

DAILY DRILLING REPORT

Report No. _____

Well No. 88-11A

Date: 11/ /84

Location SE of SE SEC 11 T 1S R 35E

Spud Date 11/10/84

County, State Esmeralda, NV Contractor Willbros

Rig No. 10

Present Depth _____ Drilled _____ to _____ Footage cut last 24 hours _____

Mud / Air _____ Temperature in _____ °F. Out _____ °F. Mud Cooler On/Off _____ Mud Loss last 24 hrs. _____

Mud Weight _____ Vis. _____ Waterloss _____ cc PH _____ Mud Cost last 24 hrs. _____

Hole Size _____ " Deviation Surveys _____

Bit # _____

Stabilizers, Reamers _____

Shocksups and other _____

Lithology _____

Gases _____

Loss Circulation - Other _____

Mudlogger Monger Engineer/ Drilling Foreman Mara Geologist Deymonaz

ADDITIONAL REPORT _____

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u> to <u>17'</u>	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>288'</u>	Forward _____
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u> to <u>1055</u>	Daily Cost _____
Liner	_____	_____	_____ to _____	TOTAL TO DATE _____
Liner	_____	_____	_____ to _____	
Other	_____	_____	_____ to _____	

Cement Report _____

DAILY DRILLING REPORT

Report No. 1

Well No. 88-11A

Date: November 10, 1984

Location SF of SF SEC 11 T 1S R 35E

Spud Date 11/10/84

County, State Esmeralda, Nevada Contractor Willbros

Rig No. 10

Present Depth 167' Drilled 0' to 167' Footage cut last 24 hours _____

Mud / Air _____ Temperature in _____ °F Out _____ °F Mud Cooler On/Off _____ Mud Loss last 24 hrs. _____

Mud Weight 8.4 Vis. 40 Waterloss _____ cc PH 10.5 Mud Cost last 24 hrs. _____

Hole Size 26 " Deviation Surveys _____

Bit # 17½' - Security S4GJ - Smith 26"

Stabilizers, Reamers 100% Lithic Crystal

Shocksups and other _____

Lithology _____

Gases _____

Loss Circulation - Other Loss Circulation at 70'

Mudlogger _____ Engineer/ Drilling Foreman Otis Day / Ray Mara Geologist John Neymonaz

ADDITIONAL REPORT 5 hrs. rig up and pick up bha; 1½ hrs. drilling and spud 26" holes at 62';

3½ hrs. laid out 26" assembly and pick up 17½" assembly; 2 hrs. drilled at 70' loss circulation;

1½ hrs. sawdust; 10½ hrs. drilling 17½" holes to 167'

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	_____	_____	_____ to _____	Budgeted _____
Surface	_____	_____	_____ to _____	Forward _____
Intermediate	_____	_____	_____ to _____	Daily Cost _____
Liner	_____	_____	_____ to _____	TOTAL TO DATE _____
Liner	_____	_____	_____ to _____	
Other	_____	_____	_____ to _____	
Cement Report	_____			

DAILY DRILLING REPORT

Report No. 2

Well No. 88-11A

Date: November 11, 1984

Location SE of SE SEC 11 T 1S R 35E

Spud Date 11/10/84

County, State Esmeralda, Nevada Contractor Willbros

Rig No. 10

Present Depth 300' Drilled 167' to 300' Footage cut last 24 hours 133'

Mud / Air _____ Temperature in _____ °F. Out _____ °F. Mud Cooler On/Off _____ Mud Loss last 24 hrs. _____

Mud Weight 9.2 Vis. 49 Waterloss 0 cc PH 10.0 Mud Cost last 24 hrs. \$1,432.00

Hole Size 17½" " Deviation Surveys _____

Bit # #1 Security #90021 - Smith 26" - Hole Opener

Stabilizers, Reamers Reamer - 26" - #202526 -

Shocksups and other _____

Lithology 100% Crystal Cut

Gases _____

Loss Circulation - Other _____

Mudlogger _____ Engineer/ Drilling Foreman Otis Day/Ray Mara Geologist John Deymonaz

ADDITIONAL REPORT 3 hrs. drilling 17½" hole; 1/4 hrs survey; 11 3/4 hrs. drilling to 300'; 3 hrs. laid down 17½" bha; 6 hrs. pick up 26" bha to open hole

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	_____	_____	_____ to _____	Budgeted _____
Surface	_____	_____	_____ to _____	Forward _____
Intermediate	_____	_____	_____ to _____	Daily Cost _____
Liner	_____	_____	_____ to _____	TOTAL TO DATE _____
Liner	_____	_____	_____ to _____	
Other	_____	_____	_____ to _____	
Cement Report	_____			

DAILY DRILLING REPORT

Report No. 3

Well No. 88-11A

Date: November 12, 1984

Location SE of SE SEC 11 T 1S R 35E

Spud Date November 10, 1984

County, State Esmeralda, Nevada Contractor Willbros

Rig No. 10

Present Depth 300' Drilled 144' to 300' Footage cut last 24 hours 156'

Mud / Air _____ Temperature in 57 °E. Out 81 °E. Mud Cooler On/Off _____ Mud Loss last 24 hrs. _____

Mud Weight 9.4 Vis. 47 Waterloss _____ cc. PH 10.0 Mud Cost last 24 hrs. _____

Hole Size 26 " Deviation Surveys 1/4⁰

Bit # _____

Stabilizers, Reamers out of hole

Shocksups and other _____

Lithology _____

Gases _____

Loss Circulation - Other _____

Mudlogger _____ Engineer/ Drilling Foreman Otis Day / Ray Mara Geologist John Deymonaz

ADDITIONAL REPORT 10 hrs. open hole 26"; 1 hr. survey; 5 hrs. circulatoin; 1 1/2 hrs. trip; 1 1/2 hrs. laid down bha; 5 hrs. running 20" joints - 94 lb. - H-40

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	_____	_____	_____ to _____	Budgeted _____
Surface	_____	_____	_____ to _____	Forward _____
Intermediate	_____	_____	_____ to _____	Daily Cost _____
liner	_____	_____	_____ to _____	TOTAL TO DATE _____
Liner	_____	_____	_____ to _____	
Other	_____	_____	_____ to _____	

Cement Report _____

DAILY DRILLING REPORT

Report No. 4

Well No. 88-11A

Date: November 13, 1984

Location SE of SE SEC 11 T 1S R 35E

Spud Date November 10, 1984

County, State Esmeralda, Nevada Contractor Willbros Rig No. 10

Present Depth 300' Drilled _____ to _____ Footage cut last 24 hours _____

Mud / Air _____ Temperature in _____ °E. Out _____ °E. Mud Cooler On/Off _____ Mud Loss last 24 hrs. _____

Mud Weight _____ Vis. _____ Waterloss _____ cc. PH _____ Mud Cost last 24 hrs. _____

Hole Size 26 " Deviation Surveys _____

Bit # _____

Stabilizers, Reamers _____

Shocksups and other _____

Lithology _____

Gases _____

Loss Circulation - Other _____

Mudlogger _____ Engineer/ Drilling Foreman Otis Day / Ray Mara Geologist John Neymonaz

ADDITIONAL REPORT 6 hrs. - 7 joints, 94 lb - H-40 to 288' including float collar and guide; float collar - 244';

cemented - 625 sacks; 40% silica flour; 2% calcium chloride; good returns on cement; 8 hrs. waiting on cement;

10 hrs. - 20" annular bop

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	_____	_____	_____ to _____	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>288'</u>	Forward _____
Intermediate	_____	_____	_____ to _____	Daily Cost _____
Liner	_____	_____	_____ to _____	TOTAL TO DATE _____
Liner	_____	_____	_____ to _____	
Other	_____	_____	_____ to _____	

Cement Report _____

DAILY DRILLING REPORT

Report No. 5

Well No. 88-11A

Date: November 14, 1984

Location SE of SE SEC 11 T 1S R 35E

Spud Date November 10, 1984

County, State Esmeralda, Nevada Contractor Willbros Rig No. 10

Present Depth 316' Drilled 300' to 316' Footage cut last 24 hours 16'

Mud / Air _____ Temperature in 54 °E Out 82 °E Mud Cooler On/Off _____ Mud Loss last 24 hrs. _____

Mud Weight 9.0 Vis. 40 Waterloss 18 cc PH 10.5 Mud Cost last 24 hrs. _____

Hole Size _____" Deviation Surveys _____

Bit # VSJ Smith EH8513

Stabilizers, Reamers Reamer #20319; 9½" collar; blade stabilizer #10002; crossover; H&H shock; blade stabilizer #90043;
3 - 10" collars; crossover; 3 - 8½" collars; crossover to drill pipe

Shocksups and other _____

Lithology 100% crystal cut

Gases _____

Loss Circulation - Other _____

Mudlogger Wayne Monger Engineer/ Drilling Foreman Ray Mara Geologist John Neymonaz

ADDITIONAL REPORT 7½ hrs. drill up; 3½ hrs. pick up 17½" bha; 3½ hrs. drill cement plug; shoe and float;
10½ hrs. drilling

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	_____ to _____	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>288</u>	Forward _____
Intermediate	_____	_____	_____ to _____	Daily Cost _____
Liner	_____	_____	_____ to _____	TOTAL TO DATE _____
Liner	_____	_____	_____ to _____	
Other	_____	_____	_____ to _____	
Cement Report	_____			

DAILY DRILLING REPORT

Report No. 6

Well No. 88-11A

Date: November 15, 1984

Location SE of SE SEC 11 T 1S R 35E

Spud Date November 10, 1984

County, State Esmeralda, Nevada Contractor Willbros

Rig No. 10

Present Depth 375' Drilled 316' to 375' Footage cut last 24 hours 59'

Mud / Air _____ Temperature in 61 °F. Out 87 °F. Mud Cooler On/Off _____ Mud Loss last 24 hrs _____

Mud Weight 9.0 Vis. 39 Waterloss 8 cc. PH 11.0 Mud Cost last 24 hrs _____

Hole Size 17½ " Deviation Surveys _____

Bit # _____

Stabilizers, Reamers same as Report #5

Shocksups and other _____

Lithology 100% Crystal Cut; very hard and abrasive

Gases _____

Loss Circulation - Other _____

Mudlogger Wayne Monger Engineer/ Drilling Foreman Ray Mara Geologist John Deymonaz

ADDITIONAL REPORT 15½ hrs. drilling; 3½ hrs. rotary output; 2½ hrs. trip for bit; 2½ hrs. reaming 60' to bottom

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	_____ to _____	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	_____ to _____	Forward _____
Intermediate	_____	_____	_____ to _____	Daily Cost _____
Liner	_____	_____	_____ to _____	TOTAL TO DATE _____
Liner	_____	_____	_____ to _____	
Other	_____	_____	_____ to _____	

Cement Report _____

DAILY DRILLING REPORT

Report No. 7

Well No. 88-11A

Date: 11/16/84

Location SE of SE SEC 11 T 1S R 35E

Spud Date 11/10/84

County, State Esmeralda, NV Contractor Willbros

Rig No. 10

Present Depth 668' Drilled 375' to 668' Footage cut last 24 hours 293'

Mud / Air _____ Temperature in _____ °E. Out _____ °E. Mud Cooler On/Off _____ Mud Loss last 24 hrs _____

Mud Weight 9.3 Vis. 43 Waterloss 5.0 cc PH 11.0 Mud Cost last 24 hrs \$1480.

Hole Size 17 1/2 " Deviation Surveys 420' 3°N60E Mud Cost last 24 hrs Total: 10,899.

Bit # 3, M44N S#942659 2-22 jets and 1-18

Stabilizers, Reamers Rerun 302819, 3. reamer crossover 9 1/2" monel, blade stablizer, shocksub, crossover, blade stablizer,

3-10" drill collars and crossover to 8-8" drill collars, crossover to drill pipe.

Shocksubs and other _____

Lithology _____

Gases _____

Loss Circulation - Other _____

Mudlogger Monger Engineer/ Drilling Foreman Mara Geologist Deymonaz

ADDITIONAL REPORT 4.5 hours drilling with bit #1, rerun from 375-435', 4 1/2 hrs tripped for new bit and 15 hrs drilling.

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u> to <u>17'</u>	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>288'</u>	Forward _____
Intermediate	<u>17 1/2"</u>	_____	_____ to _____	Daily Cost _____
Liner	_____	_____	_____ to _____	TOTAL TO DATE _____
Liner	_____	_____	_____ to _____	
Other	_____	_____	_____ to _____	

Cement Report _____

DAILY DRILLING REPORT

Report No. 8

Well No. 88-11A

Date: 11/17/84

Location SE of SE SEC T1 T TS R 35E

Spud Date 11/10/84

County, State Esmeralda, NV Contractor Willbros Rig No. 10

Present Depth 919 Drilled 668' to 919' Footage cut last 24 hours 251'

Mud / Air _____ Temperature in 73 °F. Out 120 °F. Mud Cooler On/Off _____ Mud Loss last 24 hrs 150 barrels

Mud Weight 9.2 Vis. 42 Waterloss 5.0 cc PH 11.0 Mud Cost last 24 hrs \$1795.

Hole Size 17 1/2 " Deviation Surveys 622' - 1/2°N17W 800' - 3/4°N13W, 908' - 3/4° Total: 12,694.

Bit # 3 Sec. M44N with 2-22 jets, 1-18 jet; 435-919' 33 1/2 hrs.

Stabilizers, Reamers same as 11/16/84

Shocksups and other _____

Lithology 668-750' 100% lithic crystal tuff, 750-919' 100% volc. siltstone

Gases _____

Loss Circulation - Other LC @ 906', mixed LCM pill, drilled ahead, 50% loss of circulation, drill ahead, lost 150 barrels

Mudlogger Monger of mud and recovered 100% loss circ. Engineer/ Drilling Foreman Mara Geologist Deymonaz

ADDITIONAL REPORT 1/2 hr survey, 20 1/2 hrs drilling, 1/2 hr survey, 1 hr circulation & survey, 3 1/2 hrs tripped for new bit #5

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	<u>36"</u>	<u>30'</u>	<u>0</u> to <u>17'</u>	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>288'</u>	Forward _____
Intermediate	<u>17 1/2"</u>	_____	_____ to _____	Daily Cost _____
Liner	_____	_____	_____ to _____	TOTAL TO DATE _____
Liner	_____	_____	_____ to _____	
Other	_____	_____	_____ to _____	

Cement Report _____

DAILY DRILLING REPORT

Report No. 9

Well No. 88-11A

Date: 11/18/84

Location SE of SE SEC 11 T 1S R 35E

Spud Date 11/10/84

County, State Esmeralda, NV Contractor Willbros

Rig No. 10

Present Depth 1085 Drilled 919 to 1085 Footage cut last 24 hours 166

Mud / Air _____ Temperature in 71 °E. Out 117 °E. Mud Cooler On/Off _____ Mud Loss last 24 hrs _____

Mud Weight 9.2 Vis. 43 Waterloss 6.0 cc. PH 11. Mud Cost last 24 hrs \$691.00

Hole Size 17 1/2 " Deviation Surveys _____ TTL: 13,385.

