Form 3160-3 (April 2004)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB NO. 1004-0137 Expires March 31, 2007

	APPLICATION FOR	PERMIT TO DRILL	OR REENTER	1	ease Serial No. TIC 154	
la. Type of Work	DRILL	REENTE	R		f Indian, Allotee o	r Tribe Name
1b. Type of Well			IICARILLA AI			
10. Type of Wea	Oil Well 🗶 Gas	Well Other	2)	٠ ١	nd of CA Agreen N/A	nent Name and No.
2. Name of Operato	or .		KE		èase Name and W	/ell No.
XIO Energy In	c.		ATA TAT		JICARTILIA AE	PACHE #10G
3a. Address	han 3am - 1914 - 17 - 16		3b. Phone No. (include area co	, 9. A	PI Well No.	191
4. Location of Well	ton Ave., Bldg. K. S (Report location clearly and i	n accordance with any State	NM 505-324-1090 e equirements)*		30-039- <i>30/</i>	
	75' FNL x 2355' FWL	ŕ	• ,		ield and Pool, or I SS DK/BL MV/	BS MC/OT CH
At proposed prod.	70ne			11.8	ec., T., R., M., or	Blk. and Survey or Ar
	2444				(F) SEC 27,	
	and direction from nearest tow	•			county or Parish	13. State
		s Southeast of Blo	confield, NM post office		ARRIBA	I NM
 Distance from pre- location to neares 			16. No. of Acres in lease	17. Spacing	Unit dedicated to	this well
property or lease (Also to nearest o	line, ft	2175'	2560	DK,MV	: N2 320 - N	4C,CH: NW4 160
18. Distance from pr			19. Proposed Depth	20. BLM/E	BIA Bond No. on	file
applied for, on th	rilling, completed, is lease, ft. 130	יי	78001		UIB000	138
21. Elevations (Show	whether DF, KDB, RT, GL, e	ic.	22. Approximate date work will star	rt*	23. Estimated dur	ation
6517' GRO	UND ELEVATION		AUGUST 2007	AUGUST 2007		
		24	. Attachments		RCV	D MAY4'07 CONS. DIV.
The following, compl	eted in accordance with the re	quirements of Oushore Oil a	ind Gas Order No. 1, shall be attached	to this form		0151.3
Well plat certifies	d by a registered surveyor.		4. Bond to cover the operati	: - 1	-	
2. A Drilling Plan	o oy a registered surveyor.		Item 20 above).	IOUS ULIFOSS C	Overed by all exis	ring point on the (see
	an (if the location is on Nation					
SUPO shall be fil	led with the appropriate Forest	Service Office).	Such other site specific in authorized officer.	tormation ar	nd/or plans as may	be required by the
25. Signuature	101/1	N	ame (Printed/Typed)		Date	
*	yla laugh	en 1	lyla Vaughan			01/31/07
Title	0	<u> </u>		•		
Regulatory	Compliance Tech					
Approved by (Signary		1	ame (Printed/Typed)		Date	-/3/07
Title	Il Mgalless		ffice	 		,,-, .
2 ICC	AFM	,	FFO			
Application approval conduct operations the		hat the applicant holds lega	or equitable title to those rights in	the subject l	ease which would	d entitle the applicant to
Conditions of approv	al, if any, are attached.	*				
Title 18 U.S.C. Section States any false, fictit	on 1001 and Title 43 U.S.C. So lous or fraudulent statements of	ection 1212, make it a crime or representations as to any	e for any person knowlingly and willfumatter within its jurisdiction.	lly to make	to any department	t or agency of the Unite
*(Instructions on pag	e 2)	NOTIEV A	7TEC	DÓ		<u></u>
	9 /	NOTIFY AZ	ZTEC OCD 24 H	HS.		
	\bigvee	PRIOR TO	CASING & CEM	EME	ITHORIZED ARE	
	This school is subject to tech Blockshoom review pursuant t	1 cal and 0.43 CFR 3165.5	SHRJEGITUL	OWN LICHTON		ED .
	676 5370 at review bursuant to 43 C	FR 31 <i>6</i> 5.4	"GENERAL RE	QUIREMENT	S	

