

U. S. LAND OFFICE **Santa Fe**
SERIAL NUMBER **078899**
LEASE OR PERMIT TO PROSPECT

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company **Gulf Oil Corporation** Address **P. O. Box 2097, Denver, Colorado**
Lessor or Tract **Blackrock- Federal** Field **Unnamed** State **New Mexico**
Well No. **1** Sec. **20** T. **26N** R. **11W** Meridian **NMPM** County **San Juan**
Location **660** ft. **N** of **N** Line and **660** ft. **E** of **W** Line of **Section** Elevation **6155'**
(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 _____ ORIGINAL FILED BY
Date **February 21, 1957** Title **Zone Drilling Engineer**

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

Commenced drilling **11-24**, 19 **56** Finished drilling **12-15**, 19 **56**

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from **5036** to **5068 G** No. 4, from _____ to _____
No. 2, from **5094** to **5136 G** No. 5, from _____ to _____
No. 3, from **5141** to **5208 G** No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from **300** to **460** No. 3, from **3120** to **3112**
No. 2, from **2985** to **3000** No. 4, from **3510** to **3540**

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	24	8 RT	SS	277	HOMCO	—	—	—	Surface
5-1/2	14	8 RT	SS	5281	HOMCO	—	5170	5200	Production
							5036	5068	

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8	292	150	HOMCO	—	—
5-1/2	5293	125	HOMCO	—	—

PLUGS AND ADAPTERS

Heaving plug—Material **None** Length _____ Depth set _____
Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
None						

TOOLS USED

Rotary tools were used from **0** feet to **5302** feet, and from _____ feet to _____ feet
Cable tools were used **from for completion** to _____ feet, and from _____ feet to _____ feet

DATES

2-21, 19 **57** Well SI until gas connection available.
~~Production~~ _____, 19 _____

The production for the first 24 hours was **16** barrels of fluid of which **100**% was oil; _____% emulsion; _____% water; and _____% sediment. **(This is lead oil used in fracturing. 1052 barrels load oil yet to recover.)** Gravity, _____ Be.

If gas well, cu. ft. per 24 hours **970,000** Cansons gasoline per 1,000 cu. ft. of gas **None**

Rock pressure, lbs. per sq. in. _____ Flowing Pressures: Tubing **25** psi
Casing **150** psi

EMPLOYEES

Arapahoe Drilling Company, Driller _____, Driller
_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	1320	1320	Shale silt and sandstone
1320	1495	175	Pictured Cliffs - Sandstone and shale
1495	3120	1625	Lewis - Shale
3120	3380	260	La Ventana - Sandstone and shale
3380	4910	1530	Manefee - Shale and sandstone
4910	5035	125	1st Gallup - Shaley sandstone
5035	5140	105	2nd Gallup - Shaley sandstone
5140	5302 TD	162	3rd Gallup - Shaley sandstone

DST No. 1, 1399' - 1550', tool open 1 hour, recovered 95' slightly water cut mud.
DST No. 2, 3811' - 3960', tool open 2 hours, recovered 650' water cut mud.
DST No. 3, 5035' - 5091', tool open 2 hours. Gas to surface in 80 minutes, too small to measure. Recovered 1830' highly gas cut mud with some distillate.

DST No. 4, 5122' - 5178', tool open 2 hours. No gas to surface. Recovered 3750' gas cut mud.

Core No. 1, 1990' - 5038', recovered 18' shale with minor bleeding oil and spotty fluorescence in lower 2'.

Core No. 2, 5038' - 5057', recovered 19' shale, slightly porous, bleeding gas and microscopic drops oil.

Core No. 3, 5057' - 5091', recovered 34' shale, bleeding minor gas and occasional drops of oil.

Core No. 4, 5091' - 5131', recovered 40' shale, minor gas bleeding.

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1. The first of these is the fact that the Government has been unable to secure the cooperation of the public in the fight against the enemy. This is due to the fact that the Government has been unable to secure the cooperation of the public in the fight against the enemy.

PERFORMED 5174 - 5174' WITH 2 JETS AND 2 BULLETS PER FOOT.
TREATED PARTS. 5154' TO 5200' WITH 500 GALLONS PER FOOT.
5223 GALLONS OIL, 12738# SAND. THEN TREATED WITH
1000 GALLONS WATER, 12738# SAND.
PERFORMED 5061 - 5130' WITH 70 BULLETS AND 68,000# SAND.
85,000 GALLONS OIL, 25,000# SAND.
PERFORMED 5035' - 5068' WITH 7 JETS PER FOOT. TREATED WITH 1000 GALLONS MCA,
FRACTURED WITH 2150 GALLONS OIL, 25,000# SAND.

