

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on
reverse side)

FORM APPROVED
OMB NO. 1004-0136
Expires: February 28, 1995

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

b. TYPE OF WELL

OIL
WELL ☐

GAS
WELL ☒

OTHER

SINGLE
ZONE ☐

MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

XTO ENERGY INC.

3. ADDRESS AND TELEPHONE NO.

2700 Farmington Ave., Bldg. K. Ste 1 Farmington, NM 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
At surface

2690' FNL & 1565' FWL Sec 27, T28N, R04W

At proposed prod. zone

1829' FSL & 2049' FWL Sec 27, T28N, R04W

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

Approx 49 from the Post Office in Blanco, NM.

15. DISTANCE FROM PROPOSED*
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. unit line, if any) 1,075'

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

1,000'

16. NO. OF ACRES IN LEASE

320

19. PROPOSED DEPTH

6,925'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

320

20. ROTARY OR CABLE TOOLS

0-6,925' with Rotary Tools

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

7,249' Ground Level

22. APPROX. DATE WORK WILL START*

Summer of 2002

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8"	32.3#	+/- 80' 320	200 50 sx type III
8-3/4"	7"	20.0#	+/- 3,800'	300 sx cmt (total)
6-1/4"	4-1/2"	10.5#	+/- 6,925'	240 sx cmt (total)

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

DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS"

See the attached Surface Use plan and Drilling Program for the above mentioned well.

ADD DATA FOR Directional Survey

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

DW Patton

TITLE Drilling Engineer

DATE 1/30/02

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

Application approval does not warrant or certify that 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:

APPROVED BY

/s/ David J. Mankiewicz

TITLE

*See Instructions On Reverse Side

DATE

SEP 12

Title 18 U.S.C. Section 1001, makes 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.

DISTRICT I
P.O. Box 1980, Hobbs, N.M. 88241-1980

DISTRICT II
P.O. Drawer DD, Artesia, N.M. 88211-0719

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

DISTRICT IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

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

Form C-102

Revised February 21, 1999.

Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-26924		*Pool Code 72319	*Pool Name BLANCO MESA UPR
*Property Code 52849	*Property Name VALENCIA CANYON UNIT		*Well Number 43C
*OGRID No. 167067	*Operator Name XTO ENERGY INC.		*Elevation 7249'

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
F	27	28-N	4-W		2690'	NORTH	1565'	WEST	RIO ARriba

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
K	27	28-N	4-W		1829'	SOUTH	2049'	WEST	RIO ARriba
*Dedicated Acres 320 5/2			*Joint or Infill I		*Consolidation Code		*Order No.		

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

1565'

2690'

27

SURFACE

BOTTOM HOLE

LAT. 36°37'52"N
LONG. 107°14'32"W

LOCATION IS STAKED RELATIVE TO EXISTING
WELLS AND DRY HOLES ON RECORD WITH
N.M. OIL & GAS CONSERVATION COMMISSION.
SECTION AND QUARTER CORNERS ARE NON-
EXISTANT IN THE AREA. DEPENDENT RESURVEY
OF THE TOWNSHIP IS REQUIRED TO OBTAIN
EXACT DIMENSIONS FROM THE SECTION LINES.

17 OPERATOR CERTIFICATION

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

Signature Jeffrey W Patton
Printed Name JEFFREY W PATTON
Title DRILLING ENGINEER
Date 1-31-02

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.

Date of Survey 8894
Signature and Seal of Professional Surveyor:
[Signature]
8894
Certificate Number

