AMAX EXPLORATION, INC. GEOTHERMAL BRANCH

Information Transmittal Form

To:0'Br	rien Resources		Grass Va	lley, CA			
Comp	pany		1	Address			
Attention:	Dale Corman		Presiden	t			
	Name		and a Charles Marriage of many and a rela-	Title			
Authority: Contrac							
Date of	Contract		Section	18		************	
Enclosed Items: M	laps □ Logs □ Reports	☐ Ar	nalyses	□ Plans	☐ Sch	edules	□ AFE
Item	Description		Field	Copy Draft	[inal	Date	7
	Description		rieid	Dratt		Date	1
Lith logs	25-9 and 38-9 holes				X	3/81	-
temp logs	SP, gamma & resistivity	/ woll	<u> </u>				-
	logs for same holes.	well					1
	reger to come notes.			-			1
			AND CO. LONG				1
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Sent by: H. Dean Pi	ilkington Name			10/23/ Date	81		
Receipt acknowledged	by:Name		-	D	ate		

	Project: Mc	Coy
	Hole: 25-9	
Elevation:_	5776	Date Drilled 26/3/81 thru 3/5/81
Location:	NWSW Sec 9 T22N R40E	Method: rotary/air/ and/or mud
Geologist:_	Avery	Gamma:
Depth ()	Desc	cription
0- 15'	Overburden: Edwards C conglomerate float in	reek tuff float, and Triassic basal mud-silt-sand.
15- 65'	sub-rounded to subangu of brown, reddish brow gray and brown quartzi	merate (T _{rc}): Strongly cemented lar gravel and pebble size clasts in, red, gray and green chert; white te. Cement is SiO ₂ , with much ast edges, in fractures, and in ulder-size clasts of
65- 75'		dition of rounded reddish-purple llow-brown chert fragments.
75- 85'		pearance of reddish brown, finely ng up approximately 20-30 % of
85- 95'	roui	quartzite clasts $\approx 80\%$ of total. nded chert pebbles $\approx 10\%$ of total. n-brown siltstone $\approx 10\%$ of total.
95-125'	Same as above, but silt	tstone now ≃30-40% of total.
125-155'	pebbles, and reddish-bu	nce of buff (orange-gray) ss uff silt-st. pebbles (both new material ~25-35% of total.
155-215'	making up between 20% a	l, orange-gray silty sand-st. and 55% of total sample in this counded pebbles (chert/quartzite) 80% of total.
215-225'	Same as above. Silty s	s <20% of total now.
225-245'	densely cemented, l.g. subangular clasts. Iro some hydrous copper oxi	te/qtzite conglomerate that is qtzite with gravel-size, n staining on fracture faces, and de coatings on some fragments tary features as opposed to older y, etc.).

Project: McCoy
Hole: 25-9

Elevation:		Date Drilled:
Location:	· · · · · · · · · · · · · · · · · · ·	Method:
Geologist:	Avery	Gamma:
Depth (♣)	Des	cription
245-260	Gray-orange sand-st. to 155-215' interval	/silty sand-st. conglomerate similar
260-300'	conglomerate. Addit fragments (angular).	iron stained gravel-pebble ion of a few limestone pebble-size Some larger fragments of quartzite) in last 20'.
300-320'	Chert T _{rc} conglomera (as in 245-260') (40	te (60-40%), orange gray silty ss -60%).
320-330'	FeS ₂ , CuFeS ₂ mineral	glomerate (T_{rc}) . One clast shows ization (as granular coating on er vein through pebble).
330-350	T _{rc} with orange-gray of silty ss drops fr	silty ss as in 300-320'. Percent om 50% to 20% over this interval.
350-360	80% qtzite chert/qtz	ite pebble conglomerate: (T _{rc}).
360-390	Same as 330-350'	
390-410'	90% gravel-pebble-bo (T _{rc}), 10% silty ss.	ulder chert/qtzite conglomerate:
410-420	Gravel size chert/qt (T _{rc}).	zite conglomerate with qtzite (35%):
420-440	Gray-orange silty ss (65%): (T _{rc}).	(35%), chert/qtzite conglomerate
440-450'	mineralization as gra	e with CuFeS2, bornite, pyrite anular fracture fillings, coatings, of qtzite. Few green/red banded
450-500'	(m.g., subrounded gra	up to 50% orange-gray ss sand. ains). Purple color to some cs. Color of ss becomes darker