Bit # out of hole

Stabilizers, Reamers _____

Shocksups and other _____

Lithology _____

Gases _____

Loss Circulation - Other _____

Mudlogger _____ Engineer/ Drilling Foreman _____ Geologist _____

ADDITIONAL REPORT 1 1/2 hrs finish trip for bit, 10 hrs drilling, 1/2 survey, 1/2 circulation, 1 hr short trip, 1/2 hr circ, 3 hrs trip and lay down 10" drill collars and bottom hole assembly, 1/2 hr rig up to run 13 3/8" casing, 3 hrs run 27 joints of 91#'s of 13 3/8" casing, set shoe @ 10,055, 1/2 hr circ, 3 hrs cementing. Finish cementing @ 6a. Good cement returns.

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u> to <u>17'</u>	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>228'</u>	Forward _____
Intermediate	<u>17 1/2"</u>	_____	_____ to _____	Daily Cost _____
Liner	_____	_____	_____ to _____	TOTAL TO DATE _____
Liner	_____	_____	_____ to _____	
Other	_____	_____	_____ to _____	

Cement Report _____

DAILY DRILLING REPORT

Report No. 10

Well No. 88-11A

Date: 11/19/84

Location SE of SE SEC 11 T 1S R 35E

Spud Date 11/10/84

County, State Esmeralda, NV Contractor Willbros

Rig No. 10

Present Depth 1085 Drilled 1085 to 1085 Footage cut last 24 hours 0'

Mud / Air mud Temperature in °E Out °E Mud Cooler On/Off _____ Mud Loss last 24 hrs. _____

Mud Weight _____ Vis. _____ Waterloss _____ cc PH _____ Mud Cost last 24 hrs _____

TOTAL: 13,385.

Hole Size _____ " Deviation Surveys _____

Bit # _____

Stabilizers, Reamers _____

Shocksups and other _____

Lithology _____

Gases _____

Loss Circulation - Other _____

Mudlogger _____ Engineer/ Drilling Foreman _____ Geologist _____

ADDITIONAL REPORT 12 hrs WOC, 12 hrs nipple up 13 3/8" BOPE

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	<u>36"</u> <u>26"</u>	<u>30"</u> <u>20"</u>	<u>0</u> to <u>17'</u> <u>0</u> to <u>288'</u>	Budgeted _____ Forward _____
Surface				Daily Cost _____
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u> to <u>1055'</u>	TOTAL TO DATE <u>\$388,331.</u>
Liner				
Liner				
Other				

Cement Report Howco cemented as follows: 20 bbls water ahead, 525 sacks of class H cement, 40% silica flour, .05% CFR, 3% gel, tailed in with 200 sacks of class H cement with 40% silica flour. Cement in place @ 6a.

DAILY DRILLING REPORT

Report No. 11

Well No. 88-11A

Date: 11/20/84

Location SE of SE SEC 11 T 1S R 35E

Spud Date 11/10/84

County, State Esmeralda, NV Contractor Willbros

Rig No. 10

Present Depth 1085 Drilled 1085 to 1085 Footage cut last 24 hours 0'

Mud / Air _____ Temperature in _____ °E. Out _____ °E. Mud Cooler On/Off _____ Mud Loss last 24 hrs. _____

Mud Weight 9.2 Vis. 45 Waterloss 7. cc. PH 11.5 Mud Cost last 24 hrs. ---

TOTAL: 13,385.

Hole Size _____ " Deviation Surveys _____

Bit # _____

Stabilizers, Reamers _____

Shocksups and other _____

Lithology _____

Gases _____

Loss Circulation - Other _____

Mudlogger Monger Engineer/ Drilling Foreman Mara Geologist Deymonaz

ADDITIONAL REPORT 24 hrs. nipple up BOPE stack, wellled and nipple up flow line, test the stack with 1,000 psi - ok.

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u> to <u>17'</u>	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>288'</u>	Forward _____
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u> to <u>1055</u>	Daily Cost <u>\$13,670.</u>
Liner	_____	_____	_____ to _____	TOTAL TO DATE <u>\$389,010.</u>
Liner	_____	_____	_____ to _____	
Other	_____	_____	_____ to _____	

Cement Report _____

DAILY DRILLING REPORT

Report No. 12

Well No. 88-11A

Date: 11/21/84

Location SE of SE SEC 11 T 1S R 35E

Spud Date 11/10/84

County, State Esmeralda, NV Contractor Willbros

Rig No. 10

Present Depth 1290 Drilled 1085 to 1290 Footage cut last 24 hours 205

Mud / Air mud Temperature in 63 °F. Out 132 °F. Mud Cooler On/Off _____ Mud Loss last 24 hrs _____

Mud Weight 9.0 Vis. 47 Waterloss 10 cc. PH 11 Mud Cost last 24 hrs: \$1495; 14,880 TTL

Hole Size 12 1/4 " Deviation Surveys 1109: S40W; 1258: S65W

Bit # 6 Hughes Tri Cone J22, #FF6531; 1-#14 jet, 2-#13 jets 1085'

Stabilizers, Reamers 3 reamer #201667 drilco; 1-8" Mone1 drl collar #EWC0316, 1 stabilizer RWP #610846, shocksub #31717, blade stabilizer #80135, 2-8" drl collars; 1 - blade stabilizer #80113, 8-8" drl collars crossover

Shocksubs and other to drl pipe.

Lithology 1085-1290: 100% volc sandst with occasional pieces of lithic limestone

Gases _____

Loss Circulation - Other _____

Mudlogger Monger Engineer/ Drilling Foreman Mara Geologist Deymonaz

ADDITIONAL REPORT 1 hr nipple up & test flab gate & blind rams to 1000 #'s, 5 hrs pick up & make up bottom hole assembly & RIH, 1 hr test pipe rams & h-drill to 1000 #'s, test OK, 7 1/2 hrs drl cement float collar & shoe950-1055', 1 1/2 hrs drlq formation, 1/2 hr survey @ 1109', 5 hrs drlq, 1/2 hr survey @ 1258', 2 1/2 hrs drlq.

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u> to <u>17'</u>	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>288'</u>	Forward <u>30,947</u>
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u> to <u>1055</u>	Daily Cost <u>10,325</u>
Liner	<u>12 1/4</u>	_____	_____ to _____	TOTAL TO DATE <u>419,957</u>
Liner	_____	_____	_____ to _____	
Other	_____	_____	_____ to _____	

Cement Report _____

DAILY DRILLING REPORT

Report No. 13
Date: 11/22/84

Well No. 88-11A

Location SE of SE SEC 11 T 1S R 35E Spud Date 11/10/84

County, State Esmeralda, NV Contractor Willbros Rig No. 10

Present Depth 1504 Drilled 1290 to 1504 Footage cut last 24 hours 214

Mud / Air mud Temperature in 70 °E. Out 138 °E. Mud Cooler On/Off _____ Mud Loss last 24 hrs _____

Mud Weight 9.1 Vis. 45 Waterloss 6 cc PH 11 Mud Cost last 24 hrs: \$2,140; 17,020 TTL

Hole Size 12 1/4 " Deviation Surveys 1334: 1/2°S29W; 1427: 1°W; 1478: 1°S36W

Bit # same as 11/21/84

Stabilizers, Reamers _____

Shocksups and other _____

Lithology 1310-1400: 20-100% dolomite; 0-80% volc sandst-siltst; 1400-1504: 100% volc sandst-siltst

Gases _____

Loss Circulation - Other _____

Mudlogger Monger Engineer/ Drilling Foreman Mara Geologist Deymonaz

ADDITIONAL REPORT 2 hrs drlg, 1/2 hr survey, 4 hrs drlg, 1 hr survey, 3 hrs drl, 2 1/2 hrs survey, 11 hrs circulate & wait on scientific gyro multi shot

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u> to <u>17'</u>	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>288'</u>	Forward _____
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u> to <u>1055</u>	Daily Cost _____
Liner	<u>12 1/4</u>	_____	_____ to _____	TOTAL TO DATE <u>\$460,415</u>
Liner	_____	_____	_____ to _____	
Other	_____	_____	_____ to _____	

Cement Report _____

DAILY DRILLING REPORT

Report No. 14

Well No. 88-11A

Date: 11/23/84

Location SE of SE SEC 11 T 1S R 35E

Spud Date 11/10/84

County, State Esmeralda, NV Contractor Willbros

Rig No. 10

Present Depth 1658 Drilled 1504 to 1658 Footage cut last 24 hours 154

Mud / Air mud Temperature in 68 °F. Out 134 °F. Mud Cooler On/Off _____ Mud Loss last 24 hrs _____

Mud Weight 9.1 Vis. 43 Waterloss 10 cc. PH 10.5 Mud Cost last 24 hrs \$646; 17,666 TTL

Hole Size 12 1/4 " Deviation Surveys 1566: 2 1/4° N65E; 1599: N71E

Bit # 7 GS88, #188523; turbo drl 2" kicksub, 8" Monel, 6-8" collars crossover to drl pipe

Stabilizers, Reamers _____

Shocksups and other _____

Lithology 1504-1658- 70-100% volc sandst-siltst; 0-30% xl lithic tuff

Gases _____

Loss Circulation - Other _____

Mudlogger Monger Engineer/ Drilling Foreman Mara Geologist Deymonaz

ADDITIONAL REPORT 4 hrs short trip & circulate, 1 1/2 hrs make up scientific equipment & run gyro multishot, 4 1/2 hrs trip lay down bottom hole assembly and pick up turbo assembly, 1 1/2 hrs survey to orient tools, 1 hr survey & drl, 3 hrs orient assembly, 4 hrs drl, 2 hrs survey & drl, 4 hrs pump repair, 2 1/2 hrs survey

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u> to <u>17'</u>	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>288'</u>	Forward _____
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u> to <u>1055</u>	Daily Cost _____
Liner	<u>12 1/4</u>	_____	_____ to _____	TOTAL TO DATE <u>\$471,750</u>
Liner	_____	_____	_____ to _____	
Other	_____	_____	_____ to _____	

Cement Report _____

DAILY DRILLING REPORT

Report No. 15

Well No. 88-11A

Date: 11/24/84

Location SE of SE SEC 11 T 1S R 35E

Spud Date 11/10/84

County, State Esmeralda, NV Contractor Willbros

Rig No. 10

Present Depth 1926 Drilled 1658 to 1926 Footage cut last 24 hours 267

Mud / Air mud Temperature in 68 °F. Out 128 °F. Mud Cooler On/Off _____ Mud Loss last 24 hrs _____

Mud Weight 9.2 Vis. 42 Waterloss 10 cc PH 10 Mud Cost last 24 hrs \$410; 18,076 TTL

Hole Size 12 1/4 " Deviation Surveys 1694: 7 1/2°N70E; 1786: 7 3/4°N65E; 1878: 8 1/4°N65E

Bit # rerun

Stabilizers, Reamers rerun bit, 3. reamer, Mone1 shocksub, 1 dr1 collar, stilizer, 12 dr1 c1rs crossover to dr1 pipe

Shocksups and other _____

Lithology 1658-1830: 80-100% vol sandst-siltst; 0-20% lithic tuff; 1830-1926: 95-100% lithic/x1 tuff; 0-5% volc sandst

Gases _____

Loss Circulation - Other _____

Mudlogger Monger Engineer/ Drilling Foreman Mara Geologist Deymonaz

ADDITIONAL REPORT 2 hrs survey, 4 trip, 2 hrs reaming; 16 hrs dr1.

Well History	Hole Size	Casing Size	Interval		EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u>	to <u>17'</u>	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u>	to <u>288'</u>	Forward _____
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u>	to <u>1055</u>	Daily Cost _____
Liner	<u>12 1/4</u>	_____	_____	to _____	TOTAL TO DATE _____
Liner	_____	_____	_____	to _____	
Other	_____	_____	_____	to _____	

Cement Report _____

DAILY DRILLING REPORT

Report No. 16

Well No. 88-11A

Date: 11/25/84

Location SE of SE SEC 11 T 1S R 35E

Spud Date 11/10/84

County, State Esmeralda, NV Contractor Willbros

Rig No. 10

Present Depth 2143 Drilled 1926 to 2143 Footage cut last 24 hours 217

Mud / Air mud Temperature in 59 °E. Out 122 °E. Mud Cooler On/Off _____ Mud Loss last 24 hrs _____

Mud Weight 9.2 Vis. 41 Waterloss 6 cc PH 10.5 Mud Cost last 24 hrs \$2,012.;\$20,718 TTL

Hole Size 12 1/4" Deviation Surveys 2008: 9°N58E; 2039-81/2°N51E; 2070-8 3/4°N43E

Bit # _____

Stabilizers, Reamers Rerun bit, 3. reamer Monel, 2 drl collars, stabilizer, 1 drl collar, stabilizer, 11-8" drl collar crossover to drl pipe.

Shocksups and other _____

Lithology 1926-2020: 60-100% lithic xl tuff; 0-40% vol sandst-siltst; 2020-2143: 80-100% volc ss-ss; 0-20% lithic tuff

Gases _____

Loss Circulation - Other _____

Mudlogger Monger Engineer/ Drilling Foreman Mara Geologist Deymonaz

ADDITIONAL REPORT 3 1/2 hrs drlg, 1 hr survey, 5 hrs trip pick up turbo drl, 3 hrs drlg with turbo, 5 1/2 hrs pick up angle bldg bottom hole assembly, 1 hr wash and ream bottom, 2 1/2 hrs drlg.

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u> to <u>17'</u>	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>288'</u>	Forward _____
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u> to <u>1055</u>	Daily Cost _____
Liner	<u>12 1/4"</u>	_____	_____ to _____	TOTAL TO DATE <u>\$487,085</u>
Liner	_____	_____	_____ to _____	
Other	_____	_____	_____ to _____	

Cement Report _____

DAILY DRILLING REPORT

Report No. 17

Well No. 88-11A

Date: 11/26/84

Location SE of SE SEC 11 T 1S R 35E

Spud Date 11/10/84

County, State Esmeralda, NV Contractor Willbros

Rig No. 10

Present Depth 2427 Drilled 2143 to 2427 Footage cut last 24 hours 284

Mud / Air mud Temperature in 109 °E. Out 142 °E. Mud Cooler On/Off Off Mud Loss last 24 hrs _____

Mud Weight 9.2 Vis. 40 Waterloss 8 cc. PH 10 Mud Cost last 24 hrs \$456; TTL:21,183

Hole Size 12 1/4 " Deviation Surveys 2145: 10 1/4°N40E; 2240: 12°N40E; 2330: 13°N39E; 2393: 13 3/4°N37E

Bit # 11, Hughes Tri-Cone, 12 1/4", J22 #904FM

Stabilizers, Reamers 3. reamer #202264, short drill collar #8009, blade stablizer #80033

Bottom Hole Assembly: RWP, #201667 bit, 3. reamer, short collar, stabilizer Monel, RWP, shocksub, stablizer, 2 drill collars,

Shocksubs and other stabilizer, 12 dri collars crossover to dri pipe

Lithology 2143-2427: 100% volc. sandst-siltst.

Gases _____

Loss Circulation - Other _____

Mudlogger Monger Engineer/ Drilling Foreman Mara Geologist Deymonaz

ADDITIONAL REPORT 1 hr drlg, 1/2 hr survey, 4 1/2 hrs drlg, 1/2 hr survey, 5 hrs drlg, 1/2 hr survey, 3 hrs drlg, 1 hr survey, 7 hrs trip to change bottom hole assembly, 1 hr drlg.