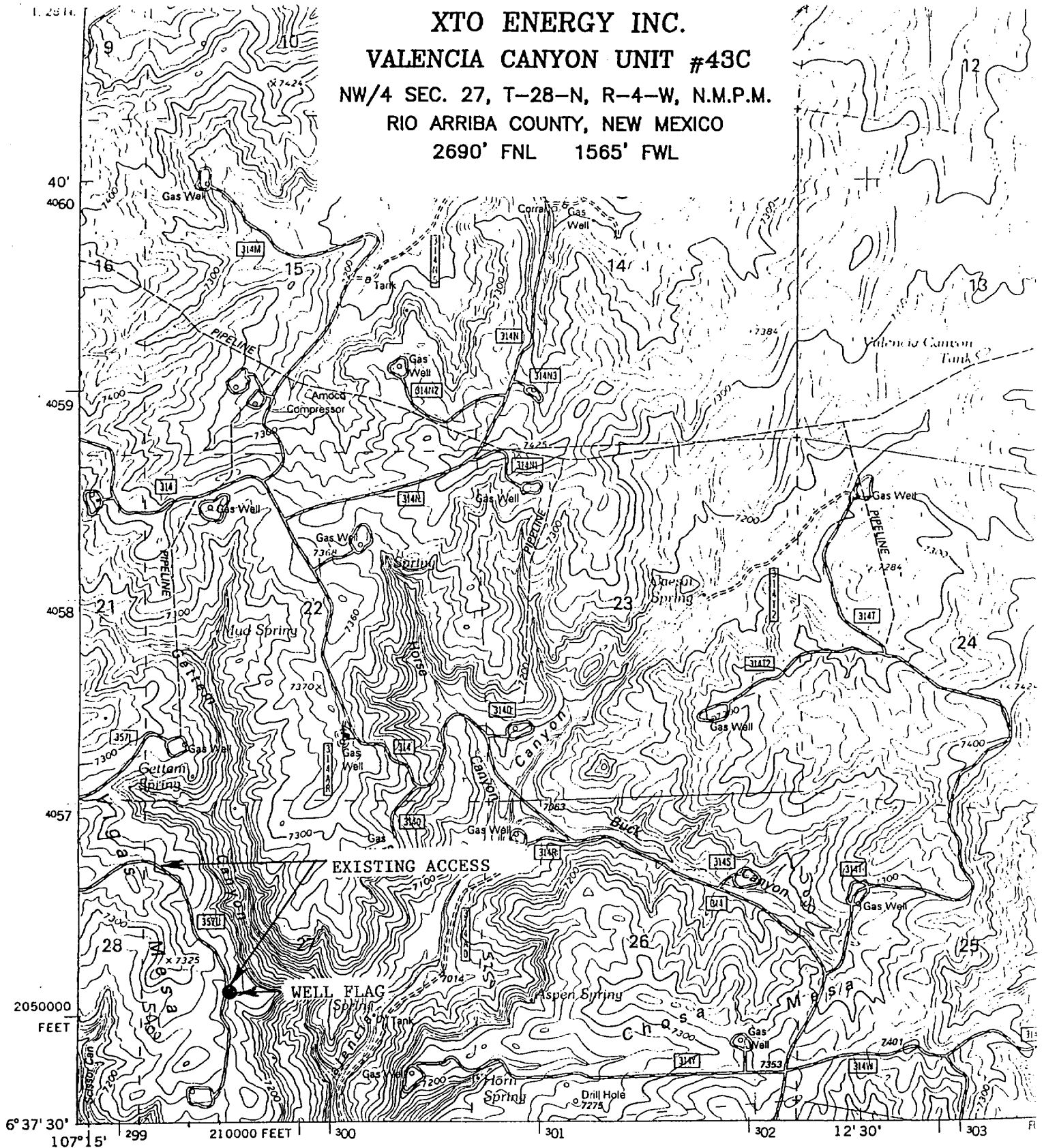
XTO ENERGY INC.

VALENCIA CANYON UNIT #43C

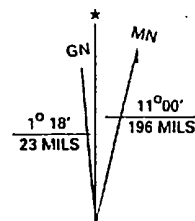
NW/4 SEC. 27, T-28-N, R-4-W, N.M.P.M.

RIO ARriba COUNTY, NEW MEXICO

2690' FNL 1565' FWL



luded by the U.S. Geological Survey
 ised by the U.S. Forest Service
 outside the National Forest System lands may not have been revised
 ol by USGS and NOS/NOAA
 iled from aerial photographs taken 1958 and 1962. Revised from aerial
 raphs taken 1989. Partial field check by U.S. Forest Service 1995
 American Datum of 1927 (NAD 27). Projection and 10000-foot ticks:
 Mexico coordinate system, central zone (Transverse Mercator)
 -meter Universal Transverse Mercator ticks, zone 13 Blue
 American Datum of 1983 (NAD 83) is shown by dashed corner ticks

