

DEPARTMENTAL CORRESPONDENCE

DATE May 14, 1973

SUBJECT DRILLING REPORT -- No. 2 Well

To Mike O'Donnell DEPT Management

FROM Bert McComack DEPT Drilling

REPORTED AS OF 7:00 a.m.

EACH MORNING

MONDAY, MAY 14, 1973

Drilling at 217' T.D., 17" hole.

Reaming at 100' and reaming at 100' running to 26" hole at 100'.

Spudded at 2:00 p.m., May 13th, 1973.

TUESDAY, MAY 15, 1973

217' T.D., 26" hole. Ran 4 joints of 20", 91 lb. casing set at 197 K.B.

Cemented with 350 sacks of regular, 2% calcium chloride. Job completed at 9:00 p.m., May 14th; good return on cement.

WEDNESDAY, MAY 16, 1973

240' T.D., drilling 17½" hole, Bit #1. 60' of cement in pipe. Started under surface at 1:00 a.m.

THURSDAY, MAY 17, 1973

1219' T.D., Bit #1 made 1219' in 26½ hours.

DEPARTMENTAL CORRESPONDENCE

DATE May 14, 1973

SUBJECT DRILLING REPORT -- No. 2 Well

To Mike O'Donnell DEPT. Management

FROM Bert McComack DEPT. Drilling

REPORTED AS OF 7:00 a.m.

EACH MORNING

MONDAY, MAY 14, 1973

Drilling at 217' T.D., 17" hole.

Reaming at 100' and reaming at 100' running to 26" hole at 100'.

Spudded at 2:00 p.m., May 13th, 1973.

RECEIVED

MAY 16 1973

DEPARTMENTAL CORRESPONDENCE

DATE May 11, 1973

SUBJECT DRILLING REPORT -- No. 2 Well

TO Mike O'Donnell DEP'T Management

FROM Bert McComack DEP'T Drilling

REPORTED AS OF 7:00 a.m.

EACH MORNING

FRIDAY, MAY 11, 1973

Rigging up; on location at 4:00 p.m.

SATURDAY, MAY 12, 1973

Rigging up. Set 22' of 30" conductor pipe.

SUNDAY, MAY 13, 1973

Rigging up.

DEPARTMENTAL CORRESPONDENCE

DATE May 15, 1973

SUBJECT DRILLING REPORT -- No. 2 Well

To Mike O'Donnell DEPT. Management

FROM Bert McComack DEPT. Drilling

REPORTED AS 7:00 a.m.

EACH MORNING

TUESDAY, MAY 15, 1973

217' T.D., 26" hole. Ran 4 joints of 20", 91 lb. casing set at 197 K.B.

Cemented with 350 sacks of regular, 2% calcium chloride. Job completed at 9:00 p.m., May 14th; good return on cement.

RECEIVED

MAY 16 1973

DEPARTMENTAL CORRESPONDENCE

DATE May 16, 1973

SUBJECT DRILLING REPORT

To Mike O'Donnell DEPT Management

FROM Bert McComack DEPT Drilling

REPORTED AS OF 7:00 a.m.

EACH MORNING

WEDNESDAY, MAY 16, 1973

240' T.D., drilling 17½" hole, Bit #1.
60' of cement in pipe. Started under
surface at 1:00 a.m.

RECEIVED

MAY 16 1973

O. O. CONS. COMM.

DEPARTMENTAL CORRESPONDENCE

DATE May 18, 1973SUBJECT DRILLING REPORT - No. 2To Mike O'Donnell DEP'T ManagementFROM Bert McComack DEP'T Drilling

REPORTED AS OF 7:00 a.m.

EACH MORNING

FRIDAY, MAY 18, 1973

1877' T.D., drilling in conglomerate, anhydrite and clay. Bit #2 made 1877' in 46 3/4 hrs.

Totco at 1202', 1/4°; 1728', 1/4°. Everything going fine.

SATURDAY, MAY 19, 1973

2139' T.D., drilling in clay and anhydrite. Bit #3 made 223' in 7 3/4 hrs.- 17 1/2" hole.

Totco at 1728', 1/4°.

