PRIE

## UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Sundry Notices and Re	ports on Wells
1. Type of Well GAS	5. Lease Number SF-080724A 6. If Indian, All. or Tribe Name
	7. Unit Agreement Name
2. Name of Operator MERIDIAN OIL  3. Address & Phone No. of Operator	8. Well Name & Number Zachry #13
PO Box 4289, Farmington, NM 87499 (509	5) 326-9700 9. <b>API Well No.</b>
4. Location of Well, Footage, Sec., T, R, 1 1100'FSL, 1450'FWL Sec.33, T-29-N, R-10	M 10. Field and Pool O-W, NMPM Aztec PC/ Basin Ft Coal 11. County and State San Juan Co, NM
12. CHECK APPROPRIATE BOX TO INDICATE NATU	JRE OF NOTICE, REPORT, OTHER DATA
Type of Submission  _x_ Notice of Intent Abando _x_ Recomp Subsequent Report Pluggi Casing	Type of Action  onment Change of Plans  pletion New Construction  ing Back Non-Routine Fracturing  g Repair Water Shut off  ing Casing Conversion to Injection
Final Abandonment Alteri	ing cabing converse or
13. Describe Proposed or Completed Operat	tions
It is intended to add and complete by perforati the Fruitland Coal formation to this wellbore. Cliffs and Fruitland Coal will be commingled.	ing and fracture stimulation Production from the Pictured
14. I hereby certify that the foregoing	
Signed Man Machuel (SD) Title	Regulatory AffaiAP PDRO VIF/D/93_
(This space for Federal or State Office u	18e) JAN 06 1554
APPROVED BYTit CONDITION OF APPROVAL, if any:	

NMOCD

### State of New Mexico: Energy, Minamis and Natural Resources Department

OIL CONSERVATION DIVISION 5 1713 43 P.O. Box 2088 Sama Fe, New Mexico 87504-2088

## WELL LOCATION AND ACREAGE DEDICATION PLAT

		All Distances must be	from the outer boundaries of the s	ector	
Meridian Oil Inc.			Zachry		13
N	33	29 North	10 West	Comp	San Juan
1100		South	1450.	Wo	
ma torrei More.	Producing For	Here and	Peol	feet from the	Bear Decimal Account:
5796'		oal/Pic.Cliffs	Basin/Aztec		320/160
		he subject well by estated per	eni er incianto esculto en eno pies balo		Asses
2 Yans		d to the well, custing costs and	identify the overskip thereof (both	nt to westing interest a	
3. If there is	m. iono pasing, etc.?	t ownstip is delicated to the	well, have due interest of all owners.	beca comilians by or	
if another a			econty been constituted. (Use see		
No ellered	the will be congress to the	wed must all immens home to	es essentiales (by economical	, consisten, format per	ing or otherwise)
			noved by the Division.	· ·	
*Not res	surveyed, pre	epared		11	ATOR CERTIFICATION
rom a p	lat dated 1	2-4-59		Company A	by comity that the information is
y E.L.	Poteet.	<b>A</b> V:	Media		metado (mai balia).
	i		RECEIVED		Silled fill
	i		A Land	Peggy B	radfield
	į		JANI 2 1994	Primed Name	
· <del></del>				Regulat	ory Representativ
	1		OIL CON DIV.I	1	n Oil Inc.
	ļ		DIS 7	Comme	ii OII Iiic.
	ļ				12-30-93
	ļ			Date	
	i i				
	<b>!</b>	202		SURV	EYOR CERTIFICATION
1.	11/11/11/11			i	
	ì			i de this ele	rify that the well location.
	i			actual. surv	sys made: by me: or-und
	j			SPETTER.	end that the same we true
	İ		i	belief. 1.	-3-94
	1		į,	Date Suppl	E. FILE
				New	e G HEROWSTON
/450	9		1	Sientaly	
	ļ Ĭ		ļ	Production	Suffeyor IOOE7
	-		. [		9857
i					
- 					
	· · · · ·   —   - · ·			1/2	

### Pertinent Data Sheet - Zachry #13

Location: 1100' FSL, 1450' FWL, Section 33, T29N, R10W, San Juan County, New Mexico

Field: Aztec Pictured Cliffs

Elevation: 5753' DF

TD: 2100'

**PBTD:** 2061' RKB

**Completed: 01-27-60** 

**Spud Date: 01-04-60** 

**DP#:** 32176B

Casing Record:

Hole Size Csa Size 12 1/4" 9 5/8"

Wt. & Grade 32.3# H-40 Depth Set 105'

Cement 100 sxs

. :

Top/Cement Surface/Circ

8 3/4" 5 1/2" 15.5# J-55 2100' 156 cf & 140 sxs

**Tubing Record:** 

Tbg Size 2 3/8"

Wt. & Grade 4.7# J-55

Depth Set 1990'

**Formation Tops:** 

Pictured Cliffs: 1987'

Logging Record: Micro, IES

Stimulation:

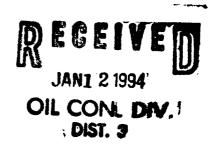
PC: FTC: Sand/Water Frac 1997' - 2052' 4 SPF w/55,000 gal water & 100,000# sand. Sand/Water Frac 1856' - 1827' 4 SPF w/41,500 gal water & 30,000# sand.

