1 5838ft - 0.1 deg Az; Thi: Picked up in ary: Dele with True as up. (1 hrs Dele yith True ble removed ib, float sub, in ary: Drilled 12 1 out of hole Argillite fro off Circulat out filter su MW: 9.2	e Trak from 5 /4" hole with Viscosity: 48 18 deg lnc, 0 60,366 50 6,122 monel to and e Trak from 6 s) ed tight @ 5 cked off @ 5 bit. (7 hrs) and stop suk /4" hole with pipe pulled ti m 5636' to 50 ed hole clear b, float sub, an	Filtrate: 6.8 deg Az; 5933ft - 0.26 deg In Well Costs (\$): Completion Days: Hole Drilled (ft): det back True Trak in derrice 6042' to 6122'. (8 hrs) 636'.Pumped and rotated or 6009'.Worked pipe thru pace 10. (1 hrs) description True Trak from 6042' to 612 deg In 609'. Hole packed off @ 5000 deg In	0 80 ck.Made u ut of hole k off.Circul otated out 9'.Worker	4,313,169 Workover Days: Ave ROP: up bha and tripped in lessent to the second tripped in lessent tripped in les	0 10.0 nole.
26-Feb-09	Operation Summ Drilled 12 1/4" ho Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days: Current Depth (f Current Ops: Operation Summ Drilled 12 1/4" ho Circulated bottom Tripped out of ho from 5636' to 500 inside casing. (7 Tripped out of hol Broke out filter su Comments:	nary: Dele with True Drilled 12 1 MW: 9.1 5838ft - 0.1 deg Az; Thi: Picked up in ary: Dele with True as up. (1 hrs Dele yith True ble removed ib, float sub, in ary: Drilled 12 1 out of hole Argillite fro off Circulat out filter su MW: 9.2	e Trak from 5 /4" hole with Viscosity: 48 18 deg lnc, 0 60,366 50 6,122 monel to and e Trak from 6 s) ed tight @ 5 cked off @ 5 bit. (7 hrs) and stop suk /4" hole with pipe pulled ti m 5636' to 50 ed hole clear b,float sub,ai Viscosity: 55	Filtrate: 6.8 deg Az; 5933ft - 0.26 deg In Well Costs (\$): Completion Days: Hole Drilled (ft): det back True Trak in derrice 6042' to 6122'. (8 hrs) 636'.Pumped and rotated or 6009'.Worked pipe thru pace 10. (1 hrs) description True Trak from 6042' to 612 deg In 609'. Hole packed off @ 5000 deg In	0 80 ck.Made u ut of hole k off.Circul otated out 9'.Worker	4,313,169 Workover Days: Ave ROP: up bha and tripped in lessent to the second tripped in lessent tripped in les	0 10.0 nole.



Well ID: Aidlin # 12

Field: Geysers

Calpine

Well Name: Aidlin # 12

Sect: 32 Town: 12 N Rng: 9 W County: Sonoma State: CA

27-Feb-09

Current Depth (ft):

6.122

Hole Drilled (ft):

Ave ROP:

Current Ops:

Cleaned out fill from 5911' to 6122'. Circulated bottoms up. Attempted to trip out of

hole, hole packed off. Circulated and pumped out of hole.

Operation Summary:

Made up monel checked and made up filter and float subs scribed and stood back mud motor. (2.5

Made up clean out bha and tripped in hole to 4900'. (6 hrs)

Cut and slipped drill line 68'. (2 hrs)

Raised mud weight from 9.1ppg to 9.6 ppg.changed out pump liners. (5.5 hrs)

Tripped in hole to 5270', singled in hole tagged fill @ 5491'. (3 hrs)

Cleaned out fill from 5491' to 5911' (5 hrs)

Comments:

Made up monel, checked and made up filter and float subs, scribed and stood back mud motor. Made up clean out bha and tripped in hole to 4900'. Cut and slipped drill line 68'.Raised mud weight from 9.1ppg to 9.6 ppg.changed out pump liners.Tripped in hole to 5270', singled in hole tagged fill @ 5491'Cleaned out fill from 5491' to 5911'.

Mud Data:

MW: 9.5 Viscosity: 48 Filtrate: 6.8

Surveys:

None

Daily Costs (\$):

53.778 Well Costs (\$):

4.444.596

Drilling Days:

Current Ops:

52

Completion Days:

Workover Days:

0

0

28-Feb-09

Current Depth (ft):

6,122

Hole Drilled (ft):

Ave ROP:

Pumped out of hole to 5800', tripped out with stands to 5009'. Circulated. Tripped in hole,tagged fill @ 6078'.

Operation Súmmary:

Clean out Argillite fill from 5911' to 6122'. (3.5 hrs)

Circulated bottoms up, built mud weight to 9.6 ppg. (1.5 hrs)

Turned off pumps attempted to trip out of hole, hole packed off, circulated. (1 hrs)

Pumped out of hole to 5390'. (3.5 hrs)

Circulated bottoms up. (1 hrs)

Tripped out of hole to 5009'. (0.5 hrs)

Tripped in hole,tagged fill @ 5998'. (2 hrs)

Cleaned out Argillite fill from 5998' to 6122'. (1 hrs)

Circulated and built mud weight to 10 ppg. (5 hrs)

Pumped out of hole to 5839', tripped in hole to 6122'. (2 hrs)

Circulated and built gel strength to 60 viscocity. (2.5 hrs)

Pumped out of hole. (0.5 hrs)

Comments:

Clean out Argillite fill from 5911' to 6122'. Circulated bottoms up, built mud weight to 9.6 ppg. Turned off pumps attempted to trip out of hole, hole packed off, circulated. Pumped out of hole to 5390'. Circulated bottoms up. Tripped out of hole to 5009'. Tripped in hole,tagged fill @ 5998'. Cleaned out Argillite fill from 5998' to 6122'. Circulated and built mud weight to 10 ppg. Pumped out of hole to 5839', tripped in hole to 6122'. Circulated

and built gel strength to 60 viscocity. Pumped out of hole.

Mud Data:

MW: 10 Viscosity: 46 Filtrate: 6.7

Surveys:

None

64.487

Well Costs (3):

4,509,083

Daily Costs (\$): **Drilling Days:**

53

Completion Days:

Workover Days:

0

01-Mar-09

Current Depth (ft):

6.122

Hole Drilled (ft):

Ave ROP:

Tripped out of hole, removed bit. Made up TrueTrak assembly and new bit, tripped in hole.

Current Ops:

Operation Summary:

Pumped out of hole to 58TO imposed out to 5009' (1.5 hrs. Circulated @ 5009' 4 ars

2:MBasa

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Well ID: Aidlin # 12

Field: Gevsers

Well Name: Aidlin #12

Calpine

Tripped in hole,tagged fill @ 6078',cleaned out fill to 6122'. (1.5 hrs)

Circulated bottoms up @ 6122'. (1.5 hrs)

Pumped out of hole to 5870' tripped out to 5009'. (2 hrs)

Circulated @ 5009'. (2.5 hrs)

Tripped in hole,tagged @ 6092',washed out to 6122'. (1.5 hrs)

Circulated bottoms up @ 6122'. (1.5 hrs)

Pumped out of hole to 5870' tripped out to 5009' Tripped in hole to 6095', washed to 6122'. (2 hrs)

Circulated bottoms up @ 6122'. (1 hrs)

Pumped out of hole to 5870', Tripped out of hole for TrueTrak assembly.. (5 hrs)

Comments:

Pumped out of hole to 5870' tripped out to 5009' Circulated @ 5009' Tripped in hole tagged fill @ 6078', cleaned out fill to 6122'. Circulated bottoms up @ 6122'. Pumped out of hole to 5870', tripped out to 5009', Circulated @ 5009', Tripped in hole, tagged @ 6092' washed out to 6122'. Circulated bottoms up @ 6122'. Pumped out of hole to 5870',tripped out to 5009'. Tripped in hole to 6095', washed to 6122'. Circulated bottoms up @ 6122'.Pumped out of hole to 5870',Tripped out of hole for TrueTrak assembly.

Mud Data:

MW: 10.1 Viscosity: 65 Filtrate: 6.5

Surveys:

Daily Costs (\$):

52,844

Well Costs (\$):

4.561.928

Drilling Days:

54 **Completion Days:** Workover Days:

02-Mar-09 Current Depth (ft): 6.189

Hole Drilled (ft):

Ave ROP:

Sect: 32 Town: 12 N Rng: 9 W County: Sonoma State: CA

9.6

Current Ops:

Drilled from 6189' to 6239'.

Operation Summary:

Tripped out of hole with clean out assembly. (2 hrs)

Made up bit and TrueTrak assembly,tripped in hole to 5005'. (7 hrs)

Changed out Pump #2 liners from 6' to 5 1/2". (3 hrs)

Tripped in hole,tagged @ 5585'. (0.5 hrs)

Washed and reamed from 5585' to 5838'. (2.5 hrs)

Singled in hole to 6032', reamed from 6032' to 6122'. (2 hrs)

Drilled 12 1/4" hole with TrueTrak from 6122' to 6189'. (7 hrs)

Comments:

Tripped out of hole with clean out assembly. Made up bit and TrueTrak assembly, tripped in hole to 5005'. Changed out Pump # 2 liners from 6' to 5 1/2". Tripped in hole tagged @ 5585' Washed and reamed from 5585' to 5838' Singled in hole to 6032' reamed from 6032' to 6122'. Drilled 12 1/4" hole with TrueTrak from 6122' to 6189'.

Mud Data:

MW: 10.2 Viscosity: 68 Filtrate: 6.3

55

Surveys:

6163ft - 0.07 deg Inc, 0 deg Az;

4.694,715

Daily Costs (\$): **Drilling Days:**

132,787

Well Costs (\$): **Completion Days:**

Workover Days:

n

03-Mar-09

Current Depth (ft):

Hole Drilled (ft):

Ave ROP:

8.1

6.351

Current Ops:

Drilled 12 1/4" hole with TrueTrak from 6351' to 6387' at 6:00 am.

Operation Summary:

Drilled 12 1/4" hole with TrueTrak from 6189' to 6313'. (15 hrs)

Circulated bottoms up. (1 hrs)

Pulled out of the hole to the shoe. Hole was not tight. (1 hrs)

Serviced rig. (0.5 hrs)

Ran in the hole, no tight spots. (1 hrs)

Circulated and oriented True Trak, cleaned out 5' of fill. (0.5 hrs)

Drilled 12 1/4" hole with TrueTrak from 6313' to 6351'. (5 hrs)

Comments:

Drilled 12 1/4" hole with TrueTrak from 6189' to 6313'. Circulated bottoms up. Pulled out of the hole to the shoe. Hole was not tight. Serviced rig. Ran in the hole, no tight spots. Circulated and oriented True Trak, cleaned out 5' of fill. Drilled 12 1/4" hole with

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RIMBase

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	Well Summ Well ID: Aidlin Field: Geysers	•	port	Sect: 32 Town: 12 N R	lng: 9 W	Well Name: Ai	
			from 6313' to				
	Mud Data:			72 Filtrate: 5.6			
	Surveys:		.26 deg Inc, () deg Az;			
	Daily Costs (\$):		79,898	Well Costs (\$):		4,774,612	_
	Drilling Days:	······································	56	Completion Days:	0	Workover Days:	0
04-Mar-09	Current Depth (*	6,473	Hole Drilled (ft):	122		5.7
	Current Ops:	Drilled 12	1/4" hole with	TrueTrak from 6473' to 651	5' at 6:00	am.	
	Operation Sumi	. *			i		
	target at 6409' (21 hrs)		6351' to 6471', began to build	d hole ar	ngle and steer hole to	
	Circulated botton		,		EE00	V Dan kaala in Maa bala	
	had no fill. (1.5	hrs)		up drag increased from 5800	10 5500	r. Kan back in the hole	
				6471' to 6473'. (0.5 hrs) n TrueTrak from 6351' to 647	1' bogan	to build halo angle and	
	Comments:	steer hole hole up dr	to target at 6 ag increased	409'.Circulated bottoms up.P from 5800' to 5500'. Ran bac from 6471' to 6473'.	ulled out	of the hole to the shoe,	2
	Mud Data:	MVV: 10.2	Viscosity:	64 Filtrate: 5.5			
	Surveys:	6353ft - 0.	25 deg Inc, 2	26 deg Az; 6448ft - 0.74 deg	Inc, 10.6	deg Az;	
	Daily Costs (\$):		72,637	Well Costs (\$):		4,847,249	
	Drilling Days:		57	Completion Days:	0	Workover Days:	0
05-Mar-09	Current Depth (Rt):	6,652	Hole Drilled (ft):	179	Ave ROP:	7.5
	Current Ops:	Drilled 12	1/4" hole with	TrueTrak from 6652' to 6693	3' at 6:00	am.	
	Operation Summ	nary:					
	Drilled 12 1/4" ho			6473' to 6652'. (24 hrs)			
	Comments:	Drilled 12	1/4" hole with	TrueTrak from 6473' to 6652	2'.		
	Mud Data:	MW: 10	Viscosity: 58	Filtrate: 5.6			
	Surveys:	6511ft - 1.	93 deg Inc, 1	3.3 deg Az; 6575ft - 3.2 deg I	nc, 18.3	deg Az;	
	Daily Costs (\$):		65,127	Well Costs (\$):		4,912,376	
	Drilling Days:		58	Completion Days:	0	Workover Days:	0
06-Mar-09	Current Depth (f	ft):	6,803	Hole Drilled (ft):	151	Ave ROP:	7.4
	Current Ops:	Drilled 12	1/4" hole with	TrueTrak from 6803' to 6845	at 6:00	am.	
				machak nom occo to co-to			
	Operation Summ	nary:		That hak from 6000 to 60-10			
	•	-		652' to 6693'. (5.5 hrs)			
	Drilled 12 1/4" ho Circulated bottom	ole with Truens up. (1 hr	eTrak from 6	652' to 6693'. (5.5 hrs)			
	Drilled 12 1/4" ho Circulated bottom Pulled out of the	ole with True ns up. (1 hr hole to the	eTrak from 6				
	Drilled 12 1/4" ho Circulated bottom Pulled out of the had no fill. (2.5)	ole with True ns up. (1 hr hole to the hrs)	eTrak from 6 s) shoe, hole u	652' to 6693'. (5.5 hrs) up drag increased from 5800'			
	Drilled 12 1/4" ho Circulated bottom Pulled out of the had no fill. (2.5)	ole with True as up. (1 hr hole to the hrs) ole with True Drilled 12 of the hole	eTrak from 60 s) shoe, hole u eTrak from 60 1/4" hole with to the shoe,	652' to 6693'. (5.5 hrs) up drag increased from 5800' 693' to 6803'. (15 hrs) n TrueTrak from 6652' to 6693' hole up drag increased from 1	to 5500 3'.Circula 5800' to	'. Ran back in the hole, ted bottoms up.Pulled o 5500'. Ran back in the	ut
	Drilled 12 1/4" ho Circulated bottom Pulled out of the had no fill. (2.5) Drilled 12 1/4" ho Comments:	ole with True ns up. (1 hr hole to the hrs) ole with True Drilled 12 of the hole hole, had r	eTrak from 60 s) shoe, hole u eTrak from 60 1/4" hole with to the shoe, no fill. Drilled	652' to 6693'. (5.5 hrs) p drag increased from 5800' 693' to 6803'. (15 hrs) TrueTrak from 6652' to 6693' hole up drag increased from 612 1/4" hole with TrueTrak fro	to 5500 3'.Circula 5800' to	'. Ran back in the hole, ted bottoms up.Pulled o 5500'. Ran back in the	ut
	Drilled 12 1/4" ho Circulated bottom Pulled out of the had no fill. (2.5) Drilled 12 1/4" ho	ole with True ns up. (1 hr hole to the hrs) ole with True Drilled 12 of the hole hole, had r MW: 9.8	eTrak from 66 s) shoe, hole useTrak from 66 1/4" hole with to the shoe, no fill. Drilled Viscosity: 60 4 deg Inc, 19	652' to 6693'. (5.5 hrs) up drag increased from 5800' 693' to 6803'. (15 hrs) n TrueTrak from 6652' to 6693' hole up drag increased from 1	to 5500 3'.Circula 5800' to om 6693'	'. Ran back in the hole, ted bottoms up.Pulled o 5500'. Ran back in the to 6803'.	
	Drilled 12 1/4" ho Circulated bottom Pulled out of the had no fill. (2.5 i Drilled 12 1/4" ho Comments:	ole with True ns up. (1 hr hole to the hrs) ole with True Drilled 12 of the hole hole, had r MW: 9.8 6638ft - 4.4	eTrak from 66 s) shoe, hole useTrak from 66 1/4" hole with to the shoe, no fill. Drilled Viscosity: 60 4 deg Inc, 19	652' to 6693'. (5.5 hrs) p drag increased from 5800' 693' to 6803'. (15 hrs) n TrueTrak from 6652' to 6693' hole up drag increased from 12 1/4" hole with TrueTrak from 15 Filtrate: 5.2	to 5500 3'.Circula 5800' to om 6693'	'. Ran back in the hole, ted bottoms up.Pulled o 5500'. Ran back in the to 6803'.	

	Well Summ						
	Well ID: Aidlin	#12					e: Aidlin#
	Field: Geysers			Sect: 32 Town: 1	2 N Rng: 9 \	N County: Sono	ma State:
07-Mar-09	Current Depth (ft):	6,975	Hole Drilled (ft):	17	2 Ave ROP:	7.2
	Current Ops:	Drilled 12 1	1/4" hole wit	h TrueTrak from 6803'	to 7005' at 6:00	0 am.	
	Operation Sum	mary:					
	Drilled 12 1/4" hi (24 hrs)	ole with True	eTrak from	6803' to 6975'. Chang	ged out liner ar	nd head in mud pur	mp # 2.
	Comments:	mud pump	# 2.	h TrueTrak from 6803'	to 6975'. Char	nged out liner and h	nead in
	Mud Data:		•	4 Filtrate: 5.5			
	Surveys:	6828ft - 7.3	35 deg Inc,	19.6 deg Az; 6891ft - 8	1.08 deg inc, 21	.6 deg Az;	
	Daily Costs (\$):		66,438	Well Costs (\$):	5,082,243	
	Drilling Days:		60	Completion Days:	0	Workover Days:	: 0
08-Mar-09	Current Depth (ft):	7,010	Hole Drilled (ft):	3	5 Ave ROP:	5.4
	Current Ops:			e hole cooling off and to ak. Drilled 12 1/4" hole			e hole to
	Operation Summ						
				6975' to 7010'. (6.5 h	rs)		
	Circulated botton		•	117440 14.4			
				ak and bit # 10. Made Ran BHA back in the			leaned
	THE THEOLOGICAL				noic , toolog !	ia man (10 mo)	
	Slipped and cut of	drilling line.	(2 hrs)				
	Slipped and cut on Ran in the hole to	drilling line.(o 2442'.(1 l	(2 hrs) hrs)	h TrueTrak from 6975	i' to 7010'.Circu	ılated bottoms up.P	'ulled out
	Slipped and cut of	drilling line. (o 2442'. (1 l Drilled 12 1 of the hole. Cleaned Tr	(2 hrs) hrs) 1/4" hole wit Laid down u Trak filter	h TrueTrak from 6975 Tru Trak and bit # 10. .Installed new 4 1/2" rt	Made up new 1 oop. Ran BHA l	Fru Trak and bit # 1	1.
	Slipped and cut of Ran in the hole to Comments:	drilling line. (o 2442'. (1 I Drilled 12 1 of the hole. Cleaned Tr Trak.Slippe	(2 hrs) hrs) I/4" hole wit Laid down ru Trak filter ed and cut d	h TrueTrak from 6975 Tru Trak and bit # 10. Installed new 4 1/2" rt. rilling line.Ran in the ho	Made up new 1 oop. Ran BHA l	Fru Trak and bit # 1	1.
	Slipped and cut of Ran in the hole to Comments: Mud Data:	drilling line. (o 2442'. (1 I Drilled 12 1 of the hole. Cleaned Tr Trak.Slippe MW: 9.7	(2 hrs) hrs) /4" hole with Laid down ru Trak filter ed and cut d Viscosity: 7	h TrueTrak from 6975 Tru Trak and bit # 10. .Installed new 4 1/2" rt rilling line.Ran in the ho 3 Filtrate: 5.4	Made up new 1 oop. Ran BHA l	Fru Trak and bit # 1	1.
	Slipped and cut of Ran in the hole to Comments: Mud Data: Surveys:	drilling line. (o 2442'. (1 I Drilled 12 1 of the hole. Cleaned Tr Trak.Slippe	(2 hrs) hrs) 1/4" hole wit Laid down tu Trak filter and cut d Viscosity: 7 32 deg Inc, 2	h TrueTrak from 6975 Tru Trak and bit # 10. .!nstalled new 4 1/2" rt rilling line.Ran in the ho 3 Filtrate: 5.4 21 deg Az;	Made up new 1 pop. Ran BHA I ple to 2442'.	Fru Trak and bit # 1 back in the hole, tes	1.
	Slipped and cut of Ran in the hole to Comments: Mud Data: Surveys: Daily Costs (\$):	drilling line. (o 2442'. (1 I Drilled 12 1 of the hole. Cleaned Tr Trak.Slippe MW: 9.7	(2 hrs) hrs) hrs) 1/4" hole with Laid down tu Trak filter ed and cut d Viscosity: 7 32 deg Inc, 2	h TrueTrak from 6975 Tru Trak and bit # 10. .Installed new 4 1/2" rt rilling line.Ran in the ho 3 Filtrate: 5.4 21 deg Az; Well Costs (9	Made up new 1 pop. Ran BHA I pop to 2442'.	Fru Trak and bit # 1 back in the hole, tes 5,195,117	1. sted Tru
00 340- 00	Slipped and cut of Ran in the hole to Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days:	drilling line. (o 2442'. (1 l o 2442'. (1 l of the hole. Cleaned Tr Trak.Slippe MW: 9.7 6955ft - 9.3	(2 hrs) hrs) hrs) 1/4" hole wit Laid down u Trak filter d and cut d Viscosity: 7 32 deg Inc, 2 112,875 61	h TrueTrak from 6975 Tru Trak and bit # 10Installed new 4 1/2" rt rilling line.Ran in the ho 3 Filtrate: 5.4 21 deg Az; Well Costs (S	Made up new 1 pop. Ran BHA I pop. Ran BHA I pole to 2442'.	Fru Trak and bit # 1 back in the hole, tes 5,195,117 Workover Days:	1. sted Tru
09-Mar-09	Slipped and cut of Ran in the hole to Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days: Current Depth (6)	drilling line. (o 2442'. (1 line) o 2442'. (1 line) of the hole. Cleaned Tr Trak. Slippe MW: 9.7 6955ft - 9.3	(2 hrs) hrs) hrs) 1/4" hole wit Laid down u Trak filter ed and cut d Viscosity: 7 32 deg lnc, 2 112,875 61 7,189	h TrueTrak from 6975 Tru Trak and bit # 10. Installed new 4 1/2" rt rilling line.Ran in the ho Filtrate: 5.4 21 deg Az; Well Costs (\$ Completion Days:	Made up new 1 pop. Ran BHA I pop to 2442'.	Fru Trak and bit # 1 back in the hole, tes 5,195,117 Workover Days:	1. sted Tru
09-Mar-09	Slipped and cut of Ran in the hole to Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days: Current Depth (1) Current Ops:	drilling line. (o 2442'. (1 I Drilled 12 1 of the hole. Cleaned Tr Trak.Slippe MVV: 9.7 6955ft - 9.3	(2 hrs) hrs) hrs) 1/4" hole wit Laid down u Trak filter ed and cut d Viscosity: 7 32 deg lnc, 2 112,875 61 7,189	h TrueTrak from 6975 Tru Trak and bit # 10Installed new 4 1/2" rt rilling line.Ran in the ho 3 Filtrate: 5.4 21 deg Az; Well Costs (S	Made up new 1 pop. Ran BHA I pop. Ran BHA I pole to 2442'.	Fru Trak and bit # 1 back in the hole, tes 5,195,117 Workover Days:	1. sted Tru
09-Mar-09	Slipped and cut of Ran in the hole to Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days: Current Depth (Current Ops: Operation Summer	drilling line. (o 2442'. (1 I Drilled 12 1 of the hole. Cleaned Tr Trak. Slippe MW: 9.7 6955ft - 9.3	(2 hrs) hrs) hrs) 1/4" hole wit Laid down ru Trak filter d and cut d Viscosity: 7 32 deg Inc, 2 112,875 61 7,189 of the hole w	h TrueTrak from 6975 Tru Trak and bit # 10. Installed new 4 1/2" rt rilling line.Ran in the ho 3 Filtrate: 5.4 21 deg Az; Well Costs (\$ Completion Days: Hole Drilled (ft):	Made up new 1 pop. Ran BHA I pole to 2442'.	Fru Trak and bit # 1 back in the hole, tes 5,195,117 Workover Days: 9 Ave ROP:	1. sted Tru
09-Mar-09	Slipped and cut of Ran in the hole to Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days: Current Depth (Current Ops: Operation Summ	drilling line. (o 2442'. (1 l or 2442'. (1 l of the hole. Cleaned Tr Trak.Slippe MW: 9.7 6955ft - 9.3 ft): Pulled out of mary: in the hole wole with True	(2 hrs) hrs) hrs) 1/4" hole wit Laid down Trak filter d and cut d Viscosity: 7 32 deg lnc, 2 112,875 61 7,189 of the hole with Tru Trak	h TrueTrak from 6975 Tru Trak and bit # 10. Installed new 4 1/2" rt rilling line.Ran in the ho Filtrate: 5.4 21 deg Az; Well Costs (\$ Completion Days:	Made up new Topp. Ran BHA I ble to 2442'. 179 179 Trak at the sh	Fru Trak and bit # 1 back in the hole, tes 5,195,117 Workover Days: 9 Ave ROP:	1. sted Tru : 0 10.8
09-Mar-09	Slipped and cut of Ran in the hole to Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days: Current Depth (Current Ops: Operation Summ Continue to run in Drilled 12 1/4" hot 100 bph at 7180' Began to single of the continue to single of the cont	drilling line. (o 2442'. (1 line) 2442'. (1 li	(2 hrs) hrs) hrs) 1/4" hole wit Laid down u Trak filter d and cut d Viscosity: 7 32 deg Inc, 2 112,875 61 7,189 of the hole w hith Tru Trak	h TrueTrak from 6975 Tru Trak and bit # 10. Installed new 4 1/2" rt rilling line.Ran in the ho 3 Filtrate: 5.4 21 deg Az; Well Costs (\$ Completion Days: Hole Drilled (ft): rith Tru Trak.	Made up new Topp. Ran BHA I ble to 2442'. 17: Trak at the sh to lose 15/20 i go', pulling tigh	Fru Trak and bit # 1 back in the hole, tes 5,195,117 Workover Days: 9 Ave ROP: oe. (5 hrs) bph of mud at 7080 at, losing mud. Sing	1. sted Tru 10.6 0', then gled out
09-Mar-09	Slipped and cut of Ran in the hole to Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days: Current Depth (Current Ops: Operation Summ Continue to run in Drilled 12 1/4" hot 100 bph at 7180' Began to single of the continue to single of the cont	drilling line. (o 2442'. (1 I Drilled 12 1 of the hole. Cleaned Tr Trak. Slippe MVV: 9.7 6955ft - 9.3 ft): Pulled out of mary: In the hole with True out of the hole with True out of the hole to 12 1/4" hole 7080', then 7180', pulling	(2 hrs) hrs) hrs) 1/4" hole wit Laid down u Trak filter d and cut d Viscosity: 7 32 deg Inc, 2 112,875 61 7,189 of the hole w hith Tru Trak eTrak from ble, hole beg le with stan or run in the I e with TrueT 100 bph at ng tight, losi	h TrueTrak from 6975 Tru Trak and bit # 10!nstalled new 4 1/2" rt rilling line.Ran in the ho 3 Filtrate: 5.4 21 deg Az; Well Costs (S Completion Days: Hole Drilled (ft): //th Tru Trak. (to 7010'. Cooled Tru 7010' to 7189'. Began gan to pack off at 718	Made up new Topp. Ran BHA I ole to 2442'. Trak at the sh to lose 15/20 i ole again from 010'. Cooled Tray. Began to lose out of the hole of 6970'. Pulled	5,195,117 Workover Days: 9 Ave ROP: oe. (5 hrs) bph of mud at 7086 at, losing mud. Sing 15750 to 5550'. (2 ru Trak at the shoe, hole began to pace, hole began to pace, hole began to pace.	1. sted Tru 10.8 0', then gled out 2.5 hrs) Drilled d at ck off at
09-Mar-09	Slipped and cut of Ran in the hole to Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days: Current Depth (to Current Ops: Operation Summer Continue to run in Drilled 12 1/4" hot 100 bph at 7180' Began to single of 6970'. Pulled of	drilling line. (o 2442'. (1 I Drilled 12 1 of the hole. Cleaned Tr Trak.Slippe MW: 9.7 6955ft - 9.3 ft): Pulled out of the hole with True out of the hole with True out of the hole to 12 1/4" hole 7080', then 7180', pullir from 6970'.	(2 hrs) hrs) hrs) 1/4" hole wit Laid down tu Trak filter d and cut d Viscosity: 7 32 deg Inc, 2 112,875 61 7,189 of the hole w hith Tru Trak Prak from 1 ole, hole beg ele with stan or un in the le with True 100 bph at ng tight, losi Tight hole Tight hole	h TrueTrak from 6975 Tru Trak and bit # 10. Installed new 4 1/2" rt rilling line.Ran in the ho 3 Filtrate: 5.4 21 deg Az; Well Costs (\$ Completion Days: Hole Drilled (ft): //ith Tru Trak. (to 7010'. Cooled Tru //010' to 7189'. Began gan to pack off at 718 dds from 6970'. Tight hole with Tru Trak to 7/ Trak from 7010' to 718/ 7180'. Began to single ing mud. Singled out to	Made up new Topp. Ran BHA I ole to 2442'. Trak at the sh to lose 15/20 i ole again from 010'. Cooled Tray. Began to lose out of the hole of 6970'. Pulled	5,195,117 Workover Days: 9 Ave ROP: oe. (5 hrs) bph of mud at 7086 at, losing mud. Sing 15750 to 5550'. (2 ru Trak at the shoe, hole began to pace, hole began to pace, hole began to pace.	1. sted Tru 10.8 0', then gled out 2.5 hrs) Drilled d at ck off at
09-Mar-09	Slipped and cut of Ran in the hole to Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days: Current Depth (10 Current Ops: Operation Summ Continue to run in Drilled 12 1/4" ho 100 bph at 7180' Began to single of 6970'. Pulled of Comments:	drilling line. (o 2442'. (1 line) o 3442'. (1 li	(2 hrs) hrs) hrs) 1/4" hole with Laid down ru Trak filter d and cut d Viscosity: 7 32 deg Inc, 2 112,875 61 7,189 of the hole with Tru Trak eTrak from 1 of the hole beg ele with stand run in the I e with True 100 bph at ng tight, losi Tight hole a Viscosity: 7 32 deg Inc, 32 deg Inc,	h TrueTrak from 6975 Tru Trak and bit # 10Installed new 4 1/2" rt rilling line.Ran in the ho 3 Filtrate: 5.4 21 deg Az; Well Costs (\$ Completion Days: Hole Drilled (ft): .ith Tru Trak. c to 7010'. Cooled Tru 7010' to 7189'. Began gan to pack off at 718 dds from 6970'. Tight hole with Tru Trak to 76 Trak from 7010' to 7189 7180'. Began to single sing mud. Singled out to again from 5750 to 555 2 Filtrate: 4.9 22.69 deg Az; 7081ft	Made up new Topp. Ran BHA is pole to 2442'. Trak at the shat to lose 15/20 is 30', pulling tightole again from 010'. Cooled Tright Began to lose out of the hole of 6970'. Pulled 50'.	5,195,117 Workover Days: 9 Ave ROP: oe. (5 hrs) bph of mud at 7080 at, losing mud. Sing 5750 to 5550'. (2 ru Trak at the shoe. e 15/20 bph of muc e, hole began to pacout of the hole with	1. sted Tru 10.6 10.6 0', then gled out 2.5 hrs) Drilled d at ck off at stands
09-Mar-09	Slipped and cut of Ran in the hole to Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days: Current Depth (to Current Ops: Operation Summon Continue to run in Drilled 12 1/4" ho 100 bph at 7180' Began to single of to 6970'. Pulled of Comments: Mud Data:	drilling line. (o 2442'. (1 I Drilled 12 1 of the hole Cleaned Tr Trak.Slippe MW: 9.7 6955ft - 9.3 ft): Pulled out of the hole with True out of the hole with True to 12 1/4" hole 7080', then 7180', pullif from 6970'. MW: 9.8 7018ft - 10.	(2 hrs) hrs) hrs) 1/4" hole with Laid down ru Trak filter d and cut d Viscosity: 7 32 deg Inc, 2 112,875 61 7,189 of the hole with Tru Trak eTrak from 1 of the hole beg ele with stand run in the I e with True 100 bph at ng tight, losi Tight hole a Viscosity: 7 32 deg Inc, 32 deg Inc,	h TrueTrak from 6975 Tru Trak and bit # 10Installed new 4 1/2" rt rilling line.Ran in the ho 3 Filtrate: 5.4 21 deg Az; Well Costs (\$ Completion Days: Hole Drilled (ft): .ith Tru Trak. c to 7010'. Cooled Tru 7010' to 7189'. Began gan to pack off at 718 dds from 6970'. Tight hole with Tru Trak to 76 Trak from 7010' to 7189 7180'. Began to single sing mud. Singled out to again from 5750 to 555 2 Filtrate: 4.9 22.69 deg Az; 7081ft	Made up new Topp. Ran BHA I oble to 2442'. Trak at the ship to lose 15/20 in the lose 15/20 in the lose 15/20 in the lose out of the hole of 6970'. Pulled in the lose in the	5,195,117 Workover Days: 9 Ave ROP: oe. (5 hrs) bph of mud at 7080 at, losing mud. Sing 5750 to 5550'. (2 ru Trak at the shoe. e 15/20 bph of muc e, hole began to pacout of the hole with	1. sted Tru 10.6 10.6 0', then gled out 2.5 hrs) Drilled d at ck off at stands
09-Mar-09	Slipped and cut of Ran in the hole to Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days: Current Depth (1 Current Ops: Operation Summ Continue to run i Drilled 12 1/4" ho 100 bph at 7180' Began to single of 6970'. Pulled of Comments: Mud Data: Surveys:	drilling line. (o 2442'. (1 I Drilled 12 1 of the hole Cleaned Tr Trak.Slippe MW: 9.7 6955ft - 9.3 ft): Pulled out of the hole with True out of the hole with True to 12 1/4" hole 7080', then 7180', pullif from 6970'. MW: 9.8 7018ft - 10.	(2 hrs) hrs) hrs) Laid down u Trak filter d and cut d Viscosity: 7 32 deg Inc, 2 112,875 61 7,189 of the hole w ith Tru Trak ele, hole beg ele with stan o run in the I e with TrueT 100 bph at 100 bph at Tight hole a Viscosity: 7 32 deg Inc, nc, 20.7 deg	h TrueTrak from 6975 Tru Trak and bit # 10. Installed new 4 1/2" rt rilling line.Ran in the ho 3 Filtrate: 5.4 21 deg Az; Well Costs (\$ Completion Days: Hole Drilled (ft): with Tru Trak. In to 7010'. Cooled Tru 7010' to 7189'. Began gan to pack off at 718 rids from 6970'. Tight hale with Tru Trak to 70 Frak from 7010' to 7180 7180'. Began to single fing mud. Singled out to fing mud. Singled o	Made up new Topp. Ran BHA I oble to 2442'. Trak at the ship to lose 15/20 in the lose 15/20 in the lose 15/20 in the lose out of the hole of 6970'. Pulled in the lose in the	5,195,117 Workover Days: 9 Ave ROP: oe. (5 hrs) bph of mud at 7080 at, losing mud. Sing 15750 to 5550'. (2 ru Trak at the shoe. e 15/20 bph of muc e, hole began to pacout of the hole with	1. sted Tru 10.8



