. 🛵		:		grade see a grade	e e	in pulsates		A. A.	٠
Porm 3160 <sub>5</sub> 3 (August 1999)		•						PPROVED 1004-0130 1004-0130	
· 	.•	<b>CEPARTMEN</b>	TED STATES T OF THE INT LAND MANAGI			-	5. Lease Serial No.	4MA	NANSION
	APPLICAT			LL OB REENTE	R <sub>H</sub> AA	10 49	6. If Indian, Allotte	or Tribe	Name N/A
la. Type of W	ork: 🗹 DRILL		REENTER	7	EGENVER	)	7. If Unit or CA Agr	ement, Na	nme and No. N/A
1b. Type of V	Well: 🔲 Oil Well	Gas Well	Other	Single Zone	Mulup	le Zone	8. Lease Name and \	Vell No.	lartman 3
2. Name of	Operator	XTO Er	nergy Inc.				9. API Well No. 30-045-	325	94
	2700 Farmii Farmington		, Diag It-I	3b. Phone No. (include (505) 32			10. Field and Pool, or		in Dakota
				ny State requirements?	7777777	102	11. Sec., T., R., M., o	Blk. and	Survey or Area
At surfac	e 79 sed prod. zone Sa	0' FNL & 8'	90' FEL		SEP 3		A 26-	30n-1	1w NMPM
14. Distance in	miles and direction	from nearest town	or post office*		2004		12. County or Parish San Juan	/	13. State
15. Distance f	rom proposed*			16. No. of Acres in le	ase >	17. Spacing	Unit dedicated to this	well	
	o nearest or lease line, ft. earest drig. unit line,	if any)	430'*	315.77	C: - 3g	1	(319.53 acre		
to nearest	om proposed location well, drilling, complet, on this lease, ft.		360'**	19. Proposed Depth?	4.57.77		IA Bond No. on file  I nation wide	: 57 9	1 73
	s (Show whether DF	KDB, RT, GL, e	tc.)	22. Approximate date		ırt*	23. Estimated durati		
6,019	' ungraded			Upon App				6 W	eeks
				24. Attachment					
<ol> <li>Well plat or</li> <li>A Drilling I</li> <li>A Surface I</li> </ol>	ertified by a registere	d surveyor.	Forest System Land	ds, the	and to cover the m 20 above).	ne operation cation. specific infor	is unless covered by ar mation and/or plans as		•
;		lartman 2,		to closest co l Cliffs gas w		tizatioo	n boundary		
•	5,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Jun 1 611 a)							
man evaluati	on in subject to tect rat review pursuant leat oursuant to 43 (	to 43 CFH 3165.3	SUBJECT <b>"GENE</b> RA	OPERATIONS AUTHO TO COMPLIANCE WIT LE REQUIREMENTS".	H ATTACHED				
	on Carriera Co.	1 1	/		دسه د ۱۹۰۰ هیوره بده اد سور دی	, .lee	cc: BLM	(& OC	D), Patton
25. Signature	Sil	rest	/	Name (Printed		Brian W	lood	Date	8-2-04
Title	Consulta	ant	Phone: 50	5 466-8120		FAX: 50	5 466-9682		
Annroyed by	Cianatural .		_	' N (D)					

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.

Office

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.

Title

Conditions of approval, if any, are attached.

DISTRICT 1 1825 N. French Dr., Hobbs, N.M. 88240

DISTRICT II (5) 1301; W. Grand Ave., Artesia, N.M. 88210

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

# State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102 Revised June 10, 2003

Submit to Appropriate District Office State Lease — 4 Copies

Cortificate Number

Fee Lease - 3 Copies

ISTRICT IV 220 South St. Fro	ancis Dr., Sor	ita Fe, NM 87	505						☐ AM	IENDED REPORT	
		W	ELL LO	OCATION	AND AC	REAGE DEDI	CATI	ON PL	AT		
30-04	Number 27	2504	715	*Pool Code 99	В	SASIN DAKO		Pool Name			
Property Co	de,				<sup>8</sup> Property N					Well Number	
28116					HARTMA					3	
700RED No.				_	*Operator N				*Elevation 6019		
									0019		
UL or lot no.	10 Surface Location  lot no.   Section   Township   Range   Lot Idn   Feet from the   North/South line   North/South				rom the	East/West line	County				
A	26	30-N	11-W	. LDC IGH	790	NORTH .	1	390	. EAST	SAN JUAN	
			11 Bott	om Hole	Location I	f Different Fr	om S	urface			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line		from the	East/West line	County	
<sup>32</sup> Dedicated Acre		1	<sup>13</sup> Joint or I	n fill	<sup>14</sup> Consolidation Co	ode	15 Order	r No.			
319		WII RE A	SSIGNE	D TO TH	S COMPLETE	ON LINTH ALL	INTER	PESTS L	JAVE REEN	CONSOLIDATED	
-	WADEE 1					EEN APPROVE				OONSOLIDATED	
16		Q FD	TR. CORNEI 3 1/4" BG BLM 196	2	9-28-14 W 626.2' (M)	SEC. COI FD 3 1/4 BLM	" BC		ertify that the inform	CERTIFICATION notion contained herein	
				ST 21 20	232425	890°		is true on belief	d complete to the b	est of my knowledge and	
			Æ	$\mathcal{S}_{\mathcal{E}}$		LOT 1			,	$\cap$	
			(A) (3) (A)		2004 G	5.	-24 W	T	3/ /2	-	
			100	2 500		LOT 2	-04- .3' (	Signatur	<del>,</del>		
			Υ'		C 19 3 3		631.		E	RIAN WOOD	
				LAT. S	6-47-17" N.	(NAU 2/)	ZÑ	Printed		ONSULTANT	
				LONG:	107'57'14" V	V. (NAD 27)		Title	AUGI	JST 2, 2004	
				26 —		QTR. CO	RNER	Date	7.000	, <u>, , , , , , , , , , , , , , , , , , </u>	
	1			1		FD 3 1/4		18	SURVEYOR	CERTIFICATION	
							1			action shown on this plot actual <del>surveys</del> made by	
LOT	3								r my supervision, and to the best of my l	i that the same is true relief.	
									Moreti Al W	UNROS	
								Date of		EV	
								Signatur		XV E	
									以-(24	SIL) E	
LOT	4	10	OT 5		LOT 6	LOT 7	ł		(4)	~07\$[	
[		LC	5		20, 0	,	1	ľ	PAGE	SSIONAL	

XTO ENERGY INC. LAT. = 36°47'17" N. 790' FNL 890' FEL HARTMAN No. 3, LONG. = 107°57'14" SECTION 26, T30N, R11W, N.M.P.M., SAN JUAN COUNTY, N. M. **NAD 27 GROUND ELEVATION: 6019', DATE: MARCH 17, 2004 EDGE EXISTING PAD** CONSTRUCTION ZONE B F (5) A 4.1 F 1.2 F 6.4 9 INSTALL DRAIN PIPE ON 2.1 Slopes Reserve Pit FRUITLAND FORMATIONS ONLY 6 DEEP ١g BLOW PIT 10' DEEP 8' DEEP 70 15 LAYDOWN N 86'38' W 0 35 4 Wellhead to Back Wellhead to Front C 7.9 C 5.1 120 120 C 8.2 REAR 75 FT NEW ACCESS head side (0% to 6%) 9 ₹ \$ 00 0 C, ③ A' C 13.0 B' F 2.6 F 12.1  $(295' \times 340') = 2.32 \text{ ACRES}$ 195' x 240' 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. 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: ELEV. A-6030 6020 6010 6000 C/L ELEV. B-B' 6030 6020 15068 - Famington, NW 87401 1) 226-1772 - Fax (505) 326-6019 6010 6000 C/L ELEV. C-C' 6030 Surveying 26 (505) Y?Y 6020 0 8 6010 6000 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.

