

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0136
Expires November 30, 2000

5. Lease Serial No. **NMSF-0 079232**
6. If Indian, Allottee or Tribe Name **N/A**

1a. Type of Work: DRILL REENTER

7. If Unit or CA Agreement, Name and No. **N/A**

1b. Type of Well: Oil Well Gas Well Other Single Zone Multiple Zone

8. Lease Name and Well No. **Bolack C 23**

2. Name of Operator **XTO Energy Inc.**

9. API Well No. **30-045-32553**

3a. Address **2700 Farmington Ave., Bldg K-1
Farmington, NM 87401**

3b. Phone No. (include area code)
(505) 324-1090

10. Field and Pool, or Exploratory
Otero Chacra & Blanco Mesa Verde

4. Location of Well (Report location clearly and in accordance with any State requirements.)*

11. Sec., T., R., M., or Blk. and Survey or Area
IT 29-27n-8w NMPM

At surface **2245' F&L & 665' FEL**
At proposed prod. zone **Same N**

14. Distance in miles and direction from nearest town or post office*
8 air miles SE of Bloomfield

12. County or Parish **San Juan** 13. State **NM**

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) **2,245'**

16. No. of Acres in lease **2,552.22**

17. Spacing Unit dedicated to this well
**Chacra = NE4 (160 acres)
Mesa Verde = E2 (320 acres)**

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. **1,461'***

19. Proposed Depth **5,200'**

20. BLM/BIA Bond No. on file
BLM nation wide: 57 91 73

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
6,343' ungraded

22. Approximate date work will start*
Upon Approval

23. Estimated duration **5 weeks**

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification.
- Such other site specific information and/or plans as may be required by the authorized officer.

Comments

***to XTO's BOLACK'S C LS 12, a PC & Mesa Verde gas well
APD/ROW (GulfTerra)**



cc: BLM (& OCD), Patton

25. Signature *[Signature]* Name (Printed/Typed) **Brian Wood** Date **8-24-04**

Title **Consultant** Phone: 505 466-8120 FAX: 505 466-9682

Approved by (Signature) *[Signature]* Name (Printed/Typed) **Wayne Townsend** Date **10/9/09**

Title **Acting AFM** Office **FFO**

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

This action is subject to procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

NMOCD

DRILLING OPERATIONS AUTHORIZED AND SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

DISTRICT I
1825 N. Fench Dr., Hobbs, N.M. 88240

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised June 10, 2003
Instructions on back
Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT II
1301 W. Grand Avenue, Artesia, N.M. 88210

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87504-2088

RECEIVED

AUG 25 2004

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

Bureau of Land Management AMENDED REPORT
Farmington Field Office

DISTRICT IV
1220 South St. Francis Dr., Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAN

¹ API Number 30-045-32553		² Pool Code 82329 & 72139	³ Pool Name OTERO CHACRA & BLANCO MESA VERDE
⁴ Property Code 28096	⁵ Property Name BOLACK G		⁶ Well Number 23
⁷ GRID No. 167067	⁸ Operator Name XTO ENERGY INC.		⁹ Elevation 6343

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	29	27-N	8-W		2245	NORTH	665	EAST	SAN JUAN

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
¹² Dedicated Acres 160 (CH) & 320 (MV)					¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.

16 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

QTR. CORNER
FD 3 1/4" BC
BLM 1955

N 89-20-49 W
2454.2' (M)

SEC. CORNER
FD 3 1/4" BC
BLM 1955

2245'

CHACRA

S 03°08'08" E
2670.3' (M)

LAT: 36°32'47" N. (NAD 27)
LONG: 107°41'54" W. (NAD 27)

665'

29 MESA VERDE

QTR. CORNER
FD 3 1/4" BC
BLM 1955

17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

Brian Wood

Signature
BRIAN WOOD

Printed Name
CONSULTANT

Title
AUG. 24, 2004

Date

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plot 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.

