

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

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
2380' FSL, 925' FWL Sec. 6, T-26-N, R-8-W, NMPM

5. Lease Number
SF-078433
6. If Indian, All. or
Tribe Name
Navajo
7. Unit Agreement Name
8. Well Name & Number
Navajo Indian #6E
9. API Well No.
10. Field and Pool
Basin Dakota
11. County and State
San Juan 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"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other -
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut off
	<input type="checkbox"/> Conversion to Injectio

13. Describe Proposed or Completed Operations

It is intended to open additional Dakota pay and stimulate with the lower Dakota per the attached procedure.

RECEIVED
JUN 21 1994
OIL CON. DIV.
DIST. 3

070 FARMINGTON, NM
SH JUN 14 AM 7:37

RECEIVED
BLM

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

Signed [Signature] (MP) Title Regulatory Affairs Date 6/13/94

(This space for Federal or State Office use)

APPROVED BY _____ Title _____

CONDITION OF APPROVAL, if any: _____

APPROVED
JUN 14 1994

NOT RECORDED

NMOCD

Navajo Indian #6E DK
Stimulation Procedure
L 6 26 8
Lat-Long: 36.515945 - 107.728271
San Juan County, N.M.

1. Comply to all NMOCD, BLM, & MOI rules & regulations. MOL and RU completion rig. NU 6" 900 series BOP with flow tee and stripping head. NU blooie line and 2-7/8" relief line.
2. Lower tbg to 6540' (below bottom perf) to check for fill. If fill is encountered, clean out to 6560' w/air/mist. Set blanking plug in S.N. @ 6341' & pressure test to 3000 psi. TOH w/ 202 Jts 2-3/8" tbg.
3. Spot and fill 5 - 400 bbl. frac tanks with 1% KCL water. Filter all water to 25 microns. Four tanks are for gel & one tank for 2% KCL breakdown water. Usable water required for frac is 1228 bbls.
4. Perf additional Dakota sand w/ 1 spf @ 6411' & 6409'. Total 2 holes. Perforate using 3-1/8" hollow steel carrier guns loaded w/Owen HSC 13 gm. Run 4-1/2" csg scrapper on 2-3/8" tbg to 6400'. TOH.
5. TIH w/4-1/2" pkr & 2-7/8" NUE N-80 rental tbg w/shaved collars & set @ 6400'. Load backside w/1% KCL water & monitor & record backside pressure. Breakdown & balloff lower DK perfs w/2000 gal 15% HCL acid & 70 perf balls. Max. pressure is 4500 psi. Acidize w/2 gal/1000 corrosion inhibitor & 1 gal/1000 SAA-2 (surfactant). Record breakdown pressures. Lower pkr to 6540' to knock off perf balls. Reset pkr @ 6400'.
6. Load backside w/1% KCL water & monitor & record backside pressure during frac. Fracture treat well down frac string with 50,000 gals. of 30# X-linked gel & 80,000# 20/40 tempered DC (resin coated) sand. Pump at 15 BPM. Monitor bottomhole and surface treating pressures, rate, & sand concentration with computer van. Sand to be tagged with 0.4 mCi/1000# Ir-192 tracer. Max. pressure is 6000 psi and estimated treating pressure is 2800 psi. Total frac string friction @ 15 BPM is 1990 psi. Treat per the following schedule:

<u>Stage</u>	<u>Gel Vol. (Gals.)</u>	<u>Sand Vol. (lbs.)</u>
Pad	15,000	----
1.0 ppg	10,000	10,000
2.0 ppg	10,000	20,000
3.0 ppg	10,000	30,000
4.0 ppg	5,000	20,000
Flush	<u>(1,560)</u>	
Totals	50,000	80,000#

Shut well in after frac for six hours in an attempt to obtain closure pressure and allow the gel to break.