Project: McCoy Hole: 25-9

Elevation:	Date Drilled:
Location:	Method:
Geologist:	Gamma:
Depth ()	Description
500-560'	T_{rc} (as before but now all gravel size subrounded to subangular clasts of chert and quartzite with 20-60% orange-gray silty sandstone).
560-580'	T_{rc} as before but now 70% quartzite; 20% silty-ss; 10% chert gravels and pebbles.
580-620'	T _{rc} as before but no orange-gray silty ss.
620-640'	T _{rc} as before with 5-30% silty ss.
640-650'	T_{rc} pebble conglomerate (chert & quartzite about 30-50%).
650-720'	Trc chert, quartzite, and dark brown to reddish brown silicified siltstone gravels and pebbles, rounded to angular, with varying ratios of up to 40% siltstone, 60% quartzite.
720-730'	90% reddish dk. brown silicified siltstone. 10% gravels (T_{rc}).
730-760'	T_{rc} silicified siltstone as above with a siltstone/chert gravel conglomerate in a siltstone matrix (up to 70% matrix).
760-780'	T_{rc} chert/qtzite pebble-gravel conglomerate with siltstone.
780-790'	T_{rc} as above w/20% silt-st. pebbles. Pyrite and chalcopyrite? As granular fracture fillings, coatings.
790-800'	Quartzite: v.f.g. w/distinct black grains in otherwise white quartzite w/blebs or nodules of black, sulfide-rich silicified siltstone.
800-8201	T_{rc} chert/qtzite pebble-gravel conglomerate w/minor pyrite (granular).
320-840'	T _{rc} as before but no mineralization.

Project: McCoy 25-9 Hole: Date Drilled: Elevation: Method: Location: Geologist: Avery Depth 🕞 Description 840-8501 T_{rc} as before with 20% brown silicified silt-st. 850-8801 Quartzite: f.c. to l.g., dense, well-cemented (gray). Very minor sulfide mineralization (pyrite) as before. Trc 880-9001 30% quartzite as above, 60% dk. gray, dense, silicifed silt-st. Slight effervescence in dilute HCI, with minor sulfide mineralization as granular coatings and in stringers. Very few chips of gray 1s with dk. gray silt-st. inclusions (silt-st. slightly calcareous). 900-920' 20% gray Ls, (hardness $\approx 2 \frac{1}{2}$); 30% gray-dk. gray calcareous silt-st., (hardness ≈2 1/2-3); gray-lt. gray calcareous ss (hardness $\approx 4 \frac{1}{2}$) and a f.c. silty ss make up 50% of total. Tro 920-940' As above, with 50% of total sample comprised of dense, gray, non-calcareous quartzite (hardness \approx 6-7). Tro 940-960' Quartzite, as above with 50% gtzite/chert gravel conglomerate. 960-9701 30-40% reddish-brown silicified silt-st., some with calcite stringer veings (H \simeq 4), 50-60% gray, dense, f.c. quartzite (some brownish-gray) (H 6) and about 10% chert/quartzite gravel conglomerate. Minor sulfides (granular pyrite c-pyrite). 970-9801 90% mottled and banded lt. gray - v. dk. gray calcareous silt-st. (H $\simeq 2$ 1/2 to 3 1/2). Some fragments have f.c. appearance. Minor sulfides as granular fracture fillings, veinlets? 10% or less silt-st. as before. Trc

