STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3
AMENDED REPORT ☑

APPLICATION FOR PERMIT TO DRILL	
	1. WELL NAME and NUMBER KC 15-32E
2. TYPE OF WORK DRILL NEW WELL ◉ REENTER P&A WELL ○ DEEPEN WELL ○	**3. FIELD OR WILDCAT** NATURAL BUTTES
4. TYPE OF WELL Gas Well Coalbed Methane Well: NO	**5. UNIT or COMMUNITIZATION AGREEMENT NAME**
6. NAME OF OPERATOR XTO ENERGY INC	**7. OPERATOR PHONE** 505 333-3159
8. ADDRESS OF OPERATOR 382 Road 3100, Aztec, NM, 87410	**9. OPERATOR E-MAIL** kyla_vaughan@xtoenergy.com
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) ML-047059	**11. MINERAL OWNERSHIP** FEDERAL ○ INDIAN ○ STATE ◉ FEE ○
	12. SURFACE OWNERSHIP FEDERAL ○ INDIAN ○ STATE ◉ FEE ○
13. NAME OF SURFACE OWNER (if box 12 = 'fee')	**14. SURFACE OWNER PHONE (if box 12 = 'fee')**
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')	**16. SURFACE OWNER E-MAIL (if box 12 = 'fee')**
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')	**18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS** YES ○ (Submit Commingling Application) NO ◉
	19. SLANT VERTICAL ○ DIRECTIONAL ◉ HORIZONTAL ○

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20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	1289 FSL 2028 FEL	NWSE	32	10.0 S	19.0 E	S
Top of Uppermost Producing Zone	700 FSL 1950 FEL	SWSE	32	10.0 S	19.0 E	S
At Total Depth	700 FSL 1950 FEL	SWSE	32	10.0 S	19.0 E	S

21. COUNTY UINTAH	**22. DISTANCE TO NEAREST LEASE LINE (Feet)** 1289	**23. NUMBER OF ACRES IN DRILLING UNIT** 40
	25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 25	**26. PROPOSED DEPTH** MD: 10072 TVD: 10000
27. ELEVATION - GROUND LEVEL 5366	**28. BOND NUMBER** 104312762	**29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE** Commercial

ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES

☑ **WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER**	☑ **COMPLETE DRILLING PLAN**
☐ **AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)**	☐ **FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER**
☐ **DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)**	☑ **TOPOGRAPHICAL MAP**

NAME Kelly Small	**TITLE** Sr. Permitting Tech	**PHONE** 505 333-3145
SIGNATURE	**DATE** 11/19/2010	**EMAIL** kelly_small@xtoenergy.com
API NUMBER ASSIGNED 43047513540000	**APPROVAL**	Permit Manager

Proposed Hole, Casing, and Cement						
String	**Hole Size**	**Casing Size**	**Top (MD)**	**Bottom (MD)**		
Surf	12.25	9.625	0	2255		
Pipe	**Grade**	**Length**	**Weight**			
	Grade J-55 ST&C	2255	36.0			

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Proposed Hole, Casing, and Cement						
String	**Hole Size**	**Casing Size**	**Top (MD)**	**Bottom (MD)**		
Prod	7.875	5.5	0	10072		
Pipe	**Grade**	**Length**	**Weight**			
	Grade N-80 LT&C	10072	17.0			

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API Well Number: 43047513540000

XTO ENERGY INC.

KC 15-32E
APD Data
January 6, 2011

Location: 1289' FSL & 2028' FEL, Sec. 32, T10S, R19E **County**: Uintah **State**: Utah
Bottomhole Location: 700' FSL & 1950' FEL, Sec. 32, T10S, R19E

GREATEST PROJECTED TD: 10072' MD/ 10000' TVD OBJECTIVE: Wasatch/Mesaverde
APPROX GR ELEV: 5365' Est KB ELEV: 5379' (14' AGL)

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1. MUD PROGRAM:

INTERVAL	0' to 2255'	2255' to 10072'
HOLE SIZE	12.25"	7.875"
MUD TYPE	FW/Spud Mud	KCl Based LSND / Gel Chemical
WEIGHT	8.80 ppg	8.6-9.2 ppg
VISCOSITY	NC	30-60 sec-qt^{-1}
WATER LOSS	NC	8-15 cc/30 min

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. The mud system will be monitored visually/manually.

2. CASING PROGRAM:

Surface Casing: 9.625" casing set at ±2255'MD/2200'TVD in a 12.25" hole filled with 8.8 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'-2255'	2255'	36#	J-55	ST&C	2020	3520	394	8.921	8.765	2.57	4.47	4.85

Production Casing: 5.5" casing set at ±10072'MD/10000'TVD in a 7.875" 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'-10072'	10072'	17#	N-80	LT&C	6280	7740	348	4.892	4.767	1.66	2.05	2.03

Collapse and burst loads calculated at TVD with 0.1 psi/ft gas gradient back up.

3. WELLHEAD:

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

4. CEMENT PROGRAM:

A. Surface: 9.625", 36#, J-55 (or equiv.), ST&C casing to be set at ±2255' in 12.25" hole.

LEAD:
±223 sx of Premium Plus V Blend. (Type V/Poz/Gel) or equivalent, with dispersant, fluid loss, accelerator, & LCM mixed at 11.0 ppg, 3.82 ft^3/sk, 22.95 gal wtr/sx.

TAIL:
350 sx Class G or equivalent cement with bonding additive, LCM, dispersant, & fluid loss mixed at 15.6 ppg, 1.2 cuft/sx

Total estimated slurry volume for the 9.625" surface casing is 1270.1 ft^3. Slurry includes 75% excess of calculated open hole annular volume to 2255'.

B. Production: 5.5", 17#, N-80 (or equiv.), LT&C casing to be set at ±10072' in 7.875" hole.

LEAD:
±355 sx of Premium Plus V Blend. (Type V/Poz/Gel) or equivalent, with dispersant, fluid loss, accelerator, & LCM mixed at 11.6 ppg, 3.10 ft^3/sk, 17.71 gal wtr/sx.

TAIL:
400 sx Class G or equivalent cement with poz, bonding additive, LCM, dispersant, & fluid loss mixed at 13.0 ppg, 1.49 cuft/sx, 9.09 gal/sx.

Total estimated slurry volume for the 5.5" production casing is 1697.8 ft^3. Slurry includes 15% excess of calculated open hole annular volume.

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Note: The slurry design may change slightly based upon actual conditions. Final cement volumes will be determined from the caliper logs plus 15% or greater excess. The cement is designed to circulate on surface casing string. The production casing is designed for 1755' top of cement..

5. LOGGING PROGRAM:

A. Mud Logger: The mud logger will come on at intermediate casing point 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 (10072') to the bottom of the surface csg. Run Neutron/Lithodensity/Pe/GR/Cal from TD (10072') to 2255'. Run Gamma Ray to surface.

6. FORMATION TOPS:

Please see attached directional plan.

7. ANTICIPATED OIL, GAS, & WATER ZONES:

A.

Formation	Expected Fluids	TV Depth Top
Wasatch Tongue	Oil/Gas/Water	3,854
Green River Tongue	Oil/Gas/Water	4,194
Wasatch	Gas/Water	4,334
Chapita Wells	Gas/Water	5,224
Uteland Buttes	Gas/Water	6,584
Mesaverde	Gas/Water	7,459

B. Appropriately weighted mud will be used to isolate potential gas, oil, and water zones until such time as casing can be cemented into place for zonal isolation.

C. There are no known potential sources of H_2S.

D. The bottomhole pressure is anticipated to be between 4200 psi and 4600 psi.

8. BOP EQUIPMENT:

Surface will utilize a 500 psi or greater diverter.

Production hole will be drilled with a 3000 psi BOP stack.

Minimum specifications for pressure control equipment are as follows:

Ram Type: 11" Hydraulic double ram with annular, 3000 psi w.p.

Ram type preventers and associated equipment shall be tested to stack working pressure if isolated by test plug or to 70% of internal yield pressure of casing. Pressure shall be maintained for at least 10 minutes or until requirements of test are met, whichever is longer. If a test plug is utilized, no bleed-off pressure is acceptable. For a test not utilizing a test plug, if a decline in pressure of more than 10% in 30 minutes occurs, the test shall be considered to have failed. Valve on casing head below test plug shall be open during test of BOP stack.

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Annular type preventers (if used) shall be tested to 50% of rated working pressure. Pressure shall be maintained at least 10 minutes or until provisions of test are met, whichever is longer.

As a minimum, the above test shall be performed:

a. when initially installed:

b. whenever any seal subject to test pressure is broken

c. following related repairs: and

d. at 30 day intervals

Valves shall be tested from working pressure side during BOPE tests with all down stream valves open.

When testing the kill line valve(s) shall be held open or the ball removed.

Annular preventers (if used) shall be functionally operated at least weekly.

Pipe and blind rams shall be activated each trip, however, this function need not be performed more than once a day.

A BOPE pit level drill shall be conducted weekly for each drilling crew.

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No.2 for equipment and testing requirements, procedures, etc., and individual components shall be operable as designed. Chart recorders shall be used for all pressure tests. Pressure tests shall apply to all related well control equipment.

BOP systems shall be consistent with API RP53. Pressure tests will be conducted before drilling out from under casing strings which have been set and cemented in place. Test pressures for BOP equipment are as follows:

Annular BOP -- 1500 psi
Ram type BOP -- 3000 psi
Kill line valves -- 3000 psi
Choke line valves and choke manifold valves -- 3000 psi
Chokes -- 3000 psi
Casing, casinghead & weld -- 1500 psi
Upper kelly cock and safety valve -- 3000 psi
Dart valve -- 3000 psi

Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection will be recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs.

The BLM in Vernal, UT shall be notified, at least 24 hours prior to initiating the pressure test, in order to have a BLM representative on location during pressure testing.

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a. The size and rating of the BOP stack is shown on the attached diagram.

b. A choke line and a kill line are to be properly installed.

c. The accumulator system shall have a pressure capacity to provide for repeated operation of hydraulic preventers.

d. Drill string safety valve(s), to fit all tools in the drill string, are to be maintained on the rig floor while drilling operations are in progress.

e. See attached BOP & Choke manifold diagrams.

9. COMPANY PERSONNEL:

Name	Title	Office Phone	Cell Phone
Justin Niederhofer	Drilling Engineer	505-333-3199	505-320-0158
Bobby Jackson	Drilling Superintendent	505-333-3224	505-486-4706
Jeff Jackson	Project Geologist	817-885-2800	

API Well Number: 43047513540000

XTO Energy

3M BOP Stack	11/8/2006	

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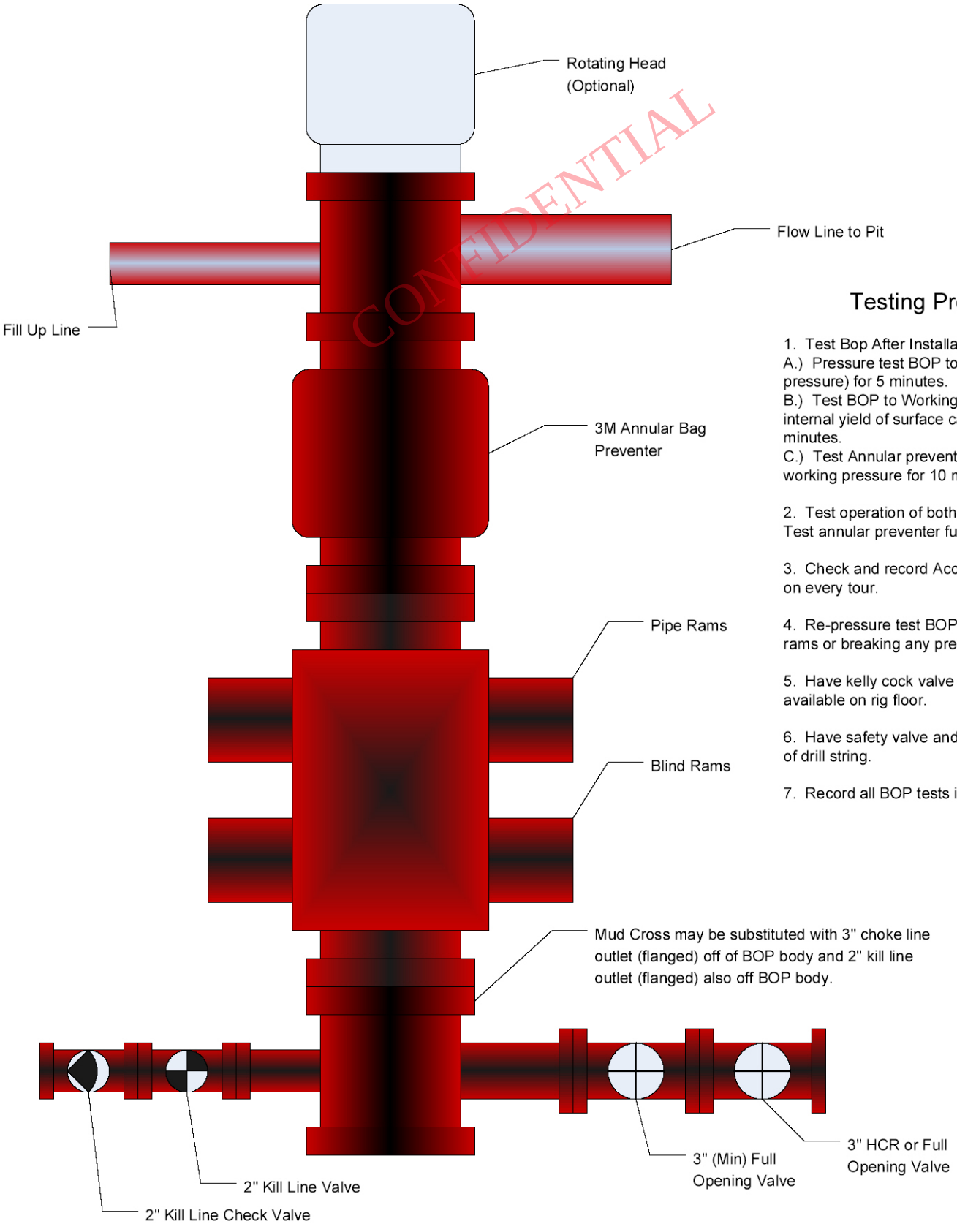

Testing Procedure

1. Test Bop After Installation:
A.) Pressure test BOP to 200-300 psig (low pressure) for 5 minutes.
B.) Test BOP to Working pressure or 70% internal yield of surface casing for 10 minutes.
C.) Test Annular preventer to 50% of working pressure for 10 minutes.

2. Test operation of both rams on each trip. Test annular preventer function weekly.

3. Check and record Accumulator pressure on every tour.

4. Re-pressure test BOP after changing rams or breaking any pressure tested seal.

5. Have kelly cock valve with handle available on rig floor.

6. Have safety valve and subs to fit all sizes of drill string.

7. Record all BOP tests in IADC book.

API Well Number: 43047513540000

XTO Energy		
3M Choke Manifold	11/9/2006	

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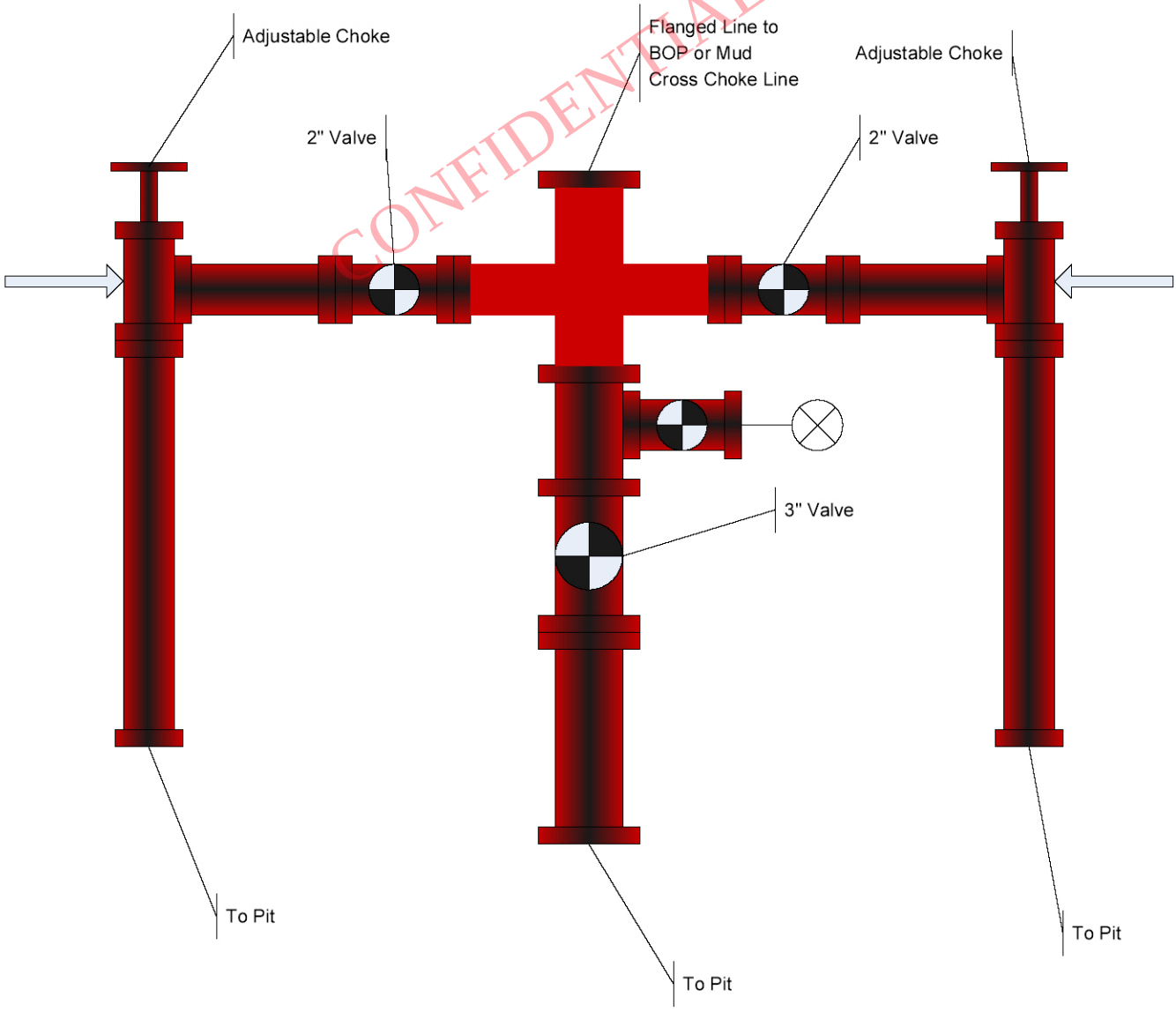

