

submitted in lieu of Form 3160-5

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells

1. Type of Well
GAS

~~CONFIDENTIAL~~

2. Name of Operator
MERIDIAN OIL

3. Address & Phone No. of Operator
PC Box 4289, Farmington, NM 87499 (505) 326-9700

4. Location of Well, Footage, Sec., T, R, M
990' FNL, 790' FEL, Sec. 9, T-25-N, R-3-W, NMPM

5. Lease Number
SF-079609
6. If Indian, All. or
Tribe Name
7. Unit Agreement Name
8. Well Name & Number
McCroden A #9
9. API Well No.
30-039-24120
10. Field and Pool
Blanco Mesaverde
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

<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other - Pay add	

13. Describe Proposed or Completed Operations

It is intended to add pay to the by passed Mesaverde intervals according to the attached procedure and wellbore diagram.

RECEIVED
BY JUN 27 1995
OK FOR DEL
L-103

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

Signed [Signature] (CAN9) Title Regulatory Affairs Date 6/8/95

(This space for Federal or State Office use)
APPROVED BY [Signature] Title Chief Lands and Mineral Resources Date JUN 26 1995
CONDITION OF APPROVAL, if any:

Pertinent Data Sheet - McCroden A #9

Location: 990' FNL, 790' FEL, Unit A, Section 9, T-25-N, R-03-W; Rio Arriba County, NM
Lat. 36-25-1, Long. 107-8-36

Current Field: Blanco Mesaverde

Spud: 5/12/87

Completed: 6/22/87

Elevation: 7164' @ GL
7176' @ KB

TD/PBTD: 6125'/6082'

Casing Record:

<u>Hole Size</u>	<u>Casing Size</u>	<u>Weight/Grade</u>	<u>Depth Set</u>	<u>Cmt Vol./Top</u>
12-1/4"	9-5/8"	40#/K-55	461'	275 sks/surface
8-3/4"	7"	23#/K-55	3982'	475 sks/surface

Liner Record:

<u>Hole Size</u>	<u>Liner Size</u>	<u>Weight/Grade</u>	<u>Depth (T/B)</u>	<u>Cmt Vol.</u>
6-1/4"	4-1/2"	10.5#/K-55	3763'/6215'	295 sks

Tubing Record:

<u>Size</u>	<u>Weight/Grade</u>	<u>Depth Set/Jts.</u>	<u>Other</u>	<u>Depth</u>
2-3/8"	4.7#/J-55	5998'/244 jts		
2-3/8"			Seating Nipple	5978'

Formation Tops:

Ojo Alamo	3398' *
Kirtland	3456' *
Fruitland	3544' *
Pictured Cliffs	3686' *
Lewis	3779' *
Cliffhouse	5340'
Menefee	5456'
Point Lookout	5824'

* Estimate from offset logs

Logging Record: IEL - GR, CDL - SNL - GR

Present Completion: Point Lookout
Perforations: 5830' - 6054' (selective)

McCroden A #9
Unit A, Sect. 9, T25N, R03W
Mesaverde Pay Add

Inspect location and install and/or test rig anchors. Install 1 -400 bbl rig tank.
Comply with all BLM, NMOCD, Forestry, and MOI rules and regulations. **BE SAFE**

*******All vendors/service companies on location will be responsible for protection of the environment, any questions call _____ at _____ - _____.*******

1.0 Pull Production Tubing and Set BP Above Point Lookout

- 1.1 Hold Safety Meeting. MIRU. Place fire and safety equipment in easily accessible locations. NU relief line and blooie line to laydown flow tank. Obtain and record all wellhead pressures.
- 1.2 Blow down tubing. If tubing will not blow down, kill well with 2% KCl water. ND WH, NU BOP. PBSD is 6,082'.
- 1.3 TOH with 5,998' of 2-3/8" 4.7# tubing. Visually inspect and tally tubing on TOH.
- 1.4 MIRU electric line unit. RIH with 7" 23# gauge ring to TOL @ $\pm 3,763'$ to check pipe condition. POOH. RIH with 4-1/2" 10.5# gauge ring to 5,820' (10' above existing Point Lookout perfs). POOH. RIH with 4-1/2" RBP and set same at 5,820'. POOH and RD electric line unit.

2.0 Test Casing and Run Bond Log

- 2.1 Load casing with 2% KCl water and test casing and RBP to 3,000 psi surface pressure (DO NOT exceed 3,500 psi = 80% of burst rating of 7" 23# K-55 csg). If leak is detected, contact production engineer for procedure to repair casing.
- 2.2 RU electric line unit. Run GR/CBL/CCL inside 4-1/2" liner from bridge plug to TOL with 500 psi surface pressure. POOH and re-dress tool for 7" casing.
- 2.3 Re-run GR/CBL/CCL inside 7" casing from TOL ($\pm 3,763'$) to 3,200' with 500 psi surface pressure. Top of cement inside liner must be at least 5,290' (50' above top shot) to continue. Top of cement in 7" must be at least $\pm 3,398'$ (cover the Ojo Alamo) to continue. If remedial cementing is necessary, contact production engineer for squeeze procedure.

- 2.3 POOH and RDMO electric line unit. Send copy of bond log to production engineer and drilling superintendent for evaluation.

3.0 Perforate and Stimulate the Menefee

- 3.1 TIH w/ 2-3/8" tubing and spot 7.5% HCl acid across the Menefee interval. TOH w/ tubing.
- 3.2 RU electric line unit. RIH and select-fire perforate the following intervals from top down w/ 3-1/8" HSC -3125-306. 12 gram Owen charges 0.31" holes w/ 12.02 " penetration. 2 spf, 90° phasing:

5,577' - 5,792'. (42 holes)

Actual select fire settings will be provided to the perforators prior to moving on the well.

POOH and RD electric line unit.

- 3.3 TIH w/ one stand 2-3/8" tubing and 7" packer. RU stimulation company and prepare to breakdown and balloff with acid. Hold safety meeting and test surface treating lines to 4,000 psi. Pump 1,000 gals. of 7.5% HCl Acid @ 8-10 bbl/min. Drop a total of 70. 7/8" diameter, 1.3 specific gravity RCN ball sealers spaced evenly throughout the job. Record injection rate and all breakdown pressures throughout job. **Maximum treating pressure is 3,000 psi.**
- 3.4 RD stimulation company and TOH w/ 2-3/8" tubing and packer. RU electric line unit and RIH with 4-1/2" gauge ring and junk basket and knock balls off perforations. POOH and record ball recovery and # of hits. RD electric line unit.
- 3.5 TIH w/ one stand 2-3/8" tubing and 7" packer. RU stimulation company. Hold safety meeting and test surface treating lines to 4,000 psi. **Maximum treating pressure is 3,000 psi.** Fracture stimulate the Menefee interval according to attached procedure. Immediately upon completion of the stimulation, shut-in well to keep in static condition. TOH w/ tubing and packer.
- 3.6 RU electric line unit. RIH with 4-1/2" RBP and set same at 5,530'. Pressure test bridge plug to 3,000 psi for 15 minutes. RD electric line unit.

4.0 Perforate and Stimulate Cliffhouse

- 4.1 TIH w/ 2-3/8" tubing and spot 7.5% HCl acid across the Cliffhouse interval. TOH w/ tubing.
- 4.2 RU electric line unit. RIH and select-fire perforate the following intervals from top down w/ 3-1/8" HSC -3125-306, 12 gram Owen charges 0.31" holes w/ 12.02 " penetration, 2 spf, 90° phasing:

5,340' - 5,512' selective (144 holes)

POOH and RD electric line unit.

- 4.3 TIH w/ one stand 2-3/8" tubing and packer. RU stimulation company and prepare to breakdown and balloff with acid. Hold safety meeting and test surface treating lines to 4,000 psi. Pump 2,000 gals. of 7.5% HCl Acid @ 8-10 bbl/min. Drop a total of 200, 7/8" diameter, 1.3 specific gravity RCN ball sealers spaced evenly throughout the job. Record injection rate and all breakdown pressures throughout job. **Maximum treating pressure is 3,000 psi.**
- 4.4 RD stimulation company and TOH w/ 2-3/8" tubing and packer. RU electric line unit and RIH with 4-1/2" gauge ring and junk basket and knock balls off perforations. POOH and recrd ball recovery and # of hits. RD electric line unit.
- 4.5 TIH w/ one stand 2-3/8" tubing and 7" packer. RU stimulation company. Hold safety meeting and test surface treating lines to 4,000 psi. **Maximum treating pressure is 3,000 psi.** Fracture stimulate the Cliffhouse interval according to attached procedure. Immediately upon completion of the stimulation, flow back well until it flow rate is low enough to come out of the hole. TOH w/ tubing and packer.

5.0 Clean Out, Test Intervals, and Land Tubing

- 5.1 Stage in the hole with retrieving head and 2-3/8" tubing and clean out to RBP @ 5,530' with air mist then pull above perforations and flow naturally. Continue this cycle until sand production and water production are minimal. **Obtain flow gauge.** Latch on to the RBP @ 5,530', TOH, and LD RBP.

McCroden A #9
Completion Procedure
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- 5.2 TIH w/ retrieving head and 2-3/8" tubing and continue cleaning out to RBP @ 5,820' with air mist then pull above perforations and flow naturally. Continue this cycle until sand production and water production are minimal. **Obtain flow gauge.** Latch on to the RBP @ 5,820'. TOH. and LD RBP.
- 5.3 TIH with one joint 2-3/8" tubing, seating nipple and expendable check valve, (1.810" ID) and 2-3/8" production tubing for the MV, land at $\pm 6,000'$. Rabbit production tubing and record final tubing tally for well file. Blow check and clean out to PBTD @ 6,082'. **Obtain final gauge of entire Mesaverde interval.** ND BOP and NU WH. Rig down and release rig.

Approved: _____
Drilling Superintendent

Suggested Vendors/Contacts:

Water haul:	Chief Transport	325-2396
Wireline:	Blue Jet	325-5584
Tubing:	MOI, District Tools	326-9826
Stimulation:	DS	325-5096
Packer/RBP:	Mountain States	326-5141
Rig Supervisor:	_____	_____
Production Oper.:	Bruce Voiles	326-9571
Engineering:	Curtis Newstrom	326-9710 w 327-0722 h

McCroden A #9

UNIT A, SEC. 9, T-25-N, R-03-W, RIO ARRIBA COUNTY, NM
35-25-1 Lat, 107-8-36 Long.
Mesaverde Pay Add