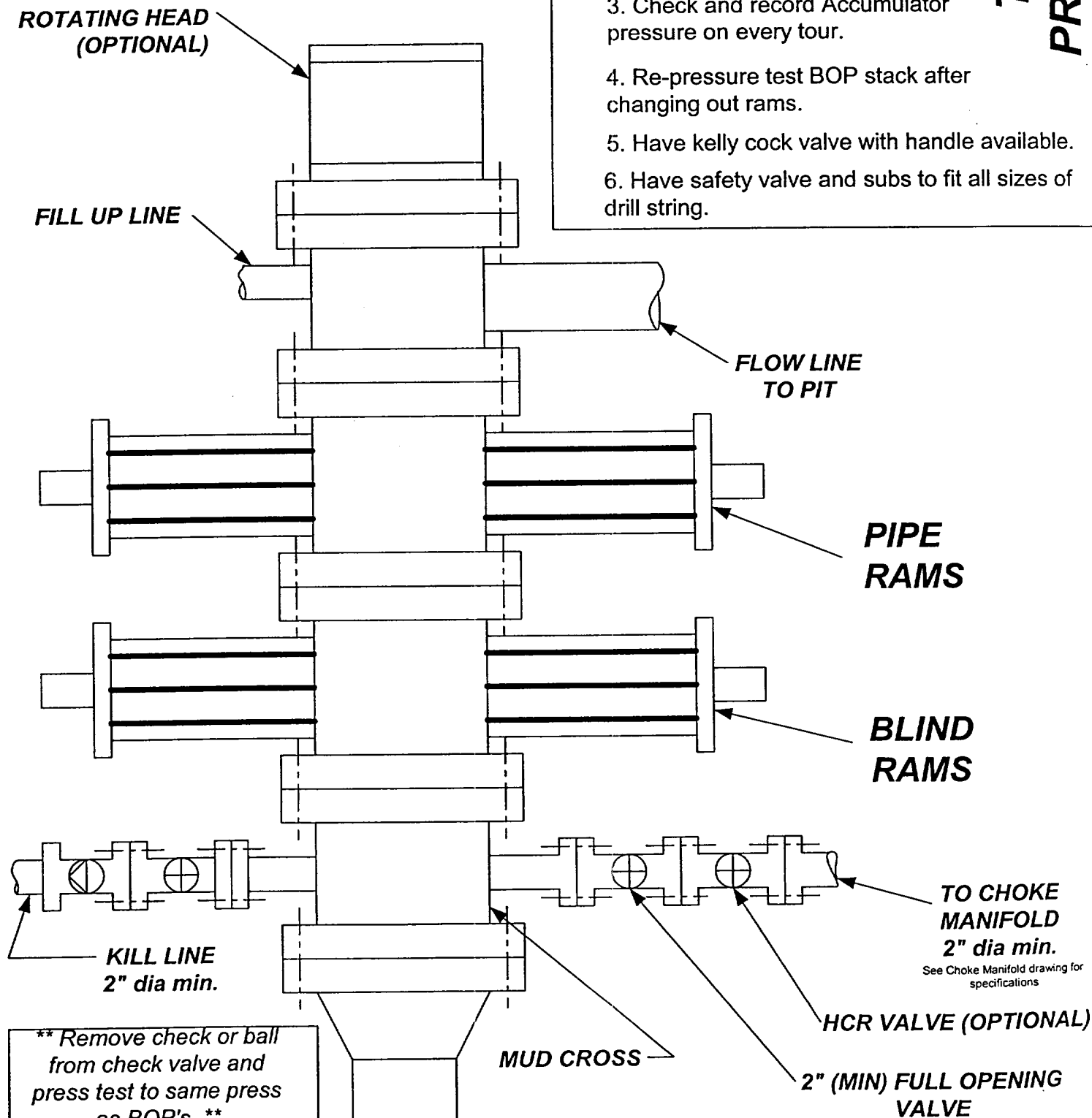


UTM GRID AND 1995 MAGNETIC NORTH

BOP SCHEMATIC FOR DRILLING OPERATIONS CLASS 1 (2M) NORMAL PRESSURE

TESTING PROCEDURE

1. Test BOP after installation:
Pressure test BOP to 200-300 psig (low pressure) for 5 min.
Test BOP to Working Press or to 70% internal yield of surf csg (10 min).
2. Test operation of (both) rams on every trip.
3. Check and record Accumulator pressure on every tour.
4. Re-pressure test BOP stack after changing out rams.
5. Have kelly cock valve with handle available.
6. Have safety valve and subs to fit all sizes of drill string.