XTO Energy

Natural Buttes Wells(NAD83)
KC 10-32E
KC 15-32E
KC 15-32E

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Plan: Sundry'd Wellbore

Standard Planning Report

03 October, 2008

Database:	EDM 2003.14 Single User Db	**Local Co-ordinate Reference:**	Site KC 10-32E
Company:	XTO Energy	**TVD Reference:**	Rig KB @ 5379.0ft (Frontier #6)
Project:	Natural Buttes Wells(NAD83)	**MD Reference:**	Rig KB @ 5379.0ft (Frontier #6)
Site:	KC 10-32E	**North Reference:**	True
Well:	KC 15-32E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	KC 15-32E		
Design:	Sundry'd Wellbore		

Project Natural Buttes Wells(NAD83), Vernal, UT

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		Using Well Reference Point
Map Zone:	Utah Northern Zone		

Site KC 10-32E, T10S, R19E

Site Position:		**Northing:**	3,127,534.25 ft	**Latitude:**	39° 53' 59.392 N
From:	Lat/Long	**Easting:**	2,116,478.42 ft	**Longitude:**	109° 48' 12.712 W
Position Uncertainty:	0.0 ft	**Slot Radius:**	"	**Grid Convergence:**	1.12 °

Well KC 15-32E, S-Well to Wasatch/Mesaverde

Well Position	**+N/-S**	-2.2 ft	**Northing:**	3,127,532.55 ft	**Latitude:**	39° 53' 59.370 N
	+E/-W	25.0 ft	**Easting:**	2,116,503.44 ft	**Longitude:**	109° 48' 12.391 W
Position Uncertainty		0.0 ft	**Wellhead Elevation:**	5,365.0 ft	**Ground Level:**	5,365.0 ft

Wellbore KC 15-32E

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	10/3/2008	11.52	65.80	52,522

Design Sundry'd Wellbore

Audit Notes:

Version:		**Phase:**	PROTOTYPE	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	-2.2	25.0	175.60

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	-2.2	25.0	0.00	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	-2.2	25.0	0.00	0.00	0.00	0.00	
800.0	15.00	175.60	794.3	-67.1	30.0	3.00	3.00	0.00	175.60	
2,574.4	15.00	175.60	2,508.3	-525.0	65.2	0.00	0.00	0.00	0.00	
3,074.4	0.00	0.00	3,002.6	-589.9	70.2	3.00	-3.00	0.00	180.00	
4,271.8	0.00	0.00	4,200.0	-589.9	70.2	0.00	0.00	0.00	0.00	KC 15-32E -- Reques
10,071.8	0.00	0.00	10,000.0	-589.9	70.2	0.00	0.00	0.00	0.00	

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Database:	EDM 2003.14 Single User Db	**Local Co-ordinate Reference:**	Site KC 10-32E
Company:	XTO Energy	**TVD Reference:**	Rig KB @ 5379.0ft (Frontier #6)
Project:	Natural Buttes Wells(NAD83)	**MD Reference:**	Rig KB @ 5379.0ft (Frontier #6)
Site:	KC 10-32E	**North Reference:**	True
Well:	KC 15-32E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	KC 15-32E		
Design:	Sundry'd Wellbore		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	-2.2	25.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	-2.2	25.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	-2.2	25.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	-2.2	25.0	0.0	0.00	0.00	0.00
400.0	3.00	175.60	400.0	-4.8	25.2	2.6	3.00	3.00	0.00
500.0	6.00	175.60	499.6	-12.6	25.8	10.5	3.00	3.00	0.00
600.0	9.00	175.60	598.8	-25.6	26.8	23.5	3.00	3.00	0.00
700.0	12.00	175.60	697.1	-43.8	28.2	41.7	3.00	3.00	0.00
800.0	15.00	175.60	794.3	-67.1	30.0	65.1	3.00	3.00	0.00
900.0	15.00	175.60	890.9	-92.9	32.0	91.0	0.00	0.00	0.00
1,000.0	15.00	175.60	987.5	-118.7	33.9	116.8	0.00	0.00	0.00
1,100.0	15.00	175.60	1,084.1	-144.5	35.9	142.7	0.00	0.00	0.00
1,200.0	15.00	175.60	1,180.7	-170.3	37.9	168.6	0.00	0.00	0.00
1,300.0	15.00	175.60	1,277.3	-196.1	39.9	194.5	0.00	0.00	0.00
1,400.0	15.00	175.60	1,373.9	-221.9	41.9	220.4	0.00	0.00	0.00
1,500.0	15.00	175.60	1,470.5	-247.7	43.9	246.3	0.00	0.00	0.00
1,600.0	15.00	175.60	1,567.0	-273.5	45.9	272.1	0.00	0.00	0.00
1,700.0	15.00	175.60	1,663.6	-299.3	47.9	298.0	0.00	0.00	0.00
1,800.0	15.00	175.60	1,760.2	-325.1	49.8	323.9	0.00	0.00	0.00
1,900.0	15.00	175.60	1,856.8	-350.9	51.8	349.8	0.00	0.00	0.00
2,000.0	15.00	175.60	1,953.4	-376.7	53.8	375.7	0.00	0.00	0.00
2,100.0	15.00	175.60	2,050.0	-402.5	55.8	401.5	0.00	0.00	0.00
2,200.0	15.00	175.60	2,146.6	-428.3	57.8	427.4	0.00	0.00	0.00
2,255.3	15.00	175.60	2,200.0	-442.6	58.9	441.7	0.00	0.00	0.00
9 5/8"									
2,300.0	15.00	175.60	2,243.2	-454.2	59.8	453.3	0.00	0.00	0.00
2,400.0	15.00	175.60	2,339.8	-480.0	61.8	479.2	0.00	0.00	0.00
2,500.0	15.00	175.60	2,436.4	-505.8	63.8	505.1	0.00	0.00	0.00
2,574.4	15.00	175.60	2,508.3	-525.0	65.2	524.3	0.00	0.00	0.00
2,600.0	14.23	175.60	2,533.0	-531.4	65.7	530.8	3.00	-3.00	0.00
2,700.0	11.23	175.60	2,630.5	-553.4	67.4	552.8	3.00	-3.00	0.00
2,800.0	8.23	175.60	2,729.1	-570.2	68.7	569.7	3.00	-3.00	0.00
2,900.0	5.23	175.60	2,828.4	-581.9	69.6	581.4	3.00	-3.00	0.00
3,000.0	2.23	175.60	2,928.2	-588.4	70.1	588.0	3.00	-3.00	0.00
3,074.4	0.00	0.00	3,002.6	-589.9	70.2	589.4	3.00	-3.00	0.00
3,100.0	0.00	0.00	3,028.2	-589.9	70.2	589.4	0.00	0.00	0.00
3,200.0	0.00	0.00	3,128.2	-589.9	70.2	589.4	0.00	0.00	0.00
3,300.0	0.00	0.00	3,228.2	-589.9	70.2	589.4	0.00	0.00	0.00
3,400.0	0.00	0.00	3,328.2	-589.9	70.2	589.4	0.00	0.00	0.00
3,500.0	0.00	0.00	3,428.2	-589.9	70.2	589.4	0.00	0.00	0.00
3,600.0	0.00	0.00	3,528.2	-589.9	70.2	589.4	0.00	0.00	0.00
3,700.0	0.00	0.00	3,628.2	-589.9	70.2	589.4	0.00	0.00	0.00
3,800.0	0.00	0.00	3,728.2	-589.9	70.2	589.4	0.00	0.00	0.00
3,900.0	0.00	0.00	3,828.2	-589.9	70.2	589.4	0.00	0.00	0.00
3,925.8	0.00	0.00	3,854.0	-589.9	70.2	589.4	0.00	0.00	0.00
Wasatch Tongue									
4,000.0	0.00	0.00	3,928.2	-589.9	70.2	589.4	0.00	0.00	0.00
4,100.0	0.00	0.00	4,028.2	-589.9	70.2	589.4	0.00	0.00	0.00
4,200.0	0.00	0.00	4,128.2	-589.9	70.2	589.4	0.00	0.00	0.00
4,265.8	0.00	0.00	4,194.0	-589.9	70.2	589.4	0.00	0.00	0.00
Green River Tongue									
4,271.8	0.00	0.00	4,200.0	-589.9	70.2	589.4	0.00	0.00	0.00
KC 15-32E -- Requested BHL									

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Database:	EDM 2003.14 Single User Db	**Local Co-ordinate Reference:**	Site KC 10-32E
Company:	XTO Energy	**TVD Reference:**	Rig KB @ 5379.0ft (Frontier #6)
Project:	Natural Buttes Wells(NAD83)	**MD Reference:**	Rig KB @ 5379.0ft (Frontier #6)
Site:	KC 10-32E	**North Reference:**	True
Well:	KC 15-32E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	KC 15-32E		
Design:	Sundry'd Wellbore		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,300.0	0.00	0.00	4,228.2	-589.9	70.2	589.4	0.00	0.00	0.00
4,400.0	0.00	0.00	4,328.2	-589.9	70.2	589.4	0.00	0.00	0.00
4,405.8	0.00	0.00	4,334.0	-589.9	70.2	589.4	0.00	0.00	0.00
Wasatch									
4,500.0	0.00	0.00	4,428.2	-589.9	70.2	589.4	0.00	0.00	0.00
4,600.0	0.00	0.00	4,528.2	-589.9	70.2	589.4	0.00	0.00	0.00
4,700.0	0.00	0.00	4,628.2	-589.9	70.2	589.4	0.00	0.00	0.00
4,800.0	0.00	0.00	4,728.2	-589.9	70.2	589.4	0.00	0.00	0.00
4,900.0	0.00	0.00	4,828.2	-589.9	70.2	589.4	0.00	0.00	0.00
5,000.0	0.00	0.00	4,928.2	-589.9	70.2	589.4	0.00	0.00	0.00
5,100.0	0.00	0.00	5,028.2	-589.9	70.2	589.4	0.00	0.00	0.00
5,200.0	0.00	0.00	5,128.2	-589.9	70.2	589.4	0.00	0.00	0.00
5,295.8	0.00	0.00	5,224.0	-589.9	70.2	589.4	0.00	0.00	0.00
Chapita Wells									
5,300.0	0.00	0.00	5,228.2	-589.9	70.2	589.4	0.00	0.00	0.00
5,400.0	0.00	0.00	5,328.2	-589.9	70.2	589.4	0.00	0.00	0.00
5,500.0	0.00	0.00	5,428.2	-589.9	70.2	589.4	0.00	0.00	0.00
5,600.0	0.00	0.00	5,528.2	-589.9	70.2	589.4	0.00	0.00	0.00
5,700.0	0.00	0.00	5,628.2	-589.9	70.2	589.4	0.00	0.00	0.00
5,800.0	0.00	0.00	5,728.2	-589.9	70.2	589.4	0.00	0.00	0.00
5,900.0	0.00	0.00	5,828.2	-589.9	70.2	589.4	0.00	0.00	0.00
6,000.0	0.00	0.00	5,928.2	-589.9	70.2	589.4	0.00	0.00	0.00
6,100.0	0.00	0.00	6,028.2	-589.9	70.2	589.4	0.00	0.00	0.00
6,200.0	0.00	0.00	6,128.2	-589.9	70.2	589.4	0.00	0.00	0.00
6,300.0	0.00	0.00	6,228.2	-589.9	70.2	589.4	0.00	0.00	0.00
6,400.0	0.00	0.00	6,328.2	-589.9	70.2	589.4	0.00	0.00	0.00
6,500.0	0.00	0.00	6,428.2	-589.9	70.2	589.4	0.00	0.00	0.00
6,600.0	0.00	0.00	6,528.2	-589.9	70.2	589.4	0.00	0.00	0.00
6,655.8	0.00	0.00	6,584.0	-589.9	70.2	589.4	0.00	0.00	0.00
Uteland Buttes									
6,700.0	0.00	0.00	6,628.2	-589.9	70.2	589.4	0.00	0.00	0.00
6,800.0	0.00	0.00	6,728.2	-589.9	70.2	589.4	0.00	0.00	0.00
6,900.0	0.00	0.00	6,828.2	-589.9	70.2	589.4	0.00	0.00	0.00
7,000.0	0.00	0.00	6,928.2	-589.9	70.2	589.4	0.00	0.00	0.00
7,100.0	0.00	0.00	7,028.2	-589.9	70.2	589.4	0.00	0.00	0.00
7,200.0	0.00	0.00	7,128.2	-589.9	70.2	589.4	0.00	0.00	0.00
7,300.0	0.00	0.00	7,228.2	-589.9	70.2	589.4	0.00	0.00	0.00
7,400.0	0.00	0.00	7,328.2	-589.9	70.2	589.4	0.00	0.00	0.00
7,500.0	0.00	0.00	7,428.2	-589.9	70.2	589.4	0.00	0.00	0.00
7,530.8	0.00	0.00	7,459.0	-589.9	70.2	589.4	0.00	0.00	0.00
Mesaverde									
7,600.0	0.00	0.00	7,528.2	-589.9	70.2	589.4	0.00	0.00	0.00
7,700.0	0.00	0.00	7,628.2	-589.9	70.2	589.4	0.00	0.00	0.00
7,800.0	0.00	0.00	7,728.2	-589.9	70.2	589.4	0.00	0.00	0.00
7,900.0	0.00	0.00	7,828.2	-589.9	70.2	589.4	0.00	0.00	0.00
8,000.0	0.00	0.00	7,928.2	-589.9	70.2	589.4	0.00	0.00	0.00
8,100.0	0.00	0.00	8,028.2	-589.9	70.2	589.4	0.00	0.00	0.00
8,200.0	0.00	0.00	8,128.2	-589.9	70.2	589.4	0.00	0.00	0.00
8,300.0	0.00	0.00	8,228.2	-589.9	70.2	589.4	0.00	0.00	0.00
8,400.0	0.00	0.00	8,328.2	-589.9	70.2	589.4	0.00	0.00	0.00
8,500.0	0.00	0.00	8,428.2	-589.9	70.2	589.4	0.00	0.00	0.00
8,600.0	0.00	0.00	8,528.2	-589.9	70.2	589.4	0.00	0.00	0.00
8,700.0	0.00	0.00	8,628.2	-589.9	70.2	589.4	0.00	0.00	0.00

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Database:	EDM 2003.14 Single User Db	**Local Co-ordinate Reference:**	Site KC 10-32E
Company:	XTO Energy	**TVD Reference:**	Rig KB @ 5379.0ft (Frontier #6)
Project:	Natural Buttes Wells(NAD83)	**MD Reference:**	Rig KB @ 5379.0ft (Frontier #6)
Site:	KC 10-32E	**North Reference:**	True
Well:	KC 15-32E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	KC 15-32E		
Design:	Sundry'd Wellbore		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,800.0	0.00	0.00	8,728.2	-589.9	70.2	589.4	0.00	0.00	0.00
8,900.0	0.00	0.00	8,828.2	-589.9	70.2	589.4	0.00	0.00	0.00
9,000.0	0.00	0.00	8,928.2	-589.9	70.2	589.4	0.00	0.00	0.00
9,100.0	0.00	0.00	9,028.2	-589.9	70.2	589.4	0.00	0.00	0.00
9,200.0	0.00	0.00	9,128.2	-589.9	70.2	589.4	0.00	0.00	0.00
9,300.0	0.00	0.00	9,228.2	-589.9	70.2	589.4	0.00	0.00	0.00
9,400.0	0.00	0.00	9,328.2	-589.9	70.2	589.4	0.00	0.00	0.00
9,500.0	0.00	0.00	9,428.2	-589.9	70.2	589.4	0.00	0.00	0.00
9,600.0	0.00	0.00	9,528.2	-589.9	70.2	589.4	0.00	0.00	0.00
9,700.0	0.00	0.00	9,628.2	-589.9	70.2	589.4	0.00	0.00	0.00
9,800.0	0.00	0.00	9,728.2	-589.9	70.2	589.4	0.00	0.00	0.00
9,900.0	0.00	0.00	9,828.2	-589.9	70.2	589.4	0.00	0.00	0.00
10,000.0	0.00	0.00	9,928.2	-589.9	70.2	589.4	0.00	0.00	0.00
10,071.8	0.00	0.00	10,000.0	-589.9	70.2	589.4	0.00	0.00	0.00
5 1/2"									

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Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
KC 15-32E -- Requestec - plan hits target - Circle (radius 30.0)	0.00	0.00	4,200.0	-589.9	70.2	3,126,945.87	2,116,560.16	39° 53' 53.564 N	109° 48' 11.811 W

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
2,255.3	2,200.0	9 5/8"	9-5/8	12-1/4
10,071.8	10,000.0	5 1/2"	5-1/2	7-7/8

