

State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division

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
1600' ENL, 990' FWL, Sec. 16, T-28-N, R-9-W, NMPM, San Juan County

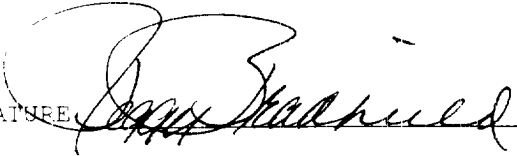
API # (assigned by OCD)
30-045-07491
5. Lease Number
6. State Oil&Gas Lease #
E-9053-3
7. Lease Name/Unit Name
Sanchez A Com
8. Well No.
2
9. Pool Name or Wildcat
Aztec Pictured Cliffs/
Basin Fruitland Coal
10. Elevation:

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 checked="" 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 - Restimulate

13. Describe Proposed or Completed Operations

It is intended to deepen the subject well per the attached procedure and wellbore diagram. An additional 50' of Pictured Cliffs formation will be drilled and the Pictured Cliffs restimulated. The Fruitland Coal will be opened and commingled with the Pictured Cliffs. Application will be made to the New Mexico Oil Conservation Division for commingling and for the non-standard location of the Fruitland Coal.

RECEIVED
SEP 21 1995
OIL CON. DIV.
DIST. 3

SIGNATURE  (TEM3) Regulatory Administrator September 20, 1995

(This space for State Use)
Approved by ORIGINAL SIGNED BY ERNIE BUSC Title DEPUTY OIL & GAS INSPECTOR, DIST. #3 Date SEP 21 1995

District I
PO Box 1988, Hobbs, NM 88241-1988
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-045-07491		Pool Code 71629/71280		Pool Name Basin Fruitland Coal/Aztec Pictured Cliffs	
Property Code 7477		Property Name Sanchez A Com			Well Number 2
OGRID No. 14538		Operator Name MERIDIAN OIL INC.			Elevation 5990'

10 Surface Location

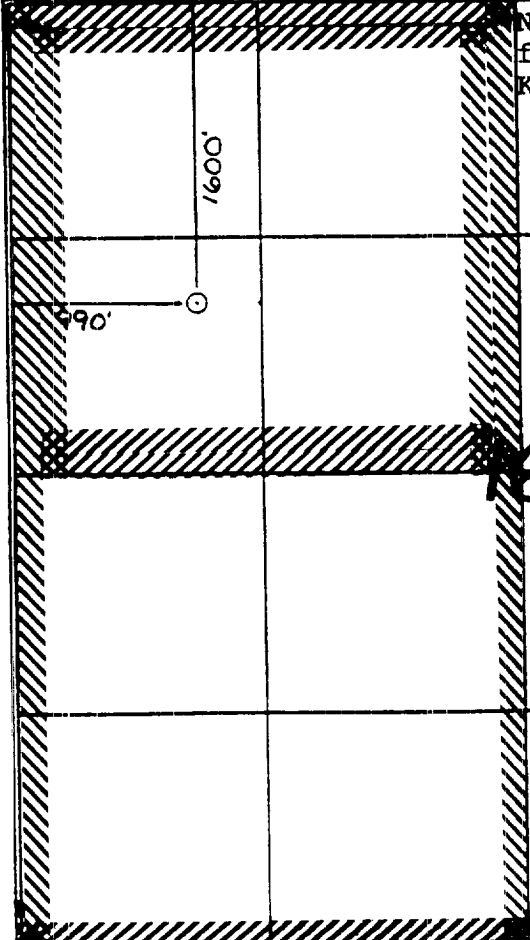


UL or lot no. E	Section 16	Township 28 N	Range 9 W	Lot Idn	Feet from the 1600	North/South line North	Feet from the 990	East/West line West	County S. J.
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11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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12 Dedicated Acres 150-W/320	13 Joint or Infill	14 Consolidation Code	15 Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	Not resurveyed, prepared from a plat by Stephen H. Kinney dated 10-11-55.	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief  Signature Peggy Bradfield Printed Name Regulatory Administrator Title 9-19-95 Date
	18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. 9-19-95 Date of Survey  Signature and Professional Engineer Certificate Number	

