

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
990' FSL, 1650' FWL Sec. 18, T-30-N, R-10-W, NMPM

5. Lease Number
SF-077764
6. If Indian, All. or
Tribe Name
7. Unit Agreement Name
8. Well Name & Number
Schumacher #3
9. API Well No.
30-045-09447
10. Field and Pool
Aztec PC/Basin Ft Co
11. County and State
San Juan Co, NM

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

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 add the Fruitland Coal to this well and commingle with the Pictured Cliffs per the attached procedure and wellbore diagram.

RECEIVED
JUL 05 1994
OIL CON. D.
DIST. 3

C/O FARMINGTON, NM

JUN 17 PM 2:01

RECEIVED
JUN 17 PM 2:01

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

Signed Gregory S. Brannum (SBD) Title Regulatory Affairs Date 6/15/94

(This space for Federal or State Office use)

APPROVED BY _____ Title _____

CONDITION OF APPROVAL, if any:

Date

APPROVED

JUN 22 1994

Gregory S. Brannum
DISTRICT MANAGER

NMOCD

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos 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

070 FARMINGTON, NM ☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 APT Number 30-045-09447		2 Pool Code 71629/71280		3 Pool Name Basin Fruitland Coal/Aztec Pictured Cliffs	
4 Property Code		5 Property Name Schumacher			6 Well Number 3
7 OGRID No. 14538		8 Operator Name MERIDIAN OIL INC.			9 Elevation 6325'

10 Surface Location

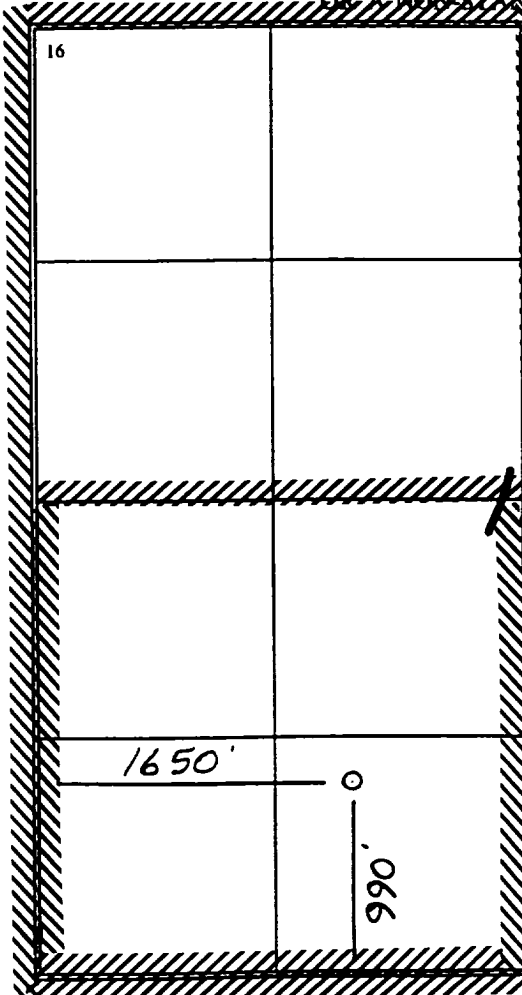
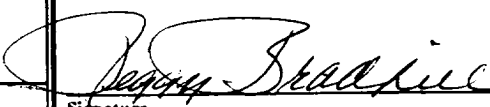
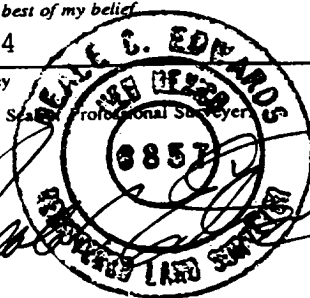
UL or lot no. N	Section 18	Township 30 N	Range 10 W	Lot Idn	Feet from the 990	North/South line South	Feet from the 1650	East/West line West	County S.J.
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11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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12 Dedicated Acres 309.53/ 160	13 Joint or Infill	14 Consolidation Code	15 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

16 	Not resurveyed, prepared from a plat by C.O. Walker dated 10-3-52.	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief  Signature Peggy Bradfield Printed Name Regulatory Representative Title Date 6-16-94	
		18 SURVEYOR CERTIFICATION 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. 6-16-94 Date of Survey Signature and Seal of Professional Surveyor  6857 Certificate Number	

