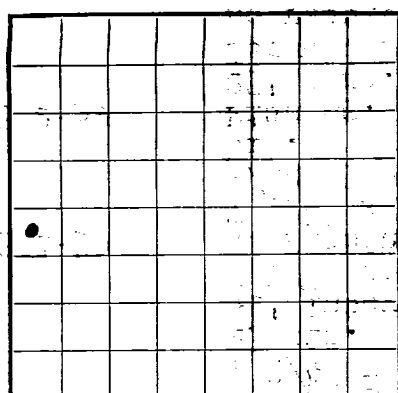


U.S. LAND OFFICE, Navajo Agency
Window Rock, Arizona
SERIAL NUMBER
Wells of Hostein-teil
LEASE OR PERMIT TO PROSPECT
1-149-Ind-9217

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Kern County Land Company Address 304 Korber Bldg., Albuquerque, N.M.
Lessor or Tract Magnolia-Navajo Field Wildcat State New Mexico
Well No. 1 Sec. 11 T. 24N R. 9W Meridian NMPM County San Juan
Location 1980 ft. N of S Line and 660 ft. E of W Line of Sec. 11 Elevation 6644 K.B.
(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

E. P. BurtchellDate March 20, 1959Title Manager - Oil Production

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

Commenced drilling February 16, 1959 Finished drilling March 6, 1959

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from _____ to _____ 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—	
8 5/8	28	8	CF&I	243	Davis open	--			Surface
HISTORY OF OIL OR GAS WELL									

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8	255	200 + 2% gel & 2% CaCl ₂	Pump		Circulated to surface

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shot used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from 0 feet to 5425 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

_____ 19____ Put to producing Never Produced, 19____
The production for the first 24 hours was _____ barrels of fluid of which _____% was oil; _____%
emulsion; _____% water; and _____% sediment. Gravity, °Bé. _____
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 _____, Driller
_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	70	70	Sand, shale
70	260	190	Sand, shale
260	535	275	Sand, shale
535	1509	974	Sand, shale
1509	2474	965	Sand, shale
2474	3060	586	Sand, shale
3060	3585	525	Sand, shale
3585	4000	415	Sand, shale
4000	4438	438	Sand, shale
4438	4794	356	Sand, shale
4794	4838	44	Shale
4838	5016	178	Sand, shale
5016	5160	144	Sand, shale
5160	5214	54	Sand
5214	5249	35	Sand, shale
5249	5275	26	Sand
5275	5425	150	Sand, shale

FROM—

TO—

TOTAL FEET

[OVER]

FORMATION

16-43094-4

FORMATION RECORD—Continued

FROM	TO	TOTAL FEET	FORMED	FORMATION
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DATE	DESCRIPTION	AMOUNT	CHECK NO.	BANK
1/1/19	...	...	...	...
1/2/19	...	...	...	...
1/3/19	...	...	...	...
1/4/19	...	...	...	...
1/5/19	...	...	...	...
1/6/19	...	...	...	...
1/7/19	...	...	...	...
1/8/19	...	...	...	...
1/9/19	...	...	...	...
1/10/19	...	...	...	...
1/11/19	...	...	...	...
1/12/19	...	...	...	...
1/13/19	...	...	...	...
1/14/19	...	...	...	...
1/15/19	...	...	...	...
1/16/19	...	...	...	...
1/17/19	...	...	...	...
1/18/19	...	...	...	...
1/19/19	...	...	...	...
1/20/19	...	...	...	...
1/21/19	...	...	...	...
1/22/19	...	...	...	...
1/23/19	...	...	...	...
1/24/19	...	...	...	...
1/25/19	...	...	...	...
1/26/19	...	...	...	...
1/27/19	...	...	...	...
1/28/19	...	...	...	...
1/29/19	...	...	...	...
1/30/19	...	...	...	...
1/31/19	...	...	...	...

16-43084-2 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 balling.

Building road.
Rt 6 up rotary tools.

Drilled 70-260'. 124th hole, Dev. $\frac{2}{10}$ @ 100', $\frac{2}{10}$ @ 250'. Cemented 242.67'. 8 5/8" H-40 28# casing. Casing landed at 2-17-59

255'. Cemented to surface with 200 sacks regular bulk cement plus 2% gel & 2% CaCl₂. Plug down at 10:30 A.M.

Found top cement 215'. Drilled out cement at 10:30 A.M. Drilled 7 7/8" hole 260-535'.
 MOC 24 hrs. Installed BOP. Pressure tested to 500#.

2-19-59 Drilling 1509'. 1 3/4 @ 1100'. Mud 8.8# 34 vls 8.8 cc
12.5 ph. Bit #2 - 260 to 1470'. 15 hrs.

Drilling 24/4. 3/40 @ 2350. Mud 9.4# 36 418. 6 sec, 8.4
Bt# 3 1470-2350. 18 hrs.
Drilling 3060. 1/20 @ 2872. Mud 9.5# 38 vis 5 sec, 8.4

9 ph. Bt # 2350-2872. 15 hrs. Drilling 3585. 3/40 @ 3183. Mud 9.2# 35 vts. 6.5 cc 9 ph

2-23-59
 Bit # 28/2-3183. 11 3/4 hrs.
 Drilling 4000'. 7 7/8" hole. 1/10 @ 4000. Mud 9-4#, 36
 4.2 cc 2/32". 10 ph. Bit # 6 3183-3622 17 3/4 hrs Bit #

3622-4000. 14 1/2 hrs. 44381. 10 @ 4278. Mud 9.2# 42 vls. 3.6 cc 2/32" 2-24-59

BIT #8 4000-4278. 10 hrs.
Drilling #7941. Mud 9.6# 43 vis. 4.2 cc 8 ph. Bit #9 4278
2-25-59 4698. 19 hrs.

Drilling 5016', Mud 9.5# 45 vls. 4.6 cc 9 ph 2/32". Bkt # 4698-4838. 9 hrs.

2-27-59
 Prep. to core 5100. 1" @ 5030. Mud 9.6# 72 vis. 4 cc 2/32
 9 ph. Bt #11 4838-5030. 13 1/2 hrs. Bt #12 5030-5100.
 10 3/4 hrs. Depth correction 4 1/2 5160
 5160

Drilling 5249'. CORE NO. 1 5164-5214
 7 3/4" x 3 1/2" D & S 111-Dia Diamond. Coring time 8 hrs

23 min. Bowen jars, safety joint. Recovered 49'. 7' sha
42' interbedded, laminated, fine grained sand & shale. Drt

MO FISHING TOOLS. CORE NO. 2 9249-5275 D & S TRL-DR. Diamond Mud 8.6# 59 Vls. 4

2/32" 9 ph. Lost lower half of inner core barrel and diamo

251 core. As above but tighter. Ran Homco, tapered tap. Screws in bit but did not recover. He ran Homco tapered tap.

No results. Made 2 runs with McCullough Junk shot. Could get tools below 2500'. Ran in hole with Homco Clusterite M

(continued)