# UNITED STATES DEPARTMENT OF THE INTERIOR BURGALL OF LAND MANAGEMENT

RECEIVED

Sundry Notices and Reports of	eswers PH 2: 1	15	
1. Type of Well GAS	070 FARMINGTON, N		or
GAS		7. Unit Agreement 1	Name
2. Name of Operator MERIDIAN OIL		San Juan 32-9 Un 8. <b>Well Name &amp; Num</b> l	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-	-9700	San Juan 32-9 U 9. API Well No. 30-045-11083	#3
4. Location of Well, Footage, Sec., T, R, M 1190'FNL, 820'FEL, Sec.1, T-31-N, R-10-W, NMPN	м	10. Field and Pool Blanco Pictured Blanco Mesaverd	
H		11. County and State San Juan Co, NM	e
It is intended to add pay and restimulate well. The Pictured Cliffs formation	n will be added al	rmation of the subject	Ξ
attached procedure and wellbore dia	l	DEGETTION SEP 1 6 1956	
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14. I hereby certify that the foregoing is tru	e and correct.		
Signed Manhuel (MEL5) Title Re	gulatory Administ	trator_Date 9/9/96	
(This space for Federal or State Office use)  APPROVED BY	Dat	teAPPROVE	D
CONDITION OF APPROVAL, if any:		SEP 1 0 1996	

ORE

SEP 1 0 1996 /S/ Duane W. Spencer DISTRICT MANAGER District i PO Haz 1980, Hubbs, NM 88241-1980

State of New Mexico RECEIVED
Energy, Minerals & Natural Resources Department M

Form C-102

Revised February 21, 1994 Instructions on back

OIL CONSERVATION OF SETSION OF STATE DISTRICT OF THE PO Box 2088  PO Box 2088  PO Box 2088  State Lease - 4 Copies Fee Lease - 3 Copies	PO Haz 1980, Habbe, AM Sa. District (f	41-1780					DI 0. IE.		Instructions on back
Santa Fe, NM 87504_2088   Fee Lasse - 3 Capies Indicated IV   Santa Fe, NM 87504_2088   Fee Lasse - 3 Capies Indicated IV   Santa Fe, NM 87504_2088   AMENDED REPORT   Total Code   Total Code		<b>88211-0719</b>		OIL CC	NSERVAT	ON 99 19E/ES (O)	NPM 2: 130401	nit to Approp St	oriate District Office
WELL LOCATION AND ACREAGE DEDICATION PLAT    Part Code   Part Code	District III 1900 Nie Brezes Rd., Aziste i	NM 27410		San	ta Fe. NM	2000 37504=2088\\ #	MIN MOTON	F	ee Lease - 3 Copies
WELL LOCATION AND ACREAGE DEDICATION PLAT  AR Number  1 Pool Nume  1 P	District IV			Jan.		070 FARMI	MOTOIN, THAI		MENDED REPORT
AFT Number 30-045-11083 72359/72319 Property Code 7473 San Juan 32-9 Unit Property Code 7473 OGRID No. 14538 RURLINGTON RESOURCES OIL AND GAS COMPANY OF Section 1 31 N 10 W 10 W 1190 North 820 Fast S.J.  II BOUTH Hole Location If Different From Surface  UL or let so. Section Township Range Lat Ide Foot from the North/Seeth line Foot from the R20 Fast S.J.  II BOUTH Hole Location If Different From Surface  UL or let so. Section Township Range Lat Ide Foot from the North/Seeth line Foot from the R20 Fast S.J.  II BOUTH Hole Location If Different From Surface  UL or let so. Section Township Range Lat Ide Foot from the North/Seeth line Foot from the R20 Fast S.J.  II BOUTH Hole Location If Different From Surface  UL or let so. Section Township Range Lat Ide Foot from the North/Seeth line Foot from the R20 Fast S.J.  II BOUTH Hole Location If Different From Surface  UL or let so. Section Township Range Lat Ide Foot from the North/Seeth line Foot from the R20 Fast S.J.  II BOUTH Hole Location If Different From Surface  UL or let so. Section Township Range Lat Ide Foot from the North/Seeth line Foot from the R20 Fast S.J.  II BOUTH Hole Location If Different From Surface  II BOUTH Hol	PO Box 2088, Santa Fe, NM	E7504-2088							ALEMPED KELOWI
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#### San Juan 32-9 Unit #3 - Mesaverde

Point Lookout Restim, Menefee Payadd and Pictured Cliffs Recomplete Lat-Long by TDG: 36.930862 - 107.829422 NE/4 Section 01, T31N-R10W

