# State of New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division

	API # (assigned by OCD) 30-045-08964 5. Lease Number  6. State Oil&Gas Lease # E-1193-3 7. Lease Name/Unit Name EPNG Com D  8. Well No. 5 9. Pool Name or Wildcat Blanco Mesaverde 10. Elevation: 6201 GR  Juan County
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 1550'FSL, 1500'FWL, Sec.36, T-30-N, R-8-W, NMPM, San J  Type of Submission Type of Actio X Notice of Intent Abandonment	5. Lease Number  6. State Oil&Gas Lease # E-1193-3  7. Lease Name/Unit Name EPNG Com D  8. Well No. 5  9. Pool Name or Wildcat Blanco Mesaverde  10. Elevation: 6201 GR
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X Notice of Intent Abandonment	
X Notice of Intent Abandonment	
Recompletion	Change of Plans
	New Construction
Subsequent Report Plugging Back	Non-Routine Fracturing
	Water Shut off
Final Abandonment Altering Casing X Other - Pay add	Conversion to Injection
_x_ Other - ray add	
repaired.	PECEIVED  AUG 2 9 1996  OIL CON. DIV.  DIST. 3
(This space for State Use)	INSPECTOR, DIST. #3 Date AUG 2 9 1990

## E. P. N. G. COM D #5

Meridian Oil, Inc. Blanco Mesaverde Unit K-Sec36-T30N -R08W

Lat: 36° 45' 55"

Long: 107° 37' 50"

## CAPITAL WORKOVER PROCEDURE

- Comply with all BLM, NMOCD, & MOI rules & regulations.
- Always Hold Safety Meetings. Place fire and safety equipment in strategic locations.
- 2-7/8" N-80 Buttress Frac String (5300' +/- required).
- Twenty (20) joints 2-3/8" 4.7# EUE N-80 tubing, and six (6) 3-1/8" drill collars on location
- 7 frac tanks to be spotted and filled with 2% KCl water.
- Use drill gas for all operations.

This well is a 1996 obligatory well in which the Mesaverde production will be reestablished by cleaning out and repairing the casing initially. Once this is completed the well will be returned to production and tested on compression for 90-120 days. Once a base production profile has been reestablished a Menefee pay add will be performed. The well was drilled and completed in 1956. The original stimulation consisted of a single-stage sand-water frac in the Point Lookout and Cliff House intervals only. The well has been inactive since 1990. The EUR indicated by the P/Z graph for this well shows considerable potential exists if production can be reestablished and optimized. Cumulative Mesaverde production is 4,074 MMCF/ 7.2 MBO. It is expected that a leak exists between the Intermediate (7 5/8") and production (5 1/2") casing

### Casing Repair/Workover:

Prior to rig arriving, the location cleared, blue staked, and anchors installed and tested.

- 1. MIRU. Record and report SI pressures on tubing, casing, & bradenhead. Lay blowdown line. Blow down casing & tubing. Kill well w/ 2% KCl down tubing. ND WH, NU BOP.
- 2. TOOH, rabbit, & strap 172 joints 2-3/8" tubing (from 5378', tally attached). Visually inspect tubing, note any scale in tubing. Replace any damaged joints. Utilize tubing for 2-3/8" workstring.
- 3. PU 4 3/4" bit, casing scraper, float, six (6) 3-1/8" drill collars & 2-3/8" 4.7# J-55 EUE workstring TIH & clean out to 4800'. TOOH
- 4. On 2-3/8" 4.7# J-55 EUE workstring TiH & set 5-1/2" CIBP @ 4700' + /-, load hole w/ 2% KCI water. TOOH
- 5. Pressure test entire casing string to 1000 psi for 10 minutes. Latest Bradenhead test indicates leak on intermediate casing. If PT does not hold, RU wireline, run GR-CBL-CCL from 4700' to surface under as much pressure as possible (up to 1000 psi surface pressure). Consult engineering in designing squeeze procedure.
- 6. PU 5 1/2" packer on 2 3/8" workstring, TIH and isolate and identify casing leaks. Complete all squeeze cementing operations. WOC recommended time. Drill out cement. Pressure test to 1000 psi. If casing integrity still not sound, identify leaks, & engineering will recommend squeeze procedure & modify work as necessary.

8. When squeeze cementing & casing repair is complete, PU 4-3/4" bit, float, six (6) 3-1/8" drill collars & 2-3/8" 4.7# J-55 EUE workstring drill out drill out CIBP @ 4700'. Clean out to PBTD @ 5409'. TOOH, lay down drill collars and bit, RIH w/ 172 jts. of 2-3/8" tbg. Land tubing @5378'. ND BOP NU WH. Return well to production. Produce well for 90-120 days. SI well & perform 21 day build-up test prior to Menefee pay add.

