

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Form C-101
May 27, 2004

Oil Conservation Division
1220 S. St. Francis Dr.
Santa Fe, NM 87505

Submit to appropriate District Office

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address XTO Energy, Inc. 200 N. Loraine, Ste. 800 Midland, TX 79701		² GRID Number 005380
⁴ Property Code 300755	⁵ Property Name Harry Leonard NCT 'D'	³ API Number 30- 025-08752
⁹ Proposed Pool 1 Jalmat; Tan-Yates - 7 Rvrs (Gas)		⁶ Well No. 1
¹⁰ Proposed Pool 2		

Surface Location

UL or lot no. H	Section 3	Township 22S	Range 36E	Lot. Idn	Feet from the 1650'	North/South Line North	Feet from the 330'	East/West line East	County Lea
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Proposed 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
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Additional Well Location

¹¹ Work Type Code P	¹² Well Type Code G	¹³ Cable/Rotary	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 3558'
¹⁶ Multiple	¹⁷ Proposed Depth 3534'	¹⁸ Formation Yates	¹⁹ Contractor	²⁰ Spud Date 6/7/08
Depth to ground water 100'		Distance from nearest fresh water well +1000'		Distance from nearest surface water +1000'
Pit. Liner: Synthetic <input type="checkbox"/> _____ mils thick Clay <input type="checkbox"/> Pit Volume _____ bbls Drilling Method: Closed-Loop System <input type="checkbox"/> Fresh Water <input type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>				

Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
13 3/4"	9 5/8"	25.7#	291'	200	Circ to Surf.
5 3/8"	6"	16#	3745'	350	2116'

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any Use additional sheets if necessary.

Well is presently in TA'd Status.
Production zone prior to TA Statuz is: Eunice; Seven Rivers-Queen, South
Proposed Zone: Jalmat; Tan-Yates - 7 Rvrs (Gas)
Tag @ 3534' - PBD
Formation @ TD is: Queen Formation @ PBD is: Yates

**Permit Expires 2 Years From Approval
Date Unless Drilling Underway
Plugback**

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOC guidelines ☐ a general permit ☐, or an (attached) Alternative OCD-approved plan ☐.

Signature: *Kristy Ward*

Printed name: Kristy Ward

Title: Regulatory Analyst

E-mail Address: kristy.ward@xtoenergy.com

Date: 06/16/08

Phone: 432-620-6740

OIL CONSERVATION DIVISION

Approved by:

Title: **PETROLEUM ENGINEER**

Approval Date: **NOV 14 2008**

Expiration Date:

CONDITIONS OF APPROVAL BY THE OCD
-- Approval for drilling only, CANNOT produce
until OCD Santa Fe approve Simultaneous
Dedication of Acreage and Pool/Formation.

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

State of New Mexico
Energy, Minerals & Natural Resources

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Form C-102
Revised October 12, 2005

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

HOBBS OCD

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-08752	² Pool Code 79240	³ Pool Name Jalmat; Tan-Yates-7 Rvrs (Gas)
⁴ Property Code 300755	⁵ Property Name Harry Leonard NCT 'D'	⁶ Well Number 1
⁷ OGRID No 005380	⁸ Operator Name XT0 Energy, Inc.	⁹ Elevation 3558'

¹⁰ Surface Location

UL or lot no. H	Section 3	Township 22S	Range 36E	Lot. Idn	Feet from the 1650'	North/South line North	Feet from the 330'	East/West line East	County Lea
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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
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¹² Dedicated Acres 80 480	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No
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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					¹⁷ OPERATOR CERTIFICATION 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 hole location or has a right to drill this well at this location pursuant 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 division Signature: <u>Kristy Ward</u> Date: <u>06/16/08</u> Printed Name: <u>Kristy Ward</u>	
					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 Signature and Seal of Professional Surveyer Certificate Number	



Harry Leonard NCT D 1
LEA COUNTY, NEW MEXICO
April 10, 2008

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JUN 18 2008

HOBBS OCD

3. MIRU Wireline. TIH & perforate the following intervals at 1 JSPF and 120 degree phasing using a 4" gun, and premium charges:

Zone	Interval	Ft	SPF	Holes	Description
Yates	3045-48	3	1	3	3', 1 spf, 3 holes
Yates	3098-3102	4	1	4	4', 1 spf, 4 holes
Yates	3132-38	6	1	6	6', 1 spf, 6 holes
Yates	3164-68	4	1	4	4', 1 spf, 4 holes
Yates	3233-36	3	1	3	3', 1 spf, 3 holes
Yates	3276-78	2	1	2	2', 1 spf, 2 holes
	Total	22		22	
	Gross Pay:	233'			
	Avg:	3.6	1	3.6	

