

submitted in lieu of Form 3160-5

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells

1. Type of Well
GAS

2. Name of Operator
MERIDIAN OIL

3. Address & Phone No. of Operator
PO Box 4289, Farmington, NM 87499 (505) 326-9700

4. Location of Well, Footage, Sec., T, R, M
935' FSL, 890' FEL, Sec.21, T-30-N, R-10-W, NMPM

5. Lease Number
SF-078204
6. If Indian, All. or
Tribe Name
7. Unit Agreement Name
8. Well Name & Number
Sunray D #2A
9. API Well No.
30-045-23831
10. Field and Pool
Aztec Pictured Cliffs/
Blanco Mesaverde
11. County and State
San Juan Co, NM

12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA

Type of Submission

Type of Action

<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other - Mesaverde pay add	

13. Describe Proposed or Completed Operations

It is intended to add pay the producing Mesaverde formation of the subject well according to the attached procedure and wellbore diagram.

RECEIVED
DEC 12 1995
OIL CON. DIV.
DIST. 3

070 FARMINGTON, NM

50750-5 PM12:16

RECEIVED
BUREAU OF LAND MANAGEMENT
DEC 14 1995

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

Signed [Signature] (MEL5) Title Regulatory Administrator Date 12/4/95

(This space for Federal or State Office use)

APPROVED BY _____ Title _____

CONDITION OF APPROVAL, if any:

Date

APPROVED

DEC 06 1995

DISTRICT MANAGER

NMOCD

Pertinent Data Sheet - Sunray D #2A

Location: SE/4 935' FSL, 890' FEL, Unit P, Section 21, T30N, R10W.
Lat. 36.793030, Long. 107.883347 by TDG
San Juan County, New

Field: Blanco Mesaverde, Aztec Pictured Cliffs **Elevation:** 6271' GL
KB: 11'

TD: 5582'
PBTD: 5565'

Completed: 03-18-81

Spud Date: 2-19-80

DP No: 53618A/53618B

Prop. No: 012600400

Fed. No: SF 078204

Casing/Liner Record:

<u>Hole Size</u>	<u>Csg Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>Top/Cement</u>
13 3/4"	9 5/8"	36# K-55	231'	224 cu. ft.	to surface
8 3/4"	7"	20# K-55	3162'	358 cu. ft.	1700' (TS)
6 1/4"	4 1/2"	10.5# K-55	3050'-5582'	444 cu. ft.	Liner Top

Tubing Record: 2 3/8" 4.7 # J-55 MV tubing set at 5468'. Seating Nipple @ 5438'. Baker Model G-22 seal assembly set @ 3053' in a PBR. 1 1/4" 2.4# J-55 PC tubing set at 2933'. Seating Nipple @ 2903'.

Formation Tops:

Ojo Alamo:	1525'	Mesaverde:	4358
Kirtland:	1650'	Menefee:	4614'
Fruitland:	2430'	Point Lookout:	5098'
Pictured Cliffs:	2840'		

Logging Record: ISF-IGR, FDC, Temp. Survey

Stimulation: Sand water fractured Lower Point Lookout 5259'-5500' with 100,000 gallons of water and 48,888# of sand.

Sand water fractured Massive Point Lookout 5102'-5255' with 54,390 gallons of water and 27,846# of sand.

Sand water fractured Pictured Cliffs 2842'-2942' with 76,986 gallons of water and 71,988# of sand.

Workover History:

None

SUNRAY D #2A

AS OF 7/19/95

BLANCO MESAVERDE/AZTEC PICTURED CLIFFS EXT.
UNIT P, SEC 21, T30N, R10W, SAN JUAN COUNTY, NM

COMPLETED 3/18/81

OJO ALAMO @ 1525'

KIRTLAND @ 1650'

