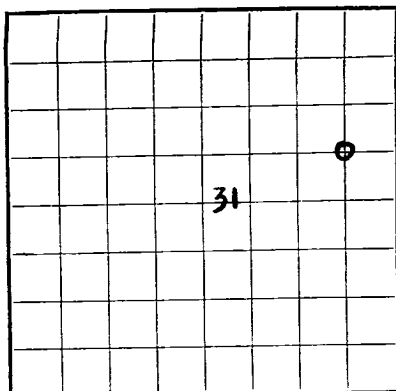


U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 063623
LEASE OR PERMIT TO PROSPECT _____



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Southwestern Hydrocarbon Address P.O. Box 4787, Midland, Texas
Lessor or Tract Union-Federal Field Sawyer-San Andres State New Mexico
Well No. 3 Sec. 31 T 9S R 38E Meridian NMPM County Lea
Location 1980 ft. 125 of N Line and 660 ft. 125 of E Line of Section 31 Elevation 3929
(Depth from 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 _____ J.A. Sheldon

Date 7/1/60 Title Agent & Genl. Consultant

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

Commenced drilling -----, 19-- Finished drilling -----, 19--

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 1896 to 1977 Fr. 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. 2, from _____ to _____

No. 3, from _____ to _____

No. 4, from _____ to _____

CASING RECORD

[illegible]

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8	313	175			
5 1/2	494	200			

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set

Adapters—Material _____ Size PB to 1974 w/lead wool

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 Completed as Shut-in Gas Well

Put to producing ----- 6/28/ -----, 1960.

The production for the first 24 hours was 16 barrels of fluid of which 75% was oil; —% emulsion; 25% water; and —% sediment. Gravity, ~~°BX~~ 39° API

If gas well, cu. ft. per 24 hours 1,172,000..... Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in. 600

EMPLOYEES

_____, Driller _____, Driller

_____, Driller

FORMATION RECORD

FROM--	TO--	TOTAL FEET	FORMATION
4896	4977	81	San Andres Porosity

[OVER]

16--43094-

[illegible]

Shut-in casing head pressure; 1450 psig. Opened well and blew down gas pressure in 2 hrs. Ran Halliburton wire line to 4964 ft., not reaching previous PB depth of 4974 ft. Loaded hole with fresh water to kill well. Ran GR-N Log from surface to 4961 ft., not able to reach bottom. Ran Induction-Elec. Log from 4911 to 4978 ft., not able to reach bottom. Perforated w/4 shots per foot from 4896 to 4906 ft. and from 4916 to 4952 ft. Ran 2" EUE tbg. to 4956 w/pkr. set at 4880-82 ft. and swabbed dry. Well making no gas natural. Unseated packer and washed perforations with 19 barrels Dowell "BDA" acid and broke down formation w/5 barrels of same. Flushed with 20 bbls. fresh water, set packer and swabbed back acid water and flush water, cut w/5 to 10% oil. Well kicked off and flowed gas at a moderate rate, est. GV 500+MCF/D with packer set, pressured up on top side of pkr. with 2000 psig. Treated perforation with 5000 gallons Dowell reg. acid at avg. treating pressure of 2800 psig. and avg. injection rate of 4 bbls/minute. Flushed with 20 bbls. fresh water. Swabbed 50 bbls. and flowed gas and acid water cut w/10-15% oil. Flowed well in 18/64" choke for a 115 hour continuous flow test. During last 48 hour period, well flowed a GV of 1,172, GCFD (on 18/64" ck) and 13.4 BF, being 75% oil and 25% acid water and salt water. OII Gty 39.0. Unseated packer, dumping fluid in annulus down on to formation/Gelid. Load water to recover: 89.34 bbls. Ran swab into hole. On 1 1/4" swab, well kicked off and flowed by heads, fresh water and acid water cut w/oil and gas. Flowed well for 4 hours through 3 1/4" ck., recovering 53 bbls. of fluid. Flowed well for one hour through 32/64 ck., recovering 21 bbls. fluid. Flowed well for 6 hours through 26/64 ck., recovering 16 bbls. fluid. Total fluid recovered 100 bbls. Set choke on 18/64 and flowed well for 24 hours for cleaning up. FTP 600 psig. Well made 16 BF, being 75% oil (Gty 32) and 25% ZW. Well shut-in. Well completed on 28/60 for Shut-in gas well. Calculated absolute open flow base on one point 48 hour back pressure test and slope of one, is 1,555,000 CFPD (Gas gty 0.8).