

DEPARTMENTAL CORRESPONDENCE

DATE July 17, 1973

SUBJECT PROGRESS REPORT -- DRILLING (July 9th - 17th)

TO	<u>Mike O'Donnell</u>	DEPT.	<u>Management</u>
FROM	<u>Bert McComack</u>	DEPT.	<u>Drilling</u> <i>No. 60</i>

NO. 1 WELL:

Pump started on bottom at 2:30 a.m., July 9th, pumping 300 gallons/min. Temperature was approximately 85° when started; came up to 206° in two hours; 208° on Monday, July 9th ~~flowing~~ *PUMPING* 200 gallons/min. up to 211° by Monday evening (around 6:30 p.m.). Has remained there since Tuesday, July 10th, flowing 200 gallons/min. Salinity on the 9th was 38,000 ppm; the 10th, 37,000 ppm.

On July 11th through the 14th, temperature remained the same; flow decreased to 150 gallons/min. Salinity on the 11th was 36,000 ppm and 33,000 ppm on the 12th, 13th and 14th.

On July 15th, temperature up to 212°, pumping 250 gallons/min. with no change. At 5:45 p.m., overloaded and kicked pump out. Salinity, 33,000 ppm.

July 16th, kicked off at 7:00 a.m. Temperature, 105°; after three hours back to 210°; eight hours, 212°. Salinity, 33,000 ppm.

July 17th, still pumping 150 gallons/min. at 212°. A lot of steam vapor. Salinity down to 31,000 ppm.

NO. 2 WELL:

Spotted oil around fish; 75 barrels of oil at 4:45 p.m., July 8th. Started out of hole at 1:00 a.m., July 9th. Went in with spear and recovered six joints of wash pipe. Went back in and tried to screw into fish: unsuccessful. Pulled out and went back in with overshot to try to jar fish; wore slips out in overshot. Pulled out and ran small overshot graffel; caught fish and backed off with six joints of drill pipe. Pulled out, laid down same; went in with spear and recovered last joint of wash pipe. Laid down part of joint of wash pipe following in hole to screw in to try to jar fish out. Three joints of drill pipe and 15 drill collars.

July 9th 75 barrels, 60 gallons, scott free at 4:00 p.m. Pulled out at 4:00 a.m., went in with spear.

July 10th Recovered six joints of wash pipe; one still in hole. Went in with overshot to jar on fish.

DEPARTMENTAL CORRESPONDENCE

DATE July 23, 1973

SUBJECT PROGRESS REPORT --- DRILLING (July 18th - 23rd)

To Mike O'Donnell DEPT Management

FROM Bert McComack DEPT Drilling *Mc. 66*

NO. 1 WELL:

July 18th	Shut Down pump.
July 19th	Shut pump down at 7:00 a.m. Temperature, 212°F; pumping 150 gallons/min.
July 20th	Running pressure bombs.
July 21st	Running maximum thermometers.
July 22nd	Rig shut down; laid all hands off but two watchmen.

NO. 2 WELL:

July 18th	Washing over top. Ran tap; no luck, pulled out.
July 19th	Fished out wash pipe and built up shoe on inside. Went in with three joints of wash pipe to try to get through bad spot; washing bottom.
July 20th	Washed over three joints; pulled out and going in with overshot; started out.
July 21st	Pulled out with two collars.
July 22nd	Went in with wash pipe; washing over -- slow progress.
July 23rd	Pulled out wash pipe and went in; couldn't screw in fish. Pulled out and picked up overshot.

DEPARTMENTAL CORRESPONDENCE

DATE July 30, 1973CT PROGRESS REPORT -- DRILLING (July 24th - 30th)Mike O'DonnellDEPT. ManagementBert McComackDEPT. Drilling *ll 101*NO. 1 WELL:

July 24th Ran temperatures -- **306°; 308°; 308°; 313°**

July 25th Shut In

thru 30th " "

NO. 2 WELL:

July 24th Went in with overshot and caught fish but couldn't get back off shot through junk and tool joint. Pulled out to run taper temperatures. Pushed junk through tool joint; pulled out and went back in with overshot; caught fish. Trying to drive junk down with sinker bars.

July 25th Trying to drive junk out of tool joint - no luck. Ordered down-hole jets to try.

July 26th Tried down-hole jets and spuding - no luck. Made 33' bar on tool joint and went in to try to knock out obstruction.

July 27th No luck with homemade tool. Went in with McCulloch to spud on fish - no luck. Pulled out and laid down jars and bumper sub. Went back in with overshot; waiting on 1.90 drill pipe.

July 28th Picked up 1.90 drill pipe and mill - breaking circulation.

