

Santa Fe, N. Mex.

U. S. LAND OFFICE

SERIAL NUMBER 081160-F

LEASE OR PERMIT TO PROSPECT -----

UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company C. J. Harvey Address 439 Camino del Monte Sol

Lessor or Tract _____ Field Wildcat State New Mexico

Well No. 3-1 Sec. 21 T. 18N R. 3E Meridian 102W County Sandoval

Location 1862ft. $\left\{ \begin{array}{l} \text{N.} \\ \text{S.} \end{array} \right\}$ of 3 Line and 2171ft. $\left\{ \begin{array}{l} \text{E.} \\ \text{W.} \end{array} \right\}$ of 1 Line of Section 21 Elevation 6635
(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.

Francis L. Harvey

Signed Frank L. Henry

Date January 16, 1961 Title Operator

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

Commenced drilling ----- December 31, 1960 ----- Finished drilling ----- January 12, 1961 -----, 19-----

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 712 to 727 No. 4, from _____ to _____

No. 2, from 915 to 935 No. 5, from to

No. 3, from _____ to _____ 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

[illegible]

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
C-5/8"	0-900	0 sacks	plug		
1-1/2"	0-900	27 sacks, 27 lbs.	D-23		

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 0 feet to 935 feet, and from _____ feet to _____ feet

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

DATES

Put to producing January 15, 1961

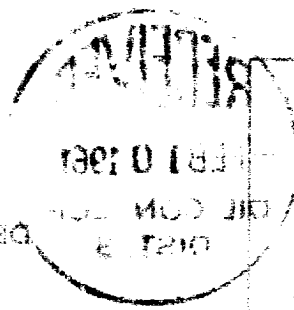
The production for the first 24 hours was 53 barrels of fluid of which 95% was oil; -----% emulsion; 4% water; and 1% sediment. Gravity, °Bé. 36

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

Rock pressure, lbs. per sq. in. _____

U.S. GEOLOGICAL SURVEY
DEPARTMENT OF THE INTERIOR
WASHINGTON, D.C.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



LOG OF OIL OR GAS WELL

Company Name _____
Location _____
Well No. _____
Date of Log _____
Name of Logger _____
The information given in this log is a complete history of the well and all work done thereon from the time it was first drilled to the present date. It is to be used as a permanent record and should be preserved as such.

OIL OR GAS SANDS OR SOLES

Depth, feet	Description of sand or sole	Thickness, feet
10	Light tan sand	2
12	Dark brown sand	3
15	Gray sand	4
19	Black sand	5
24	Dark gray sand	6
30	Light gray sand	7
37	Dark gray sand	8
45	Light gray sand	9
54	Dark gray sand	10
64	Light gray sand	11
75	Dark gray sand	12
87	Light gray sand	13
100	Dark gray sand	14
114	Light gray sand	15
129	Dark gray sand	16
145	Light gray sand	17
162	Dark gray sand	18
180	Light gray sand	19
199	Dark gray sand	20
219	Light gray sand	21
240	Dark gray sand	22
262	Light gray sand	23
285	Dark gray sand	24
309	Light gray sand	25
334	Dark gray sand	26
360	Light gray sand	27
387	Dark gray sand	28
415	Light gray sand	29
444	Dark gray sand	30
474	Light gray sand	31
505	Dark gray sand	32
537	Light gray sand	33
570	Dark gray sand	34
604	Light gray sand	35
639	Dark gray sand	36
675	Light gray sand	37
712	Dark gray sand	38
750	Light gray sand	39
789	Dark gray sand	40
829	Light gray sand	41
870	Dark gray sand	42
912	Light gray sand	43
955	Dark gray sand	44
1000	Light gray sand	45

CAUSING RECORD

Depth, feet	Description of casing	Thickness, feet
10	Steel casing	2
12	Steel casing	3
15	Steel casing	4
19	Steel casing	5
24	Steel casing	6
30	Steel casing	7
37	Steel casing	8
45	Steel casing	9
54	Steel casing	10
64	Steel casing	11
75	Steel casing	12
87	Steel casing	13
100	Steel casing	14
114	Steel casing	15
129	Steel casing	16
145	Steel casing	17
162	Steel casing	18
180	Steel casing	19
199	Steel casing	20
219	Steel casing	21
240	Steel casing	22
262	Steel casing	23
285	Steel casing	24
309	Steel casing	25
334	Steel casing	26
360	Steel casing	27
387	Steel casing	28
415	Steel casing	29
444	Steel casing	30
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505	Steel casing	32
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604	Steel casing	35
639	Steel casing	36
675	Steel casing	37
712	Steel casing	38
750	Steel casing	39
789	Steel casing	40
829	Steel casing	41
870	Steel casing	42
912	Steel casing	43
955	Steel casing	44
1000	Steel casing	45

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.