80% gray-dk. gray f.g-f.c. quartzite w/minor sulfides as before. 20% chert/qtzite gravel conglomerate w/minor

sulfides as before. Tro

980-990'

Project: McCoy Hole: 25-9 Elevation: Date Drilled: Location: Method: Gamma: Geologist: Depth Description 30-90% chert/qtzite subrounded-subangular gravel 990-10901 conglomerate with green, gray, brown chert and gray qtzite (as before, Trc) 10-70%. F.g.-f.c. gray quartzite. 1090-1100 40-50% conglomerate as above; 60-50% orange-gray sandy silt-st. 30-50% greenish gray chert, rounded-angular pebble-gravel size chips-clasts. 30-50% gray, brownish-gray f.g. 1100-12001 qtzite; 10-40% silty ss (orange-gray). Tro 1200-1440' 50-95% chert, qtzite, chert/qtzite conglomerate (Trc) as before. 5-50% buff, orange-gray or lt. brown-tan silty ss to sandy ss. Appearance of purple/red-gray qtzite, conglomerate. Tro 1440-1460' 60-70% tan-lt. brown sandy silt-st. 30-40% gravel conglomerate. Tro 1460-1540' 40-80% gravel-pebble (T_{rc}) conglomerate. Mostly v.f. gravels, rounded-angular. 20-60% orange-gray to 1t. brown silty-ss and sandy silt-st. 1540-1600' Chocolate-brown gtzite/chert gravel-pebble conglomerate (60% of total). Brown silty-ss, orange-gray sandy ss (40%). Trc 1600-1620' 80-100% chert/qtzite conglomerate w/bedded chert (angular chert clasts 40%). 1620-1640' 50% reddish-purple, silicified, subrounded to rounded silt-st. pebbles and finely crushed silt-st. containing large angular quartz phenocrysts. Many pebbles are graywacke (clay/silt-st. matrix with quartz phenocrysts see sample!). 30-40% Trc conglomerate as before. 10-20% grayish green qtzite and chert. Havallah Formation. 1640-1650' Fault zone: about 2% of total is greenish-white, soft (H< 2), w/greasy feel, splintery soapstone (tall and/or

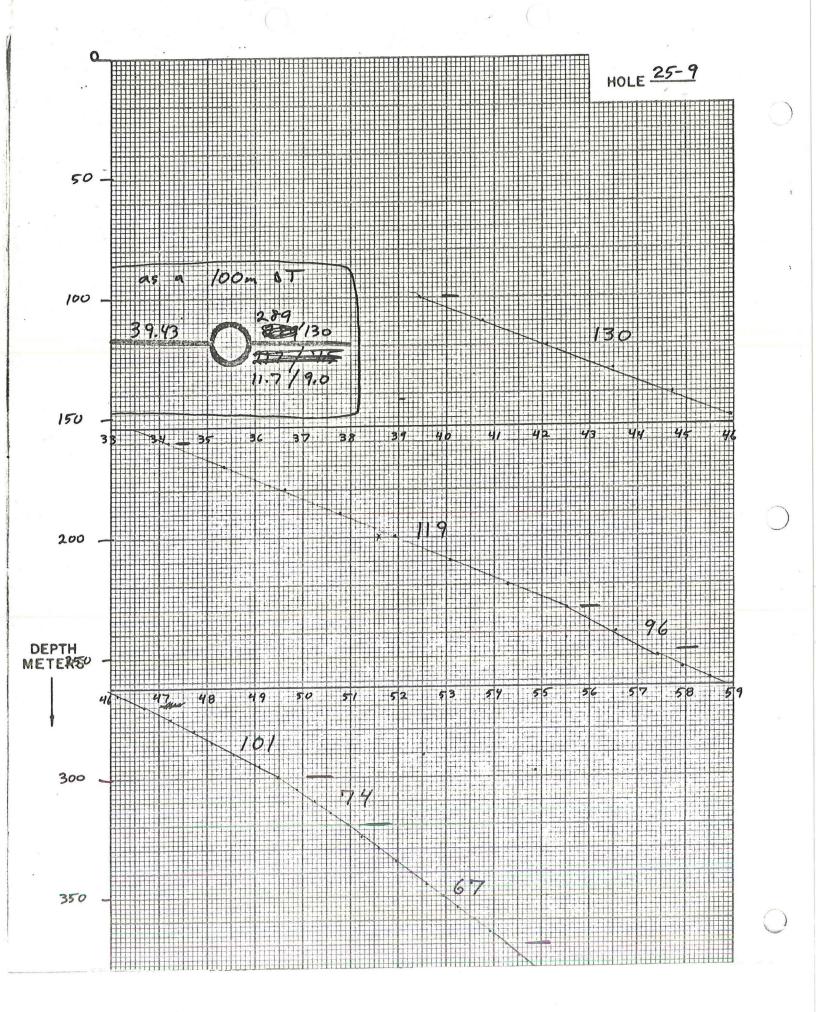
other clay minerals). Does not expand when heated. 40%

