UNITED STATES

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wel	ls	/
	<u>.</u>	
	5.	Lease Number SF-078936
1. Type of Well GAS	6.	If Indian, All. or Tribe Name
	7.	Unit Agreement Name
2. Name of Operator		•
MERIDIAN OIL	8.	Well Name & Number
3. Address & Phone No. of Operator		Harmon A #2
PO Box 4289, Farmington, NM 87499 (505) 326-9700	9.	API Well No. 30-045-06888
4. Location of Well, Footage, Sec., T, R, M 1650'FNL, 1650'FWL, Sec.2, T-27-N, R-12-W, NMPM	10.	Field and Pool Basin Fruitland Coal/
F	11.	W. Kutz Pictured Cliffs County and State San Juan Co, NM
12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE	. REPORT. OTHER	DATA
Type of Submission Type of Ac		
X Notice of Intent Abandonment	Change of Pla New Construct	
Subsequent Report Plugging Back	Non-Routine H	Fracturing
Final Abandonment — Casing Repair _ Altering Casing	Water Shut of Conversion to	
Other -	CONVERSION CO	7 Injection
13. Describe Proposed or Completed Operations		
	e according to t on from the Pict	he attached ured Cliffs and
14. I hegeby certify that the foregoing is true and	correct.	, - 1,
Signed Malhue (LJB2) Title Regulator		te 10/4/94
(This space for Federal or State Office use)		
APPROVED BYTitle CONDITION OF APPROVAL, if any:	Date	0000
27 - 22	M F	PROVEL
C-104 For Note & plat	्राध्याः श्रीवादः श्रीवादः	OCT 0.4.1994 Ined: STEPHEN MAGE PICT MONOGEE

HARMON A #2 Recommend Remediation/Recompletion Procedure NW/4 Section 2 T27N R12W

- 1. Test rig anchors and repair if necessary. Install 2-400 bbl frac tank 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.
- Unseat packer set @1534', TOOH w/ 1615' (48 jts) of 1-1/2" tbg, tally & inspect. PU 2-7/8" workstring.
- 4. TIH w/ 4-3/4" bit and 5-1/2" casing scraper on 2-7/8" tbg and clean out to 5-1/2" casing shoe @ 1601', load hole w/ 25 bbls 2% KCl. TOOH.
- 5. RU wireline and run CNL-CCL-GR.to 1300'.
- 6. RIH and set 5-1/2" CIBP @ 1550'. Load hole w/ water.
- 7. Pressure test csg to 500 psi to assure that holes exist in csg. TIH w/ workstring and pkr and pressure test under pkr to determine depth of deepest hole. TOOH.
- 8. RU wireline and run CBL-CCL-GR from PBTD (1550') to 150'. Run MTT-Calliper csg inspection log from PBTD to 150'. Send copy of CBL and MTT logs to production engineering.
- PU and install csg spear. PU 5-1/2" csg to release csg slips. RU wireline and run "Free-Point". Determine csg Free-Point. Cut casing at depth to be determined from MTT-Caliper log and "Free-Point".
- 10. Condition and circulate hole clean with mud. TOOH w/ 5-1/2" casing.
- 11. PU skirted mill. RIH and polish off top of 5-1/2" csg. TOOH.
- 12. RIH w/ new 5-1/2" csg w/ "Bowen Lead Seal" casing patch, 1 10' jt of 5-1/2" 15.5# K-55 casing, 1 DV stage tool, followed by 5-1/2" 15.5# K-55 casing to surface, tie into existing csg in well. Set seal. Pressure test csg and patch to 500 psi. If seal and casing hold pressure Drop ball to open stage tool. Cement w/ (0.41 sxs/ft of replacement casing) class "B" neat cement w/ 2% CaCl2 (100% excess to circulate to surface). Set csg in slips and cut off top of csg.
- 13. TIH w/ 4-3/4" bit and four 3-1/2" drill collars on 2-7/8" tbg and drill out stage tool, then drill out CIBP (set @ 1550') and clean out to TD (@1693'). TOOH, LDDC.
- 14. TIH w 4-3/4" bit on 2-7/8" to 1550 ft. Unload hole and clean out open hole portion of well bore to TD with air and foam sweeps. TOOH to 1550'.
- 15. Close wing valves and pipe rams, pump into formation with air, monitoring pressure, do not exceed 500 psi, for 1 hour. Shut well in for 30 minutes. Open wing valve and flow well to pit. TIH and cleanout to TD. TOOH to 1550'. Continue process for 8 hours. TIH and cleanout to TD. TOOH

