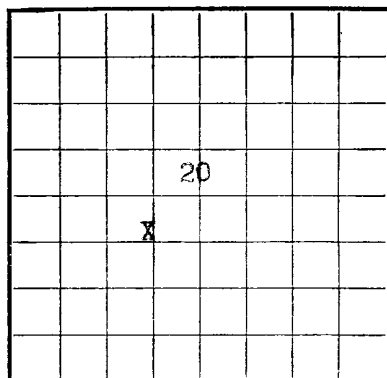


U. S. LAND OFFICE Santa Fe, N. M.
SERIAL NUMBER 5F C78061
LEASE OR PERMIT TO PROSPECT _____



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Shell Oil Company Address 101 E. Behrend, Farmington, N. M.
Lessor or Tract Federal Field Bisti State New Mexico
Carson Unit
Well No. 23-20 Sec. 20 T. 25N R. 11W Meridian NMNM County San Juan
Location 1277 ft. [N.] of S Line and 1766 ft. [E.] of W Line of Sec. 20 Elevation 6454.8 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.

Signed B. W. Shepard

Date September 13, 1957 Title Exploitation Engineer

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

Commenced drilling March 10, 19 57 Finished drilling March 20, 19 57

(Gross) OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 4870 to 4934 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. 2, from _____ to _____

No. 3, from None 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
8-5/8		150	Displacement	-	-
5-1/2	5059	200	Displacement	-	-

PLUGS AND ADAPTERS

~~Hearing plug~~—Material Cement Length _____ Depth set 5030
Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
			None			

TOOLS USED

Rotary tools were used from 0 feet to 5030 feet, and from feet to feet.
Cable tools were used from feet to feet, and from feet to feet.

DATES

September 13, 1957 Put to producing August 7, 1957

The production for the first 24 hours was 51 barrels of fluid of which 9.7 % was oil; % emulsion; % water; and 0.3 % sediment. Gravity, 86.4 °API

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

Rock pressure, lbs. per sq. in. _____ ^{cap} _____

EMPLOYEES New Drilling Co.

C. L. Rosenbaum	Driller	C. F. Phillips	Driller
H. C. Phillips	Driller		Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
1114	1288	174	Pictured Cliffs
1288	1447	159	Lewis
1447	1981	534	Cliff House
1981	3592	1611	Allison Menefee
3592	3758	166	Point Lookout
3758	4664	906	Mancos
4664	-	-	Gallup

SHELL OIL COMPANY

CARSON UNIT

WELL NO. 23-20

Bisti - Carson Unit

DRILLING REPORT

FOR PERIOD ENDING

20

(FIELD)
San Juan, New Mexico

3-22-57

(SECTION OR LEASE)
T25N, R11W

(COUNTY)

(TOWNSHIP OR RANCHO)

DAY	DEPTHS		REMARKS
	FROM	TO	
57			
3-10 to 3-11	0	1500	<u>Location:</u> 1977' N and 1766' E of SW Corner Section 20, T25N, R11W, NMPM, San Juan County, New Mexico. <u>Elevations:</u> DF 6453.1 MAT 6442.5 KB 6454.8 <u>Drilled 1500'.</u> Spudded 1:30 P.M. 3-10-57. Ran and cemented 5 jts. (198') 8-5/8", 28#, J-55 casing at 211 with 150 sacks treated construction cement. Flanged up and waited on cement. Pressure tested casing and blow out equipment with 700 psi for 15 minutes, OK.
3-12 to 3-20	1500	5075	<u>Drilled 3575'.</u> Twisted off at 4565' leaving 7 drill collars and 2-1/2 stands of drill pipe in hole, recovered with overshot.
3-21	5075	TD	Ran Schlumberger Electrical Survey and Microlog. Ran and cemented 158 jts. (5048') 5-1/2", 14#, J- 55, casing at 5059' with 200 sacks construction cement. Displaced cement with oil. Tested plug with 1500 psi for 15 minutes, OK.
3-22			Ran gamma ray log with collar. Perforated four 1/2" holes/ft. interval 4870-4890, 4902-4909, 4940-4947, 4955-4969 and 4974-4984. Swabbed 4-1/2 hours, no fluid entry. Released rig 5:30 P.M. 3-22-57. Checked BOP daily Mud Summary Wt. 9.6#/gal. Vis. 43-58 sec. Contractor: New Drilling Co. G. L. Rosenbaum H. G. Phillips C. E. Phillips

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



R. D. Allen

SIGNED

DRILLING REPORT

FOR PERIOD ENDING

8-7-57

20

(SECTION OR LEASE)

T25N, R11W

(TOWNSHIP OR RANCHO)

Bisti - Carson Unit

(FIELD)

San Juan, New Mexico

(COUNTY)

DAY	DEPTHS		REMARKS
	FROM	TO	
57			
3-30 to 4-0			Moved in pulling unit. <u>FRACTURE TREATMENT #1</u> . Loaded hole with 140 bbl. crude. Injected 11,350 gal. crude oil with 2# sand/gal, injected 30 rubber balls (no pressure build up) injected 9650 gal. crude with 2# sand/gal, injected 70 rubber balls (375 psi pressure build up - net build up 200 psi). Injected 9500 gal. crude with 2# sand/gal. Maximum pressure 2900 psi, minimum pressure 2300 psi. Average injection rate 42.5 bbl./min. Displaced with 200 bbl. crude. Shut-in pressure after 11 minutes, 800 psi. Total load used 1219 bbl.
4-1	5075 5030	TD PBTD	Ran tubing to 4986'. Swabbed 69 bbls.
4-2			Swabbed 80 bbls. well started flowing. 17.5 hrs., 167 bbls. gross (229 B/D), 167 bbls. net, cut 0.2%, 64/64" bean, no gas measurement, TP 30, CP 530 (Load oil).
4-3 to 4-4			Flowed 23 hrs. 90 bbls. gross (94 B/D gross) cut 0.1%, 64/64" bean. Well died.
4-5 to 4-19			Located 500' of sand in tubing. Swabbed and flowed 184 bbls. gross.
7-29			Ran rods and pump.
8-1			Started pumping.
8-2 to 8-7			Pumped 813 bbls. gross. <u>INITIAL PRODUCTION</u> Pumping 51 B/D gross, 51 B/D clean, cut 0.3%, 153 MCF/D, GOR 300, TP 50, CP 50. Completed 8-7-57.

CONDITION AT BEGINNING OF PERIOD

HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
12-1/4"	0	225	8-5/8"	211'
7-7/8"	225	5075	5-1/2"	5059'
DRILL PIPE SIZES 4-1/2				

E. B. Johnstone

SIGNED