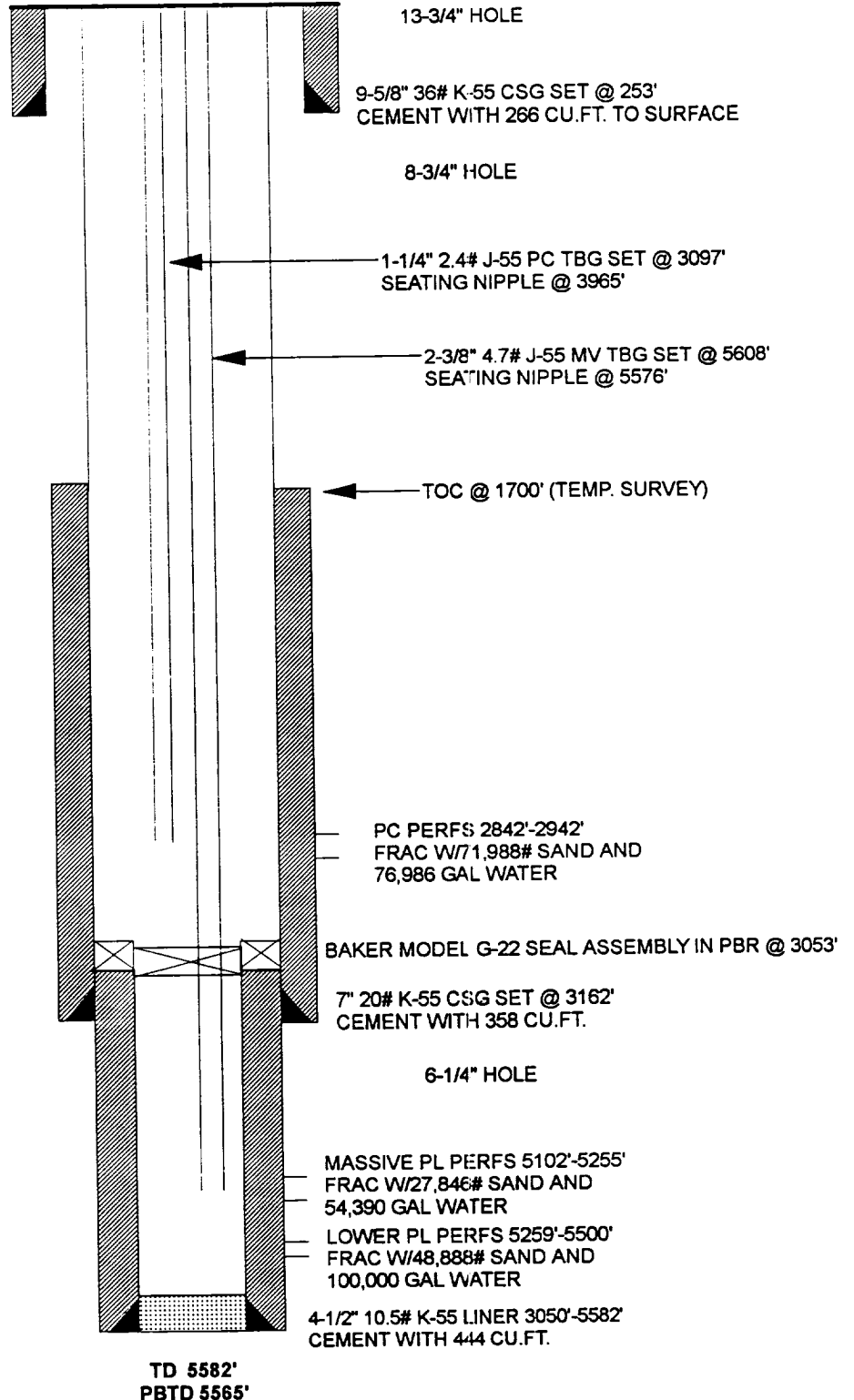
FRUITLAND @ 2430'

PICTURED CLIFFS @ 2840'

MESAVERDE @ 4358'

MENEFEE @ 4614'

POINT LOOKOUT @ 5098'



Sunray D #2A - Mesaverde
Cliffhouse and Menefee Payadd
Lat-Long by TDG: 36.793030 - 107.883347
SE/4 Section 21, T30N-R10W
August 31, 1995

