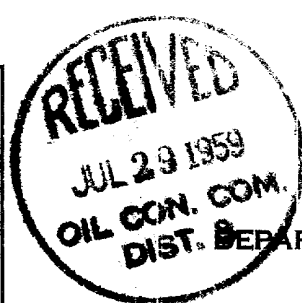


[illegible]

LOCATE WELL CORRECTLY



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 705 West Municipal Drive, Farmington
Lessor or Tract Federal - Carson Unit Field Histi State New Mexico
Well No. 31-23 Sec. 23 T. 25N R. 12W Meridian NMPM County San Juan
Location 660 ft. SW of N Line and 196.7 ft. SW of E Line of Section 23 Elevation 6121 KB

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.

so far as can be determined from an available record.

Signed _____ Original signed by
B. W. SHEPARD

Date July 22, 1959 Title Exploitation Engineer

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

Commenced drilling _____, 19____ Finished drilling _____, 19____

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

(gross) (Denote gas by G)

No. 1, from <u>1344</u> to <u>1960</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. 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
-5/8"	107	100	Displacement	--	--
-1/2"	1990	190	"	--	--

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 1995 feet, and from -- feet to -- feet.
Cable tools were used from --- feet to --- feet, and from --- feet to --- feet.

DATES

July 22	1959	Put to producing	June 14	1959
The production for the first 24 hours was	151	barrels of fluid of which	99.6	% was oil; %
emulsion; % water; and	0.4	% sediment.	Gravity, °Bé	100
If gas well, cu. ft. per 24 hours		Gallons gasoline per 1,000 cu. ft. of gas	API approx.	
Rock pressure, lbs. per sq. in.				

EMPLOYEES

C. Adams	Driller	Drinkerhoff Drilling Co.	Driller
E. Babcock	Driller	J. Speaker	Driller

FORMATION RECORD

FROM--	TO--	TOTAL FEET	FORMATION
1181	1393	212	Pictured Cliffs
1393	1560	167	Lewis
1560	2085	525	Cliff House
2085	3666	1581	Allison - Menefee
3666	3837	171	Point Lookout
3837	4747	910	Mancos
4747	--	--	Gallup

Office of Patent to Invention
General Bureau
U. S. Patent Office

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATED WELL CORRECTLY

The summary of this name is for the condition of the well as above date _____

Date _____ Title _____

Signed _____

as far as can be determined from all available records.

The information given herewith is a complete and correct record of the well and all work for a season

Location _____ of _____ line of _____

_____ Sec. _____ T. _____ R. _____ S. _____

_____ Town _____ State _____

Company _____

Depth	Direction	Through hole	Metal	Amount of filling of shot	Outward pulled from	Location	Date	Name

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of re-drilling, 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 detached, 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.

HISTORY OF OIL OR GAS WELL

16-43094-2 U. S. GOVERNMENT PRINTING OFFICE

[illegible]

DRILLING REPORT
FOR PERIOD ENDING

Bisti

23

(FIELD)

(SECTION OR LEASE)

San Juan, New Mexico

7-2-59

T. 25 N., R. 12 W.

(COUNTY)

(TOWNSHIP OR RANCHO)

DAY	DEPTHS		REMARKS
	FROM	TO	
6-25 to 6-26	0	2200	Location: 660' S., and 1976.7' W. of NE Corner, Section 23, T. 25 N., R. 12 W., N. M. P. M., San Juan County, New Mexico. Elevations: DF 6419.8' GR 6412.3' KB 6421.3' Spudded 8:30 A.M. 6-25-59. Ran and cemented (97') 8-5/8", 24 #, J-55 casing at 107' 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.
6-27 to 7-1	2200	4925	<u>Drilled 2725'</u>. Twisted off at 4601' leaving 12 drill collars and four singles of drill pipe in hole, recovered with over shot.
7-2	4925	4995 (TD)	contact <u>Drilled 70'</u>. Ran combination SP/caliper log. Ran and cemented (4980') 4-1/2", 9.5#, J-55 casing at 4990' with 150 sacks cement treated with 4% gel. Displaced with oil. Final pressure 1800 psi. Released rig 9:30 P.M. 7-2-59.

Checked BOP Daily

Mud Summary
Wt. 9.1-9.8#/gal.
Vis 44-120 sec.
WL 4.8 cc.
FC 2/32"

Contractor: Brinkerhoff Drilling Company
Drillers: C. Adams
J. Speaker
E. Babcock
Co. Pusher: R. I. Alberts

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

M. W. McGarry

SIGNED

DRILLING REPORT
FOR PERIOD ENDING

7-14-59

Bisti

(FIELD)

San Juan, New Mexico

(COUNTY)

23

(SECTION OR LEASE)

T. 25 N., R. 12 W.

(TOWNSHIP OR RANCHO)

DAY	DEPTHS		REMARKS
	FROM	TO	
7-3	4995	TD	Perforated four 1/2" jet holes/ft. 4844-59, 4877-82, 4886-4901, 4907-18, 4930-39, 4946-60.
7-4			Ran 2-3/8" tubing to 4965'. Spotted 200 gal. mud acid.
7-5			Fractured well with 50,000 gal. crude, 1#/gal. sand. Maximum pressure 2400 psi., minimum pressure 2100 psi. and 225 balls, no noticeable pressure effect, average rate 33 bbls/min.
7-6			Installed pumping equipment.
7-7 to 7-13			Flowed and pumped and recovered all load and frac oil, 1423 bbls.
7-14			INITIAL PRODUCTION Pumping 141 B/D gross, 150 B/D oil, 0.4% cut 195 MCF/D gas, GOR 1480 (21 hour test) completed 7-14-59.

CONDITION AT BEGINNING OF PERIOD				
HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
12-1/4"	0	115	8-5/8"	107'
8-5/8"	115	4995	4-1/2"	4990'
DRILL PIPE SIZES 4-1/2				

M. W. McGarry

SIGNED