DAILY DRILLING DEPORT

Humble Oil & Refining Company Federal-Leonard Oil Co. No. 1.

- 9-23-44 11825 to 11846 At 11820' hole off 2-1/4 deg. Gered from 11825-11840', receivery 4-1/2' lime, some eil, me gas. Now going in hole with core barrel.
- 9-25-44 11840 to 11858 Cored from 11840' to 11858' recovered 2-1/2' no oil show but fair Odor of gas. Pulled & stands and found top of water blanket. Pulled 3 stands with fluid and well unloaded. Pulled 33 dry stands and found top of fluid again. Pulled 27 stands with water blanket saturated with ell. Pulled 5 stands with heavy and saturated with oil and gas sut. Rem Malliburton drill stan tester with 2 packers and 4140' of water blanket. Bottom packer set at 11810'. Packer held for 20 minutes.
- 9-26-44 11858 to 11870 Now pulling drill pipe preparing to take Halliburton drill stem test.
- 9-27-44 11870 to 11876 Ran Halliburton drill sten tested with 45 stands of water blankst. Tested formation from 11800-11870', tool open one hour. Recevered 66 stands of water blanket and gas cut mud showing high gravity cil. Hell unloaded at intervals all the way coming out of hole.
- 9-28-44 11876 to 11891 Cored from 11876-11887* redevered 1'. Cored from 11870-11891'. Now coming out of hele with core.
- 9-29-44 11891 to 11891 Recovered 2' of core taken from 11870-11891'. Ran Halliburton drill stem tester with 45 stands of water blankst. Tool open 39 minutes. Blanket hit surface in 34 minutes and unleaded in 2 minutes. Well flowed 3 minutes through 5/5" bettom hole shake at an estimated rate of 10,000 MSF gas per day and 480 barrels 47.4 gravity oil. Well flowed 1 hour after tool closed. Recovered 788' of oil from drill stem. Hydre static and pressure 53254. Flowing bottom hole pressure 38204. Shut-in bottom hole pressure 50004. GOR 20,000 - 1.
- 9-30-44 11891 to 11892 Made 1' rotating time 3-1/2 hours. Now going in hole with new bit.
- 10-1-44 & 11892 to 11913 Going in hale with core barrel. Cored from 11901-11913 recovered 1'. 10-2-44 Fan Halliburton caliper. Now going in hole with testing tool.
- 10-3-44 11913 to 11913 Ran Halliburbon drill ston toster with 1/2" bottom hole choke and 45 stands of water blanket. Water blanket hit surface in 27 minutes. For the 1/2 hour test well produced at rate of 1648 bbls., 50 gravity oil per day with 30% MBF gas. 46R 1660. Recovered 273' of oil and 7917' and in drill pape. Facker failed in 30 minutes.
- 10-4-44 11913 to 11938 Drilling.
- 10-5-44 11938 to 11948 Pulling drill pipe to take drill stem test.
- 10-6-44 11948 to 11948 Ran Halliburton drill stan tester and tested formation from 11918-11948'. Packer held 3 minutes and seat gave away. Recovered 13 stands of gas out mult showing oil. Now circulating and conditioning hele.

Sheet #2

10-23-44

10-7-44 11948 to 11948 Ready to go in hele to make drill stom test.

10-8-44 & 11948 to 11953 Ran Halliburton drill stem tester with 3/8" bottom hole shake 10-9-44 and 45 stands water blanket to test from 11890' to 11948'. Toel was open 1 hr. 40 minutes. Water blanket hit surface in 41 minutes. Tested well 40 minutes at rate of 51.6 bbls. PLO per hr. and 1656 MCF gas per day. GOR 1235. Recovered 910' oil in drill pipe. Now coring.

- 10-10-44 11953 to 11968 New preparing to run drill stem test.
- 10-11-44 11968 to 11968 Ran drill stem test to 6" packer with 3/8" choke and 45 stands water blanket. Tool open 2 hrs. Recovered 460' sulphar water.
- 10-12-44 11968 to 11968 Circulating and conditioning hole.

10-13-44 11968 to 11969 Now eirculating and conditioning mud.

10-14-44 11969 to 11969 Circulating and conditioning and 24 hours.

10-15-44 & 11969 to 11969 Ran and set 5-1/2" casing at 11963.63', 297 joints with 810 sacks coment. NOC.

- 10-17-44 11969 to 11969 WOC.
- 10-18-44 11969 to 11969 Ran Halliburton temp. mirvey and found top of cement in casing at 9371' or 2557' of cement above float collar.
- 19-19-44 11969 to 11969 Tested 5-1/2" casing with 1800# mud-laden fluid for 15 minutes.
- 10-20-44 11969 to 11969 Finished mippling up. Installed BOP. Tested wellhead connection with 5000# cold water pressure.
- 10-21-44 11969 to 11969 Picking up flush joint drill pipe.