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,925.8	3,854.0	Wasatch Tongue		0.00	
4,265.8	4,194.0	Green River Tongue		0.00	
4,405.8	4,334.0	Wasatch		0.00	
5,295.8	5,224.0	Chapita Wells		0.00	
6,655.8	6,584.0	Uteland Buttes		0.00	
7,530.8	7,459.0	Mesaverde		0.00	

API Well Number: 43047513540000

Well Name: KC 15-32E

San Juan Division
Drilling Department

Calculation Method: Minimum Curvature
Geodetic Datum: North American Datum 1983
Lat: 39° 53' 59.392 N
Long: 109° 48' 12.712 W

Azimuths to True North
Magnetic North: 11.52°

Magnetic Field
Strength: 52522.3nT
Dip Angle: 65.80°
Date: 10/3/2008
Model: IGRF200510

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3854.0	3925.8	Wasatch Tongue
4194.0	4265.8	Green River Tongue
4334.0	4405.8	Wasatch
5224.0	5295.8	Chapita Wells
6584.0	6655.8	Uteland Buttes
7459.0	7530.8	Mesaverde

CASING DETAILS

TVD	MD	Name	Size
2200.0	2255.3	9 5/8"	9-5/8
10000.0	10071.8	5 1/2"	5-1/2

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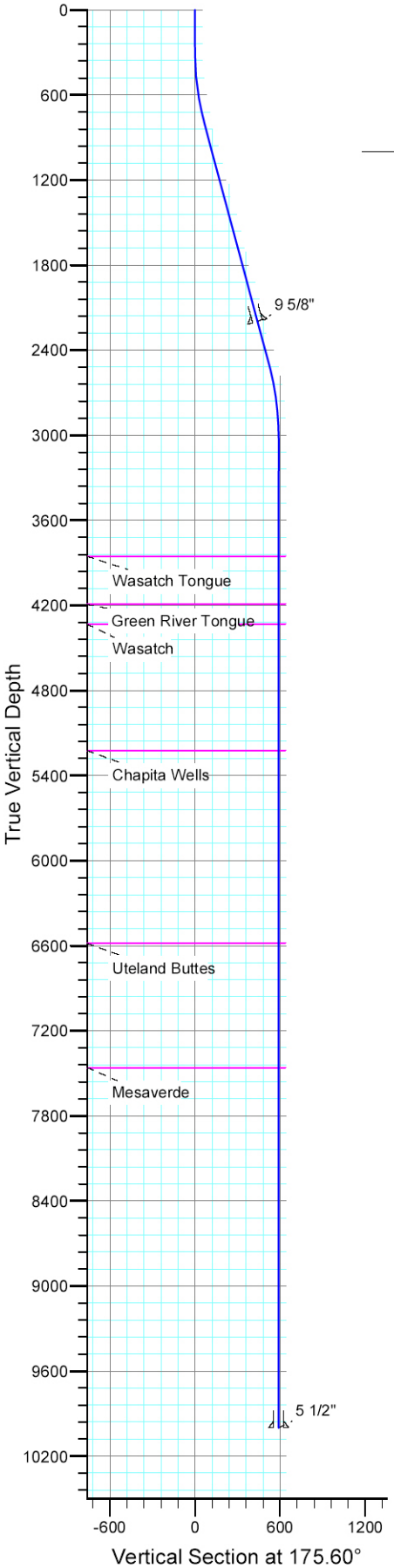
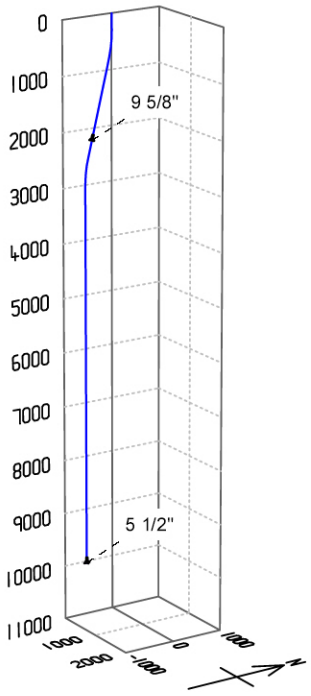
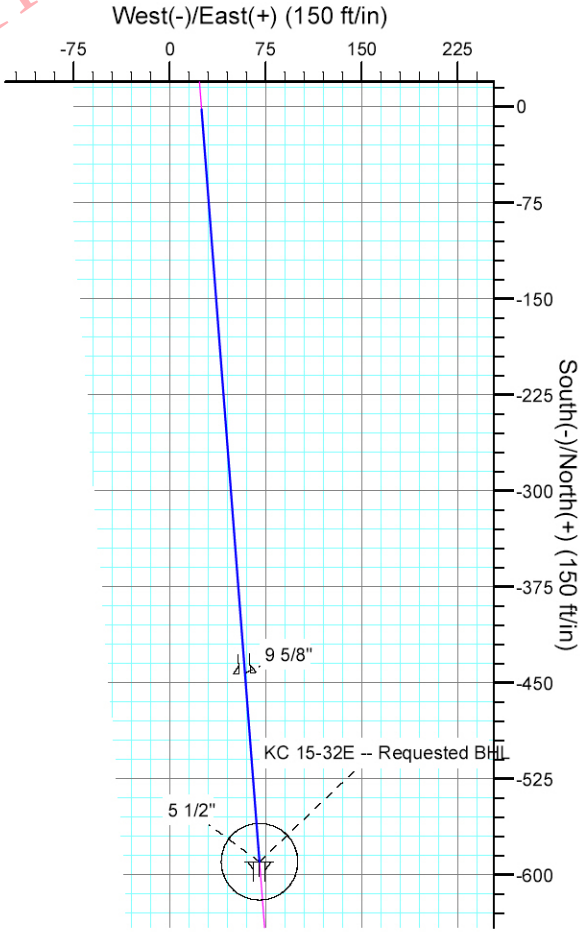


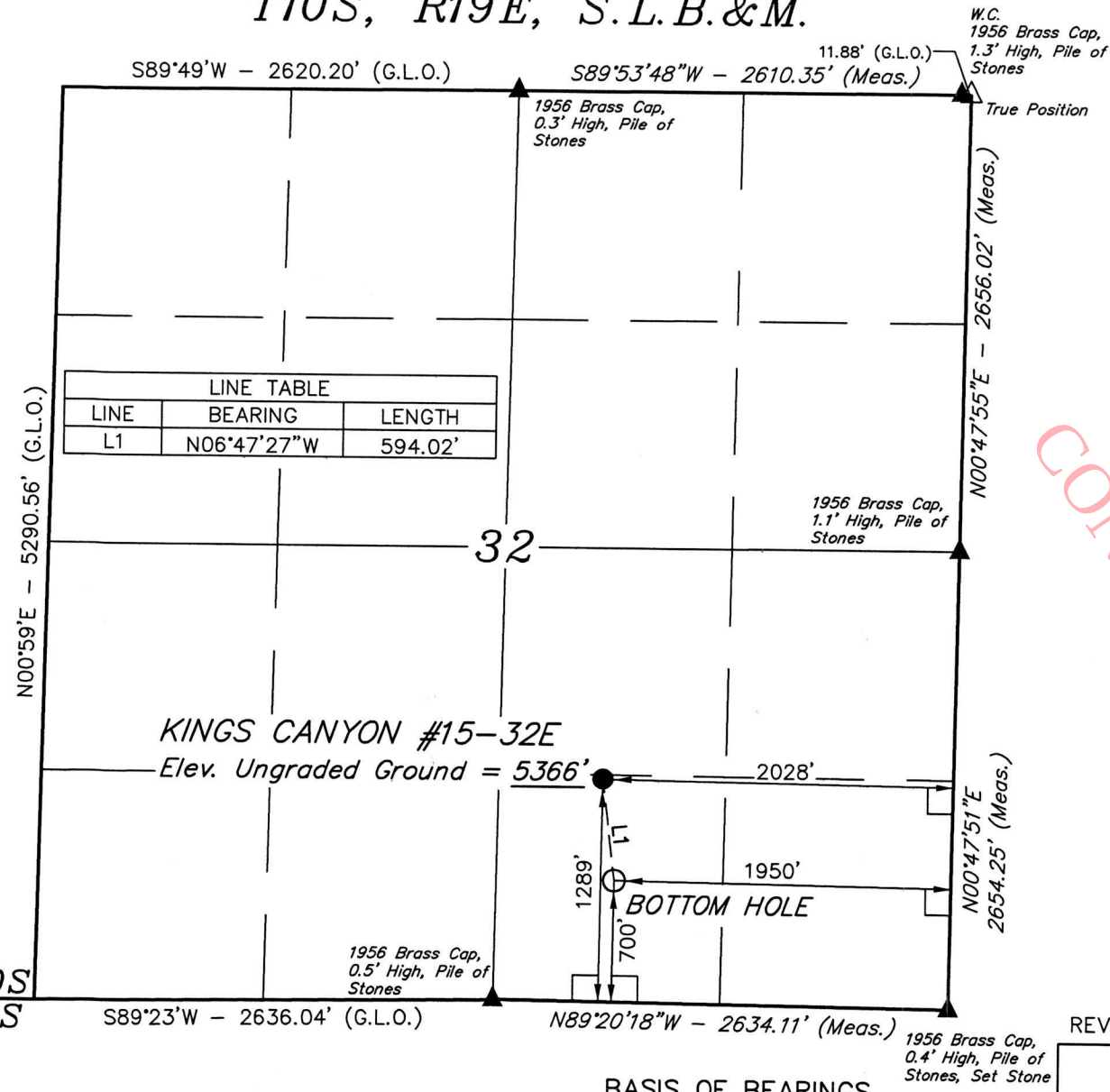




SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	-2.2	25.0	0.00	0.00	0.0	
2	300.0	0.00	0.00	300.0	-2.2	25.0	0.00	0.00	0.0	
3	800.0	15.00	175.60	794.3	-67.1	30.0	3.00	175.60	65.1	
4	2574.4	15.00	175.60	2508.3	-525.0	65.2	0.00	0.00	524.3	
5	3074.4	0.00	0.00	3002.6	-589.9	70.2	3.00	180.00	589.4	
6	4271.8	0.00	0.00	4200.0	-589.9	70.2	0.00	0.00	589.4	KC 15-32E -- Requested BHL
7	10071.8	0.00	0.00	10000.0	-589.9	70.2	0.00	0.00	589.4	

T10S, R19E, S.L.B.&M.



LINE TABLE		
LINE	BEARING	LENGTH
L1	N06°47'27"W	594.02'

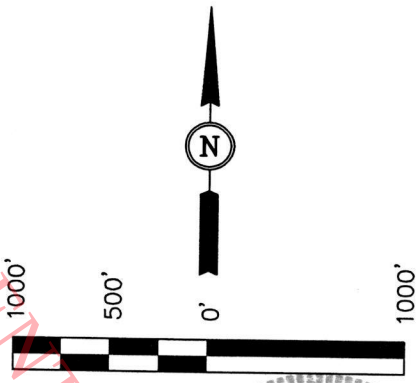
XTO ENERGY, INC.

Well location, KINGS CANYON #15-32E, located as shown in the SW 1/4 SE 1/4 of Section 32, T10S, R19E, S.L.B.&M., Uintah County Utah.

API Well Number: 43047513540000

BASIS OF ELEVATION

SPOT ELEVATION AT THE SOUTHWEST CORNER OF SECTION 20, T10S, R20E, S.L.B.&M. TAKEN FROM THE BIG PACK MTN. NW QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5251 FEET.



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CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

REVISED: 11-26-07

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

(NAD 83)
LATITUDE = 39°53'59.37" (39.899825)
LONGITUDE = 109°48'12.39" (109.803442)
(NAD 27)
LATITUDE = 39°53'59.50" (39.899861)
LONGITUDE = 109°48'09.88" (109.802744)

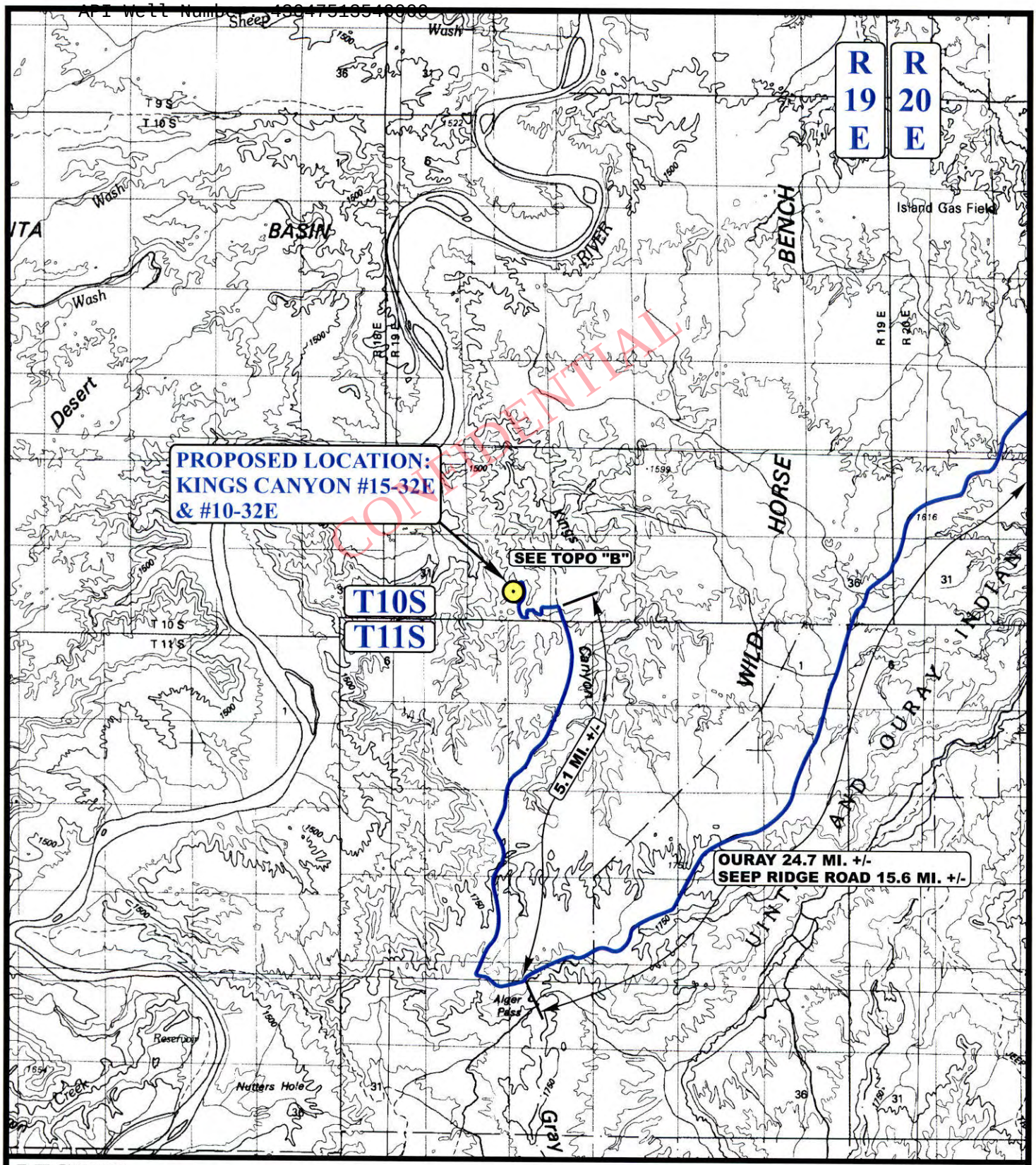
LEGEND:

└ = 90° SYMBOL
● = PROPOSED WELL HEAD.
▲ = SECTION CORNERS LOCATED.

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST – VERNAL, UTAH 84078
(435) 789-1017

SCALE	DATE SURVEYED:	DATE DRAWN:
1" = 1000'	05-19-06	05-24-06
PARTY: B.B. T.A. A.S. L.K.	REFERENCES: G.L.O. PLAT	
WEATHER: WARM	FILE: XTO ENERGY, INC.	