Well History	Hole Size	Casing Size	Interval		EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u>	to <u>17'</u>	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u>	to <u>288'</u>	Forward _____
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u>	to <u>1055</u>	Daily Cost <u>\$27,950</u>
Liner	<u>12 1/4"</u>	_____	_____	to _____	TOTAL TO DATE <u>\$515,035</u>
Liner	_____	_____	_____	to _____	
Other	_____	_____	_____	to _____	

Cement Report _____

DAILY DRILLING REPORT

Report No. 18

Well No. 88-11A

Date: 11/27/84

Location SE of SE SEC 11 T 1S R 35E Spud Date 11/10/84

County, State Esmeralda, NV Contractor Steam Reserve Corporation Rig No. Willbros #10

Present Depth 2858 Drilled 2427 to 2858 Footage cut last 24 hours 431

Mud / Air mud Temperature in 135 °F. Out 152 °F. Mud Cooler On/Off _____ Mud Loss last 24 hrs _____

Mud Weight 9.4 Vis. 38 Waterloss 8 cc PH 10 Mud Cost last 24 hrs \$850; TTL: 22,033

Hole Size 12 1/4 " Deviation Surveys 2507: 13 3/4°N35E; 2629: 14°N36E; 2750: 14°N36E

Bit # same as 11/26

Stabilizers, Reamers same as 11/26

Shocksups and other _____

Lithology 2427-2858: 80-100% volc sandst-siltst

Gases _____

Loss Circulation - Other _____

Mudlogger Monger Engineer/ Drilling Foreman Mara Geologist Deymonaz

ADDITIONAL REPORT 5 1/2 hrs drlg; 1 hr survey; 6 hrs drlg; 1/2 hr survey; 5 hrs drlg; 1 hr survey; 5 hrs drlg

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u> to <u>17'</u>	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>288'</u>	Forward _____
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u> to <u>1055</u>	Daily Cost <u>\$11,463</u>
Liner	<u>12 1/4</u>	_____	_____ to _____	TOTAL TO DATE <u>\$526,966</u>
Liner	_____	_____	_____ to _____	
Other	_____	_____	_____ to _____	
Cement Report	_____			

DAILY DRILLING REPORT

Well No. 88-11A

Report No. 19

Date: 11/29/84

Location SE of SE SEC 11 T 1S R 35E

Spud Date 11/10/84

County, State Esmeralda, NV Contractor Steam Reserve Corporation

Rig No. Willbros #10

Present Depth 3152 Drilled 2858 to 3152 Footage cut last 24 hours 294

Mud / Air _____ Temperature in 130 °E. Out 148 °E. Mud Cooler On/Off on Mud Loss last 24 hrs _____

Mud Weight 9.6 Vis. 45 Waterloss 6.0 cc. PH 9.5 Mud Cost last 24 hrs \$1,542.; TTL:23,575

Hole Size 12 1/4 " Deviation Surveys _____

Bit # Same as 11/27/84

Stabilizers, Reamers " "

Shocksups and other " "

Lithology 2858-2870: 100% vol. sandst.; 2870-2970: 30-100% lithic tuff; 0-70% vol ss-ss; 2970-3152: 100% vol ss-ss

Gases _____

Loss Circulation - Other _____

Mudlogger Monger Engineer/ Drilling Foreman Mara Geologist Deymonaz

ADDITIONAL REPORT 3 1/2 hrs drlg; 1 hr survey, 9 1/2 hrs drlg, 1/2 hr survey, 9 1/2 hrs drlg

Cooler on @ 2970' 3 p.m. 11/28/84

Well History	Hole Size	Casing Size	Interval		EXPENDITURES	
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u>	to	<u>17'</u>	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u>	to	<u>288'</u>	Forward _____
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u>	to	<u>1055</u>	Daily Cost <u>\$12,104</u>
Liner	<u>12 1/4</u>	_____	_____	to	_____	TOTAL TO DATE <u>\$539,070</u>
Liner	_____	_____	_____	to	_____	
Other	_____	_____	_____	to	_____	
Cement Report	_____					

DAILY DRILLING REPORT

Report No. 20
 Date: 11/29/84

Well No. 88-11A

Location SE of SE SEC 11 T 1S R 35E Spud Date 11/10/84

County, State Esmeralda, NV Contractor Steam Reserve Corporation Rig No. Willbros #10

Present Depth 3491 Drilled 3152 to 3491 Footage cut last 24 hours 339'

Mud / Air Temperature in 135 °F. Out 156 °F. Mud Cooler On/Off on Mud Loss last 24 hrs. _____

Mud Weight 9.6 Vis. 43 Waterloss 6.0 cc. PH 10.5 Mud Cost last 24 hrs. \$269.; TTL:23,844

Hole Size. 12 1/4 " Deviation Surveys 3127: 14 1/4° N35E; 3250: 13 3/4° N37E; 3366: 14° N37E

Bit # same as 11/28

Stabilizers, Reamers _____

Shocksups and other _____

Lithology 3110-3344: 100% x1 tuff; 3340-3491: 100% silica volcanics

Gases _____

Loss Circulation - Other _____

Mudlogger Monger Engineer/ Drilling Foreman Mara Geologist Deymonaz

ADDITIONAL REPORT 1 1/2 hrs survey; 7 1/2 hrs drlg; 1/2 hr survey; 6 1/2 hrs drlg; 1/2 hr survey; 7 hrs drlg

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u> to <u>17'</u>	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>288'</u>	Forward _____
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u> to <u>1055</u>	Daily Cost <u>\$11,257</u>
Liner	<u>12 1/4</u>	_____	_____ to _____	TOTAL TO DATE <u>\$567,575</u>
Liner	_____	_____	_____ to _____	
Other	_____	_____	_____ to _____	
Cement Report	_____			

DAILY DRILLING REPORT

Report No. 21

Well No. 88-11A

Date: 11/30/84

Location SE of SE SEC 11 T 1S R 35E

Spud Date 11/10/84

County, State Esmeralda, NV Contractor Steam Reserve Corporation

Rig No. Willbros #10

Present Depth 3762 Drilled 3491 to 3762 Footage cut last 24 hours 271'

Mud Air Temperature in 124 °F Out 153 °F Mud Cooler On/Off Mud Loss last 24 hrs _____

Mud Weight 9.6 Vis. 40 Waterloss 7.0 cc PH 10.5 Mud Cost last 24 hrs \$1,362. ; TTC: 25,206

Hole Size 12 1/4 " Deviation Surveys 3495: 13 3/4° N37E; 3619: 14° N36E

Bit # same as 11/29

Stabilizers, Reamers "

Shocksups and other _____

Lithology 3491-3762: acidic silicic volcanic flow, probably rhyolite

Gases _____

Loss Circulation - Other _____

Mudlogger Monger Engineer/ Drilling Foreman Mara Geologist Deymonaz

ADDITIONAL REPORT 1 1/2 hrs drlg, 1 hr survey, 7 hrs drlg, 1 hr survey, 4 hrs drlg, 5 1/2 hrs trip, 4 hrs drlg

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u> to <u>17'</u>	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>288'</u>	Forward _____
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u> to <u>1055</u>	Daily Cost <u>21,003</u>
Liner	<u>12 1/4</u>	_____	_____ to _____	TOTAL TO DATE <u>595,690</u>
Liner	_____	_____	_____ to _____	
Other	_____	_____	_____ to _____	
Cement Report	_____	_____	_____ to _____	

DAILY DRILLING REPORT

Report No. 22

Well No. 88-11A

Date: 12/01/84

Location SE of SE SEC 11 T 1S R 35E Spud Date 11/10/84

County, State Esmeralda, NV Contractor Steam Reserve Corporation Rig No. Willbros #10

Present Depth 4056 Drilled 3762 to 4056 Footage cut last 24 hours 294

Mud Air _____ Temperature in 117 °E. Out 142 °E. Mud Cooler On/Off _____ Mud Loss last 24 hrs. _____

Mud Weight 9.6 Vis. 39 Waterloss 6.6 cc PH 10.5 Mud Cost last 24 hrs: \$382; TTI: \$25,588

Hole Size 12 1/4 " Deviation Surveys 3742: 14°N35E; 3867: 13°N34E; 3991: 13 3/4°N34E

Bit # 12 1/4 Smith F3L #EE7838

Stabilizers, Reamers same as rpt #20

Shocksups and other _____

Lithology 3762-4056: 100% acidic volcanic, probably rhyolite flow

Gases _____

Loss Circulation - Other _____

Mudlogger Monger Engineer/ Drilling Foreman Mara Geologist Deymonaz

ADDITIONAL REPORT 1/2 hr drlg, 1/2 hr survey, 10 1/2 hrs drlg, 1/2 hr survey, 8 1/2 hrs drlg, 1/2 hr survey, 3 hrs drlg

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u> to <u>17'</u>	Budgeted <u>1,927,800</u>
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>288'</u>	Forward _____
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u> to <u>1055</u>	Daily Cost <u>11,337</u>
Liner	<u>12 1/4</u>	_____	_____ to _____	TOTAL TO DATE <u>607,027</u>
Liner	_____	_____	_____ to _____	
Other	_____	_____	_____ to _____	

Cement Report _____

DAILY DRILLING REPORT

Report No. 23

Well No. 88-11A

Date: 12/02/84

Location SE of SE SEC 11 T 1S R 35E Spud Date 11/10/84

County, State Esmeralda, NV Contractor Steam Reserve Corporation Rig No. Willbros #10

Present Depth 4329 Drilled 4056 to 4329 Footage cut last 24 hours 273

Mud / Air Temperature in 113 °E. Out 140 °E. Mud Cooler On/Off Mud Loss last 24 hrs

Mud Weight 9.7 Vis. 39 Waterloss 6.8 cc PH 10.5 Mud Cost last 24 hrs: \$1,376;\$26,964 TTL

Hole Size 12 1/4 " Deviation Surveys 4113: 13 3/4⁰N35E 4237: 13 3/4⁰N31E

Bit # same as 12/1

Stabilizers, Reamers "

Shocksups and other "

Lithology 4056-4329: 100% harkless formation (began @3500'), 40-80% siltst; 20-60% sandst.

Gases

Loss Circulation - Other

Mudlogger Monger Engineer/ Drilling Foreman Mara Geologist Deymonaz

ADDITIONAL REPORT 7 hrs drlg, 1/2 hr survey, 10 1/2 hrs drlg, 1 hr survey, 5 hrs drlg

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u> to <u>17'</u>	Budgeted <u>1,927,800</u>
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>288'</u>	Forward <u>670,027</u>
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u> to <u>1055</u>	Daily Cost <u>12,082</u>
Liner	<u>12 1/4</u>	<u> </u>	<u> </u> to <u> </u>	TOTAL TO DATE <u>619,109</u>
Liner	<u> </u>	<u> </u>	<u> </u> to <u> </u>	
Other	<u> </u>	<u> </u>	<u> </u> to <u> </u>	

Cement Report

DAILY DRILLING REPORT

Report No. 25

Well No. 88-11A

Date: 12/04/84

Location SE of SE SEC 11 T 1S R 35E Spud Date 11/10/84

County, State Esmeralda, NV Contractor Steam Reserve Corporation Rig No. Willbros #10

Present Depth 4572 Drilled 4558 to 4572 Footage cut last 24 hours 14'

Mud / Air mud Temperature in 131 °F. Out 158 °F. Mud Cooler On/Off _____ Mud Loss last 24 hrs _____

Mud Weight 9.7 Vis. 39 Waterloss 6.6 cc PH 10.5 Mud Cost last 24 hrs \$1,014;29,212 TTL

Hole Size 12 1/4 " Deviation Surveys 4547: 15 1/4°N35E

Bit # 13, Security M89TF SS#161257

Stabilizers, Reamers new 3. reamer (#200843), new bit, short drill collar, stabilizer, 8" Monel, RWP stabilizer, shocksub, stabilizer, drill collar, stabilizer, 12 drill collars, crossover drill pipe

Shocksups and other _____

Lithology 4558-4571: 100% ss-ss of Harkless formation

Gases _____

Loss Circulation - Other _____

Mudlogger Monger Engineer/ Drilling Foreman Mara Geologist Deymonaz

ADDITIONAL REPORT 3 1/2 hrs drlg, 1/2 hr survey, 1 hr circulate, 1/2 hr survey, POH, temp survey 7 hrs, 2 1/2 RIH, 4 1/2 hrs ream (4480-4552)

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u> to <u>17'</u>	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>288'</u>	Forward _____
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u> to <u>1055</u>	Daily Cost <u>26,515</u>
Liner	_____	_____	_____ to _____	TOTAL TO DATE <u>685,693</u>
Liner	_____	_____	_____ to _____	
Other	_____	_____	_____ to _____	

Cement Report _____

DAILY DRILLING REPORT

Report No. 26

Well No. 88-11A

Date: 12/05/84

Location SE of SE SEC 11 T 15 R 35E Spud Date 11/10/84

County, State Esmeralda, NV Contractor Steam Reserve Corporation Rig No. Willbros #10

Present Depth 4663 Drilled 4572 to 4663 Footage cut last 24 hours 91'

Mud / Air mud Temperature in 122 °F. Out 151 °F. Mud Cooler On/Off _____ Mud Loss last 24 hrs _____

Mud Weight 9.6 Vis. 42 Waterloss 6.6 cc PH 11.0 Mud Cost last 24 hrs \$615; 29,827 TTL

Hole Size 12 1/4" Deviation Surveys 4630: 15 1/4°N32E

Bit # same as before

Stabilizers, Reamers _____

Shocksups and other #31715 Drilco

Lithology 4571-4663: 100% ss-ss

Gases _____

Loss Circulation Other

Mudlogger Barret Boucher Engineer/ Drilling Foreman Mara Geologist Deymonaz

ADDITIONAL REPORT 2 hrs reaming, no go, 3 hrs POH, change shocksup, 3 hrs RIH, 1 1/2 hrs reaming 60' to bottom,

11 1/2 hrs drilling, 1 hr survey, 1 1/2 hrs repair stand pipe, 1/2 hr drlg.