July 29th Milled out junk and drill collar. Tried to back off - no luck. Tried to back off overshot - no luck. Pulled out and pushed up bumper sub and jar.

July 30th Went in with bumper sub and jar. Couldn't screw into drill collar. Pulled out and made guide on sub. Went in and recovered drill collar and overshot; pulled out and picked up wash pipe.

FORM 3397 LITHO IN U.S.A.
DEPARTMENTAL CORRESPONDENCE

DATE August 15, 1973

SUBJECT PROGRESS REPORT -- DRILLING (July 31 - August 15)

TO Mike O'Donnell DEPT Management

FROM Bert McComack DEPT Drilling *11:6*

NO. 1 WELL:

July 31

thru Aug. 15 SHUT IN

NO. 2 WELL:

July 31st

Went in with wash pipe, washed over 116'; pulled out and went in with overshot; backed off three collars; pulled out and pushed up wash pipe.

Aug. 1st

Went in with wash pipe, washing over fish - going very slow.

Aug. 2nd

Washed over with 116' of collars; pulled out, laid down wash pipe; pushed up 7½" collars, went in with sub, screwed on fish, jarring on same.

Aug. 3rd

No luck jarring; backed off three drill collars; pulled out, laid down same; pushed up wash pipe, went in washing over at 6,284'.

Aug. 4th

Finished washing over; pulled out and went in with jar; couldn't jar fish loose; backed off three drill collars; pulled out, laid down same; went in with wash pipe, washed approximately 30'.

Aug. 5th

Finished washing over fish at 6,384'; pulled out, laid down wash pipe; went in with sub, screwed in fish; recovered all fish -- THANK THE LORD!

Aug. 6th

Laid down fish and fishing tools; went in with maximum thermometers. Temperatures at 6,375': 202°; 204°; 206°. Went in with bit, reamed to 7,000'. Ran temperatures at 7,300': 260°; 260°; 256°; 258°. Started in with bit again.

Aug. 7th

Washed down to 9,143'; circulating and conditioning hole.

DEPARTMENTAL CORRESPONDENCE

DATE August 20, 1973

SUBJECT PROGRESS REPORT -- DRILLING (August 16 - 20)

To Mike O'Donnell DEP'T Management

FROM Bert McComack DEP'T Drilling

NO. 1 WELL:

August 16th

thru 20th SHUT IN

NO. 2 WELL:

August 16th Drilling in volcanics at 9389'. Bit #14 made 246' in 28½ hours.

August 17th Drilling in volcanics at 9500'. Bit #14 made 317' in 37½ hours; Bit #15 made 40' in 6½ hours.

August 18th Drilling in volcanics at 9690'. Bit #15 made 230' in 30½ hours.

August 19th Drilling in volcanics at 9898'. Bit #15 made 438' in 54 hours.

August 20th 9989' T.D. and tripping for Bit #16. Bit #15 made 529' in 68½ hours; drilling in 75% red volcanics.

DEPARTMENTAL CORRESPONDENCE

DATE August 31, 1973

SUBJECT PROGRESS REPORT -- DRILLING (August 21 - 31)

TO Mike O'Donnell DEP'T Management
 FROM Bert McComack DEP'T Drilling *file 605*

NO. 1 WELL:

August 21st
 thru 31st SHUT IN

NO. 2 WELL:

August 21st Drilling in volcanics at 10,125'. Bit #16 made 136' in 22 hours.

August 22nd Drilling in volcanics at 10,288'. Bit #16 made 299' in 45 1/2 hours.

August 23rd 10,454' T.D.; Circulating in volcanics. Bit #16 made 465' in 66 3/4 hours.

~~August 24th~~ 10,454' T.D.; laid down 4 1/2" drill pipe to 5,289'; running temperature surveys - At 7,500', 12:00 A.M.: 224°; 230°; 230°; 236°. At 9,140', 3:00 A.M.: 254°; 254°; 252°; 260°. At 9,963', 6:30 A.M.: 274°; 278°; 278° 280°.

August 25th 10,454' T.D., running temperatures - At 7,500', 3:00 P.M.: 236°; 236°; 236°; 242°. At 9,140', 6:00 P.M.: 268°; 270°; 270°; 278°. At 10,450', 10:30 P.M.: 309°; 309°; 312°; 316°.

August 26th 10,454' T.D., running temperatures - At 10,450', 11:00 A.M.: 318°; 320°; 320°; 326°. At 3:00 P.M.: 322°; 322°; 322°; 330°.

August 27th 10,454' T.D.; temperatures would not go below 6,125' - mud setting up.

August 28th 10,454' T.D.; Waiting on casing, repairing on rig.

August 29th Same As Above

August 30th Same As Above.