SUNDAY, MAY 20, 1973

2381' T.D. Bit #3 made 465' in 25 3/4 hrs. drilling 17 1/2" hole.

DEPARTMENTAL CORRESPONDENCE

DATE May 21, 1973SUBJECT DRILLING REPORT - No. 2 WellTo Mike O'Donnell DEP'T ManagementFROM Bert McComack DEP'T Drilling

REPORTED AS OF 7:00 a.m.

EACH MORNING

MONDAY, MAY 21, 1973

2717' T.D. Circulating to run 13 3/8" casing.

At 2650', fluid count was 136,000 ppm.

TUESDAY, MAY 22, 1973

2704' T.D. running 13 3/8" casing. 59 joints of seal lock, 61 lb. K-55, R-3; Ran 9 joints of Butress 72-lb. on top.

Bit #3 made 799' in 44½ hrs. Plugged down at 4:45 a.m., good return on cement.

WEDNESDAY, MAY 23, 1973

2715' T.D. WOC; pipe set at 2704', 13 3/8" pipe.

Cemented with 1700 sacks of regular cement, 30% silica flour. Plugged down at 4:50 a.m., May 22nd.

DEPARTMENTAL CORRESPONDENCE

DATE May 24, 1973SUBJECT DRILLING REPORT - No. 2 WellTO Mike O'Donnell DEPT ManagementFROM Bert McComack DEPT Drilling

REPORTED AS OF 7:00 a.m.

EACH MORNING

THURSDAY, MAY 24, 1973

2715' T.D. WOC and nipping up.

FRIDAY, MAY 25, 1973

Tightening bolts and stopped all leaks.

2780' T.D. drilling with Bit #4.

Tested blow-out preventors (B.O.P.) with
1,000 lbs. for 15 minutes.SATURDAY, MAY 26, 19733344' T.D. Tripping with Bit #4 making
629' in 24½ hrs.

Totco at 3334', ¼ of 1°.

DEPARTMENTAL CORRESPONDENCE

DATE May 27, 1973

SUBJECT DRILLING REPORT -- No. 2 Well

BY Mike O'Donnell DEP'T Management

FROM Bert McComack DEP'T Drilling

REPORTED AS OF 7:00 a.m.

EACH MORNING

SUNDAY, MAY 27, 1973

4048' T.D., drilling in conglomerate and clay. Bit # 5 made 704' in 19½ hours.

MONDAY, MAY 28, 1973

4686' T.D. and tripping.

Bit #15 made 1342' in 40½ hours. Mud contained alot of gas at 4300'. Drilling in conglomerate and clay with some streaks of basalt.

TUESDAY, MAY 29, 1973

4767' T.D. drilling in conglomerate and clay.

Bit #6 made 81' in 2 hours; temperature, 116°.

DEPARTMENTAL CORRESPONDENCE

DATE May 30, 1973

SUBJECT DRILLING REPORT - No. 2 Well

To Mike O'Donnell DEP'T. Management

FROM Bert McComack DEP'T. Drilling

REPORTED AS OF 7:00 a.m.

EACH MORNING

WEDNESDAY, MAY 30, 1973

5401' T.D. Bit #6 made 715' in 25' hours.

Approximate volcanic top was at 5100'.

THURSDAY, MAY 31, 1973

5401' T.D. Circulating and conditioning hole to run pipe. Losing some mud. Made short trip.

FRIDAY, JUNE 1, 1973

5401' T.D. Circulating and waiting on 9 5/8" casing.

DEPARTMENTAL CORRESPONDENCE

DATE June 2, 1973

SUBJECT DRILLING REPORT - No. 2 Well

TO Mike O'Donnell DEP'T Management

FROM Bert McComack DEP'T Drilling

REPORTED AS OF 7:00 a.m.

EACH MORNING

SATURDAY, JUNE 2, 1973

5401' T.D. WOC.

Ran 79 joints, range 3, 9 5/8" N-80, 47 lb. casing. Set at 5400'; liner hung at 2537'.

Cemented with 813 sacks of regular cement, 30% silica flour, 3/10 of 1% D-13 retarder.

Plugged down at 10:00 p.m., June 1st.