NMOCD 5/9/07 ⁸⁄₂

DISTRICT I 1625 N. French Dr., Hobbs, N.M. 88240

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

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

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr. FEB Santa Fe, NM 87505

Form C-102 Revised October 12, 2005 Submit to Appropriate District Office

5 ST 11 34 State Lease - 4 Copies
Fee Lease - 3 Copies

RECENTA

FI AMENDED REPORT

1220 South St. Francis Dr.,	Santo Fe, NM 87505		777 5	Paka Malanda (1965), 22 Pamarangan menganan Pakabananan menganan		MULU KEFORT
	WELL LO	CATION AND	ACREAGE DED			
30-039-3	30191 719	Pool Code 599	BASIN.	DAKOTA		
Property Code	30380	⁵ Prope	rty Nome		• •	Nell Number
70GRID No.	26478		A APACHE			* Elevation
5380		•	ERGY INC.			6517
		¹º Surfa	ce Location			
UI, or lot no. Section F 27	Township Ronge 26-N 5-W	Lot Idn Feet from the 2175	North/South line	Feet from the 2355	East/West line WEST	County RIO ARRIBA
	¹¹ Bottor		n If Different Fro			
UL or lot no. Section	Township Range	Lot Idn Feet from the	ne North/South line	Feet from the	East/West line	County
12 Dedicated Acres	¹⁵ Joint or Infill	14 Consolidati	on Code	¹⁵ Order No.	RCVD	MAY4'07
N/2 320)	• .,			OIL C	ONS. DIV
NO ALLOWABLE	WILL BE ASSIGNED OR A NON-STAN	TO THIS COMPLI	ETION UNTIL ALL S BEEN APPROVE	INTERESTS HA	AVE BEEN AG	NSOLIDATED
CAICID COR BY PROJECTION 2355' CAICID COR BY PROJECTION	2175'	9-54-36 S 11.4' (C) LAT: 36.45892' N. LONG: 107.34737' LAT: 36'27'32.1" N. LONG: 107'20'48.4" V	W. (NAD 83) (NAD 27)	I hereby cer is true and belief, and the interest or including the right to drill contract with interest, or compulsory division. Signature Printed Nam 18 SU I hereby certify was plotted from or under my second to the	that this organization unleased mineral interese proposed bottom had this local or a voluntary pooling order heretofold with the well to a voluntary pooling order heretofold with the well location field notes of actual upervision, and that the best of my belief.	ion contained herein t of my knowledge and either owns a working est in the land she location or has a ation pursuant to a a mineral or working g agreement or a are entered by the RTIFICATION on shown on this plat ill surveye made by me
CALC'D COR. BY SINGLE PROP.				Cartificate Nur	OFESSION	

DISTRICT 1 1625 N. French Dr., Hobbs, N.M. 88240 State of New Mexico Energy, Minerals & Natural Resources Department

Revised October 12, 2005

County RIO ARRIBA

Form C-102

DISTRICT II 1301 W. Grand Ave., Artesia, N.M. 88210 OIL CONSERVATION DIVISION FEB 1220 South St. Francis Dr. Santa Fe, NM 87505 DISTRICT III 1000 Rio Brozos Rd., Aztec, N.M. 87410

UL or lot no.

F

RECEIVED

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

Section

27

Township

26~N

CTO FARMINGTON MAMENDED REPORT

East/West line

WEST

WELL LOCATION AND ACREAGE DEDICATION PLAT 191 72319 BLANCO MESAVERDE 3Property Name *Well Number

 *Property Code
 30370
 *Property Name
 *Well Number

 3D330
 JICARILLA APACHE
 10G

 *Operator Name
 *Elevation

 5380
 XTO ENERGY INC.
 6517

Range Lot Idn Feet from the North/South line Feet from the 5-W 2175 NORTH 2355

"Bottom Hole Location If Different From Surface Feet from the North/South line Feet from the Lot Idn Egst/West line UL or lot no. Section Township Ronge County RCUD MAY4'07 Dedicated Acres 13 Joint or Infill 14 Consolidation Code 15 Order No. OIL CONS. DIV. 320 DIST. 3