August 31st 10,454' T.D.; received casing at 1:00 P.M. on the 30th. Waiting to get drum out of machine shop.

DEPARTMENTAL CORRESPONDENCE

DATE September 10, 1973

SUBJECT PROGRESS REPORT --- DRILLING (Sept. 1 - 9)

BY Mike O'Donnell DEPT Management

FROM Bert McComack DEPT Drilling

NO. 1 WELL:

Sept. 1st

thru. 9th

SHUT IN

NO. 2 WELL:

Sept. 1st

WOC; Waiting on rig repair.

Sept. 2nd

Same as Above

Sept. 3rd

Received cement on location at 1:00 P.M. on 2nd; working on rig. Went in hole with drill pipe; conditioning hole to run casing.

Sept. 4th

Pulled out of hole; rigging up to run 7" casing.

~~Sept. 5th~~

Running 7" casing to 4,979'; set hanger at 5,253'; shoe at 10,229'; ran 2,378' of blanks and 2,473' of slotted. Cemented with 250 sacks of Class G + 30% silica flour, 5/10 of 1% D-13 retarder, 3/4% of D-65 TIC; job completed at 4:30 p.m.

Sept. 6th

10,454 T.D.; WOC.

Sept. 7th

Checked liner with 1,000 lbs. of pressure for 30 minutes; o.k. - went in hole with drill pipe, washing slotted pipe.

Sept. 8th

Laid down drill pipe.

Sept. 9th

Rigged up to run Reda Pump.

DEPARTMENTAL CORRESPONDENCE

DATE September 17, 1973

SUBJECT PROGRESS REPORT -- DRILLING (Sept. 10 - 13, 1973)

TO Mike O'Donnell DEPT Management

FROM Bert McComack DEPT Drilling

NO. 1 WELL:

Sept. 10th

thru 13th

SHUT IN

NO. 2 WELL:

Sept. 10th

Running Reda Pump. Chloride: 1,500 ppm;
Temperature: 166°F.

Sept. 11th

Pumping well at approximately 150 gallons
per minute. Chloride: 9,000 ppm; Tempera-
ture: 173°F.

Sept. 12th

Pumping well. Chloride: 17,000 ppm;
Temperature: 184°F.

Sept. 13th

Pumping well. Chloride: 17,000 ppm;
Temperature: 189°F.

DEPARTMENTAL CORRESPONDENCE

DATE September 26, 1973SUBJECT PROGRESS REPORT -- DRILLING (Sept. 14 - 20, 1973)NAME Mike O'DonnellDEPT. ManagementNAME Bert McComackDEPT. DrillingNO. 1 WELL:

Sept. 14th

thru 20th

SHUT IN

NO. 2 WELL:

Sept. 14th

Pumping with Reda Pump approximately 120 - 150 Gallons per minute. Chloride: 18,000 (at 9:00 A.M.); PH: 6.8; Calcium Magnesium: Saturated; Temperature: 189°.

Laid water line from #2 well to #1 reserve pit.

Sept. 15th

Pumping well. Chloride: 16,000; PH: 6.8; Calcium Magnesium: Saturated; Temperature: 190° (at 7:00 A.M.).

Salt Content check for Chloride: 17,500; PH: 6.8; Calcium Magnesium: Saturated; Temperature: 190° (at 10:00 P.M.).

Sept. 16th

Pumping well. Chloride: 18,000; PH: 6.1; Calcium Magnesium: Saturated; Temperature: 190° (at 7:00 A.M.).

Sept. 17th

Pumping well. Chloride: 17,000 (at 8:30 A.M.); PH: 6.4; Calcium Magnesium: Saturated; Temperature: 191° (at 7:00 A.M.).

Sept. 18th

Pumping well. Chloride: 18,000; PH: 6.4; Calcium Magnesium: Saturated; Temperature: 191.5° (at 7:00 A.M.) - 192° (at 9:00 P.M.).

Sept. 19th

Pumping water to 6:00 A.M.; Shut down pump to pull same. Temperature: 192° (at 6:00 A.M.).

Sept. 20th

Rigged up to pull Reda Pump. 9:00 A.M. - 5:00 P.M., pulled Reda Pump and serviced same. Rigged up starting temperature surveys.

DEPARTMENTAL CORRESPONDENCE

DATE September 28, 1973

SUBJECT PROGRESS REPORT --- DRILLING (Sept. 21 - 28th, 1973)

TO Mike O'Donnell DEPT Management

FROM Bert McComack DEPT Drilling *th 10/15*

NO. 1 WELL:

Sept. 21st

thru 28th

SHUT IN

NO. 2 WELL:

Sept. 21st

thru 28th

Running temperature surveys at given intervals from 10,454' up the hole.