SUNDAY, JUNE 3, 1973

Went in with 12 1/4" bit; no cement job. Checked liner; pulled out and went in with 7 7/8" bit to check cement in 9 5/8" pipe at approximately 65' of cement. Bottom of liner looked like good cement job.

DEPARTMENTAL CORRESPONDENCE

DATE June 4, 1973

SUBJECT DRILLING REPORT - No. 2 Well

TO Mike O'Donnell DEPT Management

FROM Bert McComack DEPT Drilling

REPORTED AS OF 7:00 a.m.

EACH MORNING

MONDAY, JUNE 4, 1973

Started in hole with Baker Bridge Plug to squeeze top of liner.

Plug set at 90' from surface.

TUESDAY, JUNE 5, 1973

5401' T.D.; WOC.

Set Baker Bridge Plug at 2510'. Squeezed with 200 sacks of regular cement, 30% silica flour.

Job completed at 3:00 a.m. this morning -- looks good.

WEDNESDAY, JUNE 6, 1973

5401' T.D. Went in with Bit #7 (12 1/4") drilling Baker Bridge Plug; pulled out and went back in with Bit #8 (8 1/2"). Washed out to 70' from bottom.

Good cement and squeeze job.

DEPARTMENTAL CORRESPONDENCE

DATE June 7, 1973SUBJECT DRILLING REPORT - No. 2 WellTo Mike O'Donnell DEP'T ManagementFROM Bert McComack DEP'T Drilling

REPORTED AS OF 7:00 a.m.

EACH MORNING

THURSDAY, JUNE 7, 1973

6255' T.D.; tripping in volcanics.

Bit #8 made 854' in 19½ hours.

FRIDAY, JUNE 8, 1973

At 4:00 a.m., 7,000' T.D.; circulating samples.

Bit #9 made 778' in 14 3/4 hours.

SATURDAY, JUNE 9, 1973

7000' T.D., waiting on logging truck, circulating.

SUNDAY, JUNE 10, 1973

7000' T.D., waiting on logging truck.

DEPARTMENTAL CORRESPONDENCE

DATE June 11, 1973SUBJECT DRILLING REPORT - No. 2 WellTo Mike O'Donnell DEP'T ManagementFROM Bert McComack DEP'T Drilling

REPORTED AS OF 7:00 a.m.

EACH MORNING

MONDAY, JUNE 11, 1973

7000' T.D., waiting on logging truck.

TUESDAY, JUNE 12, 19737023' T.D., drilling in volcanics
and running logs.Went back in hole with Bit #9; on
bottom at 6:30 a.m.

Bit #9 made 778' in 15 1/4 hours.

WEDNESDAY, JUNE 13, 19737271' T.D., drilling in volcanics;
waiting on pump parts.THURSDAY, JUNE 14, 19737694' T.D., drilling in volcanics and
circulating samples to come out of hole
for new bit.

Bit #9 made 1439' in 37 3/4 hours.

DEPARTMENTAL CORRESPONDENCE

DATE June 15, 1973SUBJECT DRILLING REPORT - No. 2 WellTo Mike O'Donnell DEPT ManagementFROM Bert McComack DEPT Drilling

REPORTED AS OF 7:00 a.m.

EACH MORNING

FRIDAY, JUNE 15, 1973

7694' T.D.; fishing for cone.

SATURDAY, JUNE 16, 19737890' T.D. Circulating samples
and cleaning hole to core.

Bit #10 made 191' in 13 3/4 hours.

SUNDAY, JUNE 17, 19737918' T.D. off core hole; collected
28' of core. 100% recovery. Going
in with Bit #11.MONDAY, JUNE 18, 19738314' T.D. Finished tripping with
Bit #11. Reamed core hole. Drilling
in volcanics.

Bit #11 made 424' in 18 1/2 hours.

DEPARTMENTAL CORRESPONDENCE

DATE June 19, 1973

SUBJECT DRILLING REPORT - No. 2 Well

To Mike O'Donnell DEPT. Management

FROM Bert McComack DEPT. Drilling

REPORTED AS OF 7:00 a.m.

