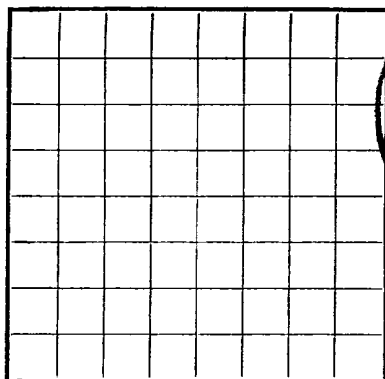


U. S. LAND OFFICE Roswell, N. M.
SERIAL NUMBER NM-04466
LEASE OR PERMIT TO PROSPECT _____



SEP 24 1958
OIL CON. COM.
DIST. 3 DEP

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECEIVED
SEP 22 1958
U. S. GEOLOGICAL SURVEY
FARMINGTON, NEW MEXICO

LOG OF OIL OR GAS WELL

Company SINCLAIR OIL & GAS COMPANY Address 601 Denver Club Bldg., Denver 2, Colo.
Lessor or Tract RICHARDSON-FEDERAL Field Wildest State New Mexico
Well No. 1 Sec. 26 T. 20N R. 13W Meridian N M P M County McKinley
Location 660 ft. 1/4 of N Line and 660 ft. 1/4 of E Line of Section 26 Elevation 6225
(Depth from relative 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 September 15, 1958 Title Asst. Div. Supt. - Prod. Dept.

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

Commenced drilling August 17, 19 58 Finished drilling August 25, 19 58

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **DRY HOLE** 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. 3, from _____ to _____
No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

[illegible]

MUDDING AND CEMENTING RECORD

[illegible]

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 3251-10 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

_____, 19____ Put to producing _____, 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 Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

R. G. Gerrard	Driller	H. W. Rombaugh	Driller
J. S. Worthington	Driller	Great Western Drilling Company	Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION

2007-09-25 10:00 AM

NEW 240 300 330 360 390 420 450 480 510 540 570 600 630 660 690 720 750 780 810 840 870 900 930 960 990 1020 1050 1080 1110 1140 1170 1200 1230 1260 1290 1320 1350 1380 1410 1440 1470 1500 1530 1560 1590 1620 1650 1680 1710 1740 1770 1800 1830 1860 1890 1920 1950 1980 2010 2040 2070 2100 2130 2160 2190 2220 2250 2280 2310 2340 2370 2400 2430 2460 2490 2520 2550 2580 2610 2640 2670 2700 2730 2760 2790 2820 2850 2880 2910 2940 2970 3000 3030 3060 3090 3120 3150 3180 3210 3240 3270 3300 3330 3360 3390 3420 3450 3480 3510 3540 3570 3600 3630 3660 3690 3720 3750 3780 3810 3840 3870 3900 3930 3960 3990 4020 4050 4080 4110 4140 4170 4200 4230 4260 4290 4320 4350 4380 4410 4440 4470 4500 4530 4560 4590 4620 4650 4680 4710 4740 4770 4800 4830 4860 4890 4920 4950 4980 5010 5040 5070 5100 5130 5160 5190 5220 5250 5280 5310 5340 5370 5400 5430 5460 5490 5520 5550 5580 5610 5640 5670 5700 5730 5760 5790 5820 5850 5880 5910 5940 5970 6000 6030 6060 6090 6120 6150 6180 6210 6240 6270 6300 6330 6360 6390 6420 6450 6480 6510 6540 6570 6600 6630 6660 6690 6720 6750 6780 6810 6840 6870 6900 6930 6960 6990 7020 7050 7080 7110 7140 7170 7200 7230 7260 7290 7320 7350 7380 7410 7440 7470 7500 7530 7560 7590 7620 7650 7680 7710 7740 7770 7800 7830 7860 7890 7920 7950 7980 8010 8040 8070 8100 8130 8160 8190 8220 8250 8280 8310 8340 8370 8400 8430 8460 8490 8520 8550 8580 8610 8640 8670 8700 8730 8760 8790 8820 8850 8880 8910 8940 8970 9000 9030 9060 9090 9120 9150 9180 9210 9240 9270 9300 9330 9360 9390 9420 9450 9480 9510 9540 9570 9600 9630 9660 9690 9720 9750 9780 9810 9840 9870 9900 9930 9960 9990 10020 10050 10080 10110 10140 10170 10200 10230 10260 10290 10320 10350 10380 10410 10440 10470 10500 10530 10560 10590 10620 10650 10680 10710 10740 10770 10800 10830 10860 10890 10920 10950 10980 11010 11040 11070 11100 11130 11160 11190 11220 11250 11280 11310 11340 11370 11400 11430 11460 11490 11520 11550 11580 11610 11640 11670 11700 11730 11760 11790 11820 11850 11880 11910 11940 11970 12000 12030 12060 12090 12120 12150 12180 12210 12240 12270 12300 12330 12360 12390 12420 12450 12480 12510 12540 12570 12600 12630 12660 12690 12720 12750 12780 12810 12840 12870 12900 12930 12960 12990 13020 13050 13080 13110 13140 13170 13200 13230 13260 13290 13320 13350 13380 13410 13440 13470 13500 13530 13560 13590 13620 13650 13680 13710 13740 13770 13800 13830 13860 13890 13920 13950 13980 14010 14040 14070 14100 14130 14160 14190 14220 14250 14280 14310 14340 14370 14400 14430 14460 14490 14520 14550 14580 14610 14640 14670 14700 14730 14760 14790 14820 14850 14880 14910 14940 14970 15000 15030 15060 15090 15120 15150 15180 15210 15240 15270 15300 15330 15360 15390 15420 15450 15480 15510 15540 15570 15600 15630 15660 15690 15720 15750 15780 15810 15840 15870 15900 15930 15960 15990 16020 16050 16080 16110 16140 16170 16200 16230 16260 16290 16320 16350 16380 16410 16440 16470 16500 16530 16560 16590 16620 16650 16680 16710 16740 16770 16800 16830 16860 16890 16920 16950 16980 17010 17040 17070 17100 17130 17160 17190 17220 17250 17280 17310 17340 17370 17400 17430 17460 17490 17520 17550 17580 17610 17640 17670 17700 17730 17760 17790 17820 17850 17880 17910 17940 17970 18000 18030 18060 18090 18120 18150 18180 18210 18240 18270 18300 18330 18360 18390 18420 18450 18480 18510 18540 18570 18600 18630 18660 18690 18720 18750 18780 18810 18840 18870 18900 18930 18960 18990 19020 19050 19080 19110 19140 19170 19200 19230 19260 19290 19320 19350 19380 19410 19440 19470 19500 19530 19560 19590 19620 19650 19680 19710 19740 19770 19800 19830 19860 19890 19920 19950 19980 20010 20040 20070 20100 20130 20160 20190 20220 20250 20280 20310 20340 20370 20400 20430 20460 20490 20520 20550 20580 20610 20640 20670 20700 20730 20760 20790 20820 20850 20880 20910 20940 20970 21000 21030 21060 21090 21120 21150 21180 21210 21240 21270 21300 21330 21360 21390 21420 21450 21480 21510 21540 21570 21600 21630 21660 21690 21720 21750 21780 21810 21840 21870 21900 21930 21960 21990 22020 22050 22080 22110 22140 22170 22200 22230 22260 22290 22320 22350 22380 22410 22440 2247

Dist. 3
Oil Co. N. Co.
801 N. Ave.
Kittling

[illegible]

1. The first part of the document is a letter from the President of the United States to the Congress, dated January 1, 1861. It is a copy of the original letter, and is signed by Abraham Lincoln.

PAPERBACK \$6.95

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 balling.

HISTORY OF OIL OR GAS WELL

16-48084-2 U. S. GOVERNMENT PRINTING OFFICE

FROM-	TO-	TOTAL FEET	FORMATION
			<p>1. 0-10' Sandstone, yellowish, medium bedded, contains small pebbles of quartz and chert.</p> <p>2. 10-20' Sandstone, yellowish, medium bedded, contains small pebbles of quartz and chert.</p> <p>3. 20-30' Sandstone, yellowish, medium bedded, contains small pebbles of quartz and chert.</p> <p>4. 30-40' Sandstone, yellowish, medium bedded, contains small pebbles of quartz and chert.</p> <p>5. 40-50' Sandstone, yellowish, medium bedded, contains small pebbles of quartz and chert.</p> <p>6. 50-60' Sandstone, yellowish, medium bedded, contains small pebbles of quartz and chert.</p> <p>7. 60-70' Sandstone, yellowish, medium bedded, contains small pebbles of quartz and chert.</p> <p>8. 70-80' Sandstone, yellowish, medium bedded, contains small pebbles of quartz and chert.</p> <p>9. 80-90' Sandstone, yellowish, medium bedded, contains small pebbles of quartz and chert.</p> <p>10. 90-100' Sandstone, yellowish, medium bedded, contains small pebbles of quartz and chert.</p>