Pertinent Data Sheet - SCHUMACHER #3

Location: 990' FSL, 1650' FWL, Section 18, T30N, R10W, San Juan County, New Mexico

Field: Aztec Pictured Cliffs **Elevation:** 6325' GL **TD:** 2920'
PBTD: N/A

Completed: 11-19-52 **Spud Date:** 10-17-52 **DP #:** 50877A PC
DP #: 50877B FTC

Casing Record:

<u>Hole Size</u>	<u>Csg Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>Top/Cement</u>
	9 5/8"	25.4# SPIRAL	130'	75 sxs	Surface/Circ
	5 1/2"	15.5# J-55	2822'	150 sxs	TOC unknown

Tubing Record:

<u>Tbg Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>
1"	1.7#	2890'

Formation Tops:

Ojo Alamo: 1409'
Kirtland: 1559'
Fruitland: 2456'
Pictured Cliffs: 2820'

Logging Record:

Stimulation: PC

Open Hole: Shot w/ 200 qts. SNG 2836' - 2920'

Workover History:

Production History:

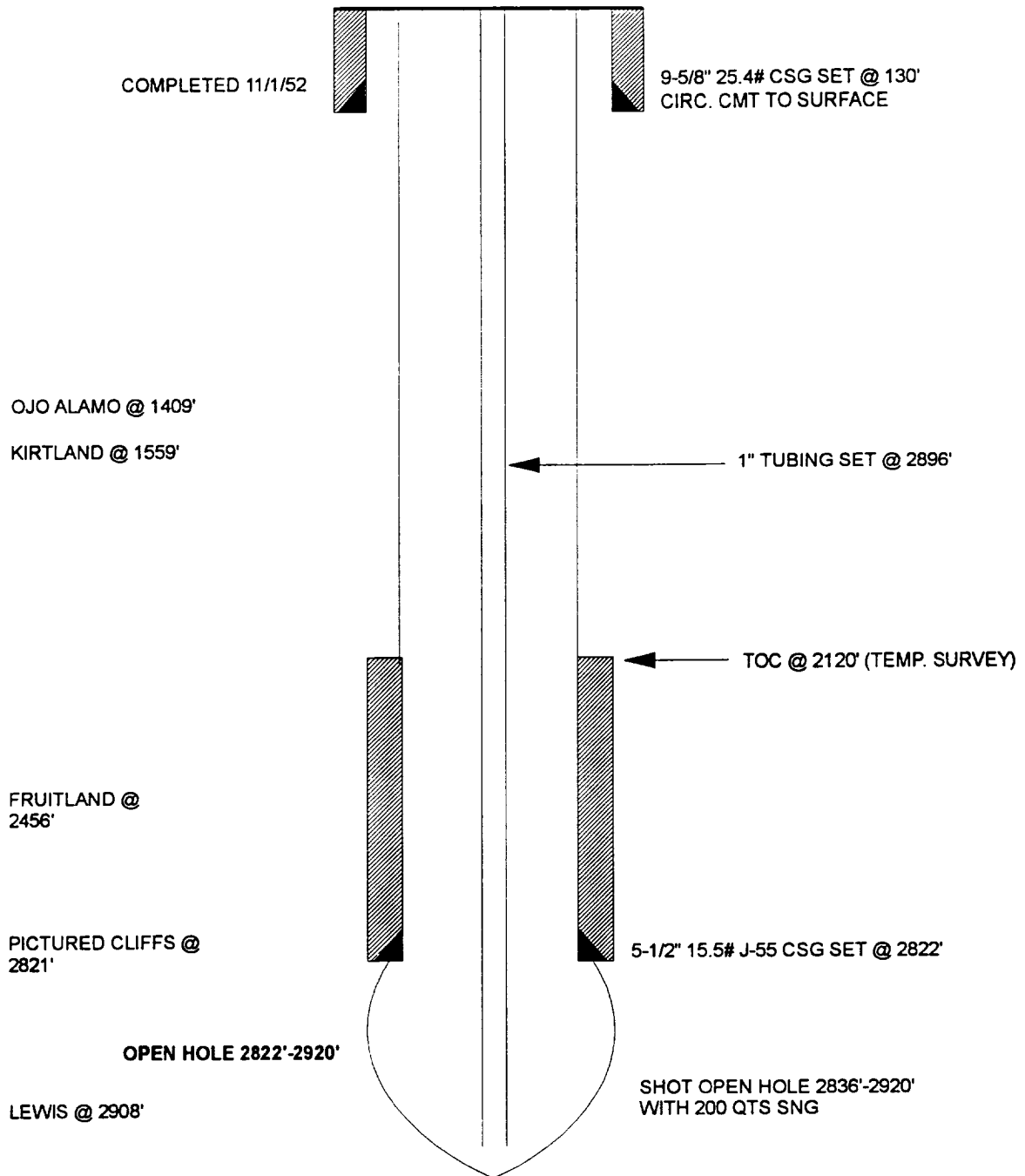
Transporter: EPNG

SCHUMACHER #3

CURRENT

AZTEC PICTURED CLIFFS

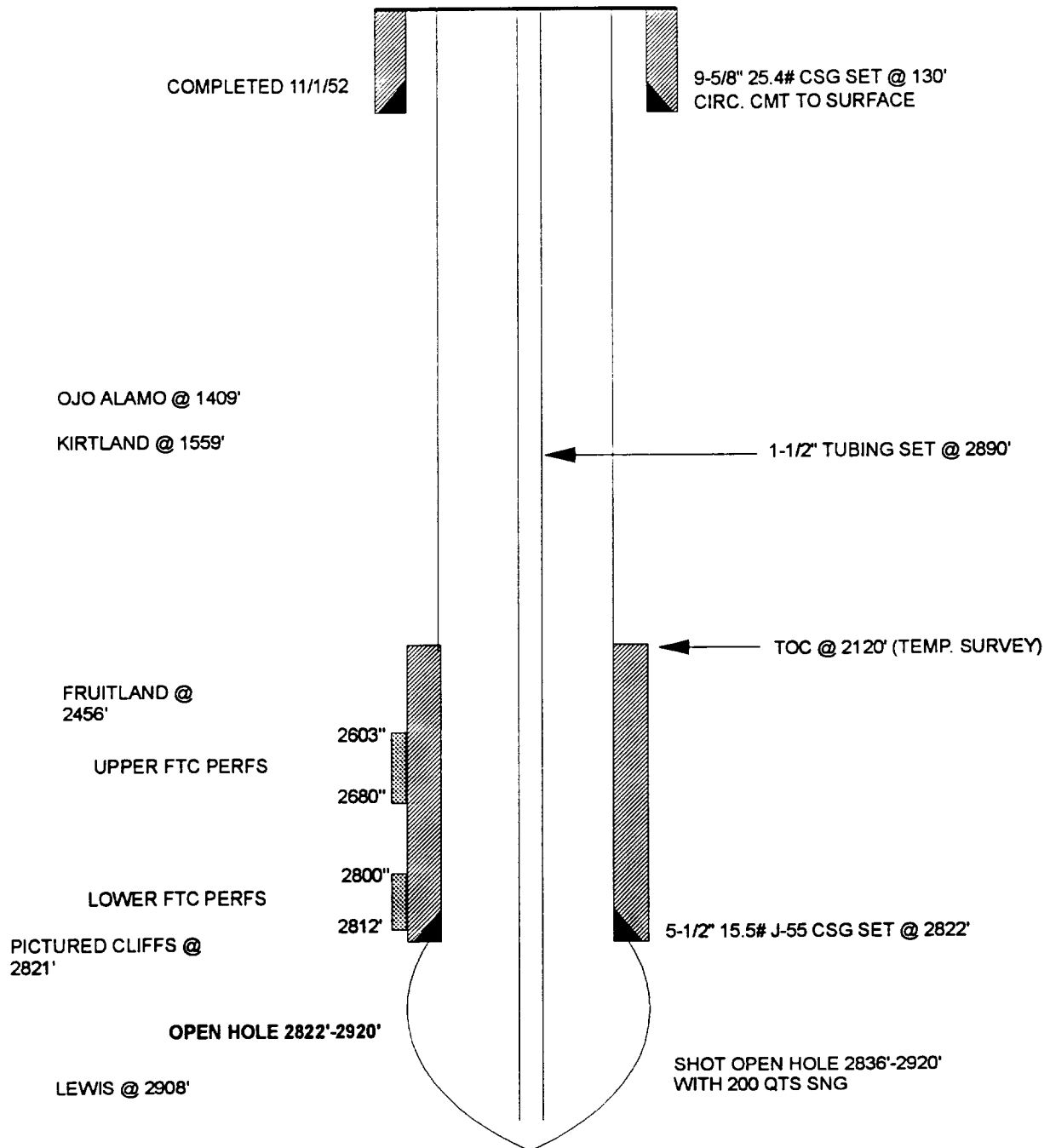
UNIT N, SEC 18, T30N, R10W, SAN JUAN COUNTY, NM