XTO Energy Inc. Hartman 3 790' FNL & 890' FEL

Sec. 26, T. 30 N., R. 11 W. San Juan County, New Mexico

## **Drilling Program**

### 1. ESTIMATED FORMATION TOPS

Formation Name	GL Depth	KB Depth	<u>Elevatio</u>
Nacimiento Fm	000'	12'	+6,019'
Ojo Alamo Sandstone	1,069'	1,081'	+4,950'
Kirtland Shale	1,194'	1,206'	+4,825'
Fruitland Coal	2,094'	2,106'	+3,925'
Pictured Cliffs Ss	2,429'	2 <b>,44</b> 1'	+3,590'
Cliff House Sandstone	3,994'	4,006'	+2,025'
Menefee Shale	4,129'	4,141'	+1,890'
Pt. Lookout Sandstone	4,739'	4,751'	+1,280'
Mancos Shale	5,119'	5,131'	+900
Gallup Sandstone	5,959'	5,971'	+60'
Greenhorn Limestone	6,709'	6,721'	-690'
Graneros Shale	6,769'	6,781'	-750'
Dakota Sandstone	6,829'	6,841'	-810'
Morrison	7,069'	7,081'	-1,050'
Total Depth (TD)*	7,100'	7,112'	-1,081'

<sup>\*</sup> all elevations reflect the ungraded ground level of 6,019'

### 2. NOTABLE ZONES

Dakota

Gas & Oil Zones	Water Zones	Coal Zones
Fruitland	Nacimiento	Fruitland
Pictured Cliffs	Kirtland	Menefee
Cliff House	Fruitland	
Menefee		
Pt. Lookout		



XTO Energy Inc.
Hartman 3
790' FNL & 890' FEL
Sec. 26, T. 30 N., R. 11 W.
San Juan County, New Mexico

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.

#### 3. PRESSURE CONTROL

The drilling contract has not yet been awarded, thus the exact BOP model to be used is not yet known. (A typical 2,000 psi model is on PAGE 3.) An 8-5/8" x 11" 2,000 pound double ram BOP system with a choke manifold and mud cross will be tested to 200 psi and then to 2000 psi. Upper and lower Kelly cocks with valve handle and subs to fit all drill string connections which are in use will be available on the rig floor.

Tests will be run when:

- 1) installed
- 2) anytime a pressure seal is broken (test only affected equipment)
- 3) at least every 30 days
- 4) blind & pipe rams will be activated each trip, but no more than daily

BOP systems will be consistent with API RP 53. Blowout preventers will be installed and tested before drilling surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated daily to ensure good mechanical working order and this inspection recorded on the daily drilling report. Preventers and casing will be pressure tested before drilling casing cement plugs. Maximum expected bottom hole pressure is  $\approx 2,800$  psi. BOP and mud system will control pressure.

### 4. CASING & CEMENT

Hole Size	<u>O. D.</u>	Weight (lb/ft)	<u>Grade</u>	<u>Age</u>	Connections	GL Setting Depth
12-1/4"	8-5/8"	24	J-55	New	8rd, S T &C	325'
7-7/8"	4-1/2"	11.6	K-55	New	8rd, L T &C	7,100'



XTO Energy Inc.
Hartman 3
790' FNL & 890' FEL
Sec. 26, T. 30 N., R. 11 W.
San Juan County, New Mexico

Surface casing will be cemented to surface with  $\approx$ 270 cubic feet ( $\approx$ 230 sacks) Class B Neat + 1/4 pound per sack cello-flake + 2% CaCl<sub>2</sub>. Yield = 1.27 cubic feet per sack. Weight = 15.2 pounds per gallon.

Conventional centralizers will be set on the bottom two joints and every fourth joint to surface.

Production casing hole will be cemented to surface as follows. DV @ ≈4,000'.