API Well Number: 43047513540000



LEGEND:

PROPOSED LOCATION

N

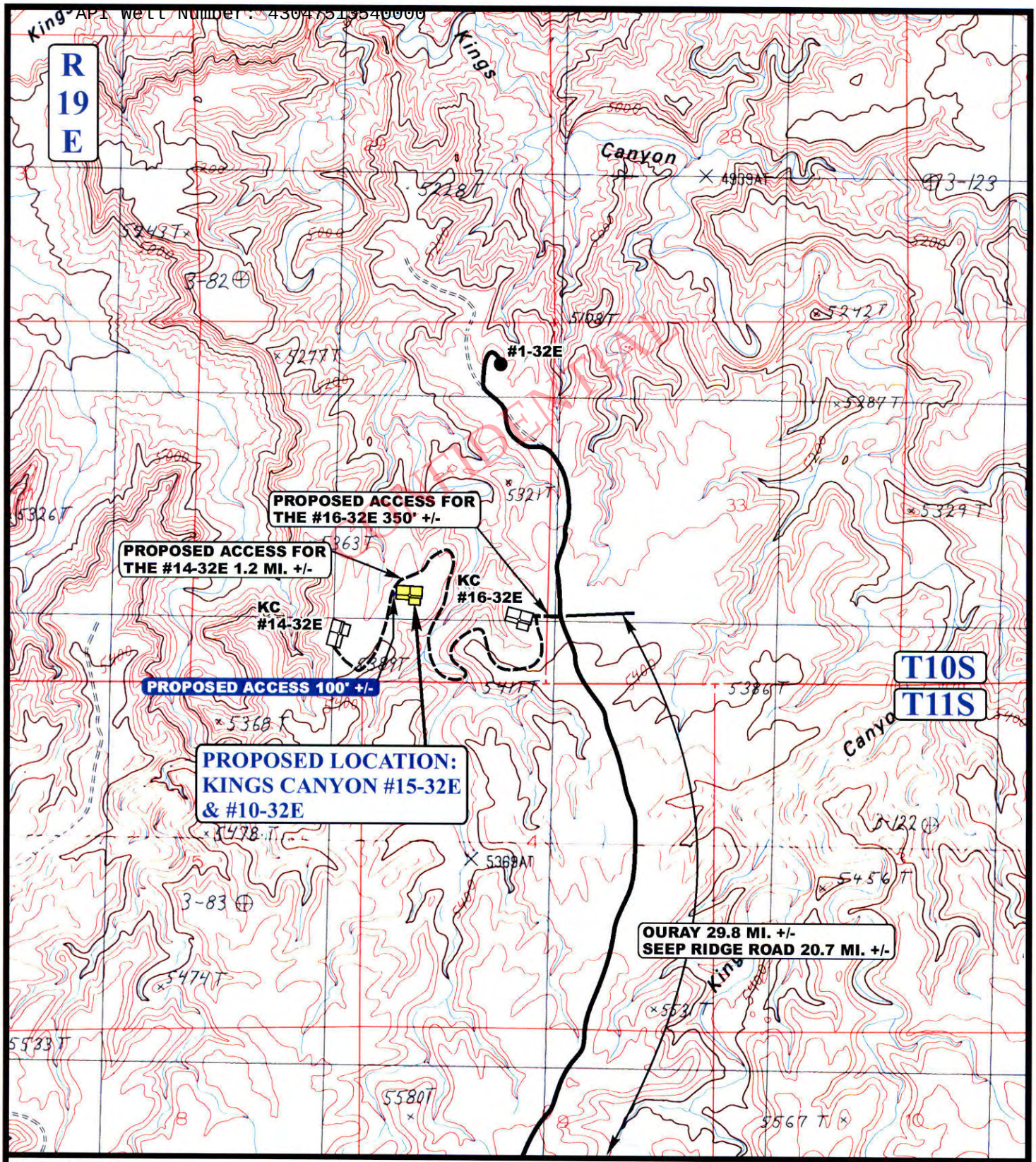
XTO ENERGY, INC.

KINGS CANYON #15-32E & #10-32E
SECTION 32, T10S, R19E, S.L.B.&M.
SW 1/4 SE 1/4

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	05 MONTH	26 DAY	06 YEAR	A TOPO
SCALE: 1:100,000	DRAWN BY: C.H.	REV: 11-27-07 C.C.		

API Well Number: 43047515540000



LEGEND:

EXISTING ROAD

PROPOSED ACCESS ROAD

N

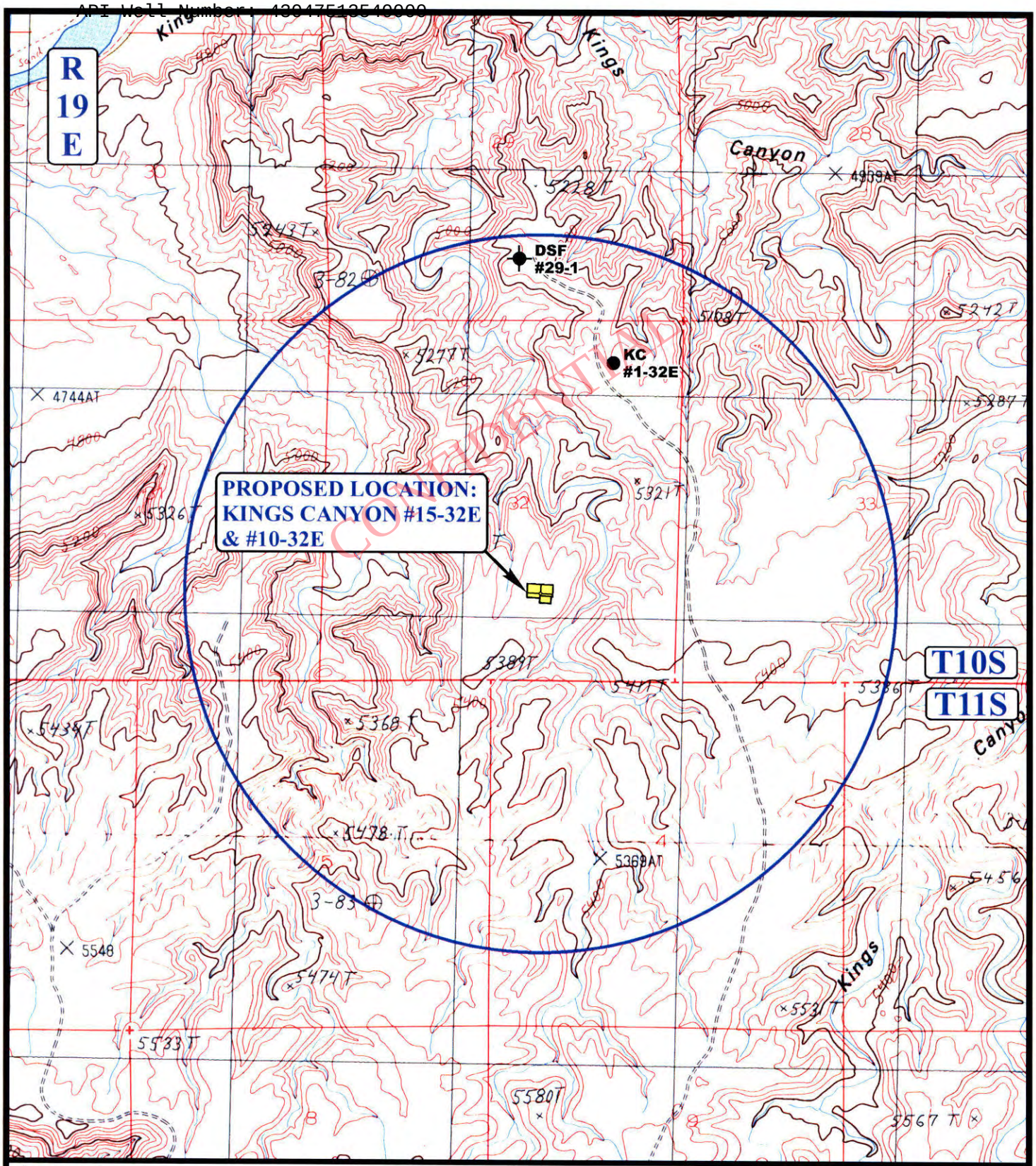
XTO ENERGY, INC.

KINGS CANYON #15-32E & #10-32E
SECTION 32, T10S, R19E, S.L.B.&M.
SW 1/4 SE 1/4

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	05 MONTH	26 DAY	06 YEAR	B TOPO
SCALE: 1" = 2000'	DRAWN BY: C.H.	REV: 11-27-07 C.C.		

API Well Number: 43047513540000



LEGEND:

- DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED

N

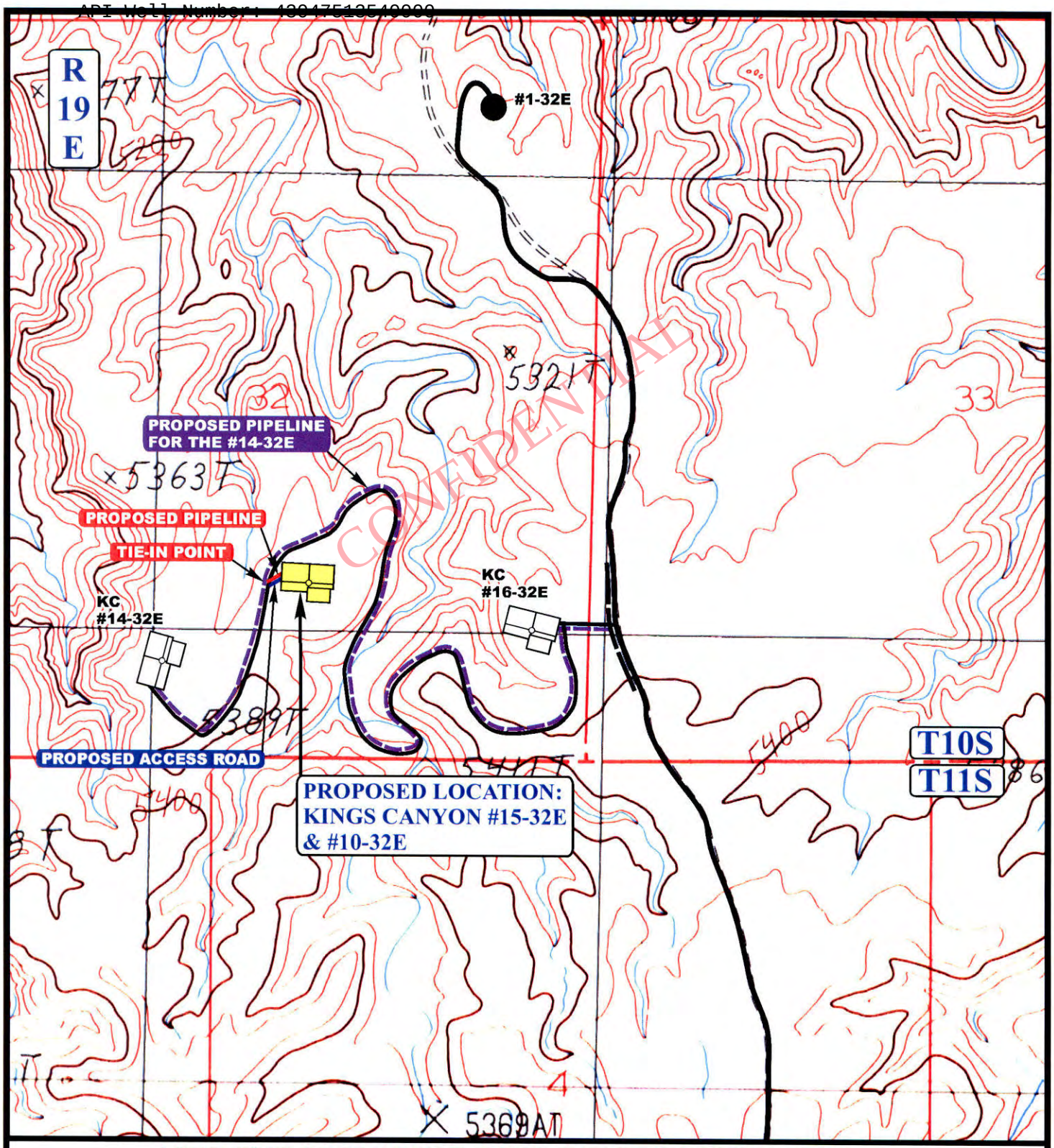
XTO ENERGY, INC.

KINGS CANYON #15-32E & #10-32E
SECTION 32, T10S, R19E, S.L.B.&M.
SW 1/4 SE 1/4

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	05 MONTH	26 DAY	06 YEAR
SCALE: 1" = 2000'	DRAWN BY: C.H.	REV: 11-27-07 C.C.	C TOPO

API Well Number: 43047513540000



APPROXIMATE TOTAL PIPELINE DISTANCE = 140' +/-

LEGEND:

PROPOSED ACCESS ROAD
EXISTING PIPELINE
PROPOSED PIPELINE

N

XTO ENERGY, INC.

KINGS CANYON #15-32E & #10-32E
SECTION 32, T10S, R19E, S.L.B.&M.
SW 1/4 SE 1/4

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

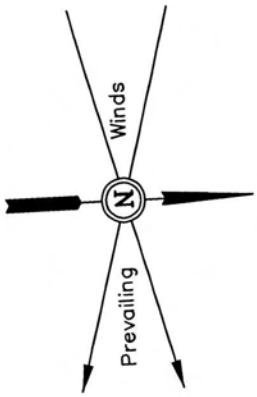
TOPOGRAPHIC MAP	05 MONTH	26 DAY	06 YEAR	D TOPO
SCALE: 1" = 1000'	DRAWN BY: C.H.	REV: 11-27-07 C.C.		

API Well Number: 43047513540000

XTO ENERGY, INC.

LOCATION LAYOUT FOR

KINGS CANYON #15-32E & #10-32E
SECTION 32, T10S, R19E, S.L.B.&M.
SW 1/4 SE 1/4



SCALE: 1" = 50'
DATE: 05-24-06
Drawn By: L.K.
REVISED: 11-26-07

CONFIDENTIAL

EXISTING ROAD

Proposed Access Road

C-1.9'
El. 66.4'

F-3.4'
El. 61.1'

F-0.3'
El. 64.2'

Sta. 3+80

DATA

Topsoil Stockpile

Approx. Top of Cut Slope

Approx. Toe of Fill Slope

NOTE:
Flare Pit is to be located a min. of 100' from the Well Head.

Pit Topsoil

FLARE PIT
El. 67.5'
C-3.0'

CATWALK

PIPE RACKS

El. 70.5'
C-14.0'
(btm. pit)

20' WIDE BENCH

El. 66.4'
C-1.9'

#10-32E

C-1.0'
El. 65.5'

RIG
DOG HOUSE
#15-32E

Sta. 1+80

Total Pit Capacity
W/2' of Freeboard
= 13,030 Bbls. ±
Total Pit Volume
= 3,770 Cu. Yds.

Reserve Pit Backfill & Spoils Stockpile

10' WIDE BENCH

Sta. 1+10

RESERVE PITS
(8' Deep)

Slope = 1-1/2:1

Sta. 0+67

El. 67.2'
C-2.7'

C-1.3'
El. 65.8'

WATER

TRAILER

PUMP

MUD SHED

MUD TANKS

HOPPER

POWER

TRASH

TOOLS

FUEL

TOILET

FUEL

El. 71.4'
C-14.9'
(btm. pit)

20' WIDE BENCH

C-2.0'
El. 66.5'

F-1.0'
El. 63.5'

Round Corners as Needed

STORAGE TANK

Sta. 0+00

C-0.6'
El. 65.1'

Topsoil Stockpile

F-5.2'
El. 59.3'

F-5.8'
El. 58.7'

Elev. Ungraded Ground at #15-32E Location Stake = 5365.8'
Elev. Graded Ground at #15-32E Location Stake = 5364.5'

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

API Well Number: 43047513540000

XTO ENERGY, INC.

TYPICAL CROSS SECTIONS FOR

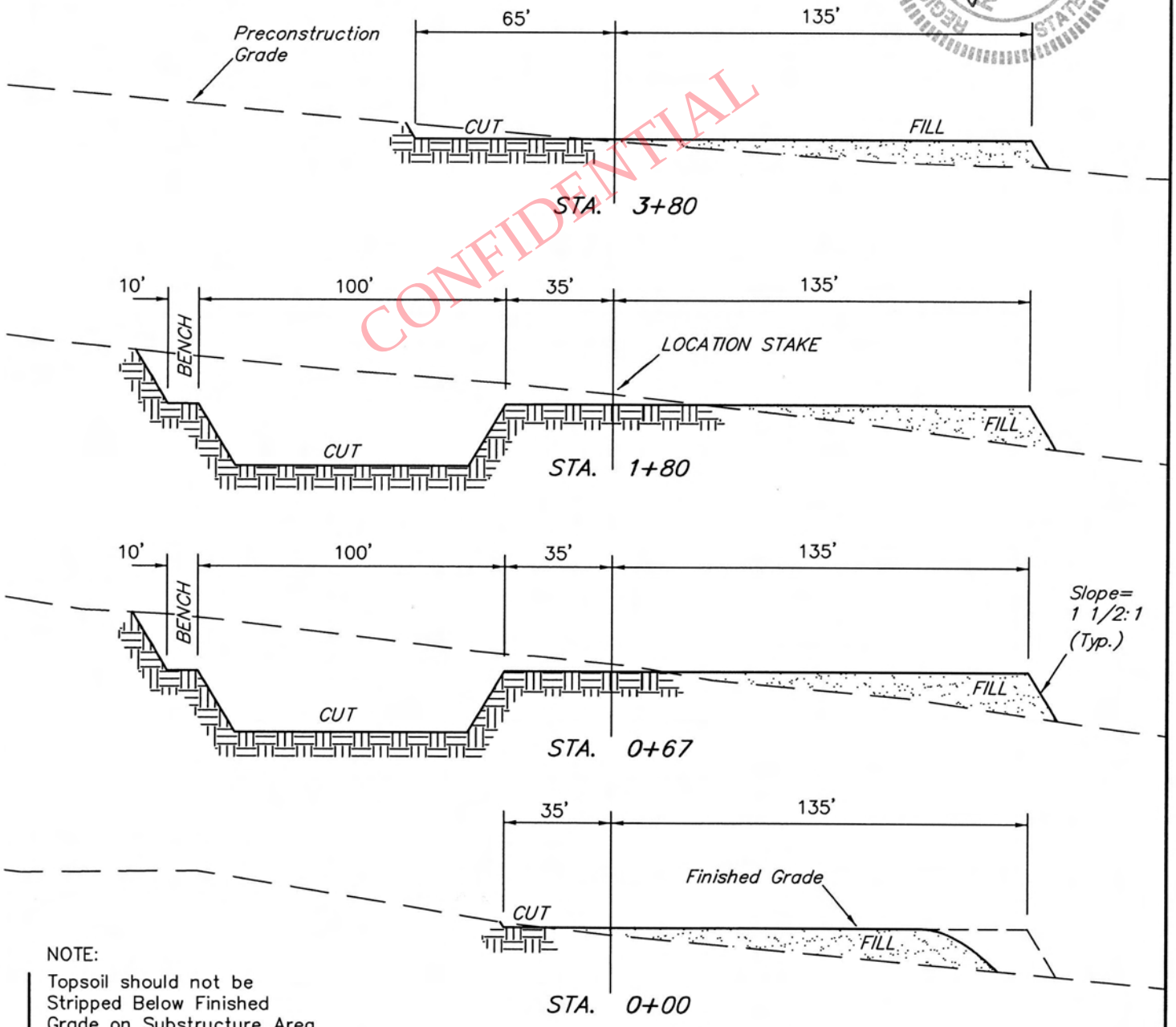
KINGS CANYON #15-32E & #10-32E
SECTION 32, T10S, R19E, S.L.B.&M.
SW 1/4 SE 1/4

1" = 20'
X-Section Scale
1" = 50'

DATE: 05-24-06
Drawn By: L.K.
REVISED: 11-26-07

REGISTERED LAND SURVEYOR No. ROBERT KAY STATE OF UTAH

CONFIDENTIAL



NOTE:
Topsoil should not be Stripped Below Finished Grade on Substructure Area.

