

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 AP 12-2J				
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT ALGER PASS				
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-36213			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>				
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 <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input checked="" type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/>				
20. LOCATION OF WELL		FOOTAGES		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN		
LOCATION AT SURFACE		1786 FSL 521 FWL		NWSW	2	11.0 S	19.0 E	S		
Top of Uppermost Producing Zone		1786 FSL 521 FWL		NWSW	2	11.0 S	19.0 E	S		
At Total Depth		1786 FSL 521 FWL		NWSW	2	11.0 S	19.0 E	S		
21. COUNTY UINTAH			22. DISTANCE TO NEAREST LEASE LINE (Feet) 521			23. NUMBER OF ACRES IN DRILLING UNIT 625				
27. ELEVATION - GROUND LEVEL 5468			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 1400			26. PROPOSED DEPTH MD: 9500 TVD: 9500				
28. BOND NUMBER 104312762			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 43-10447							
Hole, Casing, and Cement Information										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
SURF	12.25	8.625	0 - 2200	36.0	J-55 ST&C	8.4	Premium Plus	219	3.82	11.0
							Class G	236	1.18	15.6
PROD	7.875	5.5	0 - 9500	17.0	MAV-80 LT&C	8.6	Premium Plus	90	3.12	11.6
							Premium Plus	1040	1.75	13.0
ATTACHMENTS										
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES										
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN					
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER					
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
NAME Krista Wilson			TITLE Permitting Tech			PHONE 505 333-3647				
SIGNATURE			DATE 09/27/2011			EMAIL krista_wilson@xtoenergy.com				
API NUMBER ASSIGNED 43047520260000					APPROVAL					

DRILLING PLAN

APPROVAL OF OPERATIONS

Attachment for Permit to Drill

Name of Operator: Dominion Exploration & Production
Address: 14000 Quail Springs Parkway, Suite 600
 Oklahoma City, OK 73134
Well Location: AP 12-2J
 1786' FSL & 521' FWL
 Section 2-11S-19E
 Uintah County, UT

1. **GEOLOGIC SURFACE FORMATION** Uintah
2. **ESTIMATED DEPTHS OF IMPORTANT GEOLOGIC MARKERS**

<u>Formation</u>	<u>Depth</u>
Wasatch Tongue	3,765'
Uteland Limestone	4,105'
Wasatch	4,255'
Chapita Wells	5,135'
Uteland Buttes	6,275'
Mesaverde	7,070'

3. **ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS, OR MINERALS**

<u>Formation</u>	<u>Depth</u>	<u>Type</u>
Wasatch Tongue	3,765'	Oil
Uteland Limestone	4,105'	Oil
Wasatch	4,255'	Gas
Chapita Wells	5,135'	Gas
Uteland Buttes	6,275'	Gas
Mesaverde	7,070'	Gas

4. **PROPOSED CASING PROGRAM**

All casing used to drill this well will be new casing.

<u>Type</u>	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Conn.</u>	<u>Top</u>	<u>Bottom</u>	<u>Hole</u>
Surface	8-5/8"	32.0 ppf	J-55	STC	0'	2,000'	12-1/4"
Production	5-1/2"	17.0 ppf	MAV-80	LTC	0'	9,500'	7-7/8"

Note: The drilled depth of the surface hole and the setting depth of the surface casing may vary from 1,700' to 2,000'. Should a lost circulation zone be encountered while drilling, casing will be set approximately 300' below the lost circulation zone. If no lost circulation zone is encountered, casing to be set at 2,000'±.

5. **OPERATOR'S MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL**

Surface hole: No BOPE will be utilized. Air foam mist, rotating head and diverter system will be utilized.
Production hole: Prior to drilling out the surface casing shoe, 3,000 psi or greater BOP equipment will be installed. The pipe rams will be operated at least once per day from surface to total depth. The blind rams will be tested once per day from surface to total depth if operations permit.

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DRILLING PLAN**APPROVAL OF OPERATIONS**

A diagram of the planned BOP equipment for normal drilling operations in this area is attached. As denoted there will be two valves and one check valve on the kill line, two valves on the choke line, and two adjustable chokes on the manifold system. The BOP "stack" will consist of two BOP rams (1 pipe, 1 blind) and one annular type preventer, all rated to a minimum of 3,000 psi working pressure.

The BOP equipment will be pressure tested prior to drilling out surface casing shoe and anytime a new casing string is set. All test pressures will be maintained for fifteen (15) minutes without any significant pressure decrease. Clear water will be circulated into the BOP stack and lines prior to pressure testing. The following test pressures will be used as a minimum for various equipment items.

1.	Annular BOP	1,500 psi
2.	Ram type BOP	3,000 psi
3.	Kill line valves	3,000 psi
4.	Choke line valves and choke manifold valves	3,000 psi
5.	Chokes	3,000 psi
6.	Casing, casinghead & weld	1,500 psi
7.	Upper kelly cock and safety valve	3,000 psi
8.	Dart valve	3,000 psi

6. MUD SYSTEMS

- An air or an air/mist system may be used to drill to the surface hole until water influx becomes too great.
- KCL mud system will be used to drill well.
- The mud system will be monitored manually/visually.

<u>Depth</u>	<u>Mud Weight (ppg)</u>	<u>Mud System</u>
0' - 2,000'	8.4	Air foam mist, rotating head and diverter
2,000' - 9,500'	8.6	Fresh water/2% KCL/KCL mud system

7. BLOOIE LINE

- An automatic igniter will not be installed on blooie line. The blooie will have a constant ignition source.
- A "target tee" connection will be installed on blooie line for 90° change of directions for abrasion resistance.
- "Target tee" connections will be a minimum of 50' from wellhead.
- The blooie line discharge will be a minimum of 80' from the wellhead.

8. AUXILIARY EQUIPMENT TO BE USED

- a. Kelly cock.
- b. Full opening valve with drill pipe connection will be kept on floor. Valve will be used when the kelly is not in string.

9. TESTING, LOGGING, AND CORING PROGRAMS TO BE FOLLOWED

- A drillstem test in the Wasatch Tongue is possible.
- One electric line wire-log will be run from total depth to surface casing.
- The gamma ray will be left on to record from total depth to surface casing.
- Other log curves (resistivities, porosity, and caliper) will record from total depth to surface casing.
- A dipmeter, percussion cores, or rotary cores may be run over selected intervals.

10. ANTICIPATED ABNORMAL PRESSURES OR TEMPERATURES EXPECTED

- Expected BHP 1,500-2,000 psi (lower than normal pressure gradient).
- No abnormal temperature or pressures are anticipated.
- The formations to be penetrated do not contain known H₂S gas.

11. WATER SUPPLY

- No water pipelines will be laid for this well.
- No water well will be drilled for this well.
- Drilling water for this will be hauled on the road(s) shown in Attachment No. 3.
- Water will be hauled from: Water Permit # 43-10447 Section 9, Township 8 South, Range 20 East

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DRILLING PLAN

APPROVAL OF OPERATIONS

12. CEMENT SYSTEMS

a. Surface Cement:

- Drill 12-1/4" hole to 2,000'±, run and cement 8-5/8" to surface (depth to vary based on depth of lost circulation zone).
- Pump 20 bbls lightly weighted water spacer followed by 5 bbls fresh water. Displace with any available water.
- Casing to be run with: a) guide shoe b) insert float c) three (3) centralizers, one on each of first 3 joints d) stop ring for plug one joint off bottom e) bottom three joints thread locked f) pump job with bottom plug only. Casing to be centralized with a total of 8 centralizers.
- Cement the casing annulus to surface. Top out jobs to be performed if needed. Depending to depth of top of cement in the annulus, a 1" tubing string may or may not be utilized.

Type	Sacks	Interval	Density	Yield	Hole Volume	Cement Volume
Lead	219	0'-1,500'	11.0 ppg	3.82 CFS	619 CF	836 CF
Tail	236	1,500'-2,000'	15.6 ppg	1.18 CFS	206 CF	279 CF
Top Out	100	0'-200'	15.6 ppg	1.18 CFS	87 CF	118 CF

Surface design volumes based on 35% excess of gauge hole.

Lead Mix: Halliburton Premium Plus V blend. Blend includes Class "G" cement, gel, salt, gilsonite.
 Slurry yield: 3.82 cf/sack Slurry weight: 11.00 #/gal.
 Water requirement: 22.95 gal/sack

Tail Mix: Class "G" Cement, 1/4 lb/sk Cellophane Flakes + 2% bwoc Calcium Chloride + 44.3% fresh water.
 Slurry yield: 1.18 cf/sack Slurry weight: 15.60 #/gal.
 Water requirement: 5.2 gal/sack

Top Out: Class "G" Cement, 1/4 lb/sk Cellophane Flakes + 2% bwoc Calcium Chloride + 44.3% fresh water.
 Slurry yield: 1.18 cf/sack Slurry weight: 15.60 #/gal.
 Water requirement: 5.2 gal/sack

c. Production Casing Cement:

- Drill 7-7/8" hole to 9,500'±, run and cement 5 1/2".
 - Pump 20 bbl Mud Clean II unweighted spacer, followed by 20 Bbls fresh H2O spacer.
 - Displace with 2% KCL.
- Production casing to be centralized with 30 centralizers.