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u> to <u>17'</u>	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>288'</u>	Forward _____
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u> to <u>1055</u>	Daily Cost <u>14,092</u>
Liner	_____	_____	_____ to _____	TOTAL TO DATE <u>699,785</u>
Liner	_____	_____	_____ to _____	
Other	_____	_____	_____ to _____	
Cement Report	_____	_____	_____ to _____	

DAILY DRILLING REPORT

Report No. 27

Well No. 88-11A

Date: 12/06/84

Location SE of SE SEC 11 T 1S R 35E Spud Date 11/10/84

County, State Esmeralda, NV Contractor Steam Reserve Corporation Rig No. Willbros #10

Present Depth 4805 Drilled 4663 to 4805 Footage cut last 24 hours 142'

Mud / Air _____ Temperature in 119 °F Out 138 °F Mud Cooler On/Off _____ Mud Loss last 24 hrs _____

Mud Weight 9.5 Vis. 38 Waterloss 7.2 cc PH 10.5 Mud Cost last 24 hrs \$994; 30,821 TTL

Hole Size 12 1/4" Deviation Surveys 4753: 15°N31E

Bit # same

Stabilizers, Reamers same

Shocksups and other "

Lithology 4663-4805: 100% ss-ss

Gases _____

Loss Circulation - Other _____

Mudlogger Monger Engineer/ Drilling Foreman Mara Geologist Deymonaz

ADDITIONAL REPORT 21 hrs drlg, 1/2 hr surve, 2 1/2 hrs drlg

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u> to <u>17'</u>	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>288'</u>	Forward <u>699,785</u>
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u> to <u>1055</u>	Daily Cost <u>12,598</u>
Liner	<u>12 1/4"</u>	_____	_____ to _____	TOTAL TO DATE <u>712,383</u>
Liner	_____	_____	_____ to _____	
Other	_____	_____	_____ to _____	

Cement Report _____

DAILY DRILLING REPORT

Report No. 28

Well No. 88-11A

Date: 12/07/84

Location SE of SE SEC 11 T 1S R 35E

Spud Date 11/10/84

County, State Esmeralda, NV Contractor Steam Reserve Corporation

Rig No. Willbros #10

Present Depth 4948 Drilled 4805 to 4948 Footage cut last 24 hours 143'

Mud / Air mud Temperature in 126 °F. Out 147 °F. Mud Cooler On/Off on Mud Loss last 24 hrs. _____

Mud Weight 9.3 Vis. 40 Waterloss 8.3 cc. PH 10.5 Mud Cost last 24 hrs: \$2,481;33,302TOTAL

Hole Size 12 1/4" Deviation Surveys 4888: 15°N30E

Bit # same

Stabilizers, Reamers "

Shocksups and other "

Lithology 4805-4948: 100% ss-ss

Gases _____

Loss Circulation - Other _____

Mudlogger Monger Engineer/ Drilling Foreman Mara Geologist Deymonaz

ADDITIONAL REPORT 17 1/2 hrs drlg, 1/2 hr survey, 6 hrs drlg

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u> to <u>17'</u>	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>288'</u>	Forward <u>712,383</u>
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u> to <u>1055</u>	Daily Cost <u>12,296</u>
Liner	_____	_____	_____ to _____	TOTAL TO DATE <u>724,679</u>
Liner	_____	_____	_____ to _____	
Other	_____	_____	_____ to _____	
Cement Report	_____	_____	_____	

DAILY DRILLING REPORT

Report No. 29

Well No. 88-11A

Date: 12/08/84

Location SE of SE SEC 11 T 1S R 35E Spud Date 11/10/84

County, State Esmeralda, NV Contractor Steam Reserve Corporation Rig No. Willbros #10

Present Depth 5140 Drilled 4948 to 5140 Footage cut last 24 hours 192'

Mud / Air _____ Temperature in 134 °E. Out 153 °E. Mud Cooler On/Off on Mud Loss last 24 hrs _____

Mud Weight 9.4 Vis. 41 Waterloss 82 cc PH 10.5 Mud Cost last 24 hrs \$894;34,196 TTL

Hole Size 12 1/4" Deviation Surveys 5013: 15 1/2°N32E

Bit # same

Stabilizers, Reamers _____

Shocksups and other _____

Lithology 4948-5140: 100% sandst.

Gases _____

Loss Circulation - Other _____

Mudlogger Monger Engineer/ Drilling Foreman Mara Geologist Deymonaz

ADDITIONAL REPORT 16 1/2 hrs drlg, 1/2 hr survey, 7 hrs drlg

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u> to <u>17'</u>	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>288'</u>	Forward <u>724,679</u>
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u> to <u>1055</u>	Daily Cost <u>11,852</u>
Liner	_____	_____	_____ to _____	TOTAL TO DATE <u>736,531</u>
Liner	_____	_____	_____ to _____	
Other	_____	_____	_____ to _____	
Cement Report	_____	_____	_____	_____

DAILY DRILLING REPORT

Report No. 30

Well No. 88-11A

Date: 12/09/84

Location SE of SE SEC 11 T 1S R 35E

Spud Date 11/10/84

County, State Esmeralda, NV Contractor Steam Reserve Corporation

Rig No. Willbros #10

Present Depth 5358 Drilled 5140 to 5358 Footage cut last 24 hours 218'

Mud / Air mud Temperature in 126 °F. Out 148 °F. Mud Cooler On/OFF _____ Mud Loss last 24 hrs 80 bbls to formation

Mud Weight 9.4 Vis. 37 Waterloss 7.5 cc PH 11.0 Mud Cost last 24 hrs \$1,325;35,521 TTL

Hole Size 12 1/4" Deviation Surveys 5135: 15 1/4°N32E; 5250: 15 1/4°N31E

Bit # _____ same

Stabilizers, Reamers _____ "

Shocksups and other _____ "

Lithology 5140-5358: 100% ss-ss

Gases _____

Loss Circulation - Other 80 bbls to formation slowly from 5200-5350'

Mudlogger Monger Engineer/ Drilling Foreman Mara Geologist Deymonaz

ADDITIONAL REPORT 3 1/2 hrs drlg, 1 hr survey, 12 hrs drlg, 1/2 hr survey, 7 hrs drlg

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u> to <u>17'</u>	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>288'</u>	Forward <u>736,531</u>
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u> to <u>1055</u>	Daily Cost <u>12,224</u>
Liner	_____	_____	_____ to _____	TOTAL TO DATE <u>748,755</u>
Liner	_____	_____	_____ to _____	
Other	_____	_____	_____ to _____	

Cement Report _____

DAILY DRILLING REPORT

Report No. 31

Well No. 88-11A

Date: 12/10/84

Location SE of SE SEC 11 T 1S R 35E

Spud Date 11/10/84

County, State Esmeralda, NV Contractor Steam Reserve Corporation

Rig No. Willbros #10

Present Depth 5358 Drilled 5358 to 5358 Footage cut last 24 hours 0'

Mud / Air mud Temperature in °E Out 174 °E Mud Cooler On/Off On Mud Loss last 24 hrs _____

Mud Weight 9.4 Vis. 36 Waterloss 7.5 cc PH 10.0 Mud Cost last 24 hrs \$1,498;37,019 TTL

Hole Size 12 1/4 " Deviation Surveys 5333: 15°N30E

Bit # 14, Reed HS51 #954960

Stabilizers, Reamers 3. reamer redressed rerun #202264 short drl collar rerun #80009, near bit stabilizer new #800020, Monel

Shocksups and other drl collar rerun EWC #36, RWP Drilco redressed rerun #610846, shocksub Drilco rerun #31715, blade

Lithology (None) stabilizer SCI new #80114, 208" drl collars, blade stabilizer SCI, new #80097; 12-8" drl collars crossover

Gases _____

Loss Circulation - Other _____

Mudlogger Monger Engineer/ Drilling Foreman Mara Geologist Deymonaz

ADDITIONAL REPORT 1 hr survey, 14 hrs POH, inspect all drill collars, all subs, with Drilco and install valve on banjo box, 3 1/2 hrs RIH, 1 hr circulate 3,000', 4 1/2 hrs wash and ream from 5300-5338'. M. S. Kooms fell from BOP stack about 15' landing on cement pad and was transported by ambulance to Inyo-Mono Hospital in Bishop, CA

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u> to <u>17'</u>	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>288'</u>	Forward _____
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u> to <u>1055</u>	Daily Cost <u>27,369</u>
Liner	_____	_____	_____ to _____	TOTAL TO DATE <u>785,674</u>
Liner	_____	_____	_____ to _____	
Other	_____	_____	_____ to _____	

Cement Report _____

DAILY DRILLING REPORT

Report No. 32

Well No. 88-11A

Date: 12/11/84

Location SE of SE SEC 11 T 1S R 35E Spud Date 11/10/84

County, State Esmeralda, NV Contractor Steam Reserve Corporation Rig No. Willbros #10

Present Depth 5492 Drilled 5358 to 5492 Footage cut last 24 hours 134'

Mud / Air mud Temperature in 136 °E. Out 155 °E. Mud Cooler On/Off on Mud Loss last 24 hrs 100 bbls of mud

Mud Weight 9.4 Vis. 39 Waterloss 6.8 cc. PH 10.5 Mud Cost last 24 hrs \$1,675;38,694.

Hole Size 12 1/4 " Deviation Surveys none

Bit # same as 12/10

Stabilizers, Reamers _____

Shocksups and other New Drilco shocksub #31408

Lithology 5358-5492: 100% ss-ss

Gases CO₂ range avg. 350 ppm and C₁ 0 to a trace

Loss Circulation - Other 100 bbls lost to formation slowly

Mudlogger Monger Engineer/ Drilling Foreman Mara Geologist Deymonaz

ADDITIONAL REPORT 2 hrs wash and ream 5300-5358', 4 hrs POH and change out Drilco shocksub, 2 hrs RIH, 1 hr circulate @ 3380', 2 hrs RIH, 1 hr wash and ream 5300-5358', 12 hrs drlg.

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u> to <u>17'</u>	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>288'</u>	Forward _____
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u> to <u>1055</u>	Daily Cost <u>13,656.</u>
Liner	_____	_____	_____ to _____	TOTAL TO DATE <u>800,063</u>
Liner	_____	_____	_____ to _____	
Other	_____	_____	_____ to _____	

Cement Report _____

DAILY DRILLING REPORT

Report No. 33

Well No. 88-11A

Date: 12/12/84

Location SE of SE SEC 11 T 1S R 35E

Spud Date 11/10/84

County, State Esmeralda, NV Contractor Steam Reserve Corporation

Rig No. Willbros #10

Present Depth 5748 Drilled 5492 to 5748 Footage cut last 24 hours 256'

Mud / Air _____ Temperature in 145 °F. Out 162 °F. Mud Cooler On/Off _____ Mud Loss last 24 hrs _____

Mud Weight 9.3 Vis. 42 Waterloss 7.2 cc PH 11.0 Mud Cost last 24 hrs: 1,130;39,824 TTL

Hole Size 12 1/4" Deviation Surveys 5507: 14 3/4°N30E; 5657: 14 1/4°N26E

Bit # _____ same

Stabilizers, Reamers _____ "

Shocksups and other _____ "

Lithology 5492-5650: 60-100% sandst, 0-40% siltst; 5650-5748: 100% siltst.

Gases CO₂ 350 ppm; C₁ trace to 2 ppm

Loss Circulation - Other _____

Mudlogger Monger Engineer/ Drilling Foreman Mara Geologist Deymonaz

ADDITIONAL REPORT 1 hr survey (misrun), 4 hrs drlg, 1 hr survey, 1 hr repair motors, 8 1/2 hrs drlg, 1/2 hr survey, 2 hrs drlg, 2 1/2 hrs prime diesel motors, 3 1/2 hrs drilling.

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u> to <u>17'</u>	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>288'</u>	Forward _____
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u> to <u>1055</u>	Daily Cost <u>11,578</u>
Liner	_____	_____	_____ to _____	TOTAL TO DATE <u>814,252</u>
Liner	_____	_____	_____ to _____	
Other	_____	_____	_____ to _____	
Cement Report	_____	_____	_____ to _____	

DAILY DRILLING REPORT

Report No. 34

Well No. 88-11A

Date: 12/13/84

Location SE of SE SEC 11 T 1S R 35E

Spud Date 11/10/84

County, State Esmeralda, NV Contractor Steam Reserve Corporation

Rig No. Willbros #10

Present Depth 5973 Drilled 5748 to 5973 Footage cut last 24 hours 225'

Mud / Air mud Temperature in 119 °F. Out 150 °F. Mud Cooler On/Off on Mud Loss last 24 hrs _____

Mud Weight 9.3 Vis. 41 Waterloss 7.0 cc. PH 11.0 Mud Cost last 24 hrs 675;40,499TTL

Hole Size 12 1/4" Deviation Surveys 5755: 13°N26E; 5880: 13°N20E; 5942: 11°N19E

Bit # same

Stabilizers, Reamers "

Shocksups and other _____

Lithology 5748-5973: 100% dark gray siltst.

Gases _____

Loss Circulation - Other _____

Mudlogger Monger Engineer/ Drilling Foreman Mara Geologist Deymonaz

ADDITIONAL REPORT 2 hrs drlg, 1 hr survey, 10 1/2 hrs drlg, 1/2 hr survey, 4 hrs drlg, 1 hr survey, 1/2 hr drlg, 4 1/2 hrs POH

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u> to <u>17'</u>	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>288'</u>	Forward _____
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u> to <u>1055</u>	Daily Cost <u>11,272</u>
Liner	_____	_____	_____ to _____	TOTAL TO DATE <u>830,901</u>
Liner	_____	_____	_____ to _____	
Other	_____	_____	_____ to _____	
Cement Report	_____	_____	_____ to _____	

DAILY DRILLING REPORT

Report No. 35

Well No. 88-11A

Date: 12/14/84

Location SE of SE SEC 11 T 1S R 35E

Spud Date 11/10/84

County, State Esmeralda, NV Contractor Steam Reserve Corporation

Rig No. Willbros #10

Present Depth 6250 Drilled 5973 to 6250 Footage cut last 24 hours 277'

Mud / Air mud Temperature in 143 °F Out 169 °F Mud Cooler On/Off on Mud Loss last 24 hrs _____

Mud Weight 9.4 Vis. 41 Waterloss 7.4 cc PH 11.0 Mud Cost last 24 hrs 1,624;42,123 TTL

Hole Size 12 1/4" Deviation Surveys 6000: 10 3/4° N19E, 6060: 12° N15E, 6125: 13 1/4° N11E, 6188: 14° N9E

Bit # 15, HTC J33 #R2319

Stabilizers, Reamers same as before

Shocksups and other "

Lithology 5973-6250: 100% siltst.

Gases CO₂ 350 ppm, C₁ trace 5 ppm

Loss Circulation - Other _____

Mudlogger Monger Engineer/ Drilling Foreman Mara Geologist Deymonaz

ADDITIONAL REPORT 1 hr POH, 5 hrs chj out bottom hole assembly and RIH, 2 hrs ream 60' to bottom, 2 hrs drlg, 1/2 hr survey, 2 1/2 hrs drlg, 1/2 hr survey, 2 hrs drlg, 1/2 hr survey, 3 1/2 hrs drlg, 1 hr survey, 3 1/2 hrs drlg.

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u> to <u>17'</u>	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>288'</u>	Forward _____
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u> to <u>1055'</u>	Daily Cost <u>10,766</u>
Liner	_____	_____	_____ to _____	TOTAL TO DATE <u>803,397</u>
Liner	_____	_____	_____ to _____	
Other	_____	_____	_____ to _____	
Cement Report	_____			

DAILY DRILLING REPORT

Report No. 36

Well No. 88-11A

Date: 12/15/84

Location SE of SE SEC 11 T 1S R 35E Spud Date 11/10/84

County, State Esmeralda, NV Contractor Steam Reserve Corporation Rig No. Willbros #10

Present Depth 6336 Drilled 6250 to 6336 Footage cut last 24 hours 86'

Mud / Air mud Temperature in 117 °F Out 159 °F Mud Cooler On/Off on Mud Loss last 24 hrs. _____

Mud Weight 9.4 Vis. 40 Waterloss 7.0 cc PH 11.0 Mud Cost last 24 hrs: 1,584; 43,707 TTL

Hole Size 12 1/4 " Deviation Surveys 6249: 15 3/4° N5E

Bit # 15, #R2319

Stabilizers, Reamers 3. reamer #14869, short drl collar, NB stabilizer #80109, RWP #610770

Shocksups and other Security #62779, blade stabilizer #80111, new

Lithology 6250-6336: 100% siltst.