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

1	6	OR A NON-S	TANDARD UNIT HAS E	BEEN APPROVED B	Y THE DIVISION
	CALC'U COR. BY PROJECTION 2355' 3 14 (J)		S 89-54-36 E 5311.4' (C) LONG: 36.45892' N: LONG: 107.34737' W: LAT: 36'25'32.1" N. (N/ LONG: 107'20'48.4" W. ((NAD 83)	
	CALC'D COR. BY SINGLE PROP.		27		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 beller. FEBRUARY 13, 2006 Date of Survey Signature and THEST CONTROLL THE THEST CONTROLL THE THE THEST CONTROLL THE

DISTRICT I 1625 N. French Dr., Hobbs, N.M. 88240

State of New Mexico Energy, Minerals & Natural Resources Department

Revised October 12, 2005 Submit to Appropriate District Office

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

OIL CONSERVATION DIVISION

State Lease - 4 Copies

Form C-102

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

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

2007 FEB 5 AM 1 fem Lbase - 3 Copies

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

RECEIVED - AMENDED REPORT

		٨	VELL LO	CATIO	N_AND_AC	REAGE DEDI	CATION PL	ÀÍ		
30-039	umber 37	0191		Pool Code 232	V	IC BASI	NI POOL Home	COS		
Property Code	5 2	30300 Property Name JICARILLA APACHE								Number OG
OGRID No.		0110			*Operator N	lome			• Ele	vation
5380	>				XTO ENERG	Y INC.			65	517
					¹⁰ Surface					••••
UL or lot no.	Section 27	Township 26-N	Range 5-W	Lot Idn	Feet from the 2175	North/South line NORTH	Feet from the 2355	Ecst/West WES		County RIO ARRIBA
<u> </u>			"Botto	m Hole	Location II	Different Fron				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	Eqst/West	RCVD M	County AY4'07
Dedicated Acres	16	0 2	oint or Infill		¹⁴ Consolidation Co	ode	¹³ Order No.	(DIL CON DIST	15. DIV.
NO ALLOWA	BLE W					ON UNTIL ALL I EEN APPROVED			N CONS	OLIDATED
© 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	55			LONG: 1 LAT: 36'2		D 27)	I hereby ce is true and belief, and interest or including th right to dri contract will interest, or compulsory division. Signature Printed Non 18 SU I hereby certiff was plotted from	ertify that the complete to that this organized mine reproposed both this well at the on owner of to a voluntor pooling order pooling order provided the proposed both the provided pro	information the best of inization eitherest in attachment in the left of the such a mir y pooling agricherestore e	pursuant to a pursuant to a pursuant to a pursuant to a pursuant or a pu
CALC'D COR. BY SINGLE PROP.							FEBRUAL Date of Surv	RY 13, 20	Monitorio	8

DISTRICT (1625 N. French Dr., Hobbs, N.M. 88240

State of New Mexico Energy, Minerals & Natural Resources Department

Revised October 12, 2005 Submit to Appropriate District Office

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

OIL CONSERVATION DIVISION

Form C-102

DISTRICT III 1000 Rio Brozos Rd., Aztec, N.M. 87410 1220 South St. Francis OF FEB