Type	Sacks	Interval	Density	Yield	Hole Volume	Cement Volume
Lead	90	3,455'-4,255'	11.5 ppg	3.12 CFS	139 CF	277 CF
Tail	1040	4,255'-9,500'	13.0 ppg	1.75 CFS	909 CF	1817 CF

Production design volumes are estimates based on 35% excess of gauge hole. Actual volumes will be calculated from caliper log to bring lead cement to 800' above top of Wasatch + 15% excess, and tail cement to top of Wasatch + 15% excess.

Lead Mix: Halliburton Prem Plus V blend. Blend includes Class "G" cement, gel, salt, gilsonite, EX-1 and HR-7.
 Slurry yield: 3.12 cf/sack Slurry weight: 11.60 #/gal.
 Water requirement: 17.71 gal/sack
 Compressives @ 130°F: 157 psi after 24 hours

Tail Mix: Halliburton HLC blend (Prem Plus V/JB flyash). Blend includes Class "G" cement, KCl, EX-1, Halad 322, & HR-5.
 Slurry yield: 1.75 cf/sack Slurry weight: 13.00 #/gal.
 Water requirement: 9.09 gal/sack
 Compressives @ 165°F: 905 psi after 24 hours

13. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS

Starting Date: September 2, 2007
 Duration: 14 Days

T11S, R19E, S.L.B.&M.

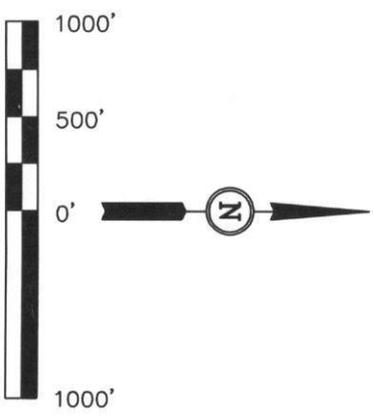
XTO ENERGY, INC.

Well location, AP #12-2J, located as shown in the NW 1/4 SW 1/4 of Section 2, T11S, R19E, S.L.B.&M. Uintah County, Utah.



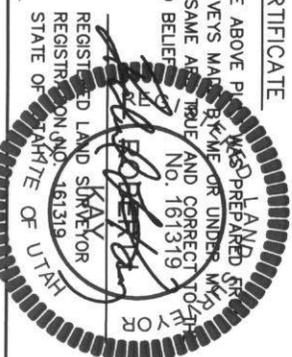
BASIS OF ELEVATION

SPOT ELEVATION AT THE SOUTHWEST CORNER OF SECTION 20, T10S, R19E, 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.



CERTIFICATE

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



REVISED: 06-06-08 L.K.

UTAH ENGINEERING & LAND SURVEYING

85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

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

- (NAD 83) LATITUDE = 39°53'13.40" (39.887056)
- LONGITUDE = 109°45'59.69" (109.766581)
- (NAD 27) LATITUDE = 39°53'13.53" (39.887092)
- LONGITUDE = 109°45'57.19" (109.765886)

LEGEND:

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

SCALE	1" = 1000'	DATE SURVEYED:	5-4-06	DATE DRAWN:	5-5-06
PARTY	J.W. J.K. K.G.	REFERENCES	G.L.O. PLAT		
WEATHER	COOL	FILE	XTO ENERGY, INC		



LEGEND:

- | | |
|-------------------|-------------------------|
| ⊘ DISPOSAL WELLS | ⊙ WATER WELLS |
| ● PRODUCING WELLS | ⊖ ABANDONED WELLS |
| ⊙ SHUT IN WELLS | ⊖ TEMPORARILY ABANDONED |



XTO ENERGY, INC.

AP #12-2J
 SECTION 2, T11S, R19E, S.L.B.&M.
 1786' FSL 521' FWL



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

TOPOGRAPHIC
MAP

05 10 06
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: L.K. REV: 06-06-08 L.K.



SURFACE USE PLAN**Name of Operator:** XTO Energy Inc.**Address:** 382 CR 3100
Aztec, NM 87410**Well Location:** AP 12-2J
1786' FSL & 521' FWL
Section 2, T11S, R19E, SLB&M, Uintah County, Utah

The surface owner or surface owner representative and dirt contractor will be provided with an approved copy of the surface use plan of operations and approved conditions of ~~approve~~ before initiating construction.

1. Existing Roads:

- a. The proposed access route to the location is shown on the USGS quadrangle map (see Exhibit "A").
- b. The proposed well site is located approximately 14.70 miles south west of Ouray, Utah.
- c. Proceed in a westerly direction from Vernal, Utah, along US Highway 40 for approximately 14.0 miles to the junction of State Highway 88, exit left and proceed in a southerly direction for approximately 17.0 miles to Ouray, Utah. 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 for 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 southwesterly direction for 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 for 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 southwesterly direction for 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 for approximately 2.8 miles to the junction of this road and an existing road to the southwest. Proceed in a southwesterly direction for approximately 2.8 miles to the junction of this road and an existing road to the northwest. Turn right and proceed in a northwesterly direction for approximately 2.8 miles to the junction of this road and an existing road to the southwest. Turn left and proceed in a southwesterly, then southeasterly direction for approximately 1.2 miles to the junction of this road and an existing road to the west. Turn right and proceed in a westerly, then southeasterly direction for approximately 2.1 miles to the beginning of the proposed access for the AP 5-2J to south. Follow the road flags in a southerly, then southwesterly direction, approximately 1.6 miles to the beginning of the proposed access to the northwest. Follow the road flags in a northwesterly direction for approximately 440' to the proposed location.
- d. All existing roads within a one (1) mile radius of the proposed well site are shown in Exhibit "B". If necessary, all existing roads that will be used for access to the proposed well location will be maintained to their current condition, or better, unless BLM or 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 Algiers Pass Unit 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 operation.
- g. Vehicle operators will obey posted speed restrictions and observe safe speeds commensurate with road and weather conditions.
- h. Since no improvements are anticipated to the State, County, Tribal or BLM access roads, no topsoil stripping will occur.
- i. An off-lease federal Right-of-Way is not anticipated for the access road and pipeline corridors since both exist and are within the Algiers Pass Unit area.

2. Planned Access Roads:

- a. Location (centerline): Utilizing the existing AP 5-2J access road, an access is proposed trending northwest for approximately 440' to the proposed well site. The access consists 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.
- d. A maximum grade of 10% will be maintained throughout the project with no cuts and this required to access the well.
- e. No turnouts are proposed since adequate site distance exists in all directions.
- f. One possible culvert is anticipated. Adequate drainage structures will be incorporated into the road where appropriate.
- g. No surfacing material will come from SITLA, Federal, or Tribal 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. All access roads and surface disturbing activities will conform to the standards outlined in the Bureau of Land Management and Forest Service Publication: Surface Operating Standards and Guidelines for Oil and Gas Exploration and Development (Gold Book – Fourth Edition – Revised 2007).
- k. The operator will be responsible for all maintenance of the access road including any anticipated drainage structures.
- l. Other: See general information below.

- 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 conditions of approval in the Surface Use Plan of the approved APD, relevant to any Right-of-Way facilities.
- If a Right-of-Way is secured, boundary adjustments in the lease or unit shall automatically amend this Right-of-Way to include that portion of the facility to no longer be contained within the lease or unit. In the event of an automatic amendment to this Right-of-Way grant, the prior on-lease/unit conditions of approval of this facility will not be affected even though they would now apply to facilities outside of the lease/unit as a result of a boundary adjustment. Rental fees, if appropriate shall be recalculated based in the conditions of this grant and the regulations in effect at the time of an automatic amendment.
- If at any time the facilities located on public lands authorized by the terms of this lease are no longer included in the lease (due to a contraction in the unit or lease or unit boundary change) SITLA or the BLM will process a change in authorization to the appropriate statute. The authorization will be subject to appropriate rental or other financial obligations as determined by SITLA or the BLM.
- If the well is productive, the access road will be rehabilitated as needed and brought to Resource (Class 1) Road Standards within a time period specified by SITLA or the BLM. If upgraded, the access road must be maintained at these standards until the well is properly abandoned. If this time frame cannot be met, SITLA Staff or BLM Field Office Manager will be notified so that temporary drainage controls can be installed along the access road.

