

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

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
790'FSL, 1750'FEL Sec.33, T-26-N, R-6-W, NMPM

5. Lease Number
SF-079265

6. If Indian, All. or
Tribe Name

7. Unit Agreement Name

8. Well Name & Number
Klein #26E

9. API Well No.

10. Field and Pool
Basin Dakota

11. County and State
Rio Arriba Co, NM

12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA

Type of Submission

Type of Action

☒ Notice of Intent

☐ Abandonment

☐ Change of Plans

☐ Subsequent Report

☐ Recompletion

☐ New Construction

☐ Final Abandonment

☐ Plugging Back

☐ Non-Routine Fracturing

☐ Casing Repair

☐ Water Shut off

☐ Altering Casing

☐ Conversion to Injection

☒ Other -Add Mesa Verde & commingle

13. Describe Proposed or Completed Operations

It is intended to open the Mesa Verde formation and commingle with the Dakota in this well. Commingling application is being made with the New Mexico Oil Conservation Division. Commingling will not occur until at least three months after Mesa Verde production data is acquired. After this three month test, an allocation formula will be submitted for approval. Attached is the proposed procedure and wellbore diagram.

RECEIVED
APR 28 1993
OIL CON. DIV.
DIST. 3

APR 28 1993 11:30 AM

RECEIVED

14. I hereby certify that the foregoing is true and correct.

Signed [Signature] (TEM) Title Regulatory Affairs Date 4/20/93

(This space for Federal or State Office use)

APPROVED BY _____ Title _____

CONDITION OF APPROVAL, if any:

APPROVED

APR 23 1993

DISTRICT MANAGER

Klein # 26E
Mesaverde Completion Procedure & Commingle with Dakota
T26NR06WSec33O

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.**

1. 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 @ 5734'. 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 5000'. 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 12gr charge, 0.28" Dp, Lp 15"). Perforate bottom up underneath a packoff as follows 28 holes 1 SPF @:

5166', 5180', 5182', 5184', 5186', 5188', 5190', 5196', 5198', 5212', 5214', 5216', 5232', 5234', 5238', 5240', 5242', 5244', 5248', 5252', 5254', 5276', 5278', 5292', 5294', 5300', 5302', 5304'
Correlate perms 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) & 56 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 176,600 gal 70Q foam, 30# linear gel, & 160,000# 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.
10. 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 19 holes 1 SPF @:

5096', 5098', 5100', 5104', 5106', 5108', 5114', 5116', 5118', 5120', 5122', 5124', 5126', 5128', 5130', 5132', 5134', 5136', 5138' Correlate perms 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 38 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 116,500 gal 70Q foam, 30# linear gel, & 105,000# 20/40 Arizona sand. Max pressure 3800 psi. Flush with 2% KCl.
13. Wait on gel to break 3hrs. Flow back second stage. When rates & pressures allow remove Treesaver. TIH w/ retrieving 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.
16. 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. Retrieve 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 Tools	599-5609
Pressure Bomb	Tefteller	325-1731
Radioactive Tagging	Protechnics	326-7133
Water Filtering	Blakley Oilfield Service	326-6934
Packers & Bridge Plugs	Baker Service Tools	325-0216
Engineering	T. E. Mullins	326-9546-W 325-9361-H

THM

KLEIN #26E

BASIN DAKOTA

SW/NE, SECTION 33, T26N-R06W, RIO ARRIBA COUNTY, NEW MEXICO