HARMON A #2

Recommend Remediation/Recompletion Procedure NW/4 Section 2 T27N R12W

Page 2

- 16. TIH w/ 5 1/2" packer on 2-7/8" tubing to 1595', set packer @1595', spot 200 gallons 15% HCl acid, displace acid with Nitrogen into formation, shut well in for 2 hrs, flow well overnight. Release packer, TOOH w/ packer & tubing.
- 17. TIH to TD and clean out fill. Swab well if necessary to establish flow, gauge PC. TOOH
- 18. RU wireline and RIH w/ 5-1/2" RBP and set @ 1598'
- 19. TIH w/ 5 1/2" fullbore packer on 2-7/8" tubing to 1595', load hole w/ 2% KCl water, set packer @1595', test bridge plug to 2500 psi. TOOH

FRUITLAND COAL

19. RU wireline and perf the following coal interval w/ 4" HSC w/ 19.8 gram charges @ 4 SPF (correlate depths to CNL-CCL-GR log).

1447-1449'

1498-1500'

1584-1596'

Total: 23 feet: 92 holes

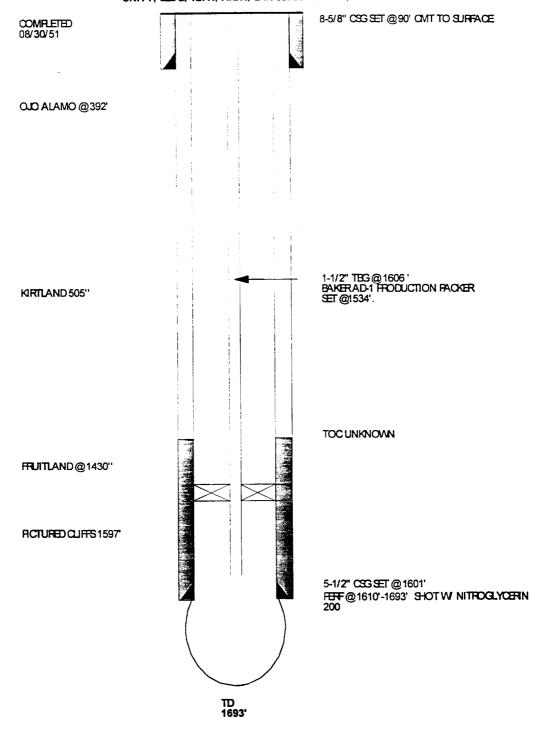
- 20. PU 5-1/2" SAP TOOL on 2-7/8" tubing. TIH to 1594' set packer, load backside w/ 2% KCl water. SAP perforations in 2' intervals w/ 20 gallons of 15%HCl acid per foot (460 gallons total). TOOH w/ 2-7/8" tbg & SAP tool.
- 21. PU 5-1/2" fullbore packer on 2-7/8" 6.4#, N-80 Frac string. TIH to 1400', set packer, load backside w/ 2% KCl water, set blanking plug in tubing @ 1375', test tubing to 5000 psi, release pressure, remove blanking plug, pressure test annulus to 500 psi to test packer.
- 22. Fracture treat lower coal according to attached schedule w/ 70Q foam at 25 BPM with 165,000 lbs of 20/40 mesh Arizona sand and 10,000 lbs 12/20 mesh Brady sand. Tag pad and sand as stated in attached Nitrogen Foam Stimulation Procedure. Flush with 7 bbls 2% KCl water. Estimated treating pressure is 2800 psi. MAXIMUM PRESSURE IS LIMITED TO 5000 PSI! 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.
- 23. SI well for 3 hours for gel break.
- 24. After gel break, open well through choke manifold & monitor flow. Flow @ 20 bbls/hr, or less if sand is observed.
- 25. When well ceases to flow, TOOH w/ pkr and frac string. TIH w/ 2-7/8" tbg and 4-3/4" bit and clean out to TD until sand flow stops. Take Pitot gauge. TOOH.
- 26. TIH & retrieve RBP set @1598
- 27. TIH w/ 1-1/2" tbg and seating nipple, notched collar on bottom, 1 jt 1-1/2, std seating nipple, tbg to surface. Tag bottom, pick up no more than 10'. Land tbg @ 1680'.
- 28. ND BOP, NU wellhead. RD move to next location.

Cheb Welke, J.

HARMON A #2 50849A

CURRENT - AUGUST 10,1994 WEST KUTZ FICTURED CLIFFS (GAS)

UNIT F, SEC 2, T27N, R12W, SAN JUAN COUNTY, NM



HARMON A #2 50849A/B

PROPSED - AUGUST 10,1994

WEST KUTZ FICTURED CLIFFS (GAS)

UNIT F, SEC 2, T27N, R12W, SAN JUAN COUNTY, NM