NAVAJO INDIAN #6E DK - DAKOTA RESTIMULATION
Page 2

Treat frac fluid with the following additives per 1000 gallons:

- * 6.81 gal J-4L (30# Gel)
- * 1.0 gal. Flowback-20 (Non-ionic Surfactant)
- * 3.0 gal Buffer-5L (X-Linker PH)
- * 1.0 gal CL-30 (X-Linker Borate)
- * 0.35# Fraccide-20 (Bacteriacide)

7. Open well through choke manifold and monitor flow. Flow @ 20 bbl/hr, or less if sand is observed. Take pitot gauges when possible.
8. TOH w/2-7/8" frac string & pkr. TIH with 3-7/8" bit on 2-3/8" tbg and clean out to 6560' w/air-mist.
9. Monitor gas and water returns and take pitot gauges when possible.
10. When wellbore is sufficiently clean, TOH and run after frac gamma-ray log from 6560'-6000'.
11. TIH with 2-3/8" tbg with standard seating nipple one joint off bottom and again cleanout to 6560'. When wellbore is sufficiently clean, land tbg at 6400'KB. Take final water and gas samples & rates.
12. Replace or repair any bad wellhead valves. ND BOP and NU wellhead & tree. Rig down & release rig.

Approve: _____

J. A. Howieson

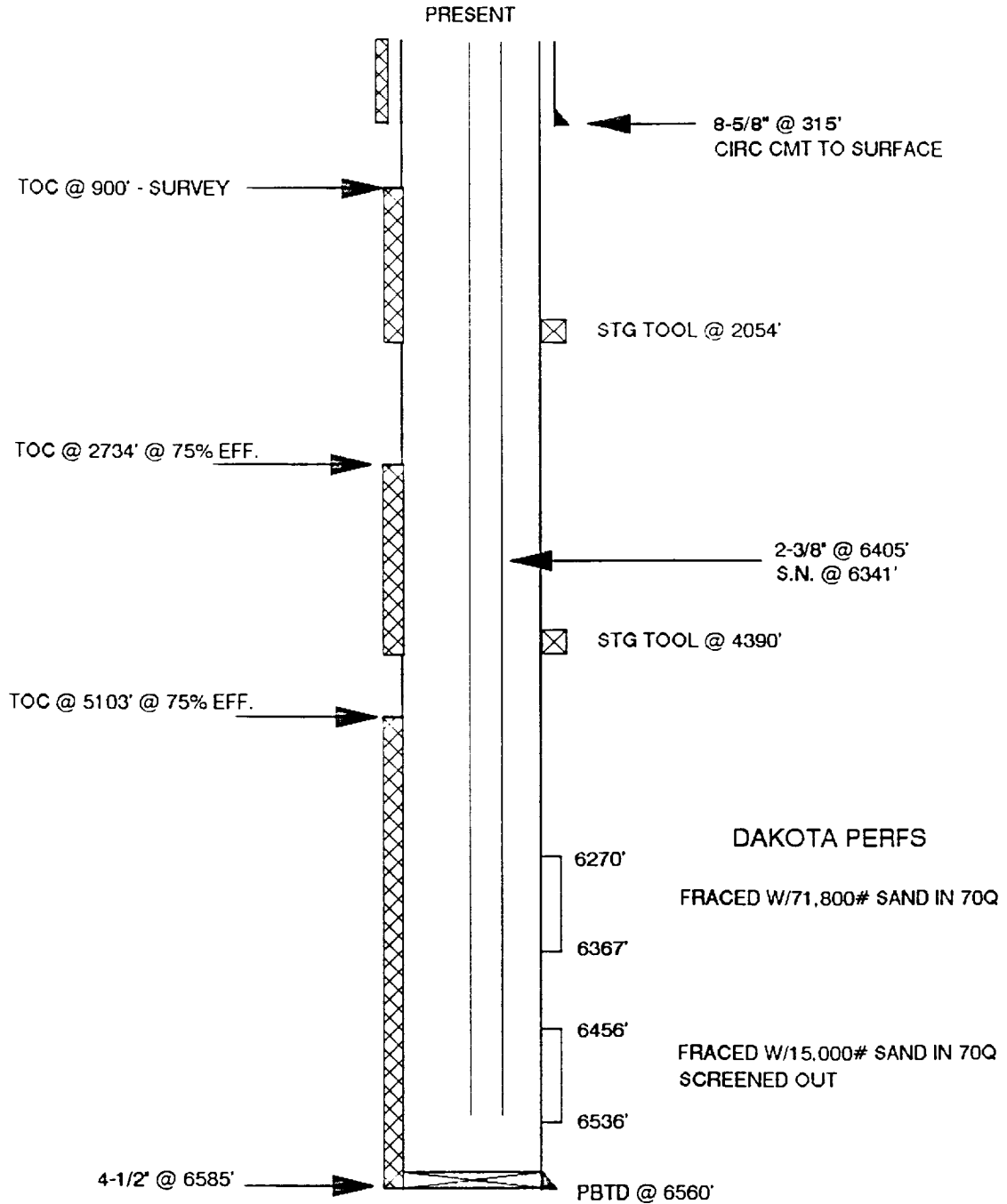
VENDORS:

