COPY TO O.C.C.

HOBBS

NOTED

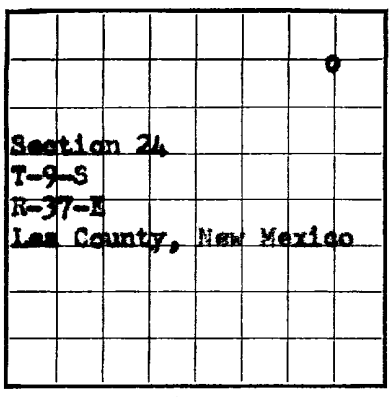
JAN 30 1961

GORDON

Form 9-330

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

U. S. LAND OFFICE Hobbs, N. M.
SERIAL NUMBER N.M. 080255
LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Western Drilling Co. of Longview Address P. O. Box 1428, Odessa, Texas

Lessor or Tract Aikman Brothers Federal Field Sawyer San Andres State New Mexico

Well No. 1 Sec. 24 T. 9-S R. 37-E Meridian NMPM County Lea

Location 660 ft. {N./S.} of N Line and 660 ft. {E./W.} of E Line of Section 24 Elevation 3969'
(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 J. D. Henderson

Date January 25, 1961 Title Partner

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

Commenced drilling December 21, 1960 Finished drilling January 10, 1961

OIL OR GAS SANDS OR ZONES

(*Denote gas by G*)

No. 1, from 4938' to 4953' G No. 4, from to

No. 2, from 4965' to 5015' G No. 5, from to

No. 3, from to No. 6, from to

IMPORTANT WATER SANDS

No. 1, from None 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	Beth	412'	Halliburton				Surface Csg
4 1/2"	10.5#	8	Beth	5014'	Halliburton		4965'	5015'	Oil String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8"	412'	300	Halliburton		Natural
4 1/2"	5014'	400	Halliburton	9.8	Brine Water

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 5025' feet, and from feet to feet

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

DATES

January 18, 1961 Put to producing, 19

The production for the first 24 hours was 12 barrels of fluid of which 84 % was oil; % emulsion; 8 % water; and 8 % sediment. Gravity, °Bé.

If gas well, cu. ft. per 24 hours 920,000 Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in. 1375

EMPLOYEES

J. L. Martin, Driller A. E. Mize, Driller

R. E. Shields, Driller , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	11	11	Derrick Substructure
11	97	86	Red Bed
97	420	323	Shale & Red Bed
420	795	375	Red Bed
795	1345	550	Shale & Shells
1345	1640	295	Red Bed & Shale
1640	1980	340	Anhydrite
1980	2070	90	Shale & Sand
2070	2240	170	Red Bed & Anhydrite Shells
2240	2395	155	Anhydrite, Shale & Sand
2395	2690	295	Shale & Anhydrite Salt
2690	2910	220	Shale & Anhydrite
2910	3670	760	Anhydrite & Gyp
3670	4189	519	Anhydrite
4189	4250	61	Anhydrite & Lime
4250	4445	195	Anhydrite
4445	4756	311	Anhydrite & Lime
4756	4890	134	Anhydrite & Dolomite
4890	5025	135	Dolomite, Lime

GEOLOGICAL TOPS PICKED FROM ELECTRIC LOG

Rusaler	2300'
Yates	2930'
San Andres	4204'

FOLD MARK

[OVER]

16—43094-4

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

16—43094-4

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.

SEE ATTACHED HISTORY

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

LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

GEOLOGICAL SURVEY

DEPARTMENT OF THE INTERIOR

UNITED STATES

AIKMAN BROTHERS FEDERAL No. 1
WELL HISTORY

1960
December

14 Location Staked 660' FNL and 660' FEL of Section 24, T-9-S, R-37-E, Lea County New Mexico, by John W. Shearman of Lovington, New Mexico.

15 Building Road and Location - Slow due to Ice Storm

16 Building Road and Location

17 Building Road and Location

18 Moving in Rotary Tools - Western Service Drilling Company's Rig No. 13

19 Moving in Rotary Tools

20 Setting matting and mud pits with 1 crew

21 8:00 AM to 4:00 PM - Rigging up
4:00 PM to 10:00 PM - Rigging and mixing Spud Mud
10:00 PM to 12:00 PM - Drilling Surface Hole

22 12:00 AM to 3:00 PM - Drilling Surface Hole; Sand, Shell and Red Bed
3:00 PM to 6:30 PM - Ran 12 joints of 8 5/8", 24# Casing to 412'. Cemented Surface Casing with 300 sacks of regular cement. Circulated cement to surface.
6:30 PM to 12:00 PM - W.O.C.

23 12:00 AM to 6:00 PM - W.O.C.
6:00 PM to 6:30 PM - Tested 8 5/8" Casing with 500# for 30 minutes. Test OK.
6:30 PM to 12:00 PM - Drilling Red Bed and Shells; 420' to 795'

24 12:00 AM to 4:00 PM - Drilling Red Bed and Shale; 795' to 1525' ½° deviation at 1125'
4:00 PM to 12:00 PM - Shut down for Christmas

25 12:00 AM to 12:00 PM - Shut down for Christmas

26 12:00 AM to 8:00 AM - Shut down for Christmas
8:00 AM to 12:00 PM - Drilling; 1525' to 1640' Red Bed and Shale, 1640' to 1830' Anhydrite.