#### Menefee PayAdd/Stimulation:

- MIRU. Record and report SI pressures on tubing, casing, & bradenhead. Lay blowdown line. Blow down casing & tubing. Kill well w/ 2% KCl down tubing. ND WH, NU BOP.
- 2. TOOH, rabbit, & strap 172 joints 2-3/8" tubing (from 5378', tally attached). Visually inspect tubing, note any scale in tubing. Replace any damaged joints.
- 3. PU 4-3/4" bit and casing scraper, float, six (6) 3-1/8" drill collars & 2-3/8" 4.7# J-55 EUE workstring. Clean out w/ gas to 5350' +/-. Load hole w/ 20 bbls 2% Kcl. TOOH with bit & collars.
- RU TIH & wireline set CIBP @ 5160' + /- RIH w/ GR-CCL log from 5160' to 3160'. 4.
- TIH w/ 5-1/2" FB PKR on 2-3/8" tbg to CIBP @ 5160'. Set PKR above CIBP, PT CIBP to 5. 3400 psi. Spot 250 gallons inhibited 15% HCl acid across Menefee @ 5140'. TOOH.
- 6. RU wireline under packoff. Perforate Menefee top-down in acid @ the following depths with 4" HSC gun w/ 19g charges (0.43" hole), 1 SPF @ 120 degree phasing.

4944' - 4954'	10 ft	10	holes
4980' - 4994'	14 ft	14	holes
5054' - 5058'	4 ft	4	holes
5128′ - 5132′	4 ft	4	holes
(32 total holes	, 188' of interval)		

- 7.
- PU 5-1/2" FB PKR, 1.81" profile nipple, 4 its of 2-3/8" 4.7# N-80 tubing, 2-3/8" x 2-7/8" buttress changeover, 2.25" profile nipple, and 2-7/8" 8.7# N-80 buttress frac string.. Set PKR @ 4860' +\- (perfs f/ 4942' - 5132'). NOTE: (Perfs in backside from 4734' to 4842')
- 8. RU stimulation company. Pressure test surface lines to 7500 psi. Max surface treating pressure = 6500 psi. Max static surface pressure = 3800 psi. Prepare to break down Menefee w/ 500 gals inhibited 15% HCl acid and 64 7/8" 1.3 s.g ball sealers. Attempt to achieve 20 BPM on breakdown, go higher if possible. Release pressure, RD stimulation company. Release PKR & TIH knocking balls below bottom perforation. TOOH.
- 9. PU 5-1/2" packer system on 2-7/8" tbg. Zone isolation system will cover existing Cliffhouse perforations f/ 4734'- 4842'. Upper packer to be set @ 4700' + /-, lower packer @ 4860'+/-, with 6 jts (+/- 160') of 2-3/8" 4.7# N-80 tbg in between packers. Run 4 jts 2-3/8" tbg above top packer, change over to 2-7/8".
- RU stimulation company. Pressure test surface lines to 7500 psi. Maximum STP = 6500 11 psi. Max static surface pressure = 3800 psi. Hold 500 psi on annulus. Fracture

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stimulate the Menefee w/ 75,000# 20/40 Arizona sand in 2% KCI slickwater w/30% N2 (no foamer) to aid flowback. Sand will be traced with Ir-192. See attached frac schedule for details. (5 frac tanks needed) Rig down frac company, flow well back on 1/4" choke as needed to release packer.

- 12. Release PKR & TOOH laying down 2-7/8" N-80 tubing. Change out rams to 2-3/8".
- 13. TIH w/ 4-3/4" bit on 2-3/8" tubing and clean out to CIBP @ 5160' + /-. Drill CIBP, CO to PBTD @ 5409' + /-. Clean up to +/- 5 BPH and trace to no sand. Obtain final MV pitot gauge. TOOH.
- 14. RU wireline under packoff. Run afterfrac across the Mesa Verde interval. RD wireline.
- 15. Prepare to run production tubing string as follows for Mesaverde: expendable check, one joint 2-3/8" tubing, 1.81" 'Seating' nipple, and remaining tubing. Rabbit tubing while TIH. Land tubing @ 5378'.
- 16. ND BOP, NU WH. Pump off expendable check and flow well up tubing obtain Mesaverde production gauge. RD & release rig to next location.

