

Navajo Table Mesa #2
27-28-17

Sunray DX Oil Company



P. O. Box 1416
Roswell, New Mexico
November 2, 1967



New Mexico Oil Conservation Commission
P. O. Box 2038
Santa Fe, New Mexico

RE: Application to Dispose of Salt Water
Navajo Table Mesa Lease
San Juan County, New Mexico

Gentlemen:

Sunray DX Oil Company hereby notifies the Oil Conservation Commission of Sunray's desire to dispose of produced salt water from its Navajo Table Mesa Lease, San Juan County.

We propose to dispose of such water by injection into the Navajo Table Mesa No. 2. This well is currently producing from the Table Mesa Formation. A dual completion is planned with disposal being down the annular space between the intermediate and producing casing strings.

All information necessary to this application is attached. In accordance with Rule 701, Sunray respectfully requests that this matter be scheduled for hearing before the Commission, as soon as possible.

Copies of this letter, with attachments, have been sent to the State Engineer Office in Santa Fe, the Oil Conservation Commission Office in Aztec, and the USGS Office in Farmington, as evidenced by the attached postal receipts.

Yours truly,

SUNRAY DX OIL COMPANY

John Hastings
John Hastings
District Engineer

JH/RLM/nsh

Attachments

cc: State Engineer Office, Santa Fe
NMOCC, Aztec ✓
USGS, Farmington



• *Journal of the American Medical Association*, 2000; 284: 1039-1044

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PROPOSED SWD WELL

SUNRAY DX NAVAJO TABLE MESA NO. 2

790' FSL & 1980' FEL of Section 27, T-28-N, R-17-W
San Juan County, New Mexico

DISPOSAL ZONE: Organ Rock

ZONE DEPTH: 5505' - 5525'

INJECTION FLUID: Salt water produced from Navajo Table Mesa
Lease, Table Mesa - Penn C.

ANTICIPATED VOLUMES: 1400 BWPD

INJECTION METHOD: Dual completion with water being disposed of
down the annulus between the 5-1/2" production
string and 9-5/8" casing and 7-5/8" liner.
Water will be pumped down annulus by pump,
which will be sized to handle approximately
1500 BWPD at a maximum pressure of 1000 PSIG.
See workover program and well sketch method
of completion. See log for injection zone.



☐ WORKOVER PROGRAM

WELL	STATE	DATE
Navajo Table Mesa #2	New Mexico	October 31, 1967
FIELD	OBJECTIVE	ELEVATION
Table Mesa - Penn C	Dual Complete For SWD	5363 K. B.

