

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

002

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No. <b>UTU-34705</b>	
6. If Indian, Allottee or Tribe Name <b>na</b>	
7. If Unit or CA Agreement, Name and No. <b>na (proposed Big Pack Unit)</b>	
8. Lease Name and Well No. <b>Big Pack Unit #31-34</b>	
9. API Well No.	
10. Field and Pool, or Exploratory <b>Unnamed</b>	
11. Sec., T. R. M. or Blk. and Survey or Area <b>Section 34, T11S-R20E, S.L.B. &amp;M.</b>	
12. County or Parish <b>Uintah</b>	13. State <b>Ut</b>
14. Distance in miles and direction from nearest town or post office* <b>22.3 miles to Ouray, Utah</b>	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) <b>3312'</b>	16. No. of acres in lease <b>2,480</b>
17. Spacing Unit dedicated to this well <b>40</b>	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. <b>3326'</b>	19. Proposed Depth <b>9,100'</b>
20. BLM/BIA Bond No. on file <b>UTB000160</b>	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) <b>5770' graded ground level</b>	22. Approximate date work will start* <b>06/15/2005</b>
23. Estimated duration <b>8 days</b>	

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

- |   |  |
|---|--|
| 1. Well plat certified by a registered surveyor.  | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).    |
| 2. A Drilling Plan.   | 5. Operator certification  |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature 	Name (Printed/Typed) <b>Todd S. McDonald</b>	Date <b>03/31/2005</b>
Title <b>Vice President</b>		

Approved by (Signature)	Name (Printed/Typed)	Date
Title	Office	

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on page 2)

**EIGHT POINT DRILLING PLAN**  
**Attached to Form 3160-3: Application for Permit to Drill**  
**Mak-J Energy Operating Company, LLC**  
**Big Pack Unit #31-34**  
**Federal Lease Number UTU-34705**  
**632' FNL & 1972' FEL, Sec 34, T11S- R20E, SLB&M**  
**Uintah County, Utah**

**1. ESTIMATED TOPS - IMPORTANT GEOLOGIC MARKERS**

Uinta	0'
Green River	380'
Wasatch	3562'
Mesaverde	6285'
Neslen	7639'
Sego	8414'
Castlegate	8616'
Mancos	8916'
Total Depth	9100'

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

Water:           Green River: occasional sands from 380' to 3562'  
                  Wasatch:    occasional sands from 3562' to 6285'  
                  Mesaverde: occasional sands from 6285' to 8414'

Oil:               no oil is anticipated during the drilling of this well

Gas:              Wasatch:    occasional sands from 3562' to 6285'  
                  Mesaverde: occasional sands from 6285' to 7639'  
                  Neslen:     occasional sands and coals from 7639' to 8414'  
                  Sego:       occasional sands from 8414' to 8616'  
                  Castlegate occasional sands from 8616' to 8916'  
                  Mancos     occasional sands from 8916' to 9100'

**3. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL**

- a. A diagram of the Blowout Preventer Stack and Choke Manifold is presented in Exhibit #1 and #1A.
- b. A 3M (3,000 psi minimum Working Pressure) system will be required for this operation and will consist of:
  - i. The Blow-Out Preventer Stack Description and Specifications:
    - An 8-5/8" x 11" SOW 3,000 psi WP casing head will be installed as the starting head.
    - An 11" 3,000 psi x 11" 3,000 psi WP drilling spool will be installed on the starting head.

**EIGHT POINT DRILLING PLAN**  
**Attached to Form 3160-3: Application for Permit to Drill**  
**Mak-J Energy Operating Company, LLC**  
**Big Pack Unit #31-34**  
**Federal Lease Number UTU-34705**  
**632' FNL & 1972' FEL, Sec 34, T11S- R20E, SLB&M**  
**Uintah County, Utah**