SCHUMACHER #3

PROPOSED

AZTEC PICTURED CLIFFS / BASIN FRUITLAND COAL
UNIT N, SEC 18, T30N, R10W, SAN JUAN COUNTY, NM



SCHUMACHER #3
Recommend Completion Procedure
SW/4 Section 18 T30N R10W

1. Test rig anchors and repair if necessary. Install 2-400 bbl frac tanks on location and fill with 2% KCl water. Filter all water to 25 microns. Heat water as required by weather.
2. MOL and RU. Comply to all NMOCD, BLM and MOI rules & regulations. Hold safety meeting. ND wellhead. NU BOP. Test operation of rams. NU two relief lines.
3. TOOH w/ 2896' of 1" 1.7# tbgs, tally and inspect.
4. TIH w/ 4-3/4" bit on 2-3/8" work-string and clean out to open hole TD @ 2920'. TOOH.
5. TIH w/ 4-3/4" bit and 5-1/2" casing scraper on 2-3/8" tbgs and clean out to 5-1/2" casing shoe @ 2822'. Load hole w/ 25 bbls 2% KCl water. TOOH.
6. RU & RIH w/ CNL-CCL-GR and log from casing shoe @ 2822' to 2400'.
7. RIH and wireline set 5-1/2" RBP @ 2820'. Correlate w/ GR-CCL-CNL to ensure RBP is set between PC and basal FTC.
8. TIH w/ fullbore packer and 2-3/8" tubing, load hole w/ 2% KCl water, set packer @2810', test RBP to 3000 psi for 15 minutes. Test tubing/casing annulus to 500 psi for 15 minutes. Equalize pressure and unseat packer. TOOH.
9. RU wireline and run CBL from PBTD (2820') to 150'. If CBL appears inadequate, re-run log with 500 psi surface pressure. If bond still appears unacceptable, contact production engineering. Send copy of CBL to production engineering.
10. Refill the 400 bbl tanks on location with 2% KCl water in preparation for Fruitland coal fracs. Filter all water to 25 microns. Heat water as required by weather.

SCHUMACHER #3
Recommend Completion Procedure
SW/4 Section 18 T30N R10W
Page 2

*****LOWER COAL*****

11. RU wireline and perf the following coal interval w/ 3-3/8" HSC w/ 16.0 gram charges, 0.4" holes @ 4 SPF (correlate depths to CNL-CCL-GR log).

2800 - 2812'

Total: 12 feet: 48 holes

12. TIH w/ 3-1/2", 9.3# N-80 FJ frac string to 2700', set packer @2700'. Load backside w/ 2% KCl water and pressure backside to 500 psi. Breakdown and attempt to ball off lower FTC w/ 2500 gallons 15% HCl acid and 120 7/8" 1.3 sp. gr. RCN perf balls. Max pressure 4000 psi. Acid to contain 1 gal/1000 SAA-2 (surfactant) and 2 gal/1000 C1A-2 (corrosion inhibitor). Lower pkr to 2815' to knock off perf balls. TOOH w/ frac string.
13. TIH w/ 2-3/8" tubing and retrieving head and clean out to PBTD @ 2820' with air, swab well in if necessary. Continue blowing well for 24 hours, take gas and water samples after 24 hours. Retrieve RBP @2820', TOOH
14. TIH w/ 3-1/2", 9.3# N-80 FJ frac string to 2700', set packer @2700'. Load backside w/ 2% KCl water and pressure backside to 500 psi. RU treatment company for frac. Hold safety meeting with all personnel. Pressure test surface lines to 5000 psi. Fracture treat lower coal/ PC according to attached schedule w/ 70Q foam at 20 BPM with 140,000 lbs of 20/40 mesh Arizona sand and TAIL WITH 20,000 #'s 12/20 mesh Arizona sand. Tag pad with 0.26 mCi/1000 gallons foams w/ Sc-46 tracer and sand with 0.4 mCi/1000# Ir-192 tracer. Flush with 9 bbls 2% KCl. Estimated treating pressure is 2500 psi. **MAXIMUM PRESSURE IS LIMITED TO 4000 PSI!** Monitor backside and braden head pressures during frac. Monitor bottomhole and surface treating pressure, rate, foam quality and sand concentration with computer van. Frac during daylight **only**.
15. SI well for 3 hours for gel break.
16. After gel break, open well through choke manifold & monitor flow. Flow @ 20 bbls/hr, or less if sand is observed.
17. Refill 400 bbl frac tanks with 2% KCl water and filter to 25 microns. Heat water as required by weather.
18. When well ceases to flow, Release packer, TIH w/ pkr and frac string to 2800' to check for fill. TOOH. TIH w/ 2-3/8" tbg, setting tool, and 5-1/2" RBP to 2750'. Set 5-1/2" RBP @ 2750'.

