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

5. **Lease Number**
   SF-077085
6. **If Indian, All. or Tribe Name**

7. **Unit Agreement Name**

2. **Name of Operator**
   Meridian Oil Inc.

8. **Well Name & Number**
   Omler #5

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

9. **API Well No.**

4. **Location of Well, Footage, Sec., T, R, M**
   1120'FSL, 1650'FEL Sec.25, T-28-N, R-10-W, NMPM

10. **Field and Pool**
    Basin Frt Coal
    Fulcher Kutz PC

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		
_x_ Notice of Intent	___ Abandonment	___ Change of Plans	
	___ Recompletion	___ New Construction	
___ Subsequent Report	___ Plugging Back	___ Non-Routine Fracturing	
	___ Casing Repair	___ Water Shut off	
___ Final Abandonment	___ Altering Casing	___ Conversion to Injection	
	_x_ Other -		

13. **Describe Proposed or Completed Operations**

It is intended to complete the Fruitland Coal formation in the existing Pictured Cliffs wellbore and produce the two formations via downhole commingling according to the attached procedure and wellbore diagrams. An application for this commingle was made to the New Mexico Oil Conservation Division June 10, 1992.

RECEIVED
BLM
92 JUL -6 PM 1:19
070 FARMINGTON, NM

RECEIVED
JUL 14 1992
OIL CON. DIV.
DIST. 3

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

Signed [signature] (KAS) Title Regulatory Affairs Date 7/2/92

(This space for Federal or State Office use)
APPROVED BY _____ Title _____ Date _____
CONDITION OF APPROVAL, if any:

APPROVED
JUL 10 1992
AREA MANAGER

NMOCD

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

RECEIVED
BLM
92 JUL -6 PM 1:19
070 FARMINGTON, N.M.

WELL LOCATION AND ACREAGE DEDICATION PLAT
All Distances must be from the outer boundaries of the section

Operator	Lease	Well No.
Meridian Oil Inc.	Omler	5

Unit Letter	Section	Township	Range	County
O	25	28 North	10 West NMPM	San Juan

Actual Footage Location of Well:
1120 feet from the South line and 1650 feet from the East line

Ground level Elev.	Producing Formation	Pool	Dedicated Acreage:
5872'	Fruitland Coal/Pictured Cliffs	Basin/Fulcher Kutz	320/160 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