790' FSL & 1980' FEL of Section 27, T-28-N, R-17-W, San Juan County, New Mexico

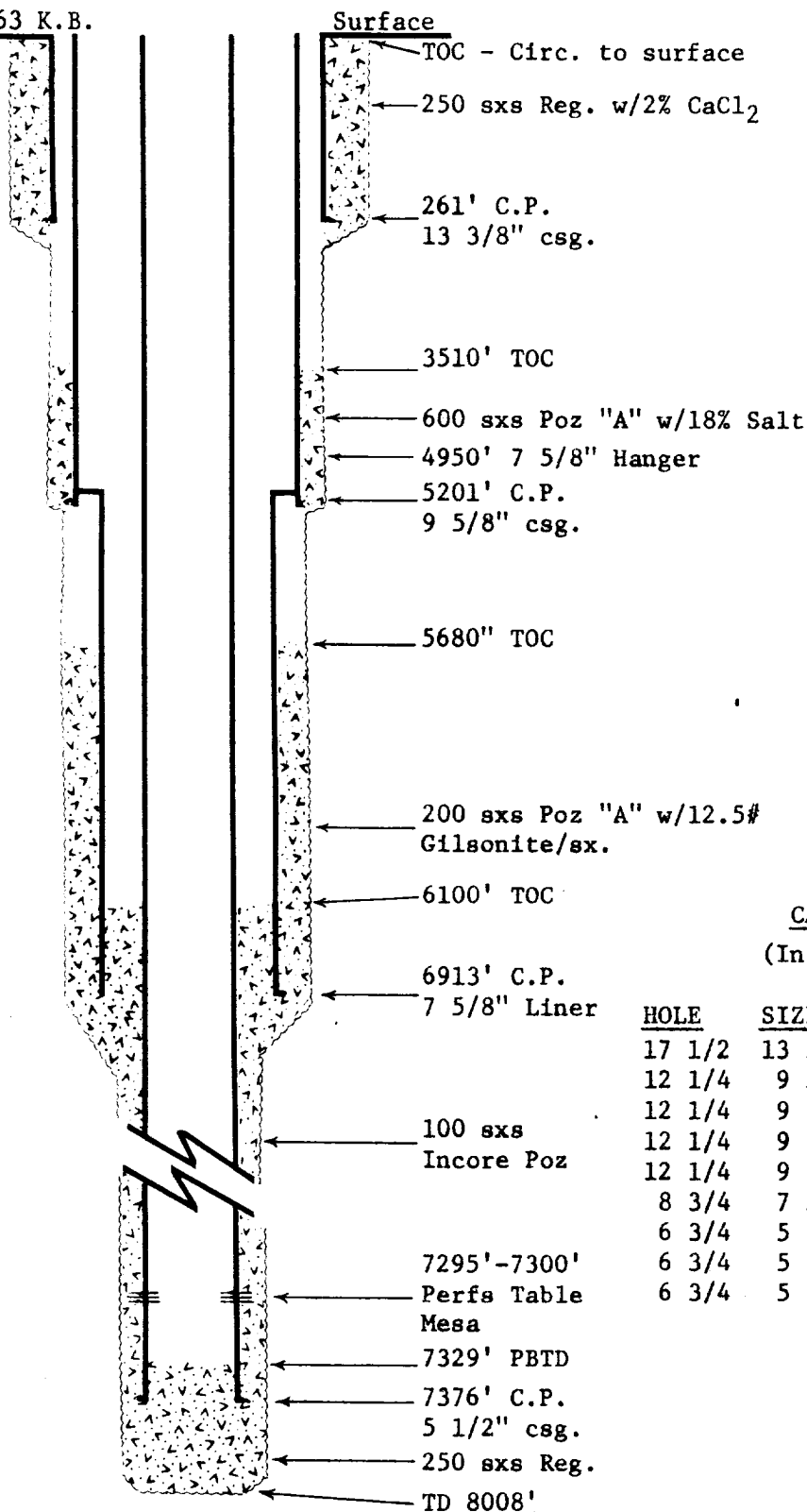
PROPOSED WORK	CASING DESIGN
<ol style="list-style-type: none"> 1. MI & RU rotary workover rig. 2. Pull pump and tubing. 3. Set wire line 5 1/2" BP @ approx. 6300'. 4. Tie onto 5 1/2" csg & work. If stretch point isn't deep enough, run free point by dialog. 5. Cut csg w/mechanical cutter on tubing @ approx. 6000' if feasible, and pull csg. 6. Run Lane Wells PFC Log from 5650' to 5400' and from 1900' to 1700'. 7. Perforate 4-1/2" holes @ 1800'in 9 5/8". Set cmt retainer @ approx. 1750'. Cmt w/260 sxs incore poz cmt w/12% gel and 2# Gilsonite per sx. Tail in w/100 sxs neat cmt w/2# Gilsonite per sx. Cement requirements are based on 85% fill to circulate cmt to surface and cover Dakota Zone. If cmt doesn't circulate, run temp. survey. WOC 18 hrs. 8. Drill retainer and pressure test to 1000# for 30 min. 9. Perforate 1-1/2" hole/foot in 7 5/8" from 5525' to 5505'. 10. Run tubing and 9 5/8" ret. pkr and set @ approx. 4900'. Use tailpipe to approx. 5550'. Load backside to 1000 PSIG. 11. Acidize w/500 gallons mud acid. Spot acid and pump in. Do not exceed 6000 PSIG. 12. Pump into formation to establish injection rates and pressures. Attempt to establish inj. rate of 2 BPM @ 1000 PSIG or less. If not feasible, additional acidizing will be necessary. 13. If rates are suitable, pull tubing and pkr. 14. Run in and dress off top of 5 1/2 csg. 15. Run 5 1/2" csg w/Bowen Midas csg. bowl. . Join csg w/csg bowl. 16. Run pump. Put well on production. 17. Install lines, tank and pump. Connect to 9 5/8" casinghead and commence injection. 	<p>13 3/8", H-40, 48# @ 265' 9 5/8", J-55, 36# and N-80, 40# @ 5201' 7 5/8", X-Line, 26.40# liner @ 6913'. Top 4951'. 5 1/2", J-55, 15.5# & 17.0# and N-80, 17# @ 7376.</p> <p>See Well Sketch Attached.</p>
	MUD PROGRAM AND REMARKS
SUBMITTED BY	ALL INSTRUCTIONS TO DRILLING CREWS MUST BE DIRECTED THROUGH C. T. McClanahan APPROVED BY
R. L. Maness	