- An 11" x 3,000 psi WP (min) double gate hydraulic type ram preventer with pipe rams over blind rams will be installed above the drilling spool.
  - An 11" x 3,000 psi (WP) annular preventer will be installed on top of the double gate preventer.
  - An 11" rotating head may be installed above an annular preventer.
- ii. The Choke and Kill Manifolds:
- A 2" x 3,000 psi (min) kill line and a 3" x 3,000 psi (min) choke line will be tied into opposite sides of the 11" x 3,000 psi WP (min) drilling spool.
  - Two 3" x 3,000 psi (min) WP FO gate valves will be up-stream of the choke manifold assembly. These valves will be in the open position during normal drilling operations.
  - The choke manifold will consist of both 2" & 3" x 3,000 psi (min) WP pipe (see Exhibit 1). The 3" pipe will be the bleed line to the flare pit. There will be 2 - 2" lines, both directed to the mud gas separator or pit. There will be 2 - 2" x 3,000 psi (min) WP FO adjustable chokes downstream of 2 - 2" x 3000 psi (min) WP FO valves on the 2" lines. These valves will be closed during normal mud drilling operations. A single 3" x 3,000 psi (min) WP FO gate valve will be between the flow tee and the 3"(min) bleed line. This valve will be closed during normal mud drilling operations. In-board of the gate valves in the manifold assembly there will be a 3" x 3,000 (min) psi WP flow tee with bull plug, needle valve, and gauge for well control operations.
  - The bleed line will be appropriately staked and chained down to the flare pit.
  - The 2" kill line will consist of 2 valves (3,000 psi min) one of which will be a check valve.
- iii. Surface Drill String Valves:
- A 3,000 psi WP (min) FO safety valve with subs to fit all drill strings in use will be kept on the drill floor after surface casing is set.
  - A 3,000 psi (min) WP Upper kelly valve with handle will be used throughout drilling operations.
- iii. The Accumulator System:
- The 3M system accumulator shall have sufficient capacity to close all BOP equipment and retain a minimum of 200 psi above the pre-charge pressure on the closing manifold without the use of the closing pumps. A nitrogen bottle system may be used to provide independent (reserve) power to operate the system in the event rig motors must be shut

**EIGHT POINT DRILLING PLAN**  
**Attached to Form 3160-3: Application for Permit to Drill**  
**Mak-J Energy Operating Company, LLC**  
**Big Pack Unit #31-34**  
**Federal Lease Number UTU-34705**  
**632' FNL & 1972' FEL, Sec 34, T11S- R20E, SLB&M**  
**Uintah County, Utah**

down.

c. Testing Procedures and Test Frequency:

- All of the pressure side BOP Equipment specified in Part b. above will be nipped-up on the surface casing. A test plug will then be set in the starting head profile.
- All ram type preventers and associated equipment will be hydraulically tested for ten (10) minutes (min) to 3000 psi and five (5) minutes (min) to 300 psi prior to drilling out cement. The annular preventer shall be tested to 1500 psi (50% of rated working pressure). Surface casing will be pressure tested to 1500 psi before drilling out the surface casing shoe. These components will be re-tested every 30 days, whenever any seal subject to test pressure is broken, and following any related repairs.
- Pipe rams will be operationally checked each 24-hour period and the blind rams operationally checked each time pipe is pulled from the hole.
- All pressure tests and function tests will be noted on the daily drilling report.

d. Tripping procedures for well control:

- The maximum bottom-hole pressure is 3860 psi in the Mancos. Anticipated mud weight at total depth is 9.5 ppg. At Mancos depth this will provide an anticipated hydrostatic pressure of 4405 psi for an over-balance pressure of +/-545 psi.
- The well will be drilled by a triple, double, or lay-down singles derrick rig with 4-1/2" drill pipe and 6" (minimum) drill collars.
- The well will be monitored each 9-10 joints on trips out of the hole to insure that the BHA is not swabbing the well in. The well will be filled after each 30 joints of drill pipe and as each drill collar is pulled from the hole. Pits will be monitored in order to insure that the well is taking fluid on the trip.
- The fill-up line will be used to fill the well on trips. The kill line **WILL NOT** be used to fill the well on trips.
- **In the event that the bit is plugged on a trip the well will be filled after each 15 joints of drill pipe are pulled from the well and as each drill collar is pulled from the well. Swabbing will be checked each 6 joints.**

**EIGHT POINT DRILLING PLAN**  
**Attached to Form 3160-3: Application for Permit to Drill**  
**Mak-J Energy Operating Company, LLC**  
**Big Pack Unit #31-34**  
**Federal Lease Number UTU-34705**  
**632' FNL & 1972' FEL, Sec 34, T11S- R20E, SLB&M**  
**Uintah County, Utah**

**4. CASING AND CEMENTING PROGRAM**

a. General Casing and Cementing Design Specifications:

Hole Size (in.)	Depth (feet)	Casing OD (inches)	Wt/Gd/Jt/Cond	Cement
12 1/4"	2200'	9 5/8"	36#/ft, J55, ST&C, new	Lead: 200 sxs 65/35 Pozmix containing 16% gel, 10#/sx gilsonite, and 0.25#/sx flocele, 3.0 #/GR-3, 3% salt BWOC. Weight = 11.0 ppg, yield = 3.82 cu.ft./sx  Tail: 300 sxs Class 'G' containing 2% CaCl and 0.25#/sx flocele. Weight = 15.8 ppg, yield = 1.15 cu.ft./sx
7 7/8"	9100'	4 1/2"	11.6#/ft, N80, LT&C, new	Lead: 200 sxs Hi-Fill 'V' containing 16% gel, 0.6% EX-1, 3% salt, 1% HR-7, 0.25#/sx flocele, and 10#/sx gilsonite. Weight = 11.6 ppg, yield= 3.12 cu.ft./sx  Tail: 1180 sxs 50/50 Pozmix containing 2% gel, 0.6% Halad-322, 2% Microbond, 0.25#/sx flocele and 5% salt. Weight = 14.36 ppg, yield = 1.25 cu.ft./sx

- NOTE: A full attempt will be made to lift cement at least 200' into the surface casing shoe. A mud log from the base of the surface casing to T.D. is planned and a Formation Density / Compensated Neutron / Caliper log will be run from T.D. to the base of surface casing to confirm volumes prior to cementing.

b. Casing Centralization Equipment:

i. Surface Casing:

- A total of 28 centralizers will be run on the 9-5/8" OD Surface Casing: 1 each on the bottom 3 joints of the casing and 1 on every other collar to surface.

**EIGHT POINT DRILLING PLAN**  
**Attached to Form 3160-3: Application for Permit to Drill**  
**Mak-J Energy Operating Company, LLC**  
**Big Pack Unit #31-34**  
**Federal Lease Number UTU-34705**  
**632' FNL & 1972' FEL, Sec 34, T11S- R20E, SLB&M**  
**Uintah County, Utah**

- ii. Production Casing:
  - Placement of centralizers will be determined after review of the open hole logs.

**5. PROPOSED DRILLING FLUIDS**

DEPTH	TYPE	MUD WT., LB/GAL	VISCOSITY	WATER LOSS
0' – 2200' (Min)	Fresh water gel	NA	NA	No Control
2200' – 4000'	Fresh, LSND	8.4 – 8.8	32 – 36 Sec/Qt	10 – 18
4000' – TD	Fresh, LSND	8.8 – 9.5	36 – 40 Sec/Qt	10 – 16

**6. LOGGING, TESTING, AND CORING PROGRAM**

- a. The logging program will consist of:
  - i. AIT/GR/SP:  
T.D. to surface casing
  - ii. FDC – CNL w/ GR & Caliper:  
T.D. to surface casing
- b. No cores are planned.
- c. No DST's are planned.
- d. A manned mud logging unit with a hotwire and chromatograph is planned from the base of the surface casing to TD. 30 ft samples will be obtained from the base of the surface casing to TD or at geologist's discretion.

**7. ABNORMAL CONDITIONS - PRESSURE - TEMPERATURE - POTENTIAL HAZARDS**

Normal pressures and temperatures are expected in the objective formation. A maximum surface shut-in pressure based upon a maximum bottom-hole pressure of 3,860 psi in the Mancos, assuming a partially

**EIGHT POINT DRILLING PLAN**  
**Attached to Form 3160-3: Application for Permit to Drill**  
**Mak-J Energy Operating Company, LLC**  
**Big Pack Unit #31-34**  
**Federal Lease Number UTU-34705**  
**632' FNL & 1972' FEL, Sec 34, T11S- R20E, SLB&M**  
**Uintah County, Utah**

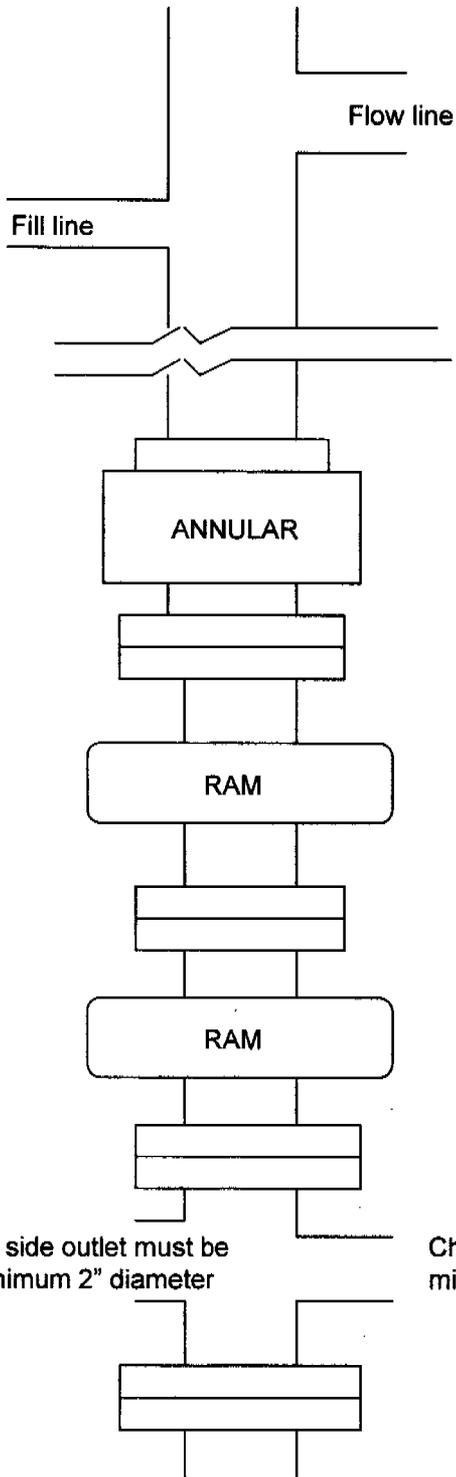
evacuated hole with a pressure gradient of 0.22 psi/ft, is 1900 psi. A maximum bottom hole temperature of 195 degrees Fahrenheit is anticipated. Sour gas (H<sub>2</sub>S) is not anticipated.

**8. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS**

Road and location construction will begin as soon as APD approval has been granted by the BLM. The anticipated spud date for this well is currently June 15, 2005 subject to rig availability and permit approval. A spud rig may be moved in prior to the drilling rig to set surface casing. Once surface casing has been set drilling operations should be finished within 7 to 10 days. Side-tracking operations, if required, will considerably extend the period of operations. Appropriate verbal notification of side-tracking operations shall immediately be made if such operations are required, plug-back procedures confirmed, and appropriate Sundry Notices filed as soon as possible. If the subject well is deemed to be capable of production an additional 10 to 15 days will be required for completion.

### 3M BLOWOUT PREVENTION STACK

Big Pack Unit #31-34  
Federal Lease #UTU-34705  
632' FNL & 1972' FEL  
Section 34, T11S-R20E  
Uintah County, Utah



Upper kelly cock will have handle available.  
Safety valve and subs will fit all drill string connections in use  
All BOPE connections subjected to well pressure will be flanged, welded, or clamped

Kill side outlet must be minimum 2" diameter