SCHUMACHER #3
Recommend Completion Procedure
SW/4 Section 18 T30N R10W
Page 3

*****UPPER COAL*****

19. RU wireline and perf the following coal interval w/ 3-3/8" HSC w/ 16.0 gram charges @ 2 SPF (correlate depths to CNL-CCL-GR log).

2603 - 2610'

2626 - 2634'

2641 - 2650'

2671 - 2680'


Total: 33 feet: 66 holes

20. TIH w/ frac string and set pkr @ 2730'. Pressure test BP to 3000 psi surface pressure.
21. TOOH w/ 3-1/2", 9.3# N-80 FJ frac string to 2500', set packer @2500'. Load backside w/ 2% KCl water and pressure backside to 500 psi. Breakdown and attempt to ball off lower FTC w3000 gallons 15% HCl acid and 165 7/8" 1.3 sp. gr. RCN perf balls. Max pressure 4000 psi. Acid to contain 1 gal/1000 SAA-2 (surfactant) and 2 gal/1000 C1A-2 (corrosion inhibitor). Lower pkr to 2700' to knock off perf balls. TOOH w/ frac string.
22. TIH w/ 2-3/8" tubing and clean out to PBTD @ 2750' with air, swab well in if necessary. Continue blowing well for 24 hours, take gas and water samples after 24 hours. TOOH
23. TIH w/ 3-1/2", 9.3#, N-80, FJ frac string to 2500', set packer @2500'. Load backside w/ 2% KCl water and pressure backside to 500 psi. RU treatment company for frac. Hold safety meeting with all personnel. Pressure test surface lines to 5000 psi. Fracture treat upper coal according to attached schedule w/ 70Q foam at 20 BPM with 100,000 lbs of 20/40 mesh Arizona sand and 10,000 #'s 12/20 mesh Arizona sand. Tag pad with 0.26 mCi/1000 gallons foams w/ Sc-46 tracer and sand with 0.4 mCi/1000# Ir-192 tracer. Flush with 14 bbls 2% KCl. Estimated treating pressure is 2700 psi. **MAXIMUM PRESSURE IS LIMITED TO 4000 PSI!** Monitor backside and braden head pressures during frac. Monitor bottomhole and surface treating pressure, rate, foam quality and sand concentration with computer van. Frac during daylight only.
24. SI well for 3 hours for gel break.
25. After gel break, open well through choke manifold & monitor flow. Flow @ 20 bbls/hr, or less if sand is observed.
26. When well ceases to flow, TOOH w/ pkr and frac string. TIH w/ retrieving head on 2-3/8" tbg and clean out upper zone until sand flow stops. **Take Pitot gauge before releasing BP.** Release RBP set @ 2750' and TOOH.
27. TIH w/ 4 3/4" bit on 2 3/8" tbg and clean out FTC and PC until sand stops. After clean up, flow test for 24 hrs, taking pitot gauges every 6 hrs. **Take final Pitot gauge.** TOOH laying down 2-3/8" tbg.

SCHUMACHER #3
Recommend Completion Procedure
SW/4 Section 18 T30N R10W
Page 4

28. RU wireline and run After - Frac - GR log from 2892' to 2500'.
29. TIH w/ 2890' of 1-1/2" tbg w/ standard seating nipple (ID = 1.375") one jt off bottom and pump-off plug on bottom. Land tbg string.
30. ND BOP and NU independent wellhead. Pump off plug. Take final Pitot gauge. Rig down & release rig.

Approve:


J. A. Howieson

ALW
6/2/94

VENDORS:

Wireline:

Fracturing:

RA Tagging:

SCHLUMBERGER

WESTERN

Protechnics

325-5006

327-6222

326-7133