## **COMPLETION PROCEDURE 8/29/96**

- 1. Hold safety meeting. MIRU. Comply with all MOI, BLM and NMOCD rules and regulations. Install 6 frac tanks and 1x400 bbl rig tank. Fill each frac tank with 3#'s of biocide and Aztec city water with 2% KCI.
- 2. Obtain and record all wellhead pressures. ND WH, NU BOP. TOOH w/ 2-3/8" tubing set at 6104'. Replace bad tubing as necessary.
- 3. TIH with 2-3/8" tubing, 4-1/2" (10.5#) casing scraper and 3-7/8" bit. CO to PBTD of 6214'. Blow hole clean with air/mist. TOOH.
- 4. RIH and wireline set a RBP @ ± 5380'.
- 5. TIH w/ 4-1/2" fullbore packer and two joints of 2-7/8" N-80 frac string. Set packer and pressure test casing and RBP to 3800 psi. Release packer and TOOH standing back frac string.
- 6. TIH w/ retrieving head on 2-3/8" tubing. Latch on to RBP set @ 5380' and TOOH.
- 7. TIH w/ 4-1/2" cement retainer on 2-3/8" tubing. Set cement retainer @ ± 5760' (50' above Point Lookout perfs).
- 8. RU cement company. PU tubing to test position on the retainer. Pressure test tubing to 2500 psi. Set down on tubing to open check and establish an injection rate with water.
- 9. Squeeze below retainer into Point Lookout perforations to 1000 psi with 200 sx of cement keeping the following slurry constant:

Type	Density	Yield	Water vol.	<u>Additives .</u>
Class B	15.6#/gal	1.18 ft^3/sx	5.2 gal/sx	0.3% fluid loss 3.5 #/sx gilsonite

Displace cement w/ 21.5 bbls (under displaced by 0.75 bbls.) Sting out of retainer and TOOH w/ 2-3/8" tubing. WOC for a minimum of 18 hours.

- 10. TIH with 3-7/8" mill, 2-7/8" drill collars (if necessary) and 2-3/8" tubing. Drill out retainer (@ 5760') and cement. CO to PBTD (6214'). TOOH.
- 11. RU wireline w/ full lubricator and perforate the following Point Lookout interval using 3-1/8" HSC guns with 12 gram charges and 0.29" diameter holes: (22 perfs total)

5811	5936
5819	5947
5831	5962
5847	5984
5860	6002
5868	6013
5874	6027
5883	6054
5895	6067
5908	6104
5923	6111

Inspect guns to ensure all perforations fired. RD wireline.

- 12. TIH with two 4-1/2" Scab Liner Packers with 3 joints (± 93') of 2-3/8" tubing between the two packers on 2-3/8" tubing. Set Scab Liner to overlap the existing Cliff House perforations @ 5390' to 5462' (72' between top and bottom perf). Set top packer element @ ± 5380' and bottom element @ ± 5473'. TOOH.
- 13. TIH w/ 4-1/2" fullbore packer and two joints of 2-7/8" N-80 frac string. Set packer @ ± 60'.
- 14. Hold safety meeting. Maximum allowable surface treating pressure is 3800 psi.
- 15. Pressure test surface lines to 4800 psi. (1000 psi over maximum treating pressure but less than the working pressure of the lines.) Restimulate the Point Lookout interval @ ± 40 BPM using 30# linear gel w/ 70 Quality Nitrogen and 110M lbs. of sand tagged with Irridium. (See attached stimulation procedure.) Do not over displace during flush. (Stage flush as soon as sand concentration begins to fall.) Cut flush by 15% if well is on a vacuum. Flow well back immediately through 1/8" positive choke. Increase choke size until pressure falls to zero.
- 16. Release packer and TOOH standing back frac string.
- 17. TIH with Scab Liner retrieving tool and bumper sub on 2-3/8" workstring. Recover Scab Liner and TOOH.
- 18. RU wireline w/ full lubricator. RIH and wireline set a 4-1/2" CIBP @ ± 5800'.
- 19. Perforate the following Menefee interval using 3-1/8" HSC guns with 12 gram charges and 0.29" diameter holes: (24 perfs total)

5548	5699
5552	5703
5556	5713
5577	5719
5580	5724
5583	5729
5638	5742
5668	5744
5671	5747
5679	5759
5687	5763
5693	5771

Inspect guns to ensure all perforations fired. RD wireline.