APPROXIMATE YARDAGES

CUT

(6") Topsoil Stripping = 1,900 Cu. Yds.

Remaining Location = 8,190 Cu. Yds.

TOTAL CUT = 10,090 CU.YDS.

FILL = 6,300 CU.YDS.

* NOTE:
FILL QUANTITY INCLUDES 5% FOR COMPACTION

EXCESS MATERIAL = 3,790 Cu. Yds.

Topsoil & Pit Backfill (1/2 Pit Vol.) = 3,790 Cu. Yds.

EXCESS UNBALANCE (After Interim Rehabilitation) = 0 Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

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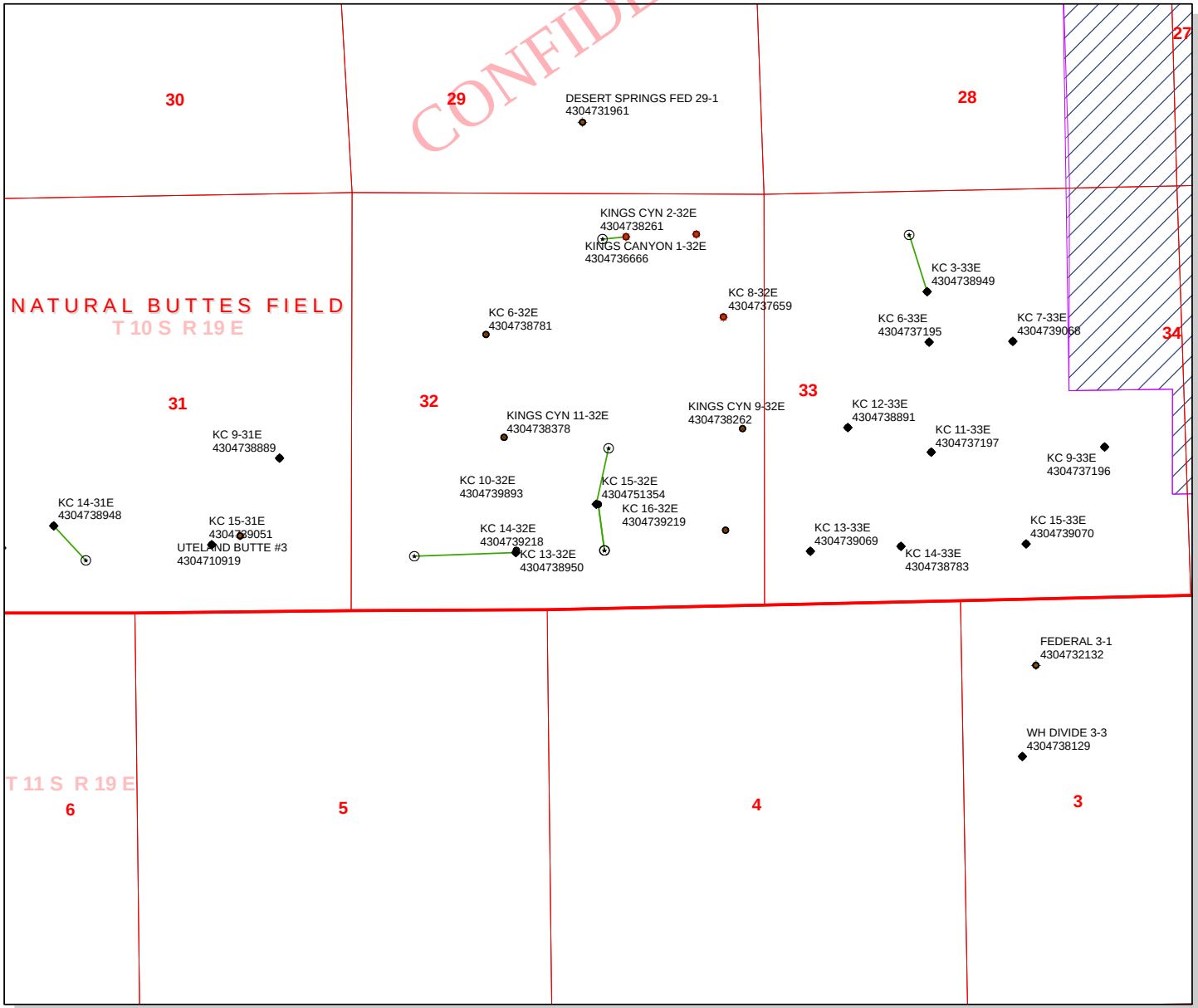

API Number: 4304751354

Well Name: KC 15-32E

Township 10.0 S Range 19.0 E Section 32

Meridian: SLBM

Operator: XTO ENERGY INC

Map Prepared:
Map Produced by Diana Mason

Units

STATUS
- ACTIVE
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Fields
- Sections
- Township
- Bottom Hole Location - AGRC

Wells Query
- <all other values>

Status
- APD - Aproved Permit
- DRL - Spuded (Drilling Commenced)
- GIW - Gas Injection
- GS - Gas Storage
- LA - Location Abandoned
- LOC - New Location
- OPS - Operation Suspended
- PA - Plugged Abandoned
- PGW - Producing Gas Well
- POW - Producing Oil Well
- RET - Returned APD
- SGW - Shut-in Gas Well
- SOW - Shut-in Oil Well
- TA - Temp. Abandoned
- TW - Test Well
- WDW - Water Disposal
- WIW - Water Injection Well
- WSW - Water Supply Well

1,600 800 0 1,600 Feet

1:15,660

SURFACE USE PLAN

XTO Energy Inc.
KC 15-32E
SHL: 1289' FSL & 2028' FEL Section 32-10S-19E
BHL: 700' FSL & 1950' FEL Section 32-10S-19E
UINTAH COUNTY, UTAH

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TWELVE POINT SURFACE USE PLAN

The dirt contractor will be provided with an approved copy of the surface use plan of operations before initiating construction.

1. Existing Roads:

   a. Proposed route to location is shown on the USGS quadrangle map: **See Exhibit "A".**

   b. The Proposed Well Location is approximately 14.65 miles from Ouray, UT

   c. Location of proposed well in relation to town or other reference point: **Proceed in a Westerly direction from Vernal, Utah along U.S. Highway 40, approximately 14.0 miles to the junction of State Highway 88. Exit left and proceed in a Southerly direction, approximately 17.0 miles to Ouray, UT. Proceed in a Southerly, then Southeasterly direction, approximately 9.1 miles on the Seep Ridge Road to the junction of this road and an existing road to the South. Turn right and proceed in a Southerly direction, approximately 2.8 miles to the junction of this road and an existing road to the west. Turn Right and proceed in a Westerly, then a Southwesterly direction, approximately 0.5 miles to the junction of this road and an existing road to the North. Turn Right and proceed in a Northerly, then Southwesterly direction, approximately 12.3 miles to the junction of this road and an existing road to the Southwest. Turn Right and proceed in a Southwesterly, then Northerly direction, approximately 5.1 miles to the beginning of the proposed access for the #16-32 E to the west. Follow the road flags in a Westerly direction, approximately 350' to the beginning of the proposed access for the #14-32E to the Southeast. Follow the road flag in a Southeasterly, then Southwesterly, then Northerly, then Southwesterly direction, approximately 1.2 miles to the beginning of the proposed access to the Northeast. Follow the road flags in a Northeasterly direction, approximately 100', to the proposed location.**

   d. All existing roads within 1 mile of the drill site are shown on Exhibit "A". If necessary, all existing roads that will be used for access to the well location will be maintained to their current condition or better unless SITLA approval or consent is given to upgrade the existing road(s).

   e. The use of roads under State and County Road Department maintenance are necessary to access the Kings Canyon area. However, an encroachment permit is not anticipated since no upgrades to the State or County Road system are proposed at this time.

   f. All existing roads will be maintained and kept in good repair during all phases of the operation.

2. **Planned Access Roads:**

a. From the proposed KC 11-32E access road, an access is proposed trending northwest, approximately 350' to the proposed well site. The access consist of entirely new disturbance and crosses no significant drainages. A road design plan is not anticipated at this time.

b. The proposed access road will consist of a 24' travel surface within a 30' disturbed area.

c. SITLA approval to construct and utilize the proposed access road is requested with this application. Federal surface use is being requested through a separate federal right-of-way application.

d. A maximum grade of 10% will be maintained throughout the project with no cuts and fills required to access the well.

e. No turnouts are proposed.

f. No culverts and several low water crossings are anticipated. Adequate drainage structures will be incorporated into the road.

g. No surface material will come from SITLA, Federal or Indian Lands.

h. No gates or cattle guards are anticipated at this time.

i. Surface disturbance and vehicular travel will be limited to the approved location access road.

j. Other: **See general information below.**

Surface disturbance and vehicular travel will be limited to the approved location and access road only. Any additional surface area needed must be approved by SITLA in advance.

All access roads and surface disturbance will conform to the standards outlined in the BLM and Forest Service publication: The Gold Book, Surface Operating Standards for Oil and Gas Exploration and Development. (2007).

The operator will be responsible for all maintenance of the access road including drainage structures.

If any additional right-of-way is necessary, no surface disturbing activities shall take place on the subject right-of-way until the associated APD is approved. The holder will adhere to all conditions of approval in the Surface Use Program and of the approved APD, relevant to any right-of way.

If at any time, the facilities located on state lands authorized by the terms of the lease are no longer included in the lease (due to contraction in the unit or other lease or unit boundary change) the State will process a change in authorization to the appropriate statue.

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If the well is production, the access road will be rehabilitated as needed and brought to Resource (Class III) Road Standards within a time period specified by SITLA. If upgraded, the access road must be maintained at these standards until the well is properly abandoned.

3. **Location of Existing Wells** (within a one mile radius of the proposed well)
"See Exhibit B"

4. **Location of Production Facilities:**

a. On-site facilities: Typical on-site facilities will consist of a wellhead, flow lines (typ 3" dia.), artificial lifting system (if necessary), wellhead compression (if necessary), gas/oil/water separator (3 phase), gas measurement and water measurement equipment, and a heated enclosure/building for weather and environmental protection. The tank battery will typically be constructed and surrounded by a berm of sufficient capacity to contain 1½ times the storage capacity of the largest tank(s). The tanks typically necessary for the production of this well will be 1 – 300 bbl steel, above ground tank for oil/condensate and 1 – 300 bbl steel, tank for produced water. All loading lines and valves for these tanks will be placed inside the berm surrounding the tank battery.

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All oil/condensate production and measurement shall conform to the provisions of 43 CFR § 3162.7 and Onshore Oil and Gas Order No. 4, if applicable. Other on-site equipment and system may include methanol injection and winter weather protection.

All permanent (in place for six months or longer) structures constructed or installed on the well site location will be painted a flat, non-reflective color to match the standard environmental colors, as specified by the COA's in the APD. All facilities will be painted within six months of installation. Facilities required by comply with the Occupational Safety and Health Act (OSHA) may be excluded.

b. Off-site facilities: **N/A**

c. Pipelines: The well will be produced into a 20" or less buried steel gas pipeline and 12" or less poly or flex steel (depending on pressures) water pipeline and transported to either an existing pipeline ROW (3rd party transporter) or gas gathering facility. See Exhibit "C" for the proposed pipeline route.

d. Power lines: There are no plans to include power lines in this application. In the event power is required, a ROW application will be submitted to the appropriate agencies.

5. **Location and Type of Water Supply:**

Water will be purchased from a commercial water source and trucked via third party to the location over approved access roads.

6. **Source of Construction Material:**

a. No construction material will be removed from SITLA, Federal, or Tribal lands

b. If any gravel is used it will be obtained from a State approved gravel pit.

c. Pad construction material will be obtained from (if the material source is federally owned, a map will be included showing the location of the material):

All construction material will be purchased from private landowners and or from a commercial gravel/materials pit. All material will be trucked to location via third party trucking using only approved access roads.

d. The use of materials under BLM jurisdiction will conform to 43 CFR § 3610.2-3, if applicable.

7. **Methods of Handling Waste Disposal:**

a. Describe the methods and locations proposed for safe containment and disposal of waste material, e.g. cuttings, produced water, garbage, sewage, chemicals, etc.

b. The reserve pits will typically be lined with a synthetic material, ± 20 mils in thickness. The reserve pits shall be located in cut material, with at least 50% of the pit volume being below original ground level. Three sides of the reserve pits will be fenced before drilling starts. The fourth side will be fenced as soon as drilling is completed, and shall remain until the pits are dry. Appropriate precautions, such as bird netting or bird balls and wildlife fencing will be used in order to prevent access and mortality of birds and other wildlife or livestock.

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c. Muds and cuttings will be solidified in place and buried. All precautions will be used as to minimize damage done to the pit liner while mixing is taking place.

d. Trash must be contained in a trash cage and hauled away to an approved disposal site as necessary but no later than at the completion of drilling operations.

e. Sewage from trailers and chemical portable toilets will be removed on a regular basis by a third party contractor and disposed of at an authorized sanitary waste facility.

f. No chemicals subject reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completion of the well.

g. Any and all chemicals used during the drilling and completion of the well will be kept to a minimum and stored within the boundaries of the well pad. The third party chemical contractor will be responsible for containment and clean-up and removal of all spilled chemicals on location.

8. **Ancillary Facilities:** No ancillary facilities will be required during the drilling or completion of the well.

9. **Well Site Layout:** depict the pit, rig, cut and fill, topsoil, etc. on a plat with a scale of at least 1"=50'. **See Exhibit "D".**

a. During project construction, surface disturbance and vehicle travel shall be limited to the approved location and access routes. Any additional area needed must be approved by the State prior to use.

b. The operator will provide a trash cage for the collection and containment of all trash. The trash will be disposed in an authorized landfill. The location and access roads shall be kept litter free.

c. The pad has been staked at its maximum size; however it will be constructed smaller if possible, depending on rig availability. Should the layout change, this application will be amended and approved utilizing a sundry notice.

d. All surface disturbing activities, will be supervised by a qualified, responsible company representative who is aware of the terms and conditions of the APD and specifications in the approved plans.

e. Dust will be controlled during all phases of project implementation through the use of water or approved dust suppressants.

f. All cut and fill slopes will be such that stability can be maintained for the life of the activity.

g. Diversion ditches will be constructed as shown around the well site to prevent surface waters from entering the well site area.

h. The site surface will be graded to drain away from the pit to avoid pit spillage during large storm events.

i. Materials obtained from the construction of location, like topsoil and vegetation will be stock piled as indicated and permitted by the approved APD.

j. The topsoil will be stockpiled for reclamation in such a way as to prevent soil loss and contamination

k. Pits will remain fenced until site cleanup.

10. **Plans for Restoration of the Surface:** (Interim Reclamation and Final Reclamation)

a. Prior to disturbance, the topsoil will be separately removed and segregated from other materials. The topsoil depth will be decided by the State during the onsite. Topsoil will be segregated from subsoil without mixing them, based upon site specific conditions. **Typically as specified by the approved APD.**

b. Topsoil along the access road will be reserved in place adjacent to the road as indicted.

c. Within 30-45 days after completion of well, all equipment that is not necessary for production shall be removed.

d. The reserve pit and that portion of the location not needed for production will be reclaimed in a given time period as specified by SITLA in the approved APD.

e. Before any dirt work to restore the location takes place, the reserve pit must be dry and ready for burial. If necessary, any approvals needed to commence the burial operation will be obtained.

f. All road surfacing will be removed prior to the rehabilitation of roads, if necessary.

g. Reclaimed roads will have the berms and cuts reduced and will be closed to vehicle use.

h. All disturbed areas will be re-contoured to replicate the natural slope.

i. The stockpiled topsoil will be evenly distributed over the disturbed area.

j. Prior to reseeding, all disturbed areas, including the access road will be scarified and left with a rough surface. All seed utilized will be tested prior to application to ensure

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SITLA specifications for PLS, purity, noxious weeds, etc. have been met.

k. The following seed mixture will be used: **As specified in the conditions of approval.**

l. Prior to final abandonment of the site, all disturbed areas, including the access road, will be scarified and left with a rough surface. The site will then be seeded and/or planted as prescribed by SITLA

11. **Surface:** The surface is property of the State of Utah under management of the SITLA – State Office, 675 East 500 South, Suite 500, Salt Lake City, UT 84102-2818; 801-538-5100.

Mineral: The mineral ownership is that of the State of Utah under management of SITLA – State office, 675 East 500 South, Suite 500, Salt Lake City, UT 84102-2818; 801-538-5100.

