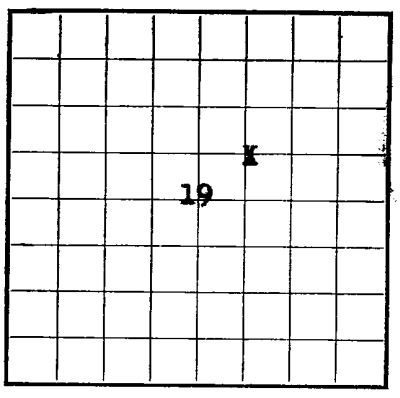
Form 9-330

Budget Bureau No. 42-R355.4.
Approval expires 12-31-60.

U. S. LAND OFFICE Santa Fe, N. M.
SERIAL NUMBER SF 078063
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 S. Behrend, Farmington, New Mexico
Lessor or Tract Federal - Carson Unit Field Bisti State New Mexico
Well No. 32-19 Sec. 19 T. 25N R. 11W Meridian NMPM County San Juan
Location 1980 ft. {N/S} of N Line and 1980 ft. {E/W} of E Line of Section 19 Elevation 6452 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 Original signed by B. W. SHEPARD

Date April 14, 1958 Title Exploitation Engineer

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

Commenced drilling March 3, 1958 Finished drilling March 9, 1958

OIL OR GAS SANDS OR ZONES

(*Denote gas by G*)

No. 1, from 4873 (gross) to 4991 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 From—	Perforated To—	Purpose
8-5/8"	24	8	Nat'l.	98	Baker	-	-	-	Surface
4-1/2"	9.5	8	-	5005	Baker	-	4873 (gross)	4991	Production

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	108	100	Displacement	-	-
4-1/2"	5015	150	Displacement	-	-

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 5015 feet, and from ---- feet to ---- feet
Cable tools were used from ---- feet to ---- feet, and from ---- feet to ---- feet

DATES

April 14, 1958 Put to producing April 8, 1958

The production for the first 24 hours was 84 barrels of fluid of which 99.6% was oil; ----% emulsion; ----% water; and 0.4% sediment.

Gravity, °Bé. XXX 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

W. F. Black, Driller Brinkerhoff Drilling Co. C. C. Adams, Driller
A. Babcock, Driller ----, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
1241	1430	189	Pictured Cliffs
1430	1600	170	Lewis
1600	2070	470	Cliff House
2070	3706	1636	Allison - Menefee
3706	3855	149	Point Lookout
3855	4775	920	Mancos
4775	-	-	Gallup

[OVER]

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

HISTORY OF OIL OR GAS WELL

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 "sidetracked," 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.

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

LOG OF OIL OR GAS WELL

DEPARTMENT OF THE INTERIOR
UNITED STATES
GEOLOGICAL SURVEY

FD 4A 2-50 PRINTED IN U. S. A.

SHELL OIL COMPANY

DRILLING REPORT
FOR PERIOD ENDING 3-9-58

Bisti (FIELD)
San Juan, New Mexico (COUNTY)

Carson Unit WELL NO. 32-19
19 (SECTION OR LEASE)
T25N, R11W (TOWNSHIP OR RANCHO)

DAY	DEPTHS FROM	DEPTHS TO	REMARKS
			Location: 1980' S and 1980' W of NE Corner Section 19, T25N, R11W, NMPM, San Juan County, New Mexico Elevations: GR 6443.1 DF 6450.7 KB 6451.9
3-3 to 3-4	0	2360	Spudded 3:30 P.M. 3-3-58. Ran and cemented (98') 8-5/8", 24#, J-55 National casing at 108' 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.
3-5 to 3-8	2360	4984	Drilled 2624'.
3-9	4984	5015	Drilled 31'. Ran Electrical Survey and Microlog. Ran and cemented (5005') 4-1/2", 9.5# casing at 5015' with 150 sacks cement treated with 4% gel. Final pressure 1800 psi. Displaced with oil. Released rig 8:00 P.M. 3-9-58. Check BOP daily. Mud Summary Wt 9.3 - 10.3 #/gal. Vis 42 - 130 sec. WL 5.5 - 7.3 cc FC 1-2/32" Contractor: Brinkerhoff Drilling Company Drillers: W. B. Black E. Babcock C. C. Adams

CONDITION AT BEGINNING OF PERIOD

HOLE SIZE	HOLE FROM	HOLE TO	CASING SIZE	DEPTH SET

DRILL PIPE SIZES

R. D. ALLEN

PD 4A — 8-58 — PRINTED IN U. S. A.

SHELL OIL COMPANY

Carson Unit

WELL NO. 32-19

Bisti
(FIELD)

DRILLING REPORT
FOR PERIOD ENDING

4-8-58

19
(SECTION OR LEASE)

San Juan, New Mexico
(COUNTY)

T25N, R11W
(TOWNSHIP OR RANGE)

DAY	DEPTHS FROM	DEPTHS TO	REMARKS
3-19	5015	TD	Ran Gamma Ray - collar log. Bullet perforated four 1/2" holes/ft. 4873-4900, 4908-18, 4947-54, 4961-76, 4981-91. Ran tubing to 4965'.
3-21 to 3-22			Spotted 200 gal. mud acid on perforations. Sand oil fracture #1. Broke down formation at 2600 psi. Injected 4500 gal. crude 1#/gal. sand, blender failed. Flushed with 160 bbls. crude. Repaired blender. Sand oil fracture #1A. Broke down formation at 2500 psi. Injected 11,000 gal. crude with 1#/gal sand, 50 nylon core balls; injected 2500 gal. crude with 1#/gal. sand 25 nylon core balls. Injected 6,700 gal. crude with 1#/gal. sand, 25 nylon core balls. (Pressure increased from 2650 to 3500 psi, broke to 3200 psi). Injected 15,000 gal. crude with 1#/gal. sand, 10 nylon core balls. Flushed with 146 bbls. crude. Maximum pressure 3500 psi, minimum pressure 2500 psi average rate 32 bbls./min.
3-24			Cleaned out frac sand from 4940' to 5008'. Landed tubing at 4871'.
3-25			Swabbed 50 bbls., well started flowing.
3-26			Flowed 20 hours, 389 bbls. gross, 64/64" bean.
3-27 to 4-7			Flowed and recovered all load and frac oil, 1592 bbls.
4-8			INITIAL PRODUCTION Flowing, 84 B/D gross, 84 B/D clean, cut 0.4%, Gas 145 Mcf/D, GOR 1740, 64/64" bean, TP 25. Completed 4-8-58.

CONDITION AT BEGINNING OF PERIOD

HOLE SIZE	HOLE FROM	HOLE TO	CASING SIZE	DEPTH SET
12-1/4"	0	115	8-5/8"	108'
7-7/8"	115	5015	4-1/2"	5015'

DRILL PIPE SIZES 4-1/2"

E. B. JOHNSTONE