Gases CO₂ 350 ppm, C₁ 1-15 ppm

Loss Circulation - Other _____

Mudlogger Monger Engineer/ Drilling Foreman Mara Geologist Deymonaz

ADDITIONAL REPORT 2 hrs drlg, 1 hr survey, 1 hr drlg, 5 hrs POH, 2 hrs thaw water lines, 2 hrs chj out bottom hole assembly, 1 hr RIH, 1 hr circulate @ 3500', 1 hr RIH, 1/2 hr ream 60' to bottom, 1 hr drlg, 4 hrs rig repair

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u> to <u>17'</u>	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>288'</u>	Forward _____
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u> to <u>1055</u>	Daily Cost <u>26,888</u>
Liner	_____	_____	_____ to _____	TOTAL TO DATE <u>854,285</u>
Liner	_____	_____	_____ to _____	
Other	_____	_____	_____ to _____	
Cement Report	_____	_____	_____ to _____	

DAILY DRILLING REPORT

Report No. 37

Well No. 88-11A

Date: 12/ 16 /84

Location SE of SE SEC 11 T 1S R 35E

Spud Date 11/10/84

County, State Esmeralda, NV Contractor Steam Reserve Corporation

Rig No. Willbros #10

Present Depth 6595 Drilled 6336 to 6595 Footage cut last 24 hours 259'

Mud / Air mud Temperature in 120 °F. Out 165 °F. Mud Cooler On/Off on Mud Loss last 24 hrs _____

Mud Weight 9.5 Vis. 42 Waterloss 8.0 cc PH 10.5 Mud Cost last 24 hrs 1,485;45,192 TTL

Hole Size 12 1/4 " Deviation Surveys 6311: 16°N3E; 6373: 16 1/4°N1E; 6528: 16 1/2°North

Bit # 16, rerun

Stabilizers, Reamers same as before

Shocksups and other "

Lithology 6639-6390: 80-100% siltst, 0-20% sandst; 6390-6450: 30-90% sandst; 10-70% siltst; 6450-6540: 100% phyllitic siltst; 6540-6570: 70-100% dolomitic limestone, 0-30% phyllitic siltst; 6570-6603: 90-100% phyllitic quartz/siltst,

Gases 0-10% dolomitic limest.

Loss Circulation - Other GASES: CO₂ 350 ppm, C₁ 3-15 ppm

Mudlogger Monger Engineer/ Drilling Foreman Mara Geologist Deymonaz

ADDITIONAL REPORT 1/2 hr survey, 5.5 hrs drlg, 1 hr survey, 10 hrs drlg, 1/2 hr survey, 6 1/2 hrs drlg

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u> to <u>17'</u>	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>288'</u>	Forward _____
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u> to <u>1055</u>	Daily Cost <u>17,588</u>
Liner	_____	_____	_____ to _____	TOTAL TO DATE <u>874,873</u>
Liner	_____	_____	_____ to _____	
Other	_____	_____	_____ to _____	
Cement Report	_____			

DAILY DRILLING REPORT

Report No. 38

Well No. 88-11A

Date: 12/17/84

Location SE of SE SEC 11 T 1S R 35E

Spud Date 11/10/84

County, State Esmeralda, NV Contractor Steam Reserve Corporation

Rig No. Willbros #10

Present Depth 6800 Drilled 6595 to 6800 Footage cut last 24 hours 205

Mud / Air mud Temperature in 99 °F. Out 172 °F. Mud Cooler On/Off on Mud Loss last 24 hrs _____

Mud Weight 9.4 Vis. 41 Waterloss 7.8 cc PH 10.5 Mud Cost last 24 hrs \$1,784;46,976TTL

Hole Size 12 1/4 " Deviation Surveys 6622: 16°30'N07°W; 6797: 16°30'N10°W

Bit # same

Stabilizers, Reamers same

Shocksups and other "

Lithology 6603-6700:80%qtzite siltst, 20% limestone; 6740-6795: 100%qtzite siltst.

Gases CO₂ avg 350 ppm; C₁ 5-55 ppm

Loss Circulation - Other _____

Mudlogger Monger Engineer/ Drilling Foreman Ken Kelso Geologist Deymonaz

ADDITIONAL REPORT 4 hrs drlg, 1 hr survey, 12 hrs drlg, 2hrs drlg, 1/2 hr survey, 4 1/2 hrs drlg

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u> to <u>17'</u>	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>288'</u>	Forward _____
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u> to <u>1055</u>	Daily Cost <u>13,014</u>
Liner	_____	_____	_____ to _____	TOTAL TO DATE <u>912,928</u>
Liner	_____	_____	_____ to _____	
Other	_____	_____	_____ to _____	
Cement Report	_____			

DAILY DRILLING REPORT

Report No. 39

Well No. 88-11A

Date: 12/18/84

Location SE of SE SEC 11 T 1S R 35E

Spud Date 11/10/84

County, State Esmeralda, NV Contractor Steam Reserve Corporation

Rig No. Willbros #10

Present Depth 6894 Drilled 6800 to 6894 Footage cut last 24 hours 94'

Mud / Air mud Temperature in 165 °F. Out 182 °F. Mud Cooler On/Off off-wtr line ^{frozen} Mud Loss last 24 hrs _____

Mud Weight 9.4 Vis. 43 Waterloss 7.8 cc PH 10.0 Mud Cost last 24 hrs 478;47,454 TTL

Hole Size 12 1/4 " Deviation Surveys 6869: 14°45'N15°W

Bit # same

Stabilizers, Reamers "

Shocksups and other "

Lithology 6800-6894: 100% phyllitic qtzite siltst.

Gases CO₂ 350 ppm, C₇ 20-170 ppm

Loss Circulation - Other _____

Mudlogger Monger Engineer/ Drilling Foreman Kelso Geologist Deymonaz

ADDITIONAL REPORT 18 hrs drlg, 1 hr survey, 1 hr circulate bottoms up, 4 hrs trip out with bit #16

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u> to <u>17'</u>	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>288'</u>	Forward _____
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u> to <u>1055</u>	Daily Cost <u>10,629</u>
Liner	_____	_____	_____ to _____	TOTAL TO DATE <u>923,557</u>
Liner	_____	_____	_____ to _____	
Other	_____	_____	_____ to _____	

Cement Report _____

DAILY DRILLING REPORT

Report No. 40

Well No. 88-11A

Date: 12/19/84

Location SE of SE SEC 11 T 1S R 35E

Spud Date 11/10/84

County, State Esmeralda, NV Contractor Steam Reserve Corporation

Rig No. Willbros #10

Present Depth 7112 Drilled 6894 to 7112 Footage cut last 24 hours 218'

Mud / Air mud Temperature in 168 °F. Out 191 °F. Mud Cooler On/Off off-lack of ^{wtr} Mud Loss last 24 hrs _____

Mud Weight 9.5 Vis. 43 Waterloss 7.4 cc. PH 11.0 Mud Cost last 24 hrs \$1,087:48.462 TTL

Hole Size 12 1/4 " Deviation Surveys 6994: 14°N20W; 7087: 13°15'N22W

Bit # 16, 12 1/4 HTC J33 #WW542, new in @ 6894'

Stabilizers, Reamers reamer rerun #201667

Shocksups and other same as before

Lithology 6894-7112: 100 phyl. qtzitic siltst.

Gases CO₂ 350 ppm; C₁ 20-120 ppm

Loss Circulation - Other _____

Mudlogger Monger Engineer/ Drilling Foreman Kelso Geologist Deymonaz

ADDITIONAL REPORT 1 hr BHA, 1 hr RIH with drl collars, 1 hr slip and cut drlg line, 1/2 hr RIH, 1/2 hr circulate, 1 hr RIH, 4 hrs wash and ream from 6835-6894, 9 hrs drlg, 1 hr survey, 5 hrs drlg

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u> to <u>17'</u>	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>288'</u>	Forward _____
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u> to <u>1055</u>	Daily Cost <u>19,485</u>
Liner	_____	_____	_____ to _____	TOTAL TO DATE <u>945,268</u>
Liner	_____	_____	_____ to _____	
Other	_____	_____	_____ to _____	
Cement Report	_____			

DAILY DRILLING REPORT

Report No. 41

Well No. 88-11A

Date: 12/20/84

Location SE of SE SEC 11 T 1S R 35E

Spud Date 11/10/84

County, State Esmeralda, NV Contractor Steam Reserve Corporation

Rig No. Willbros #10

Present Depth 7361 Drilled 7112 to 7361 Footage cut last 24 hours 249

Mud / Air mud Temperature in 157 °E. Out 182 °E. Mud Cooler On/Off off Mud Loss last 24 hrs _____

Mud Weight 9.5 Vis. 37 Waterloss 7.2 cc PH 10.5 Mud Cost last 24 hrs: 214,48,755 TTL

Hole Size 12 1/4 " Deviation Surveys 7179: 12°15'N23W; 7272: 11°45'N26W; 7334: 10°45'N31W

Bit # _____ same as before

Stabilizers, Reamers _____

Shocksups and other _____

Lithology 7112-7220: 100% phyll, qtzitic siltst; 7220-7364: 40% limest, 60% phyll

Gases CO₂ 350-1300 ppm; C₁ 60-444 ppm

Loss Circulation - Other _____

Mudlogger Monger Engineer/ Drilling Foreman Kelso Geologist Deymonaz

ADDITIONAL REPORT 1 hr survey, 4 1/2 hrs drlg, 1 hr survey, 4 1/2 hrs drlg, 1 hr survey, 3 hrs drlg, 1 hr survey,

5 hrs circulate, wait on water, thaw out water lines, transfer water from water truck to rig storage tank,

3 hrs POH with bit #16 for BHA change.

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u> to <u>17'</u>	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>288'</u>	Forward _____
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u> to <u>1055</u>	Daily Cost <u>13,468</u>
Liner	_____	_____	_____ to _____	TOTAL TO DATE <u>963,473</u>
Liner	_____	_____	_____ to _____	
Other	_____	_____	_____ to _____	
Cement Report	_____			

DAILY DRILLING REPORT

Report No. 42

Well No. 88-11A

Date: 12/21/84

Location SE of SE SEC 11 T 1S R 35E

Spud Date 11/10/84

County, State Esmeralda, NV Contractor Steam Reserve Corporation Rig No. Wilbros #10

Present Depth 7625 Drilled 7361 to 7625 Footage cut last 24 hours 264

Mud / Air mud Temperature in 160 °E. Out 185 °E. Mud Cooler On/Off off Mud Loss last 24 hrs 0

Mud Weight 9.5 Vis. 40 Waterloss 7.2 cc PH 10.0 Mud Cost last 24 hrs \$598, \$49,353 total

Hole Size 12 1/4 " Deviation Surveys 7442:12°N39W; 7535: 13°45'N40W

Bit # 16 - same, cut 721 feet in 42 1/2 hours

Stabilizers, Reamers 3. reamer #14869, L.C.+M.C.+ 2D.C.+RWP, rerun #610720+1D.C.+stabilizer rerun #80109+3D.C.+

Shocksups and other stabilizer + rerun #80111 + 9D.C. + Xover and drillpipe

Lithology 7361 - 7450: 75% limest, 25% phyllitic siltst; 7450 - 7625: 90% quartz siltst, 10% limest.

Gases H₂S 0 ppm, CO₂ 450 - 1000 ppm, C₁ 40-160 ppm.

Loss Circulation - Other 7500-7575 loss 150 bbl, 7620 gained 150 bbl

Mudlogger Monger Engineer/ Drilling Foreman Kelso Geologist Deymonaz

ADDITIONAL REPORT 1 hour p.o.h., 1 hour change b.h.a., 3 hours r.i.h., 2 1/2 hours w/r from 7305-7361, 5 1/2 hours drilling,

1 hour survey, 3 hours drilling, 6 hours drilling, 1 hour survey.

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u> to <u>17'</u>	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>288'</u>	Forward _____
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u> to <u>1055</u>	Daily Cost <u>36,602</u>
Liner	_____	_____	_____ to _____	TOTAL TO DATE <u>1,000,075</u>
Liner	_____	_____	_____ to _____	
Other	_____	_____	_____ to _____	

Cement Report 1 load of water hauled today by truck.

DAILY DRILLING REPORT

Well No. 88-11A

Report No. 43

Date: 12/22/84

Location SE of SE SEC 11 T 1S R 35E Spud Date 11/10/84

County, State Esmeralda, NV Contractor Steam Reserve Corporation Rig No. Willbros #10

Present Depth 7653 Drilled 7625 to 7653 Footage cut last 24 hours 28

Mud / Air mud Temperature in 170° F. Out 201° F. Mud Cooler On/Off off Mud Loss last 24 hrs 70 bbl

Mud Weight 9.5 Vis. 40 Waterloss 7.2 cc PH 10.0 Mud Cost last 24 hrs: \$1,603, \$50,956 tt1

Hole Size 12 1/4 " Deviation Surveys 7628: 15°30'N45W

Bit # 16, 749 ft in 43 hrs; #17 HTC J33 #WW566, 0 ft in 0 hrs.

Stabilizers, Reamers 3, reamer new #20843, LC+ new stabalizer #80073+MC+RWP new #610806+1 DC+stabalizer used #80105+s/sub

Shocksups and other 2DC + stablizer(used) #80111 + 11DC + Xover + drillpipe

Lithology 7625 - 7653: 90% Quartz siltst, 10% limest

Gases H₂S 0 ppm, CO₂ 450-1000 ppm, C₁ 40-160 ppm

Loss Circulation - Other 7580 lost 250 bbl, 180 bbl recovered, total of 70 bbl complete loss

Mudlogger Monger Engineer/ Drilling Foreman Kelso Geologist Deymonaz

ADDITIONAL REPORT 1 hr drilling to 7653, 1 1/2 hr survey, 1 1/2 hr circulate b.u., 5 hrs poh with #16 bit, 1 hr change bha, 1 hr rih with #17, 1 hr circulate at 2813, 1/2 hr rih, 1 hr circulate at 5842', 1/2 hr rih, 1/2 hr lay down 1 single, w/r at 7580 stuck pipe on connection. 9 1/2 hr working stuck pipe, mix and spot jel and diesel pill consisting of 60bbl, 30 gal DMS 150 pounds WL, 100, 18 SKS sacks of jel, 10bbl oil, spot 40 bbl outside drill collars with 20 bbl inside drill collars, move 1/2 bbl volume every 1/2 hour.