Well ID: Aidlin # 12

Calpine

Well Name: Aidlin #12

Field: Gevsers

Sect: 32 Town: 12 N Rng: 9 W County: Sonoma State: CA

Operation Summary:

Tripped out of hole with TrueTrak. (8 hrs)

Built sawtooth sub with welder. (2 hrs)

Tripped in hole with sawtooth, picked up drill pipe to 7160'. (5 hrs)

Rigged up Haliburton. Set cement plug #3 265 linear feet cip. 15:30. (1 hrs)

Tripped out of hole to 6397' pipe plugged, rigged up Haliburton. Cleared pipe with 4500 psi, (1.5 hrs)

Installed pipe wiper pumped pipe wiper and circulated with no losses. (1.5 hrs)

Tripped out of hole with sawtooth. (4 hrs)

Made up TrueTrak and checked filter sub. (1 hrs)

Comments:

Tripped out of hole with TrueTrak.Built sawtooth sub with welder.Tripped in hole with

sawtooth picked up drill pipe to 7160'. Rigged up Haliburton. Set cement plug #3 265 linear feet cip:15:30. Tripped out of hole to 6397, pipe plugged ,rigged up

Haliburton. Cleared pipe with 4500 psi. Installed pipe wiper pumped pipe wiper and circulated with no losses. Tripped out of hole with sawtooth. Made up TrueTrak and

checked filter sub.

Mud Data:

MW: 9.6 Viscosity: 57 Filtrate: 5.4

Surveys:

None

Daily Costs (\$):

117,229

Well Costs (\$):

5.385.169

Drilling Days:

Completion Days: 63

Workover Days:

0

0

11-Mar-09

Current Depth (ft):

7.189

Hole Drilled (ft):

Ave ROP:

Current Ops:

Worked stuck pipe @6919'. Waited on Tiger Wireline and Baker fishing tools.

Operation Summary:

Made up bha, moved jars. (7 hrs)

Tripped in hole pipe took wieght @ 5550'. (3.5 hrs)

Reamed from 5550' to 5600'. (0.5 hrs)

Tripped in hole,tagged stringer @ 6336'. (0.5 hrs)

Circulated out thick mud, cleaned out stringers from 6336' to 6408'. (2 hrs)

Tripped in hole,pipe took weight @ 6934'. (0.5 hrs)

Made up kelly pipe stuck and packed off @ 6934'. Worked pipe up to 6919'. (10 hrs)

Comments:

Made up bha.moved jars. Tripped in hole, pipe took wieght @ 5550'. Reamed from 5550' to 5600'. Tripped in hole, tagged stringer @ 6336'. Circulated out thick mud, cleaned out stringers from 6336' to 6408'. Tripped in hole, pipe took weight @ 6934'. Made up

kelly,pipe stuck and packed off @ 6934'. Worked pipe up to 6919'.

Mud Data:

MW: 9.5 Viscosity: 75 Filtrate: 7.4

Surveys:

None

63,768

Well Costs (\$):

5,448,937

Daily Costs (\$): **Drilling Days:**

Completion Days:

0 Workover Days: 0

12-Mar-09

7,189

Hole Drilled (ft):

Ave ROP:

Current Ops:

Made up and ran backoff shot #2. Shot failed Pulled out shot tool. Waited on Tiger

Wireline. Jarred and worked stuck pipe.

Operation Summary:

Current Depth (ft):

Jarred and worked stuck pipe @ 6919'. (10 hrs)

Removed kelly and Baker mud screen. (2 hrs)

Waited on Tiger Wireline. (1 hrs)

Rigged up Tiger Wireline Ran gage and temp to top of float sub @ 6841', Ran freepoint , cement in drill pipe @ 5300' to 5400' causing spring failure in freepoint tool .Reran freepoint.Collars free @ 6710' Bit, True Trak, adapter sub, mwd, filter sub, float sub, shock sub, 3-9" drill collars, cross over, and 1-8"

drill collar would be left in hole. (7 hrs)

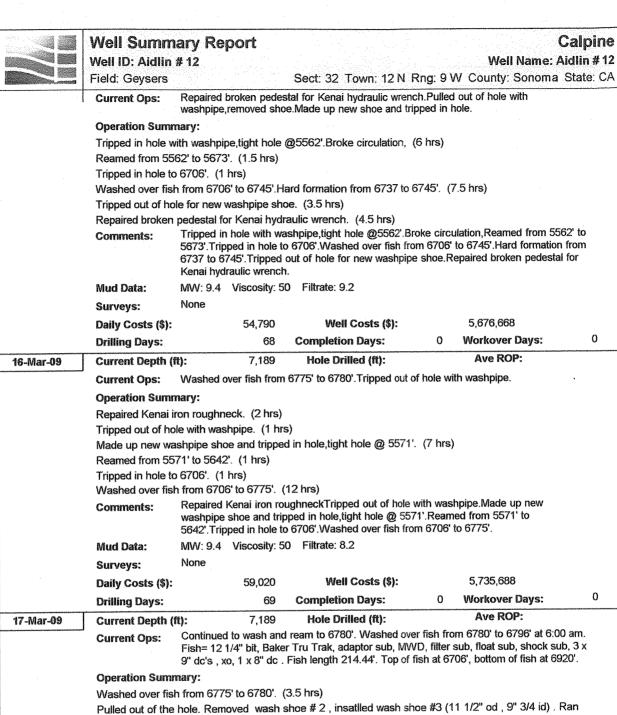
Ran backoff shot #1 to 6710', attempted to shoot off drill collar, shot failed. Pulled out shot tool. (3 hrs) Made up backoff shot #2. (1 hrs)

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RIMBase

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	Well Summ Well ID: Aidlin		ort			C Well Name: Aid	alpine dlin#12
	Field: Geysers			Sect: 32 Town: 12 N F	Rng: 9 \	N County: Sonoma S	State: CA
· ·	Comments:	Tiger Wirel 6841',Ran freepoint to sub,float su hole.Ran bi	ine.Rigged if freepoint ,ce ol .Reran fr ub,shock sui	ck pipe @ 6919'.Removed keep Tiger Wireline.Ran gage at the time of ti	and temp 5400' ci Bit, True and 1-8'	o to top of float sub @ ausing spring failure in Trak,adapter sub,mwd,filf ' drill collar would be left in	ter n
	Mud Data:	MW: 9.4	Viscosity: 1	05 Filtrate: 7.8			
	Surveys:	None					
	Daily Costs (\$):		61,373	Well Costs (\$):		5,510,310	
	Drilling Days:		65	Completion Days:	0	Workover Days:	0
13-Mar-09	Current Depth (f	t):	7,189	Hole Drilled (ft):		Ave ROP:	
	Current Ops:	sub,mwd,fil	lter sub,float	own 1-8" drill collar.Left in h t sub,shock sub,3-9" drill coll hole to 5000'.Slipped and cu	ars,cros	s over,and 1-8" drill collar.	
	Operation Sumn						
		_		.Pulled out shot. (3 hrs)			•
	Worked and jarre		• •	- O CC701 b - d days b	ala ta G	70Cl Dullad and	
	freepoint.Ran sin	ker bars an	d chisel,pus	pe @ 6679'.pushed down h shed primacord to 6833'.pull I.pulled out shot. (3 hrs)			
	Circulated bottom	ıs up @ 671	0'. (1.5 hrs	s)			
	Tripped out of ho	le checking	connection	e I aid down 10 ininte drill n	dina with	multiple Managed 17 C form	.1
	Comments:	Ran backol	f shot #2 @	6710',shot failed.Pulled out	shot.Wo	rked and jarred stuck	·)
	Comments:	Ran backof pipe.Ran fr 6706'.Pulle out of hole. up @ 6710 galled threa	if shot #2 @ eepoint tagg d out freepo Ran backoff '.Tripped ou ds.	e 6710', shot failed. Pulled out ged primacord left in pipe @ sint. Ran sinker bars and chis f shot #3 @ 6710' successfut of hole checking connection	shot.Wo 6679'.pu el,pushe l.pulled (rked and jarred stuck ished down hole to id primacord to 6833'.pulk out shot.Circulated bottom	ed Is
	Comments: Mud Data:	Ran backof pipe.Ran fr 6706'.Pulle out of hole. up @ 6710 galled threa MW: 9.5	if shot #2 @ eepoint tagg d out freepo Ran backoff '.Tripped ou ds.	6710',shot failed.Pulled out ged primacord left in pipe @ int.Ran sinker bars and chis f shot #3 @ 6710' successfu	shot.Wo 6679'.pu el,pushe l.pulled (rked and jarred stuck ished down hole to id primacord to 6833'.pulk out shot.Circulated bottom	ed Is
	Comments: Mud Data: Surveys:	Ran backof pipe.Ran fr 6706'.Pulle out of hole. up @ 6710 galled threa	if shot #2 @ eepoint tagg d out freepo Ran backoff '.Tripped ou ds. Viscosity: 8	6710',shot failed.Pulled out ged primacord left in pipe @ sint.Ran sinker bars and chis f shot #3 @ 6710' successfut of hole checking connection #4 Filtrate: 10.5	shot.Wo 6679'.pu el,pushe l.pulled (rked and jarred stuck ished down hole to id primacord to 6833' pulk out shot.Circulated bottom down 10 joints drill pipe wi	ed Is
	Comments: Mud Data: Surveys: Daily Costs (\$):	Ran backof pipe.Ran fr 6706'.Pulle out of hole. up @ 6710 galled threa MW: 9.5	if shot #2 @ eepoint tagg d out freepo Ran backoff f. Tripped out ds. Viscosity: 8	6710',shot failed.Pulled out ged primacord left in pipe @ int.Ran sinker bars and chis f shot #3 @ 6710' successfut of hole checking connectio Filtrate: 10.5 Well Costs (\$):	shot.Wo 6679'.pu el,pushe Il.pulled ns.Laid	orked and jarred stuck ished down hole to ished down hole to id primacord to 6833' pulk out shot. Circulated bottom down 10 joints drill pipe wi	ed is ith
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14-Mar-09	Mud Data: Surveys: Daily Costs (\$): Drilling Days: Current Depth (f Current Ops: Operation Summ Pulled out bha ch Made up screw ir Circulated bottom Jarred on fish @ Tripped out of ho Made up 3 joints Comments:	Ran backof pipe.Ran fr 6706'.Pulle out of hole. up @ 6710 galled threa MW: 9.5 None 1): 0-6 A.M.Tri nary: necking conr n bha and tri ns up. (1.5 h 6706',unscr le checking of 10 3/4'w Pulled out l 6706'.Circu hole checki	if shot #2 @ eepoint tagg d out freepo Ran backoff f. Tripped out ds. Viscosity: 8 55,014 66 7,189 ipped in hole nections. (2 pped in hole nrs) rewed from connections ashpipe and oha checkin ilated botton ing connections	e 6710', shot failed. Pulled out ged primacord left in pipe @ sint. Ran sinker bars and chis f shot #3 @ 6710' successful of hole checking connection 4 Filtrate: 10.5 Well Costs (\$): Completion Days: Hole Drilled (ft): e, tight hole @ 5562'. Broke of the filtrate of	shot.Wo 6679'.pu el,pushe il.pulled o ns.Laid o o irculation	and tripped in hole to ved from fish. Tripped out	ed is sith
14-Mar-09	Mud Data: Surveys: Daily Costs (\$): Drilling Days: Current Depth (f Current Ops: Operation Summ Pulled out bha ch Made up screw ir Circulated bottom Jarred on fish @ Tripped out of ho Made up 3 joints Comments:	Ran backof pipe.Ran fr 6706'.Pulle out of hole. up @ 6710 galled threa MW: 9.5 None 1): 0-6 A.M.Tri nary: necking conr n bha and tri ns up. (1.5 h 6706',unscr le checking of 10 3/4'w Pulled out l 6706'.Circu hole checki	if shot #2 @ eepoint tagg d out freepo Ran backoff f. Tripped out ds. Viscosity: 8 55,014 66 7,189 ipped in hole nections. (2 pped in hole nrs) rewed from connections ashpipe and oha checkin ilated botton ing connections	e 6710', shot failed. Pulled out ged primacord left in pipe @ sint. Ran sinker bars and chis f shot #3 @ 6710' successful of hole checking connection. 4 Filtrate: 10.5 Well Costs (\$): Completion Days: Hole Drilled (ft): e, tight hole @ 5562'. Broke coll. chrs) e to 6706'. (7 hrs) fish. (5 hrs) fish. (5 hrs) fish. (5 hrs) fish. (5 hrs) fish. (5 hrs) fig connections. Made up screens up. Jarred on fish @ 6706'	shot.Wo 6679'.pu el,pushe il.pulled o ns.Laid o o irculation	and tripped in hole to ved from fish. Tripped out	ed is sith
14-Mar-09	Mud Data: Surveys: Daily Costs (\$): Drilling Days: Current Depth (f Current Ops: Operation Summ Pulled out bha ch Made up screw in Circulated bottom Jarred on fish @ Tripped out of ho Made up 3 joints Comments: Mud Data: Surveys:	Ran backof pipe.Ran fr 6706'.Pulle out of hole. up @ 6710 galled threa MW: 9.5 None 10-6 A.M.Tri nary: necking conr h bha and tri ns up. (1.5 h 6706',unsci le checking of 10 3/4"w Pulled out l 6706'.Circu hole checki MW: 9.5	if shot #2 @ eepoint tagg d out freepo Ran backoff '.Tripped out ds. Viscosity: 8 55,014 66 7,189 ipped in hole mections. (2 pped in hole mrs) rewed from connections ashpipe and oha checkin illated botton ing connecti Viscosity: 5	e 6710', shot failed. Pulled out ged primacord left in pipe @ sint. Ran sinker bars and chis f shot #3 @ 6710' successful of hole checking connection. Well Costs (\$): Completion Days: Hole Drilled (ft): e, tight hole @ 5562'. Broke colors. I hrs) e to 6706'. (7 hrs) I washpipe shoe. (1.5 hrs) g connections. Made up screens up. Jarred on fish @ 6706 ons. Made up 3 joints of 10 3 7 Filtrate: 9.4	shot.Wo 6679'.pu el,pushe il.pulled o ns.Laid o o irculation	and tripped in hole to ved from fish. Tripped out	ed is sith
14-Mar-09	Mud Data: Surveys: Daily Costs (\$): Drilling Days: Current Depth (f Current Ops: Operation Summ Pulled out bha ch Made up screw ir Circulated bottom Jarred on fish @ Tripped out of ho Made up 3 joints Comments:	Ran backof pipe.Ran fr 6706'.Pulle out of hole. up @ 6710 galled threa MW: 9.5 None 10-6 A.M.Tri nary: necking conr h bha and tri ns up. (1.5 h 6706',unsci le checking of 10 3/4"w Pulled out l 6706'.Circu hole checki MW: 9.5	if shot #2 @ eepoint tagg d out freepo Ran backoff f. Tripped out ds. Viscosity: 8 55,014 66 7,189 ipped in hole nections. (2 pped in hole nrs) rewed from connections ashpipe and oha checkin ilated botton ing connections	e 6710', shot failed. Pulled out ged primacord left in pipe @ sint. Ran sinker bars and chis f shot #3 @ 6710' successful of hole checking connection 4 Filtrate: 10.5 Well Costs (\$): Completion Days: Hole Drilled (ft): e, tight hole @ 5562'. Broke of the filtrate of	shot.Wo 6679'.pu el,pushe il.pulled o ns.Laid o o irculation	and tripped in hole to wed from fish. Tripped out pipe and washpipe shoe.	ed is ith



in the hole to 6706' (top of fish). (15 hrs)

Worked over top of fish at 6706'. Washed and reamed from 6736' to 6760'. (5.5 hrs)

Washed over fish from 6775' to 6780'. Pulled out of the hole. Removed wash shoe # 2 . Comments:

insatlled wash shoe #3 (11 1/2" od , 9" 3/4 id) . Ran in the hole to 6706' (top of fish).

Washed and reamed from 6736' to 6760'.

MW: 9.5 Viscosity: 60 Filtrate: Mud Data:

None Surveys:

200,094 Daily Costs (\$):

Well Costs (\$):

5,935,781

Drilling Days:

70 Completion Days: Workover Days:

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0



Well ID: Aidlin # 12

Field: Gevsers

Calpine

Well Name: Aidlin #12

Sect: 32 Town: 12 N Rng: 9 W County: Sonoma State: CA

18-Mar-09

Current Depth (ft):

7.189

Hole Drilled (ft):

Ave ROP:

Current Ops:

Made up shot # 1 ran into bottom of the first 8" dc at 6736', unscrewed from fish while attempting to work in left hand torque. Tiger wire line was damaged. Screwed back into fish, made shot #1, finished back off. Tiger wire line truck was unable to prove depth off backoff. Pulled out of the hole, torquing all breaks. Continued to wash and ream to 6780'. Washed over fish from 6780' to 6796' at 6:00 am.

Fish= 12 1/4" bit, Baker Tru Trak, adaptor sub, MWD, filter sub, float sub, shock sub, 3 x 9" dc's, xo, 1 x 8" dc. Fish length 214.44'. Top of fish at 6706', bottom of fish at 6920'.

Operation Summary:

Continued to ream over fish with washover shoe #3 from 6760' to 6778'. Wash over fish from 6778' to 6796', which is 4' above the bottom of the #2 x9" dc. (8.5 hrs)

Pulled out of the hole, stood back 10 3/4" wash pipe. Made up circ and screwin sub, changed out the jars. Ran back in the hole top of fish at 6706'. (12 hrs)

Screwed into top of fish at 6706'. Jarred on fish with no progress. (1.5 hrs)

Rigged up Tiger wire line truck. Ran freepoint tool that stopped at 6750' which is the middle of the first 9" drill collar, due to plugged fish. Ran wire line spud bar and spang jars to 6750' and attempted to work thur debris. Attempt failed. (2 hrs)

Comments:

Continued to ream over fish with washover shoe #3 from 6760' to 6778'. Wash over fish from 6778' to 6796', which is 4' above the bottom of the #2 x9" dc. Pulled out of the hole, stood back 10 3/4" wash pipe. Made up circ and screwin sub, changed out the jars. Ran back in the hole top of fish at 6706'. Screwed into top of fish at 6706'. Jarred on fish with no progress. Rigged up Tiger wire line truck. Ran freepoint tool that stopped at 6750', which is the middle of the first 9" drill collar, due to plugged fish. Ran wire line spud bar and spang jars to 6750' and attempted to work thur debris. Attempt failed.

Mud Data:

MW: 9.5 Viscosity: 76 Filtrate: 8.8

Survevs:

None

Daily Costs (\$):

85,133

Well Costs (\$):

6,020,915

Drilling Days:

71 Completion Days:

Workover Days:

0

19-Mar-09

Current Depth (ft):

7.189 Hole Drilled (ft):

.....

Ave ROP:

Current Ops:

Pulled out of the hole. Made up sawtooth sub. Ran in the hole to 1800' at 6:00 am. Fish= 12 1/4" bit, Baker Tru Trak, adaptor sub, MWD, filter sub, float sub, shock sub, 3 x 9" dc's, xo, 1 x 8" dc. Fish length 183.44'. Top of fish at 6737', bottom of fish at 6920'.

Operation Summary:

Made up shot # 1 ran into bottom of the first 8" dc at 6736', unscrewed from fish while attempting to work in left hand torque. Tiger wire line was damaged. Screwed back into fish, made shot #1, finished back off. Tiger wire line truck was unable to prove depth off backoff. (5 hrs)

Pulled out of the hole , torquing all breaks. Found two loose joints of drill pipe. Retieved 1x8" drill collar. Top of fish at 6737'. (8 hrs)

Laid down and loaded all fishing tools and wash pipe. (4 hrs)

Made up 12 1/4" mill tooth bit and ran in the hole , filled pipe at the shoe. Ran in the hole to top of fish at 6737'. (5 hrs)

Circulated and conditioned mud at 6737'. (2 hrs)

Comments:

Made up shot # 1 ran into bottom of the first 8" dc at 6736', unscrewed from fish while attempting to work in left hand torque. Tiger wire line was damaged. Screwed back into fish, made shot #1, finished back off. Tiger wire line truck was unable to prove depth off backoff. Pulled out of the hole, torquing all breaks. Found two loose joints of drill pipe. Retieved 1x8" drill collar. Top of fish at 6737'.Laid down and loaded all fishing tools and wash pipe.Made up 12 1/4" mill tooth bit and ran in the hole, filled pipe at the shoe. Ran in the hole to top of fish at 6737'.Circulated and conditioned mud at 6737'.

Mud Data:

MW: 9.6 Viscosity: 76 Filtrate: 8.1

Surveys:

None

Daily Costs (\$):

58.884

Well Costs (\$):

6,079,799

Drilling Days:

72 Completion Days:

0 Workover Days:

0



Well ID: Aidlin #12

Field: Gevsers

Calpine

Well Name: Aidlin #12

Sect: 32 Town: 12 N Rng: 9 W County: Sonoma State: CA

20-Mar-09

Current Depth (ft):

7,189

Hole Drilled (ft):

Ave ROP:

Current Ops:

Finished with magna fluxing and building BHA. Ran in the hole, Reamed from 5009' to 5200' at 6:00 am.

Operation Summary:

Pulled out of the hole. Stood back BHA. Made up sawtooth sub on drill pipe. Ran in the hole to 6737'.

Circulated to cool hole at 6737'. Rigged up Howco. (2 hrs)

Tailboard. With sawtooth at 6730', Howco mixed and pumped cement plug # 4 as follows, 40 bbls of H2O, 31 bbls (215 lin ft) of 15 # " Plugchem System" cement, displaced with 4 bbls of H2O spacer, then 61 bbls of 9.4 # rig mud. Cement in place at 10:30 am. (1 hrs)

Pulled out of the hole to 6000'. Installed drill pipe wiper ball, pumped 70 bbls of mud with Howco to clean drill pipe. Continued to pull out of the hole, laying down working drill pipe. (7 hrs)

Magna flux inspect drill collars, lifters, subs, kelly pin and make up 12 1/4" reaming BHA.and make up 12 1/4" reaming BHA. Found cracked saver sub pin. (6 hrs)

Comments:

Pulled out of the hole. Stood back BHA. Made up sawtooth sub on drill pipe. Ran in the hole to 6737'. Circulated to cool hole at 6737'. Rigged up Howco. Tailboard. With sawtooth at 6730', Howco mixed and pumped cement plug # 4 as follows, 40 bbls of H2O, 31 bbls (216 lin ft) of 15 # " Plugchem System" cement, displaced with 4 bbls of H2O spacer, then 61 bbls of 9.4 # rig mud. Cement n place at 10:30 am. Pulled out of the hole to 6000'. Installed drill pipe wiper ball, pumped 70 bbls of mud with Howco to clean drill pipe. Continued to pull out of the hole, laying down working drill pipe(total 56 its). Magna flux inspect drill collars, lifters, subs, kelly pin and make up 12 1/4" reaming BHA. Found cracked saver sub pin.

Mud Data:

None

Surveys:

None

Daily Costs (\$): **Drilling Days:**

Current Ops:

116,378

73

Well Costs (\$):

Completion Days:

6.196.177

Workover Days:

21-Mar-09

Current Depth (ft):

7,189 Hole Drilled (ft): Ave ROP:

0

Reamed from 6230' to top of cement plug # 4 at 6545'.