HISTORY OF OIL OR GAS WELL

DATE	DESCRIPTION OF WORK	REMARKS
1961-02-10	Drilled to 1000 feet	Light tan sand
1961-02-15	Drilled to 1100 feet	Dark brown sand
1961-02-20	Drilled to 1200 feet	Gray sand
1961-02-25	Drilled to 1300 feet	Black sand
1961-03-01	Drilled to 1400 feet	Dark gray sand
1961-03-05	Drilled to 1500 feet	Light gray sand
1961-03-10	Drilled to 1600 feet	Dark gray sand
1961-03-15	Drilled to 1700 feet	Light gray sand
1961-03-20	Drilled to 1800 feet	Dark gray sand
1961-03-25	Drilled to 1900 feet	Light gray sand
1961-04-01	Drilled to 2000 feet	Dark gray sand
1961-04-05	Drilled to 2100 feet	Light gray sand
1961-04-10	Drilled to 2200 feet	Dark gray sand
1961-04-15	Drilled to 2300 feet	Light gray sand
1961-04-20	Drilled to 2400 feet	Dark gray sand
1961-04-25	Drilled to 2500 feet	Light gray sand
1961-05-01	Drilled to 2600 feet	Dark gray sand
1961-05-05	Drilled to 2700 feet	Light gray sand
1961-05-10	Drilled to 2800 feet	Dark gray sand
1961-05-15	Drilled to 2900 feet	Light gray sand
1961-05-20	Drilled to 3000 feet	Dark gray sand
1961-05-25	Drilled to 3100 feet	Light gray sand
1961-06-01	Drilled to 3200 feet	Dark gray sand
1961-06-05	Drilled to 3300 feet	Light gray sand
1961-06-10	Drilled to 3400 feet	Dark gray sand
1961-06-15	Drilled to 3500 feet	Light gray sand
1961-06-20	Drilled to 3600 feet	Dark gray sand
1961-06-25	Drilled to 3700 feet	Light gray sand
1961-07-01	Drilled to 3800 feet	Dark gray sand
1961-07-05	Drilled to 3900 feet	Light gray sand
1961-07-10	Drilled to 4000 feet	Dark gray sand
1961-07-15	Drilled to 4100 feet	Light gray sand
1961-07-20	Drilled to 4200 feet	Dark gray sand
1961-07-25	Drilled to 4300 feet	Light gray sand
1961-08-01	Drilled to 4400 feet	Dark gray sand
1961-08-05	Drilled to 4500 feet	Light gray sand
1961-08-10	Drilled to 4600 feet	Dark gray sand
1961-08-15	Drilled to 4700 feet	Light gray sand
1961-08-20	Drilled to 4800 feet	Dark gray sand
1961-08-25	Drilled to 4900 feet	Light gray sand
1961-09-01	Drilled to 5000 feet	Dark gray sand
1961-09-05	Drilled to 5100 feet	Light gray sand
1961-09-10	Drilled to 5200 feet	Dark gray sand
1961-09-15	Drilled to 5300 feet	Light gray sand
1961-09-20	Drilled to 5400 feet	Dark gray sand
1961-09-25	Drilled to 5500 feet	Light gray sand
1961-10-01	Drilled to 5600 feet	Dark gray sand
1961-10-05	Drilled to 5700 feet	Light gray sand
1961-10-10	Drilled to 5800 feet	Dark gray sand
1961-10-15	Drilled to 5900 feet	Light gray sand
1961-10-20	Drilled to 6000 feet	Dark gray sand
1961-10-25	Drilled to 6100 feet	Light gray sand
1961-11-01	Drilled to 6200 feet	Dark gray sand
1961-11-05	Drilled to 6300 feet	Light gray sand
1961-11-10	Drilled to 6400 feet	Dark gray sand
1961-11-15	Drilled to 6500 feet	Light gray sand
1961-11-20	Drilled to 6600 feet	Dark gray sand
1961-11-25	Drilled to 6700 feet	Light gray sand
1961-12-01	Drilled to 6800 feet	Dark gray sand
1961-12-05	Drilled to 6900 feet	Light gray sand
1961-12-10	Drilled to 7000 feet	Dark gray sand
1961-12-15	Drilled to 7100 feet	Light gray sand
1961-12-20	Drilled to 7200 feet	Dark gray sand
1961-12-25	Drilled to 7300 feet	Light gray sand
1962-01-01	Drilled to 7400 feet	Dark gray sand
1962-01-05	Drilled to 7500 feet	Light gray sand
1962-01-10	Drilled to 7600 feet	Dark gray sand
1962-01-15	Drilled to 7700 feet	Light gray sand
1962-01-20	Drilled to 7800 feet	Dark gray sand
1962-01-25	Drilled to 7900 feet	Light gray sand
1962-02-01	Drilled to 8000 feet	Dark gray sand
1962-02-05	Drilled to 8100 feet	Light gray sand
1962-02-10	Drilled to 8200 feet	Dark gray sand
1962-02-15	Drilled to 8300 feet	Light gray sand
1962-02-20	Drilled to 8400 feet	Dark gray sand
1962-02-25	Drilled to 8500 feet	Light gray sand
1962-03-01	Drilled to 8600 feet	Dark gray sand
1962-03-05	Drilled to 8700 feet	Light gray sand
1962-03-10	Drilled to 8800 feet	Dark gray sand
1962-03-15	Drilled to 8900 feet	Light gray sand
1962-03-20	Drilled to 9000 feet	Dark gray sand
1962-03-25	Drilled to 9100 feet	Light gray sand
1962-04-01	Drilled to 9200 feet	Dark gray sand
1962-04-05	Drilled to 9300 feet	Light gray sand
1962-04-10	Drilled to 9400 feet	Dark gray sand
1962-04-15	Drilled to 9500 feet	Light gray sand
1962-04-20	Drilled to 9600 feet	Dark gray sand
1962-04-25	Drilled to 9700 feet	Light gray sand
1962-05-01	Drilled to 9800 feet	Dark gray sand
1962-05-05	Drilled to 9900 feet	Light gray sand
1962-05-10	Drilled to 10000 feet	Dark gray sand