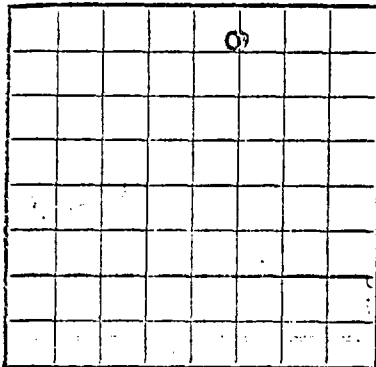


Form 9-330

U. S. LAND OFFICE Artesia
SERIAL NUMBER LC-061581
LEASE OR PERMIT TO PROSPECT



UNITED STATES
RECEIVED DEPARTMENT OF THE INTERIOR
DEC 9 1960 GEOLOGICAL SURVEY
S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Curtis Hankamer Address 1122 Bank of the Southwest Building
Houston 2, Texas
Lessor or Tract Gulf-Federal-Beaty Field Brushy Draw (Del) State New Mexico
Well No. 2 Sec. 24 T. 26S R. 29E Meridian NMPM County Eddy
Location 660 ft. N of N Line and 1980 ft. W of E Line of Section 24 Elevation 2992
(Denote four 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.

Date 11/28/60 Signed Phil C. Hankamer Title Engineer

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

Commenced drilling 10/4, 1960 Finished drilling 11/13, 1960

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from NONE 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 NONE to _____ No. 3, from _____ to _____
No. 2, from _____ to _____ No. 4, from _____ to _____
No. 5, from _____ to _____ No. 6, 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—
This well was drilled with cable tools. Two drilling control strings were set and all pipe pulled from hole.								

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
Adapters—Material _____ XXXX Plugs listed in well history

SHOOTING RECORD

FOLD MARK

Shell used	Depth about	Depth cleaned out
NONE		

TOOLS USED

Rotary tools were used from --- feet to --- feet, and from --- feet to --- feet

Cable tools were used from Ground level --- feet to 3214 TD --- feet, and from --- feet to --- feet

DATES

11/10/60, 19---

Put to producing --- Dry hole ---, 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

E. W. Sutton, Driller

H. T. Marshal, Driller

W. L. Williams, Driller

Driller

FORMATION RECORD

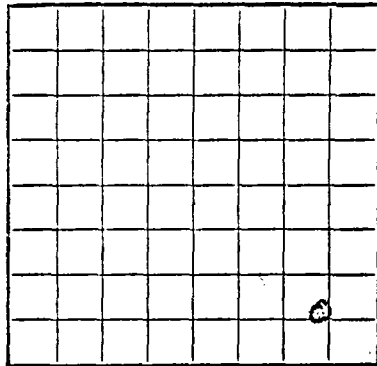
FROM-	TO-	TOTAL FEET	FORMATION
0	30	30	Caliche Rock
30	190	160	Shale
190	250	60	Anhydrite
250	293	43	Goat Rock
293	345	52	Anhydrite
345	375	30	Anhydrite & Goat Rock
375	445	70	Goat Rock
445	450	5	Red Shale
450	475	25	Red Shale & Gypsum
475	500	25	Shells & Shale
500	575	75	Shale
575	600	25	Red Shale
600	610	10	Shale
610	625	15	Anhydrite
625	665	40	Anhydrite & Shale
665	695	30	Anhydrite & Gypsum
695	720	25	Salt, Anhydrite & Gypsum
720	725	5	Anhydrite
725	745	20	Anhydrite & Gypsum
745	780	35	Anhydrite & Gypsum & Salt
780	815	35	Salt
815	835	20	Anhydrite & Gypsum
835	890	55	Anhydrite
890	895	5	Salt & Shale
895		30	Shale & Gypsum

FORMATION RECORD—Continued

10-48094-4

FORMATION RECORD—Continued

FROM-	TO-	TOTAL FEET	FORMATION
895	925	30	Anhydrite & Gypsum
925	930	5	Red Shale
930	1020	90	Anhydrite & Shale
1020	1080	40	Anhydrite
1080	1100	20	Shale
1100	1150	50	Anhydrite & Gypsum
1150	1205	55	Anhydrite & Shale
1205	1315	110	Anhydrite & Gypsum
1315	1342	27	Shale
1342	1470	128	Anhydrite & Gypsum
1470	1485	15	Anhydrite
1485	2485	1000	Shale
2485	2622	137	Anhydrite
2622	2725	103	Salt
2725	2968	243	Anhydrite
2968	3154	186	Salt
3154	3202	48	Anhydrite & Gypsum
3202	3214	12	Black Lign
			Sand
			variegated & coarse rock
			variegated
			coarse rock
			variegated
			grate
			crystalline rock
FROM-	TO-	TOTAL FEET	FORMATION
FORMATION RECORD			
H. F. MATTESON		Driller	Driller
E. J. GIFFON		Driller	H. J. HARRIS
EMPLOYEES			
Rock Blasting		Giffon's Blasting	
H. J. Giffon		Giffon's Blasting	
The production for the first		Giffon's Blasting	
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LOCATE WELL CORRECTLY

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER SM-01917
LEASE OR PERMIT TO PROSPECT _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Curtis Hankamer Address 1422 Bank of the Southwest Bldg.
Lessor or Tract Gulf-Managan Field Wildcat Houston 2, Texas
Well No. 1 Sec. 11 T. 24S R. 32E Meridian N.M. County Lea
Location 660 ft. [N.] of 5 Line and 660 ft. [W.] of 11 Line of Sec. 11 Elevation 635.8
(Derive Elev. 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 [Signature]Date 4-4-62 Title Engineer

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

Commenced drilling 2-23, 1962 Finished drilling 3-5, 1962

OIL OR GAS SANDS OR ZONES

(Denote gas by G)
No. 1, from 2970 to 5024 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 Base 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"	45.0	6	HYDRONAL	1000	1000	1000			Production
1-1/2"	10.0	6	HYDRONAL	500	500	500			Production
2"	16.0	6	HYDRONAL	1500	1500	1500			Production
									Running string

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	373	150 ex plus 18 gal	Plug	12.0	Displacement
1-1/2"	503	250 ex plus 20 gal	"	"	"

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 , 19.....

The production for the first 24 hours was barrels of fluid of which 4-2- % was oil; %
 emulsion; % water; and % sediment. 35 Gravity, °Bé. 60

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	328	328	Surface formation and red bed
328	610	282	Anhydrite and shale
610	1320	710	Anhydrite
1320	2590	270	Salt and anhydrite
2590	3525	935	Anhydrite
3525	3840	315	Anhydrite
3840	4310	470	Salt and anhydrite
4310	4836	526	Anhydrite and lime
4836	4920	84	Anhydrite
4920	4951	31	Lime
4951	5065	114	Sand w/shale streaks
5065 TD			
			Base Lower Salt - 4634'
			Top Delaware Lime - 4920'
			Top Delaware Sand - 4951'
FROM—	TO—	JOINT LEVEL	FORMATION

(OVER)

FORMATION RECORD—Continued