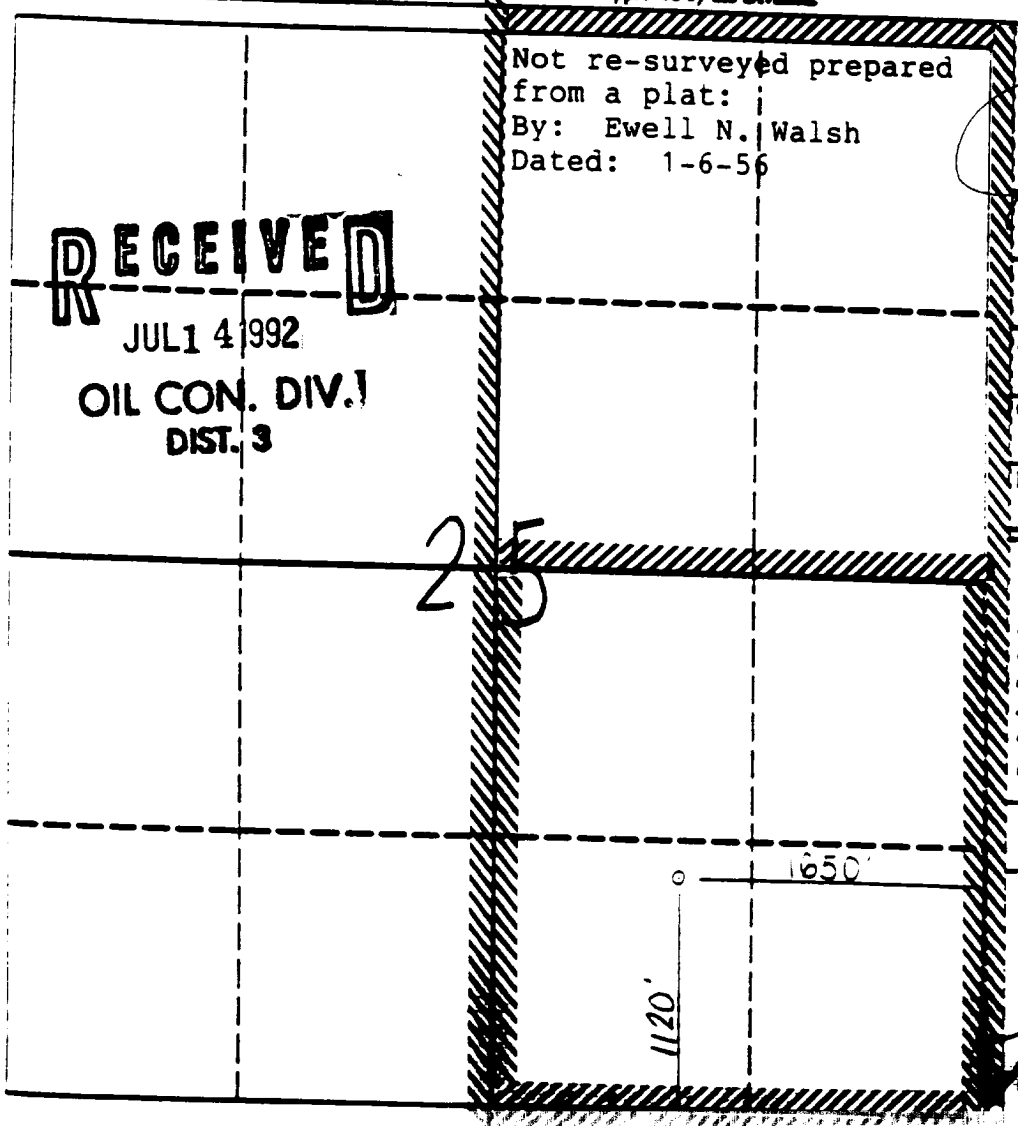
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc.?

☐ Yes ☐ No If answer is "yes" type of consolidation _____

If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary. _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



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: Peggy Bradfield

Position: Regulatory Affairs

Company: Meridian Oil Inc.

Date: 7-2-92

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 knowledge and belief.

