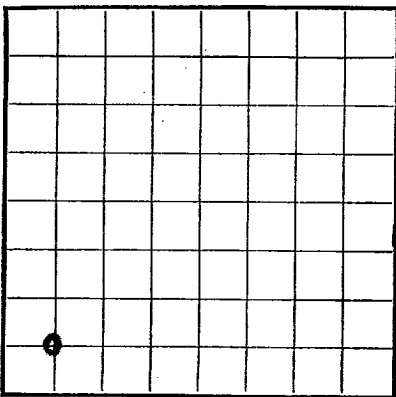


U. S. LAND OFFICE **Santa Fe**SERIAL NUMBER **12-061497**

LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

RECEIVED UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO
FEB 26 1962
FEB 27 1962

LOG OF OIL OR GAS WELL

Company **Curtis Hankamer** Address **1427 West of the Southwest, Houston, Texas**
Lessor or Tract **Gulf Federal B** Field **Brushy Draw** State **New Mexico**
Well No. **1-1** Sec. **13** T. **26S** R. **29E** Meridian **NPM** County **Eddy**
Location **660** ft. **N.** of **S.** Line and **660** ft. **E.** of **W.** Line of **Sec. 13** Elevation **2954.5** ft.
(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 **Phil Hankamer**
Title **Engineer**

Date **February 22, 1962**

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

Commenced drilling **January 22, 1962**, 19 **62** Finished drilling **February 1**, 19 **62**

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **3150** to **3155** No. 4, from _____ to _____
No. 2, from **3170** to **3200** 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"	319	75	AM	50	Heat Plug	9.8			Displaced casing
4-1/2"	3165	130	AM			9.8			
2"	3151	Tubing							

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	319	75	Heat Plug	9.8	Displaced casing
4-1/2"	3165	130		9.8	
2"	3151	Tubing			

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 **0** feet to **3275** feet, and from _____ feet to _____ feet

DATES

Put to producing _____, 19 **62**
The production for the first **24** hours was _____ barrels of fluid of which _____ was oil; **62%**
emulsion; _____ % water; and _____ % sediment. **38** Gravity, °Bé. **60**
If gas **100** cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of oil **10.5**
Rock pressure, lbs. per sq. in. _____

EMPLOYEES

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

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	235	235	Red rock and sand
235	320	85	Red rock
320	845	525	At the end of complete driller's log, add geologic term, state whether or not it is a formation.
845	1470	625	Salt and anhydrite
1470	1830	360	Salt and anhydrite
1830	2150	320	Anhydrite and gypsum
2150	2531	381	Anhydrite and gypsum
2531	3075	544	Salt and anhydrite
3075	3275	200	Anhydrite
			Sand

(OVER)

FORMATION RECORD—Continued

16-48094-3

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

A blank sheet of graph paper with a grid pattern. The grid consists of horizontal and vertical lines forming small squares. There are approximately 20 columns and 15 rows visible. A small dark mark or smudge is present near the bottom right corner of the page.

LOCATE WELL CORRECTLY

The warranty on this page is for the condition of the wheel at the date of sale.

Date: January 22, 1962

Signature: [Signature]

Title: [Title]

Oil or Gas Sands or Zones
(Describe gas if G)
Oil or Gas Sands or Zones
January 22, 1963
Finished drilling
January 22, 1963

Well was drilled to a TD of 3275' - 4-1/2" casing run to 3265' and cemented 8 1/2" packs fresh cement. Casing was washed @ 3171 and 3177. Sand was sand-fractured w/1000 Gallons Nitrogen Washed 3172 and 1000' 20-40 sand. Well flowed back Pressure off and flowing 30 barrels/day w/205 water on 8/24 choke No. 8, from 3265' to 3269' No. 5, from 3269' to 3270' No. 4, from 3270' to 3275' casing pressure.

Casing per foot	Thread per inch	Make	Amount	Kind of shoe	Cut and pulled from	From To	Purposes
This of the greatest importance to have a complete history of the well. 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 checked for left in the well, give date, and position. I have a complete ^{complete} history of the well. of shoes. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.							

