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

BOREAG OF HAMP PANAGEMENT	
Sundry Notices and Reports on Wel	lls
1. Type of Well GAS	5. Lease Number SF-079266 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 PO Box 4289, Farmington, NM 87499 (505) 326-9700	- Vaughn #12
4. Location of Well, Footage, Sec., T, R, M 1500'FSL, 1800'FWL Sec.26, T-26-N, R-6-W, NMPM	10. Field and Pool Basin Dakota 11. County and State Rio Arriba Co, NM
12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE	
Recompletion  Subsequent Report  Casing Repair  ———————————————————————————————————	<pre>Change of Plans New Construction Non-Routine Fracturing Water Shut off Conversion to Injection</pre>
13. Describe Proposed or Completed Operations	
It is intended to open the Mesa Verde formation and Dakota in this well. Commingling application New Mexico Oil Conservation Division occur until at least three months after data is acquired. After this three months formula will be submitted for approval. proposed procedure and wellbore diagram.	cation is being made with n. Commingling will not Mesa Verde production th test, an allocation Attached is the
APR2.8,1993	
OIL CON. DIV.	
14. I hereby certify that the foregoing is true and o	correct.
Signed Manufactory At	<u>ffairs</u> Date 4/20/93
(This space for Federal or State Office use) APPROVED BY	APPROVED  Date 23 1993
CONDITION OF APPROVAL, if any:	DISTRICT MANAGER

## Vaughn # 12 Mesaverde Completion Procedure & Commingle with Dakota T26NR06WSec26K

Prior to Moving on Location. Comply with all BLM, NMOCD, & MOI rules and regulations. Verify Commingle Application Approval. Dig Reserve & Blow Pit. Install & Test Rig Anchors. Always Hold Safety Meetings.

- Move on Location. Blow down 2-3/8" tubing. ND WH. NU BOP & Test rams. TIH & tag fill. TOOH w/2-3/8". Spot Six (6) - 400bbl tanks & Fill w/ filtered 2% KCl water.
- 2. w/wireline Run 4-1/2" 11.6# gauge ring to 5400'. Note DV @ 5408'. PU 4-1/2" RBP & PKR combination on 2-3/8" tubing. TIH & set RBP @ 5350'. Dump 1 sx sand on RBP down tubing. Fill hole w/ 2% KCl water. Pressure Test tubing to 3800psi. Test RBP & casing in two stages # 1 to 2000 psi. Hold 5 min, then # 2 to 3800 psi. Hold & record pressure for 10 min. TOOH.
- 3. Run GR-CCL-CBL from 5350' to surface. Assure bond from 5350' to 4950'. Advise Engineering.
- 4. NU Treesaver. Test Casing & WH to 3800 psi. ND Treesaver.
- 5. w/ wireline. Perforate First Stage with 3-1/8" HSC select fire (Owen 10gr charge, 0.38" Dp, Lp 17"). Perforate bottom up underneath a packoff as follows 19 holes 1 SPF @:
  - 5226', 5228', 5230', 5232', 5234', 5236', 5238', 5240', 5262', 5264', 5273', 5275', 5284', 5286', 5288', 5290', 5334', 5336', 5338'

    Correlate perfs w/ attached GR log section.
- 6. TIH with PKR on 2-3/8". Set PKR 150' above perforations. Breakdown perforations with 400 gallons 15% HCl inhibited acid(surf 1gal/1000) & 50 bbls (2100gal) of filtered 2% KCl at 6 to 8 BPM. Ball-off with 38 7/8" RCN 1.1 spec grav ball sealers. Unseat PKR. Knock balls off perforations. TOOH.
- 7. With Treesaver installed. Frac First Stage as per attached schedule. 35 BPM 1ppg to 2ppg stages with 133,900 gal 70Q foam, 30# linear gel, & 121,000# 20/40 Arizona sand. Flush with 2% KCl water. Max pressure 3800 psi. Strip out w/ Treesaver under pressure. Shut Blind rams. ND Treesaver.
- 8. w/ lubricator, run 4-1/2" RBP. Set RBP @ 5210'. Dump 1 sx sand on RBP.
- 9. Fill hole. Should be full because of liquid flush. w/ Treesaver test 4-1/2" casing & RBP to 3800 psi. Hold & record pressure 10 min.
- w/ wireline. Perforate Second Stage with 3-1/8" HSC select fire (Owen 10gr charge, 0.38" Dp, Lp 17"). Perforate bottom up under a packoff as follows 17 holes 1 SPF @:
  - 5116', 5118', 5120', 5122', 5124', 5129', 5131', 5133', 5135', 5166', 5168', 5170', 5176', 5178', 5182', 5184', 5186'

    Correlate perfs w/ attached GR log section.
- 11. TIH with PKR on 2-3/8". Set PKR 150' above perforations. Breakdown perforations with 400 gallons 15% HCl inhibited acid(surf 1gal/1000) & 50 bbls (2100gal) of filtered 2% KCl at 6 to 8 BPM. Ball-off with 34 7/8" RCN 1.1 spec grav ball sealers. Unseat PKR. Knock balls off perforations. TOOH.

- 12. With Treesaver installed. Frac Second Stage as per attached schedule. 35 BPM 1ppg to 2 ppg stages with 133,900 gal 70Q foam, 30# linear gel, & 121,000# 20/40 Arizona sand. Max pressure 3800 psi. Flush with 2% KCI.
- Wait on gel to break 3hrs. Flow back second stage. When rates & pressures allow remove Treesaver. TIH w/ retreiving head. Clean out to RBP. Obtain a gauge prior to releasing RBP.
- 14. TOOH w/ RBP. Flow & gauge well. TIH & clean out to RBP @ 5350'. Blow well and obtain gauges. TOOH.
- 15. Run after-frac Gamma Ray log in 4-1/2" csg.
- TiH w/ production string as follows. One jt 2-3/8" openended, one 4' perforated sub, one 'F' nipple, & remaining 2-3/8". Land tubing @ 5200'.
- 17. ND BOP. NU WH. Rig Down & move off location. Obtain final 1 hr gauge up tubing.
- 18. Rig up Tefteller. Run 7 day btm hole pressure bomb in SN. SI 7 days. Retreive bomb.
- 19. Production Operations will first deliver well to EPNG.
- 20. After 3 months production. The RBP will be recovered and the well commingled in the Mesaverde and Dakota.

	Approved:	J. A. Howieson Drilling Superintendent
Suggested Vendors: Stimulation Services	Halliburton	325-3575
Perforating	Basin Perforators	327-5244
Treesaver	Wellhead Isolation Tool	s 599-5609
Pressure Bomb	Tefteller	325-1731
Radioactive Tagging	Protechnics	326-7133
Water Filtering	Blakley Oilfield Service	326-6934
Packers & Bridge Plug		325-0216
Engineering	T. E. Mullins	326-9546-W
_ ingiliooning		325-9361-H

## **VAUGHN #12**

BASIN DAKOTA

NE/SW, SECTION 26, T26N-R06W, RIO ARRIBA COUNTY, NEW MEXICO