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12. **Other Information:**

a. AIA Archaeological conducted a Class II archeological survey in 2006, when the original permit application was submitted. A copy of the report was submitted at this time, under separate cover, to the appropriate agencies by AIA Archaeological.

b. Alden Hamblin conducted a paleontological survey in 2006, when the original permit application was submitted. A copy of the report was submitted at this time, under separate cover, to the appropriate agencies by Alden Hamblin.

c. No raptor habitat is known to exist within 1 miles of the proposed well site.

d. No drainage crossings that require additional State or Federal approval are being crossed.

e. **An off-lease federal right-of-way is necessary prior to any construction outside of state section 32.**

Operator Certification:

a. Permitting and Compliance:

Krista Wilson
Permitting Tec.
XTO Energy Inc.
382 CR 3100
Aztec NM 87410
505-333-3100

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b. Drilling and Completions:

Brent Martin
XTO Energy Inc.
382 CR 3100
Aztec, NM 87410
505-333-3100

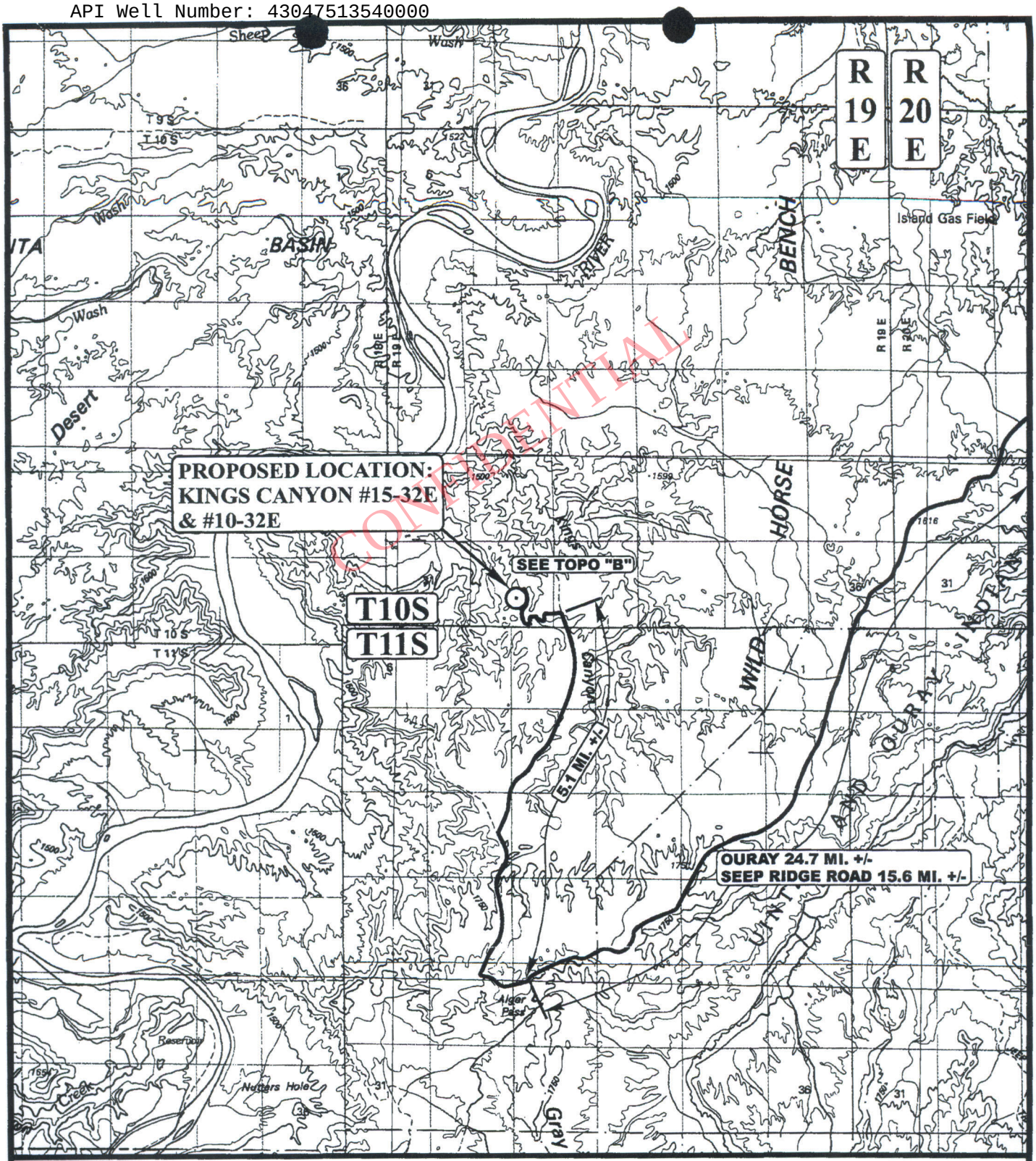
c. Certification:

I hereby certify that, I or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or XTO Energy Inc., are responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Executed this 10th day of January, 2011.

Signature: Krista Wilson
Krista Wilson

API Well Number: 43047513540000



LEGEND:

⊙ PROPOSED LOCATION

N

DOMINION EXPLR. & PROD., INC.

KINGS CANYON #15-32E & #10-32E
SECTION 32, T10S, R19E, S.L.B.&M.
SW 1/4 SE 1/4

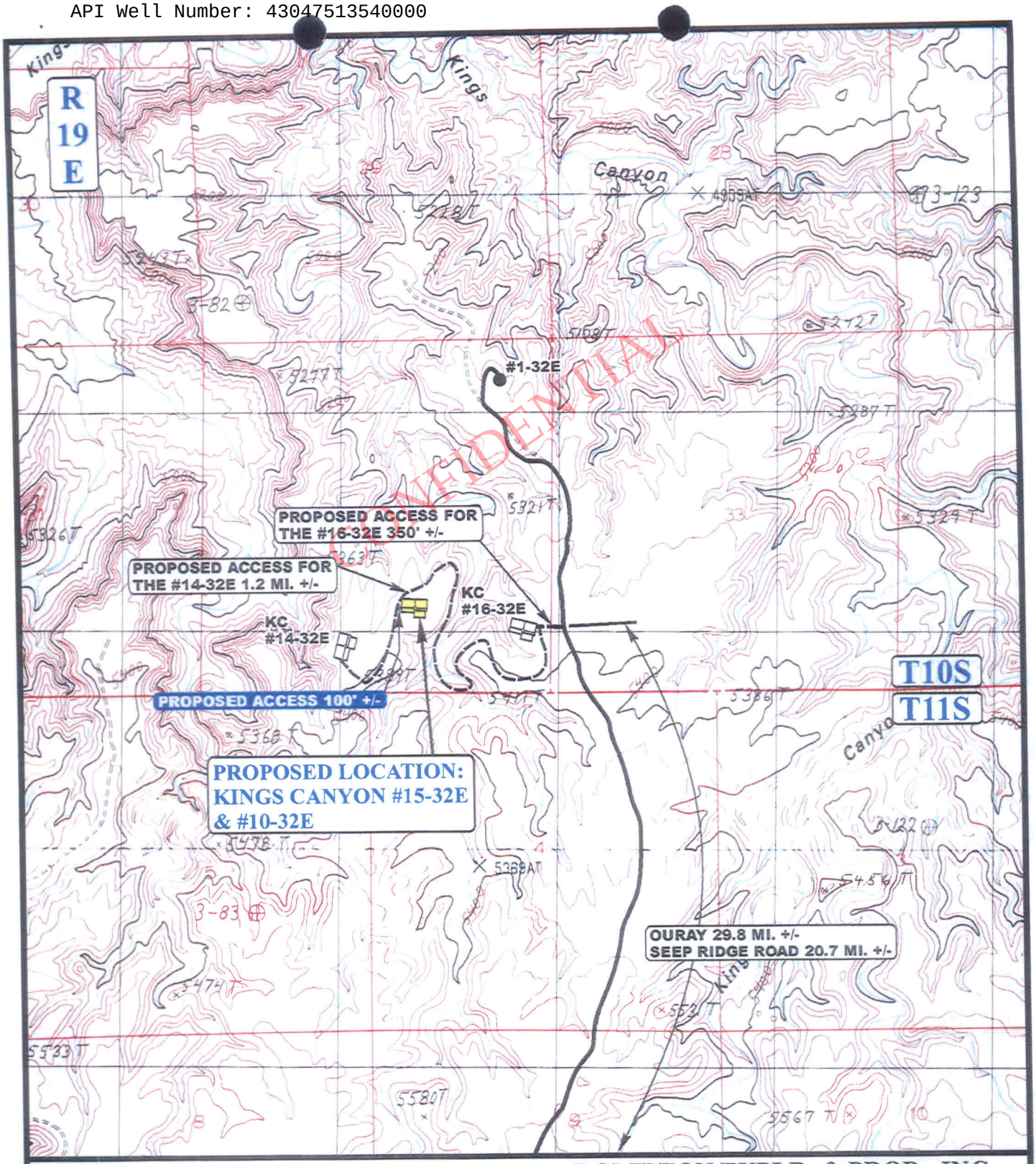
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	05 MONTH	26 DAY	06 YEAR	A TOPO
SCALE: 1:100,000	DRAWN BY: C.H.	REVISED: 00-00-00		

EXHIBIT A

EXHIBIT

API Well Number: 43047513540000



LEGEND:

EXISTING ROAD

PROPOSED ACCESS ROAD

N

DOMINION EXPLR. & PROD., INC.

KINGS CANYON #15-32E & #10-32E

SECTION 32, T10S, R19E, S.L.B.&M.

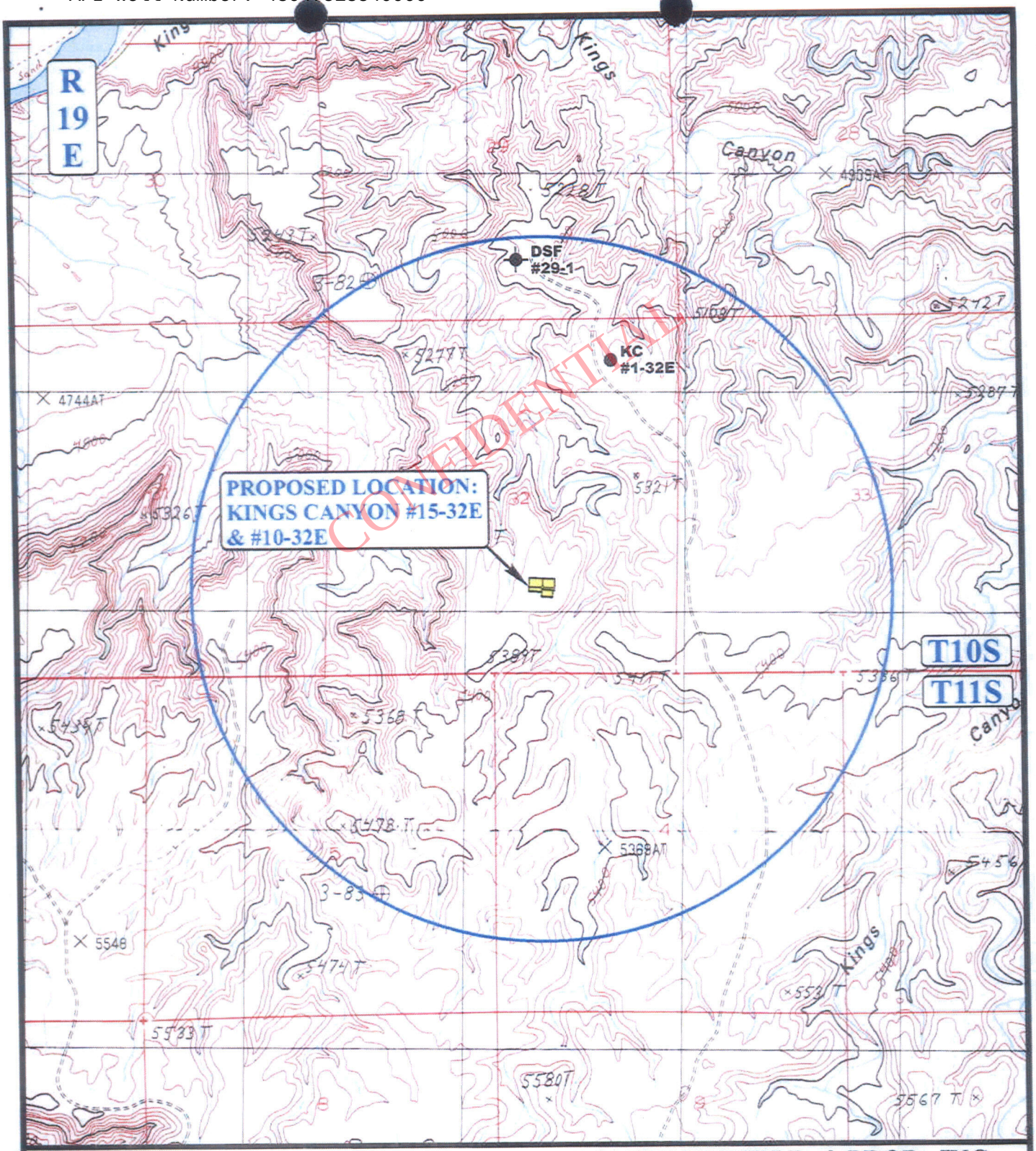
NW 1/4 SE 1/4

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	05 MONTH	26 DAY	06 YEAR	B TOPO
SCALE: 1" = 2000'	DRAWN BY: C.H.	REVISED: 00-00-00		

EXHIBIT A

API Well Number: 43047513540000



LEGEND:

- DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED

N

DOMINION EXPLR. & PROD., INC.

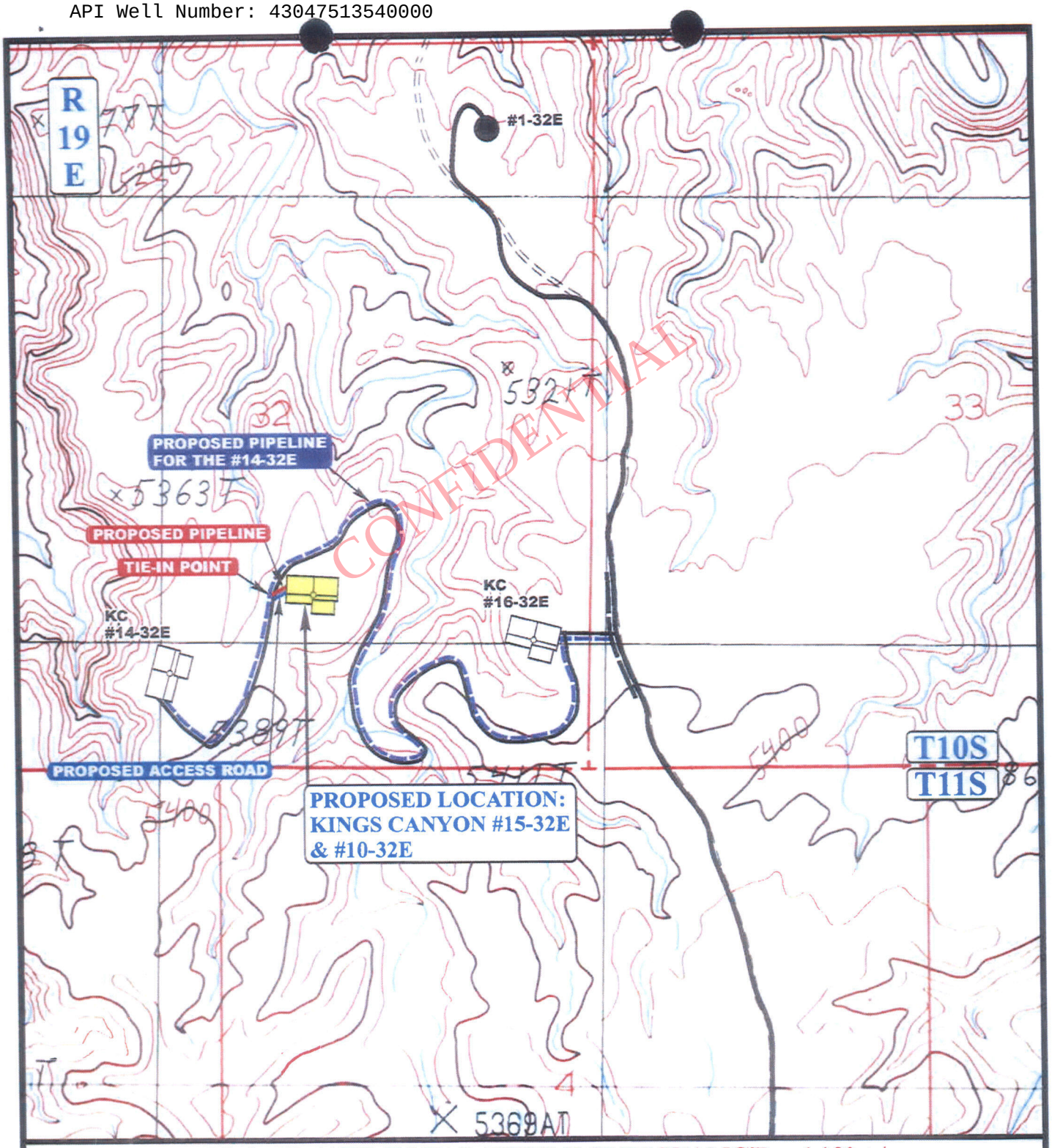
KINGS CANYON #15-32E & #10-32E
SECTION 32, T10S, R19E, S.L.B.&M.
SW 1/4 SE 1/4

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	05 MONTH	26 DAY	06 YEAR
SCALE: 1" = 2000'	DRAWN BY: C.H.	REVISED: 00-00-00	C TOPO

EXHIBIT B

API Well Number: 43047513540000



APPROXIMATE TOTAL PIPELINE DISTANCE = 140' +/-

LEGEND:

PROPOSED ACCESS ROAD
EXISTING PIPELINE
PROPOSED PIPELINE

N

DOMINION EXPLR. & PROD., INC.