Operation Summary:

Continued maga fluxing and building 12 1/4" reaming BHA. (2 hrs)

Ran in the hole to 5009'. (2 hrs)

Reamed 12 1/4" hole from 5009' to 5627'. Tight hole. (7 hrs)

Unable to proceede any depper due to unstable Argillite formation. Circulated and conditioned mud. Brought visc up to 72, mud weight to 9.7, Resinex 2/3 #/ bbl. (2 hrs)

Reamed to 5880', tight hole. (4 hrs)

Circulated out unstable Argillite formation at 5880'. (3 hrs)

Reamed to 6230'. (4 hrs)

Comments:

Continued maga fluxing and building 12 1/4" reaming BHA. Ran in the hole to 5009'. Reamed 12 1/4" hole from 5009' to 5627'. Tight hole. Unable to proceede any depper due to unstable Argillite formation. Circulated and conditioned mud. Brought visc up to 72, mud weight to 9.7, Resinex 2/3 #/ bbl.Reamed to 5880', tight hole.Circulated

out unstable Argillite formation at 5880'. Reamed to 6230'.

Mud Data:

MW: 9.6 Viscosity: 75 Filtrate: 7.7

Surveys: Daily Costs (\$):

61,239

Well Costs (\$):

6,257,416

Drilling Days:

74

Completion Days: Hole Drilled (ft): Workover Days:

O

0

22-Mar-09

Current Depth (ft):

7.189

Ave ROP:

Current Ops:

None

Finish making up directional tools, MWD tested good. Rig SCR failed to run both rig

pumps. Rig on down time, waiting on electrican from Bakersfield to arrive.

Operation Summary:

Continued to ream from 6230' to top of cement plug # 4 at 6545'. (6 hrs)

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RIMBase

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Well ID: Aidlin # 12

Field: Gevsers

Calpine

Well Name: Aidlin #12

Sect: 32 Town: 12 N Rng: 9 W County: Sonoma State: CA

Circulated and conditioned mud to drill out cement. (1 hrs)

Clean out cement plug # 4 fromm 6545' to 6610'. Plug was hard. (1 hrs)

Circulated to clean hole. (3 hrs)

Pulled out of the hole to the shoe. (1 hrs)

None

Circulated. (2 hrs)

Ran in the hole (no tight spots) to 6590', had 20' of fill. (1 hrs)

Cleaned out fill to 6610', circulated hole clean, pumped sweep. (3 hrs)

Pulled out of the hole (no tight spots). Laid down reaming assembly. Began to make up directional tools. (6 hrs)

Comments:

Continued to ream from 6230' to top of cement plug # 4 at 6545'. Circulated and conditioned mud to drill out cement Clean out cement plug # 4 fromm 6545' to 6610'.

Plug was hard. Circulated to clean hole. Pulled out of the hole to the shoe.

Circulated Ran in the hole (no tight spots) to 6590', had 20' of fill Cleaned out fill to 6610', circulated hole clean , pumped sweep. Pulled out of the hole (no tight spots). Laid

down reaming assembly. Began to make up directional tools.

Mud Data:

MW: 9.6 Viscosity: 72 Filtrate: 7.1

Survevs: Daily Costs (\$):

57,751

Well Costs (\$):

6,315,167

Drilling Days:

75 Completion Days: Workover Days:

0

0

23-Mar-09

24-Mar-09

Current Depth (ft):

7,189

Hole Drilled (ft):

Ave ROP:

Current Ops:

Ran in the hole tagged tight hole at 5676'. Reamed from 5676' to 5751' due to unstable

sloughing Argillite. Pulled out of the hole.

Operation Summary:

Finish making up directional tools. Ran in the hole to 1373'. (2.5 hrs)

The rig #3 SCR electrical panel failed. Made repairs to the SCR. (18 hrs)

Ran in the hole filling the pipe every 15 stands to cool mud motor. (3.5 hrs)

Comments:

Finish making up directional tools. Ran in the hole to 1373'. The rig # 3 SCR electrical

panel failed. Made repairs to the SCR. Ran in the hole filling the pipe every 15 stands to

cool mud motor.

Nud Data:

MW: 9.6 Viscosity: 74 Filtrate: 7

6.610

Surveys:

574.550

Well Costs (\$):

6.889.717

Daily Costs (\$): **Drilling Days:**

76

Completion Days:

Workover Days:

Current Depth (ft):

Hole Drilled (ft):

Ave ROP: -579

0

Current Ops:

Circulated bottoms up. Wiped hole to 5000'. Tripped in hole ,tagged fill @ 6585'. Cleaned

out to 6610'. Circulated bottoms up. Tripped out of hole for mud motor.

Operation Summary:

Tripped in hole,tagged bridge @ 5626'. (1.5 hrs)

Cleaned out bridge from 5626' to 5751'. (2 hrs)

Tripped out of hole for rotary bha. (4.5 hrs)

Made up rotary bha and tripped in hole,tagged bridge @ 5751'. (5.5 hrs)

Cleaned out bridge from 5751' to 5924'. (2 hrs)

Tripped in hole to 6114'. Cleaned out bridges and reamed from 6114' to 6610'. (8.5 hrs)

Comments:

Tripped in hole,tagged bridge @ 5626'.Cleaned out bridge from 5626' to 5751'.Tripped out of hole for rotary bha. Made up rotary bha and tripped in hole, tagged bridge @ 5751'. Cleaned out bridge from 5751' to 5924'. Tripped in hole to 6114'. Cleaned out

bridges and reamed from 6114' to 6610'.

Mud Data:

MW: 9.5 Viscosity: 72 Filtrate: 7.1

Surveys:

64 829 Daily Costs (\$):

Well Costs (\$):

6,954,546

	Well Summ		ort			(Well Name: A	Calpine			
~ \L	Well ID: Aidlin Field: Geysers	# 12		Sect: 32 Town: 12 N	Rng: 9 \					
	Drilling Days:		77	Completion Days:	0	Workover Days:	0			
25-Mar-09	Current Depth ((ft):	6,610	Hole Drilled (ft):		0 Ave ROP:				
	Current Ops: Reamed and washed from 6416' to 6610'. Time drilled from 6610' to 6617'.									
	Operation Summary:									
	Circulated bottoms up @ 6610'. (1.5 hrs)									
	Wiped hole from 5000' to 6585'. Cleaned out to 6610'. (3 hrs)									
	Circulated bottoms up @ 6610'. (1.5 hrs)									
	Tripped out of hole. (6 hrs)									
	Made up mud motor and tripped in hole,tight hole @ 5636'. (5.5 hrs)									
	Reamed and washed from 5636' to 6416' working pipe from derrick. (6.5 hrs)									
	Comments: Circulated bottoms up @ 6610'.Wiped hole from 5000' to 6585'.Cleaned out to 6610'.Circulated bottoms up @ 6610'.Tripped out of hole.Made up mud motor and tripped in hole,tight hole @ 5636'.Reamed and washed from 5636' to 6416' working pipe from derrick.									
	Mud Data:	MW: 9.7	Viscosity: 7	8 Filtrate: 6.5						
	Surveys:	None								
	Daily Costs (\$):		59,095	Well Costs (\$):		7,013,641				
	Drilling Days:		78	Completion Days:	0	Workover Days:	0			
26-Mar-09	Current Depth ((ft):	6,641	Hole Drilled (ft):	3	1 Ave ROP:	1.4			
	Current Ops:	Time drilled	from 6641	to 6652'.						
	Operation Summary:									
	Washed and reamed from 6416' to 6610'. (2 hrs)									
	Time drilled sidetrack#1 from 6610' to 6641'. (22 hrs)									
	Comments: Washed and reamed from 6416' to 6610'. Time drilled sidetrack#1 from 6610' to 6641'.									
	Mud Data:	MW: 9.7	Viscosity: 7	0 Filtrate: 6.2						
	Surveys:	None	•							
	Daily Costs (\$):	ı	67,382	Well Costs (\$):		7,081,023				
	Drilling Days:		79	Completion Days:	0	Workover Days:	0			
07 32 00 I		(55).	6,670	Hole Drilled (ft):		9 Ave ROP:	1.8			
27-Mar-09	Current Depth		•	• •	2	J Monton				
	Current Ops: Tripped in hole to 5000'.Slipped and cut drill line.									
	Operation Summary:									
	Time drilled from 6641' to 6670'. (16 hrs) Tripped out of hole,removed kick sub,installed stab and pony collar. (6.5 hrs)									
	Tripped out of hole, removed kick sub, installed stab and pony collar. (6.5 hrs) Made up bha. (1.5 hrs)									
	Comments: Time drilled from 6641' to 6670'. Tripped out of hole, removed kick sub, installed stab and pony collar. Made up bha.									
	Mud Data:	MW: 9.7	Viscosity: 7	2 Filtrate: 6						
	Surveys:	None	•							
	Daily Costs (\$):	:	67,352	Well Costs (\$):		7,148,375				
	Drilling Days:	•	80	Completion Days:	0	Workover Days:	0			
28-Mar-09	Current Depth	(84)·	6,774	Hole Drilled (ft):	10	3 PD 45 PB	6.7			
70-Mai -02	•	• •	0,774 n 6774' to 68	, ,	10					
	Current Ops:		10/14 10/00	Mary Comments of the Comments						
	Operation Sum	mary:								

Tripped in hole to 5000'. (3.5 hrs) Cut and slipped drill line. (2 hrs)

Worked pipe from derrick, tripped in hole to 6575'. (2 hrs)

	Well Summ	항 경험적 나는 하나 화학적 가장 보다는			• 1	Well Name: /	(2) phylodygala, a ben a		
	Field: Geysers			Sect: 32 Town: 12 N Rr	ng: 9 W	/ County: Sonoma	State: CA		
	Reamed from 6575' to 6670'. (1 hrs)								
	Drilled 12 1/4" from 6670' to 6774'. (15.5 hrs)								
	Comments: Tripped in hole to 5000'.Cut and slipped drill line.Worked pipe from derrick,tripped in hole to 6575'.Reamed from 6575' to 6670'.Drilled 12 1/4" from 6670' to 6774'.								
	Mud Data: MW: 9.7 Viscosity: 72 Filtrate: 5.9								
	Surveys: 6610ft - 3.86 deg Inc, 19.1 deg Az; 6682ft - 5.3 deg Inc, 1.4 deg Az;								
	Daily Costs (\$):	82,	524	Well Costs (\$):		7,230,899			
	Drilling Days:		81	Completion Days:	0	Workover Days:	0		
29-Mar-09	Current Depth (ft): 6,	919	Hole Drilled (ft):	145	Ave ROP:	7.3		
	Current Ops:								
	Operation Sumr	nary:							
	•	ole from 6774' to 6	837'.	(8.5 hrs)					
	Circulated and wiped hole from 5000' to 6837'. (4 hrs)								
	Drilled from 6837' to 6919'. (11.5 hrs)								
	Comments:	Drilled 12 1/4" ho 6837' Drilled from		n 6774' to 6837'.Circulated an ' to 6919'.	d wiped	hole from 5000' to			
	Mud Data:	Mud Data: MW: 9.8 Viscosity: 75 Filtrate: 5.3							
	Surveys:	6840ft - 8.9 deg	Inc, 5.5	51 deg Az;					
	Daily Costs (\$):	67,	186	Well Costs (\$):		7,298,086			
	Drilling Days:		82	Completion Days:	0	Workover Days:	0		
30-Mar-09	Current Depth (ft): 7,	083	Hole Drilled (ft):	164	Ave ROP:	6.8		
	Current Ops: Drilled from 7083' to 7090'. Wiped hole to the shoe. Ran back in the hole, bit would not drill. Operation Summary:								
	Drilled 12 1/4" hole from 6919' to 7083'. (24 hrs) Comments: Drilled 12 1/4" hole from 6919' to 7083'.								
	Comments:		ne iron	10919 10 7003.					
	Mud Data:	None							
	Surveys:	None							
	Daily Costs (\$):	65,	986	Well Costs (\$):		7,364,072	0		
	Drilling Days:		83	Completion Days:	0	Workover Days:	0		
31-Mar-09	Current Depth (ft): 7,090 Hole Drilled (ft): 7 Ave ROP: 3.5								
	Current Ops:	Ran in the hole to	o 6581	'. Reamed from 6581' to 6900	' at 6:00	am.			
	Operation Summary:								
	Continued to drill 12 1/4" hole with MWD from 7083' to 7090'. (2 hrs)								
	Circulated. (1 hrs)								
	Pulled out of the hole to the shoe. Ran back in the hole. Unable to drill because of high bit torque, possible slip die in the hole. (4 hrs)								
	Pulled out of the hole, laid down directional drilling tools. Made up 12 $1/4$ " conventional drilling tools and rerun bit . Picked up 3 x 8" drill collars. Ran in to 4586' laying down drill pipe to ream with. (17 hrs)								
	Comments: Continued to drill 12 1/4" hole with MWD from 7083' to 7090'. Circulated. Pulled out of the hole to the shoe. Ran back in the hole. Unable to drill because of high bit torque, possible slip die in the hole. Pulled out of the hole, laid down directional drilling tools. Made up 12 1/4" conventional drilling tools and rerun bit. Picked up 3 x 8" drill collars. Ran in to 4586' laying down drill pipe to ream with.								
	Mud Data:	None	աջությ Ա	own arm pipo to realit with.					
		None							
	Surveys: Daily Costs (\$):		,727	Well Costs (\$):		7,424,800			
	Drilling Days:	50	84	Completion Days:	0	Workover Days:	0		
	minning bays.		U-7			-	2000: 20 of 6		

Calpine **Well Summary Report** Well Name: Aidlin #12 Well ID: Aidlin #12 Sect: 32 Town: 12 N Rng: 9 W County: Sonoma State: CA Field: Gevsers Ave ROP: Hole Drilled (ft): 01-Apr-09 Current Depth (ft): 7.133 Continued to drill from 7133' to 7157', Began losing 200 bph of mud at 7153', lost total **Current Ops:** returns at 7155'. Began to pull out of the hole. **Operation Summary:** Continue to run in the hole to 6581'. (1 hrs) Reamed directional run from 6581' to 7090'. (9 hrs) Drilled 12 1/4" hole from 7090' to 7133'. (14 hrs) Continue to run in the hole to 6581' Reamed directional run from 6581' to 7090' Drilled Comments: 12 1/4" hole from 7090' to 7133'. MW: 9.8 Viscosity: 74 Filtrate: 5.3 Mud Data: 6935ft - 11.1 deg Inc, 8.8 deg Az; 6999ft - 12 deg Inc, 13.8 deg Az; 7030ft - 12.4 deg Surveys: Inc, 15.5 deg Az; 7,495,606 Well Costs (\$): Daily Costs (\$): 70.806 0 Workover Days: **Completion Days: Drilling Days:** 4.2 Ave ROP: Hole Drilled (ft): 02-Apr-09 **Current Depth (ft):** 7,156 Made up new 12 1/4" bit # 13 and BHA. Ran in the hole to the shoe. Circulated and built **Current Ops:** mud volume. **Operation Summary:** Contniued to drill 12 1/4" hole with convetional drilling BHA from 7133' to 7157'. Began losing 200 bph of mud at 7153', lost all returns at 7155'. (5.5 hrs) Pulled out of the hole stood all tools back in the derrick. (6.5 hrs) Slipped and cut the drilling line. (2 hrs) Made up sawtooth sub on drill pipe. Ran in the hole to 7155'. (4 hrs) Tailboard.Pumped 85 bbls of mud to cool and clear drill pipe. Fluid level at 325'. Rigged up Howco mixed and pumped cement plug # 5 as follows, 8 bbls H2O, 22 bbls (140 lin ft)of 15 # "Plugchem System " cement , 8 bbls of H2O spacer, then displaced with 65 bbls of 9.4# mud Hole began to circulate at 48 bbls of displacement. Cement in place at 6:30 pm. (1 hrs) Pulled out of the hole to 6215'. Pumped drill pipe wiper ball thru drill string. (1 hrs) Pulled out of the hole. (4 hrs) Contniued to drill 12 1/4" hole with convetional drilling BHA from 7133' to 7157'. Began Comments: losing 200 bph of mud at 7153', lost all returns at 7155'. Pulled out of the hole stood all tools back in the derrick. Slipped and cut the drilling line. Made up sawtooth sub on drill pipe. Ran in the hole to 7155'. Tailboard.Pumped 85 bbls of mud to cool and clear drill pipe. Fluid level at 325'. Rigged up Howco mixed and pumped cement plug # 5 as follows, 8 bbls H2O, 22 bbls (140 lin ft) of 15 # "Plugchem" cement . 8 bbls of H2O spacer, then displaced with 65 bbls of 9.4# mud. Hole began to circulate at 48 bbls of displacement. Cement in place at 6:30 pm.Pulled out of the hole to 6215'. Pumped down drill pipe wiper ball thru drill string. Pulled out of the hole. Mud Data: MW: 9.7 Viscosity: 78 Filtrate: 5.7 Surveys: Well Costs (\$): 7.503.821 8,215 Daily Costs (\$): 0 Workover Days: **Completion Days: Drilling Days:** 86 6.5 Ave ROP: 75 Hole Drilled (ft): 7.231 03-Apr-09 **Current Depth (ft):** Continue to drill 12 1/4' hole from 7231' to 7256'. Began to lose 200 bph of mud at 7249'. **Current Ops:** Began to pull out of the hole. **Operation Summary:** Made up 12 1/4" BHA and ran in the hole to 5000'. (4 hrs) Circulated and built mud volume. (2 hrs) Ran in the hole to 6830', tagged tight hole. (1.5 hrs)

Reamed from 6830' to top of cement plug # 5 at 7070'. Hole took 7 bbls of cement. (1 hrs)

Circulated bottoms up. (1.5 hrs)

Calpine **Well Summary Report** Well Name: Aidlin #12 Well ID: Aidlin #12 Sect: 32 Town: 12 N Rng: 9 W County: Sonoma State: CA Field: Gevsers Clean out cement from 6830' to 7157'. (1.5 hrs) Drilled 12 1/4" hole from 7157' to 7187', with full returns. (4 hrs) Circulated and ran directional survey at 7127'. (1 hrs) Drilled 12 1/4" hole from 7187' to 7231', with full returns. (7.5 hrs) Made up 12 1/4" BHA and ran in the hole to 5000' Circulated and built mud volume.Ran Comments: in the hole to 6830', tagged tight hole. Circulated bottoms up. Reamed from 6830' to top of cement plug # 5 at 7070'. Hole took 7 bbls of cement. Clean out cement from 6830' to 7157'.Drilled 12 1/4" hole from 7157' to 7187', with full returns.Circulated and ran directional survey at 7127' Drilled 12 1/4" hole from 7187' to 7231', with full returns. MW: 9.9 Viscosity: 78 Filtrate: 5 **Mud Data:** 7127ft - 14.1 deg Inc, 20.1 deg Az; Surveys: 7,588,594 84,773 Well Costs (\$): Daily Costs (\$): n Workover Days: 87 **Completion Days: Drilling Days:** 6.3 Ave ROP: Current Depth (ft): 7.256 Hole Drilled (ft): 04-Apr-09 Ran in the hole to the shoe with 12 1/4" BHA. Circulated and built mud volume. Ran in **Current Ops:** the hole, tagged top of cement at 7107' (hole took 4 bbls of cement). Circulated bottoms **Operation Summary:** Continue to drill 12 1/4" hole from 7231' to 7256'. Began to lose 200 bph of mud at 7249'. (4 hrs) Pulled out of the hole. Stood back BHA. Made up sawtooth sub on drill pipe. Ran in the hole to the shoe. Tailboard. Rigged up Howco. Ran in the hole to 7255'. (11 hrs) Pumped 100 bblsof mud to cool hole and clear pipe. Fluid level at 125'. Howco mixed and pumped cement plug # 6 as follows, 8 bbls of H2O, 26 bbls (175 lin ft) of 15 # " Plugchem System" cement, displaced with 8 bbls of H2O and 68 bbls of 9.7 # mud . Had mud returns after 18 bbls of displacement. Cement in place at 3:30 pm. (1 hrs) Pulled out of the hole to 6215'. Pumped drill pipe wiper ball thru drill string. (1 hrs) Pulled out of the hole. Made up 12 1/4" BHA. (7 hrs) Continue to drill 12 1/4" hole from 7231' to 7256'. Began to lose 200 bph of mud at Comments: 7249' Pulled out of the hole. Stood back BHA. Made up sawtooth sub on drill pipe. Ran in the hole to the shoe. Tailboard. Rigged up Howco. Ran in the hole to 7255'. Pumped 100 bblsof mud to cool hole and clear pipe. Fluid level at 125'. Howco mixed and pumped cement plug # 6 as follows, 8 bbls of H2O, 26 bbls (175 lin ft) of 15 # ' Plugchem System" cement, displaced with 8 bbls of H2O and 68 bbls of 9.7 # mud . Had mud returns after 18 bbls of displacement. Cement in place at 3:30 pm.Pulled out of the hole to 6215'. Pumped drill pipe wiper ball thru drill string. Pulled out of the hole. Made up 12 1/4" BHA. MW: 9.7 Viscosity: 57 Filtrate: 6.1 **Mud Data:** None Surveys: 7.649,521 Well Costs (\$): Daily Costs (\$): 60,927 O Workover Days: **Completion Days:** 88 **Drilling Days:** 6.1 Ave ROP: Hole Drilled (ft): 7,345 Current Depth (ft): 05-Apr-09 Continued to drill 12 1/4" hole to 7375' at 6:00 am. Losing aprox 20/ 30 bph of mud. **Current Ops: Operation Summary:**

Continued to run in the hole to 4988'. (1 hrs) Circulated and built mud volume at 4988'. (2 hrs)

Ran in the hole, tagged cement at 7107'. (1.5 hrs)

Circulated. (1.5 hrs)

Cleaned out cement from 7107' to 7256'. (2.5 hrs)

Drilled 12 1/4" hole from 7256' to 7313'. (9 hrs)

Ran directional survey at 7253'. (1 hrs)

Drilled 12 1/4" hole from 7313' to 7345'. (5.5 hrs)

Comments: Continued to run in the hole to 4988'.Circulated and built mud volume at 4988'.Ran in

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	Well Summa	ary Report				Calpine				
	Well ID: Aidlin			Well Name: /	4idlin#12					
	Field: Geysers	Daylor Daylor Daylor Daylor Daylor								
		7256'.Drilled 12 1/4" ho	nt at 7107'.Circulated.Cleand ole from 7256' to 7313'.Drille	ed out cem ed 12 1/4"	nent from 7107' to hole from 7313' to 734	15 '.				
	Mud Data:	MW: 9.7 Viscosity: 7	5 Filtrate: 6.8							
	Surveys:	7253ft - 16.8 deg Inc, 2	21 deg Az;							
	Daily Costs (\$):	52,120	Well Costs (\$):		7,701,640					
	Drilling Days:	89	Completion Days:	0	Workover Days:	0				
06-Apr-09	Current Depth (f	i): 7,456	Hole Drilled (ft):	111	Ave ROP:	4.8				
	Current Ops:	Drilling ahead at 7480'	at 6:00 am. Mud loss 12 /15	bph.						
	Operation Sumn	nary:								
			Mud loss aprox 12 / 15 bph	. (12.5 hr	s)					
		Circulated and ran directional survey at 7348'. (1 hrs)								
	Drilled 12 1/4" hole from 7408' to 7456'. Mud loss aprox 12 / 15 bph. (10.5 hrs)									
	Comments:	7348' Drilled 12 1/4" hole from 7408' to 7456'. Mud loss aprox 12 / 15 bph.								
	Mud Data:	MW: 9.7 Viscosity: 7								
	Surveys:	7348ft - 17.1 deg Inc, 2								
	Daily Costs (\$):	68,994	Well Costs (\$):		7,770,634	_				
	Drilling Days:	. 90	Completion Days:	0	Workover Days:	0				
07-Apr-09	Current Depth (f	ft): 7,543	Hole Drilled (ft):	87	Ave ROP:	4.7				
	Current Ops:	Drilled from 7543' to 75	570'.Mud loss approx 12/15	bph.						
	Operation Summary:									
	Drilled 12 1/4" ho	Drilled 12 1/4" hole from 7456' to 7503'.Mud loss approx 12/15 bph. (10 hrs)								
		Circulated and surveyed @ 7453'. (2 hrs)								
		Tripped out of hole to 5000'. (1.5 hrs)								
	Removed hydraulic floorhand. (1 hrs)									
	Tripped in hole to 7503'. (1 hrs) Drilled from 7503' to 7543'.Mud loss approx 12/15 bph. (8.5 hrs)									
		3' to 7543' Mud loss app	prox 12/15 bph. (8.5 hrs)							
		Drilled 12 1/4" hole fro surveyed @ 7453'.Trip	m 7456' to 7503'.Mud loss a oped out of hole to 5000'.Re	moved hyd	draulic floorhand.Tripp	ed in				
	Drilled from 7503	Drilled 12 1/4" hole fro surveyed @ 7453'.Trip	m 7456' to 7503'.Mud loss a oped out of hole to 5000'.Re om 7503' to 7543'.Mud loss	moved hyd	draulic floorhand.Tripp	ed in				
	Drilled from 7503 Comments: Mud Data:	Drilled 12 1/4" hole fro surveyed @ 7453'.Trip hole to 7503'.Drilled fro	m 7456' to 7503'.Mud loss a oped out of hole to 5000'.Re om 7503' to 7543'.Mud loss '2 Filtrate: 6.2	moved hyd	draulic floorhand.Tripp	ed in				
	Drilled from 7503 Comments: Mud Data: Surveys:	Drilled 12 1/4" hole fro surveyed @ 7453'.Trip hole to 7503'.Drilled fro MW: 9.7 Viscosity: 7 7453ft - 17.4 deg Inc.;	m 7456' to 7503'.Mud loss a oped out of hole to 5000'.Re om 7503' to 7543'.Mud loss '2 Filtrate: 6.2	moved hyd	draulic floorhand.Tripp	ed in				
	Drilled from 7503 Comments: Mud Data: Surveys: Daily Costs (\$):	Drilled 12 1/4" hole fro surveyed @ 7453'.Trip hole to 7503'.Drilled fro MW: 9.7 Viscosity: 7 7453ft - 17.4 deg Inc.;	m 7456' to 7503'.Mud loss a oped out of hole to 5000'.Re om 7503' to 7543'.Mud loss '2 Filtrate: 6.2 21.9 deg Az;	moved hyd	draulic floorhand.Tripp 15 bph.	ed in				
00 Apr 00	Drilled from 7503 Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days:	Drilled 12 1/4" hole fro surveyed @ 7453'.Trip hole to 7503'.Drilled fro MW: 9.7 Viscosity: 7 7453ft - 17.4 deg Inc.; 71,447 91	m 7456' to 7503'.Mud loss oped out of hole to 5000'.Re om 7503' to 7543'.Mud loss '2 Filtrate: 6.2 21.9 deg Az; Well Costs (\$): Completion Days:	moved hyd approx 12/	draulic floorhand.Tripp 15 bph. 7,842,081 Workover Days:	ed in				
08-Apr-09	Drilled from 7503 Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days: Current Depth (6)	Drilled 12 1/4" hole fro surveyed @ 7453'.Trip hole to 7503'.Drilled fro MW: 9.7 Viscosity: 7 7453ft - 17.4 deg Inc.; 71,447 91	m 7456' to 7503'.Mud loss a oped out of hole to 5000'.Re om 7503' to 7543'.Mud loss '2 Filtrate: 6.2 21.9 deg Az; Well Costs (\$): Completion Days:	emoved hyd approx 12/ 0	draulic floorhand.Tripp 15 bph. 7,842,081 Workover Days:	ed in				
08-Apr-09	Drilled from 7503 Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days: Current Depth (i	Drilled 12 1/4" hole fro surveyed @ 7453'.Trip hole to 7503'.Drilled from MW: 9.7 Viscosity: 7 7453ft - 17.4 deg Inc.; 71,447 91 ft): 7,642 Drilled from 7642' to 76	m 7456' to 7503'.Mud loss a oped out of hole to 5000'.Re om 7503' to 7543'.Mud loss '2 Filtrate: 6.2 21.9 deg Az; Well Costs (\$): Completion Days:	emoved hyd approx 12/ 0	draulic floorhand.Tripp 15 bph. 7,842,081 Workover Days:	ed in				
08-Apr-09	Drilled from 7503 Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days: Current Depth (Current Ops: Operation Sumr	Drilled 12 1/4" hole fro surveyed @ 7453'.Trip hole to 7503'.Drilled from MW: 9.7 Viscosity: 7453ft - 17.4 deg Inc.; 71,447 91 ft): 7,642 Drilled from 7642' to 76 mary:	m 7456' to 7503'.Mud loss a pped out of hole to 5000'.Re pm 7503' to 7543'.Mud loss '2 Filtrate: 6.2 21.9 deg Az; Well Costs (\$): Completion Days: Hole Drilled (ft): 671'.Losing 10 bph.	emoved hyd approx 12/ 0 99	draulic floorhand.Tripp 15 bph. 7,842,081 Workover Days:	ed in				
08-Apr-09	Drilled from 7503 Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days: Current Depth (i Current Ops: Operation Sumr Drilled 12 1/4" ho	Drilled 12 1/4" hole fro surveyed @ 7453'.Trip hole to 7503'.Drilled fro MW: 9.7 Viscosity: 7 7453ft - 17.4 deg Inc.; 71,447 91 ft): 7,642 Drilled from 7642' to 76 mary: ole from 7543 ft to 759	m 7456' to 7503'.Mud loss a pped out of hole to 5000'.Re pm 7503' to 7543'.Mud loss 2 Filtrate: 6.2 21.9 deg Az; Well Costs (\$): Completion Days: Hole Drilled (ft): 671'.Losing 10 bph. 8 ft.Losing 10 bph. (12 hrs	emoved hyd approx 12/ 0 99	draulic floorhand.Tripp 15 bph. 7,842,081 Workover Days:	ed in				
08-Apr-09	Drilled from 7503 Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days: Current Depth (i Current Ops: Operation Sumr Drilled 12 1/4" ho Circulated and si	Drilled 12 1/4" hole fro surveyed @ 7453'. Trip hole to 7503'. Drilled fro MW: 9.7 Viscosity: 7 7453ft - 17.4 deg Inc.; 71,447 91 ft): 7,642 Drilled from 7642' to 76 mary: ole from 7543 ft to 759 urveyed @ 7548'. (1.5 8 ft to 7642 ft.Losing 10	m 7456' to 7503'.Mud loss a pped out of hole to 5000'.Re pm 7503' to 7543'.Mud loss 2 Filtrate: 6.2 21.9 deg Az; Well Costs (\$): Completion Days: Hole Drilled (ft): 671'.Losing 10 bph. 8 ft.Losing 10 bph. (12 hrs hrs) 0 bph. (10.5 hrs)	emoved hydapprox 12/	draulic floorhand.Tripp 15 bph. 7,842,081 Workover Days: Ave ROP:	0 4.4				
08-Apr-09	Drilled from 7503 Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days: Current Depth (i Current Ops: Operation Sumr Drilled 12 1/4" ho Circulated and si	Drilled 12 1/4" hole fro surveyed @ 7453'.Triphole to 7503'.Drilled from 7453ft - 17.4 deg Inc.; 71,447 91 ft): 7,642 Drilled from 7642' to 76 mary: ole from 7543 ft to 759 urveyed @ 7548'. (1.5) 8 ft to 7642 ft.Losing 10 Drilled 12 1/4" hole from 1453'.	m 7456' to 7503'.Mud loss a pped out of hole to 5000'.Re pm 7503' to 7543'.Mud loss 2 Filtrate: 6.2 21.9 deg Az; Well Costs (\$): Completion Days: Hole Drilled (ft): 671'.Losing 10 bph. 8 ft.Losing 10 bph. (12 hrs hrs)	o 99	draulic floorhand.Tripp 15 bph. 7,842,081 Workover Days: Ave ROP:	0 4.4				
08-Apr-09	Drilled from 7503 Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days: Current Depth (Current Ops: Operation Sumr Drilled 12 1/4" ho	Drilled 12 1/4" hole fro surveyed @ 7453'.Triphole to 7503'.Drilled from 7453ft - 17.4 deg Inc.; 71,447 91 ft): 7,642 Drilled from 7642' to 76 mary: ole from 7543 ft to 759 urveyed @ 7548'. (1.5) 8 ft to 7642 ft.Losing 10 Drilled 12 1/4" hole from 1453'.	m 7456' to 7503'.Mud loss a pped out of hole to 5000'.Re pm 7503' to 7543'.Mud loss 2 Filtrate: 6.2 21.9 deg Az; Well Costs (\$): Completion Days: Hole Drilled (ft): 671'.Losing 10 bph. 8 ft.Losing 10 bph. (12 hrs hrs) 0 bph. (10.5 hrs) om 7543 ft to 7598 ft.Losing 8 ft to 7642 ft.Losing 10 bph	o 99	draulic floorhand.Tripp 15 bph. 7,842,081 Workover Days: Ave ROP:	ed in 0 4.4				
08-Apr-09	Drilled from 7503 Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days: Current Depth (Current Ops: Operation Summer Drilled 12 1/4" ho	Drilled 12 1/4" hole fro surveyed @ 7453'.Triphole to 7503'.Drilled from 7453ft - 17.4 deg Inc., 17453ft - 17.4 deg Inc., 174447 91 17.642 Drilled from 7642' to 76 17.5 deg Inc., 17642 Drilled from 7543 ft to 759 17.5 deg Inc., 17642 ft Losing 16 17.5 deg Inc., 17642'.Drilled from 7548'.Drilled from 75548'.Drilled fro	m 7456' to 7503'.Mud loss a pped out of hole to 5000'.Re pm 7503' to 7543'.Mud loss '2 Filtrate: 6.2 21.9 deg Az; Well Costs (\$): Completion Days: Hole Drilled (ft): 671'.Losing 10 bph. (12 hrs hrs) 0 bph. (10.5 hrs) 0m 7543 ft to 7598 ft.Losing 10 bph 173 Filtrate: 6	o 99	draulic floorhand.Tripp 15 bph. 7,842,081 Workover Days: Ave ROP:	0 4.4				
08-Apr-09	Drilled from 7503 Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days: Current Depth (I Current Ops: Operation Sumr Drilled 12 1/4" hc Circulated and si Drilled from 759 Comments: Mud Data:	Drilled 12 1/4" hole fro surveyed @ 7453'.Triphole to 7503'.Drilled from 7453ft - 17.4 deg Inc., 174,447 91 ft): 7,642 Drilled from 7642' to 76 mary: ole from 7543 ft to 759 urveyed @ 7548'. (1.5) 8 ft to 7642 ft.Losing 16 Drilled 12 1/4" hole from 7548'.Drilled from 7548'.Drilled from 7548ft - 17.7 deg Inc., 17548ft - 17.7 deg Inc.	m 7456' to 7503'.Mud loss a pped out of hole to 5000'.Re pm 7503' to 7543'.Mud loss '2 Filtrate: 6.2 21.9 deg Az; Well Costs (\$): Completion Days: Hole Drilled (ft): 671'.Losing 10 bph. (12 hrs hrs) 0 bph. (10.5 hrs) 0m 7543 ft to 7598 ft.Losing 10 bph ft to 7642 ft.Losing 10 bph 73 Filtrate: 6	o 99	draulic floorhand.Tripp 15 bph. 7,842,081 Workover Days: Ave ROP:	0 4.4				
08-Apr-09	Drilled from 7503 Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days: Current Depth (Current Ops: Operation Summer Drilled 12 1/4" hour Circulated and surveys: Mud Data: Surveys: Daily Costs (\$):	Drilled 12 1/4" hole fro surveyed @ 7453'.Triphole to 7503'.Drilled from 7453ft - 17.4 deg Inc., 174,447 91 ft): 7,642 Drilled from 7642' to 76 mary: ole from 7543 ft to 759 urveyed @ 7548'. (1.5) 8 ft to 7642 ft.Losing 16 Drilled 12 1/4" hole from 7548'.Drilled from 7548'.Drilled from 7548ft - 17.7 deg Inc., 17548ft - 17.7 deg Inc.	m 7456' to 7503'.Mud loss oped out of hole to 5000'.Reform 7503' to 7543'.Mud loss in 7543'.Mud loss in 7543 ft to 7598 ft.Losing 10 bpt. B ft.Losing 10 bph. (12 hrs.) D bph. (10.5 hrs.) D bph. (10.5 hrs.) The reform 7543 ft to 7598 ft.Losing in 7543 ft to 7642 ft.Losing 10 bpt. The reform 7543 ft in 7598 ft.Losing in 7543 ft in 7543 ft.Losing in 7543 ft.L	o 99	draulic floorhand Tripp 15 bph. 7,842,081 Workover Days: Ave ROP:	0 4.4				
08-Apr-09	Drilled from 7503 Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days: Current Depth (i Current Ops: Operation Summer Drilled 12 1/4" ho Circulated and so Drilled from 759 Comments: Mud Data: Surveys:	Drilled 12 1/4" hole fro surveyed @ 7453'.Triphole to 7503'.Drilled from MVV: 9.7 Viscosity: 77453ft - 17.4 deg Inc.; 71,447 91 ft): 7,642 Drilled from 7642' to 76 mary: ole from 7543 ft to 759 urveyed @ 7548'. (1.5 left to 7642 ft.Losing 16 Drilled 12 1/4" hole from 7548'.Drilled from 755 MVV: 9.7 Viscosity: 77548ft - 17.7 deg Inc., 57,920 92	m 7456' to 7503'.Mud loss a pped out of hole to 5000'.Re pm 7503' to 7543'.Mud loss 2 Filtrate: 6.2 21.9 deg Az; Well Costs (\$): Completion Days: Hole Drilled (ft): 671'.Losing 10 bph. 8 ft.Losing 10 bph. (12 hrs hrs) 0 bph. (10.5 hrs) 0 m 7543 ft to 7598 ft.Losing 18 ft to 7642 ft.Losing 10 bph 73 Filtrate: 6 23.5 deg Az; Well Costs (\$):	o 99 10 bph.Ch.	7,842,081 Workover Days: 7,900,001 Workover Days:	0 4.4				