3. Location of Existing Wells:

- a. All wells within a one (1) mile radius are shown within Exhibit "C".

Location of Existing and or Proposed Production Facilities:

- a. On-site facilities: Typical on-site facilities will consist of a: wellhead, flowlines (typical 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 1 ½ times the storage capacity of the largest tank. 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, above ground tank for produced water. All loading lines and valves for these tanks will be placed inside the berm surrounding the tank battery.

- 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 systems may include methanol injection and winter weather protection.
- All permanent (in place for six (6) months or longer) structures constructed or installed on the well site location will be painted a flat, non-reflective color, matching the ground and not sky, slightly darker than the adjacent landscape, as specified by the COA's in the

approved APD. All facilities will be painted within six (6) months of installation. Facilities required to comply with the Occupations Safety and Health Act (OSHA) may be excluded.

- Site security guidelines identified in 43 CR 3163.7-5 and Onshore Oil and Gas Order No. 3 will be adhered to.

b. Off-Site Facilities: None

c. A gas meter run will be constructed and located on lease within 500 feet of the wellhead. Meter runs will be housed and/or fenced. All gas production and measurement shall comply with the provisions of 43 CFR 3162.7-3, Onshore Oil and Gas Order No. 5, and American Gas Association (AGA) Report No. 3.

d. A tank battery will be constructed on the location; it will be surrounded by a dike of sufficient capacity to contain the storage capacity of the largest tank. All loading lines and valves will be placed inside the berm surrounding the tank battery. All liquid hydrocarbons production and measurement shall conform to the provisions of 43 CFR 3162.7-3 and Onshore Oil and Gas Order No. 4 and Onshore Oil and Gas Order No. 5 for natural gas production and measurement.

e. A gas pipeline is associated with this application and is being applied for at this time. The produced gas pipeline corridor will leave the east side of the well site and traverse approximately 470' east to the proposed AP 5-23 pipeline corridor (see Exhibit "D").

f. The reserve pits will be properly fenced and a bird net installed to prevent any livestock or wildlife entry.

g. All access roads will be maintained as necessary to prevent erosion and accommodate year-round traffic. The road will be maintained in a safe and useable condition.

h. The site will require periodic maintenance to ensure that drainages are kept open and free of debris, ice, and snow, and that surfaces are properly treated to reduce erosion, fugitive dust, and impacts to adjacent areas.

i. The new gas pipeline will be 12" or less steel buried line within a 24' wide utility corridor. The use of the proposed well site and access roads will facilitate the staging of the pipeline construction. A new pipeline length of approximately 470' is associated with this well.

j. XTO Energy Inc. intends on burying the pipeline and will utilize conventional welding technologies.

5. Location and Type of Water Supply:

a. The location and type of water supply:

- Water Well Permit # 43-10447, Sec 9, T8S, R20E.

6. Source of Construction Material:

a. The use of materials will conform with 43 CFR 3610.2-3.

b. No construction materials will be removed from SILTA, Federal or Tribal lands.

c. If any gravel is used, it will be obtained from a state approved gravel pit.

7. Methods of Handling Waste Disposal:

- a. All wastes associated with this application will be contained and disposed of utilizing approved facilities.
- b. Drill cuttings will be contained and buried on site.
- c. The reserve pit will be located outboard of the location and along the south side of the pad.
- d. The reserve pit will be constructed as not to leak, breach, or allow for any discharge.
- e. The reserve pit will be lined with a 20 mil minimum thickness plastic nylon reinforced line material. The liner will overlay a felt liner pad only if rock is encountered during excavation. The pit liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash, scrap pipe, etc. that could puncture the liner will be disposed of in the pit. The pit walls will be sloped no greater than 2:1. A minimum 2-foot of freeboard will be maintained in the pit at all times during the drilling and completion operations.
- f. The reserve pit will be located in cut material. Three sides of the reserve pit will be fenced before drilling starts. The fourth side will be fenced and a bird net installed as soon as drilling is completed, and shall remain until the pit is dry. After the reserve pit has dried, all areas not needed for production will be rehabilitated.
- g. No chemicals subject to 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. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported or disposed of in association with the drilling, testing, or completion of the well.
- h. Trash will 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. The contents of the trash container will be hauled off periodically to the approved Uintah County Landfill near Vernal, Utah.
- i. Produced fluids from the well other than water will be produced into a test tank until such time as the construction of the production facilities is complete. Any spills of oil, gas, salt water, or other produced fluids will be cleaned up and removed.
- j. After initial clean-up, a 400 bbl tank will be installed to contain produced waste water. The water will be transported from the tank to an approved XTO Energy Inc. disposal well for proper disposal.
- k. Produced water from the production well will be disposed of at the RBU 13-11F or RBU 16-19F disposal wells in accordance with Onshore Order No. 7.
- l. Any salts and/or chemicals, which are an integral part of the drilling system, will be disposed of in the same manner as the drilling fluid.

Returned Unapproved

- m. Sanitary facilities will be onsite at all times during operations. Sewage will be placed in a portable chemical toilet and the toilet replaced periodically utilizing a licensed contractor to transport by truck the portable chemical toilet so that its contents can be delivered to the Vernal Wastewater Treatment Facility in accordance with state and county regulations.

8. Ancillary Facilities:

- a. Garbage containers and Portable Toilets are the only ancillary facilities proposed in this application.
- b. No camps, airstrips or staging areas are proposed with this application.

9. Well Site Layout: (See Exhibit "E")

- a. The well will be properly identified in accordance with CFR 3162.6.
- b. Access to the well pad will be from the east.
- c. The pad and road designs are consistent with BLM and SITLA specifications.
- d. A pre-construction meeting with responsible company representatives, contractors, and SITLA will be conducted at the project site prior to commencement of surface disturbing activities. The pad and road will be construction-staked prior to this meeting.
- e. The pad has been staked at its maximum size, however, it will be constructed smaller, if possible, depending on log availability. Should the layout change, this application will be amended and approved utilizing a sundry notice.
- f. 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.
- g. All cut and fill slopes will be such that stability can be maintained for the life of the activity.
- h. Diversion ditches will be constructed and storm water BMP's installed around the well site to prevent surface water from entering the well site.
- i. The site surface will be graded to drain away from the pit to avoid pit spillage during large storm events.
- j. The stockpiled top soil (first 6 inches or maximum available) will be stored in a windrow on the uphill side of the location to prevent any possible contamination. All topsoil will be stockpiled for reclamation in such a way as to prevent soil loss and/or contamination.
- k. Pits will remain fenced until site cleanup.
- l. The blooie line will be located at least 100 feet from the well head.
- m. Water injection may be implemented if necessary to minimize the amount of fugitive dust.

Return to APD for approval
COMPLETED

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

- a. Site reclamation for a producing well will be accomplished for the portions of the site not required for the continued operation of the well.
- b. Upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1. Once the reserve pit is dry, the plastic nylon liner shall be torn and perforated before backfilling the reserve pit. The reserve pit and that portion of the location not needed for production facilities/operations will be re-contoured to the approximate natural contours.
- c. Following the BLM published Best Management Practices and per the signed 2009 Reclamation Plan, the interim reclamation will be completed within 90 days of well completion or 120 days of well spud (weather permitting) to reestablish vegetation, reduce dust and erosion and compliment the visual resources of the area.
 - All equipment and debris will be removed from the area proposed for interim reclamation and the pit area will be back-filled and re-contoured to match the surrounding topography.
 - The area outside the rig anchors and other disturbed areas not needed for the operation of the well will be re-contoured to blend in with the surrounding topography and reseeded, utilizing an approved SITLA seed mix and PLS rate.
 - Reclaimed areas receiving incidental disturbance during the life of the producing well will be re-contoured and reseeded as soon as practical.
- d. The operator will control noxious weeds along access road use authorizations, pipeline route authorizations, well sites, or other applicable facilities (as per 2009 BLM Reclamation Plan) by spraying or mechanical removal.
- e. Prior to final abandonment of the site, all disturbed areas, including access roads, will be scarified and left with a rough, natural looking surface. The site will then be seeded and/or planted as prescribed by SITLA. The SITLA recommended seed mix will be detailed within their approval documents.

11. Surface and Mineral Ownership:

- a. Surface ownership – State of Utah – under the management of the SITLA State Office, 675 East 500 South, Suite 500, Salt Lake City, Utah 84102; 801-538-5100.
- b. Surface ownership – State of Utah – under the management of the SITLA State Office, 675 East 500 South, Suite 500, Salt Lake City, Utah 84102; 801-538-5100.

