

R-34-E

COPY TO O. C. C.

NOTED

NOV 7 1960

Budget Bureau No. 42-R355.4.
Approval expires 12-31-60.U. S. LAND OFFICE New MexicoSERIAL NUMBER 10-06103

LEASE OR PERMIT TO PROSPECT

STANDLEY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Shell Oil Company Address Box 845, Roswell, New Mexico
Lessor or Tract Collins-Federal Field Wildest State New Mexico
Well No. 1 Sec. 19 T. 8S R. 34E Meridian NMPM County Roosvelt
Location 1980 ft. N. of S Line and 1980 ft. W. of E Line of Section 19 Elevation 4320'
(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.

Original Signed By
Signed R. A. Lowery R. A. LOWERYDate November 3, 1960Title District Exploitation Engineer

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

Commenced drilling July 17, 1960 Finished drilling September 10, 1960

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from _____ to _____ 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

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
13 3/8"	48#	8rd	Youngstown	281'					Surface String
8 5/8"	32#	8rd	Long Star	383'	Orin				Salt String
5 1/2"	15.5#	8rd	Republic	9528'	Larkin				Oil String
	17#								

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13 3/8"	294'	325	Pump & Plug	Cemented to surface	
8 5/8"	3883'	850	Pump & Plug	Cemented to surface	
5 1/2"	9539'	250	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

TOOLS USED

Rotary tools were used from 0 feet to 9540 feet, and from _____ feet to _____ feet

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

DATES

November 3, 1960 Put to producing November 3 & 4, October 27, 1960The 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

_____, Driller _____, Driller

_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	160	160	Caliche & Surface gravel
160	2092	1932	Red Beds, Sand, Shale, Limestone
2092	2564	472	Anhydrite, Salt
2564	3752	1188	Sand, Anhydrite
3752	3890	138	Dolomite, Sand, Anhydrite
3890	4300	410	Anhydrite, Shale
4300	4600	300	Dolomite
4600	4690	90	Limestone
4690	4700	10	Dolomite
4700	4750	50	Limestone
4750	4850	100	Dolomite, Limestone
4850	7290	2440	Limestone, Dolomite, Anhydrite, Silt, Sand, Shale
7290	8050	760	Shale, Silt, Sand, Dolomite, pred. Shale
8050	8490	440	Dolomite w/ silt & shale
8490	8610	120	Dolomite w/ silt, shale & chert
8610	9540	930	Limestone, Shale
LOG TOPS			
Test	2564' (+1753')		
San Andres	3752' (+570')		

HISTORY OF WELL

Spurred w/rotary tools @ 4:00 PM, 7-17-60. Drilled to 294' w/17 1/2" bit and cemented 13 3/8" casing @ 294' w/325 sx. Drilled w/11" bit to 3880'. Ran MLT, GR/LT & GR/ Acoustic surveys @ 3880'. Cemented 8 5/8" casing @ 3880' w/850 sx. Drilled ahead w/7 7/8" bit.

Ran DST # 11 4047' - 4600' (153' San Andres). Tool open 2 hours 35 minutes through 1 1/4" to 5/8" BC, 1 1/2" IS. Opened w/water blow & continued throughout test. Recovery 240' (2.3 bbls.) slightly oil & water cut and 60' (0.5 bbl.) mud cut. Sulfur meter. 60 minutes ISHP 1520 psi. PUMP 150 - 220 psi (increasing). 60 minutes ISHP 1340 psi (increasing). BIT 136 deg. Conclusive Test. (Cook)

Ran GR/N, LT & MLT surveys @ 8971'. Cored w/7 7/8" core barrel 9120' - 9215'. DST # 8 9171' - 9215' (14' Pennsylvanian). Tool open 2 1/2 hours through 5/8" BC, 1 1/4" 26, 1 1/2" IS. Opened w/water blow & closed in 3 minutes. After ISHP tool opened w/no blow. Appressed packers after 15 minutes and got no blow. Recovery 40' (0.3 bbl.) drilling mud w/no show. 60 minutes ISHP 340 psi (increasing). FHP 0 - 60 psi (increasing). 60 minutes ISHP 100 psi. HNH 5060 psi. Recovery mud 85,000 ppm CI. P1t and 82,000 ppm CI. Maximum BHT 200 deg. F. Conclusive Test. (Cook)

Cored 9215' - 9255'. DST # 7 9229' - 9255' (26' Pennsylvanian). Tool open 1/2 hour through 5/8" BC, 1 1/4" 26, 1 1/2" IS. Opened w/water blow & closed in 3 minutes. After ISHP tool opened w/no blow. Appressed packers after 15 minutes and got no blow. Recovery 40' (0.3 bbl.) drilling mud w/no show. 60 minutes ISHP 340 psi (increasing). FHP 0 - 60 psi (increasing). 60 minutes ISHP 100 psi. HNH 5060 psi. Recovery mud 85,000 ppm CI. P1t and 82,000 ppm CI. Maximum BHT 200 deg. F. Conclusive Test. (Cook)

Cored 9255' - 9351'. DST # 6 9229' - 9351' (96' Pennsylvanian). Tool open 30 minutes through 5/8" BC, 1 1/4" 26, 1 1/2" IS. Opened w/no blow. After 15 minutes appressed packers, weak blow died in 2 minutes. Recovered 100' (0.8 bbl.) drilling mud w/no show. P1t and 88,000 ppm CI. Recovery filtrate filtrate 80,000 ppm CI. 60 minutes ISHP 340 psi. FHP 20 - 40 psi. 60 minutes ISHP 340 psi. HNH 4780 psi. Maximum BHT 198 deg. F. Conclusive Test. (Cook)

Ran GR/N, LT surveys @ 9198'. Drilled to 9540' w/7 7/8" bit. Ran MLT, diameter & velocity surveys @ 9530'. Generated 5 1/2" casing @ 9530' w/250 sx. PRTD 9503'. Ran 2 1/2" tubing, tested casing w/3000 psi for 30 minutes. OR. Displaced water w/oil & spotted 250 gallons 15% BVA. Pulled tubing. Ran GR/CL survey. Perforated 9192' - 9200' w/1-1/2" jet shots per foot. Ran 2 1/2" tubing w/Hookwell packer & displaced acid to formation. Ran pump & tested 9-22-60 to 10-10-60. Well pumped from 0 - 3 BOPD + 370 - 400 BOPD. Pulled tubing & pump.

Ran Magnetometer & free point surveys. Shot off and pulled 4594' of 5 1/2" casing. Spotted cement plugs as follows: 25 sx. 4800' - 4910' & 3930' - 36391' to sx. 9. Erected prescribed surface marker.

Well completed plugged and abandoned October 27, 1960.

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 bailing.