Calpine Well Summary Report Well Name: Aidlin # 12 Well ID: Aidlin #12 Sect: 32 Town: 12 N Rng: 9 W County: Sonoma State: CA Field: Geysers Tripped in hole to 7723'. Circulated bottoms up. Tripped out of hole for 9 5/8" casing. **Current Ops: Operation Summary:** Drill 12 1/4" hole from 7642 ft to 7723 ft.No mud loss. (18 hrs) Circulated and surveyed @7660'. (2.5 hrs) Wiper Trip to 5000 ft. (1.5 hrs) Cut and slipped drill line. (2 hrs) Drill 12 1/4" hole from 7642 ft to 7723 ft.No mud loss.Circulated and surveyed Comments: @7660'.Wiper Trip to 5000 ft.Cut and slipped drill line. MW: 9.7 Viscosity: 85 Filtrate: 5.8 Mud Data: None Surveys: 7,950,005 Daily Costs (\$): Well Costs (\$): 50.004 0 93 **Completion Days:** 0 Workover Days: **Drilling Days:** Ave ROP: Hole Drilled (ft): 7,723 Current Depth (ft): 10-Apr-09 Tripped in hole with casing and hanger. Tagged fill @ 7708'. Washed casing to **Current Ops:** 7723'.Circulated to cool well.Rigged up Haliburton and cemented 9 5/8" casing. **Operation Summary:** Tripped in hole to 7723'. (2 hrs) Circulated bottoms up. (1.5 hrs) Tripped out of hole for casing, strapped out. (7.5 hrs) Made up casing hanger. (2 hrs) Rigged up Team Casing and ran 9 5/8" casing.Made up hanger to casing.Rigged down Team Casing. (9 hrs) Tripped in hole with 9 5/8" casing and hanger. (2 hrs) Tripped in hole to 7723'. Circulated bottoms up. Tripped out of hole for casing, strapped Comments: out.Made up casing hanger.Rigged up Team Casing and ran 9 5/8" casing.Made up hanger to casing Rigged down Team Casing Tripped in hole with 9 5/8" casing and hanger. MW: 9.7 Viscosity: 76 Filtrate: 5.7 Mud Data: None Surveys: 8.011.876 Well Costs (\$): 61,871 Daily Costs (\$): 0 Workover Days: **Completion Days:** n **Drilling Days:** 94 Ave ROP: Hole Drilled (ft): 7,723 11-Apr-09 Current Depth (ft): Tripped in hole tagged cement @4676'. Cleaned out cement from 4676' to **Current Ops:** 4793'. Circulated and tested lap to 250 psi(ok). **Operation Summary:** Ran in hole with 9 5/8" casing and hanger,tagged fill @ 7708'. (2.5 hrs) Washed casing from 7708' to 7723'. (1 hrs) Circulated and cooled well. Set hanger @ 4793' bottom of casing 7720'. (1.5 hrs) Held safety meeting, rigged up Haliburton, and cemented 9 5/8" casing. (4 hrs) Backed off of hanger and tripped out of hole to 3737'. Cleared pipe and rigged down Haliburton. (2 hrs) Tripped out of hole, laid down hanging tools. (2 hrs) Tripped in hole with 8" drill collars. (2 hrs) Broke down, magna checked, and made up kelly. (3 hrs) Laid down 8" drill collars. (2.5 hrs)

Ran in hole with 9 5/8" casing and hanger,tagged fill @ 7708'. Washed casing from 7708'

to 7723'.Circulated and cooled well.Set hanger @ 4793' bottom of casing 7720'.Held safety meeting,rigged up Haliburton,and cemented 9 5/8" casing.Backed off of hanger and tripped out of hole to 3737'.Cleared pipe and rigged down Haliburton.Tripped out of hole,laid down hanging tools.Tripped in hole with 8" drill collars.Broke down,magna

Picked up 12 1/4" bit and 6" drill collars and tripped in hole. (3.5 hrs)

Comments:

Calpine Well Summary Report Well Name: Aidlin # 12 Well ID: Aidlin # 12 Sect: 32 Town: 12 N Rng: 9 W County: Sonoma State: CA Field: Gevsers checked,and made up kelly.Laid down 8" drill collars.Picked up 12 1/4" bit and 6" drill collars and tripped in hole Mud Data: None None Surveys: 8.380.824 Daily Costs (\$): 368.948 Well Costs (\$): 0 Workover Days: n 95 **Completion Days: Drilling Days:** Ave ROP: Hole Drilled (ft): 7,723 12-Apr-09 Current Depth (ft): Changed over hole from mud to water. Tripped out of hole. **Current Ops: Operation Summary:** Tripped in hole with 12 1/4" bit,tagged cement @4676'. (3.5 hrs) Cleaned out cement from 4676' to lap @ 4793'. (1.5 hrs) Circulated clean and tested lap to 250 psi (ok). (1 hrs) Tripped out of hole and laid down 12 1/4" bit. (4 hrs) Made up 8 1/2" bit and stabalizer, tripped in hole to 4793'. (4 hrs) Cleaned out hanger from 4793' to 4805'. Tested lap to 250 (ok). (1.5 hrs) Tripped in hole to 7678'. (1.5 hrs) Cleaned out dart, float cement and shoe from 7678' to 7723'. (3 hrs) Circulated hole clean. (1.5 hrs) Changed over hole from mud to water. (2.5 hrs) Tripped in hole with 12 1/4" bit,tagged cement @4676' Cleaned out cement from 4676' Comments: to lap @ 4793'.Circulated clean and tested lap to 250 psi (ok).Tripped out of hole and laid down 12 1/4" bit Made up 8 1/2" bit and stabalizer,tripped in hole to 4793'.Cleaned out hanger from 4793' to 4805'. Tested lap to 250 (ok). Tripped in hole to 7678'. Cleaned out dart, float cement and shoe from 7678' to 7723' Circulated hole clean Changed over hole from mud to water. Mud Data: None None Surveys: 8,423,518 42,695 Well Costs (\$): Daily Costs (\$): 0 Workover Days: **Completion Days: Drilling Days:** 96 Ave ROP: Hole Drilled (ft): Current Depth (ft): 7.723 13-Apr-09 Rigged up for air operations. Opened master valve. Made up bha, tripped in hole to **Current Ops:** 2000' Staged in @ 2000'. **Operation Summary:** Changed over hole from mud to water. (1 hrs) Tripped out of hole, emptied pits. (5 hrs) Closed master valve, cleaned pits, and stabbed blooie line. (11 hrs) Nippled up blooie line,rigged up for air operations. (7 hrs) Changed over hole from mud to water. Tripped out of hole, emptied pits. Closed master Comments: valve, cleaned pits, and stabbed blooie line. Nippled up blooie line, rigged up for air operations. **Mud Data:** None None Surveys: 8,468,563 Well Costs (\$): 45,045 Daily Costs (\$): 0 **Completion Days:** Workover Days: 97 **Drilling Days:** Ave ROP: Hole Drilled (ft): 14-Apr-09 7.723 Current Depth (ft): 0000-0600 Ran in the hole cleaning drill pipe with air every 2000' to 6550'. Unloaded **Current Ops:** water at 6550'. Continued on in the hole blowing down at 7015'. **Operation Summary:** Rigged up blooie line. (2 hrs)



Well ID: Aidlin #12

Calpine

Well Name: Aidlin # 12

Field: Gevsers

Sect: 32 Town: 12 N Rng: 9 W County: Sonoma State: CA

Made up new bit and bottom hole assembly. (2 hrs)

Installed new rotating rubber. (1 hrs)

Staged in the hole blowing water out of the hole with air to 6031', pressured up. (10 hrs)

Pulled out of the hole to 5176' and attempted to unplug the drill string. (2 hrs)

Pulled out of the hole and cleaned out 3' of cement off top of the float. (4.383 hrs)

Made bottom hole assembly back up and ran in the hole beating on drill pipe and clearing with air to 3400'. (2.617 hrs)

Comments:

Rigged up the blooie line. Made up new 8 1/2" bit and bottom hole assembly. Staged in the hole unloading water out of the wellbore with air to 6031'. Pressured up at 6031'. Pulled out of the hole and unpluged cement from top of the float. Ran back the hole beating on the drill pipe and clearing with air to 3400'.

Mud Data:

None

Survevs:

None

Daily Costs (\$): **Drilling Days:**

83,235

Well Costs (\$):

8.551.798

Completion Days: 98

0 Workover Days: O

15-Apr-09

Current Depth (ft):

8.044

Hole Drilled (ft):

Ave ROP: 321

24.7

Current Ops:

0000-0600 Drilled 8 1/2" hole with air to 8222' taking a directional wireline survey at

8008

Operation Summary:

Continued staging in the hole blowing well down to bottom at 7723'. (9 hrs)

Attempted to center the blowout preventers. (1 hrs)

Drilled and worked piece of float shoe down from 7723' to 7742'. (2 hrs)

Drilled 8 1/2" hole with air from 7742' to 7840'. (4 hrs)

Blew hole clean and took wireline directional survey at 7791'. (1 hrs)

Continued to drill 8 1/2" hole to 8044'. (7 hrs)

Comments:

Continued staging in the hole blowing hole down with air to bottom at 7723'. Drill 8 1/2"

hole with air from 7723' to 80'44' taking a directional wireline survey at at 7791'.

Mud Data:

Surveys:

7660ft - 18.6 deg Inc, 25.1 deg Az; 7791ft - 18 deg Inc, 23.9 deg Az; 8008ft - 18.2 deg

0000-0600 Drillied 8 1/2" hole from 8684' to 8746'. Blew and cleaned the hole. Pulled

Inc, 30.6 deg Az;

Daily Costs (\$):

71.416

Well Costs (\$):

8,623,214

Drilling Days:

99

Completion Days:

Workover Days:

0

16-Apr-09

Current Ops:

8,684

Hole Drilled (ft):

Ave ROP: 640

32.8

Current Depth (ft):

out of the hole with bit #14.

Operation Summary:

Drilled 8 1/2" hole with air from 8044' to 8064'. (0.5 hrs)

Blew hole clean and took directional wireline survey at 8008'. (1.5 hrs)

Drilled 8 1/2" hole from 8064' to 8285'. (6.5 hrs)

Blew hole clean and took directional wireline survey at 8189'. (1 hrs)

Drilled 8 1/2" hole from 8285' to 8438'. (5.5 hrs)

Blew hole clean and took directional wireline survey at 8382'. (1 hrs)

Drilled 8 1/2" hole from 8438' to 8654'. (6 hrs)

blew hole clean and took directional wireline survey at 8598'. (1 hrs)

Drilled 8 1/2" hole from 8654' to 8684'. (1 hrs)

Comments:

Drilled 8 1/2" hole with air from 8044' to 8684' taking directional wireline surveys at

8008',8289',8382 and 8598'.

Mud Data: Surveys:

8229ft - 17.7 deg Inc, 27 deg Az; 8438ft - 18.2 deg Inc, 27.6 deg Az;

Daily Costs (\$):

61,892

Well Costs (\$):

8,685,106

	Mall Cumm	ani Banar	<u></u>	oppopolitima si de del de constant i que escretar por commune, que e encontrar de la Main de desta deposación		(Calpine			
	Well Summ	-	\A.	Well Name: Aidlin # 12						
	Well ID: Aidlin	ACAL D Olay Company								
3,00000	Field: Geysers						0			
	Drilling Days:		100	Completion Days:		ver Days:				
17-Apr-09	Current Depth (f		8,746	Hole Drilled (ft):	62 Ave F		41.3			
	Current Ops:	0000-0600 Rea Blew and clean	amed from ed hole f	m 8613' to 8746'. Drilled for directional wireline su	8 1/2' hole with air fro irvey.	m 8746' to 88	i75'.			
	Operation Sumn	nary:								
	Drilled 8 1/2" hole	e with air from 86	684' to 8	646'. (1.5 hrs)						
	Blew hole clean f									
	Pulled out of the	nole with bit #14. (8 hrs)								
	Cleared floor and	d measured drill	pipe to b	e picked up. (1 hrs)						
	Made up bit #15 top of the savor s	Made up bit #15 and new bottom hole assembly. (Installed corrosion rings in top of the BHA and in the top of the savor sub) (3 hrs)								
	• •	the drilling line. (1.5 hrs)								
İ		ced the rig. (0.5 hrs)								
		picking up 67 joints of 20# E drill pipe. (3.5 hrs)								
	Cleared new pipe	Cleared new pipe picked up with air. (0.5 hrs)								
		Ran in the hole laying down 24 joints of G-105 drill pipe out of the derrick to drill with. Tagged bridge at 8613'. (4 hrs)								
Drilled 8 1/2" hole with air from 8684' to 8746'. Blew hole clean. Pulled out of with bit #14. Gauged and changed out all stabs, (all stabs were out from 1/16 Made up new 8 1/2" bit #15 and ran rest of the bottom hole assembly. Slippe the drilling line. Serviced the rig. Continued in the hole picking up 67 joints of pipe on bottom. Ran in the hole with drill pipe out of the derrick laying down drill with. Tagged bridge at 8613'.							8"). cut drill			
	Mud Data:	None								
	Surveys:	8598ft - 17.8 d	eg Inc, 2	3.6 deg Az;						
	Daily Costs (\$): 64,582 Well Costs (\$): 8,749,688									
	Drilling Days:		101	Completion Days:	0 Worko	ver Days:	0			
18-Apr-09	Current Depth (ft):	9,319	Hole Drilled (ft):	573 Ave	ROP:	28.7			
	Current Ops:	0000-0600 To	ok direct seeing e	ional wireline survey at 9 xcessive torque. Blew h	9263'. Continued drilling ole clean and started p	g 8 1/2" hole to oulling out of t	to he			
	Operation Sum									
	Reamed from 86		8746'.	(1.5 hrs)						
	Drilled 8 1/2" ho									
				wireline survey at 8819	'. (1 hrs)					
	Drilled 8 1/2" ho	le from 8875' to	9097'.	(8 hrs)						
	Blew the hole cl	ean and took dir	wireline survey at 9041	'. (1 hrs)						
	Drilled 8 1/2" ho									
	Blew the hole clean for survey. (0.5 hrs) Comments: Reamed from 8613' to bottom at 8746'. Drilled 8 1/2" hole with air from 8746' to									
	m 8/40 to 90	718								
	Mud Data:	None				000011 40	F			
	Surveys:	8819ft - 17.2 d Inc, 28.5 deg /		23.9 deg Az; 9041ft - 16			5 deg			
	Daily Costs (\$):	:	54,036	Well Costs (\$)	: 8,813,	,724				
	Drilling Days:		102	Completion Days:		ver Days:	0			
19-Apr-09	Current Depth	(ft):	9,350	Hole Drilled (ft):	31 Ave	ROP:	20.7			
10.141.00	Current Ops:	nonn-nenn Fir	nished ni	ulling out of the hole with of wire. Ran in the hole	magnet and junk sub, with new bottom hole	, no bolts assembly to	7000'.			
	O		-							

Operation Summary:



Well ID: Aidlin # 12

Field: Gevsers

Well Name: Aidlin # 12 Sect: 32 Town: 12 N Rng: 9 W County: Sonoma State: CA

Took directional wireline survey at 9263'. (0.5 hrs)

Laid out 8 joint of drill pipe out of the derrick to drill with. (0.5 hrs)

Drilled 8 1/2" hole with air from 9319' to 9350', started seeing excessive torque. (1.5 hrs)

Pulled out of the hole with bit #15. Note: lost all the bolts off the rotating rubber assembly. (7.5 hrs)

Made up bit #16 and new stabs and stood back in the derrick. (1.5 hrs)

Picked and made up 20# E drill pipe in the mousehole and stood back in the derrick. (2 hrs)

Made up magnet and junk sub and ran in the hole to 9320'. (6 hrs)

Washed to bottom at 9350'. (1 hrs)

Worked magnet and junk sub. (1 hrs)

Pulled out of the hole with magnet and junk sub. to 473'. (2.5 hrs)

Took directional wireline survey at 9263'. Drilled 8 1/2" hole with air form 9319' to 9350', started seeing high torque. Blew hole clean. Pulled out of the hole with bit #15. Pulled rotating rubber, Note: all 8 bolts were missing off the rotating rubber. Made up new bit and changed out stabs on the bottom hole assembly and stood back in the derrick. Picked up 20# E drill pipe in the mouse hole and stood back in the derrick. Made up 8" magnet and junk sub and ran in the hole to 9320'. Washed to bottom at 9350'. Worked bottom with magnet and junk sub. Pulled out of the hole to 473'.

Mud Data:

Surveys:

None

Daily Costs (\$):

61.756

Well Costs (\$):

8 875 480

Drilling Days:

Current Ops:

103

Completion Days:

Workover Days:

0

0

Calpine

20-Apr-09

Current Depth (ft):

9,350

Hole Drilled (ft):

Ave ROP:

0000-0000 Finished running in the hole with magnet and junk sub to 9350'. Worked

iunk with magnet. Pulled out of the hole.

Operation Summary:

Pulled out of the hole with magnet and junk sub, no recovery. Laid down magnet and junk sub. (2 hrs)

Made up bit #16 and new bottom hole assembly and ran in the hole to 9302'. (6 hrs)

Ream from 9302' to bottom and top of junk at 9350'. (1 hrs)

Worked junk with bit. Stuck pipe. (0.5 hrs)

Worked stuck pipe . Pipe came free. (2.5 hrs)

Pulled out of the hole broke down bottom hole assembly, lost all cones off bit #16 and the float and

totco ring. (8 hrs)

Made up magnet and junk sub and ran in the hole to 2236'. (4 hrs)

Comments:

Pulled out of the hole with magnet and junk sub. no recovery. Made up Bit #16 and new bottom hole assembly and ran in the hole to 9302'. Reamed to bottom and top of the junk at 9350'. Worked junk on bottom with bit. Pipe stuck worked stuck pipe Worked pipe free. Pulled out of the hole, all cones gone off of the bit and lost the float and the

totco ring. Made up magnet and junk sub and ran in the hole to 2236'.

Mud Data:

None

Surveys:

None

Daily Costs (\$):

86,289

Well Costs (\$):

8.961.769

Drilling Days:

104

Completion Days:

Workover Days:

0

21-Apr-09

Current Ops:

9,350

Hole Drilled (ft):

Ave ROP:

00:00 to 06:00 Ran in the hole with an 8 1/2" mill and started milling on the cones at 9350'.

Operation Summary:

Current Depth (ft):

Ran in the hole with an 8" magnet to 9350'. (4 hrs)

Worked the magnet on the junk in the hole at 9350'. (1 hrs)

Pulled out of the hole with the magnet. (5 hrs)

Cleaned off the magnet and the junk sub. Recovered Float parts and the totco ring. (1 hrs)

Ran in the hole for a second run with the 8" magnet. (4 hrs)

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Well ID: Aidlin # 12

Field: Gevsers

Calpine

Well Name: Aidlin # 12

Sect: 32 Town: 12 N Rng: 9 W County: Sonoma State: CA

Circulated and worked the magnet over the fish at 9350'. (1 hrs)

Pulled out of the hole with the magnet. (5 hrs)

Cleaned off the magnet and the junk sub. Recovered one small piece of the float. (1 hrs)

Made up an 8 1/2" mill and ran in the hole. (2 hrs)

Comments:

Ran in the hole with an 8" magnet to 9350'. Worked the magnet on the junk in the hole at 9350'. Pulled out of the hole with the magnet. Cleaned off the magnet and the junk sub. Recovered Float parts and the totco ring. Ran in the hole for a second run with the 8" magnet. Circulated and worked the magnet over the fish at 9350'. Pulled out of the hole with the magnet. Cleaned off the magnet and the junk sub. Recovered one small piece of the float. Made up an 8 1/2" mill and ran in the hole.

Mud Data:

None

Surveys:

60.085

Well Costs (\$):

9,021,854

Daily Costs (\$): **Drilling Days:**

105

Completion Days:

Workover Days:

0

Current Depth (ft): 22-Apr-09

Hole Drilled (ft): 9.350

Ave ROP:

Current Ops:

00:00 to 06:00 Pulled out of the hole and recovered a very small amount of metal.

Operation Summary:

Ran in the hole with the 8 1/2" mill. (3 hrs)

Circulated the hole clean. Lifted a small amount of water. (0.5 hrs)

Milled on fish from 9347' to 9350'. (6 hrs)

Pulled out of the hole with the 8 1/2" mill. The mill was completely worn out. (6.5 hrs)

Slip and cut the drilling line and serviced the rig. (1.5 hrs)

Ran in the hole with an 8" magnet to 9309'. (5.5 hrs)

Circulated hole clean at 9350'. (0.5 hrs)

Worked the magnet over the cones at 9350'. (0.5 hrs)

Comments:

Ran in the hole with the 8 1/2" mill. Circulated the hole clean. Lifted a small amount of water. Milled on fish from 9347" to 9350'. Pulled out of the hole with the 8 1/2" mill. The mill was completely worn out. Slip and cut the drilling line and serviced the rig. Ran in the hole with an 8" magnet to 9309'. Circulated hole clean at 9350'. Worked the magnet

over the cones at 9350'.

Mud Data:

None None

Surveys:

Daily Costs (\$):

49,192

Well Costs (\$):

9,071,046

Drilling Days:

106

Completion Days:

Workover Days:

0

23-Apr-09

Current Depth (ft):

9,350

Hole Drilled (ft):

Ave ROP:

Current Ops:

00:00 to 06:00 Ran in with an 8 1/2" mill to 7438' and slippand cut the drilling line.

Operation Summary:

Pulled out of the hole with the 8" magnet. Recovered a very small amount of metal. Laid down the magnet. (5.5 hrs)

Serviced the rig. (0.5 hrs)

Ran in the hole with the 8 1/2" concave mill # 2 to 9350'. (7 hrs)

Milled on the cones from 9350' to 9351'. (5 hrs)

Pulled out of the hole with mill # 2. Recovered 2 cups of metal from the cones in the junk sub. (5.5 hrs)

Made up the 8 1/2" concave mill # 3 and started running in the hole. (0.5 hrs)

Comments:

Pulled out of the hole with the 8" magnet. Recovered a very small amount of metal. Laid down the magnet. Serviced the rig. Ran in the hole with the 8 1/2" concave mill # 2 to 9350'. Milled on the cones from 9350' to 9351'. Pulled out of the hole with mill # 2. Recovered 2 cups of metal from the cones in the junk sub. Made up the 8 1/2" concave mill # 3 and started running in the hole.