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u> to <u>17'</u>	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>288'</u>	Forward _____
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u> to <u>1055</u>	Daily Cost <u>26,800</u>
Liner	_____	_____	_____ to _____	TOTAL TO DATE <u>1,011,075</u>
Liner	_____	_____	_____ to _____	
Other	_____	_____	_____ to _____	
Cement Report	<u>2 loads of water hauled by truck today.</u>			

DAILY DRILLING REPORT

Report No. 44

Well No. 88-11A

Date: 12/23/84

Location SE of SE SEC 11 T 1S R 35E Spud Date 11/10/84

County, State Esmeralda, NV Contractor Steam Reserve Corporation Rig No. Willbros #10

Present Depth 7653 Drilled 0 to 0 Footage cut last 24 hours 0

Mud / Air mud Temperature in 151°F Out 182°F Mud Cooler On/Off on/off Mud Loss last 24 hrs 0

Mud Weight 9.2 Vis. 38 Waterloss 7.2 cc PH 10.0 Mud Cost last 24 hrs \$0, \$50.956 tt1

Hole Size 12 1/4 " Deviation Surveys none

Bit # 17 same as before, 0 footage in 0 hours

Stabilizers, Reamers same

Shocksups and other same

Lithology same

Gases same

Loss Circulation - Other none

Mudlogger Monger Engineer/ Drilling Foreman Kelso Geologist Deymonaz

ADDITIONAL REPORT 16 hrs working stuck pipe from 7580 - 7610, rig and run dialog freepoint at 7584 4 hrs, 1 1/2 hrs work stuck pipe, 2 1/2 hrs run 11 string shot to back off drill collars at 7584.

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u> to <u>17'</u>	Budgeted <u> </u>
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>288'</u>	Forward <u> </u>
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u> to <u>1055</u>	Daily Cost <u>14,270</u>
Liner	<u> </u>	<u> </u>	<u> </u> to <u> </u>	TOTAL TO DATE <u>1,025,345</u>
Liner	<u> </u>	<u> </u>	<u> </u> to <u> </u>	
Other	<u> </u>	<u> </u>	<u> </u> to <u> </u>	

Cement Report no water hauled today.

DAILY DRILLING REPORT

Report No. 45

Well No. 88-11A

Date: 12/24/84

Location SE of SE SEC 11 T 1S R 35E Spud Date 11/10/84

County, State Esmeralda, NV Contractor Steam Reserve Corporation Rig No. Willbros #10

Present Depth 7653 Drilled 0 to 0 Footage cut last 24 hours 0

Mud / Air mud Temperature in 150 °F Out 182 °F Mud Cooler On/OFF off Mud Loss last 24 hrs _____

Mud Weight 9.3 Vis. 38 Waterloss 7.2 cc PH 10.0 Mud Cost last 24 hrs: \$317, \$41,273 tbt

Hole Size 12 1/4 " Deviation Surveys none

Bit # 17 same, 0 footage in 0 hours

Stabilizers, Reamers same

Shocksups and other same

Lithology same

Gases same

Loss Circulation - Other none

Mudlogger Monger Engineer/ Drilling Foreman Kelso Geologist Deymonaz

ADDITIONAL REPORT 4 1/2 hrs unload 9 5/8 casing and strap same, 2 hrs ha, pu jars bumper sub, 5DC rih stop at 1648, 1/2 hr work pipe hole bridged over. 1 1/2 hrs poh with jar setup, 1 1/2 hrs unload casing and strap same, 1 hr pickup bit and 5 drill collars, short trip in at 1648 w/r bridge, 1 1/2 hrs poh, 1/2 hr make up drilling assembly bha, 2 1/2 hrs pickup jarring setup plus 5 drill collars rih at 2850, 1/2 hr circulating and cool, 1 hr rih, 1 1/2 hrs circulating and cool, 1/2 hr rih, 1/2 hrs screw into fish and jar loose at 6AM

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u> to <u>17'</u>	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>2RR'</u>	Forward _____
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u> to <u>1055</u>	Daily Cost <u>15,375</u>
Liner	_____	_____	_____ to _____	TOTAL TO DATE <u>1,040,720</u>
Liner	_____	_____	_____ to _____	
Other	_____	_____	_____ to _____	

Cement Report no water* hauled today. Unload 8 loads 9 5/8 casing total 214 joints, total footage 8,539.98 (threads off)

DAILY DRILLING REPORT

Report No. 46

Well No. 88-11A

Date: 12/25 /84

Location SE of SE SEC 11 T 1S R 35E Spud Date 11/10/84

County, State Esmeralda, NV Contractor Steam Reserve Corporation Rig No. Willbros #10

Present Depth 7653 Drilled 0 to 0 Footage cut last 24 hours 0

Mud / Air mud Temperature in 158 °E Out 170 °E Mud Cooler On/Off off Mud Loss last 24 hrs 100 bbl

Mud Weight 9.2 Vis. 38 Waterloss 7.2 cc PH 10.0 Mud Cost last 24 hrs: \$51,273 total

Hole Size 12½ " Deviation Surveys none

Bit # 17, J33 #WW566, 0 footage in 0 hours

Stabilizers, Reamers same

Shocksups and other lay down s/sub

Lithology same

Gases same

Loss Circulation - Other 160-180 bbl lost while reaming, approximately 60 bbl returned

Mudlogger Monger Engineer/ Drilling Foreman Kelso Geologist Deymonaz

ADDITIONAL REPORT 1 hr jar out 2 singles, 1 hr poh, 2 hrs rigdown dialog co. & tools, 2½ hrs poh, 2½ hrs lay down all fishing tools make up boa, 1½ hrs rih to 3336 ft., 1 hr circulate and cool hole, 1½ hr run in hole to 7400 circulate and cool hole, 4 hrs w/r from 7400-756C 7 hrs w/r from 7560-7653. (on bottom at 6AM)

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u> to <u>17'</u>	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>288'</u>	Forward _____
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u> to <u>1055</u>	Daily Cost <u>10,950</u>
Liner	_____	_____	_____ to _____	TOTAL TO DATE <u>1,051,670</u>
Liner	_____	_____	_____ to _____	
Other	_____	_____	_____ to _____	

Cement Report _____

DAILY DRILLING REPORT

47

Report No. _____

Well No. 88-11A

Date: 12/26 /84

Location SE of SE SEC 11 T 1S R 35E Spud Date 11/10/84

County, State Esmeralda, NV Contractor Steam Reserve Corporation Rig No. Willbros #10

Present Depth 7719 Drilled 7653 to 7719 Footage cut last 24 hours 66 feet

Mud / Air mud Temperature in 155 °F. Out 184 °F. Mud Cooler On/Off off Mud Loss last 24 hrs 200 bbl

Mud Weight 9.2 Vis. 35 Waterloss 7.2 cc PH 10.0 Mud Cost last 24 hrs \$2,038;\$54,151ttl

Hole Size 12 3/4 " Deviation Surveys none

Bit # 17 same

Stabilizers, Reamers same

Shocksups and other same

Lithology 90-75% phyllitic quartzitic siltst., 10-25% limest.

Gases H₂S 0 ppm, CO₂ 900-1450 ppm, C₁ 350 ppm

Loss Circulation - Other 200 bbl while drilling

Mudlogger Monger Engineer/ Drilling Foreman Kelso Geologist Deymonaz

ADDITIONAL REPORT 3 hrs drilling, 1 hr circulating, 6 hrs pipe torqued and backed off at 614', poh with same, pin split rih with bent joint, screw in and pressure up, poh steelline measurement, 1 hr replace fill up line, 2 1/2 hrs poh stand all drill collars back, 3 1/2 hrs rih with drill pipe laydown 14 joints bent pipe, 7hrs rih with remainder drill pipe, poh laying down bent drill pipe, 40 joints (25 joints new, useable drill pipe at location, 1500 feet coming on truck)

Well History	Hole Size	Casing Size	Interval		EXPENDITURES	
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u>	to	<u>17'</u>	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u>	to	<u>288'</u>	Forward _____
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u>	to	<u>1055</u>	Daily Cost <u>\$12,300</u>
Liner	_____	_____	_____	to	_____	TOTAL TO DATE <u>\$1,063,970</u>
Liner	_____	_____	_____	to	_____	
Other	_____	_____	_____	to	_____	

Cement Report _____

DAILY DRILLING REPORT

Report No. 48
Date: 12/27/84

Well No. 88-11A

Location SE of SE SEC 11 T 1S R 35E Spud Date 11/10/84

County, State Esmeralda, NV Contractor Steam Reserve Corporation Rig No. Willbros #10

Present Depth 7719 Drilled 0 to 7719 Footage cut last 24 hours 0

Mud / Air mud Temperature in 0 °F. Out 0 °F. Mud Cooler On/Off off Mud Loss last 24 hrs none

Mud Weight 9.0 Vis. 38 Waterloss 7.2 cc PH 10.0 Mud Cost last 24 hrs \$54,151

Hole Size 12-1/4 " Deviation Surveys none

Bit # 17 J 33 WW 566 (same)

Stabilizers, Reamers same

Shocksups and other same

Lithology 75 - 90% phyllic quartz siltstone; 10-25% limestone

Gases H₂S - 0 ppm; CO₂ - 900-1450 ppm; C₁ - 350 ppm

Loss Circulation - Other none

Mudlogger Monger Engineer/ Drilling Foreman Kelso Geologist Deymonaz

ADDITIONAL REPORT 1 hr. - lay down bent drill pipe; 3 hrs. rih; sort out, lay down bent drill pipe; 2 hrs. - unload bulk mud from truck, load 52 joints bent drill pipe on same; 3 hrs. - sort out and lay down bent drill pipe, 11 joints; 2 hrs. rih, sort out and lay down remainder bent drill pipe, 7 joints; total 70 joints loaded out to Spinner Straightening, Inc., Santa Paula, CA. Inspection - 6 hrs. rih with 8" drill collars, lay down 2 bad drill collars; 7 hrs. rih and inspect remainder of 8" drill collars + Kelly + subs and all stabilizers complete. Weight indicator calibrated and certified by Martin Decker Co. this day.

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u> to <u>17'</u>	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>288'</u>	Forward _____
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u> to <u>1055</u>	Daily Cost <u>\$13,398.</u>
Liner	_____	_____	_____ to _____	TOTAL TO DATE <u>\$1,077,368.</u>
Liner	_____	_____	_____ to _____	
Other	_____	_____	_____ to _____	

Cement Report Quality Transportation Co. \$1898, water hauling, 16 loads.

Drill collar inspection \$800.

One accident (C. L. Skinner) Wilbros employee, left foot bruised badly; taken by ambulance to Bishop hospital, released same day.

DAILY DRILLING REPORT

Report No. 49

Well No. 88-11A

Date: 12/28/84

Location SE of SE SEC 11 T 1S R 35E

Spud Date 11/10/84

County, State Esmeralda, NV Contractor Steam Reserve Corporation

Rig No. Willbros #10

Present Depth 7719 Drilled 7719 to 7719 Footage cut last 24 hours 0'

Mud / Air Temperature in °E. Out °E. Mud Cooler On/Off Mud Loss last 24 hrs

Mud Weight 8.7 Vis. 34 Waterloss 14 cc PH 11 Mud Cost last 24 hrs 2,206.56, 357 TTL

Hole Size 12 1/4 " Deviation Surveys

Bit # 17, same

Stabilizers, Reamers same

Shocksups and other "

Lithology

Gases

Loss Circulation - Other

Mudlogger Monger Engineer/ Drilling Foreman Kelso Geologist Neymonaz

ADDITIONAL REPORT 14 hrs clean all pits, condition mud, 3 hrs pick up new drl pipe 24 joint measure and stand back,

3.5 hrs condition mud system and wait on drl pipe, 3.5 hrs unload & pickup drl pipe - 65 joints

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u> to <u>17'</u>	Budgeted <u> </u>
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>288'</u>	Forward <u> </u>
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u> to <u>1055</u>	Daily Cost <u>13,703</u>
Liner	<u> </u>	<u> </u>	<u> </u> to <u> </u>	TOTAL TO DATE <u>1,103,612</u>
Liner	<u> </u>	<u> </u>	<u> </u> to <u> </u>	
Other	<u> </u>	<u> </u>	<u> </u> to <u> </u>	
Cement Report	<u> </u>	<u> </u>	<u> </u>	

DAILY DRILLING REPORT

Report No. 50

Well No. 88-11A

Date: 12/29/84

Location SE of SE SEC 11 T 1S R 35E

Spud Date 11/10/84

County, State Esmeralda, NV Contractor Steam Reserve Corporation

Rig No. Willbros #10

Present Depth 7870 Drilled 7719 to 7870 Footage cut last 24 hours 151

Mud / Air mud Temperature in 160 °E. Out 183 °E. Mud Cooler On/Off off Mud Loss last 24 hrs +/- 50 bbls

Mud Weight 8.8 Vis. 34 Waterloss 12.9 cc PH 11 Mud Cost last 24 hrs: 2,418; 58,775 TTL

Hole Size 12 1/4" Deviation Surveys 7789; 15°45'N50W

Bit # 18, Smith F3L #CZ1084

Stabilizers, Reamers 3. reamer Monel collar RWP, 1 drl collar, stabil., 2 drl collars, stabil., 11 drl collars, crossover & drl pipe.

Shocksups and other _____

Lithology 90-100% phyllite; 0-10% limest.

Gases _____

Loss Circulation - Other _____

Mudlogger Monger Engineer/ Drilling Foreman Kelso Geologist Neymonaz

ADDITIONAL REPORT 3 hrs pickup drl pipe, 6.5 hrs RIH, 3 hrs circ @ 2800 & 5500', 2.5 hrs ream and wash from 7535-7719, 7.5 hrs drlq, 1.5 hrs survey

Well History	Hole Size	Casing Size	Interval		EXPENDITURES	
					Budgeted	Forward
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u>	to <u>17'</u>	_____	_____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u>	to <u>2RR'</u>	_____	_____
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u>	to <u>1055</u>	_____	Daily Cost <u>19,871</u>
Liner	_____	_____	_____	to _____	_____	TOTAL TO DATE <u>1,123,483</u>
Liner	_____	_____	_____	to _____	_____	
Other	_____	_____	_____	to _____	_____	
Cement Report	_____					_____

DAILY DRILLING REPORT

Report No. 51

Well No. 88-11A

Date: 12/30/84

Location SE of SE SEC 11 T 1S R 35E

Spud Date 11/10/84

County, State Esmeralda, NV Contractor Steam Reserve Corporation

Rig No. Willbros #10

Present Depth 8093 Drilled 7870 to 8093 Footage cut last 24 hours 223'

Mud / Air mud Temperature in 162 °F. Out 193 °F. Mud Cooler On/Off _____ Mud Loss last 24 hrs. _____

Mud Weight 9.0 Vis. 39 Waterloss 7.8 cc PH 11 Mud Cost last 24 hrs: 2,418,58,775 TTL

Hole Size 12 1/4 " Deviation Surveys 8031: 17°N50W

Bit # 18, same

Stabilizers, Reamers same

Shocksups and other same

Lithology 100% phyllite

Gases CO₂ 390-800 ppm, C₁ 18-50 ppm

Loss Circulation - Other _____

Mudlogger Monger Engineer/ Drilling Foreman Kelso Geologist Neymonaz

ADDITIONAL REPORT 24 hrs drlg

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u> to <u>17'</u>	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>288'</u>	Forward _____
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u> to <u>1055</u>	Daily Cost <u>12,052</u>
Liner	_____	_____	_____ to _____	TOTAL TO DATE <u>1,135,535</u>
Liner	_____	_____	_____ to _____	
Other	_____	_____	_____ to _____	
Cement Report	_____	_____	_____	

DAILY DRILLING REPORT

Well No. 88-11A

Report No. 52

Date: 12/31/84

Location SE of SE SEC 11 T 1S R 35E

Spud Date 11/10/84

County, State Esmeralda, NV Contractor Steam Reserve Corporation

Rig No. Willbros #10

Present Depth 8329 Drilled 8093 to 8329 Footage cut last 24 hours 236'

Mud / Air mud Temperature in 165 °E. Out 189 °E. Mud Cooler On/Off _____ Mud Loss last 24 hrs _____

Mud Weight 9.0 Vis. 41 Waterloss 7.1 cc PH 11.0 Mud Cost last 24 hrs: 4079; 66,940 TTL

Hole Size 12 1/4 " Deviation Surveys 8315: 16 1/4°N55W

Bit # same

Stabilizers, Reamers "

Shocksups and other "

Lithology 8095-8190: 100% phyll. & siltst; 8190-8230: 95% phyll.

