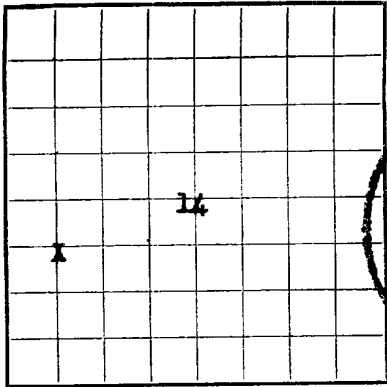
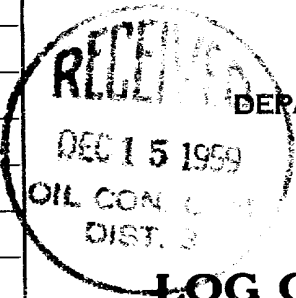


U. S. LAND OFFICE Santa Fe, N.M.
SERIAL NUMBER SF 078067
LEASE OR PERMIT TO PROSPECT _____



LOCATE WELL CORRECTLY



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Shell Oil Company Address P. O. Box 158, Farmington, New Mexico
Lessor or Tract Federal - Carson Unit Field Histi State New Mexico
Well No. 13-14 Sec. 14 T. 25 R. 12 Meridian N.M.P.M. County San Juan
Location 1850 ft. S of 8 Line and 560 ft. E of W Line of Sec. 14 Elevation 6273 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.
Original signed by
Signed E. W. SHEPARD

Date December 3, 1959 Title Exploitation Engineer

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

Commenced drilling October 1, 1959 Finished drilling October 7, 1959

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 4731 to 4847 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

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
<u>13-3/8</u>	<u>28</u>	<u>8</u>	<u>88</u>	<u>88</u>	<u>88</u>	<u>88</u>	<u>4731</u>	<u>4847</u>	<u>Production</u>
<u>8-5/8</u>	<u>24</u>	<u>8</u>	<u>88</u>	<u>88</u>	<u>88</u>	<u>88</u>	<u>4731</u>	<u>4847</u>	<u>Production</u>
<u>4-1/2</u>	<u>9.5</u>	<u>8</u>	<u>88</u>	<u>88</u>	<u>88</u>	<u>88</u>	<u>4731</u>	<u>4847</u>	<u>Production</u>

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>13-3/8</u>	<u>28</u>	<u>115</u>	<u>Displacement</u>		
<u>8-5/8</u>	<u>105</u>	<u>100</u>	<u>"</u>		
<u>4-1/2</u>	<u>4850</u>	<u>150</u>	<u>"</u>		

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 4893 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

December 3, 1959 Put to producing October 30, 1959

The production for the first 24 hours was 66 barrels of fluid of which 99.2 % was oil; _____ %
emulsion; _____ % water; and 0.8 % sediment. Gravity, 28.6 API approx.

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

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

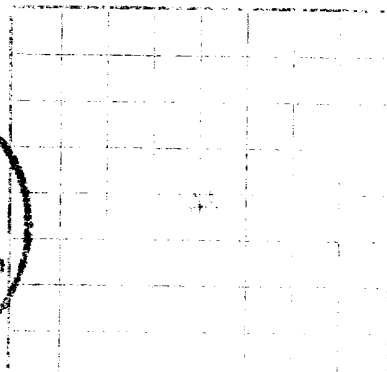
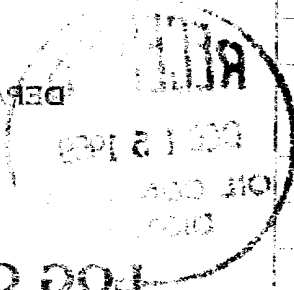
_____, Driller Brinkerhoff Drlg. Co. _____, Driller
_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>1027</u>	<u>1276</u>	<u>249</u>	<u>Pictured Cliffs</u>
<u>1276</u>	<u>1448</u>	<u>172</u>	<u>Lewis</u>
<u>1448</u>	<u>1968</u>	<u>520</u>	<u>Cliff House</u>
<u>1968</u>	<u>3557</u>	<u>1589</u>	<u>Allison-Menefee</u>
<u>3557</u>	<u>3719</u>	<u>162</u>	<u>Point Lookout</u>
<u>3719</u>	<u>4637</u>	<u>918</u>	<u>Mancos</u>
<u>4637</u>	<u>-</u>	<u>-</u>	<u>Gallup</u>

