

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

Sundry Notices and Reports on Wells

1. Type of Well GAS	API # (assigned by OCD) 30-045-06129
	5. Lease Number E-1199-3
	6. State Oil&Gas Lease E-1199-3
2. Name of Operator MERIDIAN OIL	7. Lease Name/Unit Name Huerfanito Unit
	8. Well No. 86
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	9. Pool Name or Wildcat Blanco MV/Basin Dk
4. Location of Well, Footage, Sec., T, R, M 1750' FSL, 1090' FWL Sec.36, T-27-N, R-9-W, NMPM, San Juan County	10. Elevation:

Type of Submission

☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment

Type of Action

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

13. Describe Proposed or Completed Operations

It is intended to open and stimulate additional Mesa Verde pay and commingle the Mesa Verde and Dakota formations in this current Mesa Verde/Dakota dual well per the attached procedure.

RECEIVED
JUN 15 1994
OIL CON. DIV.
DIST. 3

SIGNATURE *Ernie Busch* (MP) Regulatory Affairs June 13, 1994

(This space for State Use)

Approved by

ORIGINAL SIGNED BY ERNIE BUSCH

Title DEPUTY OIL & GAS INSPECTOR, DIST. 43

Date JUN 15 1994

HUERFANITO UNIT #86 MV/DK
Recommended Procedure
Open Lower MV & Commingle w/DK
Lat.-Long. = 36.528931 - 107.745209
L 27 9

36

1. Comply to all NMOC, BLM, & MOI, rules & regulations. MOL and RU completion rig. Blow well down. NU 7-1/16" 900 series BOP with flow tee and stripping head. Test operation of rams. NU blooie line and 2-7/8" relief line.
2. TOH W/136 Jts 1-1/4" tbg & lay down. Set blanking plug in 2-3/8" tbg in S.N. @ 6550' & pressure test to 3000 psi. TOH w/213 Jts 2-3/8" tbg & Baker Model "F" seal assembly @ 4610'.
3. Run 5-1/2" "CJ" milling tool on tested 2-3/8" tbg & mill (w/air/mist) & retrieve Baker Model "F" pkr @ 4610'. TOH.
4. MI Wireline Truck. Set 5-1/2" ret BP @ 4800' & top w/2 sx sand. Run CBL from 4800' to top of cmt and pulsed neutron log from 4800'-3500' & 3200'-2900'. Coorelate to open hole induction log. Hot-shot logs to Production Engr Dept. Lower Point Lookout perfs will be picked at this time.
5. If unsufficient cmt is across lower Point Lookout 4600'-4680', perf 2 sq holes @ 4690'. W/5-1/2" pkr @ 4450' on 2-3/8" tbg, sq w/100 sx Cl "B" w/2% CACL2 & 3#/SX HI-SEAL for a yield of 1.21 cf/sx (15.6 #/gal). Unseat pkr, reverse out (if possible), reset & repressure. WOC. TOH.
6. TIH w/4-3/4" bit on 2-3/8" tbg & drill out cmt to 4750' w/air/mist. TOH. Run CBL from 4750' to top cmt. Resq if necessary.
7. When sufficient cmt is across proposed lower Point Lookout perfs, perf w/ 2 spf. Perfs will be a total of about 25' (50 holes) from 4600'-80'. Perf w/Tolson jets.
8. Spot and fill 5 - 400 bbl. frac tanks with 2% KCL water. Filter all water to 25 microns. Four tanks for gel and one for breakdown. Usable water required for frac is 1,230 bbls.
9. Run 5-1/2" pkr on 3-1/2" 9.3# P-110 w/shaved collars (4.25" O.D. 2.992" I.D.) rental frac string & set @ 4450'. Breakdown & attempt to balloff w/2000 gal 15% HCL acid & 125 perf balls. Acid to contain 1 gal/1000 gals water of F75N (surfactant) & 10#/1000 of L58 (corrosion inhibitor). Maximum pressure = 4500 psi. Record breakdown pressures. Lower pkr to 4700' to knock off perf balls. Reset pkr @ 4550'.