Date of Survey

Signature of Professional Surveyor
John R. Yukonich

Professional Surveyor
JOHN R. YUKONICH

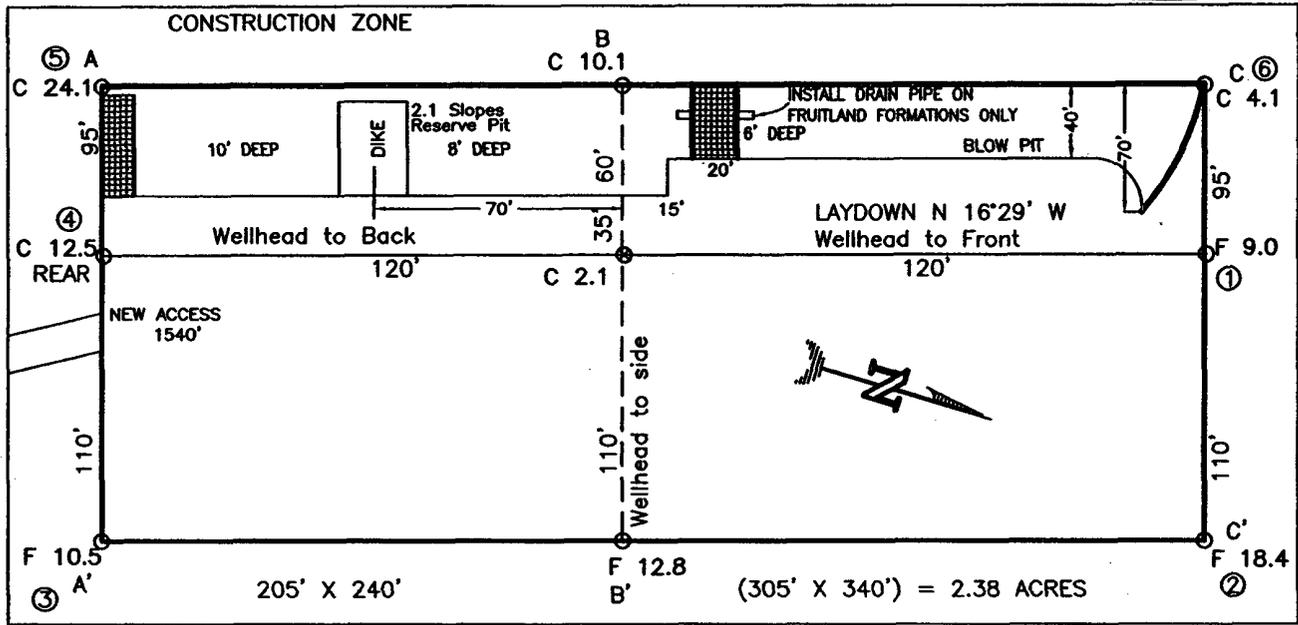
14831

REGISTERED PROFESSIONAL SURVEYOR

Certificate Number

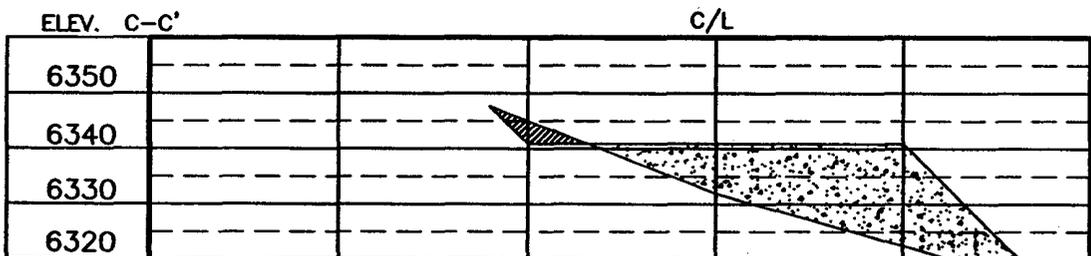
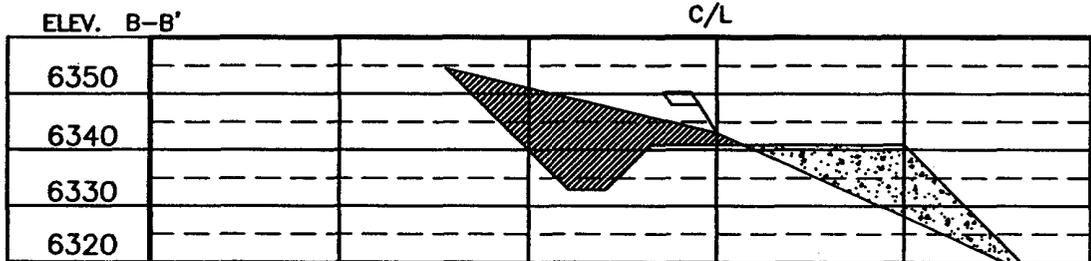
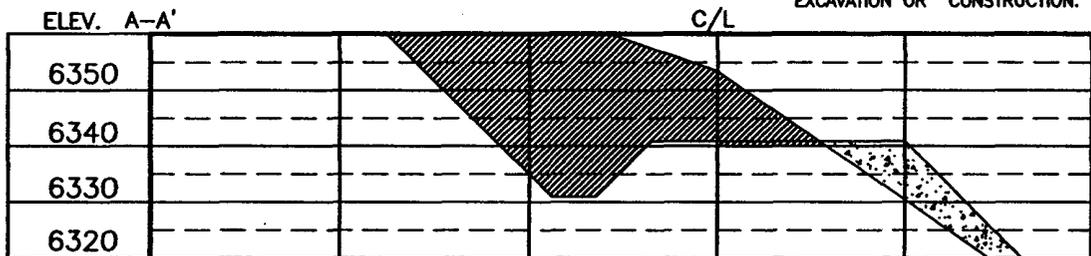
XTO ENERGY INC.
 BOLACK C No. 23, 2245 FNL 665 FEL
 SECTION 29, T27N, R8W, N.M.P.M., SAN JUAN COUNTY, N. M.
 GROUND ELEVATION: 6343, DATE: JUNE 22, 2004

LAT: 36°32'47" N.
 LONG: 107°41'54" W.
 NAD 27



RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW - 3' WIDE AND 1' ABOVE SHALLOW SIDE).
 BLOW PIT: OVERFLOW PIPE HALFWAY BETWEEN TOP AND BOTTOM AND TO EXTEND OVER PLASTIC LINER AND INTO BLOW PIT.

NOTE: DAGGETT ENTERPRISES, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. NEW MEXICO ONE CALL TO BE NOTIFIED 48 HOURS PRIOR TO EXCAVATION OR CONSTRUCTION.



NOTE: CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

REVISION	DATE	REVISION BY
RESTAKE WELL LOC.	07/08/04	B.L.

Daggett Enterprises, Inc.
 Surveying and Oil Field Services
 P. O. Box 15088 • Farmington, NM 87401
 Phone (505) 328-1772 • Fax (505) 328-6019
