

U. S. LAND OFFICE Santa Fe, N. M.
SERIAL NUMBER 4078064
LEASE OR PERMIT TO PROSPECT _____

UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Shell Oil Company Address 705 West Municipal Drive, Farmington,
Lessor or Tract Federal - Carson Unit Field Misti State New Mexico
Well No. 93-13 Sec. 13 T. 25N R. 12W Meridian San Juan County San Juan
Location 1980 ft. (N. of S. Line and 1930 ft. (E. of W. Line of Sec. 13 Elevation 6404 *B

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.

Date July 30, 1990 Title Exploitation Engineer

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

Commenced drilling July 3, 1952 Finished drilling July 10, 1952

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

(F.C.S.) (Denote gas by G)

No. 1, from <u>4576</u> to <u>4962</u>	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 _____ 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"	104	100	Displacement	-	-
4-1/2"	5038	150	"	-	-

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set

Adapters—Material Size

SHOOTING RECORD

[illegible]

TOOLS USED

Rotary tools were used from 4 feet to 440 feet, and from - feet to - feet
Cable tools were used from - feet to - feet, and from - feet to - feet

DATES

----- July 30 -----, 19 49 Put to producing ----- July 24 -----, 19 49

The production for the first 24 hours was 110 barrels of fluid of which 99.5% was oil; % emulsion; % water; and % sediment. Gravity, °Bé 44.0 API 44.1

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

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

EMPLOYEES

.....	Drinkerhoff Drig. Co.		Driller
.....	E. Hancock		Driller
.....			Driller

FORMATION RECORD

FROM-	TO-	TOTAL FEET	FORMATION
1203	1434	231	Pictured Cliffs
1434	1574	140	Lewis
1574	2062	488	Cliff House
2062	3687	1625	Alison - Menifee
3687	3875	188	Point Lookout
3875	4780	905	Mancoes
4780	-	-	Calleguas

SHELL OIL COMPANY

Carson Unit 33-13
WELL NO.

DRILLING REPORT
FOR PERIOD ENDING

7-11-59

Bisti

(FIELD)

San Juan, New Mexico

(COUNTY)

13

(SECTION OR LEASE)

T 25 N, R. 12 W

(TOWNSHIP OR RANCHO)

DAY	DEPTHS		REMARKS
	FROM	TO	
			Location: 1980' N and 1980' W of SE Corner, Section 13, T. 25 N., R. 12 W., N.M.P.M., San Juan County, New Mexico Elevations: DF 6402.9 GR 6395.2 KB 6404.1
7-3 To 7-4	0	2176	Spudded 3:00 P.M., July 3, 1959. Ran and cemented (95') 8-5/8", 24#, J-55 casing at 104' with 100 sacks cement treated with 2% calcium chloride. Good returns to surface. Flanged up and waited on cement. Pressure tested casing and BOP with 700 psi, OK.
7-5 To 7-10	2176	5040	<u>Drilled 2864'</u>. Ran SP - contact caliper log.
7-11	5040 (TD)		Ran and cemented (5029') 4-1/2", 9.5#, J-55 casing at 5038' with 150 sacks cement treated with 4% gel. Displaced with oil. Final pressure 1800 psi. Released rig 3:45 A.M. July 11, 1959. Checked BOP Daily Mud Summary wt 9.3-9.9 #/gal. vis 46-130 sec. WL 4.8-7.4 cc FC 2/32

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

Contractor: Brinkerhoff Drilling Co.
 Drillers: C. Adams
 J. Speaker
 E. Babcock

M. W. McGarry

SIGNED

SHELL OIL COMPANY

Carson Unit

WELL NO. 33-13

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Bisti

(FIELD)

San Juan, New Mexico

(COUNTY)

DAY	DEPTHS		REMARKS
	FROM	TO	
7-11	5040		Perforated four 1/2" holes/ft. 4876-98, 4907-14, 4945-51, 4959-68, 4978-82.
	TD		
7-12			
7-13			
7-14			
To			Spotted 200 gal. mud acid. Sand oil fractured well with 50,000 gal. crude. 1#/gal. sand and 155 balls. Maximum pressure 2200 psi, flushed with 160 bbls. crude. Average rate 36 bbls./min.
7-24			
7-25			
			Cleaned out frac sand 4975-5000'. Ran tubing (4890') and rods. Installed pump.
			Pumped and recovered all load and frac oil, 1528 bbls.
			INITIAL PRODUCTION
			Pumping 119 B/D gross, 119 B/D oil, 0.2% cut
			145 MCF/D gas, GOR 1220, Completed 7-25-59.

CONDITION AT BEGINNING OF PERIOD

HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
12-1/4"	0	115	8-5/8"	104'
7-7/8"	115	5040	4-1/2"	5038'
DRILL PIPE SIZES			4-1/2	

M. W. McGarry