

DAILY DRILLING REPORT

Project - Hole: (1186-44) 56-29 Date: December 21, 1981
 Location: NW $\frac{1}{4}$ of SE $\frac{1}{4}$ Sec. 29 T 1N R 38 $\frac{1}{2}$ E Spud Date: December 8, 1981
 County, State: Esmeralda, Nevada Day #: 14
 Prog. Depth: 1500' Contractor: Harris-Stevens
 Geologist: John Deymonaz Rig.: Failing 1500

Drilled _____ to _____ Mud ~~XXXXXX~~ _____
 Footage Cut _____ Temp: In _____ Out _____
 Hole Size _____ Wt _____
 Dev. Survey _____ @ _____ Vis _____
 Casing _____ Ph _____
 Bits, stabs, etc. & ser. # _____

Lithology _____
 Additional Report _____

Set 1490' of 2-7/8" tubing and filled with water. Removed BOPE,
set 12' cement plug between tubing and 7" casing and began
demob of drilling equipment. Released rig at 2030.

Well History

<u>Interval</u>	<u>Hole Size</u>	<u>Casing</u>	<u>Expenditures</u>
<u>0-162'</u>	<u>9-7/8"</u>	<u>7"</u>	Total to date _____
<u>162-715'</u>	<u>6-1/8"</u>	<u>none</u>	Projected <u>\$50,000</u>
<u>715-785'</u>	<u>6"</u>	<u>none</u>	Cost/Ft _____
<u>785-805'</u>	<u>5-7/8"</u>	<u>none</u>	Budgeted <u>\$60,000</u>
<u>805-930'</u>	<u>5-7/8"</u>	<u>none</u>	
<u>930-1015'</u>	<u>5-5/8"</u>	<u>none</u>	
<u>1015-1195'</u>	<u>5-5/8"</u>	<u>none</u>	
<u>1195-1490' TD</u>	<u>5-5/8"</u>	<u>none</u>	

DAILY DRILLING REPORT

Project - Hole: (1186-44) 56-29 Date: December 20, 1981
 Location: NW $\frac{1}{4}$ of SE $\frac{1}{4}$ Sec. 29 T 1N R 38 $\frac{1}{2}$ E Spud Date: December 8, 1981
 County, State: Esmeralda, Nevada Day #: 13
 Prog. Depth: 1500' Contractor: Harris-Stevens
 Geologist: John Deymonaz Rig.: Failing 1500

Drilled 1195' to 1490' Mud XXXXXX
 Footage Cut 295' Temp: In 132^oF Out 145^oF
 Hole Size 5-7/8" Wt 8.9
 Dev. Survey @ Vis 41
 Casing _____ Ph _____

Bits, stabs, etc. & ser. # 5-7/8" button bit #30760; 45' of 4 $\frac{1}{2}$ " collars, 30' of 3 $\frac{1}{2}$ " collars

Lithology Shales and siltstones

Additional Report Completed hole to 1490'. Drillers ran 20 hr. shift.

Drilling rate approximately 25' per hr. Losing fluids at approximately
400 gal. per hr.; 2500 gal. fluids lost at 1485'. Running cottonseed
hulls and Quick Seal in mud system.

Well History

Interval	Hole Size	Casing
<u>0-162'</u>	<u>9-7/8"</u>	<u>7"</u>
<u>162-715'</u>	<u>6-1/8"</u>	<u>none</u>
<u>715-785'</u>	<u>6"</u>	<u>none</u>
<u>785-805'</u>	<u>5-7/8"</u>	<u>none</u>
<u>805-930'</u>	<u>5-7/8"</u>	<u>none</u>
<u>930-1015'</u>	<u>5-7/8"</u>	<u>none</u>
<u>1015-1195'</u>	<u>5-7/8"</u>	<u>none</u>
<u>1195-1490' TD</u>	<u>5-7/8"</u>	<u>none</u>

Expenditures

Total to date _____
 Projected \$50,000
 Cost/Ft _____
 Budgeted \$60,000

DAILY DRILLING REPORT

Project - Hole: (1186-44) 56-29 Date: December 19, 1981
 Location: NW $\frac{1}{4}$ of SE $\frac{1}{4}$ Sec. 29 T 1N R 38 $\frac{1}{2}$ E Spud Date: December 8, 1981
 County, State: Esmeralda, Nevada Day #: 12
 Prog. Depth: 1500' Contractor: Harris-Stevens
 Geologist: John Deymonaz Rig.: Failing 1500