OIL OR GAS SANDS OR ZONES
(Don't gas pg 6)

RECEIVED

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of reworking, 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. or located 54740 - \$2000 with 4 wings jets per foot - reported with 2 jets

HISTORY OF OIL OR GAS WELL

U. S. GOVERNMENT PRINTING OFFICE

FROM-		TO-		TOTAL FEET		FORMATION	
Core No. 5	5131	5131	5161	30	recovered	30'	shale and sand, minor gas bleeding.
Core No. 6	5161	5161	5181	20	recovered	20'	bleeding gas.
Core No. 7	5181	5181	5196	15	recovered	15'	bleeding gas.
Core No. 8	5196	5196	5209	13	recovered	13'	bleeding gas with trace of
Core No. 9	5209	5209	5229	20	recovered	20'	bleeding gas with trace of
light brown shale.							
bleeding.							
Core No. 10 - 5229 - 5249 - 20' - shale and sand, minor gas bleeding.							
Core No. 11 - 5249 - 5269 - 20' - shale and sand, minor gas bleeding.							
Core No. 12 - 5269 - 5289 - 20' - shale and sand, minor gas bleeding.							
Core No. 13 - 5289 - 5309 - 20' - shale and sand, minor gas bleeding.							
Core No. 14 - 5309 - 5329 - 20' - shale and sand, minor gas bleeding.							
Core No. 15 - 5329 - 5349 - 20' - shale and sand, minor gas bleeding.							
Core No. 16 - 5349 - 5369 - 20' - shale and sand, minor gas bleeding.							
Core No. 17 - 5369 - 5389 - 20' - shale and sand, minor gas bleeding.							
Core No. 18 - 5389 - 5409 - 20' - shale and sand, minor gas bleeding.							
Core No. 19 - 5409 - 5429 - 20' - shale and sand, minor gas bleeding.							
Core No. 20 - 5429 - 5449 - 20' - shale and sand, minor gas bleeding.							
Core No. 21 - 5449 - 5469 - 20' - shale and sand, minor gas bleeding.							
Core No. 22 - 5469 - 5489 - 20' - shale and sand, minor gas bleeding.							
Core No. 23 - 5489 - 5509 - 20' - shale and sand, minor gas bleeding.							
Core No. 24 - 5509 - 5529 - 20' - shale and sand, minor gas bleeding.							
Core No. 25 - 5529 - 5549 - 20' - shale and sand, minor gas bleeding.							
Core No. 26 - 5549 - 5569 - 20' - shale and sand, minor gas bleeding.							
Core No. 27 - 5569 - 5589 - 20' - shale and sand, minor gas bleeding.							
Core No. 28 - 5589 - 5609 - 20' - shale and sand, minor gas bleeding.							
Core No. 29 - 5609 - 5629 - 20' - shale and sand, minor gas bleeding.							
Core No. 30 - 5629 - 5649 - 20' - shale and sand, minor gas bleeding.							
Core No. 31 - 5649 - 5669 - 20' - shale and sand, minor gas bleeding.							
Core No. 32 - 5669 - 5689 - 20' - shale and sand, minor gas bleeding.							
Core No. 33 - 5689 - 5709 - 20' - shale and sand, minor gas bleeding.							
Core No. 34 - 5709 - 5729 - 20' - shale and sand, minor gas bleeding.							
Core No. 35 - 5729 - 5749 - 20' - shale and sand, minor gas bleeding.							
Core No. 36 - 5749 - 5769 - 20' - shale and sand, minor gas bleeding.							
Core No. 37 - 5769 - 5789 - 20' - shale and sand, minor gas bleeding.							
Core No. 38 - 5789 - 5809 - 20' - shale and sand, minor gas bleeding.							
Core No. 39 - 5809 - 5829 - 20' - shale and sand, minor gas bleeding.							
Core No. 40 - 5829 - 5849 - 20' - shale and sand, minor gas bleeding.							
Core No. 41 - 5849 - 5869 - 20' - shale and sand, minor gas bleeding.							
Core No. 42 - 5869 - 5889 - 20' - shale and sand, minor gas bleeding.							
Core No. 43 - 5889 - 5909 - 20' - shale and sand, minor gas bleeding.							
Core No. 44 - 5909 - 5929 - 20' - shale and sand, minor gas bleeding.							
Core No. 45 - 5929 - 5949 - 20' - shale and sand, minor gas bleeding.							
Core No. 46 - 5949 - 5969 - 20' - shale and sand, minor gas bleeding.							
Core No. 47 - 5969 - 5989 - 20' - shale and sand, minor gas bleeding.							
Core No. 48 - 5989 - 6009 - 20' - shale and sand, minor gas bleeding.							
Core No. 49 - 6009 - 6029 - 20' - shale and sand, minor gas bleeding.							
Core No. 50 - 6029 - 6049 - 20' - shale and sand, minor gas bleeding.							
