

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

1660' FNL, 1760' FWL, Sec.21, T-30-N, R-10-W, NMPPM

5. Lease Number

SF-078204

6. If Indian, All. or

Tribe Name

7. Unit Agreement Name

8. Well Name & Number

Sunray D #1A

9. API Well No.

30-045-24139

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

☒ Notice of Intent

☐ Abandonment

☐ Change of Plans

☐ Subsequent Report

☐ Recompletion

☐ New Construction

☐ Final Abandonment

☐ Plugging Back

☐ Non-Routine Fracturing

☐ Casing Repair

☐ Water Shut off

☐ Altering Casing

☐ Conversion to Injection

☒ 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 COLL. DIV.
DIST. 3

010 FARMINGTON, NM
JAN 5 1996 PM 12:16

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 _____ Date _____

CONDITION OF APPROVAL, if any:

APPROVED

DEC 06 1995

DISTRICT MANAGER

NMOCD

Pertinent Data Sheet -Sunray D #1A

Location: NW/4 1660' FNL, 1760' FWL. Unit P, Section 21, T30N, R10W,
Lat. 36.800720, Long. 107.892334 by TDG
San Juan County, New

Field: Blanco Mesaverde/Aztec Pictured Cliffs **Elevation:** 6426' GL
KB: 13'

TD: 5705'
PBTD: 5687'

Completed: 04-09-81

Spud Date: 02-08-80

DP No: 53617A/53617B

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	253'	266 cu. ft.	to surface
8 3/4"	7"	20# K-55	3331'	267 cu. ft.	2400' (TS)
6 1/4"	4 1/2" Liner	10.5# K-55	3170'-5705'	486 cu. ft.	Reversed out 0 bbls cmt

Squeezed line top twice with a total of 236 cu. ft. of cement.
Float Collar @ 5687'
Marking Joint @ 4587'

Tubing Record: 2 3/8" 4.7 # J-55 tubing set at 5562'. Seating Nipple @ 5528'. Baker Model G-22 seal
assembly set @ 3140'. 1 1/4" 2.4# J-55 PC tubing set at 3097'. Seating Nipple @ 3065'.
Production packer is a F1 model.

Formation Tops:

Ojo Alamo:	1662'	Mesaverde:	4536'
Kirtland:	1788'	Menefee:	4797'
Fruitland:	2659'	Point Lookout:	5282'
Pictured Cliffs:	3002'		

Logging Record: ISFL, FDC, IL-GR, Temp. Survey

Stimulation: Sand water fractured Lower Point Lookout 5266'-5624' with 80,530 gallons of water and
60,000# of sand. Refracted with 119,100 gallons of water and 60,000# of sand.

Sand water fractured Massive Point Lookout 5014'-5208' with 50,000 gallons of water and
25,000# of sand.

Sand water fractured Pictured Cliffs 3014'-3110' with 67,750 gallons of water and 60,000# of
sand.

Workover History:

None

SUNRAY D #1A

AS OF 7/19/95

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

COMPLETED 4/09/81
ELEVATION 6426' GL
KB 13'

OJO ALAMO @ 1662'

KIRTLAND @ 1788'

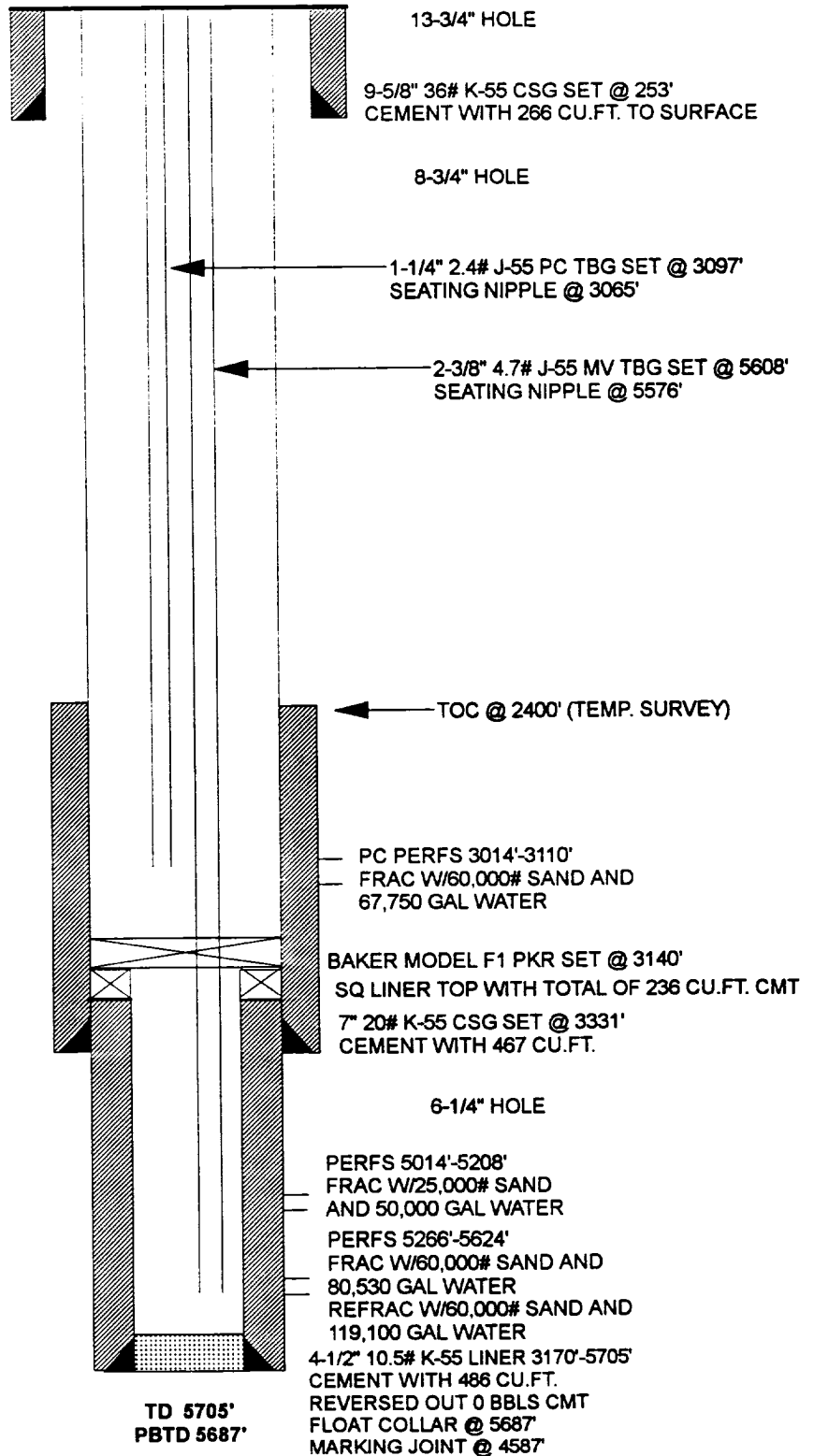
FRUITLAND @ 2659'