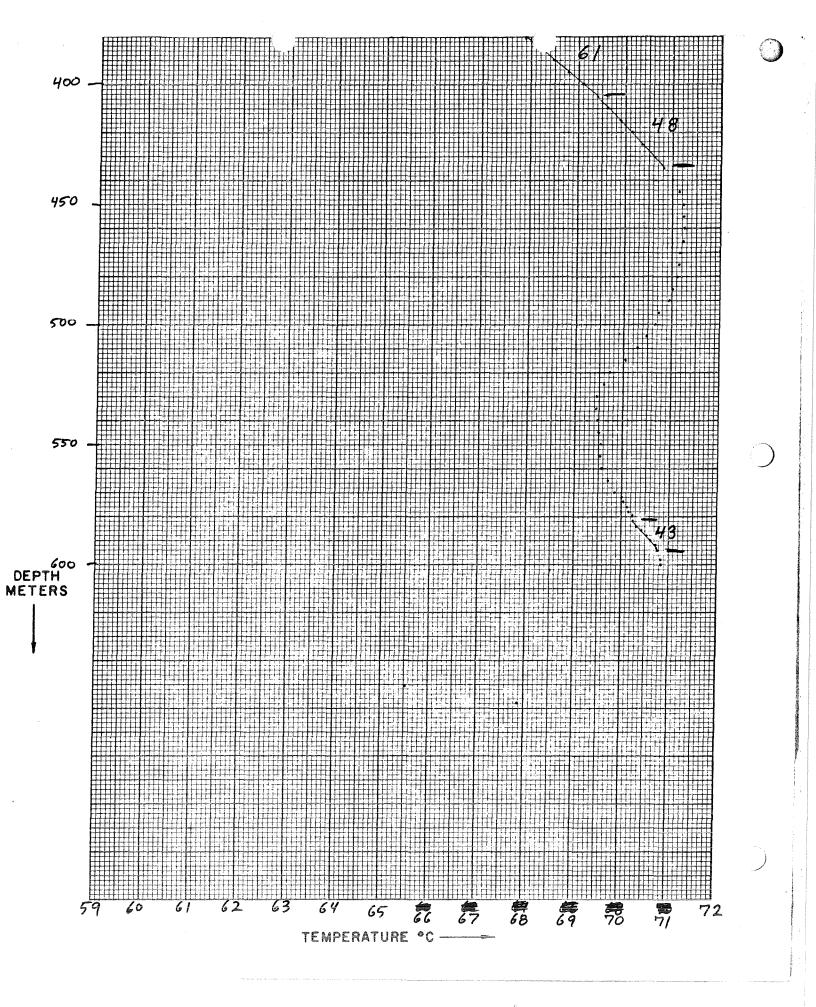
	Project: McCoy
	Hole: 25-9
Elevation:	Date Drilled:
Location:	Method:
Geologist:	Gamma:
Depth ()	Description
	brown, lt. brown, red-brown, white, gray v.f.g. qtzite. 58% (!) red-purple silicified siltstone conglomerate or fault breccia with very angular clasts of chert, qtzite, and silt-st. Many have calcite veins, caps. Calcite shows stress in curved cleavage faces.
1650-1660	As above, but no clay minerals present. Few pebbles of graywacke with micaceous flakes (muscovite). Appearance of green/lime-green chert w/iron staining (PPh?). (Note: basal T_{rc} unit mapped east of 864-90 contains siltstones and conglomerates with identical micaceous flakes).
1660-1690	As above (1640-1660), but increasing amount of green, green w/red iron stains on micro-fractures chert (20-75% of total). Fault breccia still present (10-50%). Very little graywacke (PPh).
1690-1740	As above with 30-60% green, gray, dk. green chert. 20-30% silty graywacke which is now slightly calcareous and has pheocrysts of qtzite (no micaceous flakes). 0-10% brown qtzite (f.g.).
1740-1750	No sample.
1750-1880	40-80% green-gray chert as angular gravel size chips. 15-45% reddish brown-purple silicified siltstone gravel size chips. 5-30% gray brown quartzite gravel size chips (P _{ph}). 5-30% graywacke (calcareous w/SiO ₂ phenocrysts - not micaceous).
1880-2000	80-90% chert and dark purple/brown silicified silt-st.; $10-20\%$ buff to gray quartzite; occasional rock fragments of T_{rc} chert gravel-pebble conglomerate from uphole - very iron-stained.
	(Note: Both the chert (green, lime-green, dk. green iron stained on micro-fractures green) and the silicified silt-st. (dark reddish-purple brown to reddish orange to gray-orange) were mapped as outcrops and low "rubble" hills 1-2 miles east of 25-9 and 1-3 miles east of 864-90. Hand samples of these PP Havallah sequence rocks are available - see Avery's rock collection!).