HUERFANITO UNIT #86 MV/DK WORKOVER PROCEDURE
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10. W/backside open, fracture treat well down rental frac string with 50,000 gals. of 20# gel water and 40,000# Arizona sand. Pump at 35 BPM. Sand to be tagged with 0.4 mCi/1000# Ir-192 tracer. Max. pressure (@ 35 BPM) is 6000 psi and estimated treating pressure is 2500 psi. Frac string friction @ 35 BPM is 1574 psi. Treat per the following schedule:

<u>Stage</u>	<u>Liquid (Gals.)</u>	<u>Sand Vol. (lbs.)</u>
Pad	10,000	----
0.5 ppg	10,000	5,000
1.0 ppg	20,000	20,000
1.5 ppg	10,000	15,000
Flush	<u>(1,660)</u>	<u>----</u>
Totals	50,000	40,000#

Cut flush by 25-30% if frac gradient is less than static water.
Treat frac fluid with the following additives per 1000 gallons:

- * 4.6 gal J877 (Base 20# Guar Gel)
- * 1.0 gal. F75N (Non-ionic Surfactant)
- * 1.0# J134 (Enzyme Breaker)
- * 0.35# M275 (Bacteriacide)

11. Open well through choke manifold and monitor flow. Flow @ 20 bbl/hr, or less if sand is observed.
12. When well stops flowing, TOH w/frac string & pkr & lay down. TIH w/notched collar on 2-3/8" tbg & C.O. w/air/mist to BP @ 4800'. Take pitot gauges when possible.
13. When wellbore is sufficiently clean, TOH and run after frac gamma-ray log from 4800'-4200'.
14. TIH w/retrieving tool on 2-3/8" tbg and again CO to 4800'. When wellbore is sufficiently clean, retrieve BP & TOH.
15. TIH w/4-3/4" bit on 2-3/8" tbg & CO to 6600' w/air/mist. Take pitot gauges when possible. TOH.
16. TIH with 2-3/8" production tbg with standard seating nipple one joint off bottom to 6600' and again blow well clean. When well is clean, land tbg @ 6500'. Take final pitot gauges, water & oil samples, and gas samples.
17. ND BOP and NU wellhead. Replace any bad valves on wellhead. Rig down & release rig.

HUERFANITO UNIT #86 MV/DK WORKOVER PROCEDURE
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Approved: _____
J. A. Howieson

VENDORS:

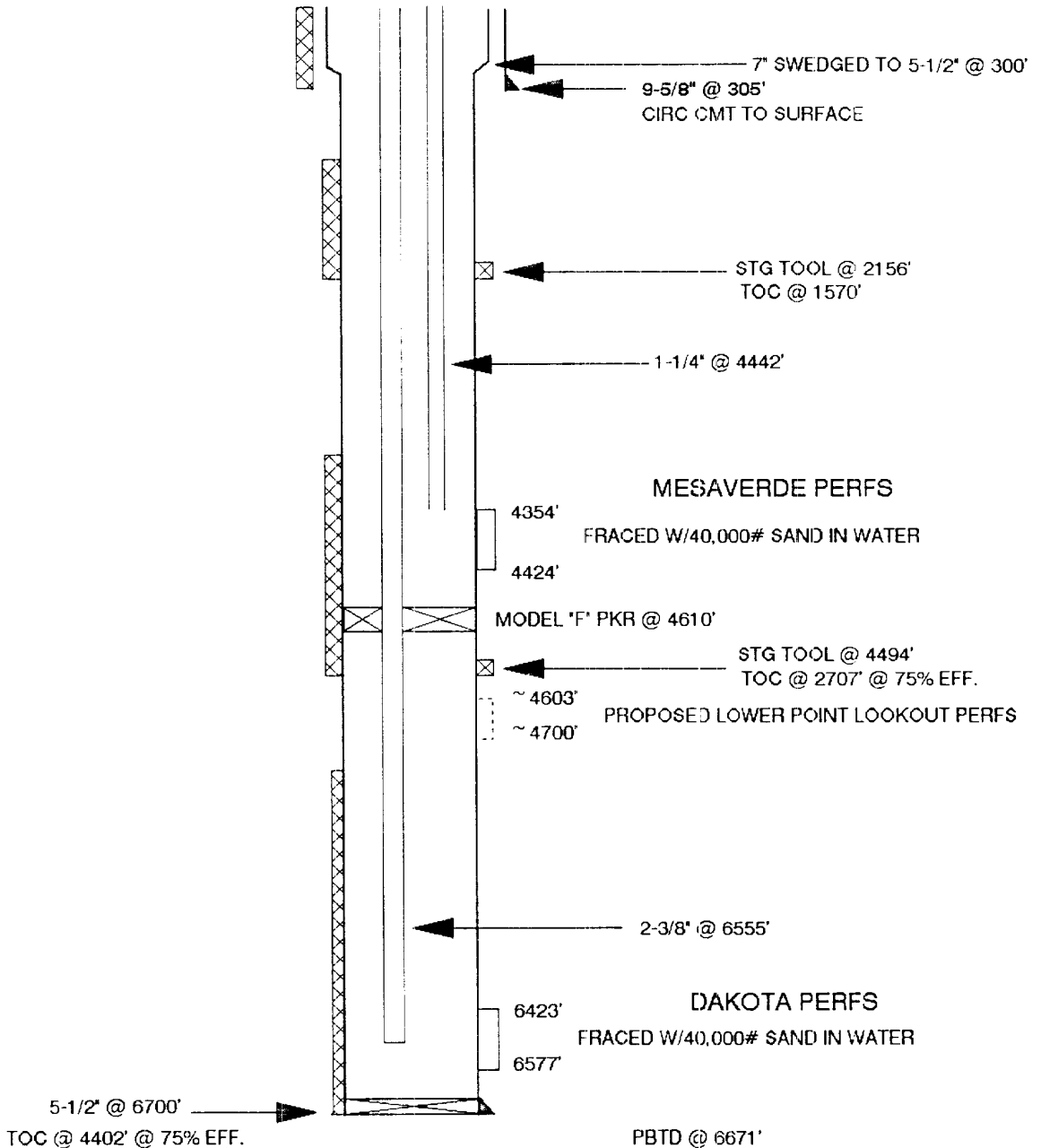
Wireline:	Blue Jet	325-5584
Frac & Acid:	Western	327-6222
RA Tagging:	Pro-Technics	326-7133