12. Other Information:

- a. AIA Archeological has conducted a Class III archeological survey. A copy of the report was submitted under separate cover to the appropriate agencies by AIA Archeological with the original APD submittal in 2008.
- b. Alden Hamblin has conducted a paleontological survey. A copy of the report was submitted under separate cover to the appropriate agencies by Alden Hamblin with the original APD submittal in 2008.

- c. No drainage crossings that require additional State or Federal approval are being crossed.
- d. No raptor habitat is known to exist within a 1 mile radius of the proposed well site.

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XTO ENERGY, INC.

AP #12-2J

LOCATED IN UTAH COUNTY, UTAH
SECTION 2, T11S, R19E, S.L.B.&M.

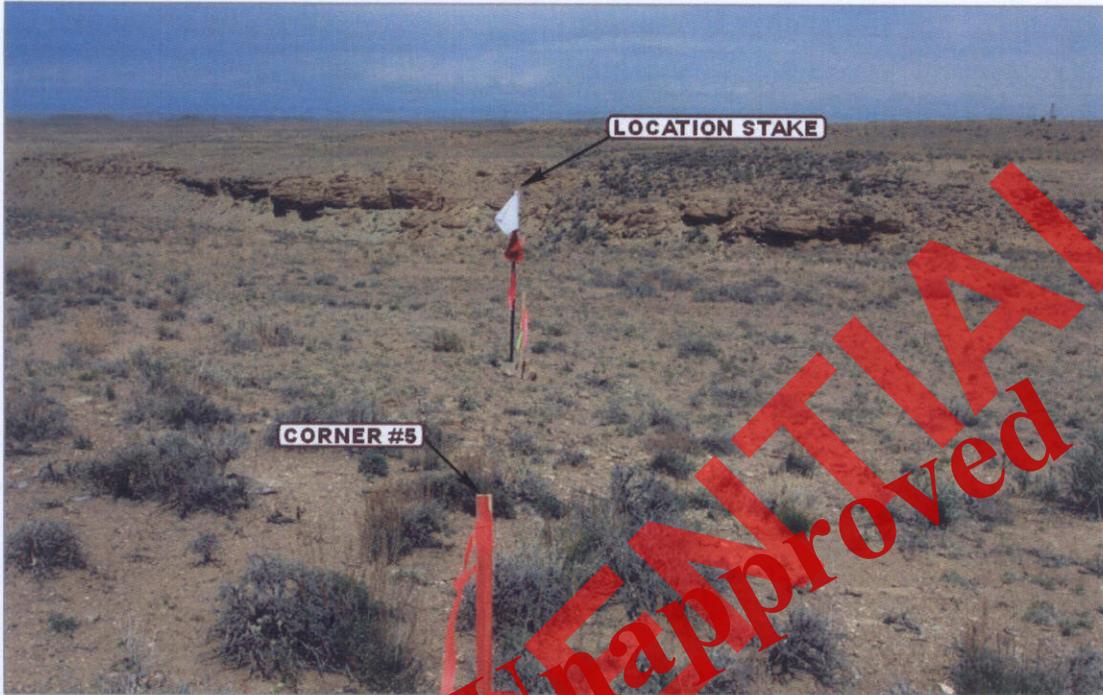


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHEASTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: NORTHWESTERLY



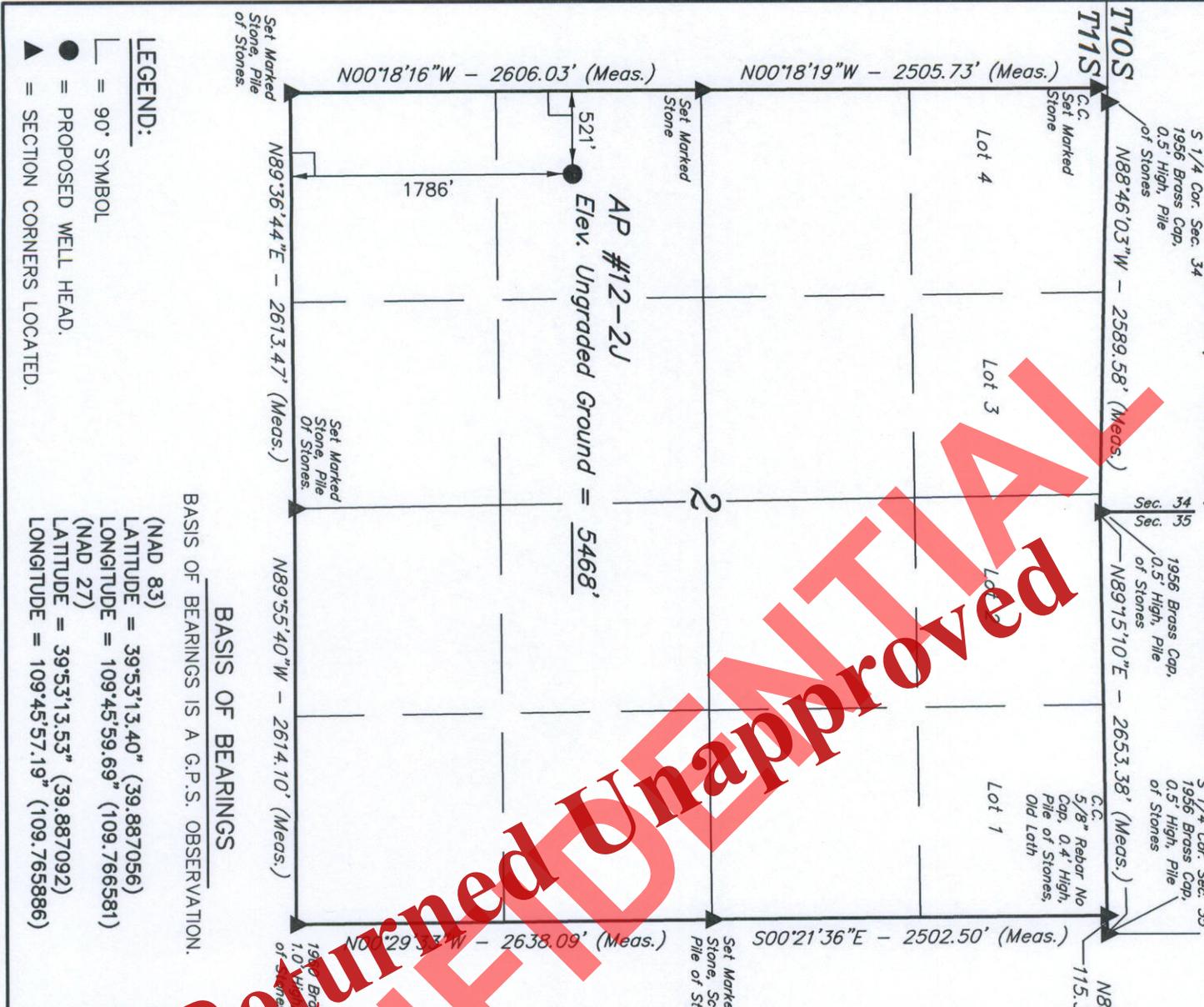
UELS Utah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com

LOCATION PHOTOS			05	10	06	PHOTO
			MONTH	DAY	YEAR	
TAKEN BY: J.W.	DRAWN BY: L.K.	REV: 06-06-08 L.K.				

T11S, R19E, S.L.B.&M.

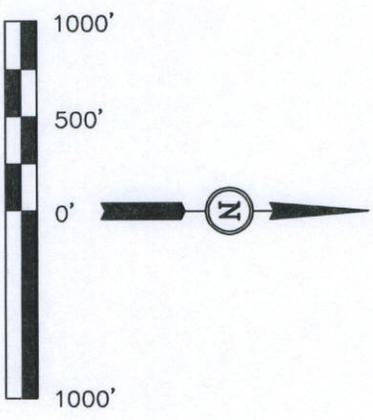
XTO ENERGY, INC.

Well location, AP #12-2J, located as shown in the NW 1/4 SW 1/4 of Section 2, T11S, R19E, S.L.B.&M. Uintah County, Utah.



BASIS OF ELEVATION

SPOT ELEVATION AT THE SOUTHWEST CORNER OF SECTION 20, T10S, R19E, 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.



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.

KAY
REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
200 SOUTH 800 EAST - VERNAL, UTAH 84078
(435) 789-1017

REVISED: 06-06-08 L.K.

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

- (NAD 83) LATITUDE = 39°53'13.40" (39.887056)
- LONGITUDE = 109°45'59.69" (109.766581)
- (NAD 27) LATITUDE = 39°53'13.53" (39.887092)
- LONGITUDE = 109°45'57.19" (109.765886)

LEGEND:

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

SCALE	1" = 1000'	DATE SURVEYED:	5-4-06	DATE DRAWN:	5-5-06
PARTY	J.W. J.K. K.G.	REFERENCES	G.L.O. PLAT		
WEATHER	COOL	FILE	XTO ENERGY, INC		



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LEGEND:

 PROPOSED LOCATION



XTO ENERGY, INC.