Drilled 1015' to 1195' Mud XXXXXX
 Footage Cut 180' Temp: In 108^oF Out 117^oF
 Hole Size 5-7/8" Wt 8.9
 Dev. Survey @ Vis 40
 Casing _____ Ph _____

Bits, stabs, etc. & ser. # 5-5/8" button bit #30760; 45' of 4 $\frac{1}{2}$ " collars, 30' of 3 $\frac{1}{2}$ " collars

Lithology Shales and siltstones

Additional Report Drillers running 18 hr. shift. Drilling rate picked up at 1015' to about 25' per hour in hard shales and siltstones. Losing drilling fluids at approximately 400 gal. per hr; 1000 gal. fluids lost at 1035'. Using cottonseed hulls and Quick Seal in mud system.

Well History

Interval	Hole Size	Casing
<u>0-162'</u>	<u>9-7/8"</u>	<u>7"</u>
<u>162-715'</u>	<u>6-1/8"</u>	<u>none</u>
<u>715-785'</u>	<u>6"</u>	<u>none</u>
<u>785-805'</u>	<u>5-7/8"</u>	<u>none</u>
<u>805-930'</u>	<u>5-7/8"</u>	<u>none</u>
<u>930-1015'</u>	<u>5-7/8"</u>	<u>none</u>
<u>1015-1195'</u>	<u>5-7/8"</u>	<u>none</u>

Expenditures

Total to date _____
 Projected \$50,000
 Cost/Ft _____
 Budgeted \$60,000

DAILY DRILLING REPORT

Project - Hole: (1186-44) 56-29 Date: December 18, 1981
 Location: NW $\frac{1}{2}$ of SE $\frac{1}{2}$ Sec. 29 T 1N R 38 $\frac{1}{2}$ E Spud Date: December 8, 1981
 County, State: Esmeralda, Nevada Day #: 11
 Prog. Depth: 1500' Contractor: Harris-Stevens
 Geologist: John Deymonaz Rig.: Failing 1500

Drilled 930' to 1015' Mud XXXXXX
 Footage Cut 85' Temp: In 119^oF Out 137^oF
 Hole Size 5-7/8" Wt 8.8
 Dev. Survey @ Vis 38
 Casing _____ Ph _____

Bits, stabs, etc. & ser. # 5-7/8" button bit #30760; 45' of 4 $\frac{1}{2}$ " collars, 40' of 3 $\frac{1}{2}$ " collars
 Lithology Hard dense dark gray siltstone and interbedded shales
 Additional Report Drilling rate approximately 15' per hour

Well History

Interval	Hole Size	Casing	Expenditures
<u>0-162'</u>	<u>9-7/8"</u>	<u>7"</u>	Total to date _____
<u>162-715'</u>	<u>6-1/8"</u>	<u>none</u>	Projected <u>\$50,000</u>
<u>715-785'</u>	<u>6"</u>	<u>none</u>	Cost/Ft _____
<u>785-805'</u>	<u>5-7/8"</u>	<u>none</u>	Budgeted <u>\$60,000</u>
<u>805-930'</u>	<u>5-7/8"</u>	<u>none</u>	
<u>930-1015'</u>	<u>5-7/8"</u>	<u>none</u>	

DAILY DRILLING REPORT

Project - Hole: 56-29 Date: 12/17/81

Location: NW 1/4 of SE 1/4 Sec. 29 T 1N R 38 1/2E Spud Date: _____

County, State: Esmeralda, NV Day #: _____

Prog. Depth: _____ Contractor: Harris-Stevens

Geologist: John Deymonaz Rig.: _____

Drilled 805' to 930' Mud/Air/ _____

Footage Cut 125' Temp: In _____ Out _____

Hole Size 5 7/8" Wt _____

Dev. Survey _____ @ _____ Vis _____

Casing _____ Ph _____

Bits, stabs, etc. & ser. # 5 7/8" button bit, 45' of 4 1/2" collars, 40' of 3 1/2" collars.

Lithology Hard dense dark gray siltstone and interbedded shales.

Additional Report Drilling rate approximately 15' per hour.

Well History

<u>Interval</u>	<u>Hole Size</u>	<u>Casing</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Expenditures

Total to date \$30,000.
 Projected 50,000.
 Cost/Ft _____
 Budgeted 60,000.