Gases CO₂ 350-490 ppm, C₁ 12-47 ppm

Loss Circulation - Other _____

Mudlogger Monger Engineer/ Drilling Foreman _____ Day _____ Geologist Deymonaz

ADDITIONAL REPORT 22.5 hrs drlg, 1.5 hrs survey

Well History

Hole Size

Casing Size

Interval

EXPENDITURES

Conductor	<u>36"</u>	<u>30"</u>	<u>0</u> to <u>17'</u>	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>2RR'</u>	Forward _____
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u> to <u>1055</u>	Daily Cost <u>14,143</u>
Liner	_____	_____	_____ to _____	TOTAL TO DATE <u>1,149,678</u>
Liner	_____	_____	_____ to _____	
Other	_____	_____	_____ to _____	

Cement Report _____

DAILY DRILLING REPORT

Report No. 53

Well No. 88-11A

Date: 1/1/85

Location SE of SE SEC 11 T 1S R 35E

Spud Date 11/10/84

County, State Esmeralda, NV Contractor Steam Reserve Corporation

Rig No. Willbros #10

Present Depth 8586 Drilled 8329 to 8586 Footage cut last 24 hours 257

Mud / Air mud Temperature in 170 °E. Out 193 °E. Mud Cooler On/Off _____ Mud Loss last 24 hrs _____

Mud Weight 9.1 Vis. 41 Waterloss 7.0 cc PH 10.9 Mud Cost last 24 hrs: 3,123; 75942 TTL

Hole Size 12 1/4 " Deviation Surveys _____

Bit # same

Stabilizers, Reamers _____

Shocksups and other _____

Lithology 8329-8440: 100% phyll. siltst; 8440-8591-60-90% recrystallized limest

Gases H₂S 0-.6 ppm, CO₂ 360-690 ppm, C₁ 10-90 ppm

Loss Circulation - Other _____

Mudlogger Monger Engineer/ Drilling Foreman Day Geologist Deymonaz

ADDITIONAL REPORT 1 hr continue drlg, 1 hr survey, 20.5 hrs drlg, 1.5 hr survey

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u> to <u>17'</u>	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>2RR'</u>	Forward _____
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u> to <u>1055</u>	Daily Cost <u>11,999</u>
Liner	_____	_____	_____ to _____	TOTAL TO DATE <u>1,161,677</u>
Liner	_____	_____	_____ to _____	
Other	_____	_____	_____ to _____	
Cement Report	_____	_____	_____	_____

DAILY DRILLING REPORT

Report No. 54

Well No. 88-11A

Date: 1/02/85

Location SE of SE SEC 11 T 1S R 35E

Spud Date 11/10/84

County, State Esmeralda, NV Contractor Steam Reserve Corporation

Rig No. Willbros #10

Present Depth 8589 Drilled 8589 to 8589 Footage cut last 24 hours 0'

Mud / Air mud Temperature in -- °E. Out -- °E. Mud Cooler On/Off off Mud Loss last 24 hrs 1200 bbls

Mud Weight -- Vis. --- Waterloss -- cc PH -- Mud Cost last 24 hrs \$1,066;77,008 TTL

Hole Size 12 1/4" Deviation Surveys --

Bit # _____

Stabilizers, Reamers _____

Shocksups and other _____

Lithology White calcite

Gases _____

Loss Circulation - Other Complete return @8589

Mudlogger Monger RELEASED Engineer/ Drilling Foreman _____ Day _____ Geologist Neymonaz

ADDITIONAL REPORT 12 hr drilled to 8589', lost compl. return, 5.5 hrs POH and lay down stabilization, 4 hrs RIH with open ended drill pipe and pickup 16 joints drl pipe, 5.5 hrs jet pits and rig up HOWCO, 1.5 hrs HOWCO set 50 sacks sand plug, 1/2 hr pull 7 stands of drill pipe, 1 hr RIH to tag sand, no plug, 1/2 hr HOWCO set 100 sacks sand plug @ 8490', 1.5 hrs POH, 7 stands and wait on stand plug, 1/2 hr RIH & tag top of sand plug @8509, 3 hrs pkup Kelly & pump slow, reestablish circulation, circulate slowly

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u> to <u>17'</u>	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>2RR'</u>	Forward _____
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u> to <u>1055</u>	Daily Cost <u>25,787</u>
Liner	_____	_____	_____ to _____	TOTAL TO DATE <u>1,194,592</u>
Liner	_____	_____	_____ to _____	
Other	_____	_____	_____ to _____	
Cement Report	_____	_____	_____	

DAILY DRILLING REPORT

Report No. 55

Well No. 88-11A

Date: 1/3/85

Location SE of SE SEC 11 T 1S R 35E

Spud Date 11/10/84

County, State Esmeralda, NV Contractor Steam Reserve Corporation

Rig No. Willbros #10

Present Depth 8589 Drilled 8589 to 8589 Footage cut last 24 hours 0'

Mud / Air mud Temperature in °E Out °E Mud Cooler On/Off _____ Mud Loss last 24 hrs _____

Mud Weight 8.8 Vis. 35 Waterloss 12 cc PH 11.4 Mud Cost last 24 hrs 3707.80, 715 TTL

Hole Size 12 1/4 " Deviation Surveys _____

Bit # 19 rerun, 12 1/4 Smith F3L #CZ1084

Stabilizers, Reamers _____

Shocksups and other _____

Lithology _____

Gases _____

Loss Circulation - Other _____

Mudlogger Monger Engineer/ Drilling Foreman _____ Day _____ Geologist Neymonaz

ADDITIONAL REPORT 1 hr circulate, 1/2 hr HOWCO set 200 sacks of cmt plug, 1 hr POH 16 stands, 1 hr circ, 2.5 hrs POH, 3 hrs RIH with bt #19 rerun, 1 hr move mud cooler & block stand, 1/2 hr RIH to 7611, 3.5 hrs circ, condition mud in hole, 1 hr finish RIH tag top of cmt @ 8225, 1 hr drl cmt 8225-8397, 8 hrs circ & cond mud & WQC

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u> to <u>17'</u>	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>288'</u>	Forward _____
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u> to <u>1055</u>	Daily Cost <u>12,000</u>
Liner	_____	_____	_____ to _____	TOTAL TO DATE <u>1,203,627</u>
Liner	_____	_____	_____ to _____	
Other	_____	_____	_____ to _____	
Cement Report	_____			

DAILY DRILLING REPORT

Report No. 56

Well No. 88-11A

Date: 1 / 4 / 85

Location SE of SE SEC 11 T 1S R 35E Spud Date 11/10/84

County, State Esmeralda, NV Contractor Steam Reserve Corporation Rig No. Willbros #10

Present Depth 8589 Drilled 8397 plug depth Footage cut last 24 hours 0

Mud / Air _____ Temperature in _____ °E. Out _____ °E. Mud Cooler On/Off _____ Mud Loss last 24 hrs. _____

Mud Weight 8.9 Vis. 38 Waterloss 11.0 cc PH 11.2 Mud Cost last 24 hrs: 663; 81,378

Hole Size _____ " Deviation Surveys _____

Bit # _____

Stabilizers, Reamers _____

Shocksups and other _____

Lithology _____

Gases _____

Loss Circulation - Other _____

Mudlogger Monger Engineer/ Drilling Foreman _____ Day _____ Geologist Neymonaz

ADDITIONAL REPORT 10 hrs circ & cond mud in hole, WOC, 3 hrs POH for logs, 2 hrs rig up Schlumberger, 9 hrs logging

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u> to <u>17'</u>	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>288'</u>	Forward _____
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u> to <u>1055</u>	Daily Cost <u>13,200</u>
Liner	_____	_____	_____ to _____	TOTAL TO DATE <u>1,213,618</u>
Liner	_____	_____	_____ to _____	
Other	_____	_____	_____ to _____	
Cement Report	_____	_____	_____ to _____	

DAILY DRILLING REPORT

Report No. 57

Well No. RR-11A

Date: 1 / 5/85

Location SE of SE SEC 11 T 15 R 35E

Spud Date 11/10/84

County, State Esmeralda, NV Contractor Steam Reserve Corporation

Rig No. Millbros #10

Present Depth plug back depth 8397 Drilled to Footage cut last 24 hours 0

Mud / Temperature in °E. Out °E. Mud Cooler On/OFF Mud Loss last 24 hrs.

Mud Weight 8.9 Vis. 38 Waterloss 11 cc PH 11.2 Mud Cost last 24 hrs: --; 81,378 TTL

Hole Size 12 1/4 " Deviation Surveys

Bit # 19, rerun

Stabilizers, Runners Monel drill collar + 5-8" drill collars

Shocksups and other

Lithology

Gases

Loss Circulation - Other

Mudlogger Monger Engineer/ Drilling Foreman Day Geologist Deymonaz

ADDITIONAL REPORT 15 hrs Schlumberger logging; 1.5 hrs RIH, 1/2 hr circ, 1 hr RIH, 2.5 hrs break circ & work on SCR, 1.5 hrs RIH, 1/2 hr brk circ & wash to bottom 1' of fill, 1.5 hrs circ

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u> to <u>17'</u>	Budgeted <u> </u>
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>288'</u>	Forward <u> </u>
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u> to <u>1055</u>	Daily Cost <u>14,000</u>
Liner	<u> </u>	<u> </u>	<u> </u> to <u> </u>	TOTAL TO DATE <u>1,227,618 (corrected)</u>
Liner	<u> </u>	<u> </u>	<u> </u> to <u> </u>	
Other	<u> </u>	<u> </u>	<u> </u> to <u> </u>	
Cement Report	<u> </u>	<u> </u>	<u> </u> to <u> </u>	

DAILY DRILLING REPORT

Report No. 58

Well No. 88-11A

Date: 1/6/85

Location SE of SE SEC 11 T 1S R 35E

Spud Date 11/10/84

County, State Esmeralda, NV Contractor Steam Reserve Corporation

Rig No. Willbros #10

Present Depth same as 1/5 Drilled _____ to _____ Footage cut last 24 hours 0'

Mud / Air _____ Temperature in _____ °E. Out _____ °E. Mud Cooler On/Off _____ Mud Loss last 24 hrs _____

Mud Weight 8.9 Vis. 40 Waterloss 11 cc. PH 11.2 Mud Cost last 24 hrs: \$81,378 TTL

Hole Size 12 1/4" Deviation Surveys _____

Bit # 19 rerun Monel drl collar & 5-8" drl collars

Stabilizers, Reamers _____

Shocksups and other _____

Lithology _____

Gases _____

Loss Circulation - Other _____

Mudlogger Monger Engineer/ Drilling Foreman _____ Day _____ Geologist Deymonaz

ADDITIONAL REPORT 4 hrs circ & cond mud, 3.5 hrs POH, 1/2 hr rig up Schlumb, 15 hrs logging, 1 hr rig down Schlumb

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u> to <u>17'</u>	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>288'</u>	Forward _____
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u> to <u>1055</u>	Daily Cost <u>57,293</u>
Liner	_____	_____	_____ to _____	TOTAL TO DATE <u>1,286,648</u>
Liner	_____	_____	_____ to _____	
Other	_____	_____	_____ to _____	
Cement Report	_____			

DAILY DRILLING REPORT

Report No. 59

Well No. 88-11A

Date: 1/07/85

Location SE of SE sec 11 T 1S R 35E

Spud Date 11/10/84

County, State Esmeralda, NV Contractor Steam Reserve Corporation

Rig No. 4111bros #10

Present Depth plug back 8397; Drilled 8589 TD to _____ Footage cut last 24 hours 0'

Mud / Air _____ Temperature in _____ °F. Out _____ °F. Mud Cooler On/Off _____ Mud Loss last 24 hrs: 300 bbls over shaker

Mud Weight 8.9 Vis. 44 Waterloss 13 cc PH 11 Mud Cost last 24 hrs: 1696;83074 TTL

Hole Size 12 1/4 " Deviation Surveys _____

Bit # 19 rerun

Stabilizers, Reamers _____

Shocksups and other _____

Lithology _____

Gases _____

Loss Circulation - Other + 300 bbls over shaker picture nipple, thick mud, bottoms ups

Mudlogger Monger Engineer/ Drilling Foreman _____ Day _____ Geologist Neymonaz

ADDITIONAL REPORT 2 hrs rig repair, WO SCR repairman, 1 hr RIH with 10 stands, 1/2 hr cut drlg line, 3 hrs circl,

1.5 hrs RIH, 1 hr break circl @ 5000', 1 hr RIH to bottom @ 8397, 10 hrs circl & cond hole & build volume,

4 hrs POH with drl pipe, rig up to lay down drl collar

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u> to <u>17'</u>	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>288'</u>	Forward _____
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u> to <u>1055</u>	Daily Cost <u>15,502</u>
Liner	_____	_____	_____ to _____	TOTAL TO DATE <u>1,302,150</u>
Liner	_____	_____	_____ to _____	
Other	_____	_____	_____ to _____	

Cement Report _____

DAILY DRILLING REPORT

Report No. 60
 Date: 1 / 8 / 85

Well No. 88-11A

Location SE of SE SEC 11 T 1S R 35E Spud Date 11/10/84

County, State Esmeralda, NV Contractor Steam Reserve Corporation Rig No. Willbros #10

Present Depth 8397 Plg bk Drilled 8589 TD to _____ Footage cut last 24 hours 0'

Mud / Air _____ Temperature in _____ °F. Out _____ °F. Mud Cooler On/Off _____ Mud Loss last 24 hrs. _____

Mud Weight 8.9 Vis. 35 Waterloss 13 cc. PH 10.9 Mud Cost last 24 hrs. 698; 83,772 TTL

Hole Size 12 1/4 " Deviation Surveys _____

Bit # _____

Stabilizers, Runners _____

Shocksups and other _____

Lithology _____

Gases _____

Loss Circulation - Other _____

Mudlogger Monger Engineer/ Drilling Foreman _____ Day _____ Geologist Deymonaz

ADDITIONAL REPORT 1 hr rig up lay down machine, 1.5 hrs lay dwn Monel & 8" drl collar, 1.5 hrs make up & stand back liner hanger, 1 hr rig up casing tools, 3 hrs run 9 5/8" 47# N80 buttress casing, 1 hr break circl, 11.5 hrs running 9 5/8" casing, 1.5 hrs break circl & attempt to wash dwn, could not pass 8342, hang liner hanger @ 8342, 1 hr instl. cmt plug head & circl, casing: 191 joints (7605.71), run 122 joints of 47# N80 buttress = 4834.23 & 69 joints of 47# K55 buttress = 2771.48

