

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

<sup>1</sup> Operator Name and Address XTO Energy, Inc. 200 N. Loraine, Ste. 800 Midland, TX 79701		<sup>2</sup> OGRID Number 005380
<sup>4</sup> Property Code 18305		<sup>3</sup> API Number 30- 025-30005
<sup>5</sup> Property Name Dauron		<sup>6</sup> Well No. 3
<sup>9</sup> Proposed Pool 1 Tubb/Drinkard		<sup>10</sup> Proposed Pool 2 Blinebry OIL + GAS (OIL)

<sup>7</sup> Surface Location									
UL or lot no. I	Section 1	Township 21S	Range 37E	Lot. Idn 9	Feet from the 3535	North/South Line North	Feet from the 660	East/West line East	County Lea

<sup>8</sup> 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

Additional Well Location				
<sup>11</sup> Work Type Code P	<sup>12</sup> Well Type Code O	<sup>13</sup> Cable/Rotary	<sup>14</sup> Lease Type Code P	<sup>15</sup> Ground Level Elevation 3516' GL
<sup>16</sup> Multiple Yes-Downhole Commingle	<sup>17</sup> Proposed Depth 7510' TD	<sup>18</sup> Formation Abo	<sup>19</sup> Contractor N/A	<sup>20</sup> Spud Date Orig Date
Depth to ground water No record found		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"/>				

<sup>21</sup> Proposed Casing and Cement Program					
Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
12 1/4"	8 5/8"	24#	1638'	210sxs	surface
7 7/8"	5 1/2"	15.5, 17, 20#	7886'	765sxs	3600' TS

<sup>22</sup> 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 currently producing.  
Production zone currently is: Abo  
Proposed Zone: Tubb, Drinkard & Blinebry. Proposed PBD is 7474', CIBP @ 7150'  
Formation @ TD: Abo  
\*Proposed Program Attached

<sup>23</sup> 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 NMOCD guidelines <input type="checkbox"/> a general permit <input checked="" type="checkbox"/> , or an (attached) alternative OCD-approved plan <input type="checkbox"/> . Signature: <u>Patty Urias</u> Printed name: Patty Urias Title: Regulatory Analyst E-mail Address: patty.urias@xtoenergy.com Date: 4/29/11		OIL CONSERVATION DIVISION Approved by: <u>[Signature]</u> Title: PETROLEUM ENGINEER Approval Date: 05/02/11 Expiration Date: Conditions of Approval: Attached <input type="checkbox"/>	
Phone: 432-620-4318		MAY 04 2011	



**Dauron #3**

**Plug Back, OAP, Sand Frac Blinebry/Tubb/Drinkard  
Lea County, New Mexico  
April 5, 2011**

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**ELEVATION:** GL – 3557' TD – 7890'  
KB – 3572' PBTD – 7727' (fill)

**WELL DATA:**

Current Status: Abo Producer: Last test – 02/11/2011, 2 BO / 0 BW / 4 MCF

Surface Casing: 8-5/8" 24# J-55 set at 1638'.  
Cemented with 700 sx (TOC surface).

Production Casing: 5-1/2" 15.5/17/20# N-80 set at 7886'.  
Cemented with 765 sx (TOC 3600')

Tubing: 227 jts 2-7/8" 6.5 ppf J-55 EUE 8rd prod tbg, 5-1/2" TAC, 17 jts  
2-7/8" tbg, 2-7/8" TK-99 SN jt, SN, 1 jt 2-7/8" BPMA landed SN  
@ 7683' (TAC @ 7118')

Rods & Pump: 1-1/4" x 22' PR w/14' x 1-1/2" liner, 4'x7/8" D sub, 116-7/8", 180  
-3/4", 9-7/8" D rods, 2-1/2" x 1-1/3" x 16' RHBC w/12'x3/4" GA

**COMPLETION:** CICR @ 7763', Fill @ 7727'

Top	Bottom	Length	Type	Formation	SPF	Shots	Date	Comments
7196	7757	561	Perfs	Abo	Selective	76	10/1987	
7768	7782	14	Perfs	Abo	Selective	15	10/1987	Squeezed

**OBJECTIVE:** Plug Back Abo, OAP and Sand Frac Blinebry/Tubb/Drinkard

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**RECOMMENDED PROCEDURE**

*(Verify that anchors have been set and tested per NM OCD & OSHA guidelines)*

***This well is a PRIVATE well***

1. MIRU PU. POOH with pump and rods.
2. ND WH. NU 10,000 psi hydraulic BOP. POOH with 2-7/8" production tubing.
3. PU and RIH with 4-3/4" bit and scraper on 2-7/8" tubing to 7150'. POOH and LD bit and scraper.
4. RIH with 5-1/2" CIBP on 2-7/8" tubing. **Set CIBP at 7150'.** Test CIBP and casing to 3000 psig with brine for 10 min.



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**Lea County, New Mexico**

**April 5, 2011**

5. PU and RIH Halliburton 2" csg gun with premium charges, gamma ray tool and CCL. Correlate depth with the *PFC Log by Atlas on 10/13/1987*. Selectively perforate the following intervals with 1 spf and 120 degree phasing as follows.

**Tubb/Drinkard:** 6629', 6631', 6652', 6659', 6665', 6667', 6672',  
6674', 6682', 6684', 6738', 6740', 6775', 6777',  
6792', 6794', 6882', 6884', 6886', 6888', 6894',  
6896', 6898', 6900', 6902', 6904', 6976', 6978',  
6980', 6982', 6984', 7006', 7008', 7044', 7046'  
(Total: 417' gross, 35' net, 35 holes)

6. MI and rack 6600' of 3-1/2" N80 WS. PU and RIH with tandem Halliburton 5-1/2" treating packers on 3-1/2" WS to 6550'. **Set lower packer at 6550'** and test tool. *Note: lower packer must have landing nipple assembly for Omega Plug.*
7. MIRU acid company. Test lines to 5500 psig. Load TCA with brine and monitor during acid treatment (500 psig maximum). Acidize perfs from 6629' – 7046' with **3000 gal of 20% 90/10 acid** (acid/xylene) while spacing **55 1.3 SG ballsealers** according to the following schedule. **Max treating rate/pressure: 5 bpm / 5000 psi.**
- a. Load tubing with brine and establish injection
  - b. Pump 500 gal acid
  - c. Pump 2500 gal acid while dropping 55 1.3 SG ball sealers evenly throughout
  - d. Flush to bottom perf with brine
- Record ISIP, 5 min, 10 min, and 15 min shut-in pressures. RDMO acid company.
8. MIRU frac company. NU 10k frac valve. Test lines to 8500 psig. (XTO to provide 168,000 gal fresh water plus tank bottoms total for both fracs, and fresh water for annulus; 9-10 frac tanks) Load backside with FW and pressure up to 3000 psig (set backside pop-off at 3250 psig). Monitor during job.



### Dauron #3

## Plug Back, OAP, Sand Frac Blinebry/Tubb/Drinkard

Lea County, New Mexico

April 5, 2011

9. Frac the **Tubb/Drinkard perfs (6629' – 7046')** with 73,000 gal of 25# crosslinked gel carrying 100,000 lbs of 20/40 resin coated sand via 3-1/2" WS. Sand should contain BJ ParaSorb chemical to mitigate paraffin. **Max treating pressure = 7500 psig, Max casing pressure = 3000 psig.** Treat at 35 BPM with according to the following pump schedule.

STAGE	STAGE DESC.	CLEAN VOLUME GALS	SAND PPG	PROPPANT TYPE	FLUID	SAND VOLUME LBS
1.01	Prepad	2,500	0		Slickwater	0
1.02	Acid	3,000	0		20% 90/10 ACID/XYLENE	0
1.03	Displace	2,500	0		Slickwater	0
1.04	Pad	33,000	0		25# X-Linked Gel	0
1.05	Prop Fluid	8,000	1	Super LC 20/40	25# X-Linked Gel	8,000
1.06	Prop Fluid	12,000	2	Super LC 20/40	25# X-Linked Gel	24,000
1.07	Prop Fluid	12,000	3	Super LC 20/40	25# X-Linked Gel	36,000
1.08	Prop Fluid	8,000	4	Super LC 20/40	25# X-Linked Gel	32,000
1.09	Flush	2,429	0		Slickwater	0
<b>TOTAL</b>	<b>(1986 bbls)</b>	<b>83429</b>				<b>100,000</b>

Flush 1 bbl short of top perf. SI and obtain ISIP, 5 min, 10 min & 15 min SI pressures.

