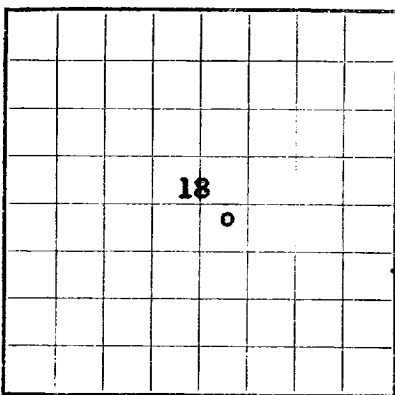




LOCATE WELL CORRECTLY

U. S. LAND OFFICE Apache
SERIAL NUMBER _____
LEASE OR PERMIT TO PROSPECT Jicarilla Tribal #89 - 62839UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Gulf Oil Corporation Address Prod. Dept., Box 1346, Salt Lake City, Utah
Lessor or Tract Apache Federal Field Basin-Dakota State New Mexico
Well No. 10 Sec. 18 T. 24N R. 5W Meridian NMPM County Rio Arriba
Location 2111 ft. N. of 2 Line and 2241 ft. W. of E Line of Section 18 Elevation 6486'
(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 By T. A. TRAX
Date January 12, 1961 Title Area Production Manager

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

Commenced drilling November 1, 1960 Finished drilling November 18, 1960

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 2118' to 2170' (G) No. 4, from 6700' to 6720' (G2)
No. 2, from 5400' to 5500' No. 5, from _____ to _____
No. 3, from 6569' to 6600' (G) No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from NONE TESTED 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>8-5/8</u>	<u>24</u>	<u>8R</u>	<u>SS</u>	<u>193.86</u>	<u>Float Collar</u>		<u>6544'</u>	<u>6584'</u>	<u>Production</u>
<u>5 1/2</u>	<u>19.8</u>	<u>8R</u>	<u>SS</u>	<u>798.75</u>	<u>*</u>				
<u>5 1/2</u>	<u>14</u>	<u>8R</u>	<u>SS</u>	<u>5952.14</u>	<u>*</u>				
<u>5 1/2</u>	<u>15.5</u>	<u>8R</u>	<u>SS</u>	<u>90.11</u>	<u>*</u>				
<u>*1st Stage - Cem Guide Shoe</u>									
<u>2nd Stage - Stage Collar</u>									

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>8-5/8</u>	<u>208'</u>	<u>175</u>	<u>Pump & Plug</u>		
<u>5 1/2</u>	<u>6756'</u>	<u>*</u>			
<u>*1st stage cem @6770' w/221 sx cem and 83 sx Diacel "D", 2% ca cl.</u>					
<u>2nd stage thru Baker stage collar @2270' w/110 sx cem</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 Surface feet to TD feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

_____, 19____ Put to producing SI for pipeline connection
~~XXXXXXXXXX~~ IP Test December 30, 1960

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 1808 MCF Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. 2560#

EMPLOYEES

_____, Driller _____, Driller
_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION			
			<u>E-LOG TOPS:</u>			
	<u>Pictured Cliffs</u>	<u>2120'</u>	<u>Pt. Lookout</u>	<u>4309'</u>	<u>Senastee</u>	<u>5974'</u>
	<u>Laventana</u>	<u>2953'</u>	<u>Mancos</u>	<u>4518'</u>	<u>Green Horn</u>	<u>6330'</u>
	<u>Cliff House</u>	<u>3446'</u>	<u>Gallup</u>	<u>5400'</u>	<u>Graneros</u>	<u>6405'</u>
	<u>Menefee</u>	<u>3790'</u>	<u>3rd Gallup</u>	<u>5558'</u>	<u>Dakota</u>	<u>6545'</u>
					<u>Morrison</u>	<u>6754'</u>
	<u>TD 6794'</u>	<u>PBTD 6733'</u>				

Notched in 5 1/2" csg @6587'. Filled hole and broke down formation w/2520 gal wtr treated w/.3% of M-38 and 34# per 1000 gal of J-101. Treated thru csg w/20,160 gal of wtr treated w/.3% M-38, 34# per 1000 gal of J-101 and 35# per 1000 gal of J-98 as follows: 2500 gal w/1# per gal 20/40 sd; 6300 gal w/.12# per gal of 8/12 walnut shells; 6300 gal w/.15# per gal of 8/12 walnut shells; 5060 gal w/.18# per gal of 8/12 walnut shells, flushed w/6720 gal of untreated wtr. Inj rate for treatment 30 bpm. Max pressure 3200#; min 2500#. ISIP 2400#, 10 min 1975#, 1 hr 1675#, 4 hrs 1350#.

~~XXXXXXXXXX~~ Jet perf 6544'-6584', 160 holes. Acidized w/250 gal of breakdown acid at rate of 1/2 bpm. Max pressure 2000#, broke to 1000# after 1/2 of acid was in formation. At end of treatment pressure was 1200#. In 3 min it dropped to 900#, in 30 min to 900#, in 30 min to 50#. Swabbed back. Fraced w/33,600 gal wtr treated w/1% ca cl and 5# per 100 gal of J-98 and 34000# 20/40 sand. Max pressure 3400#. Min pressure 2800#. Avg inject rate 37 bpm. Instant SI 2200#, 1800# 10 min SI, 1025# 1 hr 30 min SI. Took BHP and open flow tests. BHP @6495' 2560#. Open flow by 1 pt method 1808 MCF.

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.

[illegible]