PICTURED CLIFFS @ 3002'

MESAVERDE @ 4536'

MENEFEE @ 4797'

POINT LOOKOUT @ 5282'



Sunray D #1A - Mesaverde
Menefee / Cliffhouse Payadd
Lat-Long by TDG: 36.800720 - 107.892334
NW/4 Section 21, T30N-R10W
August 24, 1995

1. Hold safety meeting. MIRU. Comply with all MOI, BLM and NMOC 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 @ 3097'. TOOH w/ 2-3/8" tubing set at 5608'. Replace bad tubing as necessary.
3. TIH w/ an 80 40 CJ milling tool w/ an 87 shoe. Mill packer @ 3140'. TOH w/ packer.
4. PU 7" (20#) casing scraper, TIH and run casing scraper to 3165'. TOOH.
5. TIH with 2-3/8" tubing, 4-1/2" (10.5#) casing scraper and 3-7/8" bit. CO to PBTD of 5687'. TOOH.
6. TIH w/ 4-1/2" CIBP and set CIBP @ 4990'. Load hole w/ 1% KCL water. Spot Menefee interval ($\pm 4825'$ - $\pm 4970'$) w/ 115 gallons of inhibited 15% HCL acid. TOOH.
7. RU wireline and run CBL-GR-CCL from $\pm 4980'$ to TOC in 7" casing (run CBL to find TOC in 4-1/2" liner and 7" casing). Run CNL from 4980' to 4500'. Send copy of logs to engineering and perforation intervals will be provided.
8. Perforate the Menefee interval ($\pm 4825'$ - $\pm 4970'$) 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.
9. TIH w/ 4-1/2" fullbore packer, $\pm 200'$ of 2-3/8" tubing and the remaining 2-7/8" N-80 frac string. Set packer @ $\pm 4980'$. 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.
10. **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 $\pm 3250'$ and reset packer.
11. Hold safety meeting. **Maximum allowable surface treating pressure is 6000 psi @ 30 Bbls/min.** If rate is reduced, the maximum pressure will be lower. (See stimulation schedule for maximum pressures for various rates.)
12. 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.
13. Release packer and TOOH standing back frac string. Check and inspect packer. RU wireline and set a 4-1/2" RBP @ $\pm 4800'$. Dump sand on top of RBP w/ dump bailer.
14. Perforate Cliffhouse interval ($\pm 4550'$ - $\pm 4780'$) 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 #1A
Mesaverde Payadd
August 24, 1995

15. TIH w/ 4-1/2" fullbore packer, $\pm 200'$ of 2-3/8" tubing and the remaining 2-7/8" N-80 frac string. Set packer @ $\pm 4790'$. Load hole w/ water and pressure test RBP to 3800 psi. Release packer, PUH to $\pm 150'$ above top perforation and reset packer.
16. **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 3250' and reset packer.
17. Hold safety meeting. **Maximum allowable surface treating pressure is 6000 psi @ 30 Bbls/min.** If rate is reduced, the maximum pressure will be lower. (See stimulation schedule for maximum pressures for various rates.)
18. 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.
19. Release packer and TOOH laying down frac string.
20. TIH w/ retrieving head and CO to RBP @ $\pm 4800'$ until sand production is minimal. Obtain pitot gauge for Cliffhouse interval. Release RBP @ 4800' and TOOH.
21. TIH w/ 3-7/8" bit and drill up CIBP set @ 4990'. CO to PBDT (5687'). 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.
22. When sand has diminished, TOOH.
23. RU wireline company. Run After Frac GR from 5624' to top of tracer activity.
24. Set a Model D production packer @ 3140'. RD wireline company.
25. TIH with one joint of 2-3/8", 4.7#, J-55 tubing w/ expendable check, an F-nipple, then approximately 2480' of tubing, model G locator seal assembly and then the remaining 2-3/8" production tubing. Land tubing near bottom Mesaverde perforation (5624').
26. TIH w/ one joint of 1-1/4" tubing w/ expendable check, an F-nipple, then the remaining 1-1/4" tubing. Land tubing near bottom PC perforation (3110').
27. ND BOP's, NU WH. Pump off expendable checks. Obtain final pitot. RD and MOL. Return well to production.