

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.)

<p>1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/></p> <p>2. NAME OF OPERATOR Exxon Corporation Attn: David A. Murray</p> <p>3. ADDRESS OF OPERATOR P. O. Box 1600, Midland, TX 79702</p> <p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 660' FSL and 1980' FWL of Sec. 19</p> <p>14. PERMIT NO. _____ 15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4421 KB</p>	<p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME _____</p> <p>7. UNIT AGREEMENT NAME _____</p> <p>8. FARM OR LEASE NAME Smith Federal</p> <p>9. WELL NO. 2</p> <p>10. FIELD AND POOL, OR WILDCAT Tomahawk - San Andres</p> <p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 19, T-37-S, R-32-E</p> <p>12. COUNTY OR PARISH: 13. STATE Roosevelt NM</p>
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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 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 checked="" type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) _____	(Other) _____

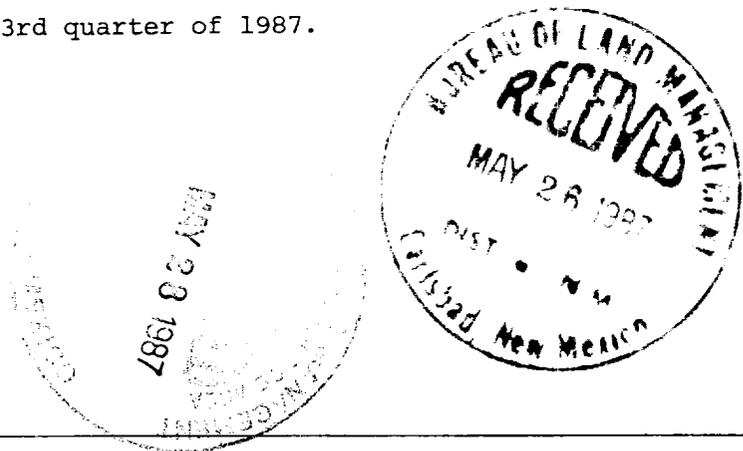
(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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.)*

REVISED PLUGGING PROCEDURE

*The highlighted items are the items that have changed since the original Sundry Notice dated 4-30-87 was submitted.

Estimated work should be done in 3rd quarter of 1987.



18. I hereby certify that the foregoing is true and correct

SIGNED David A. Murray TITLE Permits Supervisor DATE 5-21-87
(This space for Federal or State office use)

APPROVED BY _____ TITLE _____
CONDITIONS OF APPROVAL, IF ANY:

APPROVED
PETER W. CHESTER
JUL 2 1987
BUREAU OF LAND MANAGEMENT
ROSWELL RESOURCE AREA

*See Instructions on Reverse Side

PLUG AND ABANDON PROCEDURE

WELL: Smith Federal No. 2

OBJECTIVE: Plug and Abandon

BACKGROUND: The Smith Federal #1 was drilled and completed in 1980 for 0 BOPD and 128 BWPD. Currently the well is TA'd.

Formation psi: 1500	Prod. Csg.: 5-1/2"
W.O. Fluid: 9.5 ppg brine mud	Min. drift: 4.887" (14#)
Max anticipated SITP: <1000 psi	Max burst (w/1.1 SF):
BOP class: III	H ₂ S = 6000 ppm (estimate)
BOP variances apply:	BOP service: sour
	High risk H ₂ S equip req: no

PROCEDURE:

NOTE: Notify the BLM at 505-624-1790 before rigging up so that arrangements made be made for the BLM to witness the setting of plugs. Use class "C" cement with 3% gel (weight: 14.8 ppg, yield: 1.32 cfps, water required: 6.3 gps). Hole should be loaded with 9.5 ppg mud containing 5 sxs salt gel/100 bbls brine water.

PROCEDURE:

1. MIRU. Check tubing pressure - bleed off as necessary. POH and LD rods and pump. Install BOP's. Circulate hole with mud laden fluid. Pressure test plug and casing to 500 psi for 15 minutes. TOH.
2. Open wellhead casing valve on 5-1/2" casing or bullplug to inspect for cement. Estimated TOC is at surface.
3. If no cement is detected, RU perforators with full lubricator. Perforate 5-1/2" casing at 1750' with 4 SPF using a 4" retrievable casing gun.
4. TIH with open-ended tubing to 1600'. Try to establish circulation across perfs and up casing-casing annulus by pumping down tubing. (Close BOP around tubing at surface.) Do not exceed 2000 psi surface pressure. If sufficient circulation rate is established, pump enough volume to circulate cement to surface in the 5-1/2" x 8-5/8" annulus and enough volume to set a 100 ft. cement plug from 1750' to 1650'.

Calculated Volumes:

5-1/2" x 8-5/8" Annulus plus 20% sx	325 sx
100' cmt plug in 5-1/2" casing	<u>15 sx</u>
Total Sacks	<u>340 sx</u>

5. If circulation cannot be established across the perfs, TIH with open-ended tubing to 1750' and spot a 100' cement plug from 1750' to 1650'. This plug should cover 50' above and below surface casing shoe.

6. POH w/tubing to 850'. If cement was circulated behind 5-1/2" casing in step 7, spot a 20 sack cement plug using Class "C" cement from 850' to 750'.
7. If cement was not circulated behind 5-1/2" casing in step 6, RU perforators with full lubricator. Perforate 5-1/2" casing at 850' with 4 SPF using a 4" retrievable casing gun.
8. TIH with open-ended tubing to 700'. Try to establish circulation across perfs and up casing-casing annulus by pumping down tubing. (Close BOP around tubing at surface.) Do not exceed 2000 psi surface pressure. If sufficient circulation rate is established, pump enough volume to circulate cement to surface in the 5-1/2" x 8-5/8" annulus and enough volume to set a 100 ft. cement plug from 850' to 750'.

Calculated Volumes:

5-1/2" x 8-5/8" Annulus plus 20% excess	150 sx
100' cmt plug in 5-1/2" casing	<u>20 sx</u>
Total Sacks	<u>170 sx</u>

9. If circulation cannot be established across the perfs, TIH with open-ended tubing to 850' and spot a 100' cement plug from 850' to 750'. This plug should cover 50' above and below the base of the fresh water zones.
10. POH w/tubing to 240'. Spot a 25 sack cement plug using Class "C" cement from 100' to surface. POH and lay down tubing.
11. Cut off wellhead. Install abandoned well sign. Clean location. RDMO.

P. J. Cooper
Division Operations Superintendent

ENGR RMB SUPV BBB
5/4/87 5/6