

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TR CATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

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 Santa Fe Energy Operating Partners, L.P.	8. FARM OR LEASE NAME Rich Unit
3. ADDRESS OF OPERATOR 500 W. Illinois, Suite 500, Midland, TX 79701	9. WELL NO. 1
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1980' FSL & 560' FWL	10. FIELD AND POOL, OR WILDCAT West Sawyer (San Andres)
14. PERMIT NO.	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 34, 9S, 37E
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 3986' Casinghead	12. COUNTY OR PARISH Lea
	13. STATE NM

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐

PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
ABANDON* ☐
CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐
FRACTURE TREATMENT ☐
SHOOTING OR ACIDIZING ☐
(Other) ☐

REPAIRING WELL ☐
ALTERING CASING ☐
ABANDONMENT* ☐

(Other) Disposal method of produced water

(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.)*

1. This well produces San Andres formation water with its oil production.
2. Water production is about 78 BWPD.
3. Attached is a water analysis.
4. Water is separated in a heater treater on the lease and stored in a 238 BBL fiberglass oil skim tank located at the Santa Fe Energy Operating Partners, L.P. SFPRR 33 Battery located at SW/4 NE/4 Sec. 33, T-9S, R-37E, Lea County, NM.
5. The water is pumped through a flowline to the SFPRR No. 15 SWD well located at B, Sec. 34, T-9S, R-37E. This is a Santa Fe Energy Operating Partners, L.P. owned facility and is NMOCD approved. SFPRR No. 15 SWD replaced SFPRR No. 6 SWD in December 1985. SFPRR No. 6 SWD was a BLM approved disposal facility.

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

SIGNED Patricia Jay Shaw

TITLE Sr. Production Engineer

DATE 6-21-88

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

*See Instructions on Reverse Side

SCALE PROGRAM FOR 1 WATER

SANTA FE ENGERGY
 RICH UNIT #1
 SAN ANDRES FORM. SLM5.DATA
 LEA CO.,N.MEX. W88-060 6-14-88

ION	CONC. (MG/L)		
SODIUM	68391.		
CALCIUM	11465.		
MAGNESIUM	2453.		
IRON	2.	PH	6.30
CHLORIDE	131810.	SPECIFIC GRAVITY	1.1400
BICARBONATE	571.	RESISTIVITY	0.26
CARBONATE	0.	IONIC STRENGTH	4.1485
SULFATE	1085.	TDS	215777.

TYPE OF SCALE	SOLUBILITY (PTB)	SCALE INDEX	SCALE (PTB)	SCALING TENDENCY
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TEMPERATURE(F)= 70.0

CALCIUM SULFATE	597.	0.06	84.	SLIGHT
CALCIUM CARBONATE	*** UPPER IONIC STRENGTH LIMIT IS 4.0 ***			

TEMPERATURE(F)= 85.0

CALCIUM SULFATE	596.	0.06	85.	SLIGHT
CALCIUM CARBONATE	*** UPPER IONIC STRENGTH LIMIT IS 4.0 ***			

TEMPERATURE(F)= 100.0

CALCIUM SULFATE	597.	0.06	84.	SLIGHT
CALCIUM CARBONATE	*** UPPER IONIC STRENGTH LIMIT IS 4.0 ***			

TEMPERATURE(F)= 115.0

CALCIUM SULFATE	604.	0.05	77.	SLIGHT
CALCIUM CARBONATE	*** UPPER IONIC STRENGTH LIMIT IS 4.0 ***			

NOTE: PTB = POUNDS PER THOUSAND BARRELS