RECEIVED OCT 29 1981

AMAX EXPLORATION, INC. TEMPERATURE/DEPTH LOG

- 1						$\Delta \mathbf{T}$	Well No.	2	5-9
	Property-Proje	ect Mc Cov				_Depth L	ogged 60	70m	
	Map	Sc	ale 7	1/2	Date: Drill	ed 5-2	-\$1 Loc	gged 8-9	5-81
	State NV	County Churc	hill,	of	of NW	of 500	of Sec 9	T22 M	
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Date Logged: 5 -/5-8/

ΔT Well No.____

Depth (meters)	Instr. Reading	Temp.	ΔΤ	Grad. °C/km	(Est.)	H ₂ 0 Air	Lithology, etc.
90.	55,04	38.02				4	
100	52.24	39.43		-	-		
110	49.72	40.76		-	-		
120	47.31	42.10	12000000		-		
130	44.94	43.48			-		
140	42.93	44,71			-		
150	41.05	45,92			-		
160	39.15	47.20			-		
170	37.50	48,37		-	-		
180	35,79	49.63			-		
190	34,30	50.79	-				
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(meters)	Reading	°C	ΔΤ	°C/km	(Est.)	Air	Litho Cable	logy, etc.	10973
200	33,30	51.60					Casic	مالن	.1309
250	26.94	57.42	5,82						
255	26,42	57.96	0,54	108					
260	25,90	58,51	0.55	110					
265	25,30	59.16	0,65	130					
270	24.81	59.70	0.54	108			· · · · · · · · · · · · · · · · · · ·		
275	24.32	60,26	0,56	112					
280	23.92	60.72	0.46	92					
285	23.61	61.09	0,37	74			\.		
290	23.23	61.54	0.45	90		41.			<u> </u>
295	22,77	62.10	0.56	112					
300	22.47	62.47	0.27	54					
305	22:15	62.87	0.40	80					
310	21.85	63.26	0,39	78					
315	21.60	63.59	0,33	66					
320	21.33	63,94	0.35	70					
325	21.11	64.23	0,29	58					
330	20.84	64.60	0.34	72					
335	20,57	64,97	0,37	74					
340	20,35	65,27	0.30	60					
345	20.11	65,61	0.34	68		1			
350	19.87	65,95	0,34	68					
365	19.65	66.26	0.31	62					
360	19,41	66.61	0.35	70	,				
365	19.20	66.92	0.31	62					
370	18.97	67.27	0.35	70					
375	18.80	67.53	0.26	52					

