

submitted in lieu of Form 3160-5

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells

<p>1. Type of Well GAS</p> <hr/> <p>2. Name of Operator MERIDIAN OIL</p> <hr/> <p>3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700</p> <hr/> <p>4. Location of Well, Footage, Sec., T, R, M 992' FNL, 998' FEL Sec.15, T-30-N, R-10-W, NMPM</p>	<p>5. Lease Number SF-078125</p> <p>6. If Indian, All. or Tribe Name</p> <p>7. Unit Agreement Name</p> <p>8. Well Name & Number Sunray A #1</p> <p>9. API Well No.</p> <p>10. Field and Pool Blanco PC/Blanco MV</p> <p>11. County and State San Juan Co, NM</p>
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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 checked="" 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 Injectio
	<input checked="" type="checkbox"/> Other - packer repair & pay add	

13. Describe Proposed or Completed Operations

It is intended to repair the packer immediately and add the bypassed Mesa Verde pay to this well per the attached procedure and wellbore diagram.

RECEIVED
MAY - 9 1994
OIL CON. DIV.
DIST. 3

RECEIVED

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

Signed *[Signature]* (JK) Title Regulatory Affairs Date 4/22/94

(This space for Federal or State Office use)
APPROVED BY _____ Title _____
CONDITION OF APPROVAL, if any:

APPROVED
Date **APR 28 1994**
DISTRICT MANAGER

Pertinent Data Sheet - Sunray A #1

Location: 992' FNL, 998' EWL, Section 15, T30N, R10W, San Juan County, New Mexico

Field: Blanco Mesaverde
Blanco Pictured Cliffs

Elevation: 6541' DF

TD: 5580'
PBTD: 5546'

Completed: 02-16-53

DP #: MV: 53615A
PC: 53615B

Casing Record:

<u>Hole Size</u>	<u>Csg Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>Top/Cement</u>
12 1/4"	9 5/8"	25.4# Armco	173'	150 sxs	Surface/Circ
8 3/4"	7"	26.0# J-55	4812'	300 sxs	TOC @ 3125' TS*
6 1/4"	5-1/2"	15.5# J-55	4735-5580'	150 sxs	TOC @ 4960'

*Squeezes have been performed on these casing strings, see attached wellbore dia. for details.

Tubing Record:

	<u>Tbg Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>
MV:	2 3/8"	4.7# 8rd J-55	5506'
PC:	1-1/4"	2.4# 10rd J-55	3206'

Formation Tops:

Ojo Alamo:	1984'	Cliff House:	4790'
Fruitland:	2770'	Point Lookout:	5412'
Pictured Cliffs:	3171'		

Logging Record: GR, ES

Stimulation:

Originally completed open hole with 1545 qts SNG.

1960 Recompletion:

PC: Perf - 3174-3188, 3192-3203
Frac - 35000# sd, 35,238 gal water, 68 BPM

MV: Perf - 5412-22, 5428-32, 5436-48, 5454-62, 5477-81, 5486-92, 5504-16, 5518-26
Frac - 55000# sd, 51000 gal water, 73 BPM

Workover History: 1960 - Ran liner in OH and recompleted MV through casing.