6-19-92

Date Surveyed

Signature & Seal of Professional Surveyor

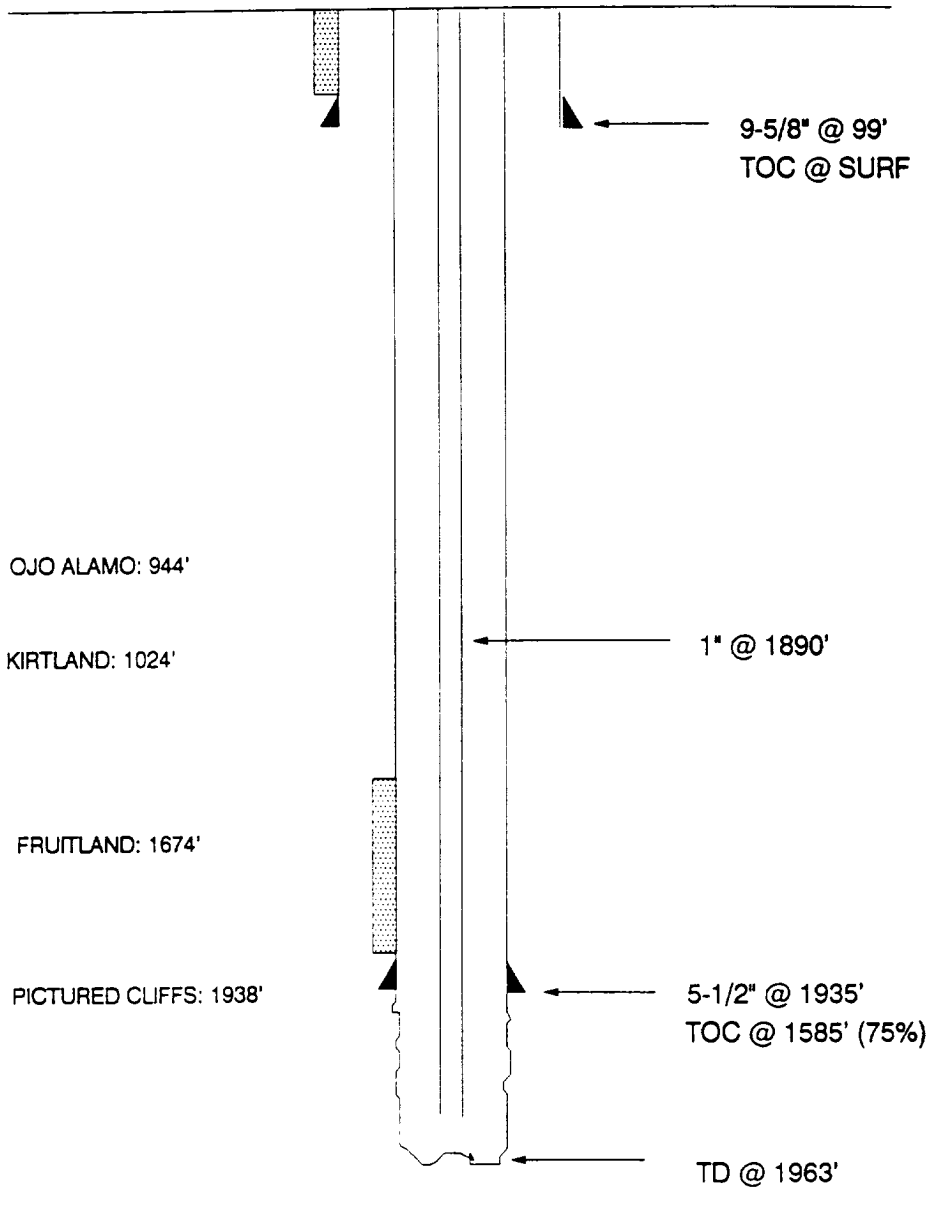
Certificate No. 6857

CURRENT

OMLER #5

UNIT O SECTION 25 T28N R10W

SAN JUAN COUNTY, NEW MEXICO

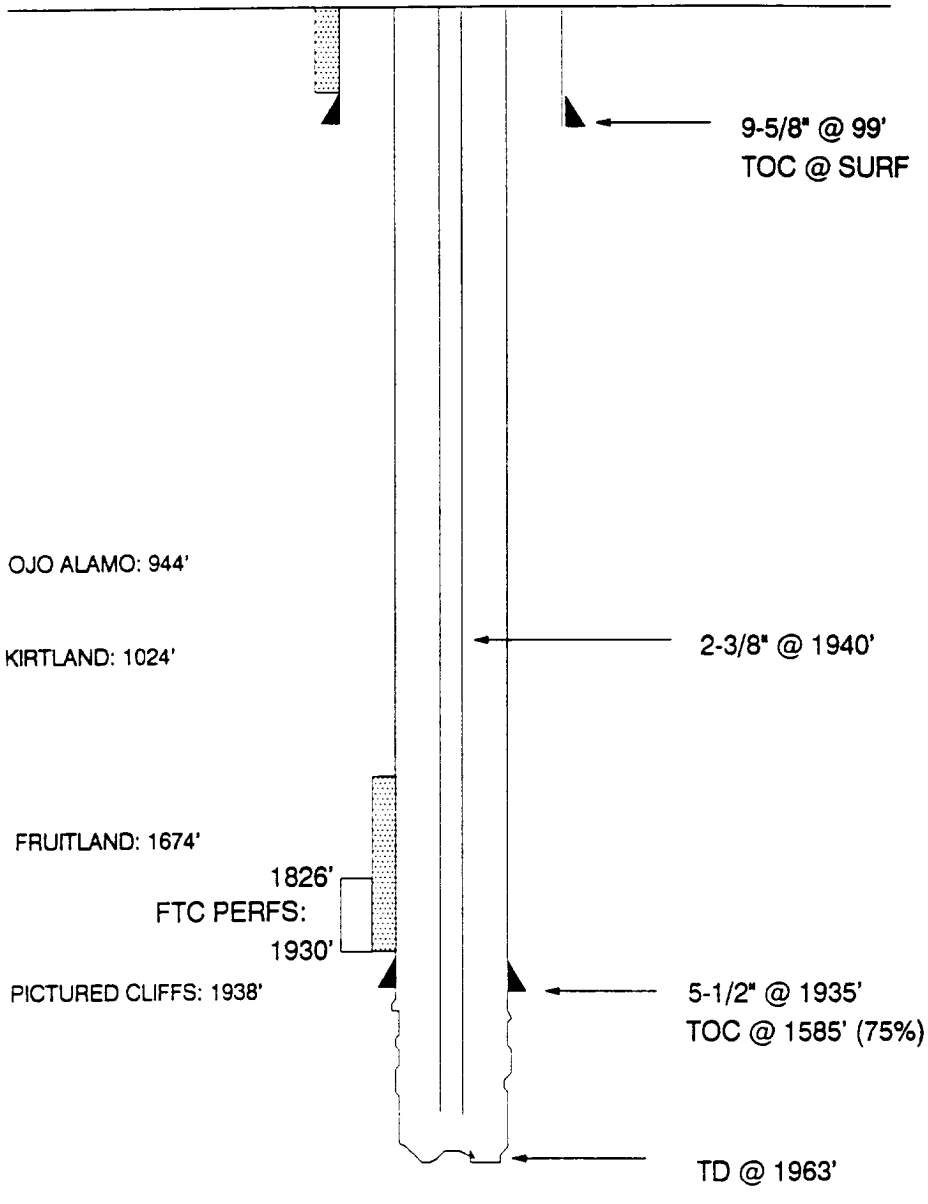


PROPOSED

OMLER #5

UNIT O SECTION 25 T28N R10W

SAN JUAN COUNTY, NEW MEXICO



OMLER #5
Recommend Recompletion Procedure
Unit O Section 25 T28N R10W

1. 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. Blow well down.

2. TOOH w/ 1890' of 1" tbg.

3. TIH w/ csg scraper on 2-3/8" tbg to 1935'. TOOH.

4. RU wireline and pack-off and run GR & CNL and collar locator from 1963' - 900'. Determine depth of casing shoe and correlate formation depths to existing "type" log.

5. After csg shoe depth is determined set 5-1/2" retrievable BP as close to the bottom Fruitland coal as csg shoe will allow (approx 1925'). Run CBL.

6. Pressure test csg and BP to 1000 psi. If csg fails, isolate csg leaks and squeeze as required. **If holes occur at Ojo Alamo depths (approx 1000'), contact production engineering.**

7. a) If squeeze was performed, TIH w/ 4-3/4" bit on 2-3/8" tbg. Drill cmt & CO w/ water to 1925'. Pressure test csg leak repair to 3000 psi. Resq w/ Western "WMC-1" cement to achieve 3000 psi test if necessary.
   b) If squeeze was not performed, pressure test csg to 3000 psi. If pressure test fails, squeeze as necessary. Pressure test repair to 3000 psi. Use Western "WMC-1" cement to achieve 3000 psi test.

   • If csg can not be made to hold 3000 psi, sq to hold 1000 psi.

8. TOOH w/ RBP.

9. TIH w/ 4-3/4" bit on 2-3/8" tbg and CO to TD (1963') w/ air mist.

10. Shut down air mist. After stable rate is established, take pitot gauge. Switch to a relief line with an adjustable choke and apply 60 psi back pressure. After stable rate is established, take pitot. TOOH. **Inform production engineering of results.**

•Pictured Cliffs frac will <u>ONLY</u> be performed if adequate PC production is not established through CO operations.