AP #12-2J
 SECTION 2, T11S, R19E, S.L.B.&M.
 1786' FSL 521' FWL

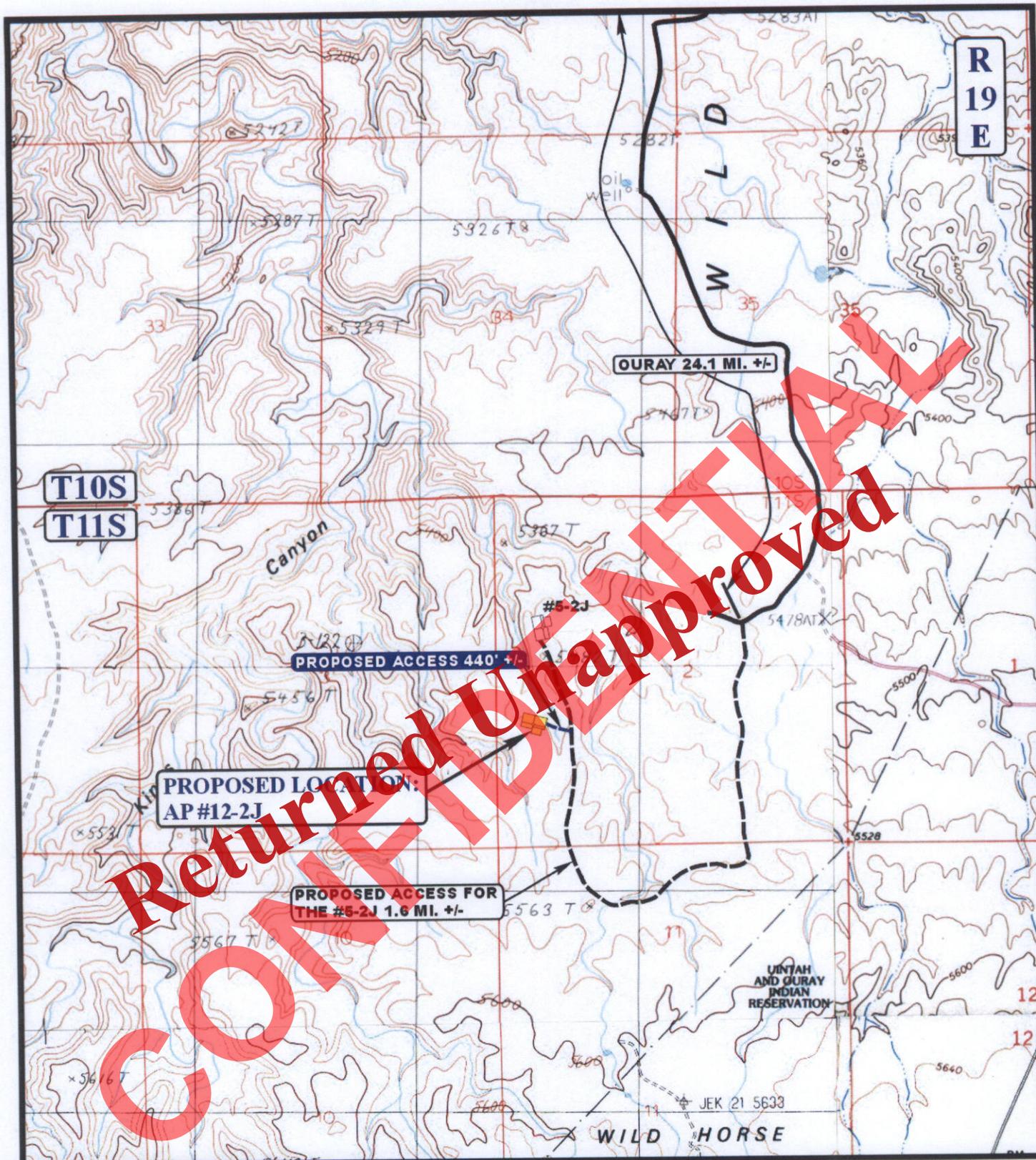


Uintah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
 (435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP 05 10 06
 MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: L.K. REV: 06-06-08 L.K.





LEGEND:

-  EXISTING ROAD
-  PROPOSED ACCESS ROAD



XTO ENERGY, INC.

AP #12-2J
SECTION 2, T11S, R19E, S.L.B.&M.
1786' FSL 521' FWL

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

TOPOGRAPHIC	05	10	06	B
MAP	MONTH	DAY	YEAR	
SCALE: 1" = 2000'	DRAWN BY: L.K.		REV: 06-06-08 L.K.	TOPO



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PROPOSED LOCATION:
AP #12-2J

LEGEND:

- | | |
|-------------------|-------------------------|
| ⊗ DISPOSAL WELLS | ⊕ WATER WELLS |
| ● PRODUCING WELLS | ⊖ ABANDONED WELLS |
| ⦿ SHUT IN WELLS | ⊙ TEMPORARILY ABANDONED |



XTO ENERGY, INC.

AP #12-2J
SECTION 2, T11S, R19E, S.L.B.&M.
1786' FSL 521' FWL

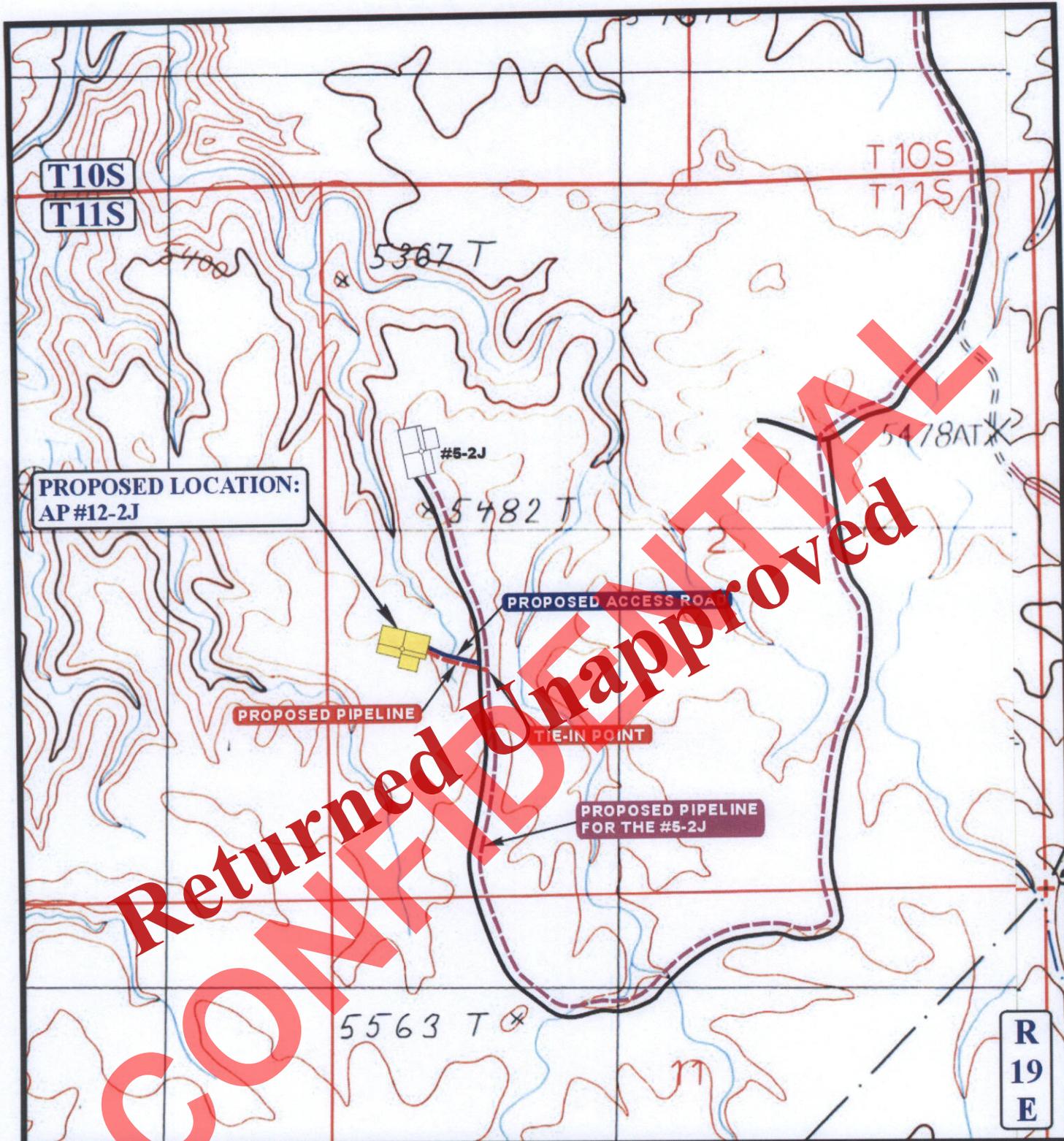


Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP 05 10 06
MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: L.K. REV: 06-06-08 L.K.