- 20. TIH w/ 4-1/2" fullbore packer and 2-3/8" work string. Set packer @ ± 5790' and pressure test CIBP to 3800 psi. Release packer, TOOH to ± 5475' and reset packer @ ± 5475'.
- 21. 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 for each perf). Release packer and TlH knocking balls off of perforations. TOOH.
- 22. TIH with two 4-1/2" Scab Liner Packers with 3 joints (± 93') of 2-3/8" tubing between the two packers on 2-3/8" tubing. Set Scab Liner to overlap the existing Cliff House perforations @ 5390' to 5462' (72' between top and bottom perf). Set top packer element @ ± 5380' and bottom element @ ± 5473'. TOOH.
- 23. TIH w/ 4-1/2" fullbore packer and two joints of 2-7/8" N-80 frac string. Set packer @  $\pm$  60'.

- 24. Hold safety meeting. Maximum allowable surface treating pressure is 3800 psi.
- 25. Pressure test surface lines to 4800 psi. (1000 psi over maximum treating pressure but less than the working pressure of the lines.) Fracture stimulate the Menefee interval @ ± 40 BPM using 30# linear gel w/ 70 Quality Nitrogen and 110M lbs. of sand tagged with Irridium. (See attached stimulation procedure.) Do not over displace during flush. (Stage flush as soon as sand concentration begins to fall.) Cut flush by 15% if well is on a vacuum. Flow well back immediately through 1/8" positive choke. Increase choke size until pressure falls to zero.
- 26. Release packer and TOOH standing back frac string.
- 27. TIH with Scab Liner retrieving tool and bumper sub on 2-3/8" workstring. Recover Scab Liner and TOOH.
- 28. RU wireline w/ full lubricator. RIH and set a 4-1/2" CIBP @ ± 5300'.
- 29. RIH w/ free point tool. Free point and back off casing above the free point. Lay down 4-1/2" casing.
- 30. Run CBL-CCL-GR from ± 5300' to surface. Send logs to office immediately and perforations will be provided. If TOC is below PC perforations, contact the office and a squeeze procedure will be provided.
- 31. TIH w/ 7" fullbore packer and 2-3/8" tubing to ± 50' below all squeeze holes. Set packer and pressure test RBP to 3800 psi. Release packer and TOOH.
- 32. Dump  $\pm$  10' of sand on top of RBP w/ dump bailer.
- 33. Perforate the Pictured Cliffs interval (± 3550' ± 3650') using 3-1/8" HSC guns with 12 gram charges and 0.29" diameter holes.
  - Inspect guns to ensure all perforations fired. RD wireline.
- 34. TIH w/ 7" fullbore packer on 3-1/2" N-80 frac string. Set packer @ ± 3400' (provided good cement). Set 500 psi on backside and monitor during acid job.
- 35. Maximum allowable treating pressure is 3450 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 and TlH knocking balls off of perforations. TOOH to ± 3400' (provided good cement) and reset packer. Set ± 500 psi on backside and monitor during frac job.
- 36. Hold safety meeting. Maximum allowable static surface treating pressure is 3450 psi.
- 37. Pressure test surface lines to 6000 psi. (1000 psi over maximum treating pressure but less than the working pressure of the lines.) Fracture stimulate the Pictured Cliffs interval @ ± 40 BPM using 30# linear gel w/ 70 Quality Nitrogen and 86.1M lbs. of sand tagged with Irridium. (See attached stimulation procedure.) Do not over displace during flush. (Stage flush as soon as sand concentration begins to fall.) Cut flush by 15% if well is on a vacuum. Flow well back immediately through 1/8" positive choke. Increase choke size until pressure falls to zero.
- 38. Release packer and TOOH laying down frac string.

San Juan 32-9 Unit #3
Mesaverde Restim/Payadd and Pictured Cliffs Recomplete
Page 4

- 39. TIH w/ 3-7/8" mill and 2-3/8" workstring. CO to CIBP set @ ± 5300'. Obtain accurate pitot gauge for Pictured Cliffs interval. (This will be used in allocation formula for commingling.)
- 40. Drill up CIBP set @ 5300' and CO to CIBP set @ 5800'. Obtain pitot gauge for Pictured Cliffs / Cliffhouse / Menefee interval.
- 41. Drill up CIBP set @ 5800' and CO to PBTD (6214'). 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.
- 42. When sand has diminished, TOOH.
- 43. RU wireline and run After Frac GR from ± 6214' to top of tracer activity.
- 44. TIH with one joint of 2-3/8", 4.7#, J-55 tubing w/ expendable check, an F-nipple, then the remaining 2-3/8" production tubing. CO to PBTD. Land tubing near bottom perforation (6111').
- 45. ND BOP's, NU WH. Pump off expendable check. Obtain final pitot up the tubing if possible. If well will not flow on it's own, make swab run to FN. If a swab run is not necessary, run a broach on slickline to ensure that the tubing is clear. RD and MOL. Return well to production.