10-22-44 & 11969 to 11969 Drilled ement from 9371' to 11507'.

- 10-24-44 11969 to 11969 Conditioning mid and preparing to gan perforate.
- 10-25-44 11969 to 11969 Gun perforated from 11890 to 11928'. Now proparing to run tubing.

10-26-44 11969 to 11969 Ran 392 jeight of 2" upset tubing. Footage will be shown later. Installed Xmas tree. Now replacing and with water.

- 10-27-44 11969 to 11969 2" tubing set as follows: Performted nipple 3.81, 392 joints of 2" USE at 11905'. Total 11909.17', rotary to bradenhead 11.33. Tubing set at 11920.50'. Spaced off bottom 6.50. Total depth 11929: Well failed to flow when and was replaced with water. Now replaced water with cil.
- 10-28-44 11969 to 11969 Replaced water with oil, well failed to flow. Circulated oil for 12 hrs. and well failed to flow. Swabbed 6 hrs., lowered fluid 2000'. Well gave no indication of flowing. Consed swabbing for 2 hrs., fluid did not rise in hole.

Sheet #3

•

. **خپر**

10-29-44 a 10-30-44	11969 to 11969	Fluid rose 750 ⁴ ever night. Sumbbed well 9 hrs. fluid dropped to 3700'. Shut in. 10-30-44. Resumed sumbbing at 3700'. Swabbed wash water and circulated oil with some gas for 9 hrs. Fluid standing at 6000' after sumbbing. Now proparing to acidize
10-31-44	11969 to 11969	While circulating cil in hole well started flowing. Flowed for 20 minutes until well shut in. Built up 1000# pressure but failed to flow when opened. Now preparing to treat with acid.
11-1-44	11969 to 11969	Circulated hole with eil. Spotted 1000 gallons Dowell mmd acid above performations in 5-1/2" casing. Pumped eil in easing and washed acid past ferformations. Pressured up well to 1100/. Broke to 900/. Washed 10 bbls. eil through performated section. Could not pressure above 1000/. Unleaded hole. New flowing at rate of 25 bbls. eil per hr. en 3/4" choke. Gas volume 1300 mpr.
11-2-44		Flowing on 2 -43/64* choke. 17 bbls. oil per hr. Cusing pressure 900#, tubing pressure 500#. 2% PShN.
11-3-44		Killed well and new circulating. Mud weight 9.2#.
11-4-44		Pulled tubing and removed Xmas tree. Now gun perforating casing. Should be through by 9 AM 11-4-44.
11-6-44		Gun performted ensing from 11890-11928' with 2 shots per ft. Ran 2" tubing spaced at 11920'. Replaced and with cil but well will not flow.
11-7-44		Londod hole with eil. Treated with 2000 gals. Max. pressure 2000#, Minisum pressure 1700#. Fumped 800 gals. into formation after break at rule of 1.4 bbls. per minute. Well unleaded and is cleaning into pits. After 6 hrs. flow well tested at rule of 32 bbls. per hR. en 3/4" choke. 2.4% 28 and acid water. Gas volume 1872 MCF per day, GOR 2437. Tubing pressure 250#, casing pressure ef.
11-8-44		Flowed 15 bbls. per hr. for last 12 hrs. Tubing pressure 400%, casing pressure 1100% on 3/4" choke. MAN 2.8%.
11-9-44		Flowed well 24 hrs. Flowing at rate of 15 bbls. fluid per hr. Shekeout varied from 205 water to PLO. Last shekeout 7/10 of 1% water flowing.
18-10-44		Well flowing at rate of 14 bbls. per hr. 11% water. Tubing pressure 200#, easing pressure 850#.
11-11-44		Touring down rig.
11-11-44 + 11-12-44		Well shut in. Shut in casing pressure 3100%, tubing pressure 2200%. Moving out contract rig.
11-13-44		Same as 11-11 and 12
11-14-44		

Sheet #4

11-15-44	Tearing down dowrick.
11-16-44	Touring down Fig. Well shut in.
11-17-44	Flowed 12 hrs. on 5/32" choke. Made 200 bbls. oil and 10 bbls. water. Flowing tubing pressure 11#, easing pressure 2000#, what in Unbing pressure 2000# and easing pressure 3100#.
11-18-44	Flowed well 24 hrs., made 296.87 bbls. PLO on 5/32" cheke. Tubing pressure 1050#, easing pressure 2050#.
11-19-44 and 11-20-44	Flowed well 24 hrs. on 3/32" choke. Made 189.24 bbls. fluid. Shakeout FLG. Tabing pressure 1300#, casing pressure 2300#.

.

8

÷,

.