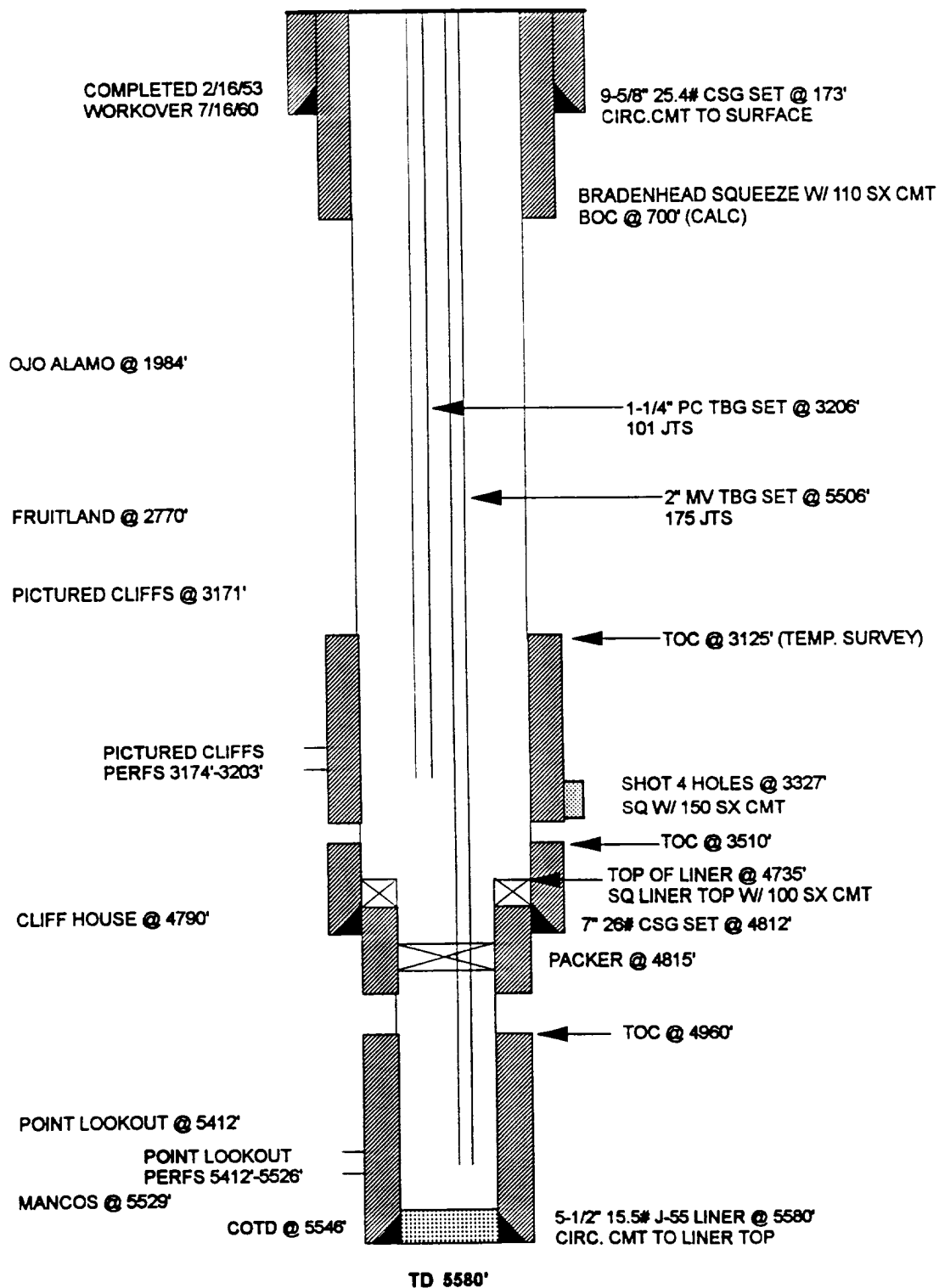
Production History:

Transporter: EPNG

SUNRAY A #1

CURRENT

BLANCO MESAVERDE/PICTURED CLIFFS
UNIT A SEC 15, T30N, R10W, SAN JUAN COUNTY, NM



Walsh Engineering and Production

Completion Prognosis for
Meridian Oil, Inc.
Sunray A #1
A Sec 15 T30N R10W

1. Dig and fence blow pit. Install 2" work valve on casing valve and one 2" flow line. Install 15 - 400 Bbl frac tanks and fill with water for fracture treatment. Add 5# of biocide to each tank before filling. Comply with all MOI, BLM, and NMOCD rules and regulations. Place fire and safety equipment in strategic locations.
2. MOL, hold safety meeting, and RU completion rig. Insure that all safety equipment is in place and working properly.
3. Blow PC (1-1/4", 2.4#, J-55) and MV (2-3/8", 4.7#, J-55, EUE) tubing down, or kill with water if necessary.
4. ND tubing head and NU BOP with offset spool and stripping head. Install all ground equipment.
5. TOH and stand back 101 joints of 1-1/4" tubing. Lay down and replace any bad joints.
6. Make sure PC is dead. Pull BOP and remove donut. Strip BOP back on and NU.
7. Release Guiberson "Shorty" packer set at 4815' (set down and turn left to "J", then pull up) and TOH standing back 175 joints of 2-3/8" tubing (includes 20 joints of tail pipe) and packer. Lay down and replace any bad joints. If packer is stuck, back off at safety joint by turning right, and fish packer with overshot.
8. Make a 7" casing scraper run to liner top at 4735'. Make a 5-1/2" casing scraper run to top of Point Lookout at 5412'. Circulate hole clean.
9. Rig up Blue Jet and set a 5-1/2" CIBP on wireline at 5400'. Top Point Lookout perf at 5412'.
10. Notify Steve Thibodeaux that logs are being run (326-9769). Run CNL, GR\CCL logs from CIBP to 4900'. **Fax TDT data to computing center and have it processed and faxed back immediately.** Perforations listed below are subject to change based on CNL log.
11. Set 7" retrievable bridge plug on wireline above the Pictured Cliffs perms at approximately 3150'. Drop 5 sx of sand on top of RBP with dump bailer. Remove Casasco nipple from wellhead and replace with 2000# valve. Install 2" work valve and 2-3/8" flow line.

12. Pressure 7" casing to 1000# and run CBL from RBP to surface pipe at 173'. If pressure test fails, or there is no cement near the surface, notify Production Engineering for a squeeze procedure. Check the Bradenhead for flow. If the Bradenhead has pressure then contact Production Engineering for a squeeze procedure and replace the 7" RBP at 3150 with a CIBP. Otherwise proceed with attached stimulation procedure.

