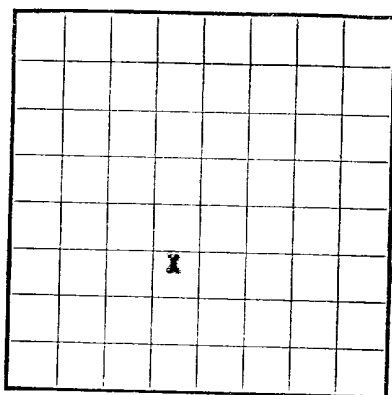


U. S. LAND OFFICE

SERIAL NUMBER

LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

RECEIVED

UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

RECEIVED

MAY 31 1961

O. C. C.
ARTESIA, OFFICE

LOG OF OIL OR GAS WELL

Company Amable Oil Refining Company (Well Operator)
Address Box 2347, Hobbs, N. Mex.
Lessor or Tract Bob Malt Huff ranch Field Aspire State N. Mex.
Well No. 21 Sec. 4 T. 18N R. 37E Meridian 10R County Lea
Location 1592 1/2 ft. S. of 10N Line and 2302 1/2 ft. W. of 37E Line of Sec. 4 Elevation 3597
(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. ORIGINAL
Signed ARVIN D. EADY SIGNED

Date May 26, 1961Title Lease

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

Commenced drilling January 19, 1961 Finished drilling February 7, 1961

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

Flowing later: 1-16-61

No. 1, from dry hole to _____ 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>3-4/8"</u>	<u>24</u>	<u>4</u>	<u>AMC</u>	<u>1500</u>	<u>BEARING</u>	<u>dry hole</u>			<u>drilling</u>
<u>4-2/2"</u>	<u>9.5</u>	<u>4</u>	<u>AMC</u>	<u>1-620</u>	<u>BEARING</u>	<u>dry hole</u>			<u>drilling</u>

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>3-4/8"</u>	<u>1519</u>	<u>400</u>	<u>lump</u>	<u>-</u>	<u>-</u>
<u>4-2/2"</u>	<u>5620</u>	<u>45</u>	<u>lump</u>	<u>-</u>	<u>-</u>

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
	<u>None</u>					

TOOLS USED

Rotary tools were used from _____ feet to 5620 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

May 26, 1961 Put to producing _____, 19____

The production for the first 24 hours was _____ barrels of fluid of which _____% was oil; _____% emulsion; _____% water; and _____% sediment. Gravity, °Bé. _____

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

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

_____, Driller _____, Driller
E. L. Blackmore, Driller Edgar Locke, Driller
E. L. Butler, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	234	234	red sand and anhydrite
234	1507	1273	anhydrite and op.
1507	3812	2305	lime
3812	4150	338	lime and dolomite
4150	5045	895	lime
5045	5594	549	lime and shale
5594	5620(10)	26	lime
			Formation Tops
			ucon 1225
			San Andres 1225
			Permian 2855
			Permian spring 3807
			Top reef (?) 5420
			Base reef (?) 5508

HISTORY OF OIL OR GAS WELL

This will be added to a total of \$800 and found to be dry.

Included in hole at 100' - 7-12-7. In 196 (in 19) 5-5/8" cast and at
\$10 / 100 size per nest cost. The following are listed 7-7/8" hole to 500 (1).

On 4-29-7 (1st) 6-1/2" cast set at 500 w/100 size cast. Top of cast 100' to

two-figure survey.

and this was:

The following lists were sent:

IS size from 52.9 to 53.0.
S size from 1550 to 1550.
A size from 1550 to 1550.

My note which was included in accordance with local regulations.

THE FOLLOWING ARE THE
15 JAN 1950 TO 1530
16 JAN 1950 TO 1450
17 JAN 1950 TO 1400
18 JAN 1950 TO 1350
19 JAN 1950 TO 1300
20 JAN 1950 TO 1250
21 JAN 1950 TO 1200
22 JAN 1950 TO 1150
23 JAN 1950 TO 1100
24 JAN 1950 TO 1050
25 JAN 1950 TO 1000
26 JAN 1950 TO 0950
27 JAN 1950 TO 0900
28 JAN 1950 TO 0850
29 JAN 1950 TO 0800
30 JAN 1950 TO 0750
31 JAN 1950 TO 0700
1 FEB 1950 TO 0650
2 FEB 1950 TO 0600
3 FEB 1950 TO 0550
4 FEB 1950 TO 0500
5 FEB 1950 TO 0450
6 FEB 1950 TO 0400
7 FEB 1950 TO 0350
8 FEB 1950 TO 0300
9 FEB 1950 TO 0250
10 FEB 1950 TO 0200
11 FEB 1950 TO 0150
12 FEB 1950 TO 0100
13 FEB 1950 TO 0050
14 FEB 1950 TO 0000

*0571 01 0550 0001 0001
 *0571 01 0550 0001 0001
 *0571 01 0550 0001 0001

SECRET

1519 - 1520 are not out. Not identified. Dated 7-7/8. Note to 1520 (11).

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED

Humble Oil & Refining Company, Box 2347, Hobbs, New Mexico

Abo Chalk Bluff Draw Unit, Well #21, 1592' fr South line and 2302' fr West Line
Sec 4, T-18-S, R-27-E, Empire Abo Pool, Eddy County, New Mexico.

Perforated $4\frac{1}{2}$ " csg from 5480 to 5506' w/2 shots per ft. Acidized perforations w/3000 gal acid, avg inj rate 3.3 BPM. On 5 hr swab test recovered 24 bbls acid water, swabbed dry. Acidized w/6000 gal acid, avg inj rate 6.3 BPM. On 6 hr swab test rec 12 bbls acid water. Pulled 2" tbg and set Baker CI Plug at 5456'. Had communication around retainer. Pulled tubing and set Baker CI Retainer at 5435'. Squeezed perf from 5480-5506' w/100 sx cmt. Perf $4\frac{1}{2}$ " csg from 5338-5345, 5370-5375, 5400-5408' w/2 shots per ft. Acidized perforations w/3000 gal acid, avg inj rate 6 BPM. Swabbed 16 hrs, rec 85 bbls acid water. Set retrievable bridge plug at 5415', set packer at 5390', had communication around perf 5370-5375, 5400-5408. Set packer at 5359' had communication between 5370-5375, 5338-5345'. Acidized perf from 5338-5345, 5370-5375, 5400-5408' w/7,500 gal acid, avg inj rate 6.2 BPM. Swabbed 26 hrs, rec 107 bbls acid water. Set Baker Model "K" Cmt retainer at 5333', cemented perf from 5338-5345, 5370-5375, 5400-5408' w/100 sx cmt. Perf $4\frac{1}{2}$ " csg from 5290-5308, 5314-5326, w/2 shots per ft. Acidized perf from 5290-5308, 5314-5326' w/5000 gal acid, avg inj rate 6.3 BPM. Swabbed 26 hrs, rec 76 bbls acid water. Frac perf from 5290-5308, 5314-5326, w/75,000 gal fresh water containing 3750# F-4 & 75 gal LT-15 and 36,500# 20-40 sand, avg inj rate 35.3 BPM. Flowed 230 bbls water, swabbed 19 hrs rec 304 bbls water. Ran rods and placed well on pump, rec 172 bbls fresh water and 176 bbls salt water with slight show of oil. Preparing to Plug & abandon.