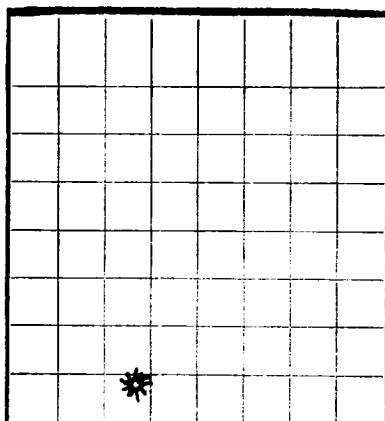




LOCATE WELL CORRECTLY

RECEIVED

U. S. LAND OFFICE

LAS CRUCES

SERIAL NUMBER

021804

LEASE OR PERMIT TO PROSPECT

LEASE

AUG 10 1965

UNITED STATES

ARTESIA, NEW MEXICO

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

RECEIVED

JUL 23 1965

U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

LOG OF OIL OR GAS WELL

Company FREN OIL COMPANY - Suite 9-P Address 913 El Paso National Bank Bldg., El Paso,
Lessor or Tract Max Friess - Lease Field Wildcat State Texas 79901
Well No. 21 Sec. 19 T. 17S. R. 31E. Meridian N.M.P.M. County Eddy
Location 560 ft. [N.] of south line and 3350 ft. [W.] of east line of Section 19 Elevation 3579 'G.L.
(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

Max Enginger

Date July 20, 1965Title Member of Partnership

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

Commenced drilling March 27, 1965 Finished drilling June 13, 1965

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 11139' to 11154' (G) No. 4, from _____ to _____
No. 2, from 11204' to 11227' (G) 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—	
13-3/8"	48								
9-5/8"	26								
7"	20								
									Oil string

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13-3/8"	369'	300	Halliburton		
9-5/8"	3210'	600	"		
7"	12275'	575 (1st stage 350) and (2nd " 225)	"	balance mud	

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 surface feet to 12299' feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

Put to producing shut-in 1965
Test 18 production for the first 24 hours was 114 barrels Distillate % was oil; _____ %
emulsion; no % water; and _____ % sediment. Gravity, °Bé. _____

If gas well, cu. ft. per 12 hours 1,600 MCF. 446 Bbls. of Distillate ft. of gas on 17/64" Choke

Rock pressure, lbs. per sq. in. 5192#

EMPLOYEES

_____, Driller _____, Driller
_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	340	340	Red beds, <u>sn. thin sands</u>
340	1430	1090	Salr, <u>anhy., gyp., sn. red beds</u>
1430	2800	1470	Dolomite, red & gry. f.g.sd. & red sh. anhy.
2800	3205	405	" with thin gry. f.g.sd. zones
3205	4730	1525	Dolomite
4730	6914	2184	Devonian Predom. dirty brn to blk. shly, cherty line
6914	6920	6	Green shale
6920	7300	380	Reef dolomite
7300	8120	820	Light colored anhy'tic dolomite
8120	8950	830	Predom. lime with thin zones of dolo. & sh.
8950	10375	1425	Alternating gry. to blk. calc. sh. & lime zones, some chert, more shale than lime;
10375	10620	245	Predom. lime, sd., sl. cherty. sn. gzt. 'tic sd.;
10620	11554	934	" gry. to blk. sh. with few thin sd. and lime zones;
11554	11688	134	Lime at top and predom. sh. at bottom
11688	12219	531	Solid lime, cherty in upper half
12219	12281	62	Brn. to blk. sh.
12281	12299	18	Porous white dolomite.

FORMATION TOPS: (all electric logs except Devonian)

Rustler	340'	Cisco Line	9230'
Yates	1430'	Stream Line	10376'
Queen	2393'	Bend	10620'
San Andres	3205'	Narrow Line	10975'
Glennetta	4730'	Chatter	11554'
Abo Grn. Sh.	6914'	Lower Main	11688'
Abo Reef	6920'	Woodford	12219'
Wolfcamp Line	8120'	Devonian	12281'

RECEIVED

LOG OF OIL OR GAS WELL

Y. J. JENSEN, JR. AND J. STARR

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

Commenced drilling	March 27	1965	Finished drilling	June 13	1965
--------------------	----------	------	-------------------	---------	------