Order number	Where set	Number sacks of cement	Weight used	Fluid gravity	Amount of mud used
1-12-2	3588	15 ex 84 10 ex 100	11.0	1.0	11.0
1-12-3	3589	15 ex 84 10 ex 100	11.0	1.0	11.0
1-12-4	3590	15 ex 84 10 ex 100	11.0	1.0	11.0
1-12-5	3591	15 ex 84 10 ex 100	11.0	1.0	11.0
1-12-6	3592	15 ex 84 10 ex 100	11.0	1.0	11.0
1-12-7	3593	15 ex 84 10 ex 100	11.0	1.0	11.0
1-12-8	3594	15 ex 84 10 ex 100	11.0	1.0	11.0
1-12-9	3595	15 ex 84 10 ex 100	11.0	1.0	11.0
1-12-10	3596	15 ex 84 10 ex 100	11.0	1.0	11.0
1-12-11	3597	15 ex 84 10 ex 100	11.0	1.0	11.0
1-12-12	3598	15 ex 84 10 ex 100	11.0	1.0	11.0
1-12-13	3599	15 ex 84 10 ex 100	11.0	1.0	11.0
1-12-14	3600	15 ex 84 10 ex 100	11.0	1.0	11.0
1-12-15	3601	15 ex 84 10 ex 100	11.0	1.0	11.0
1-12-16	3602	15 ex 84 10 ex 100	11.0	1.0	11.0
1-12-17	3603	15 ex 84 10 ex 100	11.0	1.0	11.0
1-12-18	3604	15 ex 84 10 ex 100	11.0	1.0	11.0
1-12-19	3605	15 ex 84 10 ex 100	11.0	1.0	11.0
1-12-20	3606	15 ex 84 10 ex 100	11.0	1.0	11.0
1-12-21	3607	15 ex 84 10 ex 100	11.0	1.0	11.0
1-12-22	3608	15 ex 84 10 ex 100	11.0	1.0	11.0
1-12-23	3609	15 ex 84 10 ex 100	11.0	1.0	11.0
1-12-24	3610	15 ex 84 10 ex 100	11.0	1.0	11.0
1-12-25	3611	15 ex 84 10 ex 100	11.0	1.0	11.0
1-12-26	3612	15 ex 84 10 ex 100	11.0	1.0	11.0
1-12-27	3613	15 ex 84 10 ex 100	11.0	1.0	11.0
1-12-28	3614	15 ex 84 10 ex 100	11.0	1.0	11.0
1-12-29	3615	15 ex 84 10 ex 100	11.0	1.0	11.0
1-12-30	3616	15 ex 84 10 ex 100	11.0	1.0	11.0
1-12-31	3617	15 ex 84 10 ex 100	11.0	1.0	11.0
1-12-32	3618	15 ex 84 10 ex 100	11.0	1.0	11.0
1-12-33	3619	15 ex 84 10 ex 100	11.0	1.0	11.0
1-12-34	3620	15 ex 84 10 ex 100	11.0	1.0	11.0
1-12-35	3621	15 ex 84 10 ex 100	11.0	1.0	11.0
1-12-36	3622	15 ex 84 10 ex 100	11.0	1.0	11.0
1-12-37	3623	15 ex 84 10 ex 100	11.0	1.0	11.0
1-12-38	3624	15 ex 84 10 ex 100	11.0	1.0	11.0
1-12-39	3625	15 ex 84 10 ex 100	11.0	1.0	11.0
1-12-40	3626	15 ex 84 10 ex 100	11.0	1.0	11.0
1-12-41	3627	15 ex 84 10 ex 100	11.0	1.0	11.0
1-12-42	3628	15 ex 84 10 ex 100	11.0	1.0	11.0
1-12-43	3629	15 ex 84 10 ex 100	11.0	1.0	11.0
1-12-44	3630	15 ex 84 10 ex 100	11.0	1.0	11.0
1-12-45	3631	15 ex 84 10 ex 100	11.0	1.0	11.0
1-12-46	3632	15 ex 84 10 ex 100	11.0	1.0	11.0
1-12-47	3633	15 ex 84 10 ex 100	11.0	1.0	11.0
1-12-48	3634	15 ex 84 10 ex 100	11.0	1.0	11.0
1-12-49	3635	15 ex 84 10 ex 100	11.0	1.0	11.0
1-12-50	3636	15 ex 84 10 ex 100	11.0	1.0	11.0
1-12-51	3637	15 ex 84 10 ex 100	11.0	1.0	11.0
1-12-52	3638	15 ex 84 10 ex 100	11.0	1.0	11.0
1-12-53	3639	15 ex 84 10 ex 100	11.0	1.0	11.0
1-12-54	3640	15 ex 84 10 ex 100	11.0	1.0	11.0
1-12-55	3641	15 ex 84 10 ex 100	11.0	1.0	11.0
1-12-56	3642	15 ex 84 10 ex 100	11.0	1.0	11.0
1-12-57	3643	15 ex 84 10 ex 100	11.0	1.0	11.0