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

PMP

NAVAJO INDIAN #6E DK

UNIT L SECTION 6 T26N R8W
SAN JUAN COUNTY, NEW MEXICO



Pertinent Data Sheet - NAVAJO INDIAN #6E DK

Location: 2380' FSL 925' FWL SEC. 6 T26N R08W, SAN JUAN COUNTY, N.M.

Field: Basin Dakota

Elevation: 6103' TD: 6585'
12' KB PBTD: 6560'

Prop#: 072031300

Lease: Federal SF-078433

DP#: 50814A

GWI: 100%

NRI: 86.01%

Completed: 10-13-82

Initial Potential:

ACF = 1885 MCF/D, Q = 1645 MCF/D, SICP = 1365 PSI

Casing Record:

Hole Size	Csq. Size	Wt. & Grade	Depth Set	Cement	Top/Cmt
12-1/4"	8-5/8"	32# K-55	315'	295 cf	Circ. Cmt
7-7/8"	4-1/2"	11.6# 10.5# K-55	6585'	450 cf	5103' @ 75% Eff.
		DV Tool @	4390'	503 cf	2734' @ 75% Eff.
		DV Tool @	2054'	826 cf	900' - Survey

Tubing Record: 2-3/8" 4.7# J-55 6405' 202 Jts
S.N. @ 6341'

Formation Tops:

Ojo Alamo	1115'	Mesaverde	3456'
Kirtland	1232'	Point Lookout	4196'
Fruitland	1570'	Gallup	5315'
Pictured Cliffs	1900'	Dakota	6264'

Logging Record: Induction, Density, CBL,

Stimulation: Perf lower DK @ 6456', 58', 60', 64', 72', 74', 76', 78', 80', 82', 84', 86', 88', 90', 6516', 18', 20', 22', 24', 26', 28', 30', 32', 34', 36' w/1 spf. Total 25 holes. Frac screened out w/15,000# sand in formation - 70Q foam. Perfed upper DK @ 6270'-74', 77', 79', 82', 83', 6336'-50', 6356'-60', 6365'-67' w/1 spf. Total 71 holes. Fraced w/71,800# sand in 70Q foam.

Workover History: None

Production History: DK 1st delivered on 2-1-83. Cumulative = 65 psi. Current Capacity = 0 MCF/D. Tbg = ??? psi. Csg = ??? psi. Bradenhead = ? psi. Line = ??? psi.

Pipeline: EPNG

PMP

BLM CONDITIONS OF APPROVAL

Operator Meridian Oil Inc. Well Name 6E Navajo Indian

Legal Location 2380'FSL/ 925'FWL Sec. 6 T. 26 N. R. 8 W.

Lease Number SF-078433 Field Inspection Date n/a

The following stipulations will apply to this well unless a particular Surface Managing Agency or private surface owner has supplied to BLM and the operator a contradictory environmental stipulation. The failure of the operator to comply with these requirements may result in the assessments or penalties pursuant to 43 CFR 3163.1 or 3163.2. A copy of these conditions of approval shall be present on the location during construction, drilling and reclamation activity.

An agreement between operator and fee land owner will take precedence over BLM surface stipulations unless (In reference to 43 CFR Part 3160) 1) BLM determines that operator's actions will affect adjacent Federal or Indian surface, or 2) operator does not maintain well area and lease premises in a workmanlike manner with due regard for safety, conservation and appearance, or 3) no such agreement exists, or 4) in the event of well abandonment, minimal Federal restoration requirements will be required.

1. **Pits will be fenced during work-over operation.**
2. **All disturbance will be kept on existing pad.**
3. **Empty and reclaim pit after work completed.**