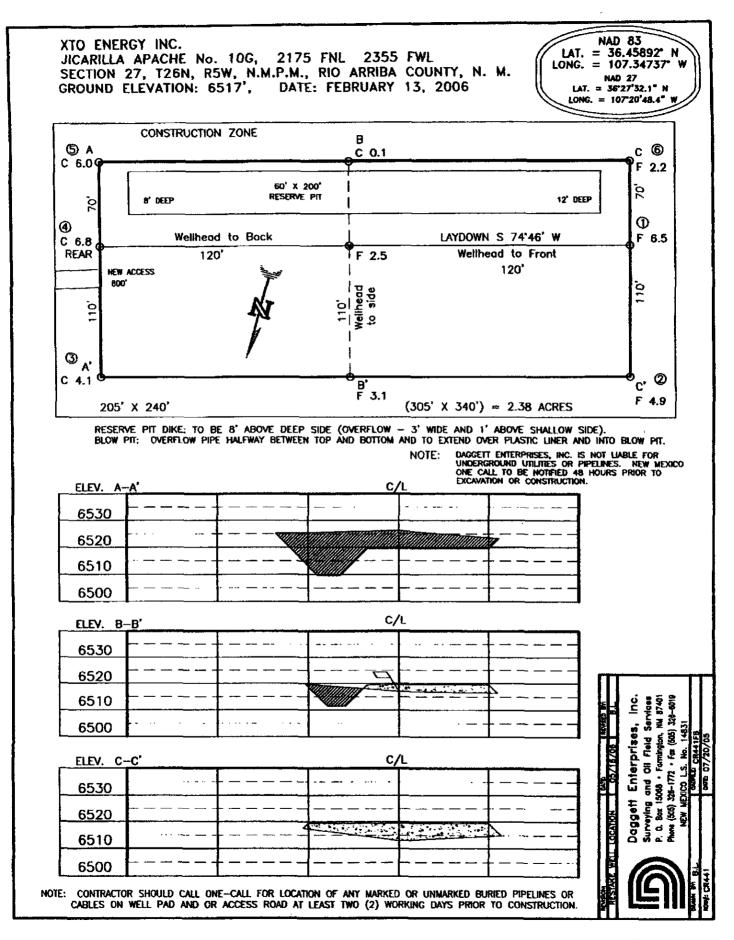
State Lease - 4 Copies
Fee Lease - 3 Copies

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

RECENTED ☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT Well Number ⁵Property Name JICARILLA APACHE 10G *Operator Name Flavation XTO ENERGY INC 6517 ¹⁰ Surface Location Feet from the North/South line East/West line UL or lot no. Section Township Range Lot Idn Feet from the County RIO ARRIBA NORTH 2175 WEST 5-W 2355 27 26-N "Bottom Hole Location If Different From Surface North/South line UL or lot no. Lot Idn Feet from the Feet from the East/West line Section Township Ronge County RCVD MAY4'07 13 Joint or Infill 14 Consolidation Cade 12 Dedicated Acres 15 Order No. OIL CONS. DIV. ΝW DIST. 3 WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION CALC'D COR. CALC'D COR. S 89-54-36 E OPERATOR CERTIFICATION BY PROJECTION 5311.4' (C) I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hale location or has a right to drill this well at this location pursuent to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the LAT: 36.45892' N. (NAD 83) LONG: 107.34737' W. (NAD 83) LAT: 36'27'32.1" N. (NAD 27) LONG: 107'20'48.4" W. (NAD 27) 2355 9 SURVEYOR CERTIFICATION <u>.</u> I hereby certify that the well location shown on this plat 5281. was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and m correct to the best of my belief. FEBRUARY 13, 2006 ANDFESSIONAL CALC'D COR. BY SINGLE PROP.

Submit 3 Copies To Appropriate District	State of New Me			Form C-103
Office District I	Energy, Minerals and Natur	ral Resources	WELL API NO.	May 27, 2004
1625 N. French Dr., Hobbs, NM 87240 District II	OIL CONSERVATION	N DIVISION	WELL APINO.	
1301 W. Grand Ave., Artesia, NM 88210 District III	1220 South St. Fra		5. Indicate Type of	Lease
1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, NM 8		STATE □	FEE 🗆
District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505			6. State Oil & Gas	Lease No.
	ES AND REPORTS ON WEL			Jnit Agreement Name:
(DO NOT USE THIS FORM FOR PROPO DIFFERENT RESERVOIR. USE "APPLIC PROPOSALS.)			JICARILLA APACH	Ē.
1. Type of Well:			8. Well Number	
Oil Well Gas Well X	Other		#1C)G
2. Name of Operator XTO Energy Inc.			9. OGRID Number 538	0
3. Address of Operator			10. Pool name or V	
2700 Farmington Ave., Bldg	. K. Ste 1 Farmington, N	4 87401	BS DK/BL MV/BS 1	AC/OT CH
4. Well Location				
Unit Letter	2175 feet from the NO	ECH line and	2355 feet from	n the WEST line
Section 27	Township 26N	Range 5w	NMPM NMPM	County SAN JUAN
e de la companya de La companya de la co	11. Elevation (Show whether	DR. RKB, RT, GR, et	c.)	
Pit or Below-grade Tank Application				,
Pit type DRILL Depth to Groundwater	Distance from nearest fres	h water well >1000 Dis	stance from nearest surfac	ce water 1-00
Pit Liner Thickness: 12 mil	Below-Grade Tank: Volume.			
	·			
12 Check A	ppropriate Box to Indicate	Nature of Notice	Report or Other	Data
NOTICE OF INTE		1	SEQUENT REP	
PERFORM REMEDIAL WORK		REMEDIAL WORK		ALTERING CASING
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRILLI	NG OPNS.	PLUG AND
PULL OR ALTER CASING	MULTIPLE	CASING TEST AND		ABANDONMENT
	COMPLETION	CEMENT JOB		
OTHER: PIT	<u>x</u>	OTHER:		
 Describe proposed or completed of starting any proposed work). or recompletion. 	-		-	
YW Rooms along to inch	all a lined pit on location	n for drilling		
AND EXECUTE PARTIES OF TIME	ni a misa pic di 1004010	n not chilling.		
		•		
I hereby certify that the information al				
grade tank has been will be constructed or c	losed scoording to NMOCD guideline			native OCD-approved plan
SIGNATURE TO WO	11.1			DATE01/31/07
Type or print name Ryla Vaughan	U E-r	nail address: ky:	la_vaughan@xtoene: Telepi	rgy.com none No. 505-564-6726
For State Use Only	/ DEMA	ITY OIL A GAS INSPEC	TOR, DIST.	ranc a a
APPROVED BY	TT	TLE	ת	ATE MAY U 9 ZUU
Conditions of Approval, if any: VI,	notable amon, Pits +	obeclused in	nder NM Och	gridelines
APPROVED BY Conditions of Approval, if any: Vu		· · · · · · · · · · · · · · · · · · ·	F۱	(HIBIT D
				AND REPORT A COMMENT



XTO ENERGY INC.

Jicarilla Apache #10G APD Data January 26, 2007

Location: 2175' FNL x 2355' FWL Sec 27, T26N, R5W County: Rio Arriba State: New Mexico

GREATEST PROJECTED TD: 7800'

OBJECTIVE: Basin Dakota / Blanco Mesaverde

Est KB ELEV: <u>6529' (12' AGL)</u>

1. MUD PROGRAM:

APPROX GR ELEV: 6517'

INTERVAL	0' to 360'	360' to 2500'	2500' to 7800
HOLE SIZE	12.25"	7.875"	7.875"
MUD TYPE	FW/Spud Mud	FW/Polymer	LSND / Gel Chemical
WEIGHT	8.6-9.0	8.4-8.8	8.6- 9.20
VISCOSITY	28-32	28-32	45-60
WATER LOSS	NC	NC	8-10

Remarks: Use fibrous materials as needed to control seepage and lost circulation. Pump high viscosity sweeps as needed for hole cleaning. Raise viscosity at TD for logging. Reduce viscosity after logging for cementing purposes.

2. CASING PROGRAM:

Surface Casing: 8.625" casing to be set at ± 360' in a 12-1/4" hole filled with 9.20 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'-360'	360'	24.0#	J-55	ST&C	1370	2950	244	8.097	7.972	7.950	17.13	28.24

Production Casing: 5.5" casing to be set at TD (±7800") in 7.875" hole filled with 9.20 ppg mud.

					Coll	Burst	7. 0.	Б		GE.	G.F.	3.0
Interval	Length	Wt	Gr	Cplg	Rating (psi)	Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll	SF Burst	SF Ten
	<u> </u>					<u> </u>	.\		· · · · · ·			
0'-7800	7800'	15.5#	J-55	ST&C	4040	4810	202	4.950	4.825	1.08	1.29	1.67

3. WELLHEAD:

- A. Casing Head: Larkin Fig 92 (or equivalent), 9" nominal, 2,000 psig WP (4,000 psig test) with 8-5/8" 8rnd thread on bottom and 11-3/4" 8rnd thread on top.
- B. Tubing Head: Larkin Fig 612 (or equivalent), 6.456" nominal, 2,000 psig WP (4,000 psig test), 5-1/2" 8rnd female thread on bottom (or slip-on, weld-on), 8-5/8" 8rnd thread on top.