OIL OR GAS SANDS OR ZONES

(1) (b) (i) (A) (B) (C) (D) (E) (F) (G) (H) (I) (J) (K) (L) (M) (N) (O) (P) (Q) (R) (S) (T) (U) (V) (W) (X) (Y) (Z) (AA) (AB) (AC) (AD) (AE) (AF) (AG) (AH) (AI) (AJ) (AK) (AL) (AM) (AN) (AO) (AP) (AQ) (AR) (AS) (AT) (AU) (AV) (AW) (AX) (AY) (AZ) (BA) (BB) (BC) (BD) (BE) (BF) (BG) (BH) (BI) (BJ) (BK) (BL) (BM) (BN) (BO) (BP) (BQ) (BR) (BS) (BT) (BU) (BV) (BW) (BX) (BY) (BZ) (CA) (CB) (CC) (CD) (CE) (CF) (CG) (CH) (CI) (CJ) (CK) (CL) (CM) (CN) (CO) (CP) (CQ) (CR) (CS) (CT) (CU) (CV) (CW) (CX) (CY) (CZ) (DA) (DB) (DC) (DD) (DE) (DF) (DG) (DH) (DI) (DJ) (DK) (DL) (DM) (DN) (DO) (DP) (DQ) (DR) (DS) (DT) (DU) (DV) (DW) (DX) (DY) (DZ) (EA) (EB) (EC) (ED) (EE) (EF) (EG) (EH) (EI) (EJ) (EK) (EL) (EM) (EN) (EO) (EP) (EQ) (ER) (ES) (ET) (EU) (EV) (EW) (EX) (EY) (EZ) (FA) (FB) (FC) (FD) (FE) (FF) (FG) (FH) (FI) (FJ) (FK) (FL) (FM) (FN) (FO) (FP) (FQ) (FR) (FS) (FT) (FU) (FV) (FW) (FX) (FY) (FZ) (GA) (GB) (GC) (GD) (GE) (GF) (GG) (GH) (GI) (GJ) (GK) (GL) (GM) (GN) (GO) (GP) (GQ) (GR) (GS) (GT) (GU) (GV) (GW) (GX) (GY) (GZ) (HA) (HB) (HC) (HD) (HE) (HF) (HG) (HH) (HI) (HJ) (HK) (HL) (HM) (HN) (HO) (HP) (HQ) (HR) (HS) (HT) (HU) (HV) (HW) (HX) (HY) (HZ) (IA) (IB) (IC) (ID) (IE) (IF) (IG) (IH) (II) (IJ) (IK) (IL) (IM) (IN) (IO) (IP) (IQ) (IR) (IS) (IT) (IU) (IV) (IW) (IX) (IY) (IZ) (JA) (JB) (JC) (JD) (JE) (JF) (JG) (JH) (JI) (JJ) (JK) (JL) (JM) (JN) (JO) (JP) (JQ) (JR) (JS) (JT) (JU) (JV) (JW) (JX) (JY) (JZ) (KA) (KB) (KC) (KD) (KE) (KF) (KG) (KH) (KI) (KJ) (KK) (KL) (KM) (KN) (KO) (KP) (KQ) (KR) (KS) (KT) (KU) (KV) (KW) (KX) (KY) (KZ) (LA) (LB) (LC) (LD) (LE) (LF) (LG) (LH) (LI) (LJ) (LK) (LL) (LM) (LN) (LO) (LP) (LQ) (LR) (LS) (LT) (LU) (LV) (LW) (LX) (LY) (LZ) (MA) (MB) (MC) (MD) (ME) (MF) (MG) (MH) (MI) (MJ) (MK) (ML) (MM) (MN) (MO) (MP) (MQ) (MR) (MS) (MT) (MU) (MV) (MW) (MX) (MY) (MZ) (NA) (NB) (NC) (ND) (NE) (NF) (NG) (NH) (NI) (NJ) (NK) (NL) (NM) (NN) (NO) (NP) (NQ) (NR) (NS) (NT) (NU) (NV) (NW) (NX) (NY) (NZ) (OA) (OB) (OC) (OD) (OE) (OF) (OG) (OH) (OI) (OJ) (OK) (OL) (OM) (ON) (OO) (OP) (OQ) (OR) (OS) (OT) (OU) (OV) (OW) (OX) (OY) (OZ) (PA) (PB) (PC) (PD) (PE) (PF) (PG) (PH) (PI) (PJ) (PK) (PL) (PM) (PN) (PO) (PP) (PQ) (PR) (PS) (PT) (PU) (PV) (PW) (PX) (PY) (PZ) (QA) (QB) (QC) (QD) (QE) (QF) (QG) (QH) (QI) (QJ) (QK) (QL) (QM) (QN) (QO) (QP) (QQ) (QR) (QS) (QT) (QU) (QV) (QW) (QX) (QY) (QZ) (RA) (RB) (RC) (RD) (RE) (RF) (RG) (RH) (RI) (RJ) (RK) (RL) (RM) (RN) (RO) (RP) (RQ) (RR) (RS) (RT) (RU) (RV) (RW) (RX) (RY) (RZ) (SA) (SB) (SC) (SD) (SE) (SF) (SG) (SH) (SI) (SJ) (SK) (SL) (SM) (SN) (SO) (SP) (SQ) (SR) (SS) (ST) (SU) (SV) (SW) (SX) (SY) (SZ) (TA) (TB) (TC) (TD) (TE) (TF) (TG) (TH) (TI) (TJ) (TK) (TL) (TM) (TN) (TO) (TP) (TQ) (TR) (TS) (TT) (TU) (TV) (TW) (TX) (TY) (TZ) (UA) (UB) (UC) (UD) (UE) (UF) (UG) (UH) (UI) (UJ) (UK) (UL) (UM) (UN) (UO) (UP) (UQ) (UR) (US) (UT) (UU) (UV) (UW) (UX) (UY) (UZ) (VA) (VB) (VC) (VD) (VE) (VF) (VG) (VH) (VI) (VJ) (VK) (VL) (VM) (VN) (VO) (VP) (VQ) (VR) (VS) (VT) (VU) (VV) (VW) (VX) (VY) (VZ) (WA) (WB) (WC) (WD) (WE) (WF) (WG) (WH) (WI) (WJ) (WK) (WL) (WM) (WN) (WO) (WP) (WQ) (WR) (WS) (WT) (WU) (WV) (WW) (WX) (WY) (WZ) (XA) (XB) (XC) (XD) (XE) (XF) (XG) (XH) (XI) (XJ) (XK) (XL) (XM) (XN) (XO) (XP) (XQ) (XR) (XS) (XT) (XU) (XV) (XW) (XX) (XY) (XZ) (YA) (YB) (YC) (YD) (YE) (YF) (YG) (YH) (YI) (YJ) (YK) (YL) (YM) (YN) (YO) (YP) (YQ) (YR) (YS) (YT) (YU) (YV) (YW) (YX) (YZ) (ZA) (ZB) (ZC) (ZD) (ZE) (ZF) (ZG) (ZH) (ZI) (ZJ) (ZK) (ZL) (ZM) (ZN) (ZO) (ZP) (ZQ) (ZR) (ZS) (ZT) (ZU) (ZV) (ZW) (ZX) (ZY) (ZZ)

