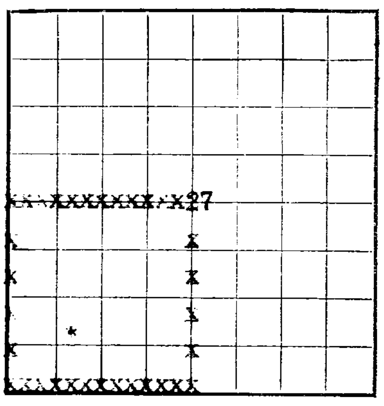
Form 9-330



LOCATE WELL CORRECTLY

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

U. S. LAND OFFICE ....
SERIAL NUMBER ....
LEASE OR PERMIT TO PROSPECT ....

UNITED STATES
DEPARTMENT OF THE INTERIOR
ROSWELL, N. MEXICO
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company McRae Oil & Gas Corporation Address P. O. Box 1527, Denver, Colorado
Lessor or Tract Lutz Federal Field Undesignated State New Mexico
Well No. 2 Sec. 27 T. 23N R. 10W Meridian NMPM County San Juan
Location 330 ft. {N. S.} of S Line and 790 ft. {E. W.} of W Line of Section 27 Elevation 5925' KB (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 .... J. A. Jones

Date August 27, 1958 Title Production Engineer

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

Commenced drilling June 6, 1958 Finished drilling July 24, 1958

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 1885' to 1965' G. No. 4, from 6396' to 6549' G.
No. 2, from 2445' to 2547' G. No. 5, from .... to ....
No. 3, from 4219' to 4367' G. 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 From—	Perforated To—	Purpose
13-3/8	48.0#	8	CF&I	235'	Texas Pattern	--			Surface
7-5/8	26.4#	8	CF&I	1184'			1075	1076	Intermediate
5-1/2	15.5#	8	CF&I	2174'	(Perf's shown below)				Prod. string
5-1/2	15.5#	8	CF&I	4375'					Prod. string

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13-3/8	245'	200 sx	Circ to surf.		
7-5/8	1193'	150 sx	Pumped down		
5-1/2	695'	510 sx	Pumped down		
5-1/2	[illegible]	[illegible]	Pumped down		

PLUGS AND ADAPTERS

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

SHOOTING RECORD

SAND FRAC

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
16,000# sd, 16,000 gal wtr & 35 balls to frac from 6471' to 6480' & 6485' to 6492'						
56,000# sd, 56,000 gal wtr & 156 balls to frac from 6394' to 6450' KB						
7,000# sd, 12,000 gal wtr to frac from 6333' to 6340' KB						

TOOLS USED

Rotary tools were used from 0 feet to 6565' feet, and from -- feet to -- feet
Cable tools were used from -- feet to -- feet, and from -- feet to -- feet

DATES

June 6, 1958 Put to producing not px on production yet 19xx

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. .... (Initial production will be reported when well is placed on production)

EMPLOYEES

Roy Gnagy, Jr., Driller Gene Waters, Driller
W. S. Brink, Driller ...., Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
Perforations:			
6333'	6340	7'	4 holes/ft
6394'	6436'	42'	2 holes/ft
6436'	6450'	14'	4 holes/ft
6471'	6480'	9'	2 bullets & 2 jets/ft
6485'	6492'	7'	4 bullets & 4 jets/ft
6333'	6492'	79'	Perforated w/260 holes
0	255'	255'	Surface Alluvium
255'	1017'	762'	Animas Formation
1017'	1598'	581'	Kirtland Formation
1598'	1885'	287'	Fruitland Formation
1885'	2460'	575	Pictured Cliffs
2460'	3443'	983'	Lewis Shale
3443'	3547'	104'	Cliff House
3547'	4219'	672'	Menefee
4219'	4367'	148'	Point Lookout
4367'	5564'	1197'	Mancos Shale
5564'	5840'	276'	Gallup
5840'	6204'	364'	Tocito
6204'	6266'	62'	Greenhorn
6266'	6306'	40'	Graneros
6306'	6549'	243'	Dakota
6549'	6565' (TD)	16'	Morrison

16—43094-4

FOLD | MARK

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
I. Cores: Cut Core #1, 6-30-58 & Cores #2 & 3, 7-1-58			
#1:			
5575'	5592'	17'	Gallup. Recovered 17'; 7' sand & shly sd, NS & 10' sdy sh NS
#2:			
5592'	5615'	23'	Gallup. Recovered 23'; 23' sdy sh NS
#3:			
5615'	5637'	22'	Gallup. Recovered 17'; 9' sdy sh & 8' sh NS

II. Logs & Surveys:

6-21-58 Ran Induction Log from 4494' to 245' KB.
6-21-58 Ran Detail Ind. Log from 4494' to 3400' KB.
6-21-58 Ran Gamma Ray Log from 4493' to 3400' KB.
7-22-58 Ran Gamma Ray-Neutron Log from 6553' to 4500' KB.
XXX7-22-58XXXRan Neutron Log from 6541' to 4500' KBX
XXXXXX
7-22-58 Ran Neutron Log from 4500' to 3500' KB.
7-22-58 Ran Induction Log from 6541' to 4500' KB.
7-22-58 Ran Detail Gamma Ray-Neutron Log from 6553' to 5400' KB.
7-22-58 Ran Detail Neutron Log from 4500' to 3500' KB.
7-22-58 Ran Detail Induction Log from 6541' to 5400' KB.
7-23-58 Deviation Survey from 4500' to 6526 6525' KB.
8-8-58 Ran Gamma Ray & Collar Log from 6503' to 6150' KB.

III. Production Tests:

No Drill Stem Tests were run.
8-6-58 Pitot tube gage of gas from perfs @ 6471' to 6480' & 6485' to 6492' measured 2500 MCF/day blowing to atmosphere.
8-12-58 Pitot tube gage of gas from perfs @ 6394' to 6453' measured 10,000 MCF/day blowing to atmosphere.
8-15-58 Pitot tube gage of gas from perfs @ 6333' to 6340' measured 2,000 MCF/day blowing to atmosphere.

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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.