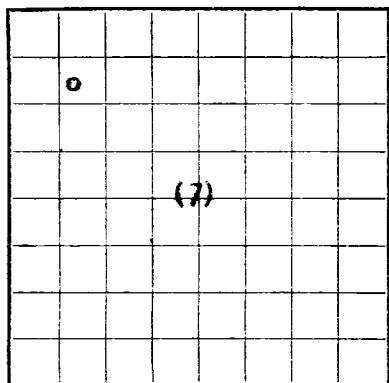




LOCATE WELL CORRECTLY

U. S. LAND OFFICE Jicarilla
SERIAL NUMBER Tribal #69
LEASE OR PERMIT TO PROSPECTContract No. 02339UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Gulf Oil Corporation Address P. O. Box 1971, Casper, Wyoming
Lessor or Tract Apache Federal Field Basin-Dakota State New Mexico
Well No. 15 Sec. 7 T24N R. 9W Meridian 44W County Rio Arriba
Location 550 ft. (N.) of 4 Line and 550 ft. (E.) of 4 Line of Section 7 Elevation 5545'
(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 _____

Date July 13, 1961 Title Area Production Manager

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

Commenced drilling 7-5, 1961 Finished drilling 7-13, 1961

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 2266' to 2284' (G) No. 4, from 5552' to 5670' (G&O)
No. 2, from 2314' to 2326' (G) No. 5, from 6678' to 6750' (L)
No. 3, from 2334' to 2343' (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—	
8-5/8"	26.4	8	55	2161'	Cement shoe	5552'	5743'	6744'	Production
4-1/2"	9.35	8	55	252.18'		5743'	6744'	6750'	Production
							6735'	6705'	Production

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
5-8"	227'	250 sx (2 1/2 ca. ct.)	Pump & Plug		
1-1/2"	552.81'	(238 sx (2 1/2 ca. ct.) (105 sx Disce)	1st stage		
1-1/2"	2460'	150 sx reg. cement	2nd stage through stage collar		

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

DATES

_____, 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 1473 MCF/D Gallons gasoline per 1,000 cu. ft. of gas _____Rock pressure, lbs. per sq. in. 2319#

EMPLOYEES

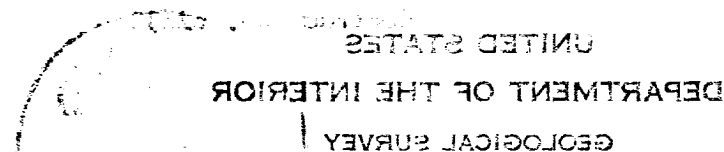
_____, Driller _____, Driller
_____, Driller _____, Driller

FORMATION RECORD

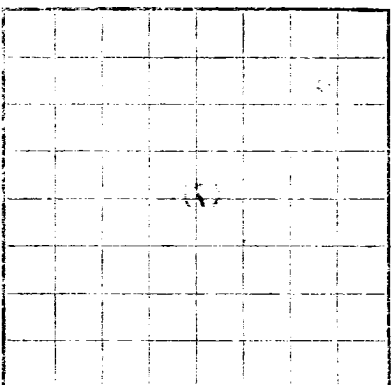
FROM—	TO—	TOTAL FEET	FORMATION
<u>Electric log tops:</u>			
Pictured Cliffs	2266'	3rd Gallup	5717'
Mesa Verde	3810'	Greenhorn	6468'
Pt. Lookout	4438'	Dakota	6678'
1st Gallup	5553'		
TD 6878'. PNTD 6818'.			
Ran 4-1/2" casing and pressured to total depth to 3150#, OK. Tested casing above and below stage collar at 2460', OK. Found casing leak between 5253' and 5282'. Set full bore packer at 5104' and squeezed with 50 sacks of Flac cement with D-8 retarder. Got 38 sacks in formation. Maximum squeezing pressure was 3000#. Pulled packer up to 4804' and reversed clean and pressured to 3000# for 30 minutes, OK. Drilled out to bottom of cement at 5280'. Pressure test to 3600#, small casing head leak. Spotted 250 gallons BDA through tubing. Perforated with 224 holes, 4 shots per foot: 6743'-6744', 6735'-6705', 6700'-6678'. Fraced with 52,500 gallons water with 1 gallon /1000 M-38 and 34#/1000 gallon-J-101, 1#/gallon 20-40 sand. Maximum treating pressure 3300# per minute, minimum treating pressure 2900# per minute. Average injection rate 31.3 barrels per minute. After 40,000# sand in formation, dropped 20 sealer balls, no increase in pressure. Instant shut in 2500#, in 10 minutes 2100#, in 1-1/2 hours 1150#. Cleaned out sand to 6778'. Ran tubing, swabbed and flowed. Shut in for open flow test. After 120 hours shut in tubing 2332#, casing 2334#. Bottom hole pressure 6713', 2819#. Flowed 3 hours through 3/4" choke. Tubing flow pressure 108#. Casing flow pressure 503#. Flow rate 1420 MCF/D. Absolute open flow 1473 MCF/D.			

FORMATION RECORD—Continued

State of _____
County of _____
Section _____ Township _____ Range _____
Bearing or Permit to Prospect _____
Survey Number _____
Date of Issue _____



LOG OF OIL OR GAS WELL



LOCATE WELL CORRECTLY

Company _____
Lessor or Tract _____
Well No. _____ Section _____ Township _____ Range _____
Location _____ of _____ Line and _____ of _____
The information given herewith is a complete and correct record of the well and all work done thereon
as far as can be determined from all available records.
Signed _____
Date _____

The summary on this page is for the condition of the well at above date
Commenced drilling _____ 19____
Finished drilling _____ 19____

OIL OR GAS SANDS OR ZONES

(Please use by G)

No. 1, from _____ to _____
No. 2, from _____ to _____
No. 3, from _____ to _____
No. 4, from _____ to _____
No. 5, from _____ to _____
No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____
No. 2, from _____ to _____
No. 3, from _____ to _____
No. 4, from _____ to _____

CASING RECORD

Casing	Size	Weight	Threads	Per	Make	Amount	Kind of shoe	Cut and drilled from	Perforated	Purpose

HISTORY OF OIL OR GAS WELL

--	--	--	--	--	--	--	--	--	--	--

MUDDING AND CEMENTING RECORD

Casing	Size	Weight	Number sacks of cement	Method used	Mud gravity	Amount of mud used

PLUGS AND ADAPTERS

Adapters—Material _____
Size _____
Heaving plug _____
Department _____

SHOOTING RECORD

Size	Shell used	Depth in ft.	Quantity	Date	Depth shot	Depth cleared out

TOOLS USED

Rotary tools were used from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet

DATES

The production for the first 24 hours was _____
emulsion; _____ water; and _____ sediment.
If gas well, cu. ft. per 24 hours _____
Rock pressure, lbs. per sq. in. _____
Gallons gasoline per 1,000 cu. ft. of gas _____
Gravity, °Be. _____
Put to producing _____ 19____
_____ 19____

EMPLOYEES

Driller _____
Driller _____

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION