

submitted in lieu of Form 3160-5

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED  
BLM

06 JUN 26 PM 1:02

Sundry Notices and Reports on Wells

070 FARMINGTON, NM

1. Type of Well  
GAS

Lease Number  
SF-077648

6. If Indian, All. or  
Tribe Name

7. Unit Agreement Name

2. Name of Operator  
MERIDIAN OIL

8. Well Name & Number  
Davis #10

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

9. API Well No.  
30-045-10946

4. Location of Well, Footage, Sec., T, R, M  
1000' FNL, 1600' FWL, Sec.12, T-31-N, R-12-W, NMPM

10. Field and Pool  
Blanco MV/Basin DK  
11. County and State  
San Juan Co, NM

C

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

Type of Submission

Type of Action

☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment

☐ Abandonment  
☒ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☐ Other -  
☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut off  
☐ Conversion to Injection

13. Describe Proposed or Completed Operations

It is intended to recompleate the subject well in the Mesaverde formation. The well will then be commingled with the Dakota formation. A down-hole commingling order will be applied for with the New Mexico Oil Conservation Division.

REC  
JUN 26 1996  
OIL CON. DIV.  
DIST. 3

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

Signed [Signature] (TJM4) Title Regulatory Administrator Date 6/25/96

(This space for Federal or State Office use)

APPROVED BY \_\_\_\_\_ Title \_\_\_\_\_

CONDITION OF APPROVAL, if any:

Date 6/25/96

1996

NMOCD

District I  
PO Box 1788, Hobbs, NM 88241-1788  
District II  
PO Drawer DD, Artesia, NM 88211-0719  
District III  
1000 Rio Hondo Rd., Aztec, NM 87410  
District IV  
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
PO Box 2088  
Santa Fe, NM 87504-2088

Form C-102  
Revised February 21, 1994  
Instructions on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-045-10946		Pool Code 72319/71599		Pool Name Blanco Mesaverde/Basin Dakota	
Property Code 18509		Property Name Davis			Well Number 10
OGRID No. 14538		Operator Name MERIDIAN OIL INC.			Elevation 6382'

10 Surface Location

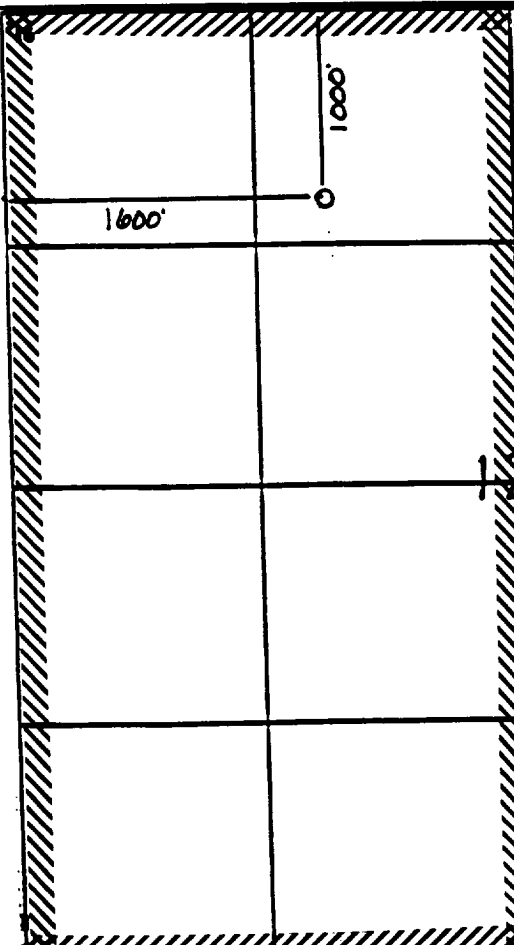
UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
C	12	31 N	12 W		1000	North	1600	West	S.J.

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
W/276.90 W/276.90									

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	Not resurveyed, prepared from a plat dated 11-15-63 by Ernest V. Echohawk.	<b>17 OPERATOR CERTIFICATION</b> I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief	
		Signature <i>Peggy Bradfield</i> Peggy Bradfield	
		Printed Name Regulatory Administrator	
		Title 6-25-96 Date	
		<b>18 SURVEYOR CERTIFICATION</b> I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.	
		6-24-96 Date of Survey	
		Signature <i>NEAL C. EDWARDS</i> NEAL C. EDWARDS	
		Certificate Number 6857	

**Davis #10(Mesaverde/Dakota)**  
**Mesaverde Recompletion/commingle**  
**Section 12, T31N-R12W**  
**San Juan County, New Mexico**  
**Lat. 36.917252 Long 108.049957**

**\* COMPLETION PROCEDURE (4/23/96) \***

**Basic Equipment Requirements:**

4 frac tanks & 1 rig tank, 60' of 2-7/8" fracstring, 4-1/2" fullbore stimulation packer, 4-1/2" packer, immediate flowback manifold, 4 additional joints of 2-3/8" work string/production tbg., 4-1/2" Mountain States Scab Liner Packer (SLP), 25-27 joints of 2-3/8" scab liner tubing, 2-XO sub's from scab liner to 2-3/8" tubing

**Prior to moving rig on location. Pump ~80 bbls down the backside and press. test tbg to 1000#.**

1. Hold safety meeting. MIRU. Comply with all MOI, BLM and NMOCDD rules and regulations. Install 4 frac tanks and 1x400 bbl rig tank. Fill each frac tank with 3#s of biocide and filtered (25 micron) 1% KCl water.
2. Obtain and record all wellhead pressures. ND WH, NU BOP. Unsting tbg from cmt ret. @ 7317'. TOH w/ 2-3/8" tubing. Replace bad tubing as necessary.
3. PU a 4-1/2" 10.5# casing scraper on 2-3/8" tbg. TIH to cmt ret. @ 7317'. TOH.
4. RU wireline. Run CBL/GR from 5600' to Surface. **Send copy of log into the office so perforations can be adjusted if necessary.**
5. TIH with a 4-1/2" packer and set packer @ 4950'. Pressure test csg to 3500#. TOH to 4200' and set packer. Pressure test annulus to 3500#. TOH.
6. Perforate the Mesaverde interval using 3-1/8" csg gun w/ 12 gram shaped charges and 0.31" diameter holes, 1 SPF. **Perforations may be adjusted to the CBL.** Inspect guns to ensure all perforations fired. RD wireline.

**5025' 5035' 5063' 5088' 5100' 5115' 5220' 5233' 5244' 5253' 5280'**  
**5299' 5330' 5344' 5360' 5396' 5445' 5457' 5489' 5513' 5537'**  
**A total of 21 holes.**

7. TIH with 2 joints of 2-7/8" tbg and 4-1/2" packer. Set packer @ 60 and establish injection rate into perforations with the rig pump. **Do not go over 1000#.** TOH.
8. PU 4-1/2" Scab Liner Packer (SLP) w/ 25 jts (+/- 550') of 2-3/8" tbg between packers on 2-3/8" workstring and TIH (see attached information sheet). Set Scab Liner to overlap the existing squeeze perforations @ 4915' to 4516'. **Bottom packer element set @ 4950' and top element @ 4400' +/- 10'. TOOH**
9. PU 4-1/2" Fullbore Packer w/ 2 jts 2-7/8" tbg and TIH. Set pkr @ 60'. RU WSI flowback manifold w/ a 1/8" and 1/4" positive choke. RU Stimulation Company. Pressure test manifold and stimulation lines to 4500 psi.
10. Hold safety meeting. **Max allowable surface treating pressure is 3500 psi @ 25 Bbls/min.** Pressure test surface lines to 4500 psi. (1000 psi over maximum treating pressure but less than

the working pressure of the lines.) Stimulate the Mesaverde interval @ +/- 25 BPM w/ 30# XL gel and 6000 SCF/M N2, with 20/40 Arizona and 20/40 resin coated. 1500 gals of 15% HCL acid will precede the stimulation followed by a 10 bbl slug of water. Hold and monitor 500 psi on backside. 3#, 4# and 5# sand stages will be tagged w/ Ir-192. Flush w/ 1% KCL water and N2 to more accurately determine flush volume and help with sand fallout. Flush volume begins when sand concentration drops to 4-1/2 #/gal. Reduce rate during flush to determine if well will be on a vacuum. Under flush by 20 %. Shut in well immediately after completion and flowback within 1 minute on a 1/8" to 1/4" choke until well dies. Release Stimulation Crew to the house.

11. Flow back well immediately through 1/8" positive choke to reverse gravel pack. If well is not dead after 2 hours, slowly open well wide open until pressure falls to zero. Accurately record sand volume and gel/water coming back.
12. Bleed off pressure. Release packer, TOH.
13. PU 3-7/8" bit and 2-3/8" tbg and TIH. Clean out to 7317'. Obtain pitot gauge from Mesaverde after clean up. When sand returns are acceptable, DO cmt ret. @ 7317' and CO to 7660'.
14. When sand volumes are acceptable obtain pitot gauge and TOH.
15. RU wireline. Run after frac log.
16. TIH with one joint of 2-3/8", 4.7#, J-55 tubing w/ expendable check, an F-nipple, then the rest of the tubing. Land tubing at approximately 7640'.
17. ND BOP's, NU WH. Pump off expendable check. Run swab to FN. Obtain final pitot. RD and MOL. Return well to production.

Approval:

\_\_\_\_\_  
Drilling Superintendent

Approval:

\_\_\_\_\_  
Northwest Basin Team Leader

**Engineers -**

**Todd J. Mushovic**  
Office - (326-9584)  
Home - (324-0692)

**James A. Smith**  
Office - (326-9713)  
Home - (327-3061)  
Pager - (324-2420)

**Mary Ellen Lutey**  
Office - (599-4052)  
Home - (325-9387)  
Pager - (324-2671)

**Frac Consultants -**

**Mark Byars**  
Pager - (327-8470)  
Mobile - (320-0349)  
Home - (327-0096)

**Mike Martinez**  
Pager - (599-741)  
Mobile - (860-751)  
Home - (326-486)

**VENDORS:**

**CASED HOLE:**  
**STIMULATION:**  
**SCAB LINER:**  
**RA TAGGING:**  
**AFTER FRAC LOG:**  
**MANIFOLD:**

**SERVICE COMPANY**

Petro  
Halliburton  
Mountain States  
ProTechnics  
Petro  
WSI

**PHONE NUMBER**

326-6669  
325-3423  
326-5141  
326-7133  
326-6669  
327-3402

TJM

q:\area\ar45\1996proj\davis10\pro.doc

Pertinent Data Sheet

**DAVIS #10**

**Location:** Unit C NE/4 NW/4, Section 12, T31N, R12W, 1000' FNL. 1600' FWL,  
Lat. 36.917252, Long. -108.049957 by TDG  
San Juan County, NM

**Field:** Basin Dakota  
**KB:** N/A

**Elevation:** 6392' GL  
6401' DF

**TD:** 7678'  
**PBTD:** 7660'

**Spud Date:** 12-14-63

**Completed:** 01-25-64

**Lease No.:** SF 077648

**DP No:** 11609

**Prop. No:** 0020263

**Meridian W.I.:** 25.00%

**Trust W.I.:** 75.00%

**Meridian N.R.I.:** 21.75%

**Trust N.R.I.:** 65.25%

**Initial Potential:** AOF: 2514'  
SICP: 829'

**Casing/Liner Record:**

<u>Hole Size</u>	<u>Csg. Size</u>	<u>Wt. &amp; Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>Top/Cement</u>
12 1/4"	8 5/8"	24#	358'	250 sx	Cmt. did not circ.
7 7/8"	4 1/2"	70 jts. 10.5#	7672'	250 sx	6780' (T.S.)
		173 jts. 9.5#			

Float Collar @ 7640'.

2nd stage collar @ 5559', 125 sx cement, TOC @ 4960' (T.S.).

