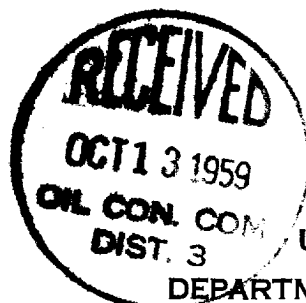


U. S. LAND OFFICE Santa FeSERIAL NUMBER 02758

LEASE OR PERMIT TO PROSPECT



UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

U. S. GEOLOGICAL SURVEY
FARMINGTON, NEW MEXICO

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company International Oil Corporation Address Republic Bank Building
Dallas, TexasLessor or Tract E. E. Regelson Field Wildcat State New MexicoWell No. #1 Sec. 27 T. 30 N. R. 11 W. Meridian NMPN County San JuanLocation 950 ft. N. of S. Line and 980 ft. W. of E. Line of Section 27 Elevation 5987
(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 Charles TerquemDate October 9, 1959 Title Authorized Agent

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

Commenced drilling August 12, 1959 Finished drilling September 20, 1959

TOPS OF OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from <u>Kirtland</u> <u>1089</u>	No. 4, from <u>Sanastee</u> <u>6312</u>
<u>Pictured Cliffs</u> <u>2308</u>	<u>Greenhorn</u> <u>6642</u>
No. 2, from <u>Mesa Verde</u> <u>3905</u>	No. 5, from <u>Graneros Shale</u> <u>6701</u>
No. 3, from <u>Point Lookout</u> <u>4650</u>	No. 6, from <u>Graneros Sand</u> <u>6767</u>
<u>Mancus</u> <u>4885</u>	<u>Dakota</u> <u>6825</u>
<u>Gallup</u> <u>5900</u>	<u>Morrison</u> <u>7051</u>
No. 1, from _____ 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	
9 7/8"	32#	8		239'	Reg.				Surface
5 1/2"	17#	8	I-55	616'	Reg.				Production
5 1/2"	15.5#	8	I-55	682'	Reg.				Production
HISTORY OF OIL OR GAS WELL									

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
9 7/8"	252'	120	Plug		
5 1/2"	6435'	100	Plug		
5 1/2"	7071'	600	Plug		

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 7080 feet, and from _____ feet to _____ feet

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

DATES

See Well History 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, °Be. _____

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

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

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

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	255	255	Surface
255	1068	813	Sand & Shale
1068	1088	20	Chert, Sand & Shale
1088	6995	5907	Sand & Shale
6995	7080	85	Sand & Chert
FORMATION TOPS			
		Kirtland	1089
		Pictured Cliffs	2308
		Mesa Verde	3905
		Point Lookout	4650
		Mancus	4885
		Gallup	5900
		Tocito	6168
		Sanastee	6312
		Greenhorn	6642
		Graneros Shale	6701
		Graneros Sand	6767
		Dakota	6825
		Morrison	7051

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
			1000' to 1050' ... 1050' to 1100' ... 1100' to 1150' ... 1150' to 1200' ... 1200' to 1250' ... 1250' to 1300' ... 1300' to 1350' ... 1350' to 1400' ... 1400' to 1450' ... 1450' to 1500' ... 1500' to 1550' ... 1550' to 1600' ... 1600' to 1650' ... 1650' to 1700' ... 1700' to 1750' ... 1750' to 1800' ... 1800' to 1850' ... 1850' to 1900' ... 1900' to 1950' ... 1950' to 2000' ...
			2000' to 2050' ... 2050' to 2100' ... 2100' to 2150' ... 2150' to 2200' ... 2200' to 2250' ... 2250' to 2300' ... 2300' to 2350' ... 2350' to 2400' ... 2400' to 2450' ... 2450' to 2500' ... 2500' to 2550' ... 2550' to 2600' ... 2600' to 2650' ... 2650' to 2700' ... 2700' to 2750' ... 2750' to 2800' ... 2800' to 2850' ... 2850' to 2900' ... 2900' to 2950' ... 2950' to 3000' ...

CORRELATION RECORD

EMPLOYEES

HISTORY OF OIL OR GAS WELL

Spudded at 4 A.M. 8-13-59. Cemented XXX 9 5/8" 32# casing @ 252' w/120 sacks regular cement, 2% calcium chloride. Plug down at 12 Noon 8-13-59.