PMP

HUERFANITO UNIT #86 MV/DK

UNIT L SECTION 36 T27N R9W
SAN JUAN COUNTY, NEW MEXICO

PRESENT



Pertinent Data Sheet - HUERFANITO UNIT #86 MV/DK

Location: 1750' FSL 1090' FWL SEC. 36 T27N R09W, SAN JUAN COUNTY, N.M.

Field: Basin Dakota
Blanco Mesaverde

Elevation: 6213' TD: 6700'
14' KB PSTD: 6671'

Prop#: MV:0023403 DK:0079705

Lease: State: E-1199-3

DP#: DK=30051 MV=30025

GWI: MV=87.85% DK=95.14%

NRI: MV=73.20% DK=77.48%

Completed: 7-2-65

Initial Potential:

DK: AOF=5556 MCF/D, Q=4863 MCF/D, SICP=2085 PSI

MV: AOF=6423 MCF/D, Q=5272 MCF/D, SICP=1130 PSI

Casing Record:

Hole Size	Csg. Size	Wt. & Grade	Depth Set	Cement	Top/Cmt
15"	9-5/8"	32.3# H-40	305'	250 sx	Circ. Cmt
7-7/8"	7"	23# J-55	(300')		
7-7/8"	5-1/2" 17 & 15.5#	J-55	6700'	450 sx	4402'@ 75% Eff.
		DV Tool @	4494'	350 sx	2707'@ 75% Eff.
		DV Tool @	2156'	100 sx	1570' - Survey

Tubing Record: 2-3/8" 4.7# J-55 6555' 213 Jts S.N. @ 6550'
Baker Model "F" Pkr @ 4610'
1-1/4" 2.3# JCW-55 4442' 136 Jts

Formation Tops:

Ojo Alamo	1230'	Gallup	5502'
Kirtland	1328'	Greenhorn	6324'
Fruitland	1896'	Graneros	6376'
Pictured Cliffs	2036'	Dakota	6486'
Cliffhouse	3591'		
Point Lookout	4347'		

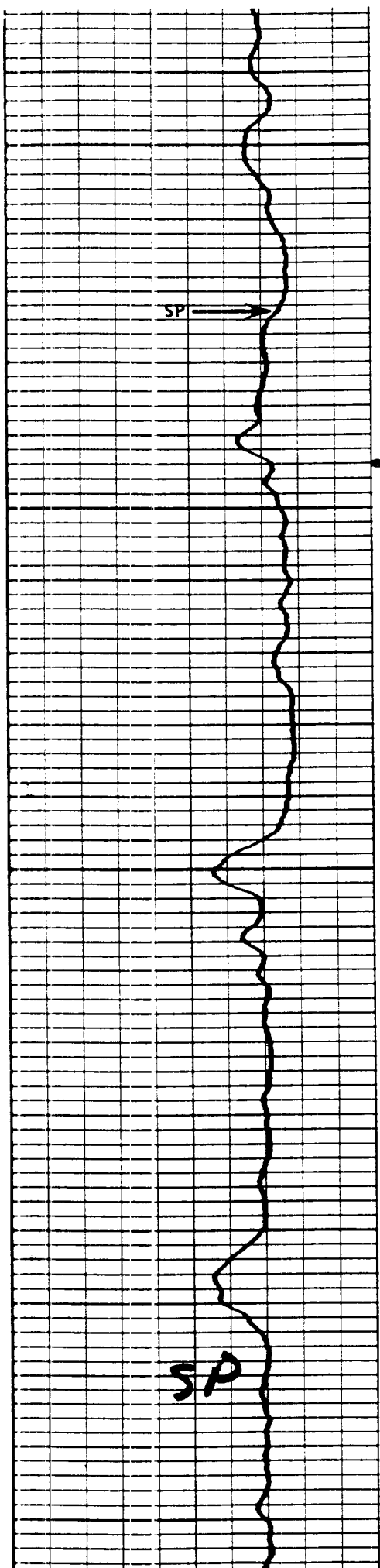
Logging Record: Induction, Acoustic Velocity

Stimulation: Perf DK @ 6569'-77', 6517'-25', 6489'-97', 6423'-31', w/2 & fraced w/40 000# sand in water.
Perf MV @ 4416'-24', 4398'-4406', 4354'-62', w/2 sfp & fraced w/40,000# sand in water.

