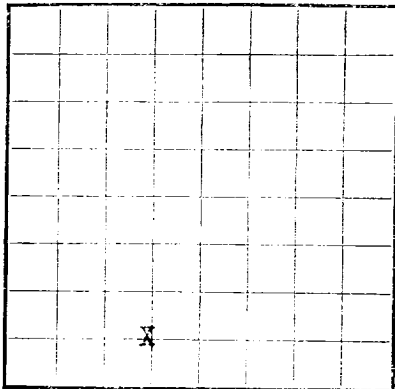


U. S. LAND OFFICE Las Cruces
SERIAL NUMBER LC-061936-1
LEASE OR PERMIT TO PROSPECT

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company TTAGO Inc. Address P.O. Box 352, Midland, Texas
Lessor or Tract A.F. Ray-Federal NCF-1 Field Undesignated State New Mexico
Well No. 1 Sec. 10 T25-S. R. 32-E Meridian Map County Lea
Location 662 ft. N. of 3 Line and 1230 ft. E. of 1 Line of Section 10 Elevation 3455' (DF)
H W (Herrick door 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 MBHolland

Date January 6, 1961 Title Assistant District Superintendent
The summary on this page is for the condition of the well at above date.

Commenced drilling December 21, 1960 Finished drilling December 29, 1960

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 4704' to 4706' No. 4, from _____ to _____
No. 2, from 4712' to 4722' No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____
Drilled with rotary tools and no water sands tested.
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>7-5/8"</u>	<u>24.00</u>	<u>8-R</u>	<u>H-40</u>	<u>323</u>	<u>Howco</u>	<u>None</u>	<u>None</u>	<u>None</u>	<u>Surface</u>
<u>4-1/2"</u>	<u>9.50</u>	<u>8-R</u>	<u>J-55</u>	<u>4760'</u>	<u>Howco</u>	<u>None</u>	<u>See</u>	<u>Above</u>	<u>Production</u>

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>7-5/8"</u>	<u>335'</u>	<u>250</u>	<u>Howco</u>		
<u>4-1/2"</u>	<u>4770'</u>	<u>150</u>	<u>Howco</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

TOOLS USED

Rotary tools were used from 0 feet to 4771 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

January 6, 1961 Put to producing January 5, 1961

The production for the first 24 hours was 123 barrels of fluid of which 100% was oil; 0% emulsion; 0% water; and 0% sediment. Gravity, °Bé. 41.2

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

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

J. A. Moon, Driller B. . Thomas, Driller
L. B. Holland, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	250	250	Caliche
250	780	530	Red Bed
780	1060	280	Anhy
1060	1222	162	Anhy & Salt
1222	3528	2306	Top of Salt & Anhy
3528	4428	900	Anhy
4428	4682	254	Lime & Anhy
4682	4771	89	Delaware Sand
Total Depth	4771		
FBTD	4739		

All measurements from rotary table or 5' above ground level.

Estimate No. 5391

Formation Tops

4 - USGS
1 - NMOC
1 - Mrs. Rhea
1 - Pauley Pet.
1 - Division
1 - Field
1 - File

Anhy 730'
Top of Salt 1222'
Btm of salt 4428'
Delaware Sand 4682'

FROM-	TO-	TOTAL FEET	FORMATION
			Deviation Record
			Depth
			Degrees Off
			1/2
			637
			1/2
			954
			3/4
			1266
			1581
			1
			1-1/4
			1880
			2301
			1-1/2
			2545
			1-1/2
			3065
			1
			3393
			1-1/2
			3798
			1-1/2
			4084
			4445
			2
			4771

Spudded 9-7/8" hole 6:30 P.M. December 11, 1960. Ran 323' of 7-5/8" O.D. casing and cemented at 335' with 250 ex Retarder. Plug at 310'. Tested before and after drilling plug for 30 minutes with 1000 PSI. Tested OK. Job complete 2:30 AM December 22, 1960.

Ran 4760' of 4-1/2" O.D. casing and cemented at 4770' with 150 ex Incon 42 gel. Plug at 4739'. Tested before and after washing down casing to plug for 30 minutes with 1500 PSI. Tested OK. Job complete 7:00 P.M. December 31, 1960.

Perforate 4-1/2" O.D. casing with 2 jet shots per ft from 4704' to 4706' and 4712' to 4722'. Acidized with 250 gals 15% HCl N.A. Re-acidize with 250 gals gel acid, 250 lbs crushed naphthalene, and 500 gals 15% HCl N.A.

On 12 Hr RT well swabbed 99 ft and no wire ending 7:00 AM January 6, 1961. GOR 137M, Gravity 41.2, Top of Pay - 4704', Btm of Pay 4722'. WOC date - December 29, 1960, TMAOC Inc. date - January 6, 1961.