KINGS CANYON #15-32E & #10-32E
SECTION 32, T10S, R19E, S.L.B.&M.
SW 1/4 SE 1/4

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	05 MONTH	26 DAY	06 YEAR	D TOPO
SCALE: 1" = 1000'	DRAWN BY: C.H.	REVISED: 00-00-00		

EXHIBIT C

API Well Number: 43047513540000

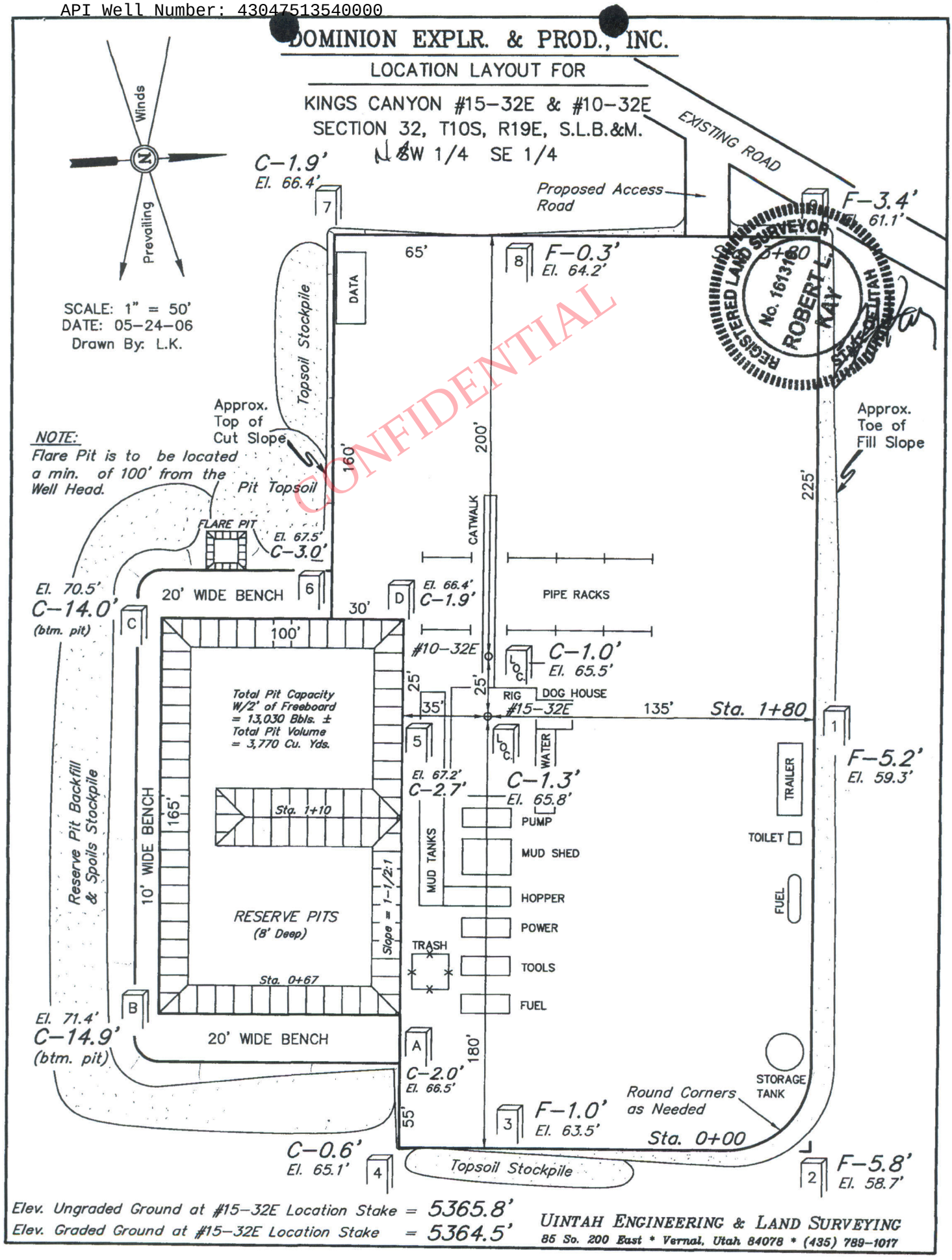


EXHIBIT D

API Well Number: 43047513540000

DOMINION EXPLR. & PROD., INC.

TYPICAL CROSS SECTIONS FOR

KINGS CANYON #15-32E & #10-32E
SECTION 32, T10S, R19E, S.L.B.&M.
SW 1/4 SE 1/4

1" = 20'
X-Section Scale
1" = 50'

DATE: 05-24-06
Drawn By: L.K.

REGISTERED LAND SURVEYOR No. 161319 ROBERT L. KAY STATE OF UTAH

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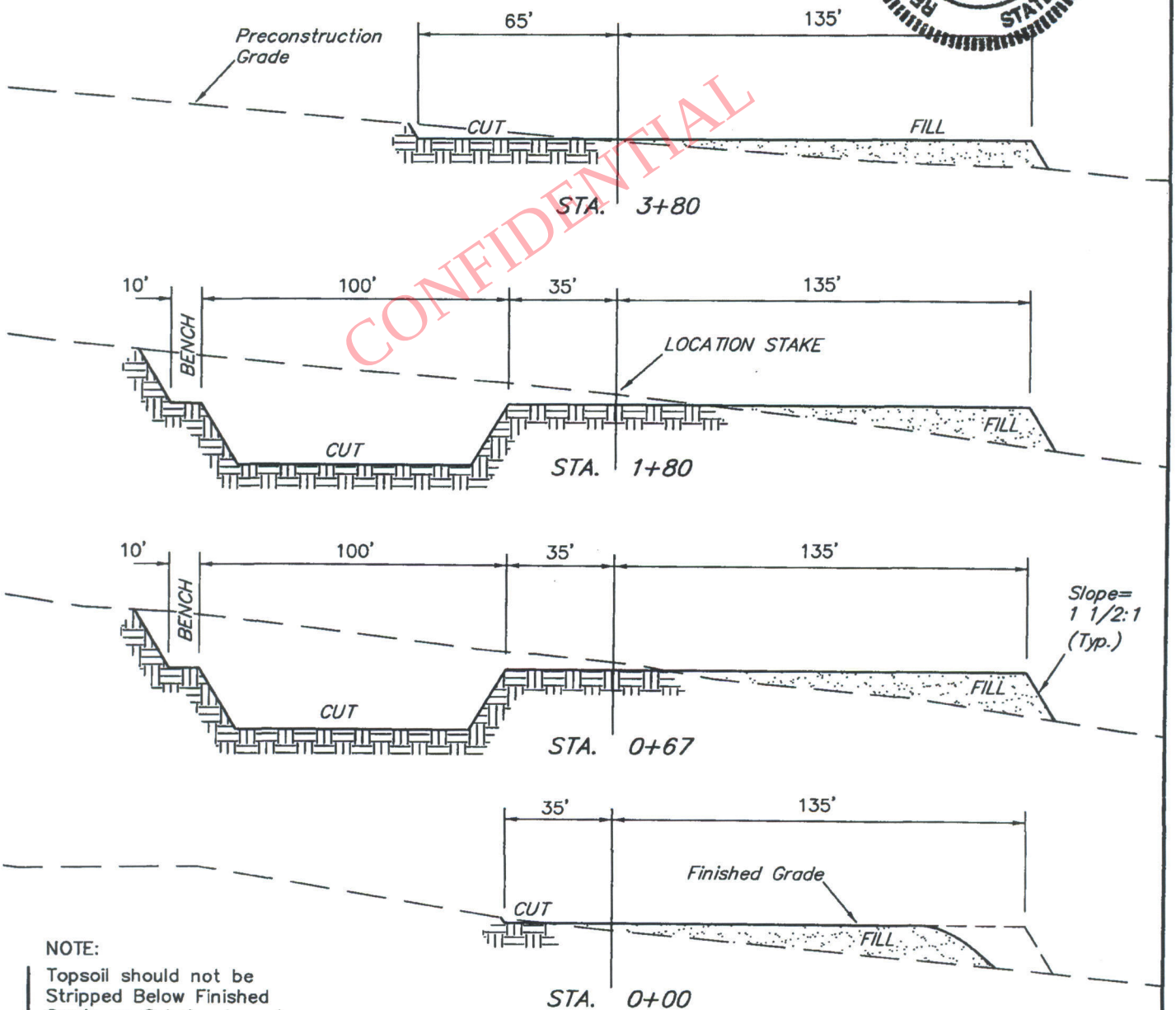

NOTE:
Topsoil should not be Stripped Below Finished Grade on Substructure Area.

APPROXIMATE YARDAGES

CUT

(6") Topsoil Stripping	=	1,900 Cu. Yds.
Remaining Location	=	8,190 Cu. Yds.
TOTAL CUT	=	10,090 CU.YDS.
FILL	=	6,300 CU.YDS.

* NOTE:
FILL QUANTITY INCLUDES 5% FOR COMPACTION

EXCESS MATERIAL	=	3,790 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	=	3,790 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	=	0 Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

EXHIBIT D

BOPE REVIEW XTO ENERGY INC KC 15-32E 43047513540000

Well Name	XTO ENERGY INC KC 15-32E 43047513540000			
String	Surf	Prod		
Casing Size(")	9.625	5.500		
Setting Depth (TVD)	2255	10000		
Previous Shoe Setting Depth (TVD)	0	2255		
Max Mud Weight (ppg)	8.8	9.2		
BOPE Proposed (psi)	500	3000		
Casing Internal Yield (psi)	3520	7740		
Operators Max Anticipated Pressure (psi)	4400	8.5		

Calculations	Surf String	9.625	"	
Max BHP (psi)	.052*Setting Depth*MW=	1032		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	761	NO	air drill
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	536	NO	
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	536	NO	Reasonable depth
Required Casing/BOPE Test Pressure=		2255	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient	

Calculations	Prod String	5.500	"	
Max BHP (psi)	.052*Setting Depth*MW=	4784		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	3584	NO	
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	2584	YES	OK
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	3080	NO	Reasonable
Required Casing/BOPE Test Pressure=		3000	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		2255	psi *Assumes 1psi/ft frac gradient	

Calculations	String		"	
Max BHP (psi)	.052*Setting Depth*MW=			
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO	
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO	
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO	
Required Casing/BOPE Test Pressure=			psi	
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient	

Calculations	String		"	
Max BHP (psi)	.052*Setting Depth*MW=			
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO	
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO	
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO	
Required Casing/BOPE Test Pressure=			psi	
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient	

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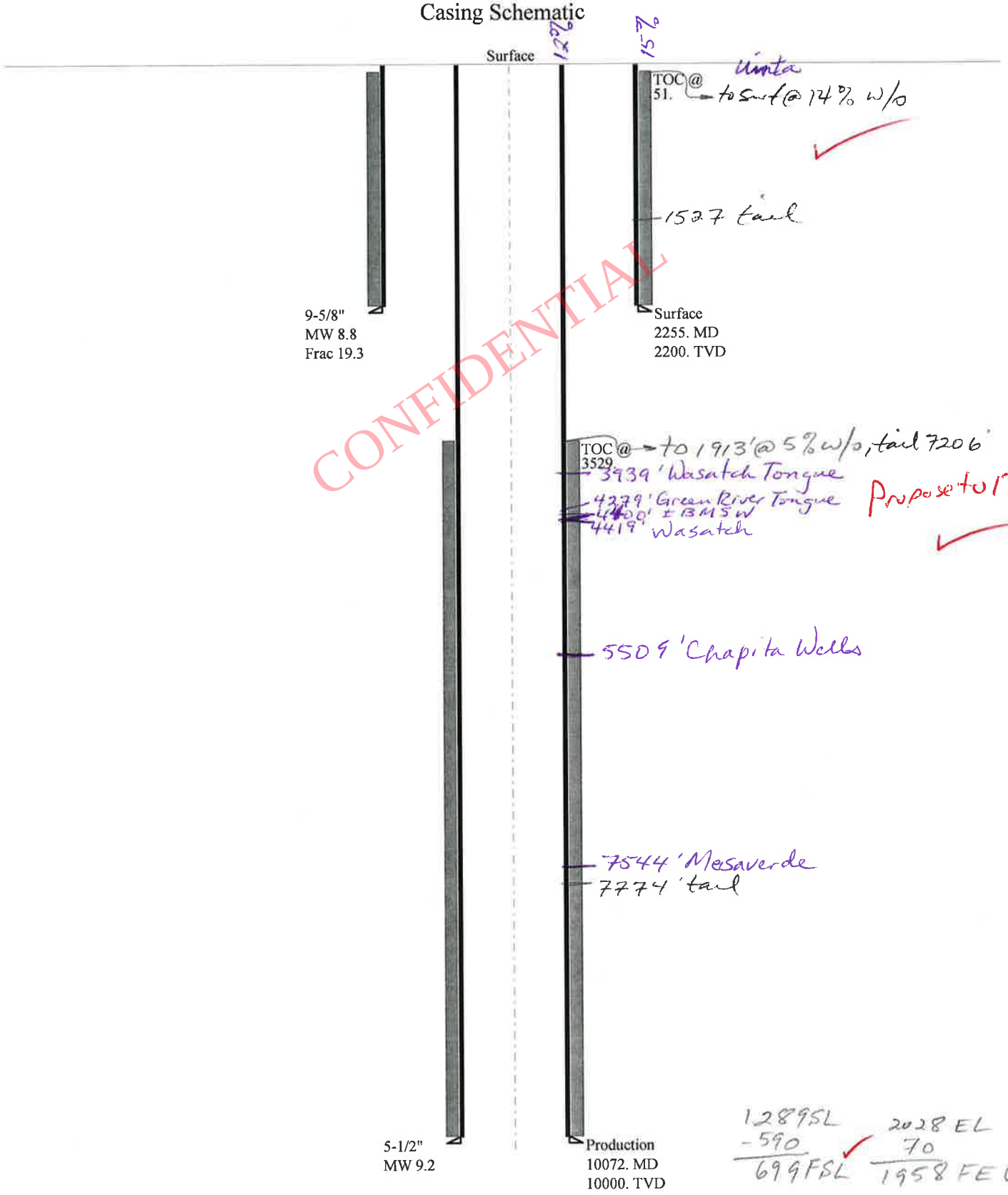
API Well Number: 43047513540000

43047513540000 KC 15-32E

Casing Schematic



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Uinta

to 1913' @ 5% w/o, tail 7206'

Propose to 1755'

1289 FSL
-590
699 FSL

2028 FEL
-70
1958 FEL

SW SE Sec 32 10S-19E

API Well Number: 43047513540000

Well name:	**43047513540000 KC 15-32E**		
Operator:	**XTO ENERGY INC**		
String type:	Surface	Project ID:	43-047-51354
Location:	UINTAH COUNTY		

Design parameters:

Collapse
Mud weight: 8.800 ppg
Design is based on evacuated pipe.

Burst
Max anticipated surface pressure: 1,984 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 2,248 psi

No backup mud specified.

Minimum design factors:

Collapse:
Design factor 1.125

Burst:
Design factor 1.00

Tension:
8 Round STC: 1.80 (J)
8 Round LTC: 1.70 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on air weight.
Neutral point: 1,958 ft

Environment:
H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 105 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: 51 ft

Directional well information:
Kick-off point 0 ft
Departure at shoe: 442 ft
Maximum dogleg: 3 °/100ft
Inclination at shoe: 15 °

Re subsequent strings:
Next setting depth: 10,072 ft
Next mud weight: 9.200 ppg
Next setting BHP: 4,814 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 2,255 ft
Injection pressure: 2,255 psi

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Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost ($)
1	2255	9.625	36.00	J-55	ST&C	2200	2255	8.796	19601

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	1006	2020	2.009	2248	3520	1.57	79.2	394	4.98 J

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Mining
Phone: 801 538-5357
FAX: 801-359-3940
Date: December 1,2010
Salt Lake City, Utah

Remarks:
Collapse is based on a vertical depth of 2200 ft, a mud weight of 8.8 ppg The casing is considered to be evacuated for collapse purposes.
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.
Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.

API Well Number: 43047513540000

Well name:	**43047513540000 KC 15-32E**	
Operator:	**XTO ENERGY INC**	
String type:	Production	Project ID: 43-047-51354
Location:	UINTAH COUNTY	

Design parameters:

Collapse
Mud weight: 9.200 ppg
Design is based on evacuated pipe.

Burst
Max anticipated surface pressure: 2,579 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 4,779 psi

No backup mud specified.

Minimum design factors:

Collapse:
Design factor 1.125

Burst:
Design factor 1.00

Tension:
8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.60 (B)

Tension is based on air weight.
Neutral point: 8,677 ft

Environment:
H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 214 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: 2,184 ft

Directional well information:
Kick-off point 0 ft
Departure at shoe: 589 ft
Maximum dogleg: 3 °/100ft
Inclination at shoe: 0 °

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Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost ($)
1	10072	5.5	17.00	N-80	LT&C	10000	10072	4.767	56770

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	4779	6290	1.316	4779	7740	1.62	170	348	2.05 J

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Mining
Phone: 801 538-5357
FAX: 801-359-3940
Date: December 1,2010
Salt Lake City, Utah

Remarks:
Collapse is based on a vertical depth of 10000 ft, a mud weight of 9.2 ppg The casing is considered to be evacuated for collapse purposes.
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.
Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.

API Well Number: 43047513540000

From: Jim Davis
To: Bonner, Ed; Mason, Diana
CC: krista_wilson@xtoenergy.com
Date: 2/2/2011 1:52 PM
Subject: APD approvals

The following APDs have been approved by SITLA including arch and paleo clearance.

Tidewater State 2-12-2219 (4301950008)

KC 15-32E UINTAH (4304751354)

-Jim

Jim Davis
Utah Trust Lands Administration
jimdavis1@utah.gov
Phone: (801) 538-5156

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API Well Number: 43047513540000

ON-SITE PREDRILL EVALUATION
Utah Division of Oil, Gas and Mining

Operator	XTO ENERGY INC								
Well Name	KC 15-32E								
API Number	43047513540000			**APD No**	3056	**Field/Unit**		NATURAL BUTTES	
Location: 1/4,1/4	NWSE	**Sec**	32	**Tw**	10.0S	**Rng**	19.0E	1289 FSL	2028 FEL
GPS Coord (UTM)						**Surface Owner**			

Participants

Floyd Bartlett (DOGM), Jim Davis (SITLA), Ken Secrist, and Zander McIntire (XTO Energy, INC.), Ben Williams (UDWR), Brandon Bowthorpe (U.E.L.S.), Billy McClure (LaRose Construction), Randy Jackson (Jackson Construction).