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

A. Surface:

8.625", 24.0#, J-55, ST&C casing to be set at \pm 360' in 12-1/4" hole.

214 sx of Type III cement (or equivalent) typically containing accelerator and LCM, mixed at 14.5 ppg, 1.39 ft³/sk, & 6.70 gal wtr/sk.

Total slurry volume is 297 ft³, 100% excess of calculated annular volume to 360'.

B. <u>Production:</u> 5.5", 15.5#, J-55 (or K-55), ST&C casing to be set at ± 7800 ' in 7.875" hole. DV Tool set $\textcircled{a} \pm 4700$ '

1st Stage

LEAD:

±259 sx of Premium Lite HS (Type III/Poz/Gel) or equivalent, with dispersant, fluid loss, accelerator, & LCM mixed at 12.5 ppg, 2.01 ft³/sk, 10.55 gal wtr/sx.

TAIL:

150 sx Type III or equivalent cement with bonding additive, LCM, dispersant, & fluid loss mixed at 14.2 ppg, 1.54 cuft/sx, 8.00 gal/sx.

2nd Stage

LEAD:

±398 sx of Type III or equivalent cement with 8% gel & LCM mixed at 11.9 ppg, 2.54 ft³/sk, 15.00 gal wtr/sx.

TAIL:

100 sx Type III neat mixed at 14.5 ppg, 1.39 cuft/sx, 6.3 gal/sx.

Total estimated slurry volume for the 5-1/2" production casing is 1902 ft³.

Note: The slurry design may change slightly based upon actual conditions. Final cement volumes will be determined from the caliper logs plus 40%. It will be attempted to circulate cement to the surface.

5. LOGGING PROGRAM:

- A. Mud Logger: The mud logger will come on at 2,900' and will remain on the hole until TD. The mud will be logged in 10' intervals.
- B. Open Hole Logs as follows: Run Array Induction/SFL/GR/SP fr/TD (7800') to the bottom of the surface csg. Run Neutron/Lithodensity/Pe/GR/Cal from TD (7800') to 3,000'.



FORMATION TOPS:

Est. KB Elevation: 6529'

FORMATION	Sub-Sea	MD	FORMATIO N	TV Sub- Sea	MD
Ojo Alamo SS	4134	2,498	Gallup	339	6,293
Kirtland Shale	3997	2,635	Greenhorn	-522	7,154
Farmington SS			Graneros	-576	7,208
Fruitland Formation	3941	2,691	Dakota 1*	-600	7,232
Lower Fruitland Coal	3667	2965	Dakota 2*	-628	7,260
Pictured Cliffs SS	3616	3,016	Dakota 3*	-696	7,328
Lewis Shale	3445	3,187	Dakota 4*	-735	7,367
Chacra SS	2709	3,923	Dakota 5*	-773	7,405
Cliffhouse SS**	1922	4,710	Dakota 6*	-842	7,474
Menefee	1860	4,772	Burro Canyon	-883	7,515
Point Lookout SS**	1409	5,223	Morrison*	-995	7,627
Mancos Shale	1042	5,590	TD	-1168	7,800