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL



Company _____
Season or time of year _____
Location _____
The information given herewith is a complete and correct record of the well and all work done thereon.
Signed _____

This summary on this page is for the condition of the well at above date.
For record of drilling _____

OIL OR GAS SANDS OR WORKS

From _____ to _____
No. _____ from _____
No. _____ from _____
No. _____ from _____

IMPORTANT WATER SANDS

From _____ to _____
No. _____ from _____
No. _____ from _____

CASING RECORD

Attached: Drilling History
It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, 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 "welded" 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

FROM	TO	TOTAL FEET	FORMATION
FORMATION RECORD			
EMPLOYEES			
TOOLS USED			
SHOT-HOLE RECORD			
PLUGS AND ADAPTERS			
MUD-LOGGING AND CEMENTING RECORD			
FORMATION			

SHELL OIL COMPANY

Carson Unit

WELL NO. 13-14

Bisti

(FIELD)

San Juan, New Mexico

(COUNTY)

DRILLING REPORT

FOR PERIOD ENDING

10-8-59

14

(SECTION OR LEASE)

T. 25 N., R. 12 W.

(TOWNSHIP OR RANCHO)

DAY	DEPTHS		REMARKS
	FROM	TO	
			Location: 1880' N. and 560' E. of SW Corner Sec. 14, T. 25 N., R. 12 W., N.M.P.M., San Juan County, New Mexico Elevations: GR 6263.5' DF 6271.2' KB 6272.7'
10-1 to 10-2	0	1690	Spudded 9:00 A.M. 10-1-59. Ground under rig washed out. Cemented 13-3/8" conductor pipe at 28' with 115 sacks cement treated with 3% calcium chloride. Ran and cemented (96'), 8-5/8", 24#, J-55 casing at 105' 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.
10-3 to 10-8	1690	4893 TD	Drilled 3203'. Ran SP-microlog. Ran and cemented (4881'), 4-1/2", 9.5#, J-55 casing at 4890' with 150 sacks cement, treated with 4% gel. Displaced with oil, final pressure 1800 psi. Released rig 1:30 A.M. 10-8-59. Checked BOP Daily Mud Summary Wt. 9.2-9.8#/gal. Vis 45-120 sec Wl 5.6-8.2 cc FC 1-2/32 Contractor: Brinkerhoff Drilling Co. Drillers: J. Speaker E. Babcock W. Black Co. Pusher: C. L. Christiansen

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

M. W. McGarry

SHELL OIL COMPANY

Carson Unit 13-14
WELL NO.

Bisti

DRILLING REPORT

FOR PERIOD ENDING

10-30-59

14

San Juan New Mexico

(COUNTY)

(SECTION OR LEASE)

T25N R12W

(TOWNSHIP OR RANCHO)

DAY	DEPTHS		REMARKS
	FROM	TO	
10-11	4893 TD		Bailed mud and cement to 4886'. Perforated four 1/2" bullet holes/ft. 4731-55, 4768-86, 4791-4808, 4816-26, 4833-47.
10-12			Spotted 200 gal. mud acid. Sand oil fractured with 50,000 gal. crude, 1#/gal. sand and 275 balls. Maximum pressure 2600 psi, average injection rate 30 bbls./min. Pressure increases of 50-100 psi after each ball stage.
10-13			Cleaned out frac sand. Ran 2-3/8" tubing to 4780'.
10-14			Ran rods and pump.
10-15 to 10-29			Pumped and recovered all load and frac oil, 1595 bbls.
10-30			Initial Production Pumping, 66 B/D gross, 65 B/D clean, cut 0.8%, gas 130 MCF/D, GOR 1960. Completed 10-30-59.

CONDITION AT BEGINNING OF PERIOD

HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
			13-3/8"	28'
12-1/4"	0	115	8-5/8"	105'
7-7/8"	115	4893	4-1/2"	4890'
DRILL PIPE SIZES 4-1/2"				

M. W. McGarry