No. 1, from 1132' to 1131' (c)	No. 4, from _____ to _____
No. 2, from 1131' to 1130' (d)	No. 5, from _____ to _____
No. 3, from _____ to _____	No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____
No. 2, from _____ to _____
No. 3, from _____ to _____
No. 4, from _____ to _____

CASING RECORD

[illegible]

STORY OF OIL OR GAS WELL

MUDDING AND CEMENTING RECORD

Case No.	Number bags of cement	Method used	Kind of gravel	Amount of mud used
100	100	"	"	"
101	100	"	"	"
102	100	"	"	"
103	100	"	"	"
104	100	"	"	"
105	100	"	"	"
106	100	"	"	"
107	100	"	"	"
108	100	"	"	"
109	100	"	"	"
110	100	"	"	"
111	100	"	"	"
112	100	"	"	"
113	100	"	"	"
114	100	"	"	"
115	100	"	"	"
116	100	"	"	"
117	100	"	"	"
118	100	"	"	"
119	100	"	"	"
120	100	"	"	"

PLUGS AND ADAPTERS

Heaving plug—Material	Length	Depth set
Abundant—Aluminum	Size	

SHOOTING RECORD

[illegible]

TOOLS USED

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

DATE

19	19
Gas well, cu. ft. per 24 hours	Production for the first 24 hours was
% water; and	% sediment
Emulsion;	
Gravity, °Bé.	parts of which
Put to producing	% was oil;

EMPLOYEES

Driller			
Driller			

FORMATION RECORD

FORMATION	TOTAL FEET	TO -	FROM -
Known white dolomite	18	12200	12200
Thin to thick	82	12282	12282
Solid lime, cherty in upper half	21	12303	12303
Lime at top and bottom	124	12427	12427
and lime zones;			
gray to blue with thin cherty	22	12449	12449
limestone, silty, cherty, and gray, blue	210	12659	12659
some, some cherty, some shale thin			
Alternating gray to blue, calc. and shale	122	12781	12781
Freedom, lime with thin zones of dol. & sh	830	13611	13611
light colored sandy the dolomite	220	13831	13831
Free dolomite	380	14211	14211
thin shale	6	14217	14217
Freedom Freedom, dirty brown to blue, silty	212	14429	14429
Dolomite	122	14551	14551
" with thin gray, blue, some	102	14653	14653
Dolomite, red & gray, blue, silty	1270	15923	15923
Silt, silty, blue, red & white	1090	17013	17013
Red & blue with thin zones	210	17223	17223

(c) (5) DPP, (c) (7)(F), (b) (7)(C)

Rustler	310	Office Line	10370
Kuba	1180	Stream Line	10370
Crown	1390	Bong	10370
San Antonio	3200	Bottom Line	10370
Grand Total	6000	TOTAL REEL	10370

FORMATION

FORMATION RECORD - Continued

7-10031