• IF CSG HOLDS 3000 PSI, FOLLOW <u>PROCEDURE A</u>

• IF CSG CANNOT BE MADE TO HOLD 3000 PSI, SQUEEZE TO HOLD 1000 PSI AND FOLLOW <u>PROCEDURE B</u>

PROCEDURE A
(Procedure For Fracing Down Csg)
OMLER #5
Unit O Section 25 T28N R10W

11. In preparation of fracs, fill 2 - 400 bbl frac tanks with 2% KCL water. Filter all water to 25 microns.

PC FRAC

12. RU hydraulic tree saver. RU Western for fracture treatment. Hold safety meeting with all personnel. Pressure test surface lines to 4000 psi. Fracture treat open hole PC according to attached schedule at 25 BPM with 22,000 lbs of 20/40 mesh Arizona sand. Flush with 1988 gals water. **MAXIMUM PRESSURE IS LIMITED TO 3000 PSI!** Monitor bottomhole and surface treating pressure, rate, foam quality and sand concentration with computer van. Frac during daylight only.

13. PU tree saver, close blind rams. RD tree saver.

14. RU lubricator.

15. RU wireline and set RBP as close to bottom Fruitland Coal as casing shoe will allow (approx 1930'). RD lubricator.

16. Perf Fruitland coal w/ 4" HSC guns w/ 9.8 gram charges. Shoot approx 1826-44', 1854-62' and 1920-30' w/ 4 SPF. Choose exact perfs from CNL.

17. TIH w/ 2-3/8" tbg and SAP tool w/ 4' spacing. Breakdown perfs with 1/2 bbl/ft at 1 BPM with 20 bbls 15% HCL. Add 0.3% quaternary amine type clay stabilizer, an inhibitor and sequestering agent to the acid. TOOH.

Fruitland Coal Frac

18. RU hydraulic tree saver. RU Western for fracture treatment. Hold safety meeting with all personnel. Pressure test surface lines to 4000 psi. Fracture treat according to attached schedule at 30 BPM with 100,000 lbs of 20/40 mesh Arizona sand. Flush with 1742 gals 70 quality foam. Tag the last 1/3 of the frac with 0.4 mCi/1000# Ir-192 tracer. **MAXIMUM PRESSURE IS LIMITED TO 3000 PSI!** Monitor bottomhole and surface treating pressure, rate, foam quality and sand concentration with computer van. Frac during daylight only.

•Treat per the attached treatment schedule.

19. Immediately upon completion of the stimulation, flow the well to pit on 1/8" positive choke for 10 minutes. Monitor flow back pressure on square root of time vs pressure plot. SI well for 2 hours for gel break.

20. After gel break, open well through choke manifold & monitor flow. Flow @ 20 bbls/hr, or less if sand is observed.

21. When well ceases to flow, TIH w/ 2-3/8" tbg and retrieving head and clean out upper zone until sand flow stops. Take Pitot gauge and gas & water samples before releasing BP. Equalize pressure across BP and flow PC formation until flow stops. Release BP set @ 1930' and TOOH.

22. TIH w/ 2-3/8" tbg and CO to TD. TOOH.

23. Run After-Frac-Gamma-Ray log from TD - 900'.

24. TIH w/ 1940' of 2-3/8" tbg w/ standard seating nipple one jt off bottom and 2-3/8" expendable check valve on bottom. Land tbg string.

25. ND BOP and NU independent wellhead. Pump off expendable check valve. Take final Pitot gauge. Rig down & release rig.

Approve: _____
J. A. Howieson

VENDORS:

Wireline:	Blue Jet	325-5584
Fracturing:	Western	327-6222
RA Tagging:	Protechnics	326-7133
Cementing:	Western	327-6222