None

Mud Data:

4.20.00.00.000	BALall Company	anı Dan	ec. 126:				Calpine
	Well Summ		Ort			164-11 Alaman	.*
	Well ID: Aidlin	# 12			S 5)4	Well Name:	
	Field: Geysers			Sect: 32 Town: 12 N	Rng: 9 v	County, Sonoma	State. CA
	Surveys:	None					
	Daily Costs (\$):		56,759	Well Costs (\$):		9,127,805	
	Drilling Days:		107	Completion Days:	0	Workover Days:	0
24-Apr-09	Current Depth (f	t):	9,350	Hole Drilled (ft):	(Ave ROP:	
	Current Ops:	00:00 to 06:	00 Milled or	n bit cones at 9351'. Starte	d pulling o	ut of the hole.	
	Operation Sumn	narv:					
		•	" concave r	nill # 3 to 7438'. (3 hrs)			
	Slip and cut the d						
	Ran in the hole w	ith mill #3 to	9309'. (0.	5 hrs)			
	Circulated well dr	y. (0.5 hrs)					
	Milled on bit cone					·	
				vered a small amount of r	netal in the	gunk sub. (5 nrs)	
				nill # 4 to 9309'. (6 hrs)			
	Milled on bit cone Comments:	Pan in the t	(1 1115) Note with the	8 1/2" concave mill # 3 to	7438'. Slin	and cut the drilling a	nd
	Comments:	serviced the	ria. Ran in	the hole with mill # 3 to 9:	309'. Circul	ated well dry. Milled o	n bit
		cones at 93	51'. Pulled	out of the hole with the mil the hole with the 8 1/2" co	I. Recovere	ed a small amount of 1	netal hit
		cones at 93		the note with the 6 1/2 CO	iicave iiiii i	7 4 to 3003 . Willied On	N/C
	Mud Data:	None	-,.				
	Surveys:	None					
	Daily Costs (\$):		64,734	Well Costs (\$):		9,192,539	
	Drilling Days:		108	Completion Days:	0	Workover Days:	0
25-Apr-09	Current Depth (1	ft\-	9,350	Hole Drilled (ft):		Ave ROP:	
20-Api -00	Current Ops:		,	off the magnet and junk s	sub and ran	in the hole with the	
	Current Ops.	magnet.		•			
	Operation Summ	nary:					
	Milled on bit cone						L
				# 4. Recovered some co	ne inserts	in the junk sub. (4.5	nrs)
	Made up the juni						
	Tightened a hydr Ran in the hole v						
	Circulated and n	umned soan	sweeps th	en worked the magnet over	er the bit co	ones at 9351'. (1 hrs	\$)
				Recovered to bit cones. (4		`	•
	Comments:	Milled on bi	t cones at 9	351'. Pulled out of the hole	e with the 8	1/2" mill # 4. Recove	red
		some cone	inserts in the	ne junk sub. Made up the j OP. Ran in the hole with a	unk sub an In 8" magn	d a 8" magnet. Tighte et to 9351' Circulated	ned a and
		pumped so	an on the b ap sweeps	then worked the magnet of	ver the bit o	cones at 9351'. Pulled	out of
		the hole wit	h the magn	et. Recovered to bit cones.			
	Mud Data:	None					
	Mud Data: Surveys:	None None					
		None	45,990	Well Costs (\$):		9,238,529	
	Surveys:	None	45,990 109	Well Costs (\$): Completion Days:	0	9,238,529 Workover Days:	0
26-Apr-09	Surveys: Daily Costs (\$):	None	•		0		0
26-Apr-09	Surveys: Daily Costs (\$): Drilling Days:	None ft): 00:00 to 06	9,350 6:00 Pulled	Completion Days: Hole Drilled (ft): out of the hole with the ma	gnet. There	Workover Days: Ave ROP: e was no recovery of a	any
26-Apr-09	Surveys: Daily Costs (\$): Drilling Days: Current Depth (ft): 00:00 to 06 metal on th	9,350 6:00 Pulled	Completion Days: Hole Drilled (ft):	gnet. There	Workover Days: Ave ROP: e was no recovery of a	any
26-Apr-09	Surveys: Daily Costs (\$): Drilling Days: Current Depth (Current Ops:	None ft): 00:00 to 06 metal on the the hole.	9,350 6:00 Pulled	Completion Days: Hole Drilled (ft): out of the hole with the ma	gnet. There	Workover Days: Ave ROP: e was no recovery of a	any
26-Apr-09	Surveys: Daily Costs (\$): Drilling Days: Current Depth (Current Ops:	None ft): 00:00 to 06 metal on the hole. mary:	9,350 6:00 Pulled of the magnet of	Completion Days: Hole Drilled (ft): out of the hole with the ma	gnet. There	Workover Days: Ave ROP: was no recovery of a holy and started runni	any



Well ID: Aidlin #12

Well Name: Aidlin # 12

Calpine

Field: Gevsers

Sect. 32 Town: 12 N Rng: 9 W County: Sonoma State: CA

Ran in the hole with the 8" magnet to 9351'. (5.5 hrs)

Circulated and worked the magnet on the bit cone at 9351'. (1.5 hrs)

Pulled out of the hole and recovered the last bit cone. (4 hrs)

Ran in the hole with the 8" magnet to 7628'. (4 hrs)

Slipped and cut drilling line and serviced the rig. (1.5 hrs)

Ran in the hole with the 8" magnet to 9351'. (1 hrs)

Circulated at 9351' and pumped two soap sweeps and worked magnet on bottom. (1.5 hrs)

Pulled out of the hole with the 8" magnet. (4 hrs)

Comments:

Cleaned out junk sub and the magnet recovering 2 bit cones and a few bearings. Ran in the hole with the 8" magnet to 9351'. Circulated and worked the magnet on the bit cone at 9351'. Pulled out of the hole and recovered the last bit cone. Ran in the hole with the 8" magnet to 7628'. Slipped and cut drilling line and serviced the rig. Ran in the hole with the 8" magnet to 9351'. Circulated at 9351' and pumped two soap sweeps and

worked magnet on bottom. Pulled out of the hole with the 8" magnet.

Mud Data:

None None

Surveys:

Daily Costs (\$):

45,363

Well Costs (\$):

9.283.892

Drilling Days:

110

Completion Days:

Workover Days: Ave ROP:

0 15.2

27-Apr-09

Current Depth (ft): **Current Ops:**

Hole Drilled (ft): 9,464

00:00 to 06:00 Work stuck pipe.

Operation Summary:

Laid down the 8" magnet and junk sub with no metal recovered. (1 hrs)

Made up 8 1/2" drilling assembly and ran in the hole to 9264'. (8 hrs)

Reamed from 9264' to 9350'. (3 hrs)

Drill from 9350 ft to 9463 ft. Steam entries at 9437,9443,9457 totaling 100 psi. and 59 deg F increase.

(7.5 hrs)

Pulled up to make a conection and H2s alams went off due to rotating rubber going out. Changed rotating rubber and pipe was stuck. (1 hrs)

Work stuck pipe from 9391' to 9364. (3.5 hrs)

Comments:

Laid down the 8" magnet and junk sub with no metal recovered. Made up 8 1/2" drilling assembly and ran in the hole to 9264'. Reamed from 9264' to 9350'. Drill from 9350 ft to 9463 ft. Steam entries at 9437,9443,9457 totaling 100 psi. and 59 deg F increase. Pulled up to make a conection and H2s alams went off due to rotating rubber going out. Changed rotating rubber and pipe was stuck. Work stuck pipe from 9391' to 9364. Steam (#/hr) H2s (ppm) H2s (#/hr) NH3 (ppm) NH3 (#/hr)

Restricted air on = 33,000

144

519

Mud Data:

None

Surveys:

None

Unrestricted

86,352

Well Costs (\$):

9,370,244

Daily Costs (\$): **Drilling Days:**

111

50.500

Completion Days:

Workover Days:

0

28-Apr-09

Current Depth (ft):

9,464

Hole Drilled (ft):

Ave ROP:

437

Removed double gate and venturi spool. Installed new double gate and spider spool. **Current Ops:**

Operation Summary:

Worked stuck pipe from 9391' to 9364'. (17 hrs)

Pipe twisted off while rotating @ 9391'. Fish in hole bha + 24 stands dp =2783'. (0.5 hrs)

Tripped out of hole, twisted off drill pipe @ 6586'. (3 hrs)

Removed bolts from venturi spool and double gate. (3.5 hrs)

Comments:

Worked stuck pipe from 9391' to 9364'. Pipe twisted off while rotating @ 9391'. Fish in hole bha + 24 stands=2783'. Tripped out of hole, twisted off drill pipe @ 6586'. Removed

bolts from venturi spool and double gate.

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Well ID: Aidlin #12

Field: Geysers

Calpine

0

Well Name: Aidlin #12

Sect: 32 Town: 12 N Rng: 9 W County: Sonoma State: CA

Restricted air on 33,000 #/hr H2S(ppm) 437 H2S(#/hr) 14.4 NH3(ppm) 519 NH3(#/hr) 17.1

Restricted air off 33,000 #/hr H2S(ppm) 1748 H2S(#/hr) 57.7 NH3(ppm) 519 NH3(#/hr)

17.1 Unrestricted 50,500 #/hr H2S(ppm) 1748 H2S(#/hr) 127.6 NH3(ppm) 519 NH3(#/hr)

26.2

Wud Data:

None None

Surveys: Daily Costs (\$):

72,488

Well Costs (\$):

9.442,732

Drilling Days:

112

Completion Days:

-,, . - -

0

Workover Days:

29-Apr-09

Current Depth (ft):

9,464

Hole Drilled (ft):

Ave ROP:

Current Ops:

Tripped out of hole with overshot. Skirt on overshot collapsed causing gain in weight. Laid

down overshot. Waited on fishing tools.

Operation Summary:

Changed out venturi spool with spider spool Changed out double gate.Repaired leaks at muffler flange and blooie line valve. (14 hrs)

Picked up and made up overshot and, bumper sub, and jars. (2 hrs)

Made up rbop, held safety meeting, and opened well. (2 hrs)

Tripped in hole to 6575'. (3.5 hrs)

Worked overshot from 6575' to 6580'. Gained 5000 lbs. (1 hrs)

Tripped out of hole with overshot. (1.5 hrs)

Comments:

Changed out venturi spool with spider spool. Changed out double gate. Repaired leaks at muffler flange and blooie line valve. Picked up and made up overshot and, bumper sub, and jars. Made up rbop, held safety meeting, and opened well. Tripped in hole to 6575'. Worked overshot from 6575' to 6580'. Gained 5000 lbs. Tripped out of hole with overshot.

Restricted air on 24,500 #/hr H2S(ppm) 250 H2S(#/hr) 6.1 NH3(ppm) 519 NH3(#/hr)

Restricted air off 24,500 #/hr H2S(ppm) 1845 H2S(#/hr) 45 NH3(ppm) 519 NH3(#/hr)

Unrestricted 33,600 #/hr H2S(ppm) 1845 H2S(#/hr) 62 NH3(ppm) 519 NH3(#/hr) 17.4

Mud Data:

None

Surveys:

None

Daily Costs (\$):

67,729

Well Costs (\$):

9,510,461

0

Drilling Days

113

Completion Days:

Workover Days:

Drilling Days:

Hole Drilled (ft):

Ave ROP:

30-Apr-09

Current Depth (ft):

9,464

nois ninica (i

Current Ops: Tripped out of hole with 6 3/4" swedge.Installed 6 5/8" swedge and tripped in hole.

Operation Summary:

Tripped out of hole with fishing tools. Discovered overshot skirt damage due to collapsed casing causing 5000 lbs. weight gain when pulling off bottom. Laid down fishing tools. Shut in well. (4 hrs)

Serviced rig. (0.5 hrs)

Waited on swedges. (10.5 hrs)

Made up 6 3/4" swedge,installed rbop. (2 hrs)

Held safety meeting and opened well. (1 hrs)

Tripped in hole with swedge,tagged @ 6610'. (4 hrs)

Swedged down on casing from 6610' to 6613'. (1 hrs)

Tripped out of hole. (1 hrs)

Comments:

Tripped out of hole with fishing tools. Discovered overshot skirt damage due to collapsed casing causing 5000 lbs. weight gain when pulling off bottom. Laid down fishing tools. Shut in well. Serviced rig. Waited on swedges. Made up 6 3/4" swedge, installed



Well ID: Aidlin #12

Field: Geysers

Calpine

Well Name: Aidlin # 12

Sect: 32 Town: 12 N Rng: 9 W County: Sonoma State: CA

rbop. Held safety meeting and opened well. Tripped in hole with swedge, tagged @ 6610' Swedged down on casing from 6610' to 6613' Tripped out of hole.

Restricted air on 24,500 #/hr H2S(ppm) 250 H2S(#/hr) 6.1 NH3(ppm) 519 NH3(#/hr)

Restricted air off 24,500 #/hr H2S(ppm) 1745 H2S(#/hr) 42.8 NH3(ppm) 519 NH3(#/hr)

12.7

Unrestricted 33,600 #/hr H2S(ppm) 1745 H2S(#/hr) 58.6 NH3(ppm) 519 NH3(#/hr)

17.4

Mud Data:

None

Surveys:

None

82,156

Well Costs (\$):

9,592,617

Daily Costs (\$): **Drilling Days:**

114

Completion Days:

Workover Days: 0

0

Current Depth (ft): 01-May-09

9.464

Hole Drilled (ft):

Ave ROP:

Current Ops:

Tripped out with 7 1/2" swedge.Tripped in with 8 1/2" swedge.Swedged casing to 8 1/2" from 6605' to 6621'.

Operation Summary:

Tripped out with 6 3/4" swedge. (3 hrs)

Tripped in with 6 5/8" swedge. (5 hrs)

Swedged casing to 6 5/8' from 6605' to 6621'. Tagged top of fish @ 6707'. (1 hrs)

Tripped out with 6 5/8" swedge. (2.5 hrs)

Tripped in hole with 6 3/4" swedge. (3 hrs)

Swedged casing to 6 3/4" from 6605' to 6621'. (0.5 hrs)

Tripped out with 6 3/4" swedge. (3 hrs)

Tripped in hole with 7 1/2" swedge. (4.5 hrs)

Swedged casing to 7 1/2" from 6605' to 6621'. (0.5 hrs)

Tripped out with 7 1/2" swedge. (1 hrs)

Comments:

Tripped out with 6 3/4" swedge. Tripped in with 6 5/8" swedge. Swedged casing to 6 5/8' from 6605 to 6621' Tagged top of fish @ 6707' Tripped out with 6 5/8" swedge Tripped in hole with 6 3/4" swedge. Swedged casing to 6 3/4" from 6605' to 6621'. Tripped in hole with 6 3/4" swedge. Tripped in hole with 7 1/2" swedge. Swedged casing to 7 1/2" from 6605' to 6621'. Tripped out with 7 1/2" swedge.

Well making 400 bbls.water every 24 hrs.

Restricted air on 15,800 #/hr H2S(ppm) 250 H2S(#/hr) 6.1 NH3(ppm) 519 NH3(#/hr)

12.7

Restricted air off 15,800 #/hr H2S(ppm) 1829 H2S(#/hr) 28.9 NH3(ppm) 519 NH3(#/hr)

Unrestricted 20,200 #/hr H2S(ppm) 1829 H2S(#/hr) 28.9 NH3(ppm) 519 NH3(#/hr)

17.4

Mud Data:

None

Surveys:

None

Well Costs (\$):

9,656,929

Daily Costs (\$): **Drilling Days:**

Completion Days: 115

Workover Days:

Current Depth (ft):

9.464

64,312

Hole Drilled (ft):

Ave ROP:

02-May-09

Current Ops:

Nippled up bop, alligned and nippled up blooie line. Repaired crack in blooie line.

Operation Summary:

Tripped out with 7 1/2" swedge. (2.5 hrs)

Tripped in with 8 1/2" swedge. (3.5 hrs)

Swedged casing to 8 1/2" from 6605' to 6621'. (1 hrs)

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Well ID: Aidlin # 12

Field: Gevsers

Calpine

Well Name: Aidlin # 12

Sect: 32 Town: 12 N Rng: 9 W County: Sonoma State: CA

Tripped out with 8 1/2" swedge. (4 hrs)

Cut and slipped drill line. (1.5 hrs)

Made up overshot and rbop. (1.5 hrs)

Attempted to open slab gate and master valve. Discovered slab gate not fuctioning and master valve handle retainer nut stripped out attempted to repair nut and slab gate. (5 hrs)

Nippled down blooie line and slab gate. (5 hrs)

Comments:

Tripped out with 7 1/2" swedge.Tripped in with 8 1/2" swedge.Swedged casing to 8 1/2" from 6605' to 6621'.Tripped out with 8 1/2" swedge.Cut and slipped drill line.Made up overshot and rbop.Attempted to open slab gate and master valve.Discovered slab gate not fuctioning and master valve handle retainer nut stripped out.attempted to repair nut and slab gate.Nippled down blooie line and slab gate.While nippling down blooie line blooie line cracked on 20" section by blooie line stand about 2/3 around pipe.

Well made 200 bbls.water in 24 hrs.

Restricted air on 15,800 #/hr H2S(ppm) 250 H2S(#/hr) 6.1 NH3(ppm) 519 NH3(#/hr)

8.2

Restricted air off 15,800 #/hr H2S(ppm) 1829 H2S(#/hr) 28.9 NH3(ppm) 519 NH3(#/hr)

8.2

Unrestricted 20,200 #/hr H2S(ppm) 1829 H2S(#/hr) 36.9 NH3(ppm) 519 NH3(#/hr)

10.5

Mud Data:

None

Surveys:

None

Daily Costs (\$):

65,392

Well Costs (\$):

9,722,321

Drilling Days:

Current Ops:

116

Completion Days:

Workover Days:

0

0

03-May-09

Current Depth (ft):

9.464

Hole Drilled (ft):

Ave ROP:

Latched onto fish with 7 3/8" overshot,gained 25,000 lbs.hookload(approx 14 stands dp). Tripped out with piece of fish.

Operation Summary:

Nippled up bop and blooie line. Set in mousehole. (5 hrs)

Tightened blooie line. Alligned and welded crack in blooie line. (5.5 hrs)

Tripped in with 8 1/8" overshot. (3.5 hrs)

Attempted to work overshot through bad spot @ 6605',no good. (0.5 hrs)

Tripped out of hole with 8 1/8" overshot. (3.5 hrs)

Blowed down well, waited on 7 3/8" overshot. (2 hrs)

Tripped in with 7 3/8" overshot. (4 hrs)

Comments:

Nippled up bop and blooie line.Set in mousehole.Tightened blooie line.Alligned and welded crack in blooie line.Tripped in with 8 1/8" overshot.Attempted to work overshot through bad spot @ 6605",no good.Tripped out of hole with 8 1/8" overshot.Blowed down well,waited on 7 3/8" overshot.Tripped in with 7 3/8" overshot.

Well made 100 bbls.water in 24 hrs.

Restricted air on 15,800 #/hr H2S(ppm) 250 H2S(#/hr) 6.1 NH3(ppm) 519 NH3(#/hr)

82

Restricted air off 15,800 #/hr H2S(ppm) 1829 H2S(#/hr) 28.9 NH3(ppm) 519 NH3(#/hr)

82

Unrestricted 20,200 #/hr H2S(ppm) 1829 H2S(#/hr) 36.9 NH3(ppm) 519 NH3(#/hr)

10.5

Mud Data:

None None

Surveys:

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RIMBase

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	Well Summ	ary Report					C	alpin
	Well ID: Aidlin	# 12				Well N	lame: Aic	llin # 1
	Field: Gevsers		5	Sect: 32 Town: 12 N	Rng: 9 W	County: So	onoma S	tate: C
	Daily Costs (\$):	58,0		Well Costs (\$):		9,780,363		
	Drilling Days:	·		Completion Days:	0	Workover Da	avs:	0
						Ave ROP:		
04-May-09	Current Depth (•		Hole Drilled (ft):	n mill lind			
	Current Ops:	and tripped in hole		II,Cut straps and laid dov	// mm.wau	e up o 1/2 oo	AICGVC IIIII	
	Operation Sum	• •						
	-	vershot over fish @	6707'	(0.5 hrs)				
		_		n overshot. (5.5 hrs)				
				nole=22 1/2 jts dp + bha	=1231'. (4	1.5 hrs)		
	Repaired master			• •				
			1/2" stri	ing mill.Tripped in to 65	75'. (8 hrs)		
	Milled and dress	ed casing f/6575' to	6580',	and 6605' to 6621'. (2 h	ırs)			
	Tripped in to 772							
	Tripped out with	8 1/2" string mill. ("						
	Comments:	overshot.Laid dow =1231'.Repaired mill.Tripped in to	n fish(4 master 6575'.N	ver fish @ 6707'.Tripped 9 1/2 jts.drill pipe).Fish in valve.Made up and welde lilled and dressed casing .Tripped out with 8 1/2" s	n hole=22 1 ed straps of f/6575' to (/2 jts dp + bha nto 8 1/2" strir	a ng	VII
	Mud Data:	None						
	Surveys:	None						
	Daily Costs (\$):	80,1	0 4	Well Costs (\$):		9,860,467		
	Drilling Days:	•				, ,		
			18 6	Completion Days:	0	Workover D	avs:	0
	· · · · · · · · · · · · · · · · · · ·			Completion Days:	0	Workover D		0
05-May <i>-</i> 09	Current Depth (ft): 9,4	64	Hole Drilled (ft):		Ave ROP:		
05-May-09	· · · · · · · · · · · · · · · · · · ·	ft): 9,4 Worked 8 1/2" mill had wear only on	64 I down the outs		e hole with that mill wa	Ave ROP: 8 1/2" milling	assembly.	Mill
05-May-09	Current Depth (Current Ops: Operation Sum	ft): 9,4 Worked 8 1/2" mill had wear only on the fish. Slipped a mary:	64 I down the outs nd cut t	Hole Drilled (ft): to 8240'. Pulled out of the side edge, all indications the drilling line. Serviced	e hole with that mill wa the rig	Ave ROP: 8 1/2" milling as going down	assembly.	Mill e of
05-May-09	Current Depth (Current Ops: Operation Sum Pulled out of the mill assembly.	Worked 8 1/2" mil had wear only on the fish. Slipped a mary: hole with string mi (3.5 hrs)	64 I down the outs nd cut t	Hole Drilled (ft): to 8240'. Pulled out of the side edge, all indications the drilling line. Serviced mbly. Shut the well in.	e hole with that mill wa the rig Ground stra	Ave ROP: 8 1/2" milling as going down aps off and lai	assembly. a along side	Mill e of
05-May-09	Current Depth (Current Ops: Operation Sum Pulled out of the mill assembly.	Worked 8 1/2" mil had wear only on the fish. Slipped a mary: hole with string mi (3.5 hrs)	64 I down the outs nd cut t	Hole Drilled (ft): to 8240'. Pulled out of the side edge, all indications the drilling line. Serviced	e hole with that mill wa the rig Ground stra	Ave ROP: 8 1/2" milling as going down aps off and lai	assembly. a along side	Mill e of
05-May-09	Operation Sumi Pulled out of the mill assembly. (Made up 8 1/2" Opened well and	Worked 8 1/2" mil had wear only on the fish. Slipped a mary: hole with string mi (3.5 hrs) concaved mill asset te tit stabilize. (0.5)	64 I down the outs nd cut t Il asser mbly. C 5 hrs)	Hole Drilled (ft): to 8240'. Pulled out of the side edge, all indications the drilling line. Serviced on the serviced of the s	e hole with that mill wa the rig Ground stra	Ave ROP: 8 1/2" milling as going down aps off and lai or new one. (assembly. a along side	Mill e of
05-May-09	Operation Sum: Pulled out of the mill assembly. Made up 8 1/2" Opened well and Ran in the hole	Worked 8 1/2" mil had wear only on the fish. Slipped a mary: hole with string mi (3.5 hrs) concaved mill asset the tit stabilize. (0.5 with 8 1/2" milling a	64 I down the outs nd cut t Il asser mbly. C 5 hrs) ssembl	Hole Drilled (ft): to 8240'. Pulled out of the side edge, all indications the drilling line. Serviced imply. Shut the well in. Changed out worn rotating tagging top of the fish	e hole with that mill wa the rig Ground stra ng rubber fo at 8230'.	Ave ROP: 8 1/2" milling as going down aps off and lai or new one. (assembly. a along side	Mill e of
05-May -09	Operation Sum: Pulled out of the mill assembly. (Made up 8 1/2" Opened well and Ran in the hole Milled on fish fro	Worked 8 1/2" mil had wear only on the fish. Slipped a mary: hole with string mi (3.5 hrs) concaved mill assed the tit stabilize. (0.5 with 8 1/2" milling a m 8230' to 8235',	64 I down the outs nd cut t Il asser mbly. Control the	Hole Drilled (ft): to 8240'. Pulled out of the side edge, all indications the drilling line. Serviced imply. Shut the well in. Changed out worn rotating tagging top of the fish from 8235' to 8240'. (2)	e hole with that mill wa the rig Ground stra ng rubber fo at 8230'. hrs)	Ave ROP: 8 1/2" milling as going down aps off and lai or new one. ((3 hrs)	assembly. a along side id down str	Mill e of ring
05-May-09	Current Depth (Current Ops: Operation Sum: Pulled out of the mill assembly. (Made up 8 1/2" Opened well and Ran in the hole willed out of the edge, there was	Worked 8 1/2" mil had wear only on the fish. Slipped a mary: the hole with string mi (3.5 hrs) concaved mill assed let it stabilize. (0.5 with 8 1/2" milling a om 8230' to 8235', the hole with 8 1/2" milling a no wear in the midd	64 I down the outs th	Hole Drilled (ft): to 8240'. Pulled out of the side edge, all indications the drilling line. Serviced imbly. Shut the well in. Changed out worn rotating tagging top of the fish from 8235' to 8240'. (2) (2) (2) (2) (2) (3)	e hole with that mill wa the rig Ground stra ng rubber fo at 8230'. hrs)	Ave ROP: 8 1/2" milling as going down aps off and lai or new one. ((3 hrs)	assembly. a along side id down str	Mill e of ring
05-May-09	Current Depth (Current Ops: Operation Sum Pulled out of the mill assembly. (Made up 8 1/2" Opened well and Ran in the hole Milled on fish fro Pulled out of the edge, there was Serviced the rig	Worked 8 1/2" mil had wear only on the fish. Slipped a mary: the hole with string mi (3.5 hrs) concaved mill assed let it stabilize. (0.5 with 8 1/2" milling a om 8230' to 8235', the hole with 8 1/2" m no wear in the midd and cleared off right	64 I down the outs th	Hole Drilled (ft): to 8240'. Pulled out of the side edge, all indications the drilling line. Serviced may be seen a support of the fish from 8235' to 8240'. (2 seembly. Closed well in hrs)	e hole with that mill wa the rig Ground stra ng rubber fo at 8230'. hrs) . Note: mil	Ave ROP: 8 1/2" milling as going down aps off and lai or new one. ((3 hrs)	assembly. a along side id down str	Mill e of ring
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05-May-09	Current Depth (Current Ops: Operation Sum Pulled out of the mill assembly. (Made up 8 1/2" Opened well and Ran in the hole Milled on fish fro Pulled out of the edge, there was Serviced the rig Made up 8 1/2" Ran in the hole	Worked 8 1/2" mil had wear only on the fish. Slipped a mary: hole with string mi (3.5 hrs) concaved mill assed let it stabilize. (0.5 with 8 1/2" milling a me 8230' to 8235', a hole with 8 1/2" m no wear in the midd and cleared off right milling assembly ar with 8 1/2" milling as	64 I down the outs th	Hole Drilled (ft): to 8240'. Pulled out of the side edge, all indications the drilling line. Serviced may be seen a support of the fish from 8235' to 8240'. (2 seembly. Closed well in hrs)	e hole with that mill wathe rig Ground strang rubber for at 8230'. hrs) Note: mil	Ave ROP: 8 1/2" milling as going down aps off and lai or new one. ((3 hrs)	assembly. a along side id down str	Mill e of ring
05-May-09	Current Depth (Current Ops: Operation Sumi Pulled out of the mill assembly. (Made up 8 1/2" Opened well and Ran in the hole Milled out of the edge, there was Serviced the rig Made up 8 1/2" Ran in the hole Mill on the fish a	Worked 8 1/2" mil had wear only on the fish. Slipped a mary: hole with string mi (3.5 hrs) concaved mill assed let it stabilize. (0.5 with 8 1/2" milling a mark 230' to 8235', hole with 8 1/2" m no wear in the midd and cleared off right milling assembly ar with 8 1/2" milling a with 8 1/2" milling a set 8230' (1.5 hrs)	64 I down the outs th	Hole Drilled (ft): to 8240'. Pulled out of the side edge, all indications the drilling line. Serviced male in . Changed out worn rotating tagging top of the fish from 8235' to 8240'. (2 seembly. Closed well in hrs) I hrs)	e hole with that mill wathe rig Ground strang rubber for at 8230'. hrs) Note: mil	Ave ROP: 8 1/2" milling as going down aps off and lai or new one. ((3 hrs)	assembly. a along side id down str	Mill e of ring
05-May-09	Current Depth (Current Ops: Operation Sum Pulled out of the mill assembly. (Made up 8 1/2" Opened well and Ran in the hole Milled on fish fro Pulled out of the edge, there was Serviced the rig Made up 8 1/2" Ran in the hole	Worked 8 1/2" mil had wear only on the fish. Slipped a mary: hole with string mi (3.5 hrs) concaved mill assed let it stabilize. (0.5 with 8 1/2" milling a me 8230' to 8235', hole with 8 1/2" m no wear in the midd and cleared off right milling assembly ar with 8 1/2" milling as at 8230' (1.5 hrs) hole. (0.5 hrs)	64 I down the outs of cut the	Hole Drilled (ft): to 8240'. Pulled out of the side edge, all indications the drilling line. Serviced imply. Shut the well in. (Changed out worn rotating tagging top of the fish from 8235' to 8240'. (2 seembly. Closed well in hrs) I hrs) Illed new rotating rubber y tagging up at 8230'. (Consequence of the service of the fish from 8235' to 8240'. (2 seembly. Closed well in hrs)	e hole with that mill wa the rig Ground stra ng rubber fo at 8230'. hrs) . Note: mil . (1 hrs) 4.5 hrs)	Ave ROP: 8 1/2" milling as going down aps off and lai or new one. ((3 hrs)	assembly. a along side id down str (2.5 hrs)	Mill e of ring
05-May-09	Current Depth (Current Ops: Operation Sumi Pulled out of the mill assembly. (Made up 8 1/2" Opened well and Ran in the hole Milled out of the edge, there was Serviced the rig Made up 8 1/2" Ran in the hole Mill on the fish a	Worked 8 1/2" mil had wear only on the fish. Slipped a mary: thole with string mi (3.5 hrs) concaved mill assed tel it stabilize. (0.5 with 8 1/2" milling a m 8230' to 8235', to hole with 8 1/2" m no wear in the midd and cleared off right milling assembly are with 8 1/2" milling a stabilized (0.5 hrs) Pulled out of the foff milling assembly are wortating rubb	64 I down the outs and cut the outs and cut the lasser mbly. Control seemble will slid illing as alle. (4 Hoor. (1 and instance seemble with oly and er. Ope	Hole Drilled (ft): to 8240'. Pulled out of the side edge, all indications the drilling line. Serviced imply. Shut the well in. Changed out worn rotating tagging top of the fish from 8235' to 8240'. (2 seembly. Closed well in hrs) I hrs) Illed new rotating rubber y tagging up at 8230'. (1 n. 8 1/2" string mill assembled in the down. Made up 8 ned and let well stabilize	e hole with that mill wathe rig Ground strang rubber for at 8230'. hrs) Note: mill (1 hrs) 4.5 hrs) ably. Shut to 1/2" concaver. Ran in the	Ave ROP: 8 1/2" milling as going down aps off and lait or new one. ((3 hrs) I was worn or he well in. Gree mill assemble hole with 8 1	assembly. along side id down str (2.5 hrs) the outside round strapply. Installer	Mill of ring de
05-May-09	Current Depth (Current Ops: Operation Sum: Pulled out of the mill assembly. (Made up 8 1/2" Opened well and Ran in the hole of Milled out of the edge, there was Serviced the rig Made up 8 1/2" Ran in the hole of Mill on the fish a Pulled out of the Pulled out of the mill on the fish a Pulled out of the course of the mill on the fish a Pulled out of the course o	Worked 8 1/2" mil had wear only on the fish. Slipped a mary: hole with string mi (3.5 hrs) concaved mill assed let it stabilize. (0.5 with 8 1/2" milling a som 8230' to 8235', hole with 8 1/2" m no wear in the midd and cleared off right milling assembly arwith 8 1/2" milling a set 8230' (1.5 hrs) hole. (0.5 hrs) Pulled out of the hoff milling assembly arwith 8 1/2" milling as at 8230' (1.5 hrs) hole. (0.5 hrs) Pulled out of the hoff milling assembly arwith 8 1/2" milling as a sembly arwith 8 1/2" milling as a semble of the fish at 8 and was only wor and installed rotal	64 I down the outs and cut the outs and cut the outs and cut the outs are also assembly and assembly and the outs and assembly and the outs are outs and are outs are	Hole Drilled (ft): to 8240'. Pulled out of the side edge, all indications the drilling line. Serviced imbly. Shut the well in. Changed out worn rotating tagging top of the fish from 8235' to 8240'. (2 seembly. Closed well in hrs) I hrs) Illed new rotating rubber y tagging up at 8230'. (1 to 8 1/2" string mill assembled it down. Made up 8 1/2" string mill assembled it down.	e hole with that mill wather rig Ground strang rubber for at 8230'. hrs) . Note: mil (1 hrs) 4.5 hrs) . (2" concav Ran in the concav Ran in the cell stabilize.	Ave ROP: 8 1/2" milling as going down as going down aps off and laid or new one. ((3 hrs) I was worn or he will assemble hole with 8 1 will from 8235 well in. Assemble Ran in the hol	assembly. a along side id down str (2.5 hrs) The outside fround strap bly. Installee 1/2" mill to 5' to 8240'. ssed mill, r 1/2" mill up	Mill e of ring de
05-May-09	Current Depth (Current Ops: Operation Sum: Pulled out of the mill assembly. (Made up 8 1/2" Opened well and Ran in the hole of Milled out of the edge, there was Serviced the rig Made up 8 1/2" Ran in the hole of Mill on the fish a Pulled out of the Pulled out of the mill on the fish a Pulled out of the course of the mill on the fish a Pulled out of the course o	Worked 8 1/2" mil had wear only on the fish. Slipped a mary: hole with string mi (3.5 hrs) concaved mill assed let it stabilize. (0.5 with 8 1/2" milling a som 8230' to 8235', hole with 8 1/2" m no wear in the midd and cleared off right milling assembly arwith 8 1/2" milling a set 8230' (1.5 hrs) hole. (0.5 hrs) Pulled out of the hoff milling assembly arwith 8 1/2" milling as at 8230' (1.5 hrs) hole. (0.5 hrs) Pulled out of the hoff milling assembly arwith 8 1/2" milling as a sembly arwith 8 1/2" milling as a semble of the fish at 8 and was only wor and installed rotal	64 I down the outs and cut the outs and cut the outs and cut the outs are the outs a	Hole Drilled (ft): to 8240'. Pulled out of the side edge, all indications the drilling line. Serviced the behavior of the side edge, all indications the drilling line. Serviced the behavior of the the be	e hole with that mill watherig Ground strang rubber for at 8230'. hrs) Note: mill (1 hrs) 4.5 hrs) ably. Shut to 1/2" concav. Ran in the control on the cell stabilize. In the fill lenth of fill.	Ave ROP: 8 1/2" milling as going down aps off and laid or new one. ((3 hrs) I was worn or the well in. Gre mill assemble hole with 8 1 mill from 8235 well in. Assemble rore. Made 8 Ran in the holesh 1,231".	assembly. a along side id down str (2.5 hrs) The outside fround strap bly. Installee 1/2" mill to 5' to 8240'. ssed mill, r 1/2" mill up	Mill of ring de