NAVAJO TABLE MESA NO. 2

790' FSL & 1980' FEL of Section 27, T-28-N, R-17-W

San Juan County, New Mexico

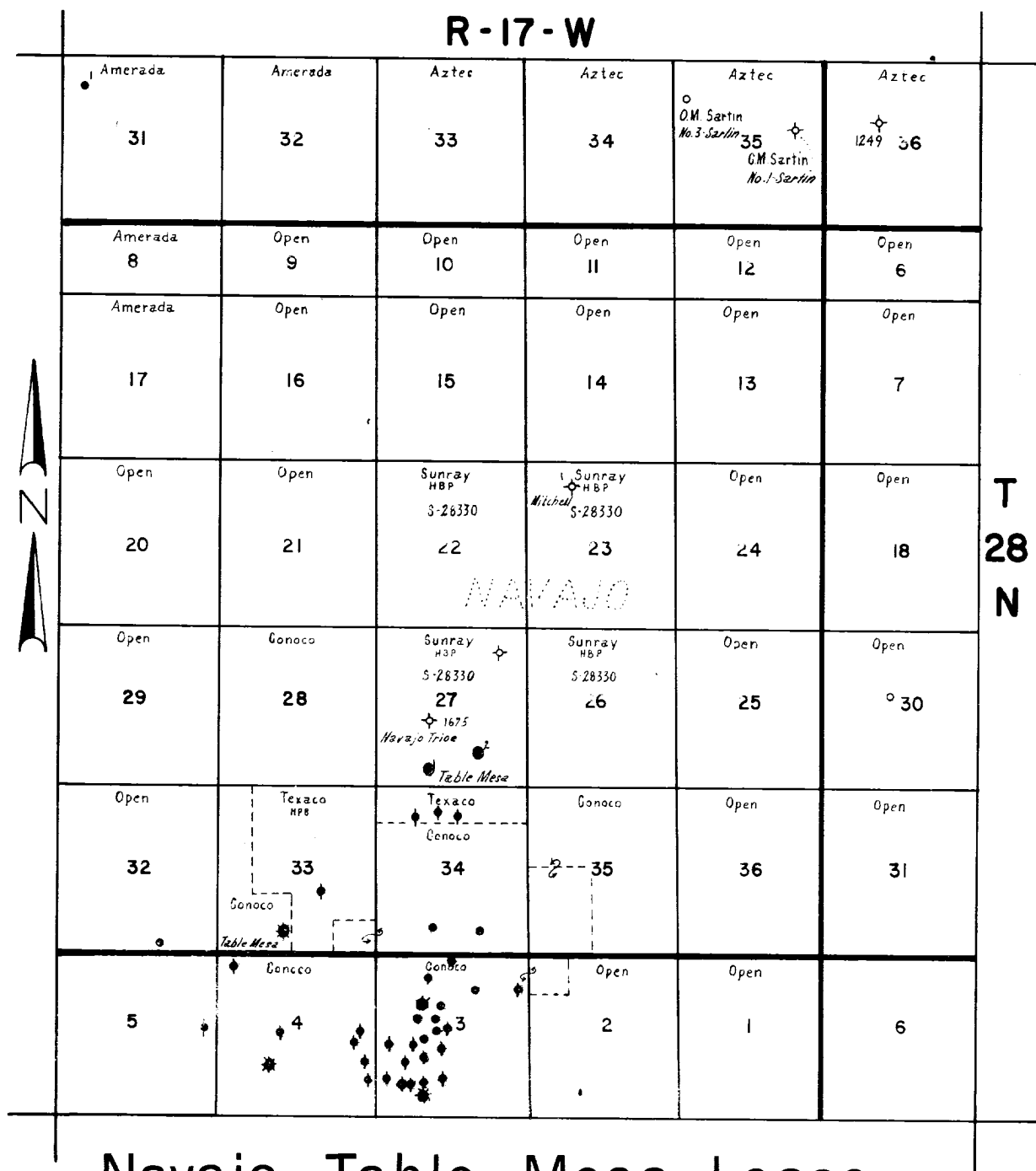
Elev. 5363 K.B.