27 12:00 AM to 12:00 PM - Drilling; 1830' to 2240'
1830' to 1980' - Anhydrite
1980' to 2070' - Sand and Shale
2070' to 2240' - Sand and Anhydrite

28 12:00 AM to 12:00 PM - Drilling; 2240' to 2640', Anhydrite Shale and Salt.

29 12:00 AM to 12:00 PM - Drilling; 2640' to 3188', Salt and Anhydrite

30 12:00 AM to 12:00 PM - Drilling; 3188' to 3670', Anhydrite and Salt. 1°Dev at 3600'

31 12:00 AM to 12:00 PM - Drilling; 3670' to 4035', Anhydrite and Gyp

10:00 PM to 12:00 PM - Drilling Surface Hole

1961
January

1 12:00 AM to 12:00 PM - Drilling; 4035' to 4250', Anhydrite and Lime

2 12:00 AM to 4:00 PM - Drilling; 4250' to 4335', Anhydrite and Shells
4:00 PM to 12:00 PM - Fishing

3 12:00 AM to 8:00 AM - Fishing, Out of the hole with No. 1
8:00 AM to 12:00 PM - Drilling; 4335' to 4445' - Anhydrite

4 12:00 AM to 12:00 PM - Drilling; 4445' to 4586', Anhydrite and Lime

5 12:00 AM to 12:00 PM - Drilling; 4586' to 4711', Anhydrite and Lime

6 12:00 AM to 12:00 PM - Drilling; 4711' to 4826', Anhydrite and Lime

7 12:00 AM to 11:30 AM - Drilling; 4826' to 4890', Anhydrite and Dolomite
11:30 AM to 4:00 PM - One half trip out of hole to core
8 4:00 PM to 12:00 PM - Changed drilling line and ran magnetic basket in hole for bearing out of last bit

8 12:00 AM to 8:00 AM - Pulled Magnetic basket and ran core barrel in the hole.
8:00 AM to 12:00 PM - Coring No. 1; 4890' to 4919', Recovered 29' of dense Dolomite (Core Barrel Jammed)- Coring No. 2; 4919' to 4930'

9 12:00 AM to 6:15 PM - Coring No. 2; 4930' to 4938', Cut 19', Recovered 19' Dolomite, Oil and Gas
6:15 AM to 9:15 AM - Trip in hole to cut core No. 3
9:15 AM to 12:00 PM - Cutting Core No. 3; 4938' to 4982'

10 12:00 AM to 6:15 AM - Pulling Core #3 and one half trip in hole for Core No. 4
Cut 44' and recovered 44' of Core No. 3, Dolomite
4938' to 4953' Oil and Gas
4953' to 4965' Dense, No Shows
4965' to 4982 Oil and Gas
6:15 AM to 4:00 PM - Cutting and pulling Core No. 4, Cut 33', recovered 33' 4982' to 5015' Dolomite, Oil and Gas
4:00 PM to 12:00 PM - One half trip in hole with bit. Drilled 15', Circulated and laid down 4 1/2" Drill Pipe to run Casing.

11 12:00 AM to 7:00 AM - Ran 160 joints 4 1/2" J-55 casing, float collar and guide shoe. Set casing with 400 sacks of Neat cement, last 100 sacks contained 45 gallons of Latex, at 5025'. Centralizers were placed on bottom 5 joints.
7:00 AM to 12:00 PM - W.O.C.

12 12:00 AM to 12:00 PM - W.O.C.

13 12:00 AM to 12:00 PM - W.O.C.

14 12:00 AM to 7:30 AM - W.O.C.
7:30 AM to 8:00 AM - Tested 4 1/2" Casing with 1500 lbs pressure for 30 minutes. Test OK.

1961
January

14 8:00 AM to 9:00 AM - Rigged up Well Service Unit
9:00 AM to 2:00 PM - Running Electric Logs
2:00 PM to 3:30 PM - Perforated 25' (4930' to 4955') with 4 shots per foot
3:30 PM to 6:30 PM - Rig up and pick up 2 3/8" tubing
6:30 PM to 12:00 PM - Shut Down

15 12:00 AM to 8:00 AM - Shut Down
8:00 AM to 10:00 AM - Picking up tubing
10:00 AM to 10:30 AM - Connecting up well to Acidize and load hole with water
10:30 AM to 10:50 AM - Spotted 500 gallons of M.A.C. 15% Acid on formation at 2500 lbs pressure. Acid across perforations; formation began to take acid, treatment resumed.
11:02 AM to 12:03 PM - Treated with 10,000 gallons A.L.S.P. 15% Acid
12:03 PM to 12:13 PM - Ten minutes shut in 1400 lbs pressure.
Maximum Pressure: Tubing - 2500 lbs Casing - 1800 lbs
Maximum Injection Rate: 4.2 barrels per minute
Overall injection rate: 3.67 barrels per minute (with 1 pump)
12:30 P.M. - Rigging and swabbing
1:00 P.M - Well started to unload
10:00 PM to 12:00 Midnight - Well unloading into test tank

16 12:00 AM to 12:00 PM - Well unloading into test tank

17 12:00 AM to 12:00 PM - Testing

18 Approximately 920,000 Cubic Feet of Gas. 12 barrels of fluid of which 2 barrels was water and sediment and 10 barrels was oil.

19 Shut-in in accordance with NMOCC Order No. R-1517
Waiting for Pipe Line