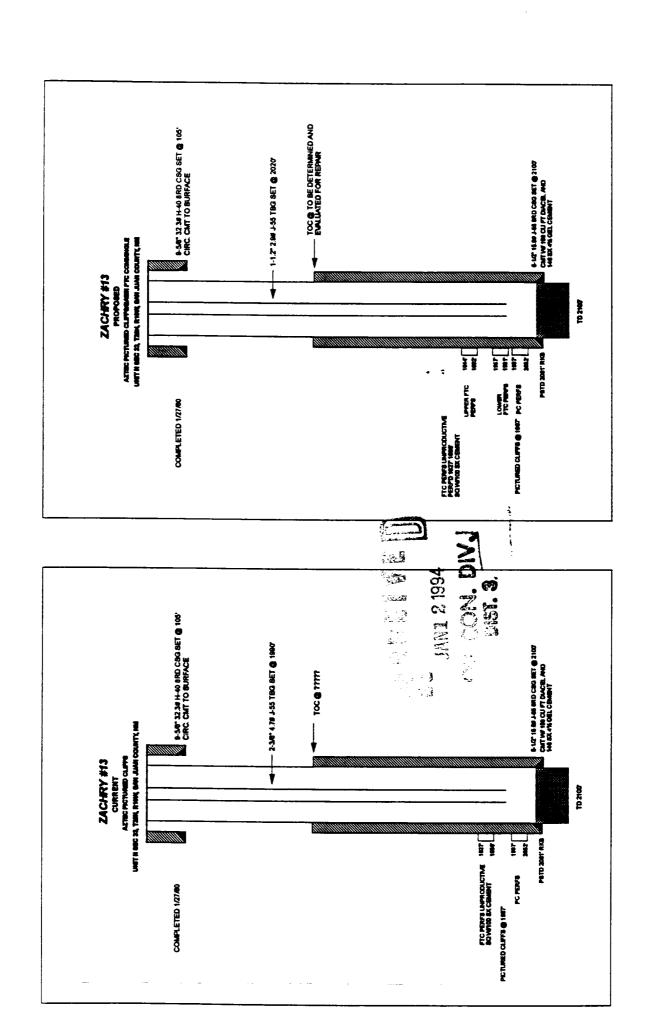
Squeeze perfs 1827' - 1856' w/100 sx cmt.

**Workover History:** 

**Production History:** 

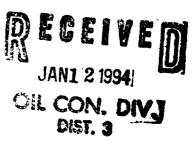
Transporter:





# ZACHRY #13 Recommend Completion Procedure SW/4 Section 33 T29N R10W

- 1. Test rig anchors and repair if necessary. Install 2-400 bbl frac tanks on location and fill with 2% KCl water. Filter all water to 25 microns.
- 2. MOL and RU. Comply to all NMOCD, BLM and MOI rules & regulations. Hold safety meeting. ND wellhead. NU BOP. Test operation of rams. NU two relief lines.
- 3. TOOH w/ 1990 2-3/8", tally and inspect.
- 4. TIH w/ 4-3/4" bit and 5-1/2" casing scraper on 2-3/8" tbg and clean out 5-1/2" casing to PBTD @ 2061'. TOOH.
- 5. Load hole w/ 15 bbls 2% KCl water. RU & RIH w/ CNL-CCL-GR and log from PBTD @ 2061' to 1600'
- 6. RIH and wireline set 5-1/2" CIBP @ 1984'. Load hole w/ water. TOOH.
- 7. TIH w/ fullbore packer and 2-3/8" tubing, set packer @1950', test CIBP to 3000 psi for 15 minutes. Test tubing/casing annulus to 500 psi for 15 minutes. Equalize pressure and unseat packer. TOOH.
- 8. RU wireline and run CBL from PBTD (1984') to 150'. If CBL appears inadequate, re-run log with 750 psi surface pressure. If bond still appears unacceptable, contact production engineering. Send copy of CBL to production engineering.
- 9. Insure both 400 bbl tanks on location are filled with 2% KCl water in preparation for Fruitland coal fracs. Filter all water to 25 microns.