Workover History: 11-25-69: Pulled 1-1/4" & 2-3/8" tbgs & replaced 2-3/8" jt w/hole (5 jts above pkr). Reran tbgs & seal assembly.

Production History: MV 1st delivered on 2-1-66. Cumulative: MV=2501 MMCF & 12,217 BO. DK=1578 MMCF & 11,088 BO. Tbg=??? psi. Csg=??? psi. Bradenhead=? psi. Line=??? psi.

Pipeline: EPNG

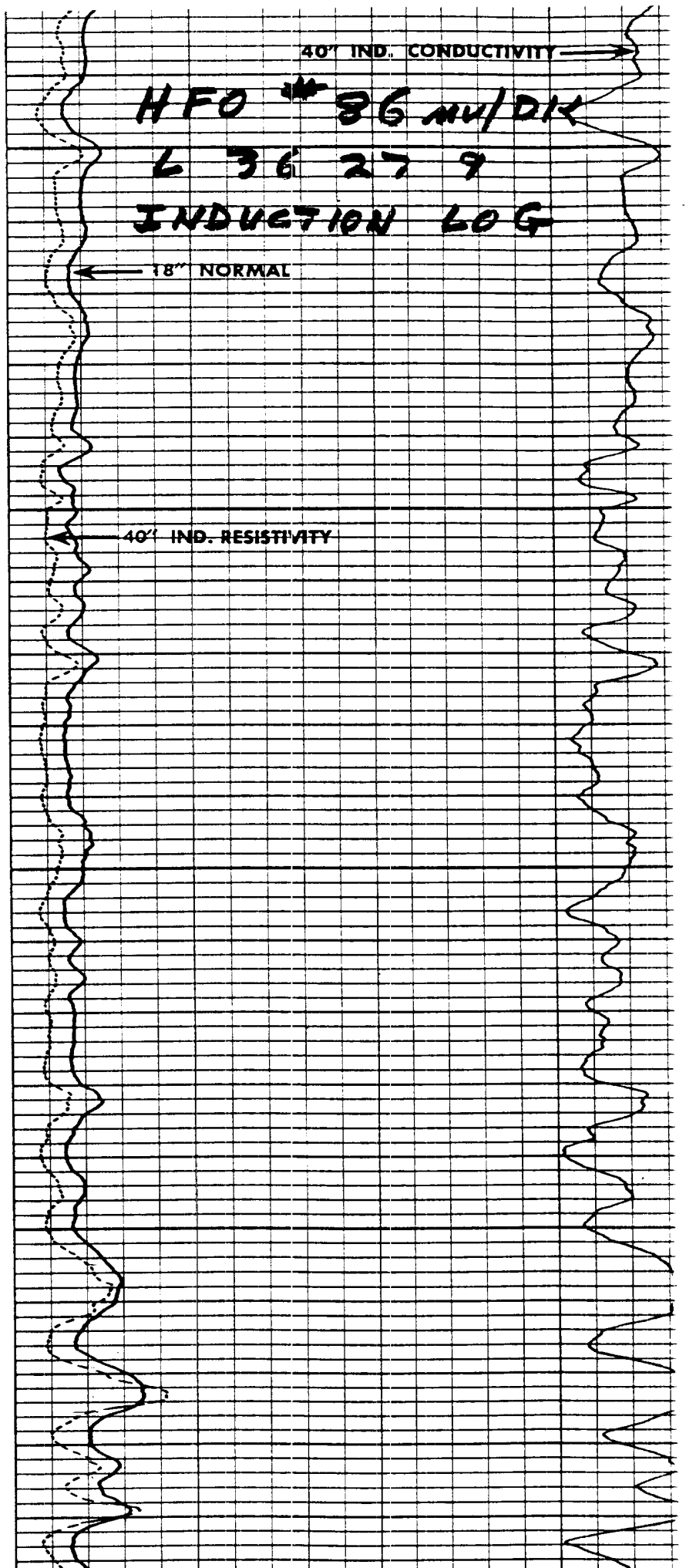


4450

4500

4550

4600



HFO #86 MV/DA
L 36 27 9

INDUCTION LOG

4300

4400

4500

4600

4700

SP