8-14-59 - Casing tested w/800# for 30 minutes. Held ok.

9-20-59 - Drilled to TD 7080'. Ran Induction Electrical & Sonic Logs.

9-22 - Ran 220 joints of 5 1/2" 15.5# and 17# casing as follows:

0 to 6455' 15.5#

6455' to 7071' 17#

DV Tools at 2440' and 4991'. Scratchers from 6750 to 7071 and from 4860 to 4900'. Centralizers on the collars of the following joints:

Bottom Joint

Fourth Joint from Bottom

Seventh Joint from Bottom

Tenth Joint from Bottom

First Joint below DV Tool at 4991'

First Joint above DV Tool at 4991'

First Joint below DV Tool at 2440'

First Joint above DV Tool at 2440'

9-22 - Cemented around shoe w/310 sacks 50% common cement and 50% posmix, 4% Howegel and 12% Gilsonite per sack. Cemented through DV Tool @ 4991' w/290 sacks. Plug down at 1:30 P.M. 9-22. Temperature survey showed top of cement at 4050'. Cemented through DV Tool @ 2440' w/100 sacks 50% cement, 50% posmix. Plug down at 1:00 A.M., 9-23-59.

9-24 - Drilled out DV plugs and tested casing w/3500#. Held ok. Cleaned out to 7031'.

9-25 - Perforated with Dowell abrasive gun 2 holes @ 6934', 3 holes @ 6892', and 3 holes @ 6890'.

(Continued below)

HISTORY OF OIL OR GAS WELL

16-43004-2 U. S. GOVERNMENT PRINTING OFFICE

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 "detacked" 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 testing.

9-26 - Frac'd w/55,000# 20-40 sand and screened out when 40,000# of sand was put away in formation, leaving 15,000# of sand in casing. Sand carried in 27,000 gal. gelled water. EHP - 2400 to 3500; TP - 3500 to 2800 to 4000; IFP - 3500#; Instant pressure before sand started - 1400#; AIR - 46 BPM; S/W ratio - 2#.

9-27 - Set bridge plug above perforations at 6890'. Perforated 3 abrasive jets per ft. at 6834', 6836', 6838', 6840', 6842', and 6844' - total of 18 holes. Frac'd w/100,000# 20-40 sand and 55,000 gal. gelled water. BDP - 1500#; TP - 3200 to 2400 to 2900#; IFP - 1500#; AIR - 56 BPM; S/W ratio - 1.9. Set bridge plug above perforations at 6834'. Perforated 3 holes per ft. at 6768', 6770 and 6772.

9-28 - Tried to pump through perforations at 6768 to 6772 but could not do so. Ran measuring line, found hole filled up to 6733'. Ran tubing and washed out to 6783'. Pulled tubing and tried to frac again. Formation would take 2 bbls per min. at 3800# but would not break. Ran tubing and found clean to 6783'. Pulled tubing and had Schlumberger perforate 60 holes from 6765' to 6772'. Formation would then take 20 bbls per minute at 2400#.

9-29 - Frac'd w/125,000# 20-40 sand and 81,900 gal. water. Flushed w/8100 gal water. BDP 2200 to 1600#. TP 3100 to 2700 to 3200#. ISIP - 1750#. AIR - 94 BPM; S/W ratio - 1.5. Unloaded hole with gas.

10-2 - After blowing well on bottom for 4 hrs. gas gauged 630 MCF. Drilled top of plug at 6786'.

10-3 - Gas volume after drilling bridge plug at 6786' was 1215 MCF. Drilled bridge plug at 6864' and cleaned out sand to 7031'.

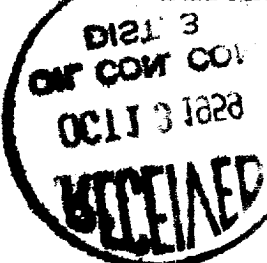
10-4 - Blew well w/gas 6 hrs. after cleaning out to 7031'. Gas volume 1254 MCF. Ran 2 3/8" QD 8 7/8" tubing to 6769'. Pumped Otis plug out of tubing and then shut in. The official OCC potential will be reported on Form 9-331a as soon as it is obtained.

LOG OF OIL OR GAS WELL

GEOLOGICAL SURVEY

DEPARTMENT OF THE INTERIOR

DRILLED SITES



RECEIVED
OCT 13 1959
DISTRICT OFFICE