DAILY DRILLING REPORT

Project - Hole: (1186-44) 56-29 Date: December 16, 1981
 Location: NW $\frac{1}{4}$ of SE $\frac{1}{4}$ Sec. 29 T 1N R 38 $\frac{1}{2}$ E Spud Date: December 8, 1981
 County, State: Esmeralda, Nevada Day #: 9
 Prog. Depth: 1500' Contractor: Harris-Stevens
 Geologist: John Deymonaz Rig.: Failing 1500

Drilled 785' to 805' Mud/~~Air~~/~~xx~~
 Footage Cut 20' Temp: In 92^oF Out 103^oF
 Hole Size 5-7/8" Wt _____
 Dev. Survey @ Vis _____
 Casing _____ Ph _____

Bits, stabs, etc. & ser. # 5-7/8" button bit

Lithology Hard silicic siltstone.*

Additional Report 0600-1100: hauling water, mixing mud, RIH. 1100-1630: losing circulation, pumped approx. 6,000 gal. of mud, cottonseed hulls without returns.

POH, dumped 2 bags cottonseed hulls, 1 bag of buckstop and 1 mattress down hole followed with mud and regained circulation. RIH. 1630-1800: Drilling, penetration rate 15' p/h. Nick Nuttycombe from AMAX Tucson office spent the day on the project; toured the area & collected drl cuttings for Au, Ag and Hg analysis.

*The Paleozoic section has considerable pyrite both disseminated and concentrated along the fractures and in mylonite zones.

Well History

<u>Interval</u>	<u>Hole Size</u>	<u>Casing</u>	<u>Expenditures</u>
<u>0-162'</u>	<u>9-7/8"</u>	<u>7"</u>	<u>Total to date _____</u>
<u>162-715'</u>	<u>6-1/8"</u>	<u>none</u>	<u>Projected _____</u>
<u>715-785'</u>	<u>6"</u>	<u>none</u>	<u>Cost/Ft _____</u>
<u>785-805'</u>	<u>5-7/8"</u>	<u>none</u>	<u>Budgeted _____</u>
_____	_____	_____	
_____	_____	_____	

DAILY DRILLING REPORT

Project - Hole: (1186-44) 56-29 Date: December 15, 1981
 Location: NW $\frac{1}{4}$ of SE $\frac{1}{4}$ Sec. 29 T 1N R 38 $\frac{1}{2}$ E Spud Date: December 8, 1981
 County, State: Esmeralda, Nevada Day #: 8
 Prog. Depth: 1500' Contractor: Harris-Stevens
 Geologist: John Deymonaz Rig.: Failing 1500

Drilled _____ to _____ ~~MIX~~/Air/foam injection _____
 Footage Cut _____ Temp: In _____ Out _____
 Hole Size _____ Wt _____
 Dev. Survey _____ @ _____ Vis _____
 Casing _____ Ph _____

Bits, stabs, etc. & ser. # _____
 Lithology _____
 Additional Report _____

Drill crew driving to Delta for additional collars and bits.
Returned about 2200 hours.

Well History

Interval	Hole Size	Casing
<u>0-162'</u>	<u>9-7/8"</u>	<u>7"</u>
<u>162-715'</u>	<u>6-1/8"</u>	<u>none</u>
<u>715-785'</u>	<u>6"</u>	<u>none</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

Expenditures

Total to date _____
 Projected \$36,000
 Cost/Ft _____
 Budgeted _____

DAILY DRILLING REPORT

Project - Hole: (1186-44) 56-29 Date: December 14, 1981

Location: NW $\frac{1}{4}$ of SE $\frac{1}{4}$ Sec. 29 T 1N R 38 $\frac{1}{2}$ E Spud Date: December 8, 1981

County, State: Esmeralda, Nevada Day #: 7

Prog. Depth: 1500' Contractor: Harris-Stevens

Geologist: John Deymonaz Rig.: Failing 1500

Drilled 715' to 785' XXX/Air/ foam injection

Footage Cut 70' Temp: In _____ Out _____

Hole Size 6" Wt _____

Dev. Survey @ Vis _____

Casing _____ Ph _____

Bits, stabs, etc. & ser. # 6" hammer

Lithology hard dark gray silicic siltstones (Paleozoic section)

Additional Report _____

Drillers arrived with new hammer bit about 1300 hrs. Water flow increased gradually to 60 gpm at 785'. Flow line temperatures increased from 161⁰F at 760' to 176⁰F at 785'. At 785' the hammer failed. The high downhole temperatures apparently caused some rubber seals in the hammer to fail. Drill crew left for Delta to pick up collars and drill bits. Will resume drilling with mud and

button bit on 12/16/81. Spot temp taken at 193m during bit change was 91.3⁰C (196⁰F). Envirolabs probe failed after sitting in hole for approximately 15 min.

