N. M. O. C. C. COPY

Form 9-330

Budget Bureau No. 42-R355.4.
Approval expires 12-31-60.

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER LC 028978 (b)
LEASE OR PERMIT TO PROSPECT

1 cy SF

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U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company Reading and Bates, Inc. Address 1101 Philtower Bldg., Tulsa 3, Okla.

Lessor or Tract Simms-Federal Field N. Benson State New Mexico

Well No. 1 Sec. 34 T. 18S R. 30E Meridian N.M.P.M. County Eddy

Location 660 ft. {N. / S.} of N Line and 1980 ft. {E. / W.} of W Line of Sec. 34 Elevation 3460 DF (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 D. L. Potter

Date August 8, 1961 Title Exploration, Geologist

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

Commenced drilling May 23, 19 61 Finished drilling July 7, 19 61

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 2008 to 2026 G No. 4, from 3036 to 3045 oil

No. 2, from 2826 to 2835 oil No. 5, from 3212 to 3228 oil

No. 3, from 2930 to 2950 oil No. 6, from 3295 to 3305 sh. oil

IMPORTANT WATER SANDS

No. 1, from 3401 to 3409 No. 3, from to

No. 2, from 3200 to 3220 (after frac only) No. 4, from to

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
8 5/8"	32	8 RT	Reed	22	Flat				Surface
5 1/2"	15.5	8 RT	GBI	3101	Super Seal		2930	Abrasajet	
					Halliburton		2958		Long String (Production)

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8"	630 DF	50	Halliburton Pump-Cable Tool Hole -		None
5 1/2	3102 DF	280	" " " "	"	65 bbls. Gel.

PLUGS AND ADAPTERS

Heaving plug—Material ~~Halco Bridging Plug~~ Calseal & hydromite Length ~~2 ft. + hydromite~~ 92 ft. Depth set ~~3072-3060~~ 3271-3409

Adapters—Material Size

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from ~~None~~ feet to feet, and from feet to feet

Cable tools were used from 0 feet to 3409 T.D. feet, ~~and from feet to feet~~

DATES

, 19 Put to producing , 19

The production for the first 24 hours was ~~250~~ barrels of fluid of which ~~100~~ % was oil; % emulsion; % water; and % sediment. Gravity, °Bé. ~~36° - 37°~~

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

Rock pressure, lbs. per sq. in. ~~560# S.I. at surface (well head)~~

EMPLOYEES

~~Roy Hill~~, Driller , Driller

~~Charles Lamb~~, Driller ~~John O'Brien-Pusher~~, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION	
				AT THE END OF COMPLETE DRILLER'S LOG, ADD GEOLOGIC TOPS. STATE WHETHER FROM [illegible]
				Description
0	330			Red bed and sand
330	615		Rustler	Anhydrite and shale
615	1515			Salt
1515	1990			Anhydrite
1990	2020			Sand
2020	2090		Yates	Sand and lime
2090	2820			Lime and shale with red shale and gypsum
2820	2860		Queen	Sand and red sand
2860	2925			Lime
2925	2950			Sand
2950	3035			Lime
3035	3050		Penrose	Sand
3050	3196		Grayburg	Lime with silt and sand breaks
3196	3227			Sand
3227	3292			Lime

[OVER]

16—48094-4

FOLD | MARK

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
3292	3308		Sand
3308	3375		Lime
3375	3386		Lime and sand
3386	3469		Premier Sand

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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 "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

Drilled to 3104 - Set 5 1/2" casing 3102. Drilled open hole to 3409 T.D.
Set Plug 3409. 3271 with Calseal and Hydromite.
Ran retrievable packers on tubing set at 3[illegible] and 3249.
Fraced between packers with 13,500 gal. frac oil and 25000# sand. Treating pressure 4600#. Injection rate 10.9 barrels per minute.
Tested estimated 50 MCF gas and 3 barrels salt water per hour.
Set Halco Bridging Plug at 3072 - with 12 Hydromite on top PBTD 3060.
Perforated with Abrasajet 2930 and 2938 - 4 holes in a plane. Acidized 250 gal HCL acid and fraced with 20000 gals frac oil and 40000# sand.
Maximum pressure 3500# minimum 2100#.