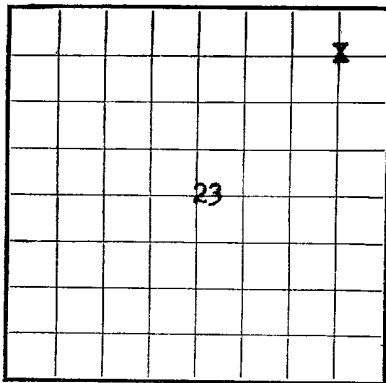


U. S. LAND OFFICE Santa Fe, N.M.

SERIAL NUMBER SF 078067

LEASE OR PERMIT TO PROSPECT



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Shell Oil Company Address 101 S. Behrend, Farmington, N.M.
 Lessor or Tract Federal Field Bisti State New Mexico
 Carson Unit
 Well No. 41-23 Sec. 23 T. 25N R. 12W Meridian NMPM County San Juan
 Location 660 ft. N of N Line and 660 ft. E of E Line of Sec. 23 Elevation 6434.7 KB
S W

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 BW Shepard

Date November 13, 1957 Title Exploitation Engineer

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

Commenced drilling May 3-----, 1957 Finished drilling May 12-----, 1957.

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

(Gross) (Denote gas by G)

No. 1, from 4888 to 4984	No. 4, from _____ to _____
No. 2, from _____ to _____	No. 5, from _____ to _____
No. 3, from _____ to _____	No. 6, from _____ to _____

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IMPORTANT WATER SANDS

No. 1, from _____ to _____

No. 2, from _____ to _____

No. 3, 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—	
8-5/8"	24	8	-	216	Baker	-	-	-	Surface Production
4-1/2"	9.5	8	-	5052	Baker	-	4888	4984	
DISPOSAL OF CUTTINGS CONTINUED									

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	226	130	Displacement	-	-
4-1/2"	5062	150	"	-	-

PLUGS AND ADAPTERS

Heaving plug—Material ----- Length ----- ~~Depth~~ set 5024! -----
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 5072 feet, and from 2 feet to 2 feet
Cable tools were used from 0 feet to 5072 feet, and from 2 feet to 2 feet

DATES

November 13, 1957 Put to producing October 29, 1957

The production for the first 24 hours was 162 barrels of fluid of which 99.9 % was oil; - % emulsion; - % water; and 0.1 % sediment. Gravity, °Bé. Approx. 39° API

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

Rock pressure, lbs. per sq. in. -----

EMPLOYEES

C. C. Adams	Driller	Brinknerhoff Drilling Company	
F. Babcock	Driller	J. Speaker	Driller
			Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
1238	1412	174	Pictured Cliffs
1412	1580	168	Lewis
1580	2086	506	Cliff House
2086	3682	1596	Allison-Menefee
3682	3875	193	Point Lookout
3875	4772	897	Mancos
4772	-	-	Gallup

Bisti

DRILLING REPORT

FOR PERIOD ENDING

5-12-57

23

(SECTION OR LEASE)

T25N, R12W

(TOWNSHIP OR RANCHO)

(FIELD)

San Juan, New Mexico

(COUNTY)

DAY	DEPTHS		REMARKS
	FROM	TO	
57			
			<u>Location:</u> 660' S and 660' W of NE Corner, Section 23, T25N, R12W, NMPM, San Juan County, New Mexico <u>Elevations:</u> GR 6425.7 DF 6433.5 KB 6434.7
5-3 to 5-4	0	1847	Spudded 3:00 P.M. 5-3-57. Ran and cemented (216') 8-5/8", 24#, J-55 casing at 226' with 130 sacks cement treated with 2% calcium chloride. Good returns to surface. Flanged up and waited on cement. Pressure tested casing and BOP with 500 psi for 15 minutes, OK.
5-5	1847	2420	<u>Drilled 573'</u> . Twisted off 2183' leaving 5 drill collars in hole, recovered with overshot.
5-6 to 5-11	2420	5055	<u>Drilled 2635'</u> .
5-12	5055	5072	<u>Drilled 17'</u>. Ran Electrical Survey and Microlog. Ran and cemented (5052') 4-1/2", 9.5# casing at 5062' with 150 sacks cement treated with 4% gel, displaced with oil. Released rig 6:45 P.M. 5-12-57. Checked BOP Mud Summary WT 9.2-9.8#/gal. Vis. 42-85 sec. WL 7.4 cc FC 1/32"
CONDITION AT BEGINNING OF PERIOD			Contractor: Brinkerhoff Drilling Co. Drillers: C. C. Adams E. Babcock J. Speaker
HOLE		CASING SIZE	
SIZE	FROM	TO	
DRILL PIPE SIZES			



R. D. Allen

Bisti

DRILLING REPORT

FOR PERIOD ENDING

10-29-57

23

(SECTION OR LEASE)

T25N, R12W

(TOWNSHIP OR RANGE)

(FIELD)

San Juan, New Mexico

(COUNTY)

DAY	DEPTHS		REMARKS
	FROM	TO	
57			
5-14 to 5-15	5072 5024	TD PBSD	Ran bailer, found fill 4993' (plug 5024'). Ran Gamma log. Perforated four 1/2" jets/ft. 4953-84. Moved in pulling unit, bailed mud from 4991-5020'. Ran tubing to 4954', Swabbed at rate of 5.5 bbls./hour.
5-16			Sand oil fracture treatment #1 injected 30,000 gal. oil with 1#/gal. sand treated with 30 MC Iridium, displaced and overflushed with 252 bbls. oil. Breakdown pressure 3300 psi, maximum treating pressure 2900 psi, minimum treating pressure 2700 psi, average rate 30.9 bbl./min.
5-17			Ran radioactive tracer log, found fill at 4981', bailed well to 5024', ran tubing to 4973'.
5-18			Swabbed total of 125 bbls. oil in 8-1/2 hours, final 3-1/2 hours swabbed average rate of 12.5 bbls./hour.
10-15			Perforated four 1/2" jet holes/ft. 4932-40, 4919-26, 4903-15, 4872-4888. Sand oil fracture treatment #2. Injected 15,000 gal. oil, 1-2#/gal. sand, injected 130 rubber balls; injected 11,300 gal. oil, 1-2#/gal. sand, injected 100 rubber balls; injected 11,300 gal. oil, 1-2#/gal. sand, injected 65 rubber balls; injected 6000 gal. oil, 1#/gal. sand, maximum pressure 4000 psi displaced with 80 bbls. oil, average pressure 2800 psi, average rate 43 bbl./min.
10-16			Ran bailer, found top of fill 4959'.
10-17			Bailed sand to 4990'. Landed tubing at 4847'. Made 4 swab runs, well started flowing.
10-18 to 10-29			Flowed load and frac oil at average rate of 375 B/D rate. Recovered all load and frac oil.
			INITIAL PRODUCTION Flowing, 161 B/D gross, 161 B/D clean, cut 0.1%, 80 MCF/D rate gas, GOR 500, 64/64" bean, TP 20, CP 380, Completed 10-29-57.

CONDITION AT BEGINNING OF PERIOD

HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
12-1/4"	0	226	8-5/8"	226'
7-7/8"	226	5072	4-1/2"	5062'
DRILL PIPE SIZES 4-1/2"				



E. B. Johnstone

SIGNED