			<u>Expenditures</u>
<u>Interval</u>	<u>Hole Size</u>	<u>Casing</u>	
<u>0-162'</u>	<u>9-7/8"</u>	<u>7"</u>	Total to date <u>\$21,000</u>
<u>162-715'</u>	<u>6-1/8"</u>	<u>none</u>	Projected <u>\$36,000</u>
<u>715-785'</u>	<u>6"</u>	<u>none</u>	Cost/Ft _____
_____	_____	_____	Budgeted _____
_____	_____	_____	
_____	_____	_____	

DAILY DRILLING REPORT

Project - Hole: (1186-44) 56-29 Date: December 13, 1981
 Location: NW $\frac{1}{2}$ of SE $\frac{1}{2}$ Sec. 29 T 1N R 38 $\frac{1}{2}$ E Spud Date: December 8, 1981
 County, State: Esmeralda, Nevada Day #: 6
 Prog. Depth: 1500' Contractor: Harris-Stevens
 Geologist: John Deymonaz Rig.: Failing 1500

Drilled 465' to 715' MXM/Air/foam injection
 Footage Cut 250' Temp: In _____ Out _____
 Hole Size 6-1/8" Wt _____
 Dev. Survey @ Vis _____
 Casing _____ Ph _____

Bits, stabs, etc. & ser. # 6-1/8" hammer
 Lithology hard dark gray silicic siltstones (Paleozoic section)
 Additional Report _____

5-10 gpm H₂O encountered beginning at 630'. Drilling progressed at
approximately 40' per hour to 715' a small fracture kicked the hole off
to one side and the hammer could not drill a straight hole through
the section. When pulled, the bit had only 4 buttons left and had lost
approximately 1/8" gauge. A 6-1/8" rock will be run in the hole in
an attempt to straighten the hole prior to continuing with the hammer
bit.

Well History

<u>Interval</u>	<u>Hole Size</u>	<u>Casing</u>	<u>Expenditures</u>
<u>0-162'</u>	<u>9-7/8"</u>	<u>7"</u>	<u>Total to date \$21,000</u>
<u>162-715'</u>	<u>6-1/8"</u>	<u>none</u>	<u>Projected \$36,000</u>
_____	_____	_____	<u>Cost/Ft _____</u>
_____	_____	_____	<u>Budgeted _____</u>

DAILY DRILLING REPORT

Project - Hole: (1186-44) 56-29 Date: December 12, 1981
 Location: NW $\frac{1}{4}$ of SE $\frac{1}{4}$ Sec. 29 T 1N R 38 $\frac{1}{2}$ E Spud Date: December 8, 1981
 County, State: Esmeralda, Nevada Day #: 5
 Prog. Depth: 1500' Contractor: Harris-Stevens
 Geologist: John Deymonaz Rig.: Failing 1500

Drilled 300' to 465' M/M/Air/ foam injection
 Footage Cut 165' Temp: In _____ Out _____
 Hole Size 6-1/8" Wt _____
 Dev. Survey @ Vis _____
 Casing _____ Ph _____

Bits, stabs, etc. & ser. # 6-1/8" rock bit; 6-1/8" hammer bit

Lithology 300-365': siltstones & shales (Esmeralda Formation). 365-465': hard dark gray silicic siltstones (Paleozoic section)
 Additional Report _____

Drilling progressed smoothly to 365' where hard silicic siltstones were encountered. The rock bit was tripped out at 380' and drilling continued with a hammer.

Well History

Interval	Hole Size	Casing
<u>0-162'</u>	<u>9-7/8"</u>	<u>7"</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Expenditures

Total to date _____
 Projected _____
 Cost/Ft _____
 Budgeted _____

DAILY DRILLING REPORT

Project - Hole: (1186-44) 56-29 Date: December 11, 1981
 Location: NW $\frac{1}{4}$ of SE $\frac{1}{4}$ Sec. 29 T 1N R 38 $\frac{1}{2}$ E Spud Date: December 8, 1981
 County, State: Esmeralda, Nevada Day #: 4
 Prog. Depth: 1500' Contractor: Harris-Stevens
 Geologist: John Deymonaz Rig.: Failing 1500

Drilled 162' to 300' ~~MWD~~/Air/ foam injection
 Footage Cut 138' Temp: In _____ Out _____
 Hole Size 6-1/8" Wt _____
 Dev. Survey @ Vis _____
 Casing _____ Ph _____

Bits, stabs, etc. & ser. # 6-1/8" rock bit
 Lithology siltstones and shales (Esmeralda Formation)

Additional Report _____
Rigged up BOPE, tested blind rams at 250 psi for 15 min and pipe
rams at 230 psi for 15 min.