First stage Lead will be cemented to  $\approx 4,000$ ' with  $\approx 903$  cubic feet ( $\approx 655$  sacks) 50:50 Poz + 5 pounds per sack gilsonite + 2% gel + 1/4 pounds per sack cello-flake, dispersant, and FLA. Yield = 1.38 cubic feet per sack. Weight = 13.5 pounds per gallon. Excess = 25%.

Second stage Lead will be cemented to surface with  $\approx 1,440$  cubic feet ( $\approx 500$  sacks) Class B or H + 10 pounds per sack gilsonite + 4% gel + 1/2 pounds per sack cello-flake + 3% Econolite. Yield = 2.88 cubic feet per sack. Weight = 11.4 pounds per gallon. Excess = 50%

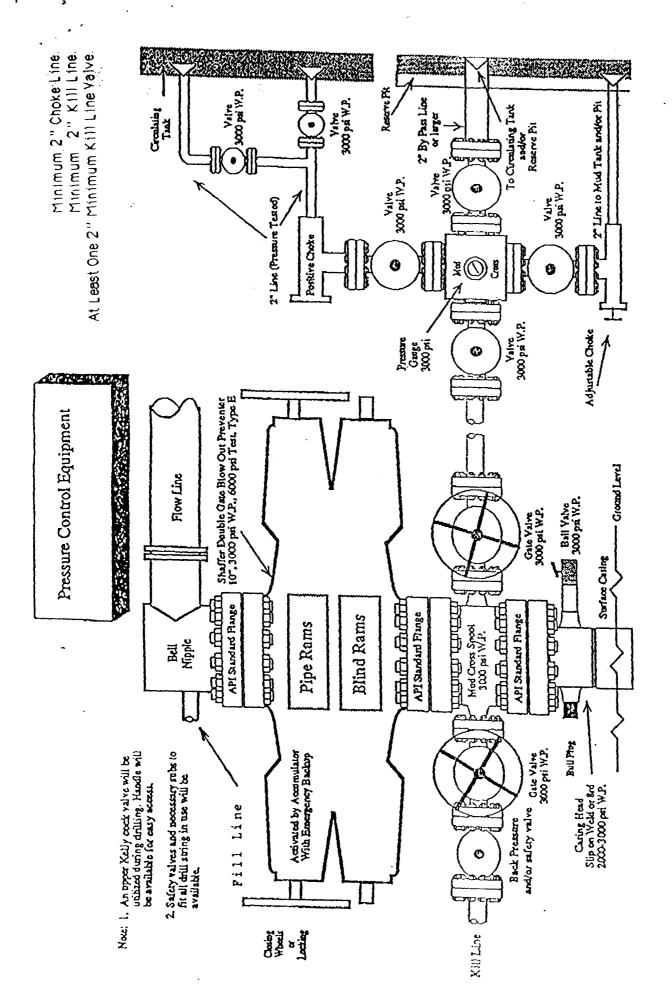
Second stage Tail will be cemented to  $\approx 3,600$ ' with  $\approx 126$  cubic feet ( $\approx 100$  sacks) Class B or H Neat + 1/4 pounds per sack cello-flake + 2% CaCl2. Yield = 1.26 cubic feet per sack. Weight = 15.2 pounds per gallon. Excess = 10%.

Conventional centralizers will be set on the bottom two joints, every second joint to  $\approx$ 6,000' and every fourth joint from  $\approx$ 2,000' to surface.

#### 5. MUD PROGRAM

<u>RANGE</u>	MUD TYPE	WEIGHT	<b>VISCOSITY</b>	<b>WATER LOSS</b>	<b>ADDITIVES</b>
0' - 350'	Fresh-Spud	8.5-8.8	30	NC	Gel, lime
350' - 4,000'	Fresh Water	8.5-8.8	28	NC	Gel, lime sweeps
4,000' - TD	Fresh Water	8.5-8.8	35	10 cc	Gel. soda ash. LCM





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 caried out per standard. 2,000 psi equipment can be substituted in the drawing to meet minimum requirements per standard.