Well History	Hole Size	Casing Size	Interval		EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u>	to <u>17'</u>	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u>	to <u>288'</u>	Forward _____
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u>	to <u>1055</u>	Daily Cost <u>210,148</u>
Liner	<u>12 1/4</u>	<u>9 5/8</u>	<u>723</u>	to <u>8342</u>	TOTAL TO DATE <u>1,512,650</u>
Liner	_____	_____	_____	to _____	
Other	_____	_____	_____	to _____	

Cement Report Run HOWCO' super seal float shoe & float collar + 6 centralizers, vapor locked 1st 6 connections

DAILY DRILLING REPORT

Report No. 61

Well No. 88-11A

Date: 1/9/85

Location SE of SE SEC 11 T 1S R 35E

Spud Date 11/10/84

County, State Esmeralda, NV Contractor Steam Reserve Corporation

Rig No. Willbros #10

Present Depth 8329 Drilled 8589 TD to _____ Footage cut last 24 hours _____

Mud / Air _____ Temperature in _____ °E. Out _____ °E. Mud Cooler On/OFF _____ Mud Loss last 24 hrs _____

Mud Weight 8.9 Vis. 38 Waterloss 15 cc. PH 10 Mud Cost last 24 hrs: 700; 84,472

Hole Size 12 1/4 " Deviation Surveys _____

Bit # _____

Stabilizers, Reamers _____

Chocks and other _____

Lithology _____

Losses _____

Loss Circulation - Other _____

Drilllogger Monger Engineer/ Drilling Foreman _____ Day _____ Geologist Deymonaz

ADDITIONAL REPORT 1 hr circl, 8 hrs circl for casing, 4 hrs Halliburton cmtd 9 5/8" casing, 1 hr release liner hanger & POH
2 stands, circl out mud & cmt, 2 hrs finish POH & lay down liner hanger, 1 hr flush & clean BOPE, 7 hrs wait on cmt

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u> to <u>17'</u>	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>288'</u>	Forward _____
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u> to <u>1055</u>	Daily Cost <u>131,924</u>
Liner	_____	_____	_____ to _____	TOTAL TO DATE <u>1,644,574</u>
Liner	_____	_____	_____ to _____	
Other	_____	_____	_____ to _____	
Completion Report	_____			

DAILY DRILLING REPORT

Report No. 62

Well No. 88-11A

Date: 1/10/85

Location SE of SE SEC 11 T 1S R 35E

Spud Date 11/10/84

County, State Esmeralda, NV Contractor Steam Reserve Corporation

Rig No. Willbros #10

Present Depth 8329 Drilled 8589 TD to _____ Footage cut last 24 hours _____

Mud / Air _____ Temperature in _____ °E. Out _____ °E. Mud Cooler On/Off _____ Mud Loss last 24 hrs. _____

Mud Weight _____ Vis. _____ Waterloss _____ cc. PH _____ Mud Cost last 24 hrs: 183; 83,955 TTL

Hole Size _____" Deviation Surveys _____

Bit # _____

Stabilizers, Reamers _____

Shocksups and other _____

Lithology _____

Gases _____

Loss Circulation - Other _____

Mudlogger Monger Engineer/ Drilling Foreman _____ Day _____ Geologist Deymonaz

ADDITIONAL REPORT 9 hrs WOC, 2 hrs RIH with rerun 12 1/4 bit & tag top of cmt @590', 1 hr drl cmt from 590-724,

1 hr circl, 1/2 hr POH with 12 1/4 bit, 3.5 hrs set rotating head, test minor lap with 1000 psi ok,

3.5 hrs welded on flow nipple, 3.5 hrs rig up flow & bloopie lines

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u> to <u>17'</u>	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>288'</u>	Forward _____
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u> to <u>1055</u>	Daily Cost <u>13,019</u>
Liner	_____	_____	_____ to _____	TOTAL TO DATE <u>1,657,593</u>
Liner	_____	_____	_____ to _____	
Other	_____	_____	_____ to _____	
Cement Report	_____	_____	_____	_____

DAILY DRILLING REPORT

Report No. 63

Well No. 88-11A

Date: 1/11/85

Location SE of SE SEC 11 T 1S R 35E

Spud Date 11/10/84

County, State Esmeralda, NV Contractor Steam Reserve Corporation

Rig No. Willbros #10

Present Depth 8589 TD Drilled _____ to _____ Footage cut last 24 hours _____

Mud / Air _____ Temperature in _____ °F. Out _____ °F. Mud Cooler On/Off _____ Mud Loss last 24 hrs _____

Mud Weight _____ Vis. _____ Waterloss _____ cc PH _____ Mud Cost last 24 hrs _____

Mole Size _____ " Deviation Surveys _____

Bit # 19, 8 1/2 security S4TJ #316875

Stabilizers, Reamers _____

Shocksups and other _____

Lithology _____

Gases _____

Loss Circulation - Other _____

Mudlogger Monger Engineer/ Drilling Foreman _____ Day _____ Geologist Neymonaz

ADDITIONAL REPORT 1 hr rig up rotating head, 4 hrs install blowie line, 3 hrs RIH with 8 1/2 bit, 2 hrs drl liner wiper plug, 4 hrs cont RIH, 6.5 hrs drl cmt, float collar & float shoe, 3.5 hrs drl cmt & sand plug @ 6am

Well History	Mole Size	Casing Size	Interval	EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u> to <u>17'</u>	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>200'</u>	Forward _____
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u> to <u>1055</u>	Daily Cost <u>18,841</u>
Liner	_____	_____	_____ to _____	TOTAL TO DATE <u>1,672,964</u>
Liner	_____	_____	_____ to _____	
Other	_____	_____	_____ to _____	
Cement Report	_____	_____	_____ to _____	

DAILY DRILLING REPORT

Report No. 64

Well No. 88-11A

Date: 1/12/85

Location SE of SE SEC 11 T 1S R 35E

Spud Date 11/10/84

County, State Esmeralda, NV Contractor Steam Reserve Corporation

Rig No. Willbros #10

Present Depth 8589 TD Drilled _____ to _____ Footage cut last 24 hours _____

Mud / Air _____ Temperature in _____ °E Out _____ °E Mud Cooler On/Off _____ Mud Loss last 24 hrs _____

Mud Weight _____ Vis. _____ Waterloss _____ cc PH _____ Mud Cost last 24 hrs _____

Mole Size _____ " Deviation Surveys _____

Bit # _____

Stabilizers, Reamers _____

Shocksups and other _____

Lithology _____

Gases _____

Loss Circulation - Other _____

Mudlogger Monger Engineer/ Drilling Foreman _____ Day _____ Geologist Deymonaz

ADDITIONAL REPORT 1.5 hrs dri cmt & sand plug to 8589, loss circ, 1/2 hrs POH 6 stands, 1/2 hr sump water, 3.5 hrs instl test equip, bleed lines, etc., 2 hrs pressure well 88-11 with air, 3 hrs POH to 1021, 4 hrs unload well with air, 1/2 hr POH to 559, 1/2 hr blow well, 2.5 hrs RIH to 713, unload well, install blind on rotating head, 3 hrs RIH to 2035, 1/2 hr unload well

Well History	Mole Size	Casing Size	Interval	EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u> to <u>17'</u>	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>288'</u>	Forward _____
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u> to <u>1055</u>	Daily Cost <u>13,016</u>
Liner	_____	_____	_____ to _____	TOTAL TO DATE <u>1,686,180</u>
Liner	_____	_____	_____ to _____	
Other	_____	_____	_____ to _____	
Cement Report	_____	_____	_____ to _____	

DAILY DRILLING REPORT

Report No. 65

Well No. 88-11A

Date: 1 / 13 / 85

Location SE of SE SEC 11 T 1S R 35E

Spud Date 11/10/84

County, State Esmeralda, NV Contractor Steam Reserve Corporation

Rig No. Willbros #10

Present Depth 8589 TD Drilled _____ to _____ Footage cut last 24 hours _____

Mud / Air _____ Temperature in _____ °F. Out _____ °F. Mud Cooler On/OFF _____ Mud Loss last 24 hrs _____

Mud Weight _____ Vis. _____ Waterloss _____ cc PH _____ Mud Cost last 24 hrs _____

Hole Size _____ M. Deviation Surveys _____

Bit # _____

Stabilizers, Reamers _____

Shocksups and other _____

Lithology _____

Gases _____

Loss Circulation - Other _____

Mudlogger Monger Engineer/ Drilling Foreman _____ Day _____ Geologist Neymonaz

ADDITIONAL REPORT 2.5 hrs unload hole @2035, 4.5 HRS RIH to 3053 & unld hole, 2 hrs RIH to 3610 & unld hole, 2 hrs POW & remove drl collars, 2 hrs RIH with cut down bit, 2 subs & drl pipe & blow hole from 1510, 2.5 hrs RIH & unload hole from 2438, 8 hrs RIH & unld hole from 3366, 1/2 hr RIH to 4015

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u> to <u>17'</u>	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>288'</u>	Forward _____
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u> to <u>1055</u>	Daily Cost <u>15,546</u>
Liner	_____	_____	_____ to _____	TOTAL TO DATE <u>1,701,726</u>
Liner	_____	_____	_____ to _____	
Other	_____	_____	_____ to _____	
Cement Report	_____	_____	_____	

DAILY DRILLING REPORT

66

Report No. _____

Well No. 88-11A

Date: 1 / 14 / 85

Location SE of SE SEC 11 T 1S R 35E

Spud Date 11/10/84

County, State Esmeralda, NV Contractor Steam Reserve Corporation

Rig No. Willbros #10

Present Depth 8589 TD Drilled _____ to _____ Footage cut last 24 hours _____

Mud / Air _____ Temperature in _____ °F. Out _____ °F. Mud Cooler On/OFF _____ Mud Loss last 24 hrs _____

Mud Weight _____ Vis. _____ Waterloss _____ cc, PH _____ Mud Cost last 24 hrs: _____

Hole Size _____ " Deviation Surveys _____

Bit # _____

Stabilizers, Reamers _____

Shocksups and other _____

Lithology _____

Gases _____

Loss Circulation - Other _____

Mudlogger Monger Engineer/ Drilling Foreman _____ Day _____ Geologist Deymonaz

ADDITIONAL REPORT 2 hrs unload hole, 1/2 hr POH, 4.5 hrs wireline temp survey, 1/2 hr RIH with modified bit, sub & drl pipe to 684', 3.5 hrs test well, 1 hr POH, change rubbers in float, RIH to 684', 1.5 hrs POH with 2 stands, lost flow, RIH with 2 stands of drl pipe, 2.5 hrs unload hole, 4.5 hrs flow well

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u> to <u>17'</u>	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>288'</u>	Forward _____
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u> to <u>1055</u>	Daily Cost <u>14,097</u>
Liner	_____	_____	_____ to _____	TOTAL TO DATE <u>1,713,093</u>
Liner	_____	_____	_____ to _____	
Other	_____	_____	_____ to _____	
Cement Report	_____	_____	_____ to _____	

DAILY DRILLING REPORT

Report No. 67

Well No. 88-11A

Date: 1 / 15 / 85

Location SE of SE SEC 11 T 1S R 35E

Spud Date 11/10/84

County, State Esmeralda, NV Contractor Steam Reserve Corporation

Rig No. Willbros #10

Present Depth 8589 TD Drilled _____ to _____ Footage cut last 24 hours _____

Mud / Air _____ Temperature in _____ °E. Out _____ °E. Mud Cooler On/Off _____ Mud Loss last 24 hrs _____

Mud Weight _____ Vis. _____ Waterloss _____ cc PH _____ Mud Cost last 24 hrs _____

Hole Size _____ " Deviation Surveys _____

Bit # _____

Stabilizers, Reamers _____

Shocksups and other _____

Lithology _____

Gases _____

Loss Circulation - Other _____

Mudlogger Monger Engineer/ Drilling Foreman _____ Day _____ Geologist Neymonaz

ADDITIONAL REPORT 3 hrs RIH to lay down drill pipe, 1 hr rig up, lay down machine, 8 hrs lay down drl pipe & drl collar, 12 hrs nipple down BOPE

Well History	Hole Size	Casing Size	Interval
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u> to <u>17'</u>
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>288'</u>
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u> to <u>1055</u>
Liner	_____	_____	_____ to _____
Liner	_____	_____	_____ to _____
Other	_____	_____	_____ to _____

EXPENDITURES	
Budgeted	_____
Forward	_____
Daily Cost	<u>33,665</u>
TOTAL TO DATE	<u>1,762,382</u>

Cement Report _____

Fish Lake

Esmeralda County, Nevada

DAILY DRILLING REPORT

Report No. 68

Well No. 88-11A

Date: 1/16/85

Location SE of SE SEC 11 T 1S R 35E

Spud Date 11/10/84

County, State Esmeralda, NV Contractor Steam Reserve Corporation

Rig No. Willbros #10

Present Depth 8589 TD Drilled to Footage cut last 24 hours

Mud / Air Temperature in °F Out °F Mud Cooler On/Off Mud Loss last 24 hrs

Mud Weight Vis. Waterloss cc PH Mud Cost last 24 hrs

Hole Size " Deviation Surveys

Bit #

Stabilizers, Reamers

Shocksups and other

Lithology

Gases

Loss Circulation - Other

Mudlogger Monger Engineer/ Drilling Foreman Day Geologist Neymonaz

ADDITIONAL REPORT 24 hrs nipple down BOPE & rigging down rig.

Well History

Hole Size

Casing Size

Interval

EXPENDITURES

Conductor 36" 30" 0 to 17'

Budgeted

Surface 26" 20" 0 to 288'

Forward

Intermediate 17 1/2" 13 3/8" 0 to 1055

Daily Cost 7,704

Liner to

TOTAL TO DATE 1,770,086

Liner to

Other to

Cement Report

DAILY DRILLING REPORT

Report No. 69

Well No. 88-11A

Date: 1/17/85

Location SE of SE SEC 11 T 1S R 35E

Spud Date 11/10/84

County, State Esmeralda, NV Contractor Steam Reserve Corp.

Rig No. Willbros #10

Present Depth 8589 TD Drilled _____ to _____ Footage cut last 24 hours _____

Mud / Air _____ Temperature in _____ °F. Out _____ °F. Mud Cooler On/Off _____ Mud Loss last 24 hrs _____

Mud Weight _____ Vis. _____ Waterloss _____ cc. PH _____ Mud Cost last 24 hrs _____

Hole Size _____ " Deviation Surveys _____

Bit # _____

Stabilizers, Reamers _____

Shocksups and other _____

Lithology _____

Gases _____

Loss Circulation - Other _____

Mudlogger _____ Engineer/ Drilling Foreman Day Geologist Deymonaz

ADDITIONAL REPORT _____

Well History	Hole Size	Casing Size	Interval	EXPENDITURES
Conductor	<u>36"</u>	<u>30"</u>	<u>0</u> to <u>17'</u>	Budgeted _____
Surface	<u>26"</u>	<u>20"</u>	<u>0</u> to <u>288'</u>	Forward _____
Intermediate	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>0</u> to <u>1055'</u>	Daily Cost _____
Liner	<u>12 1/4"</u>	<u>9 5/8"</u>	<u>723</u> to <u>8342</u>	TOTAL TO DATE _____
Liner	_____	_____	_____ to _____	
Other	_____	_____	_____ to _____	

Cement Report _____