PERTINENT DATA SHEET
Sanchez A Com #2

LAT: 36-39-55
LONG: 107-47-57

<u>Location:</u>	1600' FNL, 990' FWL Section 16, T28N, R9W San Juan County, New Mexico	<u>Elevation:</u>	5990' GL
<u>Field:</u>	Aztec Pictured Cliffs	<u>DP#:</u>	32099A
		<u>GW:</u>	100%
		<u>NRI:</u>	87.5%
<u>Spud Date:</u>	11-20-55	<u>TD:</u>	2322'
<u>Completion Date:</u>	12-11-55	<u>PBTD:</u>	

<u>Casing Record:</u>					
<u>Hole Size</u>	<u>Casing Size</u>	<u>Weight & Grade</u>	<u>Depth Set</u>	<u>Sxs Cement</u>	<u>Cement Top</u>
13-3/4"	9-5/8"	40#, J-55	120'	125	surface
8-3/4"	5-1/2"	15.5#, J-55	2265'	100	

<u>Tubing Record:</u>			
<u>Tubing Size</u>	<u>Weight & Grade</u>	<u>Depth Set</u>	
1"	1.7#, T&C Line Pipe	2289' (109 jts.)	

<u>Formation Tops:</u>			
Nacimiento	Surface	Fruitland	2035'
Ojo Alamo	1040'	Pictured Cliffs	2272'
Kirtland	1342'		

Logging Record:
Electrical Log

Stimulation:
Sand frac with 21,000 gal water and 22,000# sand at 44 bpm, 100 psi ATP. Open hole: 2265-2322'

Workover History:
None

<u>Production History:</u>			
Initial Deliverability	1930 mcf/d (AOF)	Latest Deliverability	0 mcf/d
Initial Pressure:	720 psi		
Latest Pressures:	340 psi tbg	342 psi csg	(taken 5-18-95)