1. Hold safety meeting. MIRU. Comply with all MOI, BLM and NMOCD rules and regulations. Install 13 frac tanks and 1x400 bbl rig tank. Fill each frac tank with 5#s of biocide and filtered (25 micron) 1% KCl water.
2. Obtain and record all wellhead pressures. ND WH, NU BOP. TOOH w/ 1-1/4" tubing set @ 2933'. TOOH w/ 2-3/8" tubing set at 5468'. Replace bad tubing as necessary.
3. PU 7" (20#) casing scraper, TIH and run casing scraper to 3050'. TOOH.
4. TIH with 2-3/8" tubing and 3-3/4" bit. CO to PBTD of 5565'. TOOH.
5. TIH w/ 4-1/2" CIBP and set CIBP @ 5075'. Load hole w/ 1% KCL water if possible. Spot Menefee interval ($\pm 5050'$ - $\pm 4670'$) w/ 260 gallons of inhibited 15% HCL acid. TOOH.
6. RU wireline and run CBL-GR-CCL from $\pm 5075'$ to TOC in 4-1/2" casing (run CBL to find TOC in liner). Run CNL from 5075' to 4200'. Send copy of logs to engineering and perforation intervals will be provided.
7. Perforate the Menefee interval ($\pm 5050'$ - $\pm 4670'$) top down using 3-1/8" HSC guns with 12 gram charges and 0.31" diameter holes. (Intervals will be provided after reviewing logs.) Inspect guns to ensure all perforations fired. RD wireline.
8. TIH w/ 4-1/2" fullbore packer, $\pm 200'$ of 2-3/8" tubing and 2-7/8" N-80 frac string. Set packer @ $\pm 5060'$. Load hole w/ water and pressure test casing and CIBP to 3800 psi. Release packer, PUH to $\pm 150'$ above top perforation and reset packer. Monitor the backside during balloff throughout the job.
9. **Maximum allowable treating pressure is 3800 psi during acid job.** Pump 1500 gallons of 15% HCL acid @ 8 Bbls/min dropping 7/8" diameter RCN ball sealers spaced evenly throughout the job (2 balls per perforation hole). Release packer, TIH and knock balls off. TOOH to $\pm 3100'$ and reset packer.
10. Hold safety meeting. Monitor the backside during stimulation. **Maximum allowable surface treating pressure is 6000 psi @ 25 Bbls/min.** If rate is reduced, the maximum pressure will be lower. (See stimulation schedule for maximum pressures for various rates.)
11. Pressure test surface lines to 7000 psi. (1000 psi over maximum treating pressure but less than the working pressure of the lines.) Fracture stimulate the Menefee interval @ 30 BPM using 30# linear gel and 80m lbs of sand tagged w/ Iridium. (Final stimulation procedure will be attached after reviewing logs.) Do not over displace during flush. Shut in well immediately after completion of the stimulation until pressure falls to zero.
12. Release packer and TOOH standing back frac string. Check and inspect packer. RU wireline and set a 4-1/2" RBP @ $\pm 4660'$. Dump sand on top of RBP w/ dump bailer.
13. Perforate Cliffhouse interval ($\pm 4640'$ - $\pm 4300'$) top down using 3-1/8" HSC guns with 12 gram charges and 0.31" diameter holes. (Perforation interval will be provided after reviewing logs.) Inspect guns to ensure all perforations fired. RD wireline.

Sunray D #2A
Mesaverde Payadd
August 31, 1995

14. TIH w/ 4-1/2" fullbore packer, \pm 200' of 2-3/8" tubing and 2-7/8" N-80 frac string. Set packer @ \pm 4650'. Load hole w/ water and pressure test RBP to 3800 psi. Release packer. PUH to \pm 150' above top perforation and reset packer. Monitor the backside during balloff throughout the job.
15. **Maximum allowable treating pressure is 3800 psi during acid job.** Pump 1500 gallons of 15% HCL acid @ 8 Bbls/min dropping 7/8" diameter RCN ball sealers spaced evenly throughout the job (2 balls per perforation hole). Release packer, TIH and knock balls off. TOOH to 3100' and reset packer.
16. Hold safety meeting. Monitor the backside during stimulation. **Maximum allowable surface treating pressure is 6000 psi @ 25 Bbls/min.** If rate is reduced, the maximum pressure will be lower. (See stimulation schedule for maximum pressures for various rates.)
17. Pressure test surface lines to 7000 psi. (1000 psi over maximum treating pressure but less than the working pressure of the lines.) Fracture stimulate the Cliffhouse interval @ 30 BPM using 30# linear gel and 105m lbs of sand tagged w/ Iridium. (Final stimulation procedure will be attached after reviewing logs.) Do not over displace during flush. Shut in well immediately after completion of the stimulation until pressure falls to zero.
18. Release packer and TOOH laying down frac string.
19. TIH w/ retrieving head and CO to RBP @ \pm 4660' until sand production is minimal. Obtain pitot gauge for Cliffhouse interval. Release RBP @ 4660' and TOOH.
20. TIH w/ 3-3/4" bit and drill up CIBP set @ 5075'. CO to PBTD (5565'). PU above the Mesaverde perforations and flow the well naturally, making short trips for clean up when necessary. Obtain pitot gauge for Mesaverde after clean up.
21. When sand has diminished, TOOH.
22. RU wireline company. Run After Frac GR from 5100' to top of tracer activity.
23. TIH with one joint of 2-3/8", 4.7#, J-55 tubing w/ expendable check, an F-nipple, then approximately 2420' of tubing, model G locator seal assembly and then the remaining 2-3/8" production tubing. Land tubing near bottom perforation (5500').
24. TIH w/ on joint of 1-1/4" tubing w/ expendable check, an F-nipple, then the remaining 1-1/4" tubing. Land tubing @ 2933'
25. ND BOP's, NU WH. Pump off expendable checks. Obtain final pitot. RD and MOL. Return well to production.