<u>Well History</u>			<u>Expenditures</u>
<u>Interval</u>	<u>Hole Size</u>	<u>Casing</u>	<u>Total to date</u>
<u>0-162'</u>	<u>9-7/8"</u>	<u>7"</u>	<u>Projected</u>
_____	_____	_____	<u>Cost/Ft</u>
_____	_____	_____	<u>Budgeted</u>
_____	_____	_____	_____

DAILY DRILLING REPORT

Project - Hole: (1186-44) 56-29 Date: December 10, 1981
 Location: NW $\frac{1}{4}$ of SE $\frac{1}{4}$ Sec. 29 T 1N R 38 $\frac{1}{2}$ E Spud Date: December 8, 1981
 County, State: Esmeralda, Nevada Day #: 3
 Prog. Depth: 1500' Contractor: Harris-Stevens
 Geologist: John Deymonaz Rig.: Failing 1500

Drilled _____ to _____ ~~XXX~~/Air/ foam injection
 Footage Cut _____ Temp: In _____ Out _____
 Hole Size _____ Wt _____
 Dev. Survey _____ @ _____ Vis _____
 Casing _____ Ph _____

Bits, stabs, etc. & ser. # _____
 Lithology _____
 Additional Report _____

Drilling crew returned at 1300 hrs with auxilliary air compressor.
Constructed wooden cellar and set 6'X6'X5' deep hole; backfilled
around cellar, cut off casing and centered drill rig over hole.

Well History

Interval	Hole Size	Casing
<u>0-162'</u>	<u>9-7/8"</u>	<u>7"</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Expenditures

Total to date _____
 Projected _____
 Cost/Ft _____
 Budgeted _____

DAILY DRILLING REPORT

Project - Hole: (1186-44) 56-29 Date: December 9, 1981
 Location: NW $\frac{1}{4}$ of SE $\frac{1}{4}$ Sec. 29 T 1N R 38 $\frac{1}{2}$ E Spud Date: December 8, 1981
 County, State: Esmeralda, Nevada Day #: 2
 Prog. Depth: 1500' Contractor: Harris-Stevens
 Geologist: John Deymonaz Rig.: Failing 1500

Drilled _____ to _____ MXX/Air/ foam injection
 Footage Cut _____ Temp: In _____ Out _____
 Hole Size _____ Wt _____
 Dev. Survey _____ @ _____ Vis _____
 Casing 7" 0-162' Ph _____
 Bits, stabs, etc. & ser. # _____
 Lithology _____
 Additional Report _____

Set 162' of 7" casing and cemented with approximately 3 yards of
neat cement. Dug mud pits in cellar with backhoe and H & H Equipment
off loaded BOP equipment. Drilling crew left for Delta, Utah at
1400 hrs to pick up auxilliary air compressor and will return about
noon on 12/10/81.

Well History

Interval	Hole Size	Casing
<u>0-162'</u>	<u>9-7/8"</u>	<u>7"</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Expenditures

Total to date _____
 Projected _____
 Cost/Ft _____
 Budgeted _____

DAILY DRILLING REPORT

Project - Hole: (1186-44) 56-29 Date: December 8, 1981

Location: NW $\frac{1}{4}$ of SE $\frac{1}{4}$ Sec. 29 T 1N R 38 $\frac{1}{2}$ E Spud Date: December 8, 1981

County, State: Esmeralda, Nevada Day #: 1

Prog. Depth: 1500' Contractor: Harris-Stevens

Geologist: John Deymonaz Rig.: Failing 1500

Drilled 0' to 162' ~~MXX~~/Air/ foam injection

Footage Cut 162' Temp: In _____ Out _____

Hole Size 9-7/8" Wt _____

Dev. Survey @ Vis _____

Casing _____ Ph _____

Bits, stabs, etc. & ser. # 9-7/8" milltooth soft formation bit

Lithology 0-7': overburden; 7-133': hard silicified siltstone & sandstone;

133-162': dark gray shales & siltstones

Additional Report _____

Met drillers and Vega Trucking in Tonopah at 08:00; drove to location

and unloaded supply truck and set up rig. Spudded hole at 10:30;

completed hole to 162' at 19:30. Minor swelling in soft shale or

fault zone at approximately 133'.

Bernie called and given report: 12/9/81

Well History

<u>Interval</u>	<u>Hole Size</u>	<u>Casing</u>
<u>0-162'</u>	<u>9-7/8"</u>	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Expenditures

Total to date _____
 Projected _____
 Cost/Ft _____
 Budgeted _____