SHOOTING RECORD		PLUGS AND ADAPTERS	
	Size	Length	Draft set
Aapters - Material			
Hearing plug - Material			

[illegible]

Cable tools were used from		Rotary tools were used from	
feet to	feet	feet to	feet
feet from	feet	feet from	feet

TESTING		RESULTS		COMMENTS		REMARKS	
1	10	10	10	10	10	10	10
2	10	10	10	10	10	10	10
3	10	10	10	10	10	10	10
4	10	10	10	10	10	10	10
5	10	10	10	10	10	10	10
6	10	10	10	10	10	10	10
7	10	10	10	10	10	10	10
8	10	10	10	10	10	10	10
9	10	10	10	10	10	10	10
10	10	10	10	10	10	10	10

Rock pressure, lbs. per sq. in.	EMPLOYEES	Gallons gasoline per 1,000 cu. ft. of gas
Il gas well, cu. ft. per 24 hours		

FROM—	TO—	TOTAL FEET	FORMATION
			FORMATION RECORD
			Driller
			Driller

3532	3531	3530	3529
3528	3527	3526	3525
3524	3523	3522	3521
3520	3519	3518	3517
3516	3515	3514	3513
3512	3511	3510	3509
3508	3507	3506	3505
3504	3503	3502	3501
3500	3499	3498	3497
3496	3495	3494	3493
3492	3491	3490	3489
3488	3487	3486	3485
3484	3483	3482	3481
3480	3479	3478	3477
3476	3475	3474	3473
3472	3471	3470	3469
3468	3467	3466	3465
3464	3463	3462	3461
3460	3459	3458	3457
3456	3455	3454	3453
3452	3451	3450	3449
3448	3447	3446	3445
3444	3443	3442	3441
3440	3439	3438	3437
3436	3435	3434	3433
3432	3431	3430	3429
3428	3427	3426	3425
3424	3423	3422	3421
3420	3419	3418	3417
3416	3415	3414	3413
3412	3411	3410	3409
3408	3407	3406	3405
3404	3403	3402	3401
3400	3399	3398	3397
3396	3395	3394	3393
3392	3391	3390	3389
3388	3387	3386	3385
3384	3383	3382	3381
3380	3379	3378	3377
3376	3375	3374	3373
3372	3371	3370	3369
3368	3367	3366	3365
3364	3363	3362	3361
3360	3359	3358	3357
3356	3355	3354	3353
3352	3351	3350	3349
3348	3347	3346	3345
3344	3343	3342	3341
3340	3339	3338	3337
3336	3335	3334	3333
3332	3331	3330	3329
3328	3327	3326	3325
3324	3323	3322	3321
3320	3319	3318	3317
3316	3315	3314	3313
3312	3311	3310	3309
3308	3307	3306	3305
3304	3303	3302	3301
3300	3299	3298	3297
3296	3295	3294	3293
3292	3291	3290	3289
3288	3287	3286	3285
3284	3283	3282	3281
3280	3279	3278	3277
3276	3275	3274	3273
3272	3271	3270	3269
3268	3267	3266	3265
3264	3263	3262	3261
3260	3259	3258	3257
3256	3255	3254	3253
3252	3251	3250	3249
3248	3247	3246	3245
3244	3243	3242	3241
3240	3239	3238	3237
3236	3235	3234	3233
3232	3231	3230	3229
3228	3227	3226	3225
3224	3223	3222	3221
3220	3219	3218	3217
3216	3215	3214	3213
3212	3211	3210	3209
3208	3207	3206	3205
3204	3203	3202	3201
3200	3199	3198	3197
3196	3195	3194	3193
3192	3191	3190	3189
3188	3187	3186	3185

of Polarsure Line Transmagnetic Log is 304'. Bottom Floor 10' above G.L.
of Polarsure Sand from electric Log is 324'.

FROM—	TO—	TOTAL FEET	FORMATION
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