Concur:	Northeast Basin Team Leader
Approved:	Drilling Superintendent

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SBD

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## Recommended Vendors:

Stimulation Cased Hole Services	Depends on Rig	325-3545
Engineering	S.B. Daves	564-1627-pager 326-9736-work 326-5228-home
,	T. D. Stice	326-8036-pager 326-9812-work 327-7164-home
Frac Consultants	Mark Byars	327-8470-pager 320-0349-mobile 327-0096-home
	Mike Martinez	599-7429-pager 860-7518-mobile 326-4861-home

#### PERTINENT DATA SHEET

#### EPNG COM D #5

Location: 1550' FSL, 1500' FEL

Unit K, Section 36, T30N, R8W

San Juan County, New Mexico

Field: Blanco Mesaverde

Spud Date: 11-08-56

Completion Date: 12-12-56

. . . . . . . .

TD: 5435'
PBTD: 5409'

Elevation:

<u>LAT:</u>

DP#:

GWI:

NRI:

LONG:

6201' GR

49745A

75.605%

64.449%

36° 45' 55"

107° 37' 50"

Casing Record:

Cement Top Weight & Grade Depth Set Sxs Cmt **Hole Size** Casing Size 162' 150 (177 FT3) surface 10-3/4" 32.75#, ARMCO SPIRAL WELD 1555' (TS) 3113' 300 (360 FT3) 7-5/8" 26.4#, J-55 15.5#, J-55 5430' 300 (360 FT3) 2790' (TS) 5-1/2"

**Tubing Record:** 

 Tubing Size
 Weight & Grade
 Depth Set
 BHA

 2-3/8"
 4.7#, J-55
 5378'

Formation Tops:

Pictured Cliffs 3015' Menefee 4847' Ojo Alamo 1970' Point Lookout 5165' Kirtland Lewis 3162' 2094' 5365' Fruitland 2696' Cliffhouse 4740' Mancos

#### Logging Record:

Gamma Ray, Neutron, Tracer, Temp Survey

#### Stimulation:

Perfs: 4734-4750', 4770-4784', 4796-4816', 4828-4842', 5166-5180', 5194-5206', 5226-5238', 5263-5280'

5310-5324' (4 SPF) - Frac'd w/70,000# sand & 94,600 gai water

#### Workover History:

07-31-80: MIRU. Killed well & installed BOP. Pulled tubing & laid down. Ran 172 jts class A 2-3/8"

EUE (53.68.16'). Set @ 5378.16'

#### **Production History:**

Latest Deliverability

-0- MCFD

-0- BOPD

Initial Deliverability

8048 MCFD AOF

ISITP: 1020

ISICP: 1039

4073 MMCF 7153 BO

Bradenhead pressure = 0 psi

Production casing = 346 psi

Intermediate casing = 348 psi

Tubing pressure = 350 psi

#### Transporter:

Cums:

Oil/Condensate: Giant

Gas: El Paso

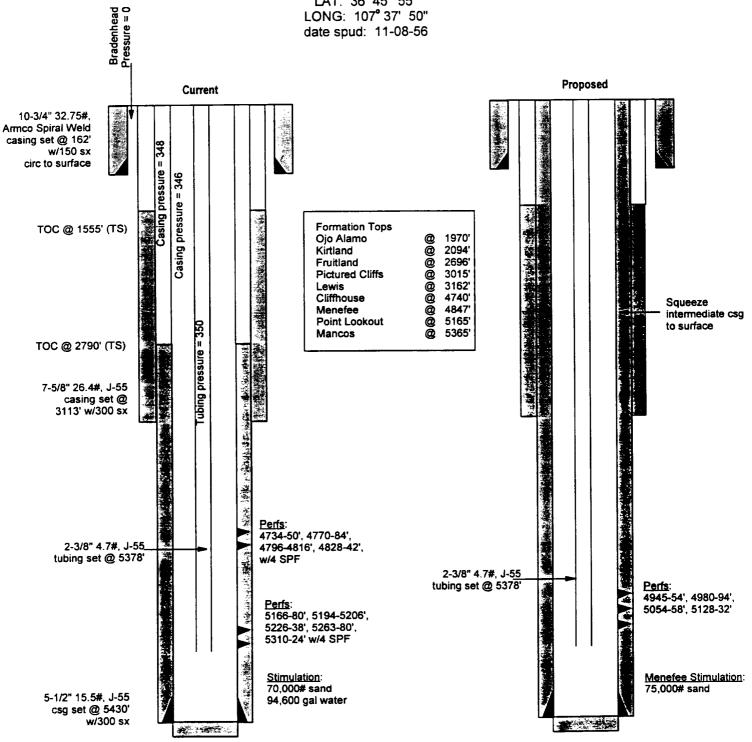
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## **EPNG Com D#5**

#### Blanco Mesaverde

Unit K, Section 36, T30N, R8W Rio Arriba County, NM Elevation: 6201' GR LAT: 36° 45' 55"

LONG: 107° 37' 50" date spud: 11-08-56



TD: 5435' PBTD: 5409

TD: 5435' PBTD: 5409'