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Regional/Local Setting & Topography

Floyd Bartlett (DOGM), Jim Davis (SITLA), Ken Secrist, and Zander McIntire (XTO Energy, INC.), Ben Williams (UDWR), Brandon Bowthorpe (U.E.L.S.), Billy McClure (LaRose Construction), Randy Jackson (Jackson Construction).

Two wells were originally approved for this location. The KC #15-32E was pre-sited 11/29/2006. It was permitted but not drilled and the permit has expired. The KC #10-32E was pre-sited on 04/03/2008. It was permitted and not drilled but the permit has been extended to 07/11/2011. The location has been partially constructed. This APD is a re-application for the KC #15-32E. This is the write-up from the Pre-site completed on 04/03/2008.

The general area is the upper Kings Canyon drainage of Wild Horse Bench located approximately 29.8 road miles southwest of Ouray, Utah. Wild Horse Bench is a large open flat area with somewhat steep and frequent side-draws draining to the west toward the Green River and the northeast toward Willow Creek. No seeps, springs or streams are known to exist in the area. An occasional pond constructed to furnish water for livestock exists. The Uintah and Ouray Indian Reservation is to the east. The location is accessed by existing Uintah County or oilfield development roads to within 1.2 miles of the pad, which will require new construction across some difficult steep terrain.

The KC 10-32 and KC 15-32 proposed gas wells are directional wells to be drilled from the same pad. The location is near the end of a large long bench which breaks off into a deep drainage to the north. Only a moderate amount of cut and fill will be required for pad construction. A swale on the upper portion of the location will be filled. No diversions are needed around the completed pad. The drainage to the north joins Kings Canyon. The Green River is approximately 3 1/2 miles down drainage. The site has a fair native desert shrub-grass vegetation cover with open spaces protected by a brown rock pavement. Surface run-off is light.

Surface Use Plan

Current Surface Use
Grazing
Recreational
Wildlfe Habitat
Existing Well Pad

New Road Miles	Well Pad	Src Const Material	Surface Formation
	Width 280 **Length** 380	Onsite	UNTA

Ancillary Facilities N

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Antelope, deer, elk, coyotes, rabbits and miscellaneous small mammals and birds.

Big sagebrush, broom snakeweed, curly mesquite, shadscale, globemallow, halogeton, bud sage, horsebrush and annual mustard.

.

Soil Type and Characteristics

Moderately deep sandy loam. Some surface rock

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Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diverson Required? N

Berm Required? N

Erosion Sedimentation Control Required? N

Paleo Survey Run? N **Paleo Potental Observed?** N **Cultural Survey Run?** N **Cultural Resources?**

Reserve Pit

Site-Specific Factors		Site Ranking	
Distance to Groundwater (feet)	>200	0	
Distance to Surface Water (feet)	>1000	0	
Dist. Nearest Municipal Well (ft)	>5280	0	
Distance to Other Wells (feet)		20	
Native Soil Type	Mod permeability	10	
Fluid Type	Fresh Water	5	
Drill Cuttings	Normal Rock	0	
Annual Precipitation (inches)		0	
Affected Populations			
Presence Nearby Utility Conduits	Not Present	0	
	Final Score	35	1 Sensitivity Level

Characteristics / Requirements

100' x 140' x 8' deep located in an area of cut on the southeast side of the location. Sensitivity level 1. Liner and sub felt are both required.

Closed Loop Mud Required? N **Liner Required?** Y **Liner Thickness** 16 **Pit Underlayment Required?** Y

Other Observations / Comments

Floyd Bartlett	4/3/2008
Evaluator	**Date / Time**

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Application for Permit to Drill
Statement of Basis

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
3056	43047513540000	LOCKED	GW	S	No
Operator	XTO ENERGY INC		**Surface Owner-APD**		
Well Name	KC 15-32E		**Unit**		
Field	NATURAL BUTTES		**Type of Work**	DRILL	
Location	NWSE 32 10S 19E S 1289 FSL 2028 FEL		GPS Coord (UTM)	602349E	4417108N

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Geologic Statement of Basis

XTO proposes to set 2,225 feet of surface casing cemented to the surface. The base of the moderately saline water is estimated at 4,400 feet. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the proposed location. The surface formation at this location is the Uinta Formation. The Uinta Formation is made up of discontinuous sands interbedded with shales and are not expected to produce prolific aquifers. Production casing cement should be brought up to or above the base of the moderately saline ground water in order to isolate fresher waters uphole. The proposed casing and cement should adequately protect useable ground water in the area.

Brad Hill	11/29/2010
APD Evaluator	**Date / Time**

Surface Statement of Basis

Two wells were originally approved for this location. The KC #15-32E was pre-sited 11/29/2006. It was permitted but not drilled and the permit has expired. The KC #10-32E was pre-sited on 04/03/2008. It was permitted and not drilled but the permit has been extended to 07/11/2011. The location has been partially constructed. This APD is a re-application for the KC #15-32E. This is the write-up from the Pre-site completed on 04/03/2008.

The general area is the upper Kings Canyon drainage of Wild Horse Bench located approximately 29.8 road miles southwest of Ouray, Utah. Wild Horse Bench is a large open flat area with somewhat steep and frequent side-draws draining to the west toward the Green River and the northeast toward Willow Creek. No seeps, springs or streams are known to exist in the area. An occasional pond constructed to furnish water for livestock exists. The Uintah and Ouray Indian Reservation is to the east. The location is accessed by existing Uintah County or oilfield development roads to within 1.2 miles of the pad, which will require new construction across some difficult steep terrain.

The KC 10-32 and KC 15-32 proposed gas wells are directional wells to be drilled from the same pad. The location is near the end of a large long bench which breaks off into a deep drainage to the north. Only a moderate amount of cut and fill will be required for pad construction. A swale on the upper portion of the location will be filled. No diversions are needed around the completed pad. The drainage to the north joins Kings Canyon. The Green River is approximately 3 1/2 miles down drainage. The site has a fair native desert shrub-grass vegetation cover with open spaces protected by a brown rock pavement. Surface run-off is light.

Both the surface and minerals are owned by SITLA. Mr. Jim Davis represented SITLA at the pre-site. He had no concerns regarding the proposed location. The site appears to be a suitable location for constructing a pad, drilling and operating a well and the only suitable site in the immediate area.

Ben Williams representing the UDWR stated the area is classified as yearlong critical habitat for antelope but water not forage is the factor limiting the growth of the herd. It is also classified as limited value yearlong habitat for deer and elk. He did not recommend any restrictions for any of these species. He furnished Jim

Davis of SITLA and Ken Secrest of XTO copies of his evaluation and a recommended seed mix to be used when the site is re-vegetated.

Floyd Bartlett	4/3/2008
Onsite Evaluator	**Date / Time**

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Surface	The reserve pit shall be fenced upon completion of drilling operations.
Surface	The well site shall be bermed to prevent fluids from leaving the pad.

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WORKSHEET
APPLICATION FOR PERMIT TO DRILL

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APD RECEIVED: 11/19/2010 **API NO. ASSIGNED:** 43047513540000

WELL NAME: KC 15-32E

OPERATOR: XTO ENERGY INC (N2615) **PHONE NUMBER:** 505 333-3145

CONTACT: Kelly Small

PROPOSED LOCATION: NWSE 32 100S 190E **Permit Tech Review:** ☑

SURFACE: 1289 FSL 2028 FEL **Engineering Review:** ☑

BOTTOM: 0700 FSL 1950 FEL **Geology Review:** ☑

COUNTY: UINTAH

LATITUDE: 39.89976 **LONGITUDE:** -109.80276

UTM SURF EASTINGS: 602349.00 **NORTHINGS:** 4417108.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 3 - State

LEASE NUMBER: ML-047059 **PROPOSED PRODUCING FORMATION(S):** WASATCH-MESA VERDE

SURFACE OWNER: 3 - State **COALBED METHANE:** NO

RECEIVED AND/OR REVIEWED:

- ☑ **PLAT**
- ☑ **Bond:** STATE/FEE - 104312762
- ☐ **Potash**
- ☐ **Oil Shale 190-5**
- ☐ **Oil Shale 190-3**
- ☐ **Oil Shale 190-13**
- ☑ **Water Permit:** Commercial
- ☐ **RDCC Review:**
- ☐ **Fee Surface Agreement**
- ☐ **Intent to Commingle**

Commingling Approved

LOCATION AND SITING:

- ☐ **R649-2-3.**

Unit:

- ☐ **R649-3-2. General**
- ☐ **R649-3-3. Exception**
- ☑ **Drilling Unit**

Board Cause No: R649-3-11

Effective Date:

Siting:

- ☑ **R649-3-11. Directional Drill**

Comments: Presite Completed

Stipulations:
5 - Statement of Basis - bhill
12 - Cement Volume (3) - hmacdonald
15 - Directional - dmason
23 - Spacing - dmason

GARY R. HERBERT
Governor
GREGORY S. BELL
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES
MICHAEL R. STYLER
Executive Director
Division of Oil, Gas and Mining
JOHN R. BAZA
Division Director

Permit To Drill

****

Well Name: KC 15-32E
API Well Number: 43047513540000
Lease Number: ML-047059
Surface Owner: STATE
Approval Date: 2/3/2011

Issued to:
XTO ENERGY INC, 382 Road 3100, Aztec, NM 87410

Authority:
Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of R649-3-11. The expected producing formation or pool is the WASATCH-MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:
This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

General:
Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:
In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Cement volume for the 5 1/2 production string shall be determined from actual hole diameter in order to place cement from the pipe setting depth back to 1755' MD as indicated in the submitted drilling

plan.

Additional Approvals:
The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan – contact Dustin Doucet
- Significant plug back of the well – contact Dustin Doucet
- Plug and abandonment of the well – contact Dustin Doucet

Notification Requirements:
The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well – contact Carol Daniels
  OR
  submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at https://oilgas.ogm.utah.gov
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing – contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program – contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well – contact Dan Jarvis

Contact Information:
The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office
  801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office
  801-231-8956 - after office hours

Reporting Requirements:
All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

Approved By:

For John Rogers
Associate Director, Oil & Gas

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: ML-047059

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL
Gas Well

8. WELL NAME and NUMBER:
KC 15-32E

2. NAME OF OPERATOR:
XTO ENERGY INC

9. API NUMBER:
43047513540000

3. ADDRESS OF OPERATOR:
382 Road 3100 , Aztec, NM, 87410

PHONE NUMBER:
505 333-3159 Ext

9. FIELD and POOL or WILDCAT:
NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
1289 FSL 2028 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NWSE Section: 32 Township: 10.0S Range: 19.0E Meridian: S

COUNTY:
UINTAH

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 1/1/2013	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	✓ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

XTO Energy hereby requests a one (1) year extension of the State APD for the referenced well.

Approved by the Utah Division of Oil, Gas and Mining

Date: January 09, 2012

By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Kelly Kardos	505 333-3145	Lead Sr. Permitting Tech
SIGNATURE		**DATE**
N/A		1/5/2012

RECEIVED: Jan. 05, 2012

The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047513540000

API: 43047513540000
Well Name: KC 15-32E
Location: 1289 FSL 2028 FEL QTR NWSE SEC 32 TWNP 100S RNG 190E MER S
Company Permit Issued to: XTO ENERGY INC
Date Original Permit Issued: 2/3/2011

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- **If located on private land, has the ownership changed, if so, has the surface agreement been updated?** ○ **Yes** ◉ **No**
- **Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?** ○ **Yes** ◉ **No**
- **Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?** ○ **Yes** ◉ **No**
- **Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?** ○ **Yes** ◉ **No**
- **Has the approved source of water for drilling changed?** ○ **Yes** ◉ **No**
- **Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?** ○ **Yes** ◉ **No**
- **Is bonding still in place, which covers this proposed well?** ◉ **Yes** ○ **No**

Signature: Kelly Kardos **Date:** 1/5/2012
Title: Sr. Permitting Tech **Representing:** XTO ENERGY INC

RECEIVED: Jan. 05, 2012

GARY R. HERBERT
Governor
GREGORY S. BELL
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES
MICHAEL R. STYLER
Executive Director
Division of Oil, Gas and Mining
JOHN R. BAZA
Division Director

March 20, 2013

Rick Redus
XTO Energy Inc.
382 Road 3100
Aztec, NM 87410

Re: APDs Rescinded for XTO Energy Inc.
Uintah/Emery County

Dear Mr. Redus:

Enclosed find the list of APDs that you requested to be rescinded. No drilling activity at these locations has been reported to the division. Therefore, approval to drill these wells is hereby rescinded, effective March 20, 2013.

A new APD must be filed with this office for approval prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,

Diana Mason
Environmental Scientist

cc: Well File
Bureau of Land Management, Vernal
SITLA, Ed Bonner

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114 -5801
telephone (801) 538-5340 • facsimile (801) 359-3940 • TTY (801) 538-7458 • *www.ogm.utah.gov*

UTAH DNR
OIL, GAS & MINING

Fwd: APDs

Brad Hill <bradhill@utah.gov> Wed, Mar 20, 2013 at 2:35 PM
To: Diana Mason <DIANAWHITNEY@utah.gov>

Here are some you can get rid of.

-------- Forwarded message --------
From: **Redus, Richard** <Richard_Redus@xtoenergy.com>
Date: Wed, Mar 20, 2013 at 2:31 PM
Subject: APDs
To: "bradhill@utah.gov" <bradhill@utah.gov>

Mr Hill,

Please cancel the below APD's as XTO will not be drilling these wells within the foreseeable future.

XTO ENERGY INC	4304737569	RBU 14-15F	DRILL	01/12/2006	01/12/2013
XTO ENERGY INC	4304752133	LCU 4-16H	DRILL	01/12/2012	01/12/2013
XTO ENERGY INC	4301530704	UT FED 18-7-22-24	DRILL	01/24/2007	01/24/2013
XTO ENERGY INC	4304737648	RBU 6-4E	DRILL	01/30/2006	01/30/2013
XTO ENERGY INC	4304737652	RBU 7-16F	DRILL	01/30/2006	01/30/2013
XTO ENERGY INC	4304737653	LCU 14-9H	DRILL	01/30/2006	01/30/2013
XTO ENERGY INC	4304751354	KC 15-32E	DRILL	02/03/2011	02/03/2013
XTO ENERGY INC	4304736295	RBU 10-21E	DRILL	02/09/2005	02/09/2013
XTO ENERGY INC	4304740524	RBU 30-23E	DRILL	02/10/2009	02/10/2013
XTO ENERGY INC	4304740529	RBU 21-24E	DRILL	02/10/2009	02/10/2013

XTO ENERGY INC	4304740530	RBU 28-23E	DRILL	02/10/2009	02/10/2013
XTO ENERGY INC	4304740531	RBU 23-23E	DRILL	02/10/2009	02/10/2013
XTO ENERGY INC	4304740532	RBU 31-23E	DRILL	02/10/2009	02/10/2013
XTO ENERGY INC	4304740533	RBU 25-23E	DRILL	02/10/2009	02/10/2013
XTO ENERGY INC	4304739050	LCU 15-4H	DRILL	02/12/2007	02/12/2013
XTO ENERGY INC	4304739051	KC 15-31E	DRILL	02/21/2007	02/21/2013
XTO ENERGY INC	4304752053	AP 14-2J	DRILL	02/29/2012	02/28/2013
XTO ENERGY INC	4304752054	AP 16-2J	DRILL	02/29/2012	02/28/2013
XTO ENERGY INC	4304752055	AP 5-2JX	DRILL	02/29/2012	02/28/2013
XTO ENERGY INC	4304752102	LCU 16-36F	DRILL	02/29/2012	02/28/2013
XTO ENERGY INC	4304752103	LCU 2-2H	DRILL	02/29/2012	02/28/2013
XTO ENERGY INC	4304752104	LCU 4-2H	DRILL	02/29/2012	02/28/2013
XTO ENERGY INC	4304752106	LCU 7-36F	DRILL	02/29/2012	02/28/2013
XTO ENERGY INC	4304752108	LCU 2-36F	DRILL	02/29/2012	02/28/2013
XTO ENERGY INC	4304752109	LCU 4-36F	DRILL	02/29/2012	02/28/2013
XTO ENERGY INC	4304739068	KC 7-33E	DRILL	03/05/2007	03/05/2013
XTO ENERGY INC	4304739069	KC 13-33E	DRILL	03/05/2007	03/05/2013
XTO ENERGY INC	4304739070	KC 15-33E	DRILL	03/05/2007	03/05/2013
XTO ENERGY INC	4304737748	RBU 14-16F	DRILL	03/09/2006	03/09/2013

XTO ENERGY INC	4304740588	RBU 22-24E	DRILL	03/11/2009	03/11/2013
XTO ENERGY INC	4304740492	LCU 2-16H	DRILL	03/12/2009	03/12/2013
XTO ENERGY INC	4304740493	LCU 1-16H	DRILL	03/12/2009	03/12/2013
XTO ENERGY INC	4304739158	LCU 15-3H	DRILL	03/28/2007	03/28/2013
XTO ENERGY INC	4304739159	LCU 5-3H	DRILL	03/28/2007	03/28/2013

Rick Redus

Permitting Specialist

XTO Energy Western Division

Wrk: 303-397-3712

Cell: 720-539-1673

From: bradhill@utah.gov [mailto:bradhill@utah.gov]
Sent: Monday, March 04, 2013 1:20 PM
To: Redus, Richard
Subject: Sundry For API Well Number 43047364300000

Notice of Intent: APD_EXTENSION API Number: 43047364300000 Operator: XTO ENERGY INC Approved: 3/4/2013

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Division of Oil, Gas, & Mining
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