



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office **Santa Fe**
Lease No. **001101**
Unit **None**

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....	SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....	X
NOTICE OF INTENTION TO ABANDON WELL.....		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

July 8, 1957

Gov't Charter
Well No. **1** is located **790** ft. from **[S]** line and **790** ft. from **[W]** line of sec. **4**
SW 1/4 Sec 4 (1/4 Sec. and Sec. No.) **30N** (Twp.) **12W** (Range) **104N** (Meridian)
Undesignated (Field) **San Juan** (County or Subdivision) **New Mexico** (State or Territory)

The elevation of the ~~drilling floor~~ **5071.3** **Ground Level** above sea level is **5281** ft. **Kelly Bushing**

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Spudded well at 12:15 PM 5-30-57; drilled 12-3/4" hole to 235'KB. Deviation 1/2" at 235'. Ran 213.6' 2-5/8" OD 21.27 seamless casing set at 235'KB, cemented with 175 sacks plus 2% calcium chloride; good returns; cement circulated to surface; job completed at 11 PM. WOC 16 hours, nipples up BOP; tested casing and BOP with 6000 for 30 minutes, held ok. Started drilling cement plug at 194'KB with 8-3/4" bit after total WOC time of 24 hours. Cement drilled hard. An 8-3/4" hole was drilled from 235'KB to 4920'. The intervals from 4920 - 4964 1/2' and 5035-5067' were cased. The cased intervals were reamed to 8-3/4" and 8-3/4" hole was carried to total depth of 5137'KB. DST #1: 4914 1/2-4964 1/2'; tool open 122 minutes, shut in 30 minutes. Good initial blow remaining throughout the test. Gas to surface in 122 minutes. Recovered 210' very heavily gas-out and medium oil-out drilling mud. (cont.)

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company **The Frontier Refining Company**Address **4940 East Louisiana Avenue****Denver 22, Colorado**

By **E. B. Granville**
E. B. Granville
Title **Drilling & Production Dept.**

**Supplementary Well History
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IFP - 140; FFP - 340; SIP - 640. DST #2: 5037-5121'; tool open 60 minutes, shut in 30 minutes; good blow decreasing to weak at end of test. Recovered 600' of gas in pipe and 15' slightly gas-cut drilling mud. IFP - 60; FFP - 70; SIP - 140; ran 5 1/2" casing set at 5126'KB and cemented with 100 sacks 50% Pennix plus 4% gal and 1/4# per sack Floccole; good returns except 2 1/2 minutes lost returns near end of job. Temperature Survey indicated top of cement 4592'GL. McCullough Gamma Ray Log was run and casing perforated with 4 jets per foot from 5063-5018' and 5010-4982' and 4982-4916' McCullough measurements. Swabbed and bailed 33 barrels of lead oil; hole dry. Well making very little gas. Acidized with 500 gallons HCl; displaced with 118 barrels crude oil. Pressure broke from 1700 to 1000 PSI; final pressure 0. Treated all perforations with sand-oil frac using 20 gallons freflo; 68,000 crude oil, 100,000# 20-40 sand; 303 balls in 14 stages; flushed with 140 barrels crude. Pressures 2500 maximum, 2250 minimum; average rate 80 barrels per minute. Swabbed and flowed lead oil through casing. Ran 2" NUE tubing set at 5097'KB. Gas volume estimated 3,600,000 CFSD Pitot tube measurement. Well shut in waiting on market for gas; approximately 950 barrels of lead oil remaining to recover as of 6-30-57.

[illegible][illegible]