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

Form 9-330

N. M. O. C. C. COPY

U. S. LAND OFFICE NM-031186
LEASE NUMBER Co. #231629
UNIT Abo Chalk Draw Unit E

RECEIVED
MAY 25 1960
O. C. C.
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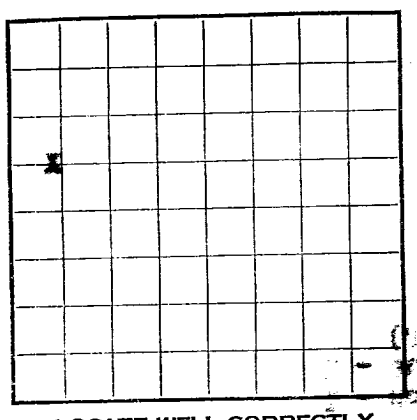
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company Humble Oil & Refining Company Address Box 2180, Houston / Box 2347, Hobbs
Lessor or Tract Abo Chalk Draw Unit Field Empire Abo State New Mexico
Well No. 4 Sec. 9 T. 18-S R. 27-E Meridian NMPM County Eddy
Location 2310 ft. {N.} of S. Line and 990 ft. {E.} of W. Line of Section 9 Elevation 3530' (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

Date May 20, 1960 Title Agent

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

Commenced drilling April 14, 19 60 Finished drilling May 5, 19 60

Completion Date: May 7, 1960

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 5303 to 5666 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#	8rd	Mk	1502	Baker Fill	—	—	—	Surface
4-1/2"	9.5#	8rd	Mk	5651	Baker Fill	—			Production

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	1514	750	Pump & Plug	—	—
4-1/2	5665	800	Pump & Plug	—	—

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

DATES

, 19 Put to producing May 20, 1960, 19

The production for the first 24 hours was 11 barrels of fluid of which 69% was oil; 31% emulsion; % water; and % sediment. 80 Gravity, °Bé. 100 —

If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas 449

Rock pressure, lbs. per sq. in.

EMPLOYEES

, Driller , Driller
Adam Lacke, Driller T. J. Crider, Driller
H. L. Beutler

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	625	625	Redbed & Shale
625	1230	605	Anhydrite & Gyp
1230	1300	70	Anhydrite & Sand
1300	1433	133	Anhydrite & Gyp
1433	1523	90	Anhydrite
1523	1550	27	Anhydrite & Lime
1550	1705	155	Lime
1705	1816	111	Lime & Sand
1816	2148	332	Lime
2148	2305	157	Sand & Lime
2305	2576	271	Lime
2576	2701	125	Sand & Lime
2701	2959	258	Lime
2959	3120	161	Sand & Lime
3120	5206	2086	Lime
5206	5402	196	Lime & Shale
5402	5666-TD	264	Lime

FORMATION TOPS:
San Andres - 1520'
Glorieta-Yeso - 2862'
Abo - 5303'

[OVER]

16—48094-4

FOLD | MARK

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

HISTORY OF OIL OR GAS WELL

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

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.

The well was drilled to a total depth of 5666' with completion depth of 5639.

Spudded 11" hole at 7:00 P.M. 4/14/60. Set 1502' 8-5/8" casing at 1518 with 750 sacks regular neat cement. Cement circulated.

Drilled with water from surface casing to 5105. Mudded up and drilled to TD of 5666. Finished drilling at 1:45 p.m., 5-5-60. Ran electric logs.

Set 5651' of 4½" casing at 5665 with 800 sacks 12% gel cement. Ran temperature survey and found top of cement at 300'. Set 5266' 2-3/8" tbg at 5279' with packer set at 5279'.

Treated water in casing with 800 caustic soda.

Perforated 4½" casing 5548-5556' and 5564-5572' with 2 jet shots per foot. (McCullough)

Swabbed well dry. Acidized perforation with 6000 gallons 15% HCL acid with injection rate of 46 BPM. Swabbed well off.

On potential test, flowed 80 barrels oil in 11 hours on 12/64" choke.

Distribution Orig & 4 - USGS, Artesia
1 - NMOCC, Hobbs
1 - Roswell
1 - Midland
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1 - Hondo, Roswell
1 - State Engineer, Roswell
(James L. Wright)