4. POOH w/perf gun and RDMO.
5. PU & RIH with 6" RBP, treating packer, **and CCL** on 3-1/2" workstring. Set RBP @ 3,310'. Test to 800#. PUH & set packer at 2,950'.
6. MIRU BJ Pumping Company.
7. Load backside and hold 500#. Monitor backside and treat perms fr 3,045-3,278' by breaking down with acid. RDMO.
8. RU Frac Company, Protechnics, and WL company. Test backside to 800 psi. Maintain and monitor BS pressure during frac.
9. Frac Yates (3,045-3,278') via 3-1/2" WS w/frac design to be determined. Flush 1 bbl short of top perf. Protechnics to tag pad, sand stages, and final sand stage, with different isotopes.
10. Flow well back to tank with steel lines until well dies.
11. Monitor fluid level and oil cut. POOH & LD 3-1/2" WS, RBP, & packer.
12. PU & RIH w/ 2-7/8" WS and 5-1/8" bit to tag for fill. CO fill to PBTD. TOH and LD WS and bit.

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JUN 18 2008

HOBBS OGD

HARRY LEONARD NCT 'D' #1

WELLBORE DIAGRAM

PROPOSED



GL 3558'
DF 3564 5'

9 5/8" 25 7# Csg Set @ 291' Cmt
w/200 sx Circ to surf

Csg Leak 539-570'
Sqz'd w/ 300 sx CI C
Cmt Circ to Surf

WELLTA'D 01/26/06

TOC @ 2116'

Proposed Yates Perfs:

3045-48'
3098-3102'
3132-38'
3164-68'
3233-36'
3276-78'

Tagg 20 3534' - PBD

CIBP @ 3570' W/ 35' CMT ON TOP

QUEEN PERFS 3626-3714 2 JSPF, 32 Holes

6" 16# J-55 Csg Set @ 3745' Cmt
w/350 sx TOC @ 2116' by Calc
(50% Excess)

CICR: 3734'
PBD 3734'
TD 3845'

4 3/4" OH Completion
(Penrose) 3745-3845'

DATA

LOCATION: 1650' FNL & 330' FEL, UNIT H. SEC. 3, T-22-S, R-36E

COUNTY/STATE: LEA COUNTY, NM

FIELD: EUMONT

FORMATION: QUEEN

INITIAL IP: 165 BOP, 0 BWPD.

API #: 30-025-08752

CURRENT STATUS: TA'D

HISTORY

COMPLETION DATA:

10/05/40 SPUD 13 3/4" HOLE. RAN 7 JTS 9 5/8" OD NEW ARMCO 3-GAUGE SPIRAL WELD SLIP JT STEEL CSG & SET @ 291'. CMT W/225 SX. CIRC CMT IN CELLAR CONT DRLG DRL 5 3/8" HOLE RAN 121 JTS 6" 16# 8RD J-55 & SET @ 3745' CMT W/350 SX DID NOT CIRC.

10/31/40 ACDZ OH W/5000 GALS 15% DOWELL X.

WORKOVER HISTORY:

06/11/56: ACDZ OH 3745-3830' W/10000 GALS GELLED LSE OIL W/1# SPG.

02/04/74: ACDZ OH 3745-3830' W/1000 GALS 15% NEA W/SURFACANT

11/30/77: RAN RODS & PMP, INSTALLED PMPG EQUIP

05/02/79: PULL PROD EQUIP. ACDZ OH W/500 GALS 15% NEHCL

09/10/92: RU GR-COMP, NEUTRON & CBL LOG SET CMT RTNR @ 3734' LOAD HOLE & TST TO 500#. STING INTO RTNR & TST TBG TO 2000# & CSG TO 300# PMP 125 SX CL C CMT BELOW RTNR. DISPL HOLE W/9# BW. PERF 3714-3626' W/2 JSPF (32 HOLES). SET RBP @ 3730', PKR @ 3727', TST TOOLS TO 2000#. OK. ACDZ PERFS 3714-3626' W/2836 GALS 15% NEFE HCL & 40 RCNB BS. SWB DRY FRAC W/41,400 GALS CO2 FOAM & 12/20 SD. CO SD W/NITRO FOAM, CIRC HOLE CLEAN FLW TO FRAC TK F/2 HRS SWB WELL. SET PKR @ 3556', DISPL HOLE W/PKR FLUID. CLEAN LOC, PUT WELL ON PROD ON 27/64" CHK, 500 MCF, FTP 194.

09/12/97: ISOLATED CSG LK F/539-570' PPD 300 SX CL C, CIRC CMT UP SURF DRLD CMTTO 595'. CIRC HOLE CLEAN RIH W/PROD TBG

01/24/06: TA WELL POOH W/ RODS, PMP & TBG. RIH W/ CIBP SET @ 3570' W/ 35' CMT ON TOP. CIRC. W/ 106 BBLS PKR FLUID