Depth (meters)	Instr. Reading	Temp.	ΔΤ	Grad. °C/km	(Est.)	H ₂ 0 Air	Lithology, etc.
380	18.56	\$7.89	0.36	72			
385	18.37	68.19	0.30	60			
390	18.18	68,49	0.30	60	19 15		*
395	18,00	68,77	0,28	56			
400	17.80	69.09	0.32	64	20.5		
405	17.61	69.40	0.31	62			
410	17.48	69.61	0.28	42			
415	17,31	69.89		56			
420	17.17	70.13	0,26	52		, 1 - E - 1	
425	17.03	70,36	0.23		3,44		a proper for a contract of the first of the
430	16.90	70.59	1 97 - 153	46	100		
435	16.76	70,83	0,24	34	7.3		
440	16.66	71.00	0,14				
445	16,58	71.14	0.07	28			
450	16.54	71.21	0.02	4			
455	16.53	71.23	0.01	2			
460	16.52	71.24	-0.01	- 2	1.3		
465	16.53	71.23	-0.06	-12			
470	16.56	71.17	-0.03	- 6			
475	16.58	71.14	-0.04	-8			
480	16.66	71.10	-0.07	-14			
485	16,64	71.03	-0.08	-16			
490	16.69	70,95	-0,12	-24			
495	16.76	70.83	-0.18	-36			
500	16.86	70,65	-0,17	-34			
505	16.96	70.48	-0.18	-36			
510	17.07	70.30	0110	26			, the state of the

Ī	Depth	Instr.	Temp.	T	Grad.	Γĸ	H201	
	(meters)	Reading	°C	ΔΤ	°C/km	(Est.)	H ₂ 0 Air	Lithology, etc.
	515	17.21	70.06	-0,24	-48 -70			
	520	17.36	69,81					9
	525	17.49	69.60	-0,21	-42			
	530	17.58	69.45	-0,15	-30			14.
	535	17.58	69,45	0,00	0			
	540	17.57	69,47	0,02	4			
	545	17.54	69.51	0.04	8	,		
I	550		69.55	0.04	8			
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	560 565	17.50	69.58 69.71	0,13	26			
ŀ		,	69.88	0,17	34			
}	570	17.32		0.13	65			
ŀ	572	17.24	70.01	0.05	25			
-	574	17.21	70,06	0,07	35			
ŀ	576	17,17	70,13	0,03	15			
ļ	578	17.15	70,16	0.05	25			
-	580	17,12	70,21	0,04	20			
-	582	17.10	70,25	0.06	30			
	584	17.06	70.31	0,12	60			
	586	16,99	70,43	0.10	50			
	588	16.93	70,53	0,09	45			
	590	16.88	70,62	0,09	45			
-	592	16,83	70,71	0,05	25			
	594	16,80	70,76	<u> </u>	+			
	596			80,0	20-			
	598	16.75	70,84	0.04	200			6.
	600	16.74	70,86	0,07	20			
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Depth meters)	Instr. Reading	Temp. °C	ΔΤ	Grad. °C/km	K (Est.)	H ₂ 0 Air	Lithology, etc.
598	16.73	70,88	0,02	10	AX G		
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602	16.13			783	12.0		***************************************
604	16.12						
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