GEOLOGICAL TOPS (Schlumberger)

Point Lookout	959	#5266
Mancos	1086	#5139
Gallup Zone	1972	#4252
Massive Gallup ss	2206	#4019
Sanastee	2519	#3706
Greenhorn	2886	#3339
Graneros	2974	#3251
Dakota	3088	#3137
Morrison	3221	#3004
T. D. Driller	3250	

RECEIVED

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U. S. GEOLOGICAL SURVEY
 FARMINGTON, NEW MEXICO

Lithology

Menefee	Surface to 240	Shale, grey, bentonite, fis, interbedded with sandstone very fine grained with much white silty cement
Point Lookout	959 to 1086	Sandstone, white with few black grains, medium grained, very clean becoming dirtier and more calcareous toward base.
Mancos	1086 to 1900	Interbedded sandstone, siltstone and shale, shales are brown and grey bentonite fissures with carbonaceous inclusions, siltstones are grey, hard sandy, calcareous, sandstone are very fine grained hard, tight and calcareous
Gallup Zone	1972 to 2126	Interbedded sandstone and shale, shale grey carbonaceous fissure, sandstone, figrd, silty, carbonaceous, friable, numerous large angular white and green fractured quartz grains throughout
Massive Gallup	2206 to 2250	Sandstone, medium grained, white, very clean with dark brown stain top 4', no cut or odor or fluor.
Mancos	2250 to 2519	Shale dark grey carbonaceous non-calcareous with occasional sandstone stringers.
Sanastee	2519 to 2670	Interbedded shale, limestone and sandstone shale is black, carbonaceous fissures, limestone is brown and grey dense, no porosity, sandstone, very fine grained, white, dirty, calcareous
Greenhorn	2670 to 2886	Shale, black, carbonaceous fissures with occasional sandstone stringers.
Graneros	2940 to 3021	Shale, black, carbonaceous fissures, sandstone, fine grained, light grey, slightly silty, slightly calcareous, very friable, shale, black, carbonaceous fissures, some bentonite (green) shale

CORES:

2126-66; rec 39'; 1½' sandstone and shale, reworked with 4' shale at 57' mark, above shale hard and tight, very fine grained; below shale sandstone was friable, wet, drity, very silty with wood fragments and carbonaceous inclusions; 1' coal; 4' sandstone with scattered thin shale laminations throughout; fine grained light grey very silty good porosity and permeability, very friable slightly cross bedded well sorted sub rounded sub angular grains ½' shale black carbonaceous fissures; 2½' sandstone and shale coarsely reworked hard tight sandstone as above carbonaceous inclusions; 2' sandstone and shale finely interlaminated sandstone as above wel; 1' sandstone and shale reworked; 1½' shale black carbonaceous fissures; 1' sandstone fine grained light grey silty with much carbonaceous material and mica included slightly glauconitic, wet; 2½' sandstone and shale, reworked, wet sandstone as above 1' sandstone fine grained light grey silty white cemented material, good porosity and permeability, slightly glauconitic wet numerous light wood fragments included; ½' sandstone and shale finely interlaminated; 1½' sandstone as above with few thin shale laminations throughout, no wood fragments; ½' sandstone and shale reworked, hard, tight, 1½' shale, black, carbonaceous fissures, 3' sandstone and shale finely interlaminated slightly reworked, wet, sandstone fragments, light grey very silty, very glauconitic, top ft; 2' shale black carbonaceous hard dense with thin sandstone stringers interlaminated; 3' sandstone, fine to medium grained light grey silty sub rounded sub angular grains.....

RICHARDSON-FEDERAL #1
McKinley County, New Mexico

Core Continued

poorly sorted, very friable, wet with few thin shale laminations throughout; 2' sandstone and shale finely interlaminated; 1' shale, black, carbonaceous, fissures.

DRILL STEM TESTS

NONE

COMPLETION RECORD:

This well was drilled to a total depth of 3251 feet and no commercial shows encountered. Plugged and abandoned as follows:

Cement plugs:

2900-3100
1050-1200
46-146

Regulation pipe marker cemented in place. PLUGGED AND ABANDONED: August 26, 1958