11,386 11009000	100 00 00	pros.	6			~	alpin
	Well Summ	arv Kebol	7.			<u> </u>	CHENTER
	Well ID: Aidlin					Well Name: Ai	
	Field: Geysers	FF t Zam		Sect: 32 Town: 12 N F	8 na: 9 V		
	1 1010. 00,0010	519 NH3#/r	br 11 2				
		Unrestricted		00 #/hr H2S ppm 186	2 H2S #	hr 45.8	
	Mud Data:	None					
	Surveys:	None					
	Daily Costs (\$):	7	76,421	Well Costs (\$):		9,936,888	
	Drilling Days:		119	Completion Days:	0	Workover Days:	0
06-May-09	Current Depth (1	81.	9,464	Hole Drilled (ft):		Ave ROP:	
vo-may-və	Current Ops:	•	•	ntinue to clean pits and gath	or water		
	•		-0000 C0	intilitue to clean pits and gath	ei watei.		
	Operation Sumn	•					
			•	assembly. (3 hrs)			
	Shut the well in.			- , ,			
	Slipped and cut to Serviced rig. Cle	•	•	· ·			
	~	• • •	. ,	in the hole to 8230'. (8 hrs)			
				attempting to get over the to		fish. Milling assembly	
	continued to slide				•	•	
	Pulled out of the	hole with skirted	d mill as	sembly. (6 hrs)			
	Drained and clea			vith 8 1/2" milling assembly.			
		skirted mill. Or	pen the v	ed and cut the drilling line. Ovell and ran in the hole to 82	30'. Worl	red skirted mill from 8230)' to
		8240' trying fin side of the fish started cleanin	n. Pulled	ork skirt over the fish. skirted out of the hole with shirted ad pits.	l mill con nill asse	tinued to slide down alon mbly. Shut well in and	g
		side of the fish started cleanin Note: Fish left	n. Pulleding the muintering the muintering in the house	out of the hole with shirted	mill asse	mbly. Shut well in and hole assembly consisting	g of
	Mud Data:	side of the fish started cleanin Note: Fish left 8 1/2" bit, 4 x s	n. Pulleding the muintering the muintering in the house	out of the hole with shirted of pits. Die= 22 1/2 Joints of drill pipe	mill asse	mbly. Shut well in and hole assembly consisting	g of
	Mud Data: Surveys:	side of the fish started cleanin Note: Fish left 8 1/2" bit, 4 x s 1231'	n. Pulleding the muintering the muintering in the house	out of the hole with shirted of pits. Die= 22 1/2 Joints of drill pipe	mill asse	mbly. Shut well in and hole assembly consisting	g of
		side of the fish started cleanin Note: Fish left 8 1/2" bit, 4 x s 1231' None None	n. Pulleding the muintering the muintering in the house	out of the hole with shirted of pits. Die= 22 1/2 Joints of drill pipe	mill asse	mbly. Shut well in and hole assembly consisting	g of
	Surveys: Daily Costs (\$):	side of the fish started cleanin Note: Fish left 8 1/2" bit, 4 x s 1231' None None	n. Pulled ng the mu in the ho stabs, 1	l out of the hole with shirted and pits. ole= 22 1/2 Joints of drill pipe on a graph of	mill asse	nbly. Shut well in and hole assembly consisting "drill collars, total lenth o	g of
07.Wav.49	Surveys: Daily Costs (\$): Drilling Days:	side of the fish started cleanin Note: Fish left 8 1/2" bit, 4 x s 1231' None None	n. Pulleding the multing the m	out of the hole with shirted and pits. ole= 22 1/2 Joints of drill pipe x jar, 1 x monel drill collar, Well Costs (\$): Completion Days:	e Bottom I5 x 6 1/2	mbly. Shut well in and hole assembly consisting "drill collars, total lenth o	g of If
07-May-09	Surveys: Daily Costs (\$):	side of the fish started cleanin Note: Fish left 8 1/2" bit, 4 x s 1231' None None 20 ft): May 8, 09 00	n. Pulled by the mu in the hostabs, 13	l out of the hole with shirted and pits. ole= 22 1/2 Joints of drill pipe of a pinch of the pipe of the pinch of	e Bottom 15 x 6 1/2	mbly. Shut well in and hole assembly consisting "drill collars, total lenth of 10,141,200 Workover Days: Ave ROP: ge and stab to gauge the	g of if
07-May-09	Surveys: Daily Costs (\$): Drilling Days: Current Depth (side of the fish started cleanin Note: Fish left 8 1/2" bit, 4 x s 1231' None None 20 ft): May 8, 09 00 hole for the inf	n. Pulled by the mu in the hostabs, 13	l out of the hole with shirted and pits. ple= 22 1/2 Joints of drill pipe of	e Bottom 15 x 6 1/2	mbly. Shut well in and hole assembly consisting "drill collars, total lenth of 10,141,200 Workover Days: Ave ROP: ge and stab to gauge the	g of if
07-May-09	Surveys: Daily Costs (\$): Drilling Days: Current Depth (i	side of the fish started cleanin Note: Fish left 8 1/2" bit, 4 x s 1231' None None 20 ft): May 8, 09 00 hole for the informary:	n. Pulled by the mu in the hostabs, 13	l out of the hole with shirted and pits. ple= 22 1/2 Joints of drill pipe of	e Bottom 15 x 6 1/2	mbly. Shut well in and hole assembly consisting "drill collars, total lenth of 10,141,200 Workover Days: Ave ROP: ge and stab to gauge the	g of if
07-May-09	Surveys: Daily Costs (\$): Drilling Days: Current Depth (to Current Ops: Operation Summar Cleaned mud pits Held safety tailboom	side of the fish started cleanin Note: Fish left 8 1/2" bit, 4 x s 1231' None None 20 fft): May 8, 09 00 hole for the informary: s. (7 hrs) board. (0.5 hrs)	n. Pulled by the mu in the hostabs, 1: 04,315 120 9,464 000-0600 flatable p	l out of the hole with shirted and pits. ple= 22 1/2 Joints of drill pipe of pire in a pipe in	e Bottom 15 x 6 1/2	mbly. Shut well in and hole assembly consisting "drill collars, total lenth of 10,141,200 Workover Days: Ave ROP: ge and stab to gauge the	g of if
07-May-09	Surveys: Daily Costs (\$): Drilling Days: Current Depth (to Current Ops: Operation Summon Cleaned mud pits Held safety tailbook Gathered water as	side of the fish started cleanin Note: Fish left 8 1/2" bit, 4 x s 1231' None None 20 ft): May 8, 09 00 hole for the informary: s. (7 hrs) band, (0.5 hrs) and prepared to	n. Pulled by the mu in the hostabs, 1: 04,315 120 9,464 000-0600 flatable po kill the	l out of the hole with shirted and pits. ple= 22 1/2 Joints of drill pipe of	e Bottom 15 x 6 1/2 0	hole assembly consisting drill collars, total lenth of the drill collars. Total lenth of the drill collars. Total lenth of the drill pipe)	g of if
07-May-09	Surveys: Daily Costs (\$): Drilling Days: Current Depth (to Current Ops: Operation Summer Cleaned mud pitted the Safety tailbut Gathered water at Made up 8 1/2":	side of the fish started cleanin Note: Fish left 8 1/2" bit, 4 x s 1231' None None 20 fft): May 8, 09 00 hole for the inf mary: s. (7 hrs) band prepared to swage on the bits	n. Pulled by the mu in the hostabs, 1: 04,315 120 9,464 000-0600 Tatable pookill the pottom of	out of the hole with shirted and pits. ple= 22 1/2 Joints of drill pipe of the pipe of th	e Bottom 15 x 6 1/2 0 1/2" swa d measu	hole assembly consisting drill collars, total lenth of the drill collars. Total lenth of the drill collars. Total lenth of the drill pipe)	g of if
07-May-09	Surveys: Daily Costs (\$): Drilling Days: Current Depth (to Current Ops: Operation Summer Cleaned mud pitted the Safety tailbut Gathered water at Made up 8 1/2":	side of the fish started cleanin Note: Fish left 8 1/2" bit, 4 x s 1231' None None 20 fft): May 8, 09 00 hole for the inf mary: s. (7 hrs) band (0.5 hrs) and prepared to swage on the bit killed the well well well well well well well we	n. Pulled by the mu in the hostabs, 1: 120 9,464 000-0600 flatable pookill the pottorn of with grace.	lout of the hole with shirted and pits. ple= 22 1/2 Joints of drill pipe in p	e Bottom 15 x 6 1/2 0 1/2" swa d measu Installed	hole assembly consisting drill collars, total lenth of the total lenth	g of if
07-May-09	Surveys: Daily Costs (\$): Drilling Days: Current Depth (to Current Ops: Operation Summer Cleaned mud pitted the Safety tailbut Gathered water at Made up 8 1/2":	side of the fish started cleanin Note: Fish left 8 1/2" bit, 4 x s 1231' None None None 20 fft): May 8, 09 00 hole for the inf mary: s. (7 hrs) band (0.5 hrs) and prepared to swage on the book killed the well with g	n. Pulled by the mu in the hostabs, 1: 20 9,464 000-0600 flatable point of with gracing pits. Gat graduated	out of the hole with shirted and pits. ple= 22 1/2 Joints of drill pipe of the pipe of th	e Bottom 15 x 6 1/2 0 1/2" swa d measu Installed ars) kill the ved the m	hole assembly consisting drill collars, total lenth of 10,141,200 Workover Days: Ave ROP: ge and stab to gauge the red the drill pipe) rotating rubber. (1 hrs) well. Cooled and slow killers aster valve and ran in the	g of if 0
07-May-09	Surveys: Daily Costs (\$): Drilling Days: Current Depth (Current Ops: Operation Summon Cleaned mud pits Held safety tailbot Gathered water a Made up 8 1/2"; Cooled and slow	side of the fish started cleanin Note: Fish left 8 1/2" bit, 4 x s 1231' None None 20 ft): May 8, 09 00 hole for the inf mary: s. (7 hrs) band (0.5 hrs) and prepared to swage on the book idled the well will be hole keeping the left.	n. Pulled by the multiple of t	lout of the hole with shirted and pits. Die= 22 1/2 Joints of drill pipe in p	Bottom 15 x 6 1/2 0 1/2" swa d measu Installedors) kill the ved the mg and rate Bottom	hole assembly consisting drill collars, total lenth of 10,141,200 Workover Days: Ave ROP: ge and stab to gauge the red the drill pipe) rotating rubber. (1 hrs) well. Cooled and slow killed aster valve and ran in the obiting the drill pipe. hole assembly consisting	g of of O
07-May-09	Surveys: Daily Costs (\$): Drilling Days: Current Depth (Current Ops: Operation Summon Cleaned mud pits Held safety tailbot Gathered water a Made up 8 1/2"; Cooled and slow	side of the fish started cleanin Note: Fish left 8 1/2" bit, 4 x s 1231' None None None 20 ft): May 8, 09 00 hole for the inf mary: s. (7 hrs) band prepared to swage on the bit killed the well with g hole keeping to the start of the well with g hole keeping to the start of the well with g hole keeping to the start of the well with g hole keeping to the start of the well with g hole keeping to the start of the well with g hole keeping to the start of the well with g hole keeping to the start of the well with g hole keeping to the start of	n. Pulled by the multiple of t	well. (11.5 hrs) well. (11.5 hrs) a 8 1/2" bottom hole stab. duated pump schedule. (4 I duated pump rate schedule. Open lead with 250 gpm measurin ole= 22 1/2 Joints of drill pip	Bottom 15 x 6 1/2 0 1/2" swa d measu Installedors) kill the ved the mg and rate Bottom	hole assembly consisting drill collars, total lenth of 10,141,200 Workover Days: Ave ROP: ge and stab to gauge the red the drill pipe) rotating rubber. (1 hrs) well. Cooled and slow killed aster valve and ran in the obiting the drill pipe. hole assembly consisting	g of of O

	Well ID: Aidlin i		ort			<u> </u>	alpino
						Well Name: Aid	ilin#1
200000000000000000000000000000000000000	Field: Geysers			Sect: 32 Town: 12 N F	Rng: 9 V	V County: Sonoma S	tate: C.
	Daily Costs (\$):	· · · · · · · · · · · · · · · · · · ·	45,688	Well Costs (\$):		10,186,890	
	Drilling Days:		121	Completion Days:	0	Workover Days:	0
08-May-09	Current Depth (fi	f)·	9,464	Hole Drilled (ft):		Ave ROP:	
vo-iviay-vo	Current Ops:	May. 9, 09		00 hrs: Pulled out of the hole	with pac	ker setting tool.	
	Operation Summ	•			•	•	
			vage and s	tab measuring and rabbiting	the drill	pipe to 7700' (gauge rur	n).
	Pulled out of the	hole and laid	down gau	ging assembly. (6 hrs)			
				ging assembly. (6 hrs)			
	Unpacked and ra	n in the hole	with inflata	able packer to 7669'. (8 hrs))	bala but would not cor	200
	Attempted to set up the hole. Ran to get off of it. (3)	packer down	acker wou and parti	uld not set. Packer would go ally out the shoe at 7725'. F	ack stop	pped and and we were at	ole
	Started out of the	hole with pa	cker settin	g tool. (1 hrs)			
	Comments:	7700' (gauge and made up packer would Ran packer able to get of elliment on the	e run). Pull p inflatable d not set. I down and off of it. Sta he packer	1/2" swage and stab measur led out of the hole and laid depacker. Ran in the hole to Packer would go down the hopartially out the shoe at 772 arted out of the hole with sett while running through the bat dead by pumping 230 gpm	own gau 7669'. At ole but w 5'. Packe ing tool. d spots i	ging assembly. Unpacked tempted to set the packer ould not come up the hole r stopped and and we we (Probably damaged rubbe n the casing)	, e. re
	Mud Data:	None	0 .	• • • •			
	Surveys:	None					
	Daily Costs (\$):		105,611	Well Costs (\$):		10,292,500	
	Drilling Days:		122	Completion Days:	0	Workover Days:	0
09-May-09	Current Depth (1	it):	9,464	Hole Drilled (ft):		Ave ROP:	
	Current Ops:	May 10, 09 Had tailboar water and in	rd with Hali nflated pack	00 hrs: Continued in the hole burton and hands. Rigged u ker with 1180# of hydrastic p obls of water ahead. Pump 1 ed with 90 barrels of water a	ıp Hallibu ressure. 5 barrels	rton. Pumped 31 bbls of Unscrewed from the of cement and released of	
	Operation Summ						
			atherford	packer setting tool. (3 hrs)			
	Serviced the rig.			and addresses (O haro)			
	Made up and stra Ran in the hole to			nd stinger . (2 hrs)			
	Marked had end	te in casing f	rom 6500'	to 6650'. (Worst spot at 66	21') (4.5	hrs)	
	Pulled out of the				, ,	,	
	Serviced the rig.	(0.5 hrs)					
	Unload and make	e up packer a	assembly a	and start in the hole. (2.5 hi	rs)		291
	Comments:	assembly as worst spot a Made up 6	nd ran in th at 6621'. Pi 1/4" Baker	the hole with Weatherford p ne hole. Worked bad spots i ulled out of the hole with stin inflatable packer and started gpm down the wellbore at all	n the cas g mill as: i in the h	sembly and laid it down.	
		None					
	Mud Data:						
	Mud Data: Surveys:	None					
		None	44,588	Well Costs (\$):		10,337,090	



Well ID: Aidlin #12

Well Name: Aidlin #12

Field: Gevsers

Sect: 32 Town: 12 N Rng: 9 W County: Sonoma State: CA

Current Ops:

May 11, 09 0000-0600 Finished nippling up blowout preventers. Slipped and cut the

Operation Summary:

Ran in the hole with Baker inflatable packer to 7695'. (5 hrs)

Inflated packer with top of the packer at 7675'. Pumped 200 lin. ft. cement plug on top of the packer. (2.5 hrs)

Pulled out of the hole with packer setting tool and dart catcher. (4.5 hrs)

Nippled down blowout preventers and installed WKM master valve. Niippled blowout preventers back up. (12 hrs)

Comments:

Ran in the hole with 6 1/4" Baker inflatable packer to 7695'. Had tailboard with Haliburton and hands. Rigged up Halliburton. Pumped 31 bbls of water and inflated packer with 1180# of hydrastic pressure. Unscrewed from the packer. Pumped 115 bbls of water ahead. Pump 15 barrels of cement (204 lin.ft.) and released dart from the head, displaced with 90 barrels of water and seating dart in dart catcher with 250 psi. (Top of the packer is at 7675'.) Pulled out of the hole with packer setting tool and dart catcher. Nippled down blooie line and blowout preventers and installed WKM master valve. Nippled blowout preventers back up blanking blooie line and hooking flow line back up.

Mud Data:

None

Surveys:

None

Daily Costs (\$):

130.887

Well Costs (\$):

10.467,980

Drilling Days:

Completion Days: 124

Workover Days:

0

Calpine

11-May-09 Current Depth (ft): 9.464

Hole Drilled (ft):

Ave ROP:

Current Ops:

May 12, 09 0000-0600 Cleaned out cement to 7515'. Circulated and mixed mud. Pulled out of the hole.

Operation Summary:

Finished nippling up the blowout preventers. (4 hrs)

Function tested the blowout preventers. (0.5 hrs)

Slipped and cut the drilling line. (1.5 hrs)

Ran the hole with open ended drill pipe tagging the top of the cement at 7428'. (4 hrs)

Washed soft cement out down to 7436'. (1 hrs)

Circulated hole clean. (1 hrs)

Pulled out to 6827' and rigged up wireline truck with collar locator. (1 hrs)

Ran in the hole with wireline through drill pipe tagging top of the cement at 7445' (wireline

measurements) (1 hrs)

Pulled out of the hole with open ended drill pipe. (4 hrs)

Made up and ran in the hole with 8 1/2" drilling assembly tagging top of the cement at 7436'. (5 hrs)

Started cleaning out cement from 7436'. (1 hrs)

Comments:

Finished nippling up the blowout preventers after installing WKM master valve. Function tested blowout preventers. Slipped and cut the drilling line. Ran in the hole with open ended drill pipe tagging top of the cement plug at 7428'. Washed out soft cement with open ended drill pipe to 7436'. Pulled up to 6827'. Ran wireline collar locator through the drill pipe down to 7445'. Pulled out of the hole with the wireline. Pulled out of the hole with the open ended drill pipe. Made up 8 1/2" bottom hole assembly and tagged top of the cement at 7436'. Started cleaning out cement.

Mud Data:

MW: 8.4 Viscosity: 41 Filtrate: 18

Surveys:

None

Daily Costs (\$):

110,597

Well Costs (\$):

10.578.570

0

Drilling Days:

125

Completion Days:

Workover Days:

0

12-May-09 Current Depth (ft): 9,464

Hole Drilled (ft):

Ave ROP:

Current Ops:

00:00 to 06:00 Ran in the hole to 7515' and circulated clean. Pulled out of the hole with the casing mills.

Operation Summary:

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RIMBase

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Well ID: Aidlin #12

Field: Geysers

Calpine

Well Name: Aidlin # 12

Sect: 32 Town: 12 N Rng: 9 W County: Sonoma State: CA

Cleaned out cement to 7515'. (1 hrs)

Circulated and conditioned mud at 7515'. (2 hrs)

Pulled out of the hole and laid down bit # 20. (4 hrs)

Made up the whipstock window mills for a dummy run in the casing. Mills tagged up at 6617' and worked them down to 6622' and could not go any more. (5.5 hrs)

Pulled out of the hole and laid down the whipstock window mills. (4 hrs)

Made up casing mills and welded straps on. Ran in the hole to 6617'. (5.5 hrs)

Milled on casing from 6617' to 6623'. (2 hrs)

Comments:

Cleaned out cement to 7515'. Circulated and conditioned mud at 7515'. Pulled out of the hole and laid down bit # 20. Made up the whipstock window mills for a dummy run in the casing. Mills tagged up at 6617' and worked them down to 6622' and could not go any more. Pulled out of the hole and laid down the whipstock window mills. Made up casing mills and welded straps on. Ran in the hole to 6617'. Milled on casing from 6617' to

6623'.

Mud Data:

MW: 8.6 Viscosity: 33 Filtrate: 18

Survevs: Daily Costs (\$): None

57.305

Well Costs (\$):

10.635,880

Drilling Days:

126

Completion Days:

Workover Days: 0

0

13-May-09

Current Depth (ft):

9,464

Hole Drilled (ft):

Ave ROP:

Current Ops:

00:00 to 06:00 Ran multiple Gyro runs having tool problems.

Operation Summary:

Ran in the hole from 6623' to 7515' with mills. (0.5 hrs)

Circulated hole clean at 7515'. (1 hrs)

Pulled out of the hole with the casing mills. (4 hrs)

Ran in the hole with the whipstock mills to 7515', mills went through bad casing at 6617' with no problems. (4 hrs)

Pulled out of the hole and laid down the mill assembly. (4.5 hrs)

Made up the whipstock and ran in the hole to 7505'. (6.5 hrs)

Rigged up the wire line truck and ran a Gyro survey to set the whipstock. (3.5 hrs)

Comments:

Ran in the hole from 6623' to 7515' with mills. Circulated hole clean at 7515'. Pulled out of the hole with the casing mills. Ran in the hole with the whipstock mills to 7515'. mills went through bad casing at 6617' with no problems. Pulled out of the hole and laid down the mill assembly. Made up the whipstock and ran in the hole to 7505'. Rigged up the

wire line truck and ran a Gyro survey to set the whipstock.

Mud Data:

MW: 8.5 Viscosity: 34 Filtrate: 18

Survevs:

None

68,216

Well Costs (\$):

10,704,100

Daily Costs (\$): **Drilling Days:**

127

Completion Days:

Workover Days:

0

14-May-09

Current Depth (ft):

7,515

Hole Drilled (ft):

Ave ROP: -1.949

Current Ops:

00:00 to 06:00 Circulated the hole clean and pulled out of the hole to change the mills.

Operation Summary:

Ran multiple Gyro runs having tool problems. Set the whipstock 40 degrees left of high right. (10.5 hrs)

Milled casing window off the whipstock ramp from 7492' to 7515'. (13.5 hrs)

Comments:

Ran multiple Gyro runs having tool problems. Set the whipstock 40 degrees left of high right. Milled casing window off the whipstock ramp from 7492' to 7515'.