**PROPOSED LOCATION:
AP #12-2J**

PROPOSED ACCESS ROAD

PROPOSED PIPELINE

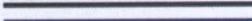
TIE-IN POINT

**PROPOSED PIPELINE
FOR THE #5-2J**

**R
19
E**

APPROXIMATE TOTAL PIPELINE DISTANCE = 470' +/-

LEGEND:

-  PROPOSED ACCESS ROAD
-  EXISTING PIPELINE
-  PROPOSED PIPELINE
-  PROPOSED PIPELINE (SERVICING OTHER WELLS)



XTO ENERGY, INC.

**AP #12-2J
SECTION 2, T11S, R19E, S.L.B.&M.
1786' FSL 521' FWL**

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

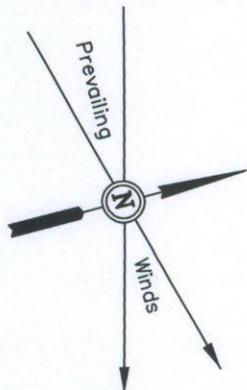
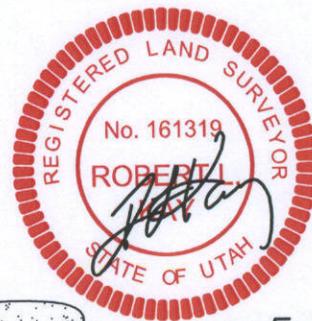
TOPOGRAPHIC MAP **05 10 06**
MONTH DAY YEAR
SCALE: 1" = 2000' DRAWN BY: L.K. REV: 06-06-08 L.K.

D
TOPO

XTO ENERGY, INC.

LOCATION LAYOUT FOR

AP #12-2J
SECTION 2, T11S, R19E, S.L.B.&M.
1786' FSL 521' FWL



SCALE: 1" = 50'
DATE: 5-5-06
Drawn By: K.G.
REVISED: 06-06-08 L.K.

NOTE:

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

Approx. Top of Cut Slope

Reserve Pit Backfill & Spoils Stockpile

Topsoil Stockpile

F-7.0' El. 59.3'

Sta. 3+55

C-3.6' El. 69.9'

Round Corners as Needed

Approx. Toe of Fill Slope

FLARE PIT
C-10.3' El. 76.6'

20' WIDE BENCH

El. 83.1'
C-24.8' (btm. pit)

C-6.3' El. 72.9'
C-2.0' El. 68.3'

F-9.2' El. 57.1'

Sta. 1+80

Total Pit Capacity
W/2' Freeboard
= 10,750 Bbls ±
Total Pit Volume
= 1,120 Cu. Yds.

C-5.4' El. 71.7'

10' WIDE BENCH

RESERVE PITS (8' Deep)

Sta. 0+67

El. 72.9'
C-14.6' (btm. pit)

20' WIDE BENCH

Reserve Pit Backfill & Spoils Stockpile

C-1.5' El. 67.8'

F-2.8' El. 63.5'

Sta. 0+00

F-0.8' El. 65.5'

F-11.5' El. 54.8'

Proposed Access Road

Elev. Ungraded Ground at Location Stake = 5468.3'
Elev. Graded Ground at Location Stake = 5466.3'

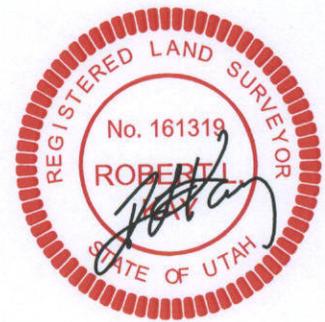
UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

EXHIBIT E

XTO ENERGY, INC.

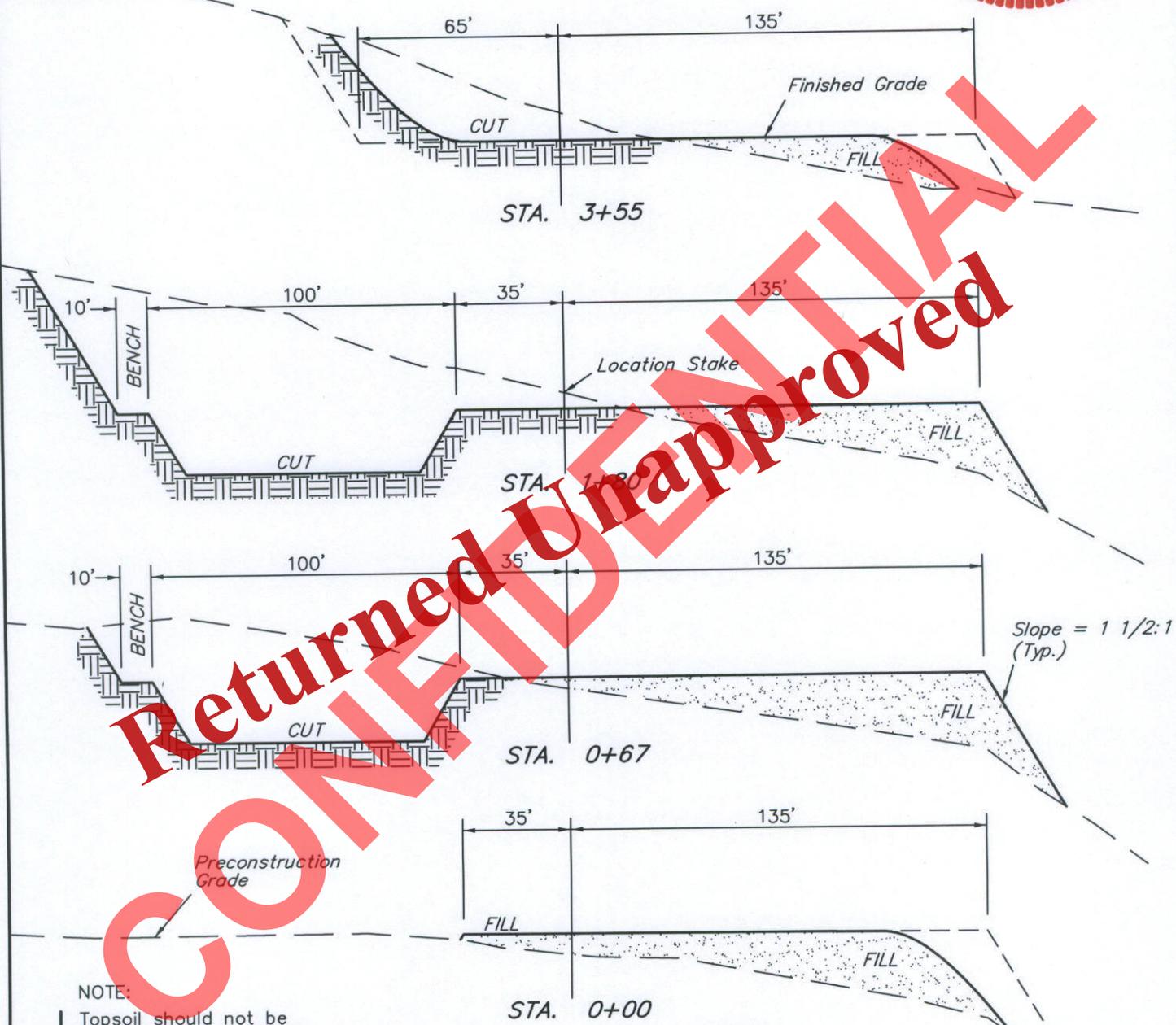
TYPICAL CROSS SECTIONS FOR

AP #12-2J
SECTION 2, T11S, R19E, S.L.B.&M.
1786' FSL 521' FWL



X-Section Scale
 1" = 50'

DATE: 5-5-06
 Drawn By: K.G.
 REVISED: 06-06-08 L.K.



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

*** NOTE:**
 FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

CUT	
(6") Topsoil Stripping	= 2,010 Cu. Yds.
Remaining Location	= 14,810 Cu. Yds.
TOTAL CUT	= 16,820 CU.YDS.
FILL	= 10,200 CU.YDS.

EXCESS MATERIAL	= 6,620 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 3,570 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	= 3,050 Cu. Yds.

Operator Certification:

a. Permitting and Compliance:

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

b. Drilling and Completions:

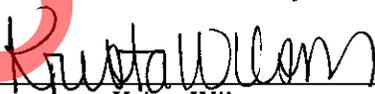
Justin Niederhofer
XTO Energy Inc.
382 CR 3100
Aztec, NM 87410
505-333-3100

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.

