

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE\*  
(Other instructions re-  
verse side)

Form approved.  
Budget Bureau No. 42-R1424.  
5. LEASE DESIGNATION AND SERIAL NO.  
**NM-0383161**

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		7. UNIT AGREEMENT NAME	
2. NAME OF OPERATOR <b>OLEN F. FEATHERSTONE</b>		8. FARM OR LEASE NAME <b>Tenneco Federal</b>	
3. ADDRESS OF OPERATOR <b>236 PETROLEUM BUILDING, ROSWELL, NEW MEXICO 88201</b>		9. WELL NO. <b>1</b>	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface <b>1980' FNL and 1980' FWL Sec. 31, T 14S, R 35E, NMPM</b>		10. FIELD AND POOL, OR WILDCAT <b>No. Morton Perno-Penn.</b>	
11. SEC. T., R., M., OR BLK. AND SURVEY OR AREA <b>Sec. 31, T 14S, R 35E</b>		12. COUNTY OR PARISH <b>Lea</b>	
14. PERMIT NO.		18. STATE <b>New Mex.</b>	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) <b>4057' GR.</b>			

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input checked="" type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

2-26-68 Tripped tubing with RTTS packer to cement interval 10,458' to 10,472'.

2-27-68 Mixed 100 sxs cement with additives. At 3,800# were able to inject approximately 10 sxs cement into formation. Reversed balance out of tubing and well bore. Pressured up to 1,000# and shut-in.

2-28-68 Well on vacuum. Acidized with 500 gal. BDA, maximum pressure 2000#. Well went on vacuum immediately. Swabbed back water and acid water, then some oil began to show.

2-29-68 60# pressure on tubing - swabbed until noon and pulled sand line into.

3-1-68 Tripped tubing.

3-2-68 Recovered sand line and swabbed.

3-3-68 Tripped tubing.

3-4-68 Second squeeze attempt - packer set at 10,372'. Attempting to squeeze interval from 10,460' to 10,472'. Mixed 75 sxs cement with CFR-2 additive. Maximum pressure 6,000#. Approximately 5 barrels cement pumped into formation. Reversed all cement out of tubing and well bore. Left approximately 1000# pressure on tubing over night.

3-5-68 Second treatment on workover. Spotted 500 gal. BDA acid. Set packer and injected acid into formation. Maximum pressure 2,300# - injection rate 4.5 barrels per minute. Began swabbing back at 10:00 a.m. Swabbing water with approximately 5/10% oil all afternoon.

3-6-68 Third squeeze attempt - 100 sxs cement with recommended additives and spearheaded job with 500 gal. Super X acid. Maximum pressure for cement 4,600#. Formation stopped taking cement after injecting approximately 65 sxs. Reversed out balance of cement in tubing and left cement in 5-1/2" to be drilled out. Finished drilling out by March 11 and on March 12 tripped tubing with RTTS packer in preparation of acidizing.

3-13-68 Spotted 500 gal. BDA acid. Reperforated 5 shots .31" Hyper-Jet at 10,459' to 10,462'. Injected acid at low pressure and well went on vacuum immediately after acid injected. Began swabbing at 2:00 p.m. Fluid standing 200' from surface. Well trying to flow.

3-14-68 Swabbed all day. Well flowing occasionally.

3-15-68 Swabbing 5.5 barrels oil and 13 barrels water per hour.

3-16-68 Well flowing.

3-17-68 Well flowing. Died during night. Well would not flow.

4-9-68 Ran Tracer Survey which indicated communication between top interval from 10,460' to 10,470' and middle interval from 10,490' to 10,512'.

4-17-68 Tripped tubing with RTTS packer.

4-18-68 Attempt to cement top zone. Spearheading cement job with 500 gallons mud acid. Approximately 60 sxs cement were injected into the formation at 6,000# pressure.

4-19-68 Perforated middle zone from 10,506' to 10,511'. Injected 500 gallons mud acid - 4,800# pressure.

4-20-68 Swabbing water - some oil. Set packer between two zones. Swabbed middle zone down indicating no communication between zones.

4-21-68 Reperforated middle zone from 10,506' to 10,510'. Injected 500 gal. acid. 4300# pressure. Reset packer above both zones. Injected 500 gal. acid followed by 50 sxs cement, at maximum pressure 5,500#.

4-22-68 Spotted 500 gallons acid - injected acid 3,000#. Well immediately went on vacuum.

4-23-68 Tripped tubing.

4-24-68 Swabbing water, some oil.

4-25-68 Swabbing. Small amount gas and scum of oil. Balance fluid water.

4-26-68 Still swabbing.

4-27-68 Set packer between zones and pumped water into top zone through annulus. Swabbed middle zone down indicating no communication. Began to trip tubing.

4-29-68 Set packer above top zone. Attempt squeeze 100 sxs cement, approximately 65 sxs at 6,000# maximum pressure injected into formation. Reversed out balance of cement. Reset packer above zone and pressured up to 1,000# for shut in.

4-30-68 Spot 500 gal. acid over top perforations. Pressured up 2,000# - held for 18 minutes. Reperforate 10,458' to 10,462' (top zone). Pressured up 2,500# acid going into formation. Injected all acid and well immediately went on vacuum. Began to swab in late afternoon.

5-1-68 150# on tubing - began swabbing - fluid level standing at approximately 2,200' to 2,300'. Swabbing approximately 10% oil - decided to install hydraulic pumping equipment.

5-13-68 Ordered equipment.

5-20-68 Equipment installed and circulating. Start pumping at approximately 5:00 p.m.

5-19-68 Production 3.5 BOPH.

5-20-68 Production 5.5 BOPH.

5-21-68 Production 96 BOPD - oil production increasing.

## Instructions

**General:** This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 12:** Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

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