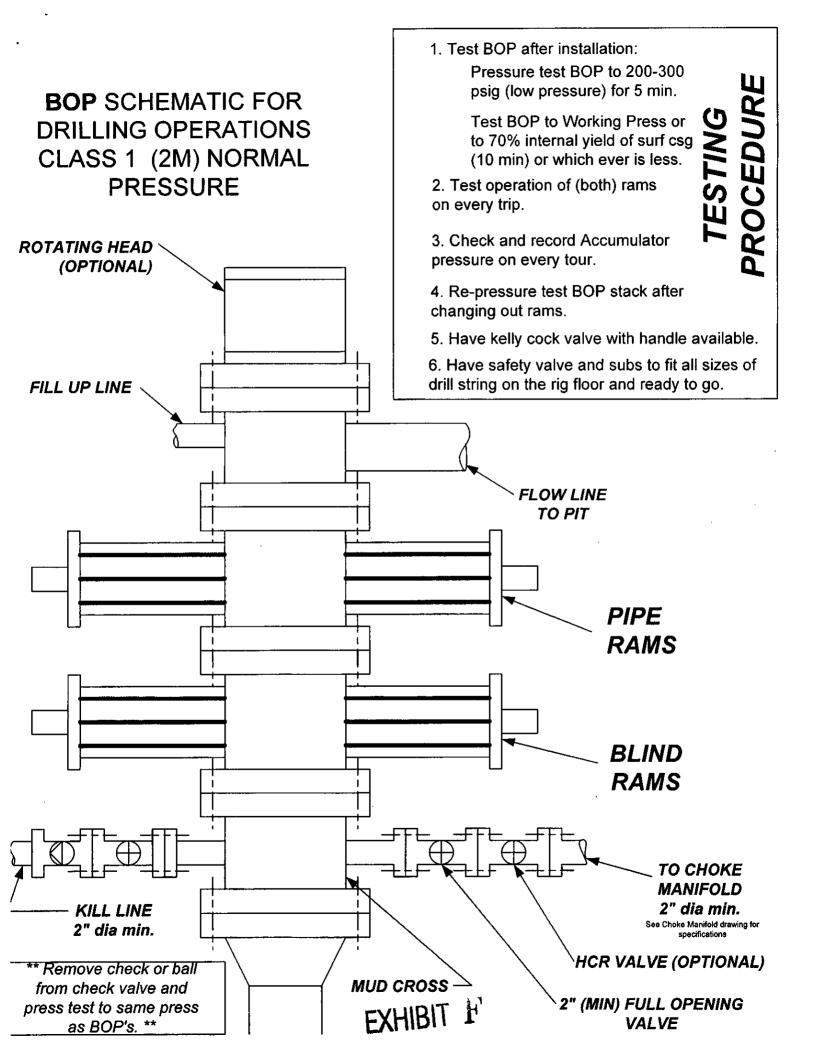
**** Maximum anticipated BHP should be <2,000 psig (<0.30 psi/ft) *****

7. COMPANY PERSONNEL:

Name	Title	Office Phone	Home Phone
John Egelston	Drilling Engineer	505-564-6734	505-330-6902
Jerry Lacy	Drilling Superintendent	505-566-7917	505-320-6543
John Klutsch	Project Geologist	817-885-2800	

JWE 1/26/07

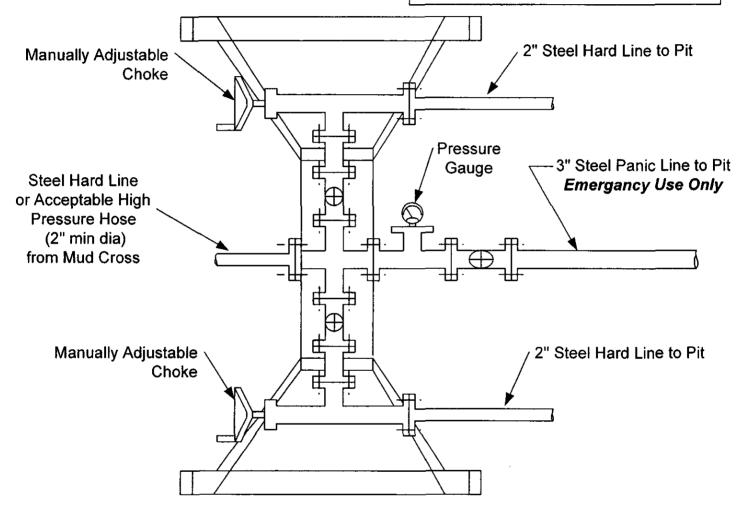
^{*} Primary Objective ** Secondary Objective



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

- 1. Stake all lines from choke manifold to pit.
- 2. Pressure test choke monifold after installation.
- 3. Pressure test manifold at the same time with the BOP Stack. Test manifold to the same test pressures.

TESTING PROCEDURE



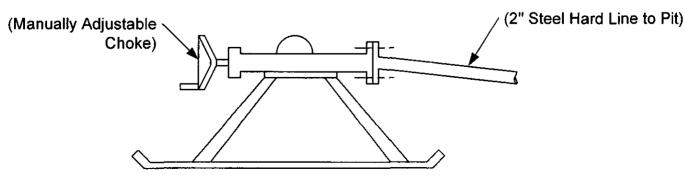


EXHIBIT F