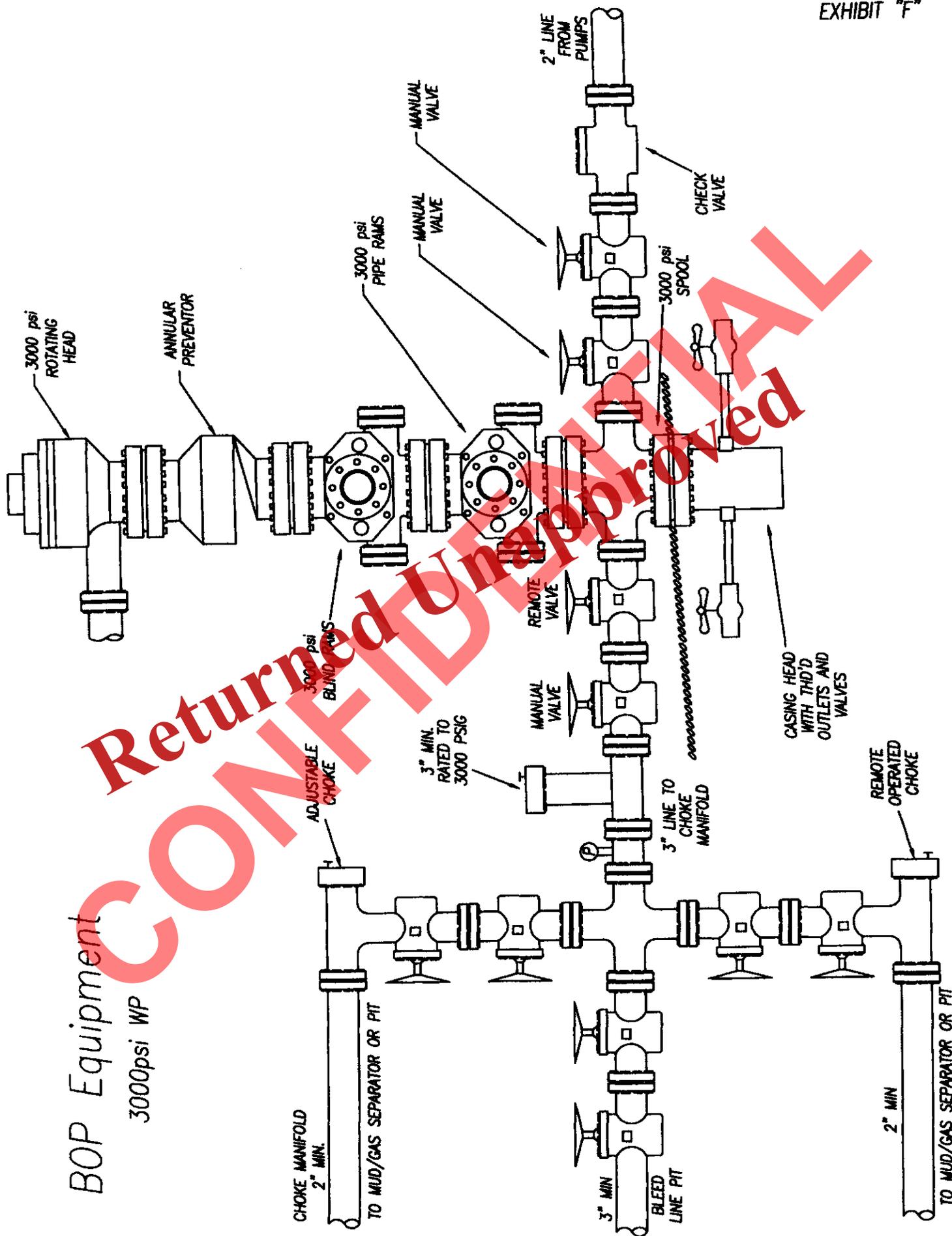
Executed this 27th day of September, 2011.

Signature: _____



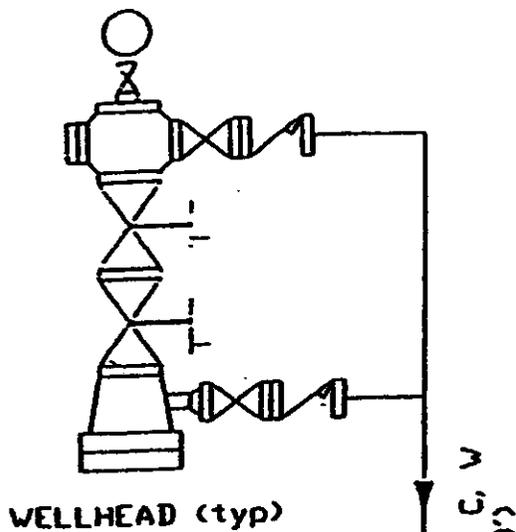
Krista Wilson





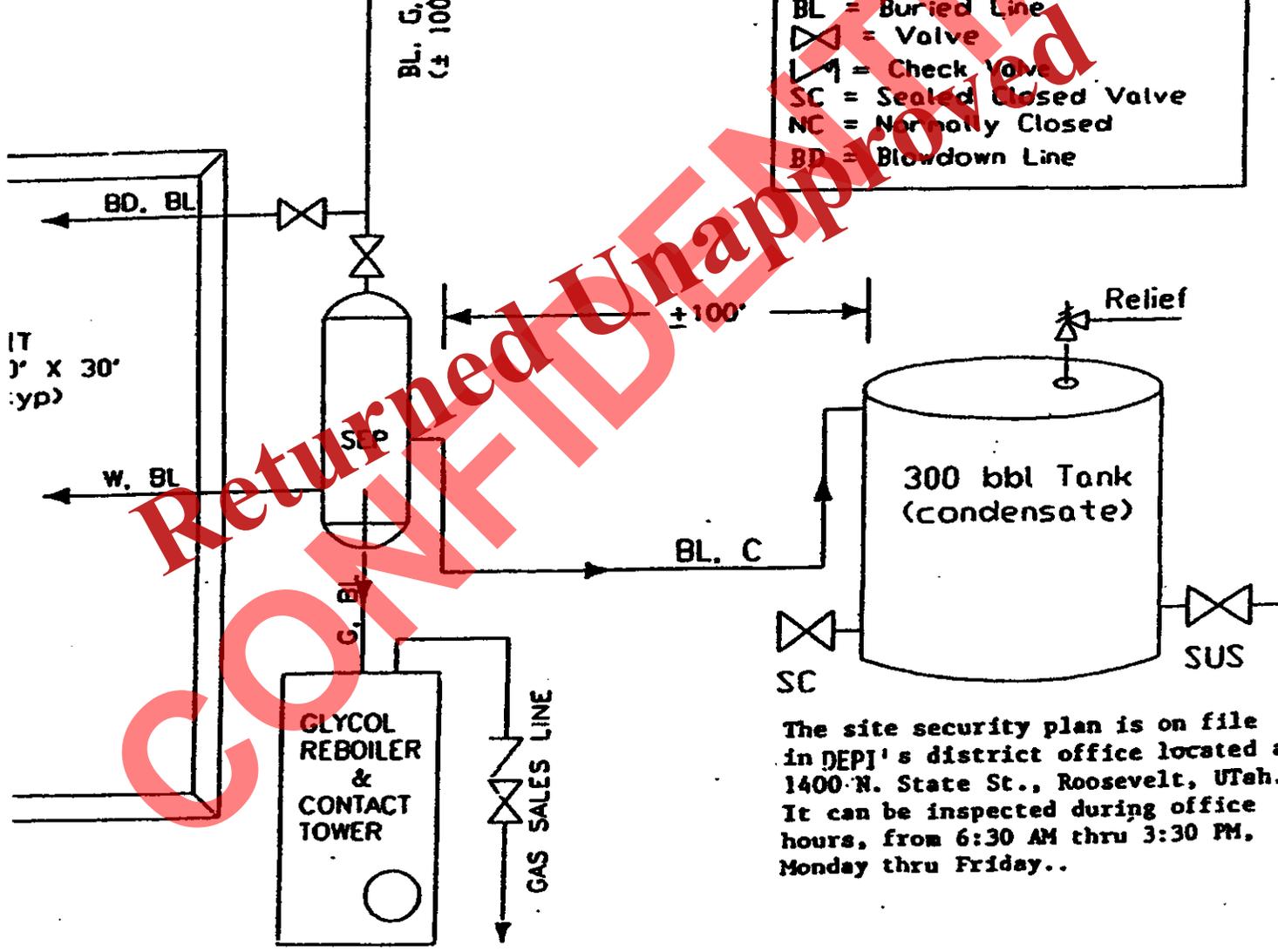
BOP Equipment
3000psi WP

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CONFIDENTIAL



LEGEND

- O = Oil Line
- G = Gas Line
- W = Water Line
- R = Relief Line (Pressure)
- C = Condensate Line
- V = Vent Line
- D = Drain Line
- M = Gas Meter
- P = Pump
- BP = Back Pressure Valve
- SWS = Sealed When Shipping
- SUS = Sealed Unless Shipping
- T = Heat Traced Line
- H = Heater
- BL = Buried Line
- ⊗ = Valve
- ⊗ = Check Valve
- SC = Sealed Closed Valve
- NC = Normally Closed
- BD = Blowdown Line



The site security plan is on file in DEPJ's district office located at 1400 N. State St., Roosevelt, Utah. It can be inspected during office hours, from 6:30 AM thru 3:30 PM, Monday thru Friday..

