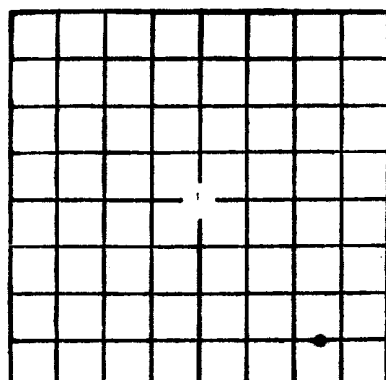


ILLEGIBLE

 U. S. LAND OFFICE Las Cruces
 SERIAL NUMBER 65741
 LEASE OR PERMIT TO PROSPECT _____


LOCATE WELL CORRECTLY

 UNITED STATES
 DEPARTMENT OF THE INTERIOR
 GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

 Company Humble Oil & Refining Co. Address Houston, Texas
 Lessor or Tract Federal Reserve Field Burles State New Mexico
 Well No. 4 Sec. 26 TOS R4E Meridian _____ County Lea
 Location 440' ft. {N.} of S. Line and 340' ft. {E.} of E. Line of section 26 Elevation 3445
 {S.} {W.} (Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed _____

Date 2-22-33Title District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling March 3, 1933 Finished drilling March 19, 1933

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

 No. 1, from 3730 to 3850 No. 4, from _____ to _____
 No. 2, from _____ to _____ No. 5, from _____ to _____
 No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

 No. 1, from _____ to _____ No. 3, from _____ to _____
 No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From	To	
<u>10-5/4"</u>	<u>40#</u>	<u>8</u>	<u>SS</u>	<u>150'</u>	<u>Texas Pattern</u>				
<u>7-5/8"</u>	<u>40#</u>	<u>8</u>	<u>SS</u>	<u>150'</u>	<u>Halliburton Guide Shoe & Flood Collar</u>				
<u>5-1/2"</u>	<u>30#</u>	<u>8</u>	<u>SS</u>	<u>150'</u>	<u>Halliburton Guide Shoe & Flood Collar</u>				
<u>2"</u>	<u>4.70#</u>	<u>10</u>	<u>MUSE</u>	<u>150'</u>	<u>Halliburton Guide Shoe & Flood Collar</u>				

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>10-5/4"</u>	<u>153'</u>	<u>100 Sack El Toro</u>	<u>Halliburton</u>	<u>9.0</u>	<u>25 tons used in well</u>
<u>7-5/8"</u>	<u>153'</u>	<u>400 Sack El Toro</u>	<u>Halliburton</u>	<u>9.5</u>	
<u>5-1/2"</u>	<u>171'</u>	<u>150 Sack El Toro</u>	<u>Halliburton</u>	<u>10.0</u>	

PLUGS AND ADAPTERS

 Heaving plug—Material NONE Length _____ Depth set _____
 Adapters—Material NONE Size _____

Acid Treating

EXPLOSIVES USED

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
		<u>Halliburton</u>		<u>3-21-33</u>		
		<u>Acid</u>	<u>2000 gal</u>		<u>3730' to 3850'</u>	

TOOLS USED

 Rotary tools were used from 0 feet to 3850' feet, and from _____ feet to _____ feet
 Cable tools were used from 0 feet to _____ feet, and from _____ feet to _____ feet

DATES

 March 22, 1933 will be Put to producing April 1, 1933, 19____

 The production for the first 48 hours was 22.8 barrels of fluid of which 99.8 % was oil; _____ %
 emulsion; _____ % water; and 10 % sediment. Gravity, °Bé. 34.5 at 60 degrees

If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. Tubing Pressure 450# - Casing Pressure 125#
 EMPLOYEES
 _____, Driller T-3-2-33 _____, Driller
 _____, Driller T-3-2-33 _____, Driller
 _____, Driller T-3-2-33 _____, Driller

FORMATION RECORD

FROM	TO	TOTAL FEET	FORMATION
<u>0</u>	<u>170</u>	<u>170</u>	<u>Red Sand & Shells</u>
<u>170</u>	<u>775</u>	<u>605</u>	<u>Red Rock</u>
<u>775</u>	<u>975</u>	<u>200</u>	<u>Red Rock</u>
<u>975</u>	<u>1150</u>	<u>175</u>	<u>Red Rock & Anhydrite</u>
<u>1150</u>	<u>1170</u>	<u>20</u>	<u>Anhydrite</u>
<u>1170</u>	<u>1240</u>	<u>70</u>	<u>Red Rock</u>
<u>1240</u>	<u>1270</u>	<u>30</u>	<u>Anhydrite</u>
<u>1270</u>	<u>1424</u>	<u>154</u>	<u>Anhydrite & Salt</u>
<u>1424</u>	<u>2700</u>	<u>1276</u>	<u>Salt & Anhydrite</u>
<u>2700</u>	<u>2780</u>	<u>80</u>	<u>Gypsum, Salt & Anhydrite Shells</u>
<u>2780</u>	<u>2820</u>	<u>40</u>	<u>Salt & Anhydrite</u>
<u>2820</u>	<u>2900</u>	<u>80</u>	<u>Anhydrite</u>
<u>2900</u>	<u>3410</u>	<u>510</u>	<u>Line</u>
<u>3410</u>	<u>3710</u>	<u>300</u>	<u>Broken Line</u>
<u>3710</u>	<u>3850</u>	<u>140</u>	<u>Line</u>