# ZACHRY #13 Recommend Completion Procedure SW/4 Section 33 T29N R10W Page 2

### \*\*\*LOWER COAL\*\*\*

10. RU wireline and perf the following coal interval w/ 3-3/8" HSC w/ 16.0 gram charges @ 4 SPF (correlate depths to CNL-CCL-GR log).

1967-1981'

Total: 14 feet: 58 holes

- 11. TIH w/ 3-1/2" 9.3# N-80 FJ frac string and set fullbore pkr @ 1920'. Load backside w/ 2% KCI water.
- 12. RU treatment company for frac. Hold safety meeting with <u>all</u> personnel. Pressure test surface lines to 5000 psi. Fracture treat lower coal according to attached schedule w/ 70Q foam at 20 BPM with 65,000 lbs of 20/40 mesh Arizona sand. <u>Tag all sand w/ 0.25 mCi/1000# Sc-46 tracer</u>. Flush with 15 bbls gel. Estimated treating pressure is 1700 psi. <u>MAXIMUM PRESSURE IS LIMITED TO 4000 PSII</u> Monitor backside and braden head pressures during frac. Monitor bottomhole and surface treating pressure, rate, foam quality and sand concentration with computer van. Frac during daylight only.
- 13. SI well for 3 hours for gel break.
- 14. After gel break, open well through choke manifold & monitor flow. Flow @ 20 bbls/hr, or less if sand is observed.
- 15. Re-fill 400 bbl frac tanks with 2% KCI water and filter to 25 microns.
- 16. When well ceases to flow, TOOH w/ pkr and frac string. TiH w/ 2-3/8" tbg and csg scraper to 1950'. TOOH. TiH and set 5-1/2" RBP @ 1920'.





# ZACHRY #13 Recommend Completion Procedure SW/4 Section 33 T29N R10W Page 3

\*\*\*UPPER COAL\*\*\*

17. RU wireline and perf the following coal interval w/ 3-3/8" HSC w/ 16.0 gram charges @ 4 SPF (correlate depths to CNL-CCL-GR log).

### 1844-1854', 1889-1892

Total: 13 feet: 52 holes

- 18. TIH w/ frac string and set pkr @ 1900'. Pressure test BP to 3000 psi surface pressure.
- 19. Release pkr, PU to 1800', spot 150 gallons of 15% HCI acid across perfs, load backside and set pkr @ approx 1800'.
- 20. RU treatment company for frac. Hold safety meeting with <u>all</u> personnel. Pressure test surface lines to 5000 psi. Fracture treat upper coal according to attached schedule w/ 70Q foam at 30 BPM with 75,000 lbs of 20/40 mesh Arizona sand. Tag all sand w/ 0.4 mCi/1000# Ir-192 tracer. Flush with 15 bbls gel. Estimated treating pressure is 2300 psi. MAXIMUM PRESSURE IS LIMITED TO 4000 PSII Monitor backside and braden head pressures during frac. Monitor bottomhole and surface treating pressure, rate, foam quality and sand concentration with computer van. Frac during daylight only.
- 21. SI well for 3 hours for gel break.
- 22. After get break, open well through choke manifold & monitor flow. Flow @ 20 bbls/hr, or less if sand is observed.
- 23. When well ceases to flow, TOOH w/ pkr and frac string. TiH w/ retrieving head on 2-3/8" tbg and clean out upper zone until sand flow stops. <u>Take Pitot gauge before releasing BP</u>. Release RBP set @ 1920' and TOOH.
- 24. TIH w/ 2 3/8" tbg open ended and clean out lower coal until sand stops. After clean up, flow test the Coal for 24 hrs, taking pitot gauges every 6 hrs. <u>Take final Pitot gauge</u> and gas & water samples. TOOH
- 25. TIH w/ 2-3/8" tbg and 4 3/4" bit, clean out to PBTD. Blow well clean. Drill out CIPB set @ 1992', clean out to open hole TD. TOOH laying down 2-3/8" tbg.
- 26. RU wireline and run After Frac GR log from 2060' to 1700'.
- 27. TIH w/ 2020' of 1-1/2" tbg w/ standard seating nipple one jt off bottom and pump-off plug on bottom. Land tbg string.

28. ND BOP and NU independent wellhead. Pump off plug. <u>Take final Pitot gauge.</u> Rig down & release rig.

Approve:

A Hawieson

**VENDORS:** 

Wireline: Fracturing: RA Tagging: Schlumberger B.J. Services

325-5006 327-6288

Protechnics

326-7133