

NOV 26 1962

U. S. LAND OFFICE Navajo Tribal

SERIAL NUMBER 14-20-603-741

LEASE OR PERMIT TO PROSPECT

U. S. GEOLOGICAL SURVEY
FARMINGTON, NEW MEXICO

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

NOV 28 1962
OIL CON. COM.
DIST. 3

Sec. 34	
• #1	

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Skelly Oil Company Address Box 38 - Hobbs, New Mexico
 Lessor or Tract Navajo "O" Field Wildcat State New Mexico
 Well No. 1 Sec. 34 T. 26N R. 14W Meridian N.M.P.M. County San Juan
 Location 990 ft. ^[N.]_[S.] of S Line and 1650 ft. ^[E.]_[W.] of W Line of Section 34 Elevation 6282 D.P.
(Descrip. See relative to sec. 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 (s) H. E. Abo
Date November 23, 1962 Title Dist. Supt.

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

Commenced drilling August 19-----, 19 62 Finished drilling October 6-----, 19 62

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from Dry Hole to Dry Hole No. 4, from _____ to _____
 No. 2, from _____ to _____ 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
10-3/4"	1246'	700	Pump & 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
No Treatments						

TOOLS USED

Rotary tools were used from 0 feet to 11,202 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

-----, 19----- Put to producing **Box Hole** -----, 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

D. W. Myers	Driller	T. C. Rowland	Driller
A. H. Ehler	Driller		Driller

FORMATION RECORD

FROM-	TO-	TOTAL FEET	FORMATION
0	3678	3678	Sand & Shale
3678	3818	3818	Sand & Shale Top Point Lookout
3818	4758	4758	Sand & Shale Top Mancos
4758	4842	4842	Sand & Shale Top Upper Gallup
4842	5178	5178	Sand & Shale Top Lower Gallup
5178	5560	5560	Sand & Shale Top Sanatee
5560	5614	5614	Sand & Shale Top Greenhorn
5614	5690	5690	Sand & Shale Top Ganeros
5690	5782	5782	Sand & Shale Top Dakota 1
5782	5902	5902	Sand & Shale Top Dakota 2
5902	5938	5938	Sand & Shale Top Dakota 3
5938	6862	6862	Sand & Shale Top Dakota 4
6862	6890	6890	Sand & Shale Top Morrison
6890	7018	7018	Sand & Shale Top Todilto
7018	8034	8034	Sand & Shale Top Entrada
8034	8068	8068	Sand & Shale Top Charlie
8068	8274	8274	Sand & Shale Top Chinle
8274	8613	8613	Sand & Shale Top Shinarump
8613	9848	9848	Sand & Shale Top Moenkops
9848	11,055	11,055	Sand & Shale Top DeChelly
11,055	11,136	11,136	Sand & Shale Top Cedar Mesa
11,136	11,250	11,250	Sand & Shale Top Upper Permian
11,250	11,282	11,282	Sand & Shale Top Nolas
11,282	11,282	11,282	Sand & Shale Top Mississippian
			Sand & Shale Top Cambrian Ignacio
		Total Depth	Geological Tops By Schlumberger
			Induction Electrical Log.