10. Shut in for 1 hour following frac stage 1. Drop Omega Plug down tubing and pump at 1-3 bpm until plug lands in 1.88" baffle. Pressure up to 1000 psig to land and test plug. Bleed off tubing pressure and release from XL overshot.
11. PUH with 3-1/2" WS and top 5-1/2" treating packer to 5970'. **Set upper packer at 5970'** and test tool.
12. RU Lubricator. PU and RIH Halliburton 2" csg gun with premium charges, gamma ray tool and CCL. Correlate depth with the *PFC Log by Atlas on 10/13/1987*. Selectively perforate the following intervals with 1 spf and 120 degree phasing as follows.

#### Blinebry:

6040', 6042', 6044', 6046', 6048', 6050', 6090',  
 6102', 6114', 6116', 6118', 6120', 6122', 6178',  
 6180', 6182', 6184', 6190', 6192', 6205', 6207',  
 6209', 6294', 6296', 6298', 6300', 6325', 6327',  
 6329', 6331', 6333', 6458', 6460', 6464', 6468'  
 (Total: 428' gross, 35' net, 35 holes)



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**Plug Back, OAP, Sand Frac Blinebry/Tubb/Drinkard**

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**April 5, 2011**

13. Frac the **Blinebry perfs (6040 – 6468')** with 73,000 gal of 25# crosslinked gel carrying 100,000 lbs of 20/40 Super LC sand via 3-1/2" WS. Sand should contain BJ ParaSorb chemical to mitigate paraffin. **Max treating pressure = 7500 psig, Max casing pressure = 3000 psig.** Treat at 35 BPM with according to the following pump schedule.

STAGE	STAGE DESC.	CLEAN VOLUME GALS	SAND PPG	PROPPANT TYPE	FLUID	SAND VOLUME LBS
2.01	Prepad	2,500	0		Slickwater	0
2.02	Acid	3,000	0		20% 90/10 ACID/XYLENE	0
2.03	Displace	2,500	0		Slickwater	0
2.04	Pad	33,000	0		25# X-Linked Gel	0
2.05	Prop Fluid	8,000	1	Super LC 20/40	25# X-Linked Gel	8,000
2.06	Prop Fluid	12,000	2	Super LC 20/40	25# X-Linked Gel	24,000
2.07	Prop Fluid	12,000	3	Super LC 20/40	25# X-Linked Gel	36,000
2.08	Prop Fluid	8,000	4	Super LC 20/40	25# X-Linked Gel	32,000
2.09	Flush	2,209	0		Slickwater	0
<b>TOTAL</b>	<b>(1981 bbls)</b>	<b>83209</b>				<b>100,000</b>