 Total Depth 3850'
 Difference between casing and tubing _____
 Difference between casing and well _____
 Difference between casing and _____
 Difference between casing and _____

 Hoppe Drilling Machine & Co. _____
 Driller _____

FORMATION RECORD-Continued

FROM	TO	TOTAL FEET	FORMATION
Drilled by: McQueen & Clevenger - Contractors Hobbs District Request # 369, Job Order HM-408			
Pay Formation: Line 3730' to 3850'			
Elevation top of derrick floor: 3543'			
Elevation top of Oil String bradenhead 3551.2"			
Distance top derrick floor to top rotary 1'2"			
Distance top of derrick floor to top oil String bradenhead 11'10".			
CASING CEMENT			
10-3/4" OD	Set 270 Jts.	150' at 163'	20-3/4" OD used 100 sax El Toro
7-5/8" OD	Set 300 Jts.	1255' at 1257'	7-5/8" OD used 400 sax El Toro
5-1/2" OD	Set 220 Jts.	3701' at 3711'	5-1/2" OD used 150 sax El Toro
DRILL TOOLS, PIPE OR OTHER MATERIAL LEFT IN HOLE: NONE			
DRILLING DATA			
Commenced building rig:	3-19-38		
Commenced Rigging:	3-19-38		
Commenced Drilling:	3-19-38		
Completed Drilling:	3-19-38		
Completed Work:	3-22-38		

Set Shoes & Float Collar Used
 With 10-3/4" OD Casing 1-10-3/4" OD Texas Pattern Set Shoe
 With 7-5/8" OD Casing 1-7-5/8" OD Halliburton Guide Shoe
 With 5-1/2" OD Casing 1-7-5/8" OD Halliburton Float Collar
 1-5-1/2" OD Halliburton Float Collar
 1-5-1/2" OD Halliburton Set Shoe

Orig & Sec: U.S. Geological Survey
 The name of the well is: Hobbs District

Orig & Sec: Mr. R. E. Sinclair
 Mr. W. S. Oberg
 Mr. J. I. Riddle
 Mr. T. Doherty
 Hobbs District File

DATES

TOOLS USED

SHOOTING RECORD

LOGS AND VARIABLES

MUDDING AND CEMENTING RECORD

HISTORY OF OIL OR GAS WELL

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was left in the well, give its size and location. If the well has been dynamited, state the date, location, and number of charges and shot or bridges were put in to test the water, state the date, location, and number of charges and shot or bridges were put in to test the water.

CASING RECORD

IMPORTANT WATER SANDS

OIL OR GAS SANDS OR ZONES

Commenced drilling: 3-19-38 Finished drilling: 3-19-38
 The summary on this page is for the condition of the well at above date
 Date: 3-22-38
 Signed: _____
 so far as can be determined from all available records
 The information given hereafter is a complete and correct record of the well and all work done thereon
 Location: Hobbs District of the line and section of the well: _____
 Well No.: _____
 Location of the well: _____
 Company: _____ Address: _____