Transporter: Oil/Condensate: Meridian Oil Gas: Gas Company of New Mexico

JME

Sanchez A Com #2

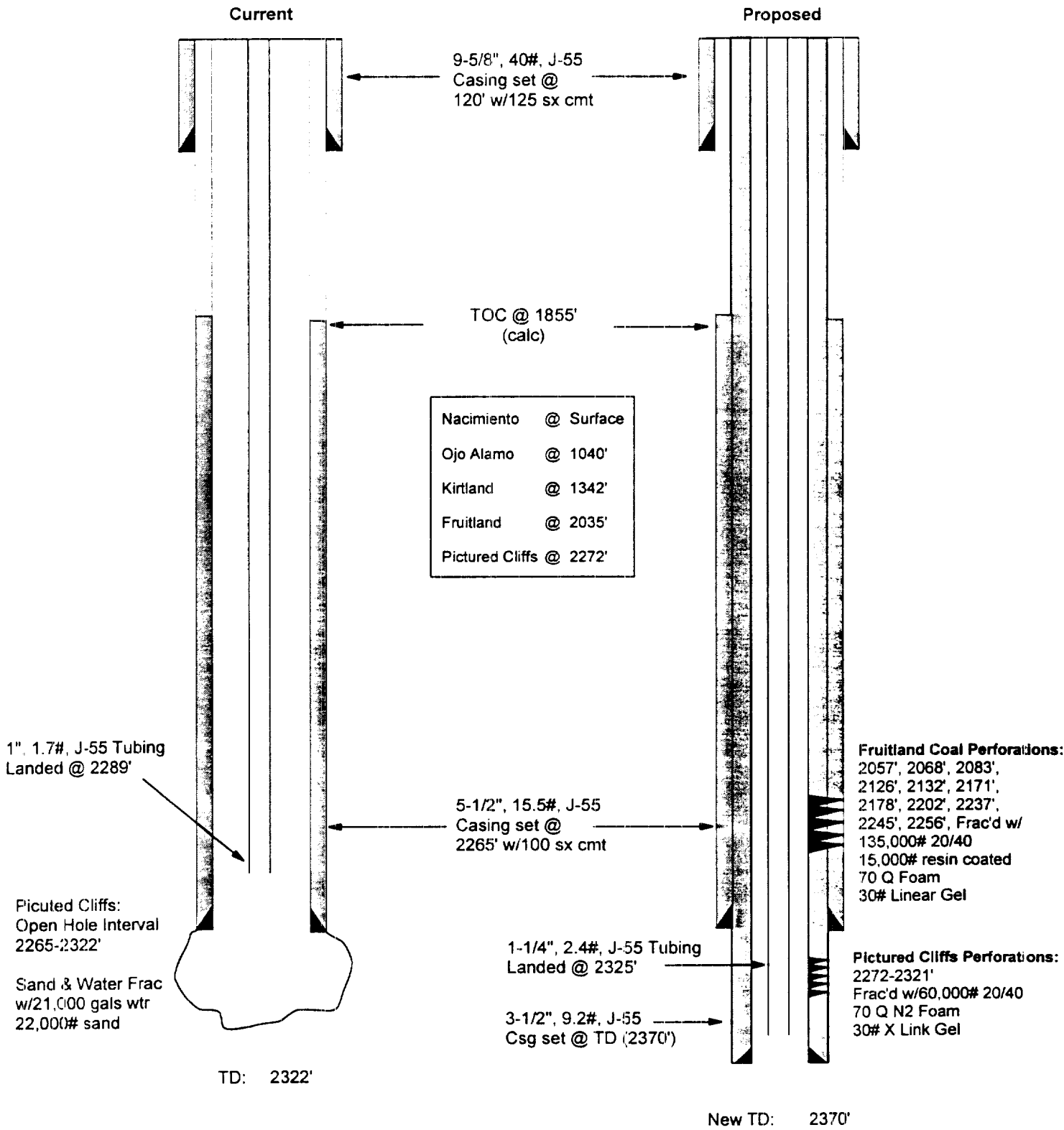
Pictured Cliffs

1600' FNL, 990' FWL
Section 16, T28N, R9W
San Juan County, New Mexico

Elevation: 5990' GR

LAT: 36-39-55

LONG: 107-47-57



JME

Sanchez A Com #2
Fruitland Coal Recompletion/PC Commingle
Unit E-Sec16-T28N-R09W
1600' fsl & 990' fwl

-
- Dig work pits for water recovery/flare pit, fence pits.
 - Comply with all BLM, NMOCD, and MOI rules and regulations.
 - Air will be utilized during workover.
 - 80 joints 2-3/8" J-55 workstring will be utilized in this workover.
 - Spot and fill three (3) 400 bbl frac tanks w/ 2% KCl water. Filter all water to 2 microns.
 - **Always Hold Safety Meetings!**
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This well is an open-hole Pictured Cliffs well completed in 1955. The well will be restimulated in the PC and recompleted in the Fruitland Coal. The wellbore will be reconfigured by drilling an additional 50' to a new TD of 2370' and cementing 3-1/2" tubing in the present 5-1/2" casing. Pay intervals will be stimulated in two stages with nitrogen foam fracs. The formations will be produced commingled.

1. MIRU completion rig. Obtain tubing and casing pressures. Kill well down tubing w/ 2% KCl water. ND WH, NU BOP. Test all equipment.
2. TOOH w/1" tbg and lay down for salvage (109 joints, set @ 2289'). PU 2-3/8" workstring and 5-1/2" casing scraper, TIH to 2260'. TOOH.
3. PU RBP, set @ 2250'. Load hole, pressure test casing to 500 psi. Casing leak not suspected.
4. RU wireline. Dump 10' sand on RBP. Run CBL-CCL from 2250' to surface. Engineering and drilling will design procedure to cement 5-1/2" casing to surface (TOC calculated @ 1855').
6. Drill out cement w/ water, pressure test to 500 psi. TOOH & PU retrieving head on 2-3/8". TIH to RBP @ 2250', equalize across and release. TOOH, lay down RBP. TIH w/ 4-3/4" bit & drill to new TD of 2370'. TOOH.
7. Make sure hole is filled with 2% KCl (minimum fluid level = 1800') for logging. Rig up Blue Jet, run an advanced integrated data processing GSL neutron log from 2370' to 2025'. Correlate log to open hole electric log.
8. Run 3-1/2" OD 9.2# J-55 NUE tbg to TD @ 2370' w/Omega type locking plug & Texas guide shoe on bottom. Cement w/100 sx 50/50 Class "B" POZ w/2% gel & 6-1/2#/sx kolite and 10% salt and 2% CaCl. (Yield = 1.44 cf/sx.) After cementing, run 2 wiper balls & Omega wiper latching plug, followed by 100 gal 7-1/2% HCl acid. Install 3-1/2" casing in new csg spool. WOC 24 hours before perforating.
9. MIRU wireline. Run GR-CCL & correlate to neutron log. Perf PC interval (2272'-2321') as per production engineering. (Perfs will be determined according to GSL log.) Perf 1 SPF, 180° phasing, using 2-1/2" RTG w/10 gr #304 Owen charges (0.30" hole, 10.78" penetration).
10. Breakdown PC perfs down 3-1/2" casing w/1000 gal 7-1/2% HCl (w/2 gal/1000 corrosion inhibitor, 5 gal/1000 iron sequestering agent, 5 gal/1000 iron control, and 1 gal/1000 surfactant) and 100% excess 7/8" 1.3 s.g. ball sealers. Acidize @ 6-8 BPM. Max pressure = 6000 psi. Balloff, release pressure. Displace acid. Run junk basket, retrieve balls, count hits.

