

(SUBMIT IN TRIPLICATE)

Land Office Artesia, N. M.

Lease No. 10-030175

Unit _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Federal Leonard Oil company

APPROVED

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....	SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF REDRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....	<input checked="" type="checkbox"/>
NOTICE OF INTENTION TO ABANDON WELL.....		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Midland, Texas, November 23, 19 44

Well No. 1 is located 660 ft. from N line and 660 ft. from E line of sec. 12

SW/4 of SW/4 of Sec. 12 26-S 37-E
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

Rhodes

(Field)

Lea County

(County or Subdivision)

New Mexico

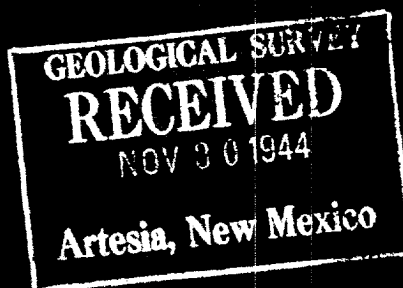
(State or Territory)

The elevation of the derrick floor above sea level is 3013 ft. Est.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

See attachment



I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Humble Oil & Refining Company

Address Box 1600

Midland, Texas

By

Asst. Division Superintendent

DAILY DRILLING REPORT

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

9-23-44	11825 to 11846	At 11820' hole off 2-1/4 deg. Cored from 11825-11840', recovery 4-1/2' lime, some oil, no 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 61 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 oil. Pulled 5 stands with heavy mud saturated with oil and gas cut. Ran Halliburton drill stem 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 stem tested with 45 stands of water blanket. Tested formation from 11800-11870', tool open one hour. Recovered 68 stands of water blanket and gas cut mud showing high gravity oil. Well unloaded at intervals all the way coming out of hole.
9-28-44	11876 to 11891	Cored from 11876-11887' recovered 1'. Cored from 11870-11891'. Now coming out of hole 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 blanket. Tool open 39 minutes. Blanket hit surface in 34 minutes and unloaded in 2 minutes. Well flowed 3 minutes through 5/8" bottom hole choke at an estimated rate of 10,000 MCF gas per day and 480 barrels 47.4 gravity oil. Well flowed 1 hour after tool closed. Recovered 788' of oil from drill stem. Hydro static mud pressure 6325#. Flowing bottom hole pressure 3820#. Shut-in bottom hole pressure 5000#. 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 & 10-2-44	11892 to 11913	Going in hole with core barrel. Cored from 11901-11913 recovered 1'. Ran Halliburton caliper. Now going in hole with testing tool.
10-3-44	11913 to 11913	Ran Halliburton drill stem tester 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 1848 bbls., 50 gravity oil per day with 3072 MCF gas. GOR 1660. Recovered 273' of oil and 7917' mud in drill pipe. Packer 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 stem tester and tested formation from 11912-11948'. Packer held 3 minutes and seat gave away. Recovered 13 stands of gas cut mud showing oil. Now circulating and conditioning hole.

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Sheet #3

10-29-44 & 10-30-44	11969 to 11969	Fluid rose 750' over night. Swabbed well 9 hrs. fluid dropped to 3700'. Shut in. 10-30-44. Resumed swabbing at 3700'. Swabbed wash water and circulated oil with some gas for 9 hrs. fluid standing at 6000' after swabbing. Now preparing to acidize.
10-31-44	11969 to 11969	While circulating oil 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 oil. Spotted 1000 gallons Lowell muc acid above perforations in 5-1/8" casing. Pumped oil in casing and washed acid past perforations. Pressured up well to 1100#. Broke to 900#. Washed 10 bbls. oil through perforated section. Could not pressure above 1000#. Unloaded hole. Now flowing at rate of 25 bbls. oil per hr. on 3/4" choke. Gas volume 1300 MCF.
11-2-44		Flowing on 2 -23/64" choke. 17 bbls. oil per hr. Casing pressure 900#, tubing pressure 500#. 2 1/2 B&W.
11-3-44		Filled well and now circulating. Mud weight 9.2#.
11-4-44		Pulled tubing and removed gas tree. Now gun perforating casing. Should be through by 9 AM 11-4-44.
11-6-44		Gun perforated casing from 11890-11928' with 2 shots per ft. Ran 2" tubing spaced at 11920'. Replaced mud with oil but well will not flow.
11-7-44		Loaded hole with oil. Treated with 2000 gals. Max. pressure 2000#, minimum pressure 1700#. Pumped 800 gals. into formation after break at rate of 1.4 bbls. per minute. Well unloaded and is cleaning into pits. After 6 hrs. flow well tested at rate of 32 bbls. per hr. on 3/4" choke. 2.4% BS and acid water. Gas volume 1872 MCF per day, GOR 2437. Tubing pressure 250#, casing pressure 0#.
11-8-44		Flowed 15 bbls. per hr. for last 12 hrs. Tubing pressure 400#, casing pressure 1100# on 3/4" choke. BS 2.8%.
11-9-44		Flowed well 24 hrs. flowing at rate of 15 bbls. fluid per hr. Shakeout varied from 20% water to 10%. Last shakeout 7/10 of 1% water flowing.
10-10-44		Well flowing at rate of 14 bbls. per hr. 11% water. Tubing pressure 200#, casing pressure 350#.
11-11-44		Pearing 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 derrick.

11-16-44

Tearing down rig. 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#, casing pressure 2000#, shut in tubing pressure 2800# and casing pressure 3100#.

11-18-44

Flowed well 24 hrs., made 296.87 bbls. FLO on 5/32" choke. Tubing pressure 1050#, casing pressure 2050#.

11-19-44 and 11-20-44

Flowed well 24 hrs. on 3/32" choke. Made 189.24 bbls. fluid. Shakeout FLO. Tubing pressure 1300#, casing pressure 2300#.