

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
BLM

Sundry Notices and Reports on Wells

55 JUN 14 1996
070 FARMINGTON, NM

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
1650' FNL, 890' FEL, Sec. 7, T-27-N, R-10-W, NMPM
H

- 5. Lease Number
SF-077875
- 6. If Indian, All. or Tribe Name
- 7. Unit Agreement Name
- 8. Well Name & Number
Pipkin #6
- 9. API Well No.
30-045-06693
- 10. Field and Pool
Basin Fruitland Coal
- 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 checked="" 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 - Restimulate

13. Describe Proposed or Completed Operations

It is intended to fracture stimulate the existing Fruitland Coal interval @ 1543-1794' according to the attached procedure and wellbore diagram.

RECEIVED
JUN 2 1996
OIL SERVICE
DEPT.

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

Signed *Deanna Bradford* (SCWFTC) Title Regulatory Administrator Date 6/14/96

(This space for Federal or State Office use)

APPROVED BY _____ Title _____ Date _____

CONDITION OF APPROVAL, if any:

APPROVED

JUN 17 1996

DISTRICT MANAGER

NMOCD

MERIDIAN OIL - FRUITLAND COAL RESTIM PROCEDURE
LAT-LONG: 36.592468 - 107.930237

Pipkin #6

GENERAL WELL DATA:

Well Name: Pipkin #6
Location: Unit H, Section 07, T27N, R10W, 1650' FNL, 890" FEL
County, State: San Juan County, New Mexico
Field: Basin Fruitland Coal
Formation: Fruitland Coal
Elevation: 5981' GL
AFE #: 1N01

PROJECT OBJECTIVE: Restimulate existing Fruitland Coal perforations. Well was extreme overbalanced perforated in October, 1995. Prior to overbalance perforating the well was producing at +/- 300 MCFD. Well is currently not producing. It is believed near wellbore damage was created by perforating and can be bypassed via fracture stimulation.

Deliver to Location: 1.) 1200' of 3-1/2" J-55 Workstring 2.) 300' of 2-7/8" N-80 Fracstring. 3.) 1- 400 bbl frac tank. 4.) 5-1/2" fullbore packer

Completion Procedure:

1. Hold safety meeting. MIRU Rig. Place fire and safety equipment in strategic locations. Comply with all MOI, BLM and NMOCD rules and regulations. Record all tubing, casing, braidenhead and line pressures. RU flowlines. Blowdown tbg and csg. If necessary kill well with minimal 2% KCL. ND wellhead. Inspect wellhead for any leaks. Replace or repair any leaking valves or seals.
2. NU BOP's and stripping head. Unseat donut pick up one jt and tag PBTB @ 1800'.
3. TOOH w/ 2-3/8" tubing to above 1543'. Blow hole clean with air. Take baseline pitot gauge. Inject and surge perforations from 1543'-1794' with air up to 1000 psi and 1500 scfm with air package. Inject into formation 5 minutes after breakover is achieved. Blow well down to natural flow. Monitor returns for any solids. Gauge well. If no communication to reservoir is observed inject with foam mist system using soap. Monitor returns for solids. Continue to surge perms until no solids are present in returns. Blow hole clean. If unable to breakover below 1000 psi contact engineering. If production increases, flow well overnight and take gauge in AM. TOOH. Based upon pitot gauge a decision will be made at this time to proceed or to discontinue procedure.
4. PU and TIH with 200' of 2-7/8" N-80, 1100' of 3-1/2" J-55 and 5-1/2" fullbore packer. Set packer at 1300'. NU frac valve. Load annulus w 15 bbls of 2% KCL.
5. Fill 1- 400 bbl frac tank with 2% KCL. Gel tanks to 25# liner gel w/ 420 #'s gelling agent, 5 gals of pH buffer, and 3 #'s biocide. Conduct fluid analysis both prior to gelling and after gelling to ensure fluid meets stimulation requirements.
6. MIRU frac company. Install check valve and pressure transducer as close to wellhead as possible. Conduct pre-inventory of all treatment materials on location. Hold safety meeting.

7. Pressure test surface lines to 6500 psi. Pressure annulus to 750 psi. Maintain annulus pressure and monitor throughout frac for any communication. Frac Fruitland Coal down 3-1/2" frac string w/ 103,000 #'s of 20/40 sand with 46,368 gals of 70 quality foam using a 25# gel as base fluid. Tag sand with 0.4 mCi/1000#'s of IR-192 tracer. Estimated pump rate for job is 40 bpm with an anticipated average surface treating pressure of 2,500 psi. Maximum surface pressure is 5500 psi. Add gel breaker to clean volume fluid. Flush with gel only, flush volume is to 200' of top perforation. Anticipate treatment schedule is as follows:

Sand Conc (ppg)	Foam Vol. (gals.)	Gel Vol. (gals.)	N2 Vol (Mscf)	Sand Vol. (lbs.)
0	12,600	3,780	125	0
1	2,982	882	30	3,000
2	7,518	2,268	75	15,000
3	9,996	2,982	100	30,000
4	8,736	2,646	87	35,000
5	3,990	1,218	40	20,000
Flush	<u>504</u>	<u>504</u>	<u>0</u>	<u>0</u>
Total	46,326	14,208	457	103,000

Additive schedule:

Additive	Name	Concentration	Total
Foamer	AQF-2	3 gals / 1000	43 gals
Breaker	GBW-3	0.5 lbs / 1000	7 #'s
Surfactant	SSO-21M	2 gal / 1000	29 gals

9. Shut well in for 15 minutes record leak-off pressures. Open frac valve and flow back well through choke manifold w/ 1/8" choke. Continue to increase choke size to allow flow back. Do not flow at rate that allows sand to flow. Take pitot gauge when possible. Release packer and TOOH laying down 3-1/2" and 2-7/8" fracstring.
10. TIH w/ 2-3/8" and notch collar. CO well to PBTD with air. Monitor gas and fluid returns. When well is sufficiently clean TOOH.
11. MIRU wireline unit. Under a full lubricator run after frac gamma log from 1800' - 1300'. POOH. RD wireline unit.
12. TIH with pump-off plug on bottom, Model 'F' profile nipple one joint of bottom, and 2-3/8", 4.7# 8rd EUE tubing. Land tubing a minimum of 45' off bottom. Run in lockdown screws on donut. Nipple down BOP. Nipple up wellhead assembly.
13. Pump out plug. Blow hole clean for 1 hour. Take final pitot gauge up tubing. Shut in well. Rig down.

Compiled By:

Sean Woolverton 5/28/96
S. C. Woolverton
Production Engineer

Approved By:

J. W. Caldwell 5/28/96
J. W. Caldwell

eca 6/10/96
Drilling Superintendent

Vendors:

Stimulation Company:
Engineer:

Halliburton 325-3575
Sean Woolverton (H) 326-4525, (W) 326-9837, (P) 326-8931

Pipkin #6

AS OF 4/30/96

BASIN FRUITLAND COAL

UNIT H, SECTION 07, T27N, R10W, SAN JUAN COUNTY, NM

PICTURED CLIFFS
SPUD 5/19/53
COMPLETED 7/27/53
RECOMPLETED FTC 8/04/89

12-1/4" HOLE

8-5/8" 32# CSG SET @ 102'
CMT W/110 SXS
CIRC. CMT TO SURFACE

OJO ALAMO @ 745'

7-7/8" HOLE

KIRTLAND @ 890'

← 2-3/8" 4.7# J-55 TBG @ 1792'
F-NIPPLE @ 1760'

FRUITLAND COAL @ 1425'

EXTREME OVERBALANCE PERFORATE - 10/95
7500 PSI, 15,500 SCF N2, 240#S 20/40 BAUXITE
4 SPF, 90 PHASING

PERFS: 1543'-1546', 1580'-1583', 1588'-1590',
1595'-1598', 1630-1648', 1660'-1664', 1668'-1670',
1682'-1686', 1694'-1699', 1730'-1734', 1788'-1794'

ACID BREAKDOWN - 8/89
SPOT 250 GALS 7-1/2% HCL
PERF 2 SPF, SAP PERFS WITH 54.6 BBLS WTR

PICTURED CLIFFS @ 1802'

5-1/2" CMT RET SET @ 1800'
PUMP 25 SXS CLASS B CMT UNDER RET

5-1/2" 17# CSG SET @ 1806'
CMT W/150 SXS
TOC @ 1296' 50% CALC

OPENHOLE SHOT
165 QTS SNG
1813'-1881'

PBTD 1800'
TD 1881'