3rd stage collar @ 3161', 100 sx cement, TOC @ 2700' (T.S.).

**Tubing Record:**

<u>Hole Size</u>	<u>Wt. &amp; Grade</u>	<u>Depth Set</u>
2 3/8"	4.7# J-55	7320'

Cmt. Retainer @ 7317' (HOWCO) 2.75' compression.

**Formation Tops:**

Ojo Alamo:	1548'
Kirtland:	1618'
Fruitland:	2623'
Pictured Cliffs:	2951'
Massive Cliffhouse:	4549'
Menefee:	4780'
Massive Point Lookout:	5210'
Gallup:	6531'
Greenhorn:	7310'
Graneros:	7426'
Dakota:	7511'

**Logging Record:**

Induction-Electrical, TS, GR Correlation

**Stimulation:**

Perforated 7428'-7446, 7523'-7550, 7642'-7646' with 4SPF in 500 gallons of acid. Frac'd with 16,380 gallons of 1% CaCl water and 13,000# of 20-40 sand. Before sanding off. Max. pressure of 3600#. Refrac'd with 21,000 gallons of 1% CaCl water, 18,000# of 20-40 sand before sanding off. Max. pressure=3400#, AIR=30bpm.

**Workover History:**

07/76: Tagged bottom, TOH, ran junk basket to 7400', ran retainer; set @ 7348'. Ran stringer with 232 joints of 2 3/8" tubing and 29' of subs. Set with 12,000#. Xout valve on casing and tubing head.

07/85: TOH with tubing. Run casing scraper to cement retainer. Circ. out 20bbls of condensate. TOOH. Test cement retainer to 2500#. Isolated casing leaks @ 4915' (2bpm @ 700#), 2nd hole @ 4516' (1/2bpm @ 2400#). Set cement retainer @ 4800#. Squeeze hole @ 4915 with 130 sx. Final pressure=1500#. Squeezed 2nd hole with 10 sx. Drill out cement, test top hole to 1500#. D.O. cement retainer and cement. Bottom hole failed test. Resqueezed with 90 sx. Final pressure=2500#. D.O. cement and cement retainer. Tested hole to 1500#. Run casing scraper. C.O. to 7348'. Drilling out cement retainer @ 7348' and sand from 7575'-7660'. Set retainer @ 7317'. TIH with stinger and 232 joints of 2 3/8" tubing, land tubing @ 7320'.

# DAVIS #10

AS OF 4/24/1996

BASIN DAKOTA

1000' FNL, 1600' FWL

SEC 12, T31N, R12W, SAN JUAN COUNTY, NM

COMPLETED 1/25/64  
WORKOVER 7/85  
ELEVATION 6392' GL

OJO ALAMO @ 1548'

KIRTLAND @ 1618'

FRUITLAND @ 2623'

PICTURED CLIFFS @ 2951'

MASS. CLIFFHOUSE @ 4549'  
MENELEE @ 4780'

POINT LOOKOUT @ 5210'

GALLUP @ 6531'

GREENHORN @ 7310'

GRANEROS @ 7426'  
DAKOTA @ 7511'

12-1/4" HOLE

8-5/8" 24# CSG SET @ 358'  
CMT W/250 SX  
DID NOT CIRC CMT

7-7/8" HOLE

2-3/8" 4.7# J-55 TBG SET @ 7320'

TOC @ 2700' (TS)

STAGE COLLAR @ 3161'  
CMT W/100 SX

SQ @ 4516' W/10 SX

SQ @ 4915' W/130 SX  
RE-SQ W/90 SX

TOC @ 4960' (TS)

STAGE COLLAR @ 5559'  
CMT W/125 SX

TOC @ 6780' (TS)

HOWCO CMT RETAINER @ 7317'

PERF 7428'-7646'  
FRAC W/13,000# SAND & 16,380 GAL WATER  
RE-FRAC W/18,000# SAND & 21,000 GAL WATER

4-1/2" 10.5# (70 JTS) & 9.5# (173 JTS)  
CSG SET @ 7672'  
CMT W/250 SX

TD 7678'  
PBD 7660'