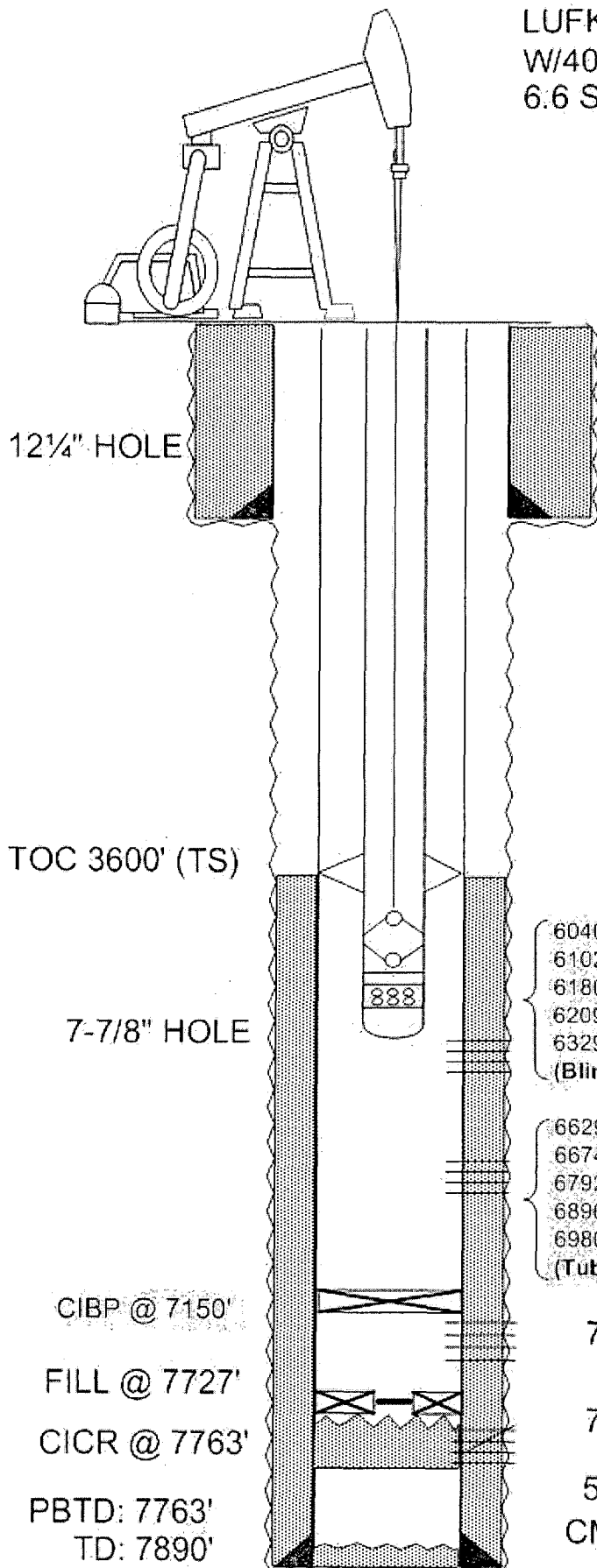
Flush 1 bbl short of top perf. SI and obtain ISIP, 5 min, 10 min & 15 min SI pressures.

14. ND Frac tree. RDMO frac company.
15. Run steel lines to tank. Gradually flowback Blinebry perforations to tank until well dies. Start flowback with an 8 – 14 choke in order to reduce proppant flowback. Report results to Midland.
16. Release top packer. POOH with 3-1/2" WS and LD packer and 3-1/2" WS. Rack 6600' of 2-7/8" production tubing for WS.
17. RIH with 2-7/8" WS and packer release tool to 6550'. Circulate sand off top of packer and circulate well clean. Latch on and shift packer bypass. Flowback Tubb/Drinkard zone to tank until well dies. Report results to Midland.
18. POOH with WS and LD packer.
19. RIH with 2-7/8" production tubing and pump sized for 250 BFPD, or based on swab/flowback results. Set EOT at 5970'. ND BOP. NU WH. RIH with rods & pump.
20. RDMO PU. Put well in test. (Note: Pump will be lowered to 6800' following cleanup of the well in ~1-2 months.)

Dauron 3  
Proposed WBD

LUFKIN TC-0AL-41C (C-324-300-84)  
W/40 HP MOTOR.  
6.6 SPM X 74" SL.

ELEV: KB 3572'  
GL 3557'  
CORR 15'



8-5/8" 24# J-55 @ 1638'.  
CMT'D W/700SX. CIRC 210SX.

6040', 6042', 6044', 6046', 6048', 6050', 6090',  
6102', 6114', 6116', 6118', 6120', 6122', 6178',  
6180', 6182', 6184', 6190', 6192', 6205', 6207',  
6209', 6294', 6296', 6298', 6300', 6325', 6327',  
6329', 6331', 6333', 6458', 6460', 6464', 6468'  
(Blinebry)

6629', 6631', 6652', 6659', 6665', 6667', 6672',  
6674', 6682', 6684', 6738', 6740', 6775', 6777',  
6792', 6794', 6882', 6884', 6886', 6888', 6894',  
6896', 6898', 6900', 6902', 6904', 6976', 6978',  
6980', 6982', 6984', 7006', 7008', 7044', 7046'  
(Tubb/Drinkard)

7196'-7757' (ABO)

7768'-82' (ABO) SQZ'D W/300 SX.

5 1/2" 15.5 17 & 20# N-80 @ 7886'.  
CMT'D W/765 SX.

CIBP @ 7150'

FILL @ 7727'

CICR @ 7763'

PBTD: 7763'  
TD: 7890'

# DAURON #3 – CURRENT WBD