FORMATION RECORD-Continued

FROM-	TO-	TOTAL FEET	FORMATION
CORE NO. 1 - 10,735 - 10,770' - (321) - Recovered 14'; Top 5 1/2' - Limestone - medium gray, dense fossiliferous, fractures filled with shale & calcite with some dead oil. Next 1 1/2' - Shale-black rotten with some fossils. Next 1 1/2' - Limestone-medium gray to brown with medium grain crystalline with few fossils and few vugs filled with dead oil. Some bleeding gas, from vugs. Next 1/2' - Sandstone-white coarse grained hard & tight. No porosity or show. Next 1' - Limestone-dark gray & dense with few fossils and traces of vugs with some bleeding gas. Next 1/2' - Sandstone-white coarse grained hard & tight. No porosity or show. Next 1' - Limestone-dark gray dense with small hairline fractures filled with calcite and some dead oil. Core lab's analysis of 4' of core from 10,745-10,752'.	10,735-49' (Limest) 0.01 10,749-50' (do) 0.01 10,750-51' (do) 0.01 10,751-52' (Sandstone) 0.01 Had no show of live oil in core.	1.7 0.8 0.7 1.9 0 0 0 0.11	Water 57% 75% 69% 69%
CORE NO. 2 - 11,097' - 11,128' - (311) - Recovered 11-1/2'	Limestone & Shale - Mottled gray, green, purple, Maroon, fossiliferous orange chert.		
6'-	Limestone & Shale - Mottled gray, green, purple, Maroon, fossiliferous orange chert.		
1'-	Shale - Dark grayish & purple.		
1'-	Limestone - Gray, green, dense to medium crystalline chert, fossiliferous, hard & tight.		
1'-	Limestone & Shale - Mottled - same as above.		
2-1/2'	Limestone - Gray, green, dense, hard & tight. No fossils with some dark gray chert.		
CORE NO. 3 - 11,128' - 11,132' - (411) - Recovered 3-3/4'	3-3/4' - Shale - Brownish maroon & orange chert with fractures filled with calcite.		
DRILL STEM TEST NO. 1 - 11,140' - 11,282'	3/8" BHC, 1" THC. 2000' water blanket. Tool open 3 hrs. with very slight air blow after 12 min. which lasted 15 min. & died with no further blow through test. Recovered 2000' water blanket, 330 heavy gas cut mud & 395' gas cut muddy salt water. Gas in mud tested out 54.5%.		
DRILL STEM TEST NO. 2 - 10,546' - 10,756'	3/8" BHC, 1" THC. Using saddle packer and 1500' water blanket. Tool open 1-1/2 min. with very slight air blow & upper packer failed. Filled 4-1/2" OD drill pipe & recovered 1500' water blanket & 550' mud with no shows.		
DRILL STEM TEST NO. 3 - 10,515' - 10,823'	3/8" BHC, 1" THC. 1500' water blanket & 4-1/2" OD drill pipe. Opened tool for 1 hour & had very slight air blow at end of first hour. Closed tool for 1 hr. ISIP. Responded tool for 3 hrs. with no air flow for 45 min. then had a strong air blow for remainder of 3 hr. test. Recovered 1500' water blanket, 150' water, 90' muddy water & 180' medium gas cut mud. 1 hr. ISIP 1590#, 1 hr. ISIP 1390#. IFF 880#, IFF 905#. H.P. in and out 5195%.		
DRILL STEM TEST NO. 4 - 2310' - 2603'	3/4" BHC, 1" THC. 4-1/2" OD drill pipe & no water blanket. Testing zone for water for Nava Jo Tribe. Tool open 1 hr. with fair air blow throughout test. No fluid to surface. Took 30 min. shut in pressure test. Filled tool and recovered 270' mud with no shows of water, gas or oil. IFF 90#, no final flow pressure recorded. 30 min. SI pressure 660# H.P. in & out 1190#.		
Spotted cement plugs as follows:	11,282' - 10,823' - 180 sacks cement 10,775' - 10,675' - 55 sacks cement 9,900' - 9,800' - 55 sacks cement 8,325' - 8,225' - 55 sacks cement 6,900' - 6,800' - 55 sacks cement 5,700' - 5,600' - 55 sacks cement 4,900' - 4,800' - 55 sacks cement		

HISTORY OF OIL OR GAS WELL

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.

2,750' - 2,603'	100 sacks cement
1,450' - 1,300'	7 1/2 sacks cement
TOTAL	685 sacks cement

Run 15 sacks cement cap and installed 4" pipe marker. All intervals not filled with cement plug were filled with heavy sand and lead. Drilling operations were completed on October 16, 1962.

Verbal approval to plug and abandon this well were secured from Mr. Richard Krehl.

Geological Survey
Department of the Interior
UNITED STATES
WASHINGTON, D.C. 20548