Operator Certification:

a. Permitting and Compliance:

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

b. Drilling and Completions:

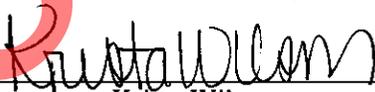
Justin Niederhofer
XTO Energy Inc.
382 CR 3100
Aztec, NM 87410
505-333-3100

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 27th day of September, 2011.

Signature: _____



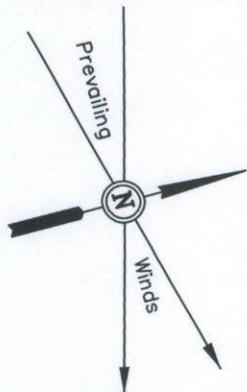
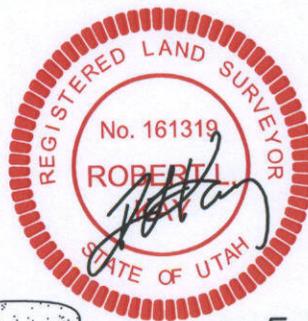
Krista Wilson



XTO ENERGY, INC.

LOCATION LAYOUT FOR

AP #12-2J
SECTION 2, T11S, R19E, S.L.B.&M.
1786' FSL 521' FWL



SCALE: 1" = 50'
DATE: 5-5-06
Drawn By: K.G.
REVISED: 06-06-08 L.K.

NOTE:

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

Approx. Top of Cut Slope

Reserve Pit Backfill & Spoils Stockpile

Topsoil Stockpile

F-7.0' El. 59.3'

Sta. 3+55

C-3.6' El. 69.9'

Round Corners as Needed

Approx. Toe of Fill Slope

FLARE PIT
C-10.3' El. 76.6'

20' WIDE BENCH

El. 83.1'
C-24.8' (btm. pit)

C-6.3' El. 72.9'
C-2.0' El. 68.3'

F-9.2' El. 57.1'

Sta. 1+80

Total Pit Capacity
W/2' Freeboard
= 10,750 Bbls ±
Total Pit Volume
= 1,120 Cu. Yds.

C-5.4' El. 71.7'

10' WIDE BENCH

RESERVE PITS (8' Deep)

Sta. 0+67

El. 72.9'
C-14.6' (btm. pit)

20' WIDE BENCH

Reserve Pit Backfill & Spoils Stockpile

C-1.5' El. 67.8'

F-2.8' El. 63.5'

Sta. 0+00

F-0.8' El. 65.5'

F-11.5' El. 54.8'

Proposed Access Road

Elev. Ungraded Ground at Location Stake = 5468.3'
Elev. Graded Ground at Location Stake = 5466.3'

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

EXHIBIT E

Well Name	XTO ENERGY INC AP 12-2J 43047520260000			
String	SURF	PROD		
Casing Size(")	8.625	5.500		
Setting Depth (TVD)	2200	9500		
Previous Shoe Setting Depth (TVD)	40	2200		
Max Mud Weight (ppg)	8.4	8.6		
BOPE Proposed (psi)	500	3000		
Casing Internal Yield (psi)	4460	7740		
Operators Max Anticipated Pressure (psi)	3000	6.1		

Calculations	SURF String	8.625	"
Max BHP (psi)	.052*Setting Depth*MW=	961	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	697	NO <input type="checkbox"/> air drill <input type="checkbox"/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	477	YES <input type="checkbox"/> OK <input type="checkbox"/>
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	486	NO <input type="checkbox"/>
Required Casing/BOPE Test Pressure=		2200	psi
*Max Pressure Allowed @ Previous Casing Shoe=		40	psi *Assumes 1psi/ft frac gradient

Calculations	PROD String	5.500	"
Max BHP (psi)	.052*Setting Depth*MW=	1248	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	3108	NO <input type="checkbox"/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	2158	YES <input type="checkbox"/> OK <input type="checkbox"/>
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	2642	NO <input type="checkbox"/> Reasonable <input type="checkbox"/>
Required Casing/BOPE Test Pressure=		3000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		2200	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 <input type="checkbox"/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO <input type="checkbox"/>
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO <input type="checkbox"/>
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 <input type="checkbox"/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO <input type="checkbox"/>
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO <input type="checkbox"/>
Required Casing/BOPE Test Pressure=			psi



*Max Pressure Allowed @ Previous Casing Shoe=

psi *Assumes 1psi/ft frac gradient

Returned Unapproved
CONFIDENTIAL

43047520260000 AP 12-2J

Casing Schematic

✓ Step surf. cont.

8-5/8"
MW 8.4
Frac 19.3

5-1/2"
MW 8.6

Surface

16 3/4
15 3/4

TOC @
552.

Uenta
to 0' @ 5 1/2 w/p, tail 1639'
*Step ✓

TOC @
1398.

to surf @ 6 1/2 w/p, tail 1037'
1788' tail

Surface
2200. MD

2481' tail

2775' Wasatch Tongue
2775' ± BMSW
2705' Ufeland Limestone
24255' Wasatch

5135' Chapita Wells

6275' Ufeland Buttes

7070' Mesaverde

Production
9500. MD

Returned Unapproved
CONFIDENTIAL

Well name:	43047520260000 AP 12-2J	
Operator:	XTO ENERGY INC	Project ID:
String type:	Surface	43-047-52026
Location:	UINTAH COUNTY	

Design parameters:

Collapse

Mud weight: 8.400 ppg
 Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 1,936 psi
 Internal gradient: 0.120 psi/ft
 Calculated BHP: 2,200 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: 1,924 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: 552 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 9,500 ft
 Next mud weight: 8.600 ppg
 Next setting BHP: 4,244 psi
 Fracture mud wt: 19.250 ppg
 Fracture depth: 2,200 ft
 Injection pressure: 2,200 psi

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	2200	8.625	36.00	J-55	ST&C	2200	2200	7.7	17670
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	960	3450	3.594	2200	4460	2.03	79.2	434	5.48 J

Prepared by: Helen Sadik-Macdonald
 Div of Oil, Gas & Mining

Phone: 801 538-5357
 FAX: 801-359-3940

Date: December 27, 2011
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 2200 ft, a mud weight of 8.4 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.

Well name:	43047520260000 AP 12-2J	
Operator:	XTO ENERGY INC	Project ID:
String type:	Production	43-047-52026
Location:	UINTAH COUNTY	

Design parameters:

Collapse

Mud weight: 8.600 ppg
 Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
 Surface temperature: 74 °F
 Bottom hole temperature: 207 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 100 ft
 Cement top: 1,398 ft

Burst

Max anticipated surface pressure: 2,154 psi
 Internal gradient: 0.220 psi/ft
 Calculated BHP 4,244 psi

No backup mud specified.

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)

Non-directional string.

Tension is based on air weight.
 Neutral point: 8,261 ft

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	9500	5.5	17.00	Max-80	LT&C	9500	9500	4.767	78374
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	4244	6290	1.482	4244	7740	1.82	161.5	272.9	1.69 B

Prepared by: Helen Sadik-Macdonald
 Div of Oil, Gas & Mining

Phone: 801 538-5357
 FAX: 801-359-3940

Date: December 27, 2011
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 9500 ft, a mud weight of 8.6 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.



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

August 09, 2012

XTO ENERGY INC
382 Road 3100
Aztec, NM 87410

Re: Application for Permit to Drill - UINTAH County, Utah

Ladies and Gentlemen:

The Application for Permit to Drill (APD) for the AP 12-2J well, API 43047520260000 that was submitted September 27, 2011 is being returned unapproved. If you plan on drilling this well in the future, you must first submit a new application.

Should you have any questions regarding this matter, please call me at (801) 538-5312.

Sincerely,

Diana Mason
Environmental Scientist

Enclosure

cc: Bureau of Land Management, Vernal, Utah