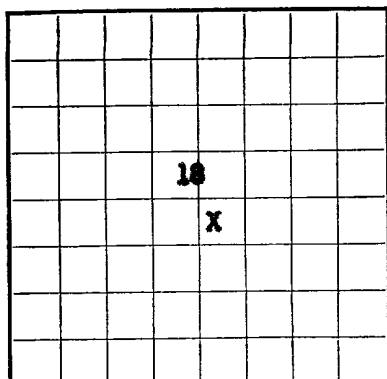


U. S. LAND OFFICE **Santa Fe, N.M.**
SERIAL NUMBER **SF-078062**
LEASE OR PERMIT TO PROSPECT



RECEIVED
JAN 31 1962
OIL CON. COM.
DIST. 3 DEPA

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Shell Oil Company Address P. O. Box 1200, Farmington, N.M.
Lessor or Tract Carson Unit Field Histi State New Mexico
Well No. 4-5 Sec. 18 T. 23N R. 11W Meridian NMPM County San Juan
Location 2117 ft. N of S Line and 2226 ft. EX of E Line of Sec. 18 Elevation 6398.5 KB
(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.

Complete and correct record of the work and all work done thereon
records.
Original Signed By
Signed W. M. Marshall
W. M. Marshall Title Division Exploitation Engineer

Date _____

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

Commenced drilling July 2, 1961 Finished drilling July 9, 1961

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 2824 to 3744 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	71	50	Displacement		
7	3848	275	Displacement		

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 3949 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

Put to producing November 1, 1961

The production for the first 24 hours was 3025 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 Great Western Drilling Co., Driller
_____, Driller _____, Driller

FORMATION RECORD

[illegible]

See Attached Drilling History

SHELL OIL COMPANY

Water Well
WELL NO. W-5

DRILLING REPORT

FOR PERIOD ENDING

7-9-61

Bisti

(FIELD)

San Juan, New Mexico

(COUNTY)

18

(SECTION OR LEASE)

T. 25 N., R. 11 W.

(TOWNSHIP OR RANCHO)

DAY	DEPTHS		REMARKS
	FROM	TO	
			<p>Location: 2117' N., 2226' W. of SE corner Section 18, T. 25 N., R. 11 W., N.M.P.M., San Juan County, New Mexico.</p> <p>Elevations: KB 6398.5 DF 6396.4 GR 6389.56</p>
7-2 to 7-3	0	1195	Spudded 5:30 P.M. 7-2-61. Ran and cemented 10-3/4", H-40, 40.5# conductor pipe at 71' with 50 sacks cement treated with 2% calcium chloride. Good cement returns to surface. Flanged up and waited on cement.
7-4 to 7-8	1195	3849	<u>Drilled 2654'</u> . Ran Induction Electrical Survey and Microlog.
7-9	3849 (TD)		Ran and cemented 7", J-55, 23# ST & C casing at 3848', with 225 sacks cement treated with 20% Diacel D and 2% calcium chloride followed with 50 sacks cement treated with 2% calcium chloride. Bumped plug with 2000 psi, o.k.. Released rig at 3:30 A.M. 7-9-61.
			<p><u>Mid Summary</u> Wt. 8.7-9.6#/gal. Vis. 38-40 sec. WL 8-9 cc FC 2/32"</p> <p>Contractor: Great Western Drilling Company Contract Pusher: E. H. Leseberg Drillers: B. O. Talent G. G. Ellis L. B. Wells Company Pusher: J. E. Dozier, Jr.</p>
			End

CONDITION AT BEGINNING OF PERIOD

HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
13-3/4" 9"	0 71'	71' 3849'	10-3/4" 7"	71' 3848'
DRILL PIPE SIZES				
4"				

J. L. Thurber

979
SIGNED

SHELL OIL COMPANY

Water Well

WELL NO. W-5

DRILLING REPORT
 FOR PERIOD ENDING

November 14, 1961

Bisti

(FIELD)

San Juan, New Mexico

(COUNTY)

18

(SECTION OR LEASE)

T. 25 N., R. 11 W.

(TOWNSHIP OR RANCHO)

DAY	DEPTHS		REMARKS
	FROM	TO	
10-25			Perforated 25 3/8" holes in interval 2824' to 3744. Ran tubing to spot acid.
10-26			Spotted 2,000 gallons of inhibited 15% HCL through tubing hung at 3748. Sand water fractured interval with 100,000 gallons water 1-1/2 lb. per gallon 10-20 sand. Maximum pressure 1200 psi; average rate 72 BPM. Dropped 20 rubber balls in 4 batches; one 200 psi increase. Displaced sand from casing with 107 barrels water SIP 1500 psi. Shut in over night. Pressure after 14 hours, zero.
10-27			Bailed frac. sand 3681' to 3775'. Let stand over night
10-28			Checked fill at 3752', laying down tubing.
10-30			While running pump damaged Maihak connection after 10 stands in hole. Pulled and repaired. Running pump.
10-31			Ran B-J pump on 3" tubing with pump suction at 2783'. Started pump.
11-1			Pumped 18 hours at 3025 B/D rate
11-2 to 11-11			Testing pump. Representative Rate 2730 B/D
11-12			Finished filling frac. tank. Preparing to pull pump for refrac.
11-13			Pulled B-J pump. Checked fill at 3800' with bailer
11-14			Sand-water fractured interval 2824-3744 (25 3/8" perfs) with 100,000 gallons water with 1-1/2 lb. per gallon 10-20 sand. Maximum pressure 3500 psi. Average rate 48 BPM. Dropped 10 balls in 2 batches, 5 each. Pressure increased from 2300 to 2600 after first batch, from 2600 to 3500 psi. after second batch. Displaced sand with 108 bbls. water. ISIP 1200 psi. Pressure bled off to 175 psi. after 2 hours. Bled remainder of pressure off. Ran bailer. Found sand at 3640. Bailing.

CONDITION AT BEGINNING OF PERIOD

HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
DRILL PIPE SIZES				

SIGNED

SHELL OIL COMPANY

Water Well
WELL NO. W-5

DRILLING REPORT
FOR PERIOD ENDING

Bisti
(FIELD)
San Juan, New Mexico
(COUNTY)

December 8, 1961

18
(SECTION OR LEASE)
T. 25 N., R. 11 W.
(TOWNSHIP OR RANCHO)

DAY	DEPTHS		REMARKS
	FROM	TO	
11-15			After standing over night found sand at 3538 bailed to 3610: Bailing
11-16			Bailed frac. sand to 3750. Preparing to run pump
11-17			Assembled B-J pump and Mahiak and ran in hole to 1024'. Delayed by snow and wind.
11-18			Finished running pump on 3" plastic coated tubing. Suction at 2783', Started pump.
11-19			Pumped 3600 B/D rate. TP 130. Making sand. Increased TP to 250 and retested at 3288 B/D rate.
11-20 to 12-8			Testing pump. Representative Rate 2750 B/D.

CONDITION AT BEGINNING OF PERIOD				
HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
DRILL PIPE SIZES				

SIGNED