

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

State of New Mexico  
Energy Minerals and Natural Resources

Form C-101  
June 16, 2008

Oil Conservation Division  
1220 South 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. 382 CR 3100 AZTEC NM 87410		<sup>2</sup> OGRID Number 5380
		<sup>3</sup> API Number 3003906490
<sup>3</sup> Property Code 303815	<sup>5</sup> Property Name BURNS	<sup>6</sup> Well No. #1
<sup>9</sup> Proposed Pool 1 S. Blanco Pictured Cliffs		<sup>10</sup> Proposed Pool 2

<sup>7</sup> Surface Location

UL or lot no H	Section 15	Township 26N	Range 7W	Lot Idn	Feet from the 1650	North/South line North	Feet from the 990	East/West line East	County Rio Arriba
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<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
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Additional Well Information

<sup>11</sup> Work Type Code D	<sup>12</sup> Well Type Code G	<sup>13</sup> Cable/Rotary	<sup>14</sup> Lease Type Code	<sup>15</sup> Ground Level Elevation 6112'
<sup>16</sup> Multiple N	<sup>17</sup> Proposed Depth 2420'	<sup>18</sup> Formation S Blanco PC	<sup>19</sup> Contractor	<sup>20</sup> Spud Date

<sup>21</sup> Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
12	10.75	32	100	225	
7.88	5.5	14	2240	435	
4	2.88	10.46	2420	80	

<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.

See attached procedure.

RCVD AUG 28 '08  
OIL CONS. DIV.

DIST. 3

<sup>23</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature:

*Kyla Vaughan*

Printed name:  
Kyla Vaughan

Title:  
Regulatory Compliance

E-mail Address:  
Kyla\_Vaughan@xtoenergy.com

Date:  
082508

Phone:  
5053333159

OIL CONSERVATION DIVISION

Approved by:

Title:

DEPUTY OIL & GAS INSPECTOR, DIST. 3

Approval Date:  
SEP 02 2008

Expiration Date:  
SEP 02 2010

Conditions of Approval Attached ☐

SEP 02 2008 *cur*

*b*

BURNS #1  
SEC 15, T 26 N, R 07 W  
RIO ARriba COUNTY, NEW MEXICO

Formation: South Blanco Pictured Cliffs  
Surface csg: 10-3/4", 32# csg @ 100'.  
Production csg: 5-1/2", 14# csg @ 2,240'. Did not circ cmt to surf.  
Openhole: 2,240'-2,320'.  
Tbg: 2-3/8". EOT unknown.  
Current Status: F. 0 BO, 0 BW, 14 MCFPD

- 1) MIRU PU with pump, pit and 3-1/2" power swivel.
- 2) MI 3 – 400 bbl tanks, 76 jts 2-7/8" work string, 4 – 3-1/8" DC's, 2,420' - 4", 10.46#, J-55 flush joint casing, 75 joints 2-1/16", 3.25#, J-55, IJ, 10rd tubing, 94 - 3/4" grade "D" rods with slimhole couplings and adequate pony rods to space out pump.
- 3) Blow well down. ND WH. NU BOP. TOH with tubing and lay down.
- 4) TIH with 5-1/2" RBP to 700'. Set RBP at 700'. Pressure test casing and RBP to 300 psig for 5 minutes. Blow well down. ND WH.
- 5) Cut off 10-3/4" and 5-1/2" casing. Install new or reconditioned WH.
- 6) NU BOP. PU and TIH with 4-3/4" bit, 4 – 3-1/8" DC's and 2-7/8" tubing. MIRU AFU. Clean out openhole to 2,320'. Drill new hole from 2,320' to 2,420'
- 7) **Notify BLM and NMOCD of cementing operations.**
- 8) Circulate hole with Baroid Ez Drill mud (liquid polymer). If circulation is lost or not attainable call Loren W Fothergill for revised cement program.
- 9) TOH and lay down 2-7/8" tubing, DC's and bit. TIH with 4", 10.46#, J-55, FJ casing to 2,420' as follows:
  - A. Texas Pattern Guide Shoe
  - B. One full joint 4"
  - C. 4" Flapper float collar
  - D. 4", 10.46#, J-55 casing to surface (no marker joint required).
- 10) RU the cementing head and circulate a minimum of two casing volumes. Circulate red dye to determine the volume of cement required. Cement casing to surface with  $\pm 50$  Type V cement with 3% super-Sil and 2% CaCl<sub>2</sub> (11.5 #/gals, 2.81 cuft/sk). Tail in w/30 sx 50:50 Poz cmt w/8% Bentonite, 1/4#/sx Super Flake and 10% Gypsum (12.5 #/gals, 1.87 cuft/sx). Displace cement with fresh water. Bump plug to 500 psig over final displacement pressure. **Do not over displace.**
- 11) Land the 4" flush joint mandrel in casing spool. RDMO PU.
- 12) ND BOP. NU WH. NU 5,000 psig WP frac valve.