 NEW MEXICO L.S. No. 14831
 LICENSE CR2800FB
 DRAWN BY: A.G.
 DATE: 03/17/04
 SHEET: CR280

XTO Energy Inc.
 Bolack C 23
 2245' FNL & 665' FEL
 Sec. 29, T. 27 N., R. 8 W.
 San Juan County, New Mexico

Drilling Program

1. ESTIMATED FORMATION TOPS

<u>Formation Name</u>	<u>GL Depth</u>	<u>KB Depth</u>	<u>Elevation</u>
San Jose	000'	12'	+6,343'
Nacimiento	293'	305'	+6,050'
Ojo Alamo Sandstone	1,473'	1,485'	+4,870'
Kirtland Shale	1,643'	1,655'	+4,700'
Fruitland Coal	2,093'	2,105'	+4,250'
Pictured Cliffs Ss	2,353'	2,365'	+3,990'
Lewis Shale	2,453'	2,465'	+3,890'
Chacra	3,293'	3,305'	+3,050'
Mesa Verde Sandstone	4,623'	4,635'	+1,720'
Mancos Shale	4,993'	5,005'	+1,350'
Total Depth*	5,200'	5,012'	+1,143'

* all elevations reflect the ungraded ground level of 6,343'

2. NOTABLE ZONES

<u>Gas or Oil Zones</u>	<u>Water Zones</u>	<u>Coal Zones</u>
Fruitland	Nacimiento	Fruitland
Pictured Cliffs	Ojo Alamo	Menefee
Chacra	Fruitland	
Mesa Verde		

Water zones will be protected with casing, cement, and weighted mud. Fresh water found while drilling will be recorded. Oil or gas shows will be tested for commercial potential based on the geologist's recommendations.