LOCAL WELL CORRECTION

LOG OF OIL OR GAS WELL

GEOLOGICAL SURVEY

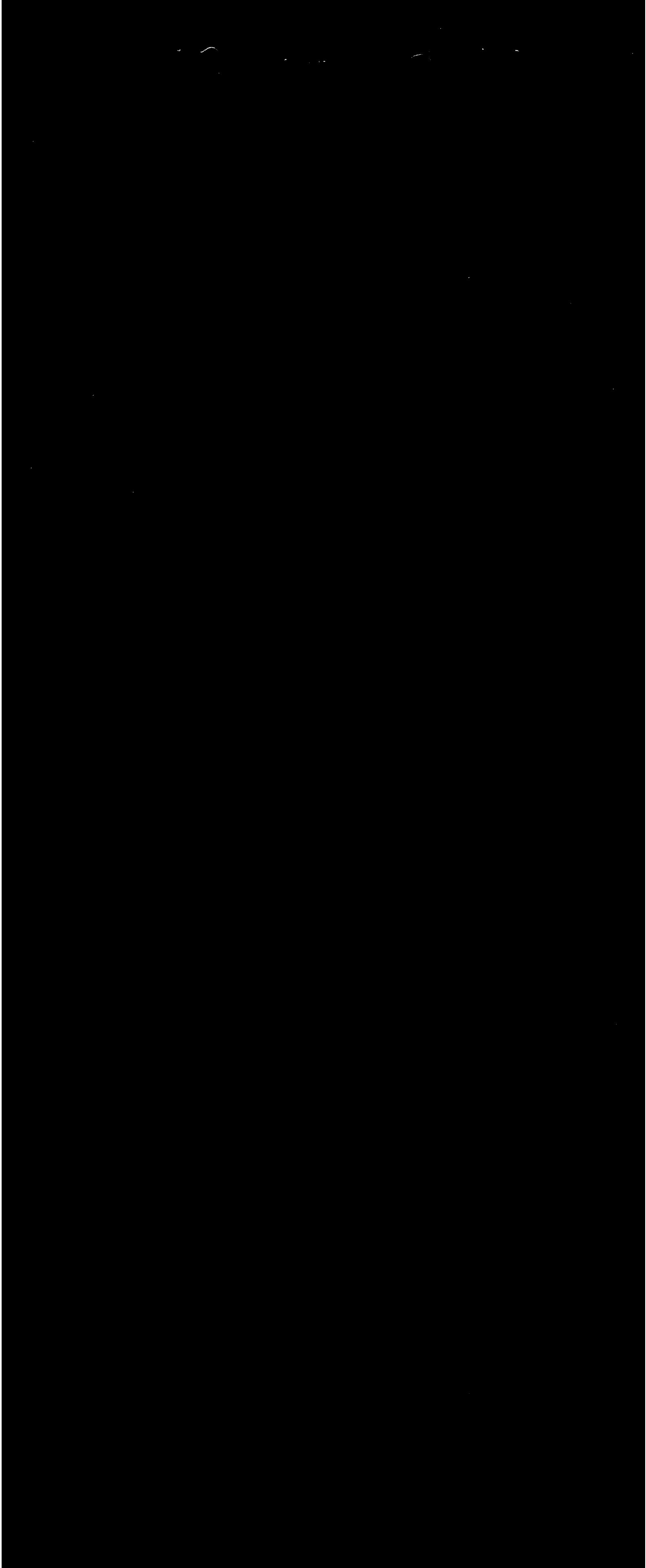
DEPARTMENT OF THE INTERIOR

UNITED STATES

DEGREE OF DEPTH TO PRODUCE

DEGREE NUMBER

U. S. LAND OFFICE



(SUBMIT IN TRIPLICATE)

U. S. Land Office Las CrucesLease or permit No. 048741

Allettee

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYLease No. Louis C. Popeam

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	X
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

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

Midland, Texas, February 15, 1940

Account #1

Well No. 4 is located 660 ft. from BACK line and 660 ft. from E line of sec. 26SE/4 of SE/4 of Sec. 26 20-South 36-East
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)Dunice

(Field)

Lea

(County or Subdivision)

New Mexico

(State or Territory)

The elevation of the derrick floor above sea level is 3563 ft.

DETAILS OF WORK

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

Pulled 2" tubing & re-ran tubing with Robinson 3-in-1 Rubber Packer set at 3750'. Swabbed well in. Unloaded oil pumped into hole. Sheared pin in tubing at 3744' opening 1/16" hole. Well started flowing through tubing. Well flowed 47 bbls. oil on 24 hour test through 9/64" choke. Gas-oil ratio 2473.

GEOLOGICAL SURVEY
RECEIVED

FEB 16 1940

Roswell, New Mexico

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 CompanyAddress Box 1600 - Midland, Texas.By [Signature]
Title Division Superintendent

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

U. S. Land Office Las Cruces
Lease or permit No. 048741
Louis C. Popeano

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.....	
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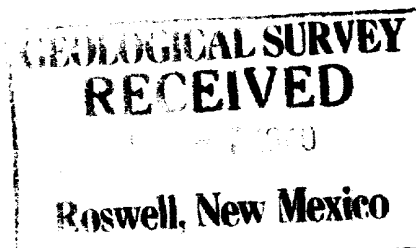
Account #1
Well No. 4 is located 660 ft. from ~~the~~ S line and 660 ft. from E line of sec. 26
SE/4 of SE/4 of Sec. 26 20-South 36-East
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Unice Lea New Mexico
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 3563 ft.

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)

To pull 2" tubing & re-run tubing with Robinson 3-in-1 ~~Rubber~~ Rubber Packer set at approximately 3750' - 3755'. Well now flowing at rate of 54 bbls. per day with gas-oil ratio 10,567. Packer to be set in an effort to reduce gas-oil ratio.



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

Title Assistant Division Superintendent