EACH MORNING

TUESDAY, JUNE 19, 1973

8570' T.D. Drilling in volcanics
on bottom with Bit #12 and stuck.
Pipe free at 7:20 a.m.

Bit #11 made 652' in 29 hours.

WEDNESDAY, JUNE 20, 1973

8931 T.D. Drilling in volcanics.

Bit #12 made 361' in 23 hours.

THURSDAY, JUNE 21, 1973

9143' T.D., drilling in volcanics.

Pulled out of hole to run tempera-
ture and logs.

Bit #12 made 573' in 34 hours.

DEPARTMENTAL CORRESPONDENCE

DATE July 17, 1973SUBJECT PROGRESS REPORT -- DRILLING (July 9th - 17th)

TO Mike O'Donnell DEP'T } Management
 FROM Bert McComack DEP'T } Drilling

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.

Progress Report
July 17, 1973
Page 2

- July 11th No luck jarring; went in and recovered last joint of wash pipe.
- July 12th Went in to screw in; no luck. Pulled out and went in with overshot; caught same and jarring.
- July 13th Backed off three joints of drill pipe; pulled out and left 15 drill collars still in hole.
- July 14th Went in with wash pipe. Started out of hole to look at shoe.
- July 15th Went in and tried to screw in collar; no luck, pulled out.
- July 16th Went in with overshot; couldn't jar loose. Pulled out, left guide and graffel on fish.
- July 17th Went in with small wash pipe to mill over; jack pulled out and picked up 8 1/8" wash pipe.

DEPARTMENTAL CORRESPONDENCE

DATE July 23, 1973

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

To Mike O'Donnell DEP'T Management

FROM Bert McComack DEP'T Drilling

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, 1973SUBJECT PROGRESS REPORT -- DRILLING (July 24th - 30th)To Mike O'Donnell DEPT. ManagementFROM Bert McComack DEPT. DrillingNO. 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.

DEPARTMENTAL CORRESPONDENCE

DATE August 15, 1973SUBJECT PROGRESS REPORT -- DRILLING (July 31 - August 15)To Mike O'Donnell DEP'T ManagementFROM Bert McComack DEP'T DrillingNO. 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.

Progress Report - Drilling
August 15, 1973
Page 2

- Aug. 8th Pulled out trying to run temperature survey; mud dehydrated - lead weight, wouldn't go (neither would Totco); went back in to condition mud.
- Aug. 9th Pulled out to run temperatures at 9:00 P.M.: 240°; 240°; 240°; 246°. 2:00 A.M.: 246°; 250°; 253°; 258°.
- Aug. 10th Ran temperatures at 10:00 A.M.: 276°; 276°; 268°; 274°. 6:00 P.M.: 278°; 278°; 278°; 280°. 10:00 P.M.: 283°; 284°; 277°; 284°. 7:00 A.M.: 288°; 285°; 285°; 286°.
- Aug. 11th Ran temperatures at 6:00 P.M.: 286°; 286°; 285°; 290°. 1:00 A.M.: 292°; 292°; 286°; 286°.
- Aug. 12th Ran temperatures at 11:00 A.M.: 294°; 294°; 294°; 292°.
- Aug. 13th Running temperatures at 6,500': 216°; 218°; 220°; 220°. 7,500': 254°; 254°; 258°; 258°.
- Aug. 14th Running temperatures at 11:00 P.M., 9,100': 295°; 296°; 290°.
- Aug. 15th Went in hole with bit; on bottom at 4:00 A.M., 9,181', drilling with Bit #15 in volcanics - some fractures. Also ran temperatures at 11:00 A.M., Tuesday: 296°; 296°; 296°; 298°.

DEPARTMENTAL CORRESPONDENCE

DATE August 20, 1973

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

TO Mike O'Donnell DEPT Management

FROM Bert McComack DEPT 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 DEPT Management

FROM Bert McComack DEPT Drilling

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, 1

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

TO 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 sack 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, 1973

SUBJECT PROGRESS REPORT -- DRILLING (Sept. 14 - 20, 1973)

TO Mike O'Donnell DEPT Management

FROM Bert McComack DEPT Drilling

NO. 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

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.