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Bolack C 23
2245' FNL & 665' FEL
Sec. 29, T. 27 N., R. 8 W.
San Juan County, New Mexico

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3. PRESSURE CONTROL

The drilling contract has not yet been awarded, thus the exact BOP system to be used is not yet known. A typical 2,000 psi stack, manifold, and test procedures are on PAGE 3.

4. CASING & CEMENT

	<u>Surface Casing</u>	<u>Production Casing</u>
Interval	0' - 350'	0' - 5,200'
Hole Diameter	12-1/4"	7-7/8"
Casing Diameter	8-5/8"	4-1/2"
Weight (pounds/foot)	24	10.5
Grade	J-55	J-55
Coupling	S T&C	S T&C
Collapse Rating (psi)	1370	4010
Burst Rating (psi)	2950	4790
Joint Strength (M-lbs)	244	132
I. D. (inches)	8.097	4.052
Drift (inches)	7.972	3.875
SF Coll	9.44	1.28
SF Burst	13.72	1.06
SF Ten	33.89	1.87
Centralizers	3	15

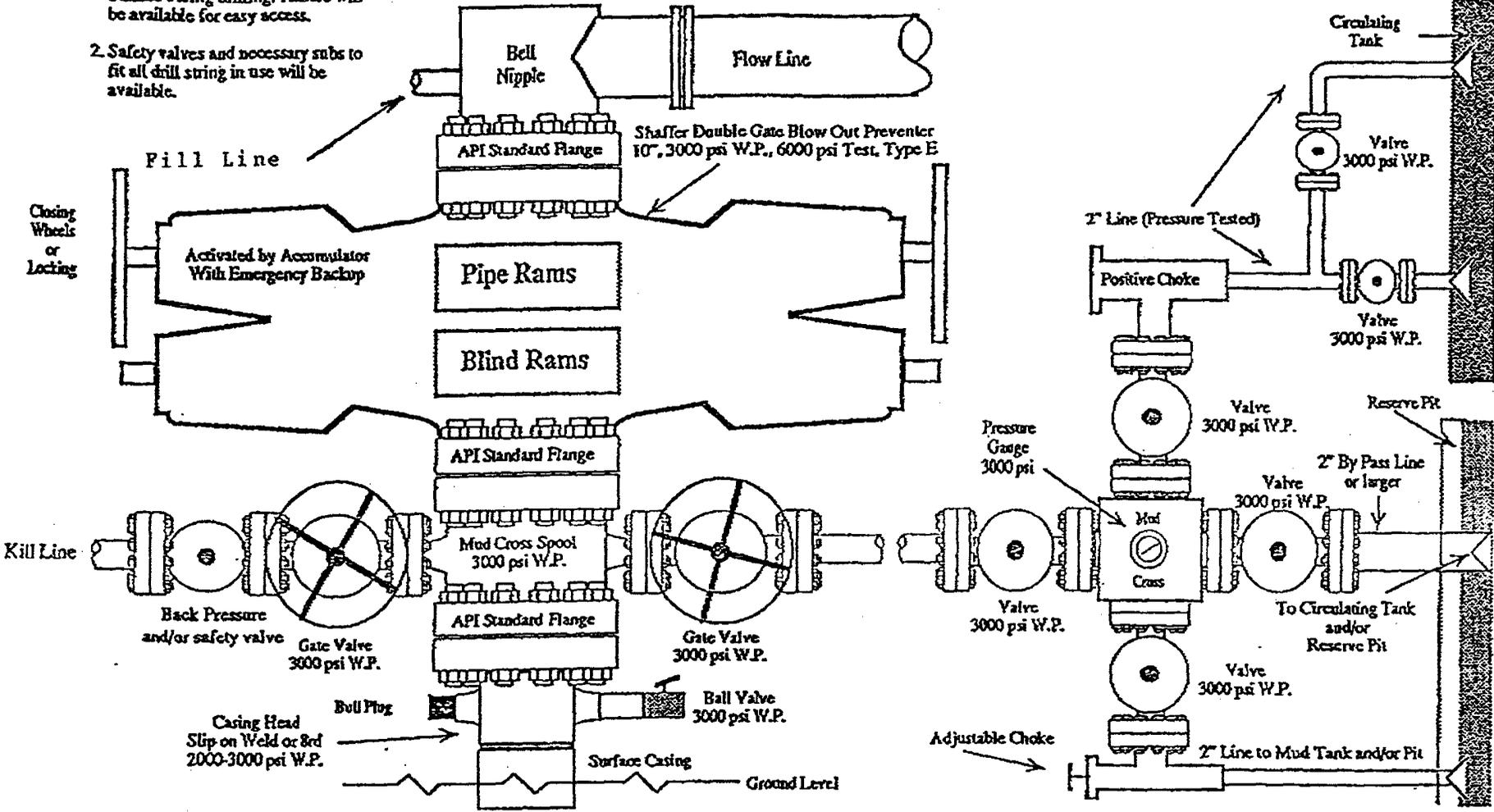
Casing head will be Larkin Fig 92 or its equivalent, 9" nominal 2,000 psi WP, (4,000 psi test) with 8-5/8" 8 rounded thread on bottom, and 11-3/4" 8 rounded thread on top.