Mud Data:

MW: 8.5 Viscosity: 70 Filtrate: 17

128

Surveys:

Daily Costs (\$):

Drilling Days:

None

162,722

Well Costs (\$):

Completion Days:

10,866,820

Workover Days:

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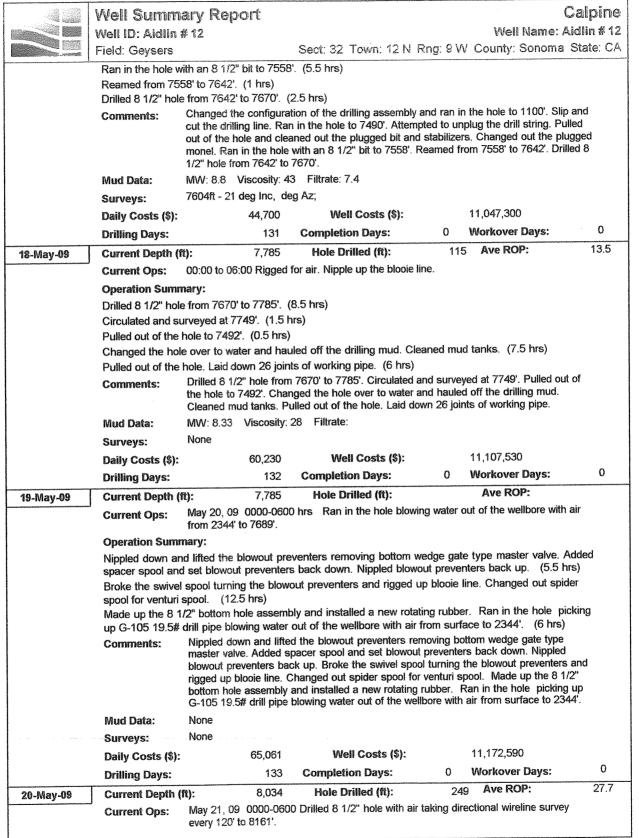
	Well Summ	ary Repo	ort				Calpine
	Well ID: Aidlin	# 12				Well Name:	Aidlin # 12
	Field: Geysers			Sect: 32 Town: 12 I	V Rng: 9 \	/V County: Sonom	a State: CA
15-May-09	Current Depth (1	Rt):	7,521	Hole Drilled (ft):		6 Ave ROP:	
	Current Ops:	00:00 to 06:0	00 Ran in t	he hole with a drilling ass	sembly and	reamed to 7521'.	
	Operation Sumr	nary:					
	Circulated hole c	lean at 7515'.	(1 hrs)				
				d window mills. (5.5 hrs))		
	Made up new wir	ndow mills and	d ran in the	e hole to 7492'. (5 hrs)			
	Milled window fro	om 7492' to 75	521'. (5.5 l	nrs)			
	Circulated hole c	lean at 7521'.	(0.5 hrs)				
	Pulled out of the			d window mills. (6.5 hrs)			
	Comments:	Made up nev	w window n	t 7515'. Pulled out of the nills and ran in the hole to clean at 7521'. Pulled out	o 7492'. Mill	led window from 7492	' to
	Mud Data:	MW: 8.7 V	iscosity: 45	5 Filtrate: 14			
	Surveys:	None					
	Daily Costs (\$):		56,424	Well Costs (\$):		10,923,240	
	Drilling Days:		129	Completion Days:	0	Workover Days:	0
16-May-09	Current Depth (ft):	7,642	Hole Drilled (ft):	12	Ave ROP:	11.5
	Current Ops:			ut of the hole and change the drilling line and starte	•	•	
	Operation Summ	nary:					
		-		hole to 7494'. (4.5 hrs)			
	Drilled 8 1/2" hole		•	·			
	Circulated and su	•	•	•			
	Drilled 8 1/2" hole		•	•			
	Circulated and su	₹					
	Drilled 8 1/2" hole		-	•			
	Circulated and si		-	•			
	Drilled 8 1/2" hole Circulated the ho			1 1115)			
		*	•	figuration of the drilling a	ssembly (3.5 hrs)	
	Comments:			bly and ran in the hole to			521' to
	Considers.	7536'. Circul Circulated ar surveyed at 7	lated and si nd surveyed 7604'. Drille	urveyed at 7510'. Drilled d at 7541'. Drilled 8 1/2" ed 8 1/2" hole from 7629 o change the configuratio	8 1/2" hole the hole from 75 to 7642'. C	from 7536' to 7566'. 566' to 7629'. Circulat irculated the hole clea	ed and
	Mud Data:	MW: 8.8 V	iscosity: 45	Filtrate: 7.2			
	Surveys:	7510ft - 18.9	deg Inc, o	deg Az; 7541ft - 18.9 deg	Inc, deg A	z;	
	Daily Costs (\$):		79,356	Well Costs (\$):		11,002,600	
	Drilling Days:		130	Completion Days:	0	Workover Days:	0
17-May-09	Current Depth (ft):	7,670	Hole Drilled (ft):	2	8 Ave ROP:	11.2
	Current Ops:	00:00 to 06:0	00 Drilled fr	om 7670' to 7748'.			
	Operation Sumr	nary:					
			the drilling	assembly and ran in the	hole to 110	00'. (2.5 hrs)	
I		1.::::::::::::::::::::::::::::::::::::	_	-		-	

(6.5 hrs)

Slip and cut the drilling line. (1.5 hrs) Ran in the hole to 7490'. (4 hrs)

Attempted to unplug the drill string. (0.5 hrs)

Pulled out of the hole and cleaned out the plugged bit and stabilizers. Changed out the plugged monel.





21-May-09

Well Summary Report

Well ID: Aidlin #12

Field: Geysers

Calpine

Well Name: Aidlin # 12

Sect: 32 Town: 12 N Rng: 9 W County: Sonoma State: CA

Operation Summary:

Ran in the hole with 8 1/2" bottom hole assembly blowing water out of the wellbore with air from 2344' to 7689'. (8.5 hrs)

Worked bottom hole assembly through window from 7492' to 7412'. (0.5 hrs)

Reamed 8 1/2" hole from 7412' to bottom at 7785'. (2 hrs)

Blew and cleaned hole pumping two soap slugs on bottom at 7785'. (1 hrs)

Pulled out of the hole to above bad spots in the casing at 6500'. (1 hrs)

Ran back in the hole to bottom at 7785', no problems. (1 hrs)

Drilled 8 1/2" hole with air from 7785' to 7909'. (5 hrs)

Blew hole clean and took a directional wireline survey at 7838'. (1 hrs)

Drilled 8 1/2" hole from 7909' to 8034'. (4 hrs)

Comments:

Ran in the hole with 8 1/2" bottom hole assembly blowing water out of the wellbore with air from 2344' to 7490'. Worked bottom hole assembly through the window from 7490' to 7512'. Reamed from 7512' to bottom at 7785'. Blew,and pumped two soap slugs cleaning the wellbore from 7785'. Pulled out wiping the hole up past bad spots in the casing at 6500'. Ran back in the hole to bottom at 7785', no problems. Drilled 8 1/2" hole to 8034' taking directional wireline survey at 7838'.

Mud Data:

None

Surveys:

7749ft - 22.1 deg Inc, 22 deg Az; 7838ft - 22 deg Inc, 27.5 deg Az;

Daily Costs (\$):

45,110

Well Costs (\$):

11,217,700

Workover Days:

0

Drilling Days:

134 8.383 Completion Days:
Hole Drilled (ft):

349 Ave ROP:

25.9

Current Depth (ft):

Current Ops:

V

May 22, 09 0000-0600 hrs: Pulled out of the hole and made up new bottom hole

assembly and stood it back in the derrick. Started changing out the ventura spool for the

spider spool.

Operation Summary:

Blew hole clean at 8034' and took directional wirline survey at 7963'. (1.5 hrs)

Drilled 8 1/2" hole with air from 8034' to 8161'. (4 hrs)

Blew clean at 8161' and took directional wireline survey at 8090'. (1 hrs)

Pulled up two stands and changed out worn rotating rubber for a new one. (1 hrs)

Drilled 8 1/2" hole from 8161' to 8319'. (5 hrs)

Blew clean at 8319' and took directional wireline survey at 8248'. (1 hrs)

Drilled 8 1/2" hole from 8319' to 8383'. Well started flowing at 8369'. (3.5 hrs)

Blew and clean hole. (0.5 hrs)

Pulled out of the hole to 6500' to cut bad drilling line off the drawworks drum. (1 hrs)

Slipped and cut 500' of bad drilling line off the drawworks drum. (2 hrs)

Pulled out of the hole laying down 22.82# G-105 drill pipe to drill with. (3.5 hrs)

Comments:

Drilled 8 1/2" hole with air from 8034' to 8383' taking directional wireline surveys at 7963', 8090' and 8319'. Note: well started flowing at 8369'. Pulled out of the hole to 6500'. Slipped and cut 500' of bad drilling line. Continued out of the hole laying down 14 joints of 22.82 G-105 drill pipe to drill with.

(ppm)	(#/hr) (NH3 #/hr)	H2s (ppm)	(H2S #/hr)	NH3
Restricted air on	16,300	253	4.1	500
8.2 Restricted Air off	16,300	350	5.7	500
8.2 Unrestricted 9.2	18,400	350	6.4	500

Mud Data:

None

Surveys:

7963ft - 21.8 deg Inc, 21.9 deg Az; 8090ft - 21.5 deg Inc, 23.7 deg Az;



Well ID: Aidlin # 12

Calpine

Well Name: Aidlin # 12

Field: Gevsers

Sect: 32 Town: 12 N Rng: 9 W County: Sonoma State: CA

Daily Costs (\$):	66,371	Well Costs (\$):	11,284,070	
Drilling Days:	135	Completion Days:	0 Workover Days:	0
Current Depth (ft):	8,508	Hole Drilled (ft):	125 Ave ROP:	27.8

22-May-09 **Current Ops:**

May 23, 09 0000-0600 hrs: Drilled 8 1/2" hole with air from 8508' to 8680' taking a wireline directional survey at 8477'. Note: well dried up and is not making any water.

Operation Summary:

Finished pulling out of the hole. (2 hrs)

Made up new 8 1/2:" bottom hole assembly and stood it back in the derrick. (1.5 hrs)

Close well in. Changed out ventura spool from spider spool in the blooie line. (6.5 hrs)

Serviced the rig. (0.5 hrs)

Ran in the hole to 4800'. (3 hrs)

Blew and cleared drill pipe. (0.5 hrs)

Ran in the hole to 7400'. (1.5 hrs)

Changed out worn rotating rubber for new one. Blew and cleared the drill pipe before going out the

window. (1 hrs)

Ran in the hole to 8320'. (0.5 hrs)

Blew the hole unloading approxamatly 125 barrels of water. (1 hrs)

Reamed and blew the hole from 8320' to bottom at 8383'. (1 hrs)

Drilled 8 1/2" hole with air from 8383' to 8508', hole making about 20-25 barrels of water per hour. (4.5

Comments:

Finished pulling out of the hole. Made up new bottom hole assembly and stood it back in the derrick. Shut the master valve shutting the well in Changed out the ventura spool for the spider spool in the blooie line. Opened well back up and ran in the hole to 4800' Cleared pipe with air. Ran in the hole to top of the window at 7450'. Installed new rotating rubber and blew and cleared drill pipe. Ran in the hole to 8320'. Blew well unloading approximaty 125 barrels of water. Reamed from 8320' to bottom at 8383'. Drilled 8 1/2" hole with air from 8383' to 8508', hole making approximaty 20 bph. .

(#/hr) (NH3 #/hr)	H2s (ppm)	(H2S #/hr)	NH3 (ppm)	
Restricted air	on 16,300	253	4.1	500
8.2 Restricted Air 8.2	off 16,300	350	5.7	500
Unrestricted 9.2	18,400	350	6.4	500

Wud Data:

None

Surveys:

8281ft - 21.5 deg Inc, 31.3 deg Az;

Daily Costs (\$):

57,719

Well Costs (\$):

11,341,790

0

Drilling Days:

136

Completion Days:

515 Ave ROP:

Workover Days:

0

23-May-09

Current Depth (ft):

9,023

Hole Drilled (ft):

Current Ops:

May 24, 09 0000-0600 hrs: Drilled 8 1/2" hole from 9023' to 9039', bit started torquing. Pumped sweep and pulled out of the hole. Bit not in bad shape but was missing one jet

nozzle causing the torqure down hole.

Operation Summary:

Drilled 8 1/2" hole with air from 8508' to 8548'. (1.5 hrs)

Blew and cleaned the hole. Took wireline directional survey at 8477'. (1.5 hrs)

Drilled 8 1/2" hole from 8548' to 8699'. (7.5 hrs)

Blew and cleaned the hole. Took wireline survey at 8699'. (1 hrs)

Drilled 8 1/2" hole from 8699' to 9023'. (8.5 hrs)

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Well ID: Aidlin # 12

Field: Gevsers

Calpine

Well Name: Aidlin # 12

Sect: 32 Town: 12 N Rng: 9 W County: Sonoma State: CA

Blew and cleaned the hole. Took wireline directional survey at 8952'. (1 hrs)

Wipped hole up inside the window at 7400'. (1 hrs)

Changed out worn rotating rubber for new one. (1 hrs)

Ran in the hole to 8985'. (0.5 hrs)

Safety reamed from 8985' to bottom at 9023'. (0.5 hrs)

Comments:

Drilled 8 1/2" hole with air from 8508' to 9023' taking wireline directional surveys at 8477, 8699' and 8952'. Wipe the hole up into the window at 7400'. Changed out worn rotating rubber. Ran back in the hole, no problems. Safety reamed 30' to bottom at

(#/hr) (NH3 #/hr)	H2s (ppm)	(H2S #/hr)	NH3 (ppm)	
Restricted air o	n 16,300	253	4.1	500
Restricted Air o	ff 16,300	500	8.2	500
Unrestricted	18,400	500	9.3	500

Mud Data:

None

Surveys:

8477ft - 21.6 deg Inc, 26.4 deg Az;

Daily Costs (\$):

45,736

9,167

Well Costs (\$):

11,387,520

Workover Days:

Drilling Days:

137

Completion Days:
Hole Drilled (ft):

144 Ave ROP:

0 32.0

24-May-09 Current Depth (ft):

Current Ops:

May 25, 09 0000-0600 hrs: Drilled 8 1/2" hole with air from 9167 to 9275. Well is still

making 15 bbls of water an hour.

Operation Summary:

Drilled 8 1/2" hole with air from 9023' to 9039'. Bit started torquing and stalling out. (0.5 hrs)

Slugged and cleaned hole. (0.5 hrs)

Pulled out of the hole. Broke bit off, bit was missing one jet. (6 hrs)

Made up bit #21 and new bottom hole assembly. (2 hrs)

Ran in the hole picking up 30 joints of 20# G-105. Continued on in the hole laying down 30 joint of 22.82# G-105 to drill with. (6 hrs)

Blew and cleared drill pipe. (0.5 hrs)

Ran in the hole to above the window at 7350'. (2.5 hrs)

Changed out worn rotating rubber for new one. Blew and cleared the drill pipe. (1 hrs)

Reamed to bottom at 9038' working junk (jet) off bottom. (1 hrs)

Drilled 8 1/2" hole with air from 9039' to 9167' (4 hrs)

Comments:

Drilled 8 1/2" hole from 9023' to 9039', bit started torquing. Pumped sweep and pulled out of the hole. Bit not in bad shape but was missing one jet nozzle which had caused the torque down hole. Made up new 8 1/2" bottom hole assembly. Ran in the hole picking up 30 joints of 20# G-105. Continued on in the hole laying down 30 joint of 22.82# G-105 to drill with. Continued in the hole to above the window at 7400'. Changed out worn rotating rubber for a new one and cleared the drill pipe with air. Ran in the hole to 8984'. Reamed to bottom at 9038'. Pumped slug and worked junk (jet) off bottom. Drilled 8 1/2" hole with air from 9039' to 9167'. Well is making 15 barrels of water per hour.

Note: Attempted to take a wet test but well keeps fluctuating on its flow flowing a lot less then the wet test below. We are abating to the wet test below which is a higher value. We will continue to try and get an accurate wet test.

(#/hr)

H2s (ppm)

(H2S #/hr)

NH3 (ppm)

(NH3 #/hr)

	Well Summ	ary Report					Calpin
	Well ID: Aidlin	# 12				 Well Name: 	: Aidlin#1
	Field: Geysers		Sect: 32	2 Town: 12 N R	ng: 9 V	/ County: Sonom	a State: C
		Restricted air on	16,300	253		4.1	500
		8.2 Restricted Air off 8.2	16,300	500		8.2	500
		Unrestricted 9.2	18,400	500		9.3	500
	Mud Data:	None					
	Surveys:	8699ft - 21 deg Inc,	23.7 deg Az;				
	Daily Costs (\$):	65,46	8 W	ell Costs (\$):		11,452,990	
	Drilling Days:	13		tion Days:	0	Workover Days:	0
25-May-09	Current Depth (ft): 9,71	8 Hole I	Orilled (ft):	551	Ave ROP:	29.0
	Current Ops:	•	600 Drilled 8 le to 9050'. Dr	1/2" hole with air to op the blocks due t	9845'. to mecha	Blew and cleaned th anical failure.	e hole.
	Operation Sum	mary:					
		e with air from 9167'	-	*			
	Blew hole clean	and took directional	wireline surve	y at 9204'. (1.5 hr	s)		
		e from 9275' to 9591					
		and took directional		y at 9520'. (1 hrs	s)		
		e from 9591' to 9687					
	Blew and cleane	d the hole. (0.5 hrs)					
	•	up to 9364'. (0.5 hrs					
	Changed out wo	rn rotating rubber for	new one. (0.	5 hrs)			
		hole to 9657' (0.5 hr	•				
	Safety reamed 3	0' to bottom at 9687'	(0.5 hrs)				
	Safety reamed 3 Drilled 8 1/2" hol	0' to bottom at 9687' e from 9687' to 9718	. (0.5 hrs) 3'. (1 hrs)	407/4 0007/4-kin			mt 0204
	Safety reamed 3	0' to bottom at 9687' le from 9687' to 9718 Drilled 8 1/2" hole wand 9591'. Wiped h	. (0.5 hrs) 8'. (1 hrs) vith air from 9 nole up to 9364	I' and changed wor	rn rotatin	nal wireline surveys g rubber for a new o 9687'. Continued to	ne.
	Safety reamed 3 Drilled 8 1/2" hol	0' to bottom at 9687' te from 9687' to 9718 Drilled 8 1/2" hole v and 9591'. Wiped h Ran back in the hol 1/2" hole to 9717'.	. (0.5 hrs) 8'. (1 hrs) vith air from 9 nole up to 9364	I' and changed wor	rn rotatin ottom at	g rubber for a new o	ne.
	Safety reamed 3 Drilled 8 1/2" hol	0' to bottom at 9687' to 9718 from 9687' to 9718 Drilled 8 1/2" hole vand 9591'. Wiped han back in the hol 1/2" hole to 9717'. (#/hr) H2s (NH3 #/hr) Restricted air on	. (0.5 hrs) 3'. (1 hrs) with air from 9 noie up to 9364 e safety reami	t' and changed wor ing the last 30' to b	rn rotatin ottom at	g rubber for a new o 9687'. Continued to	ne.
	Safety reamed 3 Drilled 8 1/2" hol	0' to bottom at 9687' to 9718 from 9687' to 9718 Drilled 8 1/2" hole vand 9591'. Wiped han back in the hol 1/2" hole to 9717'. (#/hr) H2s (NH3 #/hr)	. (0.5 hrs) 3'. (1 hrs) vith air from 9 nole up to 9364 e safety reami	t' and changed wor ing the last 30' to b (H2S #/hr)	rn rotatin ottom at	g rubber for a new o 9687'. Continued to H3 (ppm) 6.7	ne. drill 8 500 500
	Safety reamed 3 Drilled 8 1/2" hol	0' to bottom at 9687' to 9718 prilled 8 1/2" hole wand 9591'. Wiped han back in the hol 1/2" hole to 9717'. (#/hr) H2s (NH3 #/hr) Restricted air on 7.3 Restricted Air off	. (0.5 hrs) i'. (1 hrs) vith air from 9 nole up to 936- le safety reami (ppm)	t' and changed wor ing the last 30' to b (H2S #/hr) 464	rn rotatin ottom at	g rubber for a new o 9687'. Continued to H3 (ppm)	ne. drill 8 500
	Safety reamed 3 Drilled 8 1/2" hol	O' to bottom at 9687' te from 9687' to 9718 Drilled 8 1/2" hole v and 9591'. Wiped I Ran back in the hol 1/2" hole to 9717'. (#/hr) H2s (NH3 #/hr) Restricted air on 7.3 Restricted Air off 7.3 Unrestricted 9.2 None	. (0.5 hrs) 3'. (1 hrs) with air from 9 nole up to 936- e safety ream (ppm) 14,500 14,500 20,100	t' and changed woring the last 30' to b (H2S #/hr) 464 503 503	rn rotatin ottom at Ni	g rubber for a new o 9687'. Continued to H3 (ppm) 6.7 7.3 9.3	ne. drill 8 500 500 500
	Safety reamed 3 Drilled 8 1/2" hol Comments:	O' to bottom at 9687' le from 9687' to 9718 Drilled 8 1/2" hole v and 9591'. Wiped In Ran back in the hol 1/2" hole to 9717'. (#/hr) H2s (NH3 #/hr) Restricted air on 7.3 Restricted Air off 7.3 Unrestricted 9.2 None 8952ft - 19.1 deg Ir	. (0.5 hrs) 3'. (1 hrs) with air from 9 nole up to 936- e safety ream (ppm) 14,500 14,500 20,100	t' and changed woring the last 30' to b (H2S #/hr) 464 503 503	rn rotatin ottom at Ni	g rubber for a new o 9687'. Continued to H3 (ppm) 6.7	500 500 500
	Safety reamed 3 Drilled 8 1/2" hol Comments: Mud Data: Surveys:	O' to bottom at 9687' to 9718 Prilled 8 1/2" hole vand 9591'. Wiped I' Ran back in the hol 1/2" hole to 9717'. (#/hr) H2s (NH3 #/hr) Restricted air on 7.3 Restricted Air off 7.3 Unrestricted 9.2 None 8952ft - 19.1 deg Ir Inc, 33.3 deg Az;	. (0.5 hrs) 3'. (1 hrs) with air from 9 hole up to 9364 e safety reami (ppm) 14,500 14,500 20,100 nc, 30.7 deg A	t' and changed woring the last 30' to b (H2S #/hr) 464 503 503	rn rotatin ottom at Ni	g rubber for a new of 9687'. Continued to H3 (ppm) 6.7 7.3 9.3	500 500 500
	Safety reamed 3 Drilled 8 1/2" hol Comments: Mud Data: Surveys: Daily Costs (\$):	O' to bottom at 9687' le from 9687' to 9718 Drilled 8 1/2" hole v and 9591'. Wiped h Ran back in the hol 1/2" hole to 9717'. (#/hr) H2s (NH3 #/hr) Restricted air on 7.3 Restricted Air off 7.3 Unrestricted 9.2 None 8952ft - 19.1 deg Ir Inc, 33.3 deg Az; 45,67	. (0.5 hrs) 3'. (1 hrs) with air from 9 hole up to 9364 e safety reami (ppm) 14,500 14,500 20,100 nc, 30.7 deg A	t' and changed woring the last 30' to b (H2S #/hr) 464 503 503 z; 9204ft - 19.5 deg	rn rotatin ottom at Ni	g rubber for a new of 9687'. Continued to H3 (ppm) 6.7 7.3 9.3 5 deg Az; 9520ft - 2	500 500 500 500
	Safety reamed 3 Drilled 8 1/2" hol Comments: Mud Data: Surveys:	O' to bottom at 9687' le from 9687' to 9718 Drilled 8 1/2" hole v and 9591'. Wiped I Ran back in the hol 1/2" hole to 9717'. (#/hr) H2s (NH3 #/hr) Restricted air on 7.3 Restricted Air off 7.3 Unrestricted 9.2 None 8952ft - 19.1 deg Ir Inc, 33.3 deg Az; 45,67	. (0.5 hrs) 3'. (1 hrs) with air from 9 nole up to 936- le safety reami (ppm) 14,500 14,500 20,100 nc, 30.7 deg A 3 W 9 Comple	t' and changed woring the last 30' to b (H2S #/hr) 464 503 503 z; 9204ft - 19.5 deg fell Costs (\$): tion Days:	g Inc, 33	g rubber for a new of 9687'. Continued to 9687'. Continued to H3 (ppm) 6.7 7.3 9.3 5 deg Az; 9520ft - 2 11,498,670 Workover Days:	500 500 500 500 3.4 deg
26-May-09	Safety reamed 3 Drilled 8 1/2" hol Comments: Mud Data: Surveys: Daily Costs (\$):	0' to bottom at 9687' to 9718 brilled 8 1/2" hole vand 9591'. Wiped han back in the hol 1/2" hole to 9717'. (#/hr) H2s (NH3 #/hr) Restricted air on 7.3 Restricted Air off 7.3 Unrestricted 9.2 None 8952ft - 19.1 deg lr lnc, 33.3 deg Az; 45,67 13 (ft): 9,84 May 27, 09 0000-0	. (0.5 hrs) 3'. (1 hrs) with air from 9 nole up to 936- le safety reami (ppm) 14,500 14,500 20,100 nc, 30.7 deg A 3 W 9 Comple	t' and changed woring the last 30' to b (H2S #/hr) 464 503 503 z; 9204ft - 19.5 deg fell Costs (\$): tion Days: Drilled (ft):	g Inc, 33	g rubber for a new of 9687'. Continued to 43 (ppm) 6.7 7.3 9.3 5 deg Az; 9520ft - 2 11,498,670 Workover Days:	500 500 500 500 3.4 deg
26-May-09	Safety reamed 3 Drilled 8 1/2" hol Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days: Current Ops:	0' to bottom at 9687' to 9718 brilled 8 1/2" hole vand 9591'. Wiped han back in the hol 1/2" hole to 9717'. (#/hr) H2s (NH3 #/hr) Restricted air on 7.3 Restricted Air off 7.3 Unrestricted 9.2 None 8952ft - 19.1 deg lr Inc, 33.3 deg Az; 45,67 13 May 27, 09 0000-0 string.	. (0.5 hrs) 3'. (1 hrs) with air from 9 nole up to 936- le safety reami (ppm) 14,500 14,500 20,100 nc, 30.7 deg A 3 W 9 Comple	t' and changed woring the last 30' to b (H2S #/hr) 464 503 503 z; 9204ft - 19.5 deg fell Costs (\$): tion Days: Drilled (ft):	g Inc, 33	g rubber for a new of 9687'. Continued to 9687'. Continued to H3 (ppm) 6.7 7.3 9.3 5 deg Az; 9520ft - 2 11,498,670 Workover Days: 7 Ave ROP:	500 500 500 500 3.4 deg
26-May-09	Safety reamed 3 Drilled 8 1/2" hol Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days: Current Depth (Current Ops:	0' to bottom at 9687' to 9718 brilled 8 1/2" hole vand 9591'. Wiped han back in the hol 1/2" hole to 9717'. (#/hr) H2s (NH3 #/hr) Restricted air on 7.3 Restricted Air off 7.3 Unrestricted 9.2 None 8952ft - 19.1 deg lr Inc, 33.3 deg Az; 45,67 13 May 27, 09 0000-0 string.	. (0.5 hrs) . (1 hrs) with air from 9 hole up to 9364 e safety reami (ppm) 14,500 14,500 20,100 nc, 30.7 deg A 3 W 9 Comple 5 Hole 1600. Making r	t' and changed woring the last 30' to b (H2S #/hr) 464 503 503 z; 9204ft - 19.5 deg fell Costs (\$): tion Days: Drilled (ft):	g Inc, 33	g rubber for a new of 9687'. Continued to 9687'. Continued to H3 (ppm) 6.7 7.3 9.3 5 deg Az; 9520ft - 2 11,498,670 Workover Days: 7 Ave ROP:	500 500 500 500 3.4 deg

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Well ID: Aidlin # 12

Well Name: Aidlin # 12

Calpine

Field: Gevsers

Sect: 32 Town: 12 N Rng: 9 W County: Sonoma State: CA

Pulled out of the hole to 9050'. (1 hrs)

Rig traveling blocks failed due to problem with the brake drum breaking system (cause still under investiation at report time). The traveling blocks dropped aprox 90' with drill string attached. Drill string apears to be intact, and setting in the elevators on the No injuires to any personel. Began to make repairs to the rig. (18 hrs)

Comments:

Rig traveling blocks failed due to problem with the brake drum breaking system (cause still under investiation at report time). The traveling blocks dropped aprox 90' with drill string attatched. Drill string apears to be intact, and setting in the elevators on the rotary table. No injuires to any personel occured. Began to make repairs to the rig.

(ppm)	(#/hr) (NH3 #/hr)	H2s (ppm)	(H2S #/hr)	NH3
Restricted air on 8.8	14,500	759	13.3	500
Restricted Air off 8.8	17,500	1036	18.1	500
Unrestricted	24,300	1036	25.2	500

Mud Data:

None

Surveys:

None

67,020

Well Costs (\$):

11,565,690

Daily Costs (\$): **Drilling Days:**

Workover Days:

Completion Days: 140

0

27-May-09

Current Depth (ft): Current Ops:

9,845 Hole Drilled (ft): Ave ROP:

May 28. 0-6:00 AM. Continued to pull out of the hole, began to magna flux BHA. Drill string float was leaking, could not continue to magna flux BHA. Pulled out of the hole.

Will finish magna fluxing BHA when running back in the hole.

Operation Summary:

Made repairs to the rig. (17 hrs)

Screwed into drill string with kelly and circulated with air. String was free. Laid down the first 15 its of drill pipe and inspected tool joints for stretching, all tool joints checked out good. Pulled out of the hole, laid down 30 joints total of 22# G drill pipe. (7 hrs)

Comments:

Made repairs to the rig. Screwed into drill string with kelly and circulated with air. String was free. Laid down the first 15 its of drill pipe and inspected tool joints for stretching, all tool joints checked out good. Pulled out of the hole, laid down 30 joints total of 22# G drill pipe to drill with.

(ppm)	(#/hr) (NH3 #/hr)	H2s (ppm)	(H2S #/hr)	NH3
Restricted air on 7.6	15,100	439	6.6	500
Restricted Air off 7.6	15,100	1036	15.6	500
Unrestricted	21,000	1036	21.8	500

Mud Data:

None

Surveys:

None

Daily Costs (\$): **Drilling Days:**

Well Costs (\$): 44,002

11,609,690 0 Workover Days:

28-May-09

Current Depth (ft):

141 9,845 **Completion Days:** Hole Drilled (ft):

Ave ROP:



Well ID: Aidlin # 12

Field: Gevsers

Calpine

Well Name: Aidlin # 12

Sect: 32 Town: 12 N Rng: 9 W County: Sonoma State: CA

Current Ops:

May 26, 0-6:00 AM. Continued to make up and finish magna fluxing the BHA. Picked up 30 its of 20# G drill pipe.