XTO ENERGY INC.
Valencia Canyon Unit #43C
PROPOSED DRILLING PROGRAM
APD Data
January 31, 2002

Surface Location: 2,690' FNL & 1,565' FWL, Sec 27, T28N, R04W **County:** Rio Arriba **State:** New Mexico
Bottomhole location : 1,829' FSL & 2,049' FWL, Sec 27, T28N, R04W

PROJECTED TOTAL DEPTH: ±6,810' (TVD) ±6,925 (MD)
GR ELEV: 7,249'

OBJECTIVE: Mesaverde
Est KB ELEV: 7,262' (13' AGL)

1. MUD PROGRAM:

INTERVAL	0' to 80'	400' to 3,800'	3,800' to TD
HOLE SIZE	12-1/4"	8-3/4"	6-1/4"
MUD TYPE	FW/Native Mud	FW/Polymer	Air
WEIGHT	8.6-8.8	8.6-9.0	
VISCOSITY	28-32	29-34	
WATER LOSS	NC	NC	

Remarks: Use fibrous materials as needed to control seepage and lost circulation. Pump high viscosity sweeps as needed for hole cleaning. RU air compressors after setting the intermediate csg. Drill with air or foam to TD.

2. CASING PROGRAM:

320

Surface Casing: 9-5/8" casing to be set at ± 80' in 8.6 ppg mud

Interval	Length	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll	SF Burst	SF Ten
0'- 80' 320' 80'		32.3#	H-40	STC	1370	2270	254	9.001	8.972	5.98	5.68	15.73

Intermediate Casing: 7" casing to be set at ±3,800' (MD) 3,800' (TVD) in 9.0 ppg mud.

Interval	Length	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll	SF Burst	SF Ten
0'- 3,800'	3,800'	20.0#	J-55	STC	2257	3740	234	6.456	6.331	1.15	1.31	2.57

Production Casing: 4-1/2" casing to be set at 6,810' (MD) 6,925' (TVD) in air.

Interval	Length	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll	SF Burst	SF Ten
0'- 6,925' (MD)	6,925'	10.5#	J-55	STC	4010	4790	132	4.052	3.927	1.33	1.20	1.90

3. WELLHEAD:

- A. Braden Head: 9-5/8" x 7" 2,000 psig WP (4,000 psig test).
- B. Intermediate Casing Head: 7" x 4-1/2" 3,000 psig WP (6,000 psig test).

4. CEMENT PROGRAM (Slurry design may change slightly, but the plan is to circulate cement to surface on both casing strings):

- A. Surface: 9-5/8", 32.3#, H-40, STC casing to be set at ± 320 ~~80~~'.

Lead: ²⁰⁰~~50~~ sx of "Type III" cement containing 3% CaCl₂, ¼ pps celloflake, mixed at 14.5 ppg, 1.39 ft³/sk, & 6.20 gal wtr/sk.

Total slurry volume is ²⁷⁸~~70~~ ft³, 277% excess of calculated annular volume to ~~80~~'.

- B. Intermediate: 7", 20.0#, J-55, STC casing to be set at $\pm 3,800'$ (MD).

Lead: 200 sx of Premium Lite (65/35/6)(cement/poz/gel), ¼ pps celloflake and 2% Phenoseal mixed at 11.9 ppg, 2.21 ft³/sk, 10.25 gal wtr/sx.

Tail: 100 sx of "Type III" cement containing ¼ pps celloflake and 2% Phenoseal mixed at 14.5 ppg, 1.41 ft³/sk, 6.30 gal wtr/sx.

Total slurry volume is 583 ft³, circulated to surface. No excess has been added to the above volume of lead and tail cement. Based on actual drilling conditions an excess (usually 35-50%) will be added.

- C: Production: 4-1/2", 10.5#, J-55, STC casing to be set at $\pm 6,810'$ (TVD) 6,925' (MD).

Lead: 90 sx of Premium Lite (65/35/6)(cement/poz/gel) containing 2% KCl, ¼ pps celloflake, 4% Phenoseal, 0.2% dispersant, 0.5% fluid loss mixed at 11.9 ppg, 2.21 ft³/sk, 10.25 gal wtr/sx.

Tail: 150 sx of Class "H" cement containing ¼ pps celloflake, 4% Phenoseal and 0.6% FI-62 mixed at 15.6 ppg, 1.18 ft³/sk, 4.80 gal wtr/sx..

Total estimated slurry volume for the 4-1/2" production casing is 376 ft³ for 3,665' of fill. Est. TOC should be 200' into the 7" intermediate casing. The above cement volumes for both the lead & tail do not have any excess. Excess cement will be calculated from the caliper log + 40%'.

Note: The slurry design may change slightly based upon actual conditions. Final cement volumes will be determined for the caliper logs plus 40%. .

5. LOGGING PROGRAM:

- A. Mud Logger: There are no plans to use a mud logger at this time.
- B. Open Hole Logs as follows: Run Dual Induction/SFL/GR/CAL/SP/CNL/LDT (lithodensity) from TD to the bottom of the intermediate csg. Run cased hole GR/CCL from TD to surface.