CASING DESCRIPTION

(In Order as in Hole)

<u>HOLE</u>	<u>SIZE</u>	<u>FOOTAGE</u>	<u>WEIGHT</u>	<u>GRADE</u>
17 1/2	13 3/8	265	40.0#	H-40
12 1/4	9 5/8	33	40.0#	J-55
12 1/4	9 5/8	3466	36.0#	J-55
12 1/4	9 5/8	1013	40.0#	J-55
12 1/4	9 5/8	689	40.0#	N-80
8 3/4	7 5/8	1960	26.4#	X-Line
6 3/4	5 1/2	5340	15.5#	J-55
6 3/4	5 1/2	1315	17.0#	J-55
6 3/4	5 1/2	721	17.0#	N-80



- Pennsylvanian
- Dakota
- Mississippian

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

Form approved.
Budget Bureau No. 42-R1424.

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"/>		5. LEASE DESIGNATION AND SERIAL NO. 11-20-603-1043	
2. NAME OF OPERATOR Sunray DX Oil Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo Tribal Council	
3. ADDRESS OF OPERATOR P. O. Box 1416, Roswell, New Mexico		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 790' FSL & 1980' FEL, Sec. 27-T28N-R17W		8. FARM OR LEASE NAME Navajo Table Mesa	
14. PERMIT NO.		9. WELL NO. 2	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) Furnish Later		10. FIELD AND POOL, OR WILDCAT Wildcat	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 27-T28N-R17W	
		12. COUNTY OR PARISH San Juan	13. STATE New Mexico

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

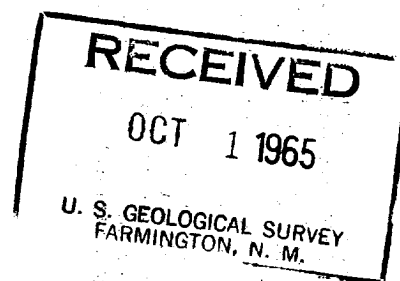
SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) Commence drlg & csg test	

(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.)*

- Spud 12 1/4" hole at 11:30 A.M. 9-27-65. Drill to 265'. Ream hole to 17 1/2".
- Ran 9 jts 13 3/8", 48#, csg to csg pt 250'.
- Cmt w/250 sx reg cmt, 2% CaCl₂. Cmt circulated. Pressure test csg to 1000 psig 30 min - OK.
- Now drlg ahead.



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

SIGNED B.F. Brawley TITLE District Engineer DATE 9-29-65

(This space for Federal or State office use)

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