- 13) Pressure test casing to 2,000 psig for 30 minutes and then to 3,800 psig for 5 minutes.
- 14) MIRU WL. Run GR/Compensated Neutron log from PBTD to 1,400' and GR/CCL/CBL from PBTD to 500'. NOTE: If cement is circulated to surface, do not run CBL. Perforate PC from 2,245'-70' with 1 JSPF. RDMO wireline equipment.
- 15) MIRU frac equipment. BD PC perforations from 2,245' to 2,270' with 1,500 gals 15% HCl acid. Flush with 1,300 gals 2% KCl water (over displace acid by 3 bbls).
- 16) Frac the Pictured Cliffs from 2,245'-2,270' down 4" casing at 45 BPM with 66,000 gals 70Q, N<sub>2</sub> foamed, 17# linear gelled, 2% KCl water carrying 82,000# 16/30 Brady sand and 20,000# 16/30 Super LC RC sand. Do not exceed 3,850 psig. Flush with 1,027 gals 70Q, N<sub>2</sub> foamed, 17# linear gel (3 bbl under flush). Record ISIP and 5" SIP's.

**Pictured Cliffs Schedule**

Stage	BPM	Fluid	Vol Gals	Prop Conc	Prop
Pad	45	17# 70Q foam	7,800		
2	45	17# 70Q foam	9,000	1	9,000# 16/30 Brady
3	45	17# 70Q foam	9,000	2	18,000# 16/30 Brady
4	45	17# 70Q foam	9,000	3	27,000# 16/30 Brady
5	45	17# 70Q foam	7,000	4	28,000# 16/30 Brady
6	45	17# 70Q foam	5,000	4	20,000# 16/30 Brady w/RC sd
Flush	35	17# linear gel	1,027		

**Do not exceed 3,800 psig.**

- 17) RDMO frac equipment. SWI for a minimum of 4 hours.
- 18) Flow back well thru a choke manifold to pit. Start with 8/64" ck. Increase choke size as appropriate.
- 19) MIRU PU.
- 20) TIH with hydrostatic bailer, SN and 2-1/16" tubing. CO to 2,380'.
- 21) TOH with bailer and tubing.
- 22) TIH with 30' x 2-1/16" OEMA with 3/16" weep hole, SN and 2-1/16" tubing. Tag PBTD. PU and land tubing 2,300'.
- 23) TIH with 1-1/2" x 1-1/4" x 10' RWAC-Z-DV pump, RHBO tool, 1' lift sub, 3 – 1-1/4" sinker bars and 3/4" grade "D" rods to surface.
- 24) Space out pump. HWO.
- 25) Load tubing and check pump action.
- 26) RDMO PU.
- 27) MI and set C-50-89-54 ppg unit and a Daihatsu gas engine.

28) Start well ppg at 4 SPM and 42" SL.

29) Report rates and pressures to Loren Fothergill.

**REGULATORY REQUIREMENTS:**

1. BLM approval to deepen well, run casing and fracture stimulate well.

**SERVICES:**

1. Halliburton Frac.
2. Perforating company: Blue Jet
3. Stinger 5,000 psig WP frac valve.

**EQUIPMENT LIST:**

1. Tbg: 74 jts (2,361') 2-1/16", 3.25#, J-55, NU, 10rd, IJ tbg.
2. C-50-89-54 unit with min ECB 4,365 lbs and a Daihatsu gas engine. Gearbox will require oil wipers. Set stroke length at 42".
3. Pump and Rods: 1-1/2" x 1-1/4" x 10' RWAC-Z-DV pump, RHBO tool, 1' lift sub, 3 – 1-1/4" sinker bars and 3/4" grade "D" rods to surface.