Tubing head will be Larkin Fig 612 or its equivalent, 2000 psi WP (4,000 psi test), 4-1/2" 8 rounded female thread on bottom, and 8-5/8" rounded thread on top.

Pressure Control Equipment

Minimum 2" Choke Line.
 Minimum 2" Kill Line.
 At Least One 2" Minimum Kill Line Valve.

- Note: 1. An upper Kelly cock valve will be utilized during drilling. Handle will be available for easy access.
2. Safety valves and necessary subs to fit all drill string in use will be available.



Note: This equipment is designed to meet requirements for a 2-M rating standard per 43 CFR part 3160 (amended). Proper operation and testing of equipment will be carried out per standard. 2,000 psi equipment can be substituted in the drawing to meet minimum requirements per standard.

XTO Energy Inc.
 Bolack C 23
 2245' FNL & 665' FEL
 Sec. 29, T. 27 N., R. 8 W.
 San Juan County, New Mexico

Surface casing will be cemented to surface with ≈ 217 sacks Type III cement with 2% CaCl_2 + 1/4 pound per sack cello flake mixed with 6.33 gallons of water per sack. Weight = 14.8 pounds/gallon. Density = 1.34 cubic feet/sack. Total volume = 290 cubic feet based on >100% excess.

Production casing will be cemented to surface in two stages. DV tool will be set at $\approx 2,600'$. Total first stage volume = 770 cubic feet. Total second stage volume = 770 cubic feet. Volumes to be based on caliper log + 30% excess.

First stage lead will be ≈ 312 sacks 65/35 Class H with 6% gel + 1/4 pound per sack cello flake + 3% NaCl + 0.5% fluid loss additive + 0.2% dispersant mixed with 10.59 gallons of water per sack. Weight = 12.5 pounds/gallon. Yield = 2.08 cubic feet/sack.

First stage tail will be cemented with ≈ 105 sacks Class H + 1/4 pound per sack cello flake + 0.5% fluid loss additive mixed with 5.23 gallons of water per sack. Weight = 15.6 pounds per gallon. Yield = 1.18 cubic feet per sack.

Second stage lead will be cemented with ≈ 215 sacks Class H with 3% extender + 1/4 pound per sack cello flake mixed with 10.19 gallons of water per sack. Weight = 11.2 pounds per gallon. yield = 3.07 cubic feet per sack.

Second stage tail will be cemented with ≈ 105 sacks Class H with 1/4 pound per sack cell flake + 0.5% fluid loss additive mixed with 5.23 gallons of water per sack. Weight = 15.6 pounds per gallon. Yield = 1.18 cubic feet per sack.

5. MUD PROGRAM

<u>INTERVAL</u>	<u>MUD TYPE</u>	<u>WEIGHT</u>	<u>VISCOSITY</u>	<u>WATER LOSS</u>
0' - 350'	Fresh Water-Spud	8.6-9.0	28-32	NC
350' - 2,500'	Fresh Water-Polymer	8.4-8.8	28-32	NC
2,500' - TD	LSND	8.6-9.0	45-60	8-10 cc