Core No. 51 - 6049 - 6069 - 20' - shale and sand, minor gas bleeding.							
Core No. 52 - 6069 - 6089 - 20' - shale and sand, minor gas bleeding.							
Core No. 53 - 6089 - 6109 - 20' - shale and sand, minor gas bleeding.							
Core No. 54 - 6109 - 6129 - 20' - shale and sand, minor gas bleeding.							
Core No. 55 - 6129 - 6149 - 20' - shale and sand, minor gas bleeding.							
Core No. 56 - 6149 - 6169 - 20' - shale and sand, minor gas bleeding.							
Core No. 57 - 6169 - 6189 - 20' - shale and sand, minor gas bleeding.							
Core No. 58 - 6189 - 6209 - 20' - shale and sand, minor gas bleeding.							
Core No. 59 - 6209 - 6229 - 20' - shale and sand, minor gas bleeding.							
Core No. 60 - 6229 - 6249 - 20' - shale and sand, minor gas bleeding.							
Core No. 61 - 6249 - 6269 - 20' - shale and sand, minor gas bleeding.							
Core No. 62 - 6269 - 6289 - 20' - shale and sand, minor gas bleeding.							
Core No. 63 - 6289 - 6309 - 20' - shale and sand, minor gas bleeding.							
Core No. 64 - 6309 - 6329 - 20' - shale and sand, minor gas bleeding.							
Core No. 65 - 6329 - 6349 - 20' - shale and sand, minor gas bleeding.							
Core No. 66 - 6349 - 6369 - 20' - shale and sand, minor gas bleeding.							
Core No. 67 - 6369 - 6389 - 20' - shale and sand, minor gas bleeding.							
Core No. 68 - 6389 - 6409 - 20' - shale and sand, minor gas bleeding.							
Core No. 69 - 6409 - 6429 - 20' - shale and sand, minor gas bleeding.							
Core No. 70 - 6429 - 6449 - 20' - shale and sand, minor gas bleeding.							
Core No. 71 - 6449 - 6469 - 20' - shale and sand, minor gas bleeding.							
Core No. 72 - 6469 - 6489 - 20' - shale and sand, minor gas bleeding.							
Core No. 73 - 6489 - 6509 - 20' - shale and sand, minor gas bleeding.							
Core No. 74 - 6509 - 6529 - 20' - shale and sand, minor gas bleeding.							
Core No. 75 - 6529 - 6549 - 20' - shale and sand, minor gas bleeding.							
Core No. 76 - 6549 - 6569 - 20' - shale and sand, minor gas bleeding.							
Core No. 77 - 6569 - 6589 - 20' - shale and sand, minor gas bleeding.							
Core No. 78 - 6589 - 6609 - 20' - shale and sand, minor gas bleeding.							
Core No. 79 - 6609 - 6629 - 20' - shale and sand, minor gas bleeding.							
Core No. 80 - 6629 - 6649 - 20' - shale and sand, minor gas bleeding.							
Core No. 81 - 6649 - 6669 - 20' - shale and sand, minor gas bleeding.							
Core No. 82 - 6669 - 6689 - 20' - shale and sand, minor gas bleeding.							
Core No. 83 - 6689 - 6709 - 20' - shale and sand, minor gas bleeding.							
Core No. 84 - 6709 - 6729 - 20' - shale and sand, minor gas bleeding.							
Core No. 85 - 6729 - 6749 - 20' - shale and sand, minor gas bleeding.							
Core No. 86 - 6749 - 6769 - 20' - shale and sand, minor gas bleeding.							
Core No. 87 - 6769 - 6789 - 20' - shale and sand, minor gas bleeding.							
Core No. 88 - 6789 - 6809 - 20' - shale and sand, minor gas bleeding.							
Core No. 89 - 6809 - 6829 - 20' - shale and sand, minor gas bleeding.							
Core No. 90 - 6829 - 6849 - 20' - shale and sand, minor gas bleeding.							
Core No. 91 - 6849 - 6869 - 20' - shale and sand, minor gas bleeding.							
Core No. 92 - 6869 - 6889 - 20' - shale and sand, minor gas bleeding.							
Core No. 93 - 6889 - 6909 - 20' - shale and sand, minor gas bleeding.							
Core No. 94 - 6909 - 6929 - 20' - shale and sand, minor gas bleeding.							
Core No. 95 - 6929 - 6949 - 20' - shale and sand, minor gas bleeding.							
Core No. 96 - 6949 - 6969 - 20' - shale and sand, minor gas bleeding.							
Core No. 97 - 6969 - 6989 - 20' - shale and sand, minor gas bleeding.							
Core No. 98 - 6989 - 7009 - 20' - shale and sand, minor gas bleeding.							
Core No. 99 - 7009 - 7029 - 20' - shale and sand, minor gas bleeding.							
Core No. 100 - 7029 - 7049 - 20' - shale and sand, minor gas bleeding.							