Menefee Procedure:

13. PU retrieving head and TIH to 7" RBP at 3150' and circulate hole clean. Release RBP and TOH.

14. Perforate the following Menefee intervals with 3-1/8" Select-Fire HSC with charges meeting the requirements for a 0.31" diameter hole and 17" penetration. Approximately 25 holes from 5390' to 5055'.

15. PU and TIH with 2-7/8" X 5-1/2" packer on tapered 2-7/8" by 3-1/2" workstring. (Will need at least 675' of 2-7/8" tubing to knock off balls and still keep 3-1/2" above liner top). Set packer at 4800'. Install 5000# frac valve on top of 3-1/2" tubing.

16. RU frac company. Pressure test surface lines to 5500# (1000# above maximum surface treating pressure). Load annulus with water if possible. Ball off Menefee formation with 2 (7/8" diameter) 1.3 specific gravity ball sealers per perf, spaced evenly in 2 Bbl per perf of 15% HCl acid (approximately 50 balls and 2100 gal of acid). Record breakdown pressures and injection rates throughout job. **Maximum surface treating pressure is 4500 psi.** Acid should contain clay stabilizer, corrosion inhibitor, and iron sequestering agent

17. Release packer and TIH to CIBP at 5400' to knock off balls. POOH to 4800' and reset packer.

18. RU stimulation company. Hold safety meeting. Test surface lines to 5500#. **Maximum treating pressure is 4500 psi.** Fracture Menefee according to attached procedure. Shut in well immediately after completion of the stimulation until pressure falls to zero. RD frac company.

19. Release packer, TOH and standback frac string.

20. Close blind rams and RU wireline lubricator. Set 5-1/2" RBP on top of Menefee perfs at approximately 5040'. Refill frac tanks as necessary.

Cliff House Procedure:

21. Perforate the following Cliff House intervals with 3-1/8" Select-Fire HSC with charges meeting the requirements for a 0.31" diameter hole and 17" penetration. Approximately 25 holes from 4990' to 4816'.
22. PU and TIH with 2-7/8" X 5-1/2" packer on tapered 2-7/8" by 3-1/2" frac string. (Will need at least 315' of 2-7/8" tubing to knock off balls and still keep 3-1/2" above liner top). Set packer at 4780'. Install 5000# frac valve on top of 3-1/2" tubing.
23. RU frac company. Pressure test surface lines to 5500# (1000# above maximum surface treating pressure). Load annulus with water if possible. Ball off Cliff House formation with 2 (7/8" diameter) 1.3 specific gravity ball sealers per perf, spaced evenly in 2 Bbl per perf of 15% HCl acid (approximately 50 balls and 2100 gal of acid). Record breakdown pressures and injection rates throughout job. **Maximum treating pressure is 4500 psi.** Acid should contain clay stabilizer, corrosion inhibitor, and iron sequestering agent
24. Release packer and TIH to RBP at 5040' to knock off balls. POOH to 4800' and reset packer.
25. RU stimulation company. Hold safety meeting. Test surface lines to 5500#. **Maximum surface treating pressure is 4500 psi.** Fracture Cliff House according to attached procedure. Shut in well immediately after completion of the stimulation until pressure falls to zero. RD frac company.
26. Remove frac valve. Release packer and TOH laying down frac string.
27. TIH with retrieving head on 2-3/8" tubing and clean out to RBP between Cliff House and Menefee (5040') with air until sand returns and water production are minimal. Obtain gauge. Release RBP set at 5040' and TOH.
28. Clean out with air to CIBP on top of Point Lookout until sand and water production is minimal.
29. Turn off air compressors and TOH with tubing. Pick up 7" packer and set at 3800' with enough tail pipe so that the bottom of the tubing is at approximately 5100'. Obtain 3 hour IP test. Shut well in for 24 hours. At the end of the 24 hour shut-in period, lubricate in a wireline pressure bomb and obtain a static bottom hole pressure. Rig down wireline and release 7" packer. TOH.
30. Pick up 4-3/4" bit on 2-3/8" tubing and drill CIBP at 5400' and clean out to PBTD at 5546'. TOH with 2-3/8" tubing and bit.

31. RU wireline company and set 5-1/2" Baker Model "D" production packer at 4800'

32. Rig up offset spool. Space out 2-3/8" tubing so that seal assembly is in packer and bottom of tubing is landed at approximately 5400'. Run three sets of seals. Run expendable check on bottom and "F" nipple on top of bottom joint of 2-3/8".

33. Rotate offset spool and change rams. Run 1-1/4" tubing as before with 6' perforated sub and pumpout plug. Land donut.

34. ND BOP and NU wellhead. Pump out plugs and flow both zones up tubing strings. Obtain final gauges. Rig down and release rig.

PJBA
Drilling Superintendent

Vendors:

Western (stimulation)

Blue Jet (wireline)

Mountain States (CIBP, RBP, and packers)

~~Red Top (tanks)~~

~~Mountain Air (air package)~~

WSI (wellhead equipment and frac valve)

Tefteller (pressure bomb)

~~Gilfield Rental (frac string and fishing tools)~~