Approval:	
, ( <b>PP</b> -2 - 3	Drilling Superintendent
Approval:	
	Northwest Basin Team Leader

## Contacts:

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#### Pertinent Data Sheet

# **SAN JUAN 32-9 #3**

Unit A NE/4 NE/4, Section 01, T31N, R10W, 1190' FNL, 820' FEL, Location:

Lat. 36.930862, Long. -107.829422 by TDG

San Juan County, NM

TD: 6251' Elevation: 6694' GL Field: Blanco Mesaverde **PBTD:** 6214'

KB: N/A

Completed: 06-05-53 Sidetracked 4/17/70 Spud Date: 04-24-53

Prop. No: 0023423 **DP No:** 69971

### Casing/Liner Record:

Unknown 10¾" Unknown 7*	<u>8. <b>&amp; Grade</b> D</u> 40.5# 23# 0.5# J-55	epth <u>Set</u> 227' 5260' 6251'	<u>Cement</u> 115 sx 210 sx 125 sx	to surface TOC unknown 4930' (TS)
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2 3/8" 4.7# J-55 set @ 6104'. **Tubing Record:** 

#### Formation Tops:

Ojo Alamo:	1948'
Kirtland:	2010'
Fruitland:	3107'
Pictured Cliffs:	3540'
Lewis:	3652'
Upper Cliffhouse:	5090'
Massive Cliffhouse:	5390'
Menefee:	5480'
Massive Point Lookout:	5810'
Lower Point Lookout:	5913'

Ind., FDC/GR, TS Logging Record:

Originally completed open hole. Perf/Stim History:

Tubing was cut off @ 5360'. Although the pressure test to 1000 psi on the 7" csg was Workover History

OK, the 7" csg was squeezed across the Ojo Alamo @ 2010' w/340 sx Class "C" cement. Open hole was squeezed w/275 sx Class "C" cement. Drilled cement to 5270' and began drillling sidetrack. Perfed 5810'-5826', 5836'-5852', 5866'-5874', 5894'-5910', 6066'-6070', 6104'-6112'. Fraced with 65,000# of 20/40 sand and 52,590 gallons of water. Perfed 5390'-5406'. 5416'-5420', 5432'-5444', 5454'-5462'. Fraced with 45,000# of 20/40

sand and 38,100 gallons of water.

Problem getting down with perf guns (3-1/2" x 12' casing gun). Dog leg @ 5277. Note:

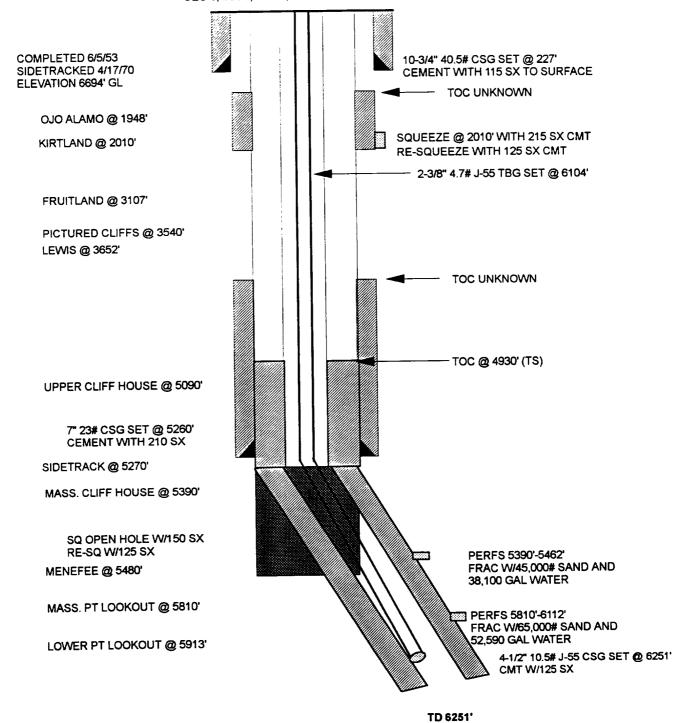
Well may have a plunger installed. Caution:

N. Keeler 9/6/96

## **SAN JUAN 32-9 UNIT #3**

AS OF 4/51/96 BLANCO MESAVERDE

1190' FNL, 820' FEL SEC 1, T31N, R10W, SAN JUAN COUNTY, NM



**PBTD 6214'**