Operation Summary:

Continued to pull out of the hole, began to magna flux BHA. Drill string float was leaking, could not continue to magna flux BHA. Pulled out of the hole. Will finish magna fluxing BHA when running back in the hole. Broke bit, shut in well. (8 hrs)

Changed out rotary table, magna fluxed rotary table pins. Reapirs to rig from dropped blocks are now complete. Rig had 45 hrs total of down time. (11 hrs)

Made up new BHA. (2 hrs)

Shut in well head pressure 245 psi after 13 hrs . Opened well. Muffler plugged. Shut in well. Unplugged muffler and water lines. Opened well and let blow down. (3 hrs)

Continued to pull out of the hole, began to magna flux BHA. Drill string float was leaking , could not continue to magna flux BHA. Pulled out of the hole. Will finish magna fluxing BHA when running back in the hole. Broke bit, shut in well. Changed out rotary table, magna fluxed rotary table pins. Reapirs to rig from dropped blocks are now complete. Rig had 45 hrs total of down time Made up new BHA. Shut in well head pressure 245 psi .Opened well. Muffler plugged. Shut in well. Unplugged muffler and water lines. Opened well and let blow down.

(#/hr) F (NH3 #/hr)	H2s (ppm)	(H2S #/hr)	NH3 (ppm)	
Restricted air or	15,100	439	6.6	500
Restricted Air of 7.6	ff 15,100	1036	15.6	500
Unrestricted 10.5	21,000	1036	21.8	500

Mud Data:

None

Surveys:

None

Daily Costs (\$):

66,748

Well Costs (\$):

11,676,440

Drilling Days:

142

Completion Days:

Workover Days:

0 24.4

29-May-09

Current Depth (ft):

10,016

Hole Drilled (ft):

Current Ops:

Ave ROP:

Operation Summary:

Continued to make up and finish magna fluxing the BHA. Found one cracked pin on saver sub. (6 hrs)

May 30 . 0- 6:00AM. Continued to drill from 10,016' to 10,120'.

Picked up 30 joints of 20 # G drill pipe. Ran in the hole clearing drill pipe with air every 3000 ft. Worked thru tight spot at 7472' with kelly. Measured drill pipe on the trip in the hole. (9 hrs)

Reamed from 9785' to 9845'. (1 hrs)

Ran directional survey at 9835'. (1 hrs)

Drill from 9845 ft to _10016 ft (7 hrs)

Comments:

Continued to make up and finish magna fluxing the BHA. Found one cracked pin on saver sub Picked up 30 joints of 20 # G drill pipe. Ran in the hole clearing drill pipe with air every 3000 ft. Worked thru tight spot at 7472' with kelly. Measured drill pipe on the trip in the hole. Reamed from 9785 to 9845 Ran directional survey at 9835 Drill from _ 9845 ft to _10016 ft.

Steam Flow Emissions;

Restricted air on Restricted Air off

13,100 #/hr , H2S 913 ppm or 12 #/hr, NH3 6.6 #/hr. 13,100 #/hr , H2S 1036 ppm or 13.6 #/hr , NH3 6.6 #/hr .

Unrestricted

18,200 #/hr , H2S, 1036 ppm or 18.9 #/hr , NH3 9.6 #/hr .



Well ID: Aidlin #12

Well Name: Aidlin # 12

Field: Geysers

Sect: 32 Town: 12 N Rng: 9 W County: Sonoma State: CA

Mud Data:

None

Surveys:

9822ft - 26.7 deg Inc, 38.8 deg Az;

Daily Costs (\$):

54,611

Well Costs (\$):

11,731,050

Drilling Days:

143

Completion Days:

0 Workover Davs:

0

Calpine

30-May-09

Current Depth (ft):

10,314

Hole Drilled (ft):

298 Ave ROP:

17.0

Current Ops:

May 31, 0-6:00 AM. Finished pulling out of the hole. Shut in well 2 hrs. Changed bits, stabs gauged 1/16 og. Tailboard on opening well. Opened well. Began to run in the

hole.

Operation Summary:

Drill from 10,016 ft to 10,152 ft. (8.5 hrs) Ran directional survey at 10,107. (1 hrs) Drill from 10,152 ft to 10,314 ft. (9 hrs)

Circulated hole clean. (0.5 hrs)

Pulled out of the hole, laid down 9 its of 22 # G pipe. (5 hrs)

Commonte

Drill from 10,016 ft to 10,152 ft.Ran directional survey at 10,107.Drill from 10,152 ft to 10,314 ft.Circulated hole clean.Pulled out of the hole, laid down 9 its of 22 # G pipe.

Note; H2S PPM increased 700 PPM to 1756 PPM on the last bit run.

Steam Flow Emissions:

Restricted air on

12,800 #/hr , H2S 758 ppm or 9.7 #/hr, NH3 6.4 #/hr. 12,800 #/hr , H2S 1756 ppm or 22.5 #/hr , NH3 6.4 #/hr .

Restricted Air off Unrestricted

17,800 #/hr , H2S, 1756 ppm or 18.9 #/hr , NH3 9.6 #/hr .

Mud Data:

None

Surveys:

10107ft - 33.2 deg Inc, 38.8 deg Az;

Daily Costs (\$):

47,296

Well Costs (\$):

11,778,340

Drilling Days:

144

Completion Days:

Workover Days:

31-May-09

Current Depth (ft):

10,314

Hole Drilled (ft):

Ave ROP:

Current Ops:

June 1, 0 -6:00 AM. Pulled out of the hole and laid down 8 1/2" swage and tools. Made

up 8 1/2" drilling assembly. Started to run in the hole.

Operation Summary:

Finished pulling out of the hole. Shut in well 2 hrs. Changed bits, stabs gauged 1/16 og. Tailboard on opening well. Opened well. Began to run in the hole. Tagged bad spot in the casing at 6605'. Attempt to work thru it failed. Pulled out of the hole. Stood back BHA. (14 hrs)

Tailboard. Shut in the mastervalve. Installed compressed air line to the 3" mud cross valve. Pumped 90 ,000 culft of air to hold down well gas. Removed 4 1/2" steel pipe rams and installed 7" casing rams. (4 hrs)

Made up 8 1/2" casing swage assembly. Tailboard. Opened well and blew down.Ran in the hole to 7400'. Did not see any significant obstructions at 6605'. (6 hrs)

Comments

Finished pulling out of the hole. Shut in well 2 hrs. Changed bits, stabs gauged 1/16 og. Tailboard on opening well. Opened well. Began to run in the hole. Tagged bad spot in the casing at 6605'. Attempt to work thru it failed. Pulled out of the hole. Stood back BHA. Tailboard. Shut in the mastervalve. Installed compressed air line to the 3" mud cross valve. Pumped 90 ,000 cu/ft of air to hold down well gas. Removed 4 1/2" steel pipe rams and installed 7" casing rams. Made up 8 1/2" casing swage assembly. Tailboard. Opened well and blew down.Ran in the hole to 7400'. Did not see any significant obstructions at 6605'.

Steam Flow Emissions :



Well ID: Aidlin # 12

Field: Gevsers

Calpine

Well Name: Aidlin # 12

Sect: 32 Town: 12 N Rng: 9 W County: Sonoma State: CA

Restricted air on Restricted Air off Unrestricted

12,800 #/hr , H2S 758 ppm or 9.7 #/hr, NH3 6.4 #/hr. 12,800 #/hr , H2S 1756 ppm or 22.5 #/hr , NH3 6.4 #/hr . 17,800 #/hr , H2S, 1756 ppm or 31.1 #/hr , NH3 8.9 #/hr .

None

Mud Data: Surveys:

None

Daily Costs (\$):

67,520

Well Costs (\$):

11.845.860

Drilling Days:

Current Depth (ft):

145

Completion Days:

Workover Days:

0

Current Ops:

10.314

Hole Drilled (ft):

Ave ROP:

June 2, 0-600 AM. Finished pulling out of the hole , laid down 8 1/2" milling BHA. Made

up 8 1/2" drilling BHA and began to run in the hole.

Operation Summary:

Pulled out of the hole, laid down 8 1/2"swage. Made up 8 1/2" drilling BHA, ran in the hole. Unable to work thru bad spot at 6605'. Pulled out of the hole, stood back drilling BHA. Made up 8 1/2" milling BHA. Ran in the hole. (20 hrs)

Milled casing from 6605' to 6623'. (2 hrs)

Ran in the hole to 7400'. Pulled out of the hole. (2 hrs)

Comments:

Pulled out of the hole, laid down 8 1/2"swage. Made up 8 1/2" drilling BHA, ran in the hole. Unable to work thru bad spot at 6605'. Pulled out of the hole, stood back drilling BHA. Made up 8 1/2" milling BHA. Ran in the hole.Milled casing from 6605' to 6623' Ran in the hole to 7400'. Pulled out of the hole.

Steam Flow Properties;

Restricted air on Restricted Air off 12,800 #/hr , H2S 758 ppm or 9.7 #/hr, NH3 6.4 #/hr. 12,800 #/hr , H2S 1756 ppm or 22.0 #/hr , NH3 6.4 #/hr .

Unrestricted

17,800 #/hr , H2S, 1756 ppm or 30.6 #/hr , NH3 8.9 #/hr .

Mud Data:

None None

Daily Costs (\$):

Surveys:

64,536

Well Costs (\$):

11,910,400

Drilling Days:

146

Completion Days:

Workover Days: 0

0

02-Jun-09 **Current Depth (ft):** 10.552

Hole Drilled (ft):

Ave ROP: 238

19.0

Current Ops:

00:00 to 06:00 Drilled from 10,552' to 10,625. 10 # steam entry with 14 degree temp. increase at 10,580'

Operation Summary:

Pulled out of the hole and laid down the mills. (3 hrs)

Made up drilling assembly and ran in the hole to 10,226'. (6 hrs)

Reamed from 10,226' to 10,314'. (1 hrs) Drilled from 10,314' to 10,437'. (6 hrs) Circulated and surveyed at 10,392'. (1.5 hrs) Drilled from 10,437' to 10,552'. (6.5 hrs)

Comments:

Pulled out of the hole and laid down the mills. Made up drilling assembly and ran in the hole to 10,226'. Reamed from 10,226' to 10,314'. Drilled from 10,314' to 10,437'.

Circulated and surveyed at 10,392'. Drilled from 10,437' to 10,552'.

Steam Flow Properties

Restricted air on

15,200 #/hr , H2S 883 ppm or 13.4 #/hr, NH3 7.6 #/hr. 15,200 #/hr , H2S 1718 ppm or 26.1 #/hr , NH3 7.6 #/hr .

Restricted Air off Unrestricted

None

21,100 #/hr , H2S,1718 ppm or 36.2 #/hr ,NH3 10.6 #/hr .

Mud Data:

Well Summ	arv Report				Calpir			
		Sect: 32 Town: 12 I	N Rng: 9 W					
	10392ft - 39.4 deg	***						
•	_			11.963 000				
, ,,,	•	• • •		, ,	0			
		* *			16.1			
Current Ops:	00:00 to 06:00 Slip	and cut the drilling line. Run	in the hole an	d circulate and run a				
Operation Summary:								
Drilled from 10,552' to 10,825'. (17 hrs)								
tool leaving half th	ne tool in the drill str	ring. (2 hrs)	ie survey tooi	broke the threads o	n the			
•	• .	•						
	·							
	last run the survey string. Changed out drilling line.	tool broke the threads on the it the rotating rubber. Pulled o ties; 17,700 #/hr , H2S 922 17,700 #/hr , H2S 1821	tool leaving hout of the hole ppm or 16.3 # ppm or 32.2 \$	alf the tool in the drill to 7400'. Slip and cu /hr, NH3 9.2 #/hr. i/hr , NH3 9.2 #/hr .				
Mud Data:	None	, , ,	• •	•				
Surveys:	None							
Daily Costs (\$):	63,16	Well Costs (\$):		12,026,170				
Drilling Davs:	14	8 Completion Days:	0	Norkover Days:	0			
Current Depth (ff): 10.82°	Hole Drilled (ft):	harry, same and a second	Ave ROP:				
Current Ops:	•	ed out of the hole and laid do	wn the mills. I	nstalled the 7" maste	er			
Operation Summ	ary:							
Slipped and cut drilling line and serviced the rig. (1 hrs)								
	Ran in the hole to 10,825'. No fill on bottom. (2 hrs)							
Circulated and rar Pulled out of the I 6620'. Changed of bar. (10 hrs)	n a wet test. (1 hrs) hole. Pulled 40 K or out the rotating rubb) iver string weight when we ca ber. Laid down the stabilizers	and the mor	el to retrieve the su	rvey			
Circulated and rar Pulled out of the I 6620'. Changed o bar. (10 hrs) Made up the millir closed the pipe ra	n a wet test. (1 hrs) hole. Pulled 40 K or out the rotating rubb ing assembly and ra ims and changed or) over string weight when we ca ber. Laid down the stabilizers an in the hole. Evacuated the out the rotating rubber and co	and the more rig floor due	to high H2s alarms	rvey			
Circulated and rar Pulled out of the I 6620'. Changed of bar. (10 hrs) Made up the milling closed the pipe ra Milled tight spot in	n a wet test. (1 hrs) hole. Pulled 40 K or out the rotating rubb ing assembly and ra ins and changed or ithe casing from 66) over string weight when we can ber. Laid down the stabilizers an in the hole. Evacuated the out the rotating rubber and co 617' to 6645'. (1 hrs)	and the more rig floor due	to high H2s alarms	rvey			
Circulated and rar Pulled out of the I 6620'. Changed of bar. (10 hrs) Made up the millin closed the pipe ra Milled tight spot in Pulled out of the h	n a wet test. (1 hrs) hole. Pulled 40 K or but the rotating rubbing assembly and raums and changed out the casing from 66 hole with the mills. (Slipped and cut drill bottom. Circulated a weight when we car rubber. Laid down timilling assembly an closed the pipe ram	over string weight when we can ber. Laid down the stabilizers an in the hole. Evacuated the out the rotating rubber and constitution (2 hrs) (2 hrs) (2 hrs) (1 hrs) (2 hrs) (2 hrs) (2 hrs) (3 hrs) (4 hrs) (5 hrs) (6 hrs) (6 hrs) (7 hrs) (8 hrs) (8 hrs) (9 hrs) (9 hrs) (1 hrs) (e rig floor due ontinued in the of the hole. Pasing at 6620' to retrieve the the rig floor ding rubber and	to high H2s alarms hole to 6617'. (7 hole to 6617'. (7 hole to 10,825'. No fill coulled 40 K over string. Changed out the rosurvey bar. Made upue to high H2s alarm continued in the hole	and ons) on g stating p the es and e to			
Circulated and rar Pulled out of the I 6620'. Changed of bar. (10 hrs) Made up the millin closed the pipe ra Milled tight spot in Pulled out of the In Comments:	n a wet test. (1 hrs) hole. Pulled 40 K or but the rotating rubbing assembly and raums and changed out the casing from 66 hole with the mills. (Slipped and cut drill bottom. Circulated a weight when we car rubber. Laid down timilling assembly an closed the pipe ram	over string weight when we can ber. Laid down the stabilizers an in the hole. Evacuated the out the rotating rubber and constitution (2 hrs) (2 hrs) (1 hrs) (2 hrs) (2 hrs) (2 hrs) (2 hrs) (3 hrs) (4 hrs) (4 hrs) (5 hrs) (6 hrs) (6 hrs) (6 hrs) (7 hrs) (7 hrs) (8 hrs) (Ran in the ho of the hole. P asing at 6620' to retrieve the the rig floor di ng rubber and to 6645'. Pulle ppm or 16.3 #, ppm or 32.2 #	to high H2s alarms hole to 10,825. No fill culled 40 K over string. Changed out the rosurvey bar. Made up to high H2s alarm continued in the hole dout of the hole with htr, NH3 9.2 #/hr. htr, NH3 9.2 #/hr.	and ons) on g stating p the es and e to			
	Well ID: Aidlin a Field: Geysers Surveys: Daily Costs (\$): Drilling Days: Current Depth (fit Current Ops: Operation Summ Drilled from 10,55 Circulated and ha tool leaving half th Changed out the r Pulled out of the r Slip and cut the di Comments: Mud Data: Surveys: Daily Costs (\$): Drilling Days: Current Depth (fit Current Ops:	Surveys: 10392ft - 39.4 deg Daily Costs (\$): 52,60 Drilling Days: 14 Current Depth (ft): 10,82 Current Ops: 00:00 to 06:00 Slip test. No fill on botto Operation Summary: Drilled from 10,552' to 10,825'. (17 ft) Circulated and had two make two su tool leaving half the tool in the drill str Changed out the rotating rubber. (1 ft) Pulled out of the hole to 7400'. (3 hrs. Slip and cut the drilling line. (1 hrs) Comments: Drilled from 10,552 last run the survey string. Changed out drilling line. Steam Flow Proper Restricted air on Restricted Air off Unrestricted Mud Data: None Surveys: None Daily Costs (\$): 63,16 Drilling Days: 14 Current Depth (ft): 10,82 Current Ops: 00:00 to 06:00 Puller rubber. Operation Summary: Slipped and cut drilling line and service.	Field: Geysers Surveys: 10392ft - 39.4 deg Inc, 37.6 deg Az; Daily Costs (\$): 52,606 Well Costs (\$): Current Depth (ft): Current Ops: 00:00 to 06:00 Slip and cut the drilling line. Run test. No fill on bottom. Start pulling out of the hole of the least run the tool leaving half the tool in the drill string. (2 hrs) Changed out the rotating rubber. (1 hrs) Pulled out of the hole to 7400'. (3 hrs) Slip and cut the drilling line. (1 hrs) Pulled out of the hole to 7400'. (3 hrs) Slip and cut the drilling line. (1 hrs) Comments: Drilled from 10,552' to 10,825'. Circulated and he last run the survey tool broke the threads on the string. Changed out the rotating rubber. Pulled of drilling line. Steam Flow Properties; Restricted air on 17,700 #/hr, H2S 1821 Unrestricted Wud Data: None Surveys: None Daily Costs (\$): 63,161 Well Costs (\$): Drilling Days: 148 Completion Days: Current Depth (ft): 10,825 Hole Drilled (ft): Current Ops: 00:00 to 06:00 Pulled out of the hole and laid do rubber. Operation Summary:	Field: Geysers Surveys: 10392ft - 39.4 deg Inc, 37.6 deg Az; Daily Costs (\$): 52,606 Well Costs (\$): Drilling Days: 147 Completion Days: 0 Current Depth (ft): 10,825 Hole Drilled (ft): 273 Current Ops: 00:00 to 06:00 Slip and cut the drilling line. Run in the hole an test. No fill on bottom. Start pulling out of the hole to run the 7' Operation Summary: Drilled from 10,552' to 10,825'. (17 hrs) Circulated and had two make two survey runs. On the last run the survey tool tool leaving half the tool in the drill string. (2 hrs) Changed out the rotating rubber. (1 hrs) Pulled out of the hole to 7400'. (3 hrs) Slip and cut the drilling line. (1 hrs) Comments: Drilled from 10,552' to 10,825'. Circulated and had two make the last run the survey tool broke the threads on the tool leaving half run the survey tool broke the threads on the tool leaving half run the survey tool broke the threads on the tool leaving half run the survey tool broke the threads on the tool leaving half run the survey tool broke the threads on the tool leaving half run the survey tool broke the threads on the tool leaving half run the survey tool broke the threads on the tool leaving half run the survey tool broke the threads on the tool leaving half run the survey tool broke the threads on the tool leaving half run the survey tool broke the threads on the tool leaving half run the survey tool broke the threads on the tool leaving half run the survey tool broke the threads on the tool leaving half run the survey tool broke the threads on the tool leaving half run the survey tool broke the threads on the tool leaving half run the survey tool broke the threads on the tool leaving half run the survey tool broke the threads on the tool leaving half run the survey tool broke the threads on the tool leaving half run the survey tool broke the threads on the tool leaving half run the survey tool broke the threads on the tool run the survey tool broke the threads on the tool run the survey tool broke the threads on the tool run the survey to	Field: Geysers Sect: 32 Town: 12 N Rng: 9 W County: Sonoma Surveys: 10392ft - 39.4 deg Inc, 37.6 deg Az; Daily Costs (\$): 52,606 Well Costs (\$): 11,963,000 Drilling Days: 147 Completion Days: 0 Workover Days: Current Depth (ft): 10,825 Hole Drilled (ft): 273 Ave ROP: Current Ops: Oi:00 to 06:00 Slip and cut the drilling line. Run in the hole and circulate and run a test. No fill on bottom. Start pulling out of the hole to run the 7" slotted liner. Operation Summary: Drilled from 10,552 to 10,825. (17 hrs) Circulated and had two make two survey runs. On the last run the survey tool broke the threads of tool leaving half the tool in the drill string. (2 hrs) Changed out the rotating rubber. (1 hrs) Pulled out of the hole to 7400'. (3 hrs) Slip and cut the drilling line. (1 hrs) Comments: Drilled from 10,552' to 10,825'. circulated and had two make two survey runs. On last run the survey tool broke the threads on the tool leaving half the tool in the drill string. Changed out the rotating rubber. Pulled out of the hole to 7400'. Slip and cut drilling line. Steam Flow Properties; Restricted air on 17,700 #/hr , H2S 922 ppm or 16.3 #/hr, NH3 9.2 #/hr. Unrestricted Air off 17,700 #/hr , H2S 1821 ppm or 32.2 #/hr , NH3 9.2 #/hr. Workover Days: Mud Data: None None Surveys: None Daily Costs (\$): 63,161 Well Costs (\$): 12,026,170 Drilling Days: 148 Completion Days: 0 Workover Days: Current Depth (ft): 10,825 Hole Drilled (ft): Ave ROP: Current Ops: Operation Summary:			

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RIMBase

Page: 58 of 61



Well ID: Aidlin # 12

Calpine Well Name: Aidlin # 12

Field: Gevsers

Sect: 32 Town: 12 N Rng: 9 W County: Sonoma State: CA

10-Jun-09

Current Depth (ft):

10.825

Hole Drilled (ft):

Ave ROP:

Current Ops:

June 11,09 0000-0600 hrs: Rig down and off Calpine pay rates. FINAL REPORT.

Operation Summary:

Dressed out floor for the rig move while waiting on daylights to clean the pits. (5 hrs)

Cleaned the pits. Rig on move rate at 1200 hrs. (7 hrs)

Installed and rigged up bridle line and made rig ready to lay over. (4 hrs)

While lowering the derrick the bridle line pulled out of the of the wireline rope socket attached to the derrick dropping the derrick to the ground. (Note: the bridle line was new and was just installed). There was extensive damage to the derrick. (0.5 hrs)

Shut down all operations to investagae and evaluated damage to the rig (7.5 hrs)

Comments:

Rigged down rig and dressed floor while waiting on daylight to clean the pit. Cleaned the pit. Rig on move rate at 1200hrs. Installed and rigged up new bridle lines to lower derrick. Started lowering the derrick. While lowering the derrick the bridle line pulled out of the of the wireline rope socket attached to the derrick dropping the derrick to the ground. (Note: the bridle line was new and was just installed). There was massive damage to the derrick. Shut down all operations for investigation.

Mud Data:

None

Surveys: Daily Costs (\$): None

82,462

Well Costs (\$):

13,730,590

Drilling Days:

155

Completion Days:

0 Workover Days: 0

18-Jun-09

Current Depth (ft):

10,825

Hole Drilled (ft):

Ave ROP:

Current Ops:

Cost Update

Operation Summary:

Comments:

Mud Data:

None

Surveys:

None

Daily Costs (\$):

85,134

Well Costs (\$):

13.815.730

Drilling Days:

Completion Days: 155

Workover Days:

	Well Summ	arv Repor	ť				Calı	pine	
PARTONIS PROPERTY CONTRACTOR THE CONTRACTOR	Well ID: Aidlin	-				Well Na	me: Aidlii	•	
	Field: Geysers		S	ect: 32 Town: 12	N Rng: 9				
	Daily Costs (\$):	5	7,355	Well Costs (\$):		12,083,520			
	Drilling Days:	ŭ	•	ompletion Days:	0	Workover Day	·e•	0	
		C13					73.		
05-Jun-09	Current Depth (•	0,825	Hole Drilled (ft):		·	and.		
	Current Ops:			hole with the 7" liner : lar at 6473'. Killed th					
	Operation Sumr		Ü			. •	• •		
	•	•	wn the mill	ing assembly. (3 hrs	s)				
	Installed 7" mast	er rubber in the f	30P. (2 hr	s)	•				
	Serviced the rig			• ` '					
	fresh air system	and H2s safety.	(1 hrs)	rty employees on rui					
	Rigged up Secon system. (2 hrs)	rp cascade syste	m and cas	sing equipment. Had	employees	make a dry run v	with the		
	Ran 7" slotted liv								
	fresh air system	and H2s safety.	(1 hrs)	rty employees on rui		ve liner with the c	ascade		
			•	ar and ran in the hole					
	Installed a rotatir Comments:			le with the drill pipe a laid down the milling					
		system and H2 employees mak with crews and air system and	s safety. Ri e a dry run all third pa H2s safety.	nployees on running gged up Secorp caso with the system. Ra rty employees on run Picked up 8 1/8" red bber and ran in the h	cade system n 7" slotted ning the live ceptacle and	n and casing equip live liner. Held a t e liner with the cas d setting collar and	oment. Had ail board scade fresh I ran in the		
	Mud Data:	None					_		
	Surveys:	None							
	Daily Costs (\$):	6:	2,715	Well Costs (\$):		12,146,240			
	Drilling Days:			ompletion Days:	0	Workover Day	/s:	0	
06-Jun-09	Current Depth (it): 10	0,825	Hole Drilled (ft):		Ave ROP:	4,44 mm may 1) a llayer majority dynamic met de 1,500 te 150		
J	Current Ops:	•	Laid down o	frill pipe and drill colla	ırs.				
	Operation Sumr	narv:							
	•	with the 7" liner o	on drill pipe	and set on bottom a	at 10,825 a	nd released off th	e setting		
	Started pumping water and killed the well. (0.5 hrs)								
	Otalica paliping			J.U 1110)					
			n drill pipe.	Pulled out of the ho	e and laid	down the setting of	collar's		
	Pulled out of the running tools. (9	hole laying dow hrs)		Pulled out of the ho			collar's		
	Pulled out of the running tools. (9 Ran in the hole a	hole laying dow hrs) and tagged the to	op of the lin	Pulled out of the holes			collar's		
	Pulled out of the running tools. (9 Ran in the hole a Laid down drill pi	hole laying dow hrs) and tagged the to pe keeping the w	op of the lin	Pulled out of the holes er at 6500' with a co 5 hrs)	ild well. (6	hrs)			
	Pulled out of the running tools. (9 Ran in the hole a	hole laying down hrs) hrs) and tagged the to be keeping the warm off the setting of hole laying down hole laying down hole laying down hrs.	op of the lingel dead. (with the 7" collar at 647 or drill pipe. Ran in the h	Pulled out of the holes at 6500' with a co 5 hrs) liner on drill pipe and 3'. Started pumping by Pulled out of the holes ole and tagged the to	old well. (6 d set on bot water and k and laid d	hrs) ttom at 10,825 and illed the well. Pulle own the setting co	I released ed out of the llar's		
	Pulled out of the running tools. (9 Ran in the hole a Laid down drill pi	hole laying down hrs) and tagged the to pe keeping the ware Ran in the hole off the setting of hole laying down	op of the lingel dead. (with the 7" collar at 647 or drill pipe. Ran in the h	Pulled out of the holes at 6500' with a co 5 hrs) liner on drill pipe and 3'. Started pumping by Pulled out of the holes ole and tagged the to	old well. (6 d set on bot water and k and laid d	hrs) ttom at 10,825 and illed the well. Pulle own the setting co	I released ed out of the llar's		
	Pulled out of the running tools. (9 Ran in the hole a Laid down drill pi Comments:	hole laying down hrs) and tagged the to be keeping the warm Ran in the hole off the setting of hole laying down running tools. Faid down drill in the setting tools and the setting tools are the setting tools and the setting tools.	op of the lingel dead. (with the 7" collar at 647 or drill pipe. Ran in the h	Pulled out of the holes at 6500' with a co 5 hrs) liner on drill pipe and 3'. Started pumping by Pulled out of the holes ole and tagged the to	old well. (6 d set on bot water and k and laid d	hrs) ttom at 10,825 and illed the well. Pulle own the setting co	I released ed out of the llar's		
	Pulled out of the running tools. (9 Ran in the hole a Laid down drill pi Comments: Mud Data: Surveys:	hole laying down hrs) and tagged the to pe keeping the warm in the hole off the setting of hole laying down running tools. Faid down drill property in the setting the setting tools are the setting tools. Faid down drill property in the setting tools are the setting tools are the setting tools. Faid down drill property in the setting tools are the set	op of the lingel dead. (with the 7" collar at 647 or drill pipe. Ran in the h	Pulled out of the holes at 6500' with a co 5 hrs) liner on drill pipe and 3'. Started pumping by Pulled out of the holes ole and tagged the to	old well. (6 d set on bot water and k and laid d	hrs) ttom at 10,825 and illed the well. Pulle own the setting co	I released ed out of the llar's		
	Pulled out of the running tools. (9 Ran in the hole a Laid down drill pi Comments:	hole laying down hrs) and tagged the to pe keeping the warm in the hole off the setting of hole laying down running tools. Faid down drill property in the setting the setting tools are the setting tools. Faid down drill property in the setting tools are the setting tools are the setting tools. Faid down drill property in the setting tools are the set	op of the linvell dead. (with the 7" collar at 647 n drill pipe. Ran in the h pipe keeping	Pulled out of the holer at 6500' with a co 5 hrs) liner on drill pipe and 3'. Started pumping Pulled out of the hole ole and tagged the to g the well dead.	old well. (6 d set on bot water and k and laid d	hrs) ttom at 10,825 and tilled the well. Pulle own the setting co er at 6500' with a d	I released ed out of the Ilar's cold well.	0	