11. Frac Pictured Cliffs down 3-1/2" casing w/ 70Q Nitrogen foam and 60,000# 20/40 sand, using 30# X-linked gel as base fluid (1-4 ppg). Treatment rate will be 40 BPM (service co. to have line capacity to go higher). Max pressure is 6000 psi. Sand will not be tagged. Frac schedule to be attached.

12. Shut in well for a minimum of 8 hours to allow resin-coated sand to set. Flush well w/ 2% KCl water in order to minimize time between stages (no trip in to clean out).

13. RU wireline, run gauge ring to 2270'. Set RBP @ 2264 (8' below bottom FTC perf). Dump sand on RBP.

14. Perforate Fruitland Coal interval 1 SPF, 180° phasing, w/ 2-1/2" RTG w/10 gr #304 Owen charges (0.30" hole). Perforate the following depths (2057' - 2245' interval):

2057'	2068'	2083'	2126'	2132'	2171'
2178'	2202'	2237'	2245'		

(10 holes, 59' net pay, 188' interval)

15. RU stimulation company, breakdown Fruitland coal down 3-1/2" casing w/1000 gallons 7.5% HCl (w/2 gal/1000 corrosion inhibitor, 5 gal/1000 iron sequestering agent, 5 gal/1000 iron control, and 1 gal/1000 surfactant) and 22 7/8" 1.3 s.g. ball sealers. Acidize @ 6-8 BPM. Max pressure = 6000 psi. Balloff, release pressure. Displace acid. RD stimulation company, RU wireline. Run junk basket, recover balls, count hits.

16. RU stimulation company, frac Fruitland Coal down 3-1/2" casing w/ 70Q Nitrogen foam and 135,000# 20/40 sand tailed w/ 15,000# resin-coated sand, using 30# linear gel as base fluid (1-5 ppg). Treatment rate is 40 BPM (service co. to have line capacity to go higher). Max pressure = 6000 psi. Pad and 1-2 ppg stages will be tagged w/ Iridium, 3-4 ppg stages tagged w/ Antimony, 5 ppg (resin-coated) stage tagged w/ Scandium. Frac schedule to be attached.

17. Shut in well minimum of 8 hours to all resin-coated sand to set. Flow back well on 1/4" choke, opening up to 3/4" choke. Flow well until sand production is minimal.

18. PU 1-1/4" IJ tubing and retrieving head. TIH, clean out to RBP @ 2264'. Obtain FTC pitot gauge. Equalize across RBP and release. TOOH w/ RBP. TIH w/ 1-1/4" and notched collar, clean out to TD. Pull up to top perf, obtain pitot gauge. TOOH.

19. RU wireline, run multi-isotope after-frac log and temperature log from 2330' to 2025'. PU production string as follows: 1 joint open-ended 1-1/4", seating nipple, remaining 1-1/4" tubing. Set @ 2325'. Take final pitot gauge.

20. ND BOP, NU WH. Rig down, release rig to next location.

Approved:

W.S. [Signature] 8/14
Drilling Superintendent

Concur:

JME for TDS 8/11
Team Leader

JME

[Signature]

Suggested Vendors:

Multi-Isotope After-frac	Halliburton	325-3423
Cased Hole, Perforating	Basin Perforators	327-5124
Stimulation	BJ Services	327-6222
Engineering	Joan Easley	599-4026-work
		324-2717-pager
		327-3061-home