KAS:kas

PROCEDURE B

(Procedure For Fracing Down Frac String)
OMLER #5
Unit O Section 25 T28N R10W

11. In preparation of PC frac, fill 1 - 400 bbl frac tank with 2% KCL water. Filter all water to 25 microns.

PC FRAC

12. TIH w/ 3-1/2", 9.3#, N80, Flush Jt frac string and set pkr @ 1930'.

13. RU Western for fracture treatment. Hold safety meeting with all personnel. Pressure test surface lines to 5000 psi. With 500 psi held on backside & recorded, fracture treat open hole PC down frac string. Perform frac as stated in the attached treatment schedule at 25 BPM with 22,000 lbs of 20/40 mesh Arizona sand. **MAXIMUM PRESSURE IS LIMITED TO 4000 PSI!** Flush with 632 gals 70 quality foam. Monitor bottomhole and surface treating pressure, rate, foam quality and sand concentration with computer van. Frac during daylight only.

    •Treat per the attached treatment schedule.

14. Immediately upon completion of the stimulation, flow the well to pit on 1/8" positive choke for 10 minutes. Monitor flow back pressure on square root of time vs pressure plot. SI well for 2 hours for gel break.

15. After gel break, open well through choke manifold & monitor flow. Flow @ 20 bbls/hr, or less if sand is observed. When well ceases to flow, proceed to Fruitland Coal frac.

16. In preparation of Fruitland Coal frac, fill 2 - 400 bbl frac tanks with 2% KCL water. Filter all water to 25 microns.

Fruitland Coal Frac

17. RU wireline and set RBP as close to bottom Fruitland Coal as casing shoe will allow (approx 1930').

18. Perf Fruitland coal w/ 4" HSC guns w/ 9.8 gram charges. Shoot approx 1826-44', 1854-62' and 1920-30' w/ 4 SPF. Choose exact perfs from CNL.

19. TIH w/ 2-3/8" tbg and SAP tool w/ 4' spacing. Breakdown perfs with 1/2 bbl/ft at 1 BPM with 20 bbls 15% HCL. Add 0.3% quaternary amine type clay stabilizer, an inhibitor and sequestering agent to the acid. TOOH.

20. TIH w/ 3-1/2", 9.3#, N80, Flush Jt frac string and set pkr @ 1700'. Pressure test BP and csg below pkr to 4000 psi.

21. RU Western for fracture treatment. Hold safety meeting with all personnel. Pressure test surface lines to 5000 psi. With 500 psi held on backside & recorded, fracture treat according to attached schedule at 30 BPM with 100,000 lbs of 20/40 mesh Arizona sand. Flush with 548 gals 70 quality foam. Tag the last 1/3 of the frac with 0.4 mCi/1000# Ir-192 tracer. **MAXIMUM PRESSURE IS LIMITED TO 4000 PSI!** Monitor bottomhole and surface treating pressure, rate, foam quality and sand concentration with computer van. Frac during daylight only.

    •Treat per the attached treatment schedule.

22. Immediately upon completion of the stimulation, flow the well to pit on 1/8" positive choke for 10 minutes. Monitor flow back pressure on square root of time vs pressure plot. SI well for 2 hours for gel break.

23. After gel break, open well through choke manifold & monitor flow. Flow @ 20 bbls/hr, or less if sand is observed.

24. When well ceases to flow TOOH w/ pkr & frac string. TIH w/ 2-3/8" tbg and retrieving head and clean out upper zone until sand flow stops. Take Pitot gauge and gas & water samples before releasing BP. Release BP set @ 1930' and TOOH.

25. TIH w/ 2-3/8" tbg and CO to TD. TOOH.

26. RU wireline and pack-off and run After-Frac-Gamma-Ray log from TD - 900'.

27. TIH w/ 1940' of 2-3/8" tbg w/ standard seating nipple one jt off bottom and 2-3/8" expendable check valve on bottom. Land tbg string.

28. ND BOP and NU independent wellhead. Pump off expendable check valve. Take final Pitot gauge. Rig down & release rig.

Approve: _____
J. A. Howieson

VENDORS:

Wireline:	Blue Jet	325-5584
Fracturing:	Western	327-6222
RA Tagging:	Protechnics	326-7133
Cementing:	Western	327-6222

KAS:kas