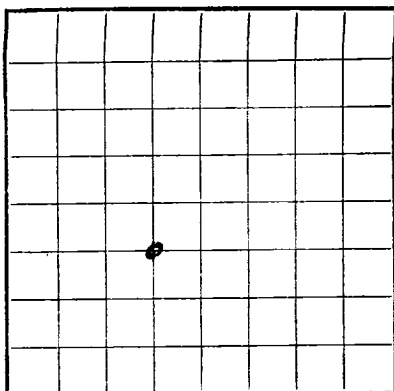


U. S. LAND OFFICE **Las Cruces**
SERIAL NUMBER **LC 060476**
LEASE OR PERMIT TO PROSPECT _____

RECEIVED

FEB 6 1964 UNITED STATES
DEPARTMENT OF THE INTERIOR
O. C. C.
ARTESIA, OFFICE GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company **Olen F. Featherstone** Address **236 Petroleum Bldg., Roswell, N.M.**
Lessor or Tract **Featherstone Trust K-27** Field **Square Lake** State **New Mexico**
Well No. **1** Sec. **27T** **16S** **31E** Meridian **N.M.P.** County **Eddy**
Location **1980** [N] of **S** Line and **1980** [E] of **W** Line of **27-16S-31E** Elevation **4060' DF**
(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 **Rex Alcorn**Date **February 4, 1964**Title **Geologist**

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

Commenced drilling **December 15** 19 **63** Finished drilling **December 30** 19 **63**
Completed: **Jan. 9, 1964 (First Production)**

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **3586** to **3627 (Premier)** No. 4, from _____ to _____
No. 2, from **3730** to **3756 (Lovington)** 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 AND PERFORATIONS

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
8-5/8	24.7	8	CP45	359	Texas Pattern	Surface Str.			Surface Str.
5-1/2	17.7	8	CP45	3765	Flashed Shoe	Prod. Str.			Prod. Str.
PERFS 2 Shots per/ft. 3588, 3589, 3619, 3624 and 3625 (Premier)									
2 Shots per/ft. 3741, 3744, 3746, 3748, 3750, 3752 & 3756 (Lovington)									

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8	359	150 sx	Denton		
5-1/2	3765	200 sx	Denton		

PLUGS AND ADAPTERS

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

SANDFRACT SHOOTING RECORD

Size	Shells used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
Sand-Oil Fract		Premier w/10,000 gals oil and 8000# 20/40 sand.				
Sand-Oil Fract		Lovington w/20,000 gals oil and 16,000# 20/40 sand.				

TOOLS USED

Rotary tools were used from **Surface** feet to **3775 TD** feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

Put to producing **January 9**, 19 **64**The production for the first 24 hours was **74 325** barrels of fluid of which **100**% was oil; _____% emulsion; _____% water; and _____% sediment. Gravity, °Bé. **37.0° API**

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

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

Donnelly Drilling Co. Inc. Driller _____, Driller
_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0'	700'	700'	Caliche, red beds, sand & lime streaks
700	888	188	Anhydrite & salt
888	1885	997	Salt w/streaks of anhy
1885	1985	100	Anhydrite
1985	2287	302	Sand, Anhy, & dolomite
2287	2893	606	Anhydrite, dolo, streaks of sand
2893	3292	399	Sand, anhy & dolo
3292	3575	283	Anhy and dolo
3575	3625	50	Core #1, Premier Sd (See Reverse Side)
3625	3725	100	Dolo w/streaks of Anhydrite
3725	3775 (TD)	50	Core #2, Lovington Sd, (See Reverse Side)
[Over for Core Descriptions And Formation Tops.]			

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
CORE #1	3575-3625 (50') Premier Zone		
			Recoverd 50' as follows:
			7.0' Dolomite
			5.0' Sand, odor & s/o
			2.5' Shale Sand
			0.5' Anhydrite
			3.0' Shale Sand w/inclusions of Anhy. & dolo
			4.5' Sandy Shale
			1.5' Shale Sandy dolomite
			1.0' Red Sandy Shale
			1.0' Dolomite Sand
			2.0' Red Dolomitic Shale
			1.0' Dolomite
			3.0' Sand, odor & s/o
			3.0' Red Shale
			0.5' Dolomite
			3.0' Sand, odor & s/o
			1.0' Red Shale
			1.5' Dolomite
			1.5' Anhydritic & Shale dolomite
			Before Bands
			3583 - 3583.5
			3584 - 3585.5
			3604 - 3608
			3613.5 - 3615.5
			3619 - 3622.5
			10.5'
			Recoverd 50' as follows:
			4.0' Fractured dolo w/shale partings
			2.0' Silty Sand, sil. shly w/odor & s/o
			2.0' Dolomite w/shale partings
			2.5' Fine grained dolomitic sand, odor & s/o
			12.9' Clean Sand, Good porosity, odor and s/o
			1.5' Shale Sand w/odor and s/o
			0.5' Very Shale Sand, odor & s/o
			3.5' Clean sand w/good porosity, odor & s/o
			2.5' Shale dolomite
			19.0' Dolomite w/shale partings, very shaly & 3758-59, 3760-62
			Before Bands
			3733-3735.5
			3735.5-3748
			3750 - 3753.5
			18.5'
			12.5'
			3.5'
			18.5'

HISTORY OF OIL OR GAS WELL

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.

FORMATION TOPS BY GAMMA-RAY ACOUSTIC LOG

Station 4060' KB, 4050' GR

Refract Anhydrite	701'	Lowington	3730'
Top Salt	888'	Base Lowington	3756'
Base Salt	1885'	TD-Dirt	3775'
Layers	1985'	TD-GammaRay	3776'
Green Shale	2287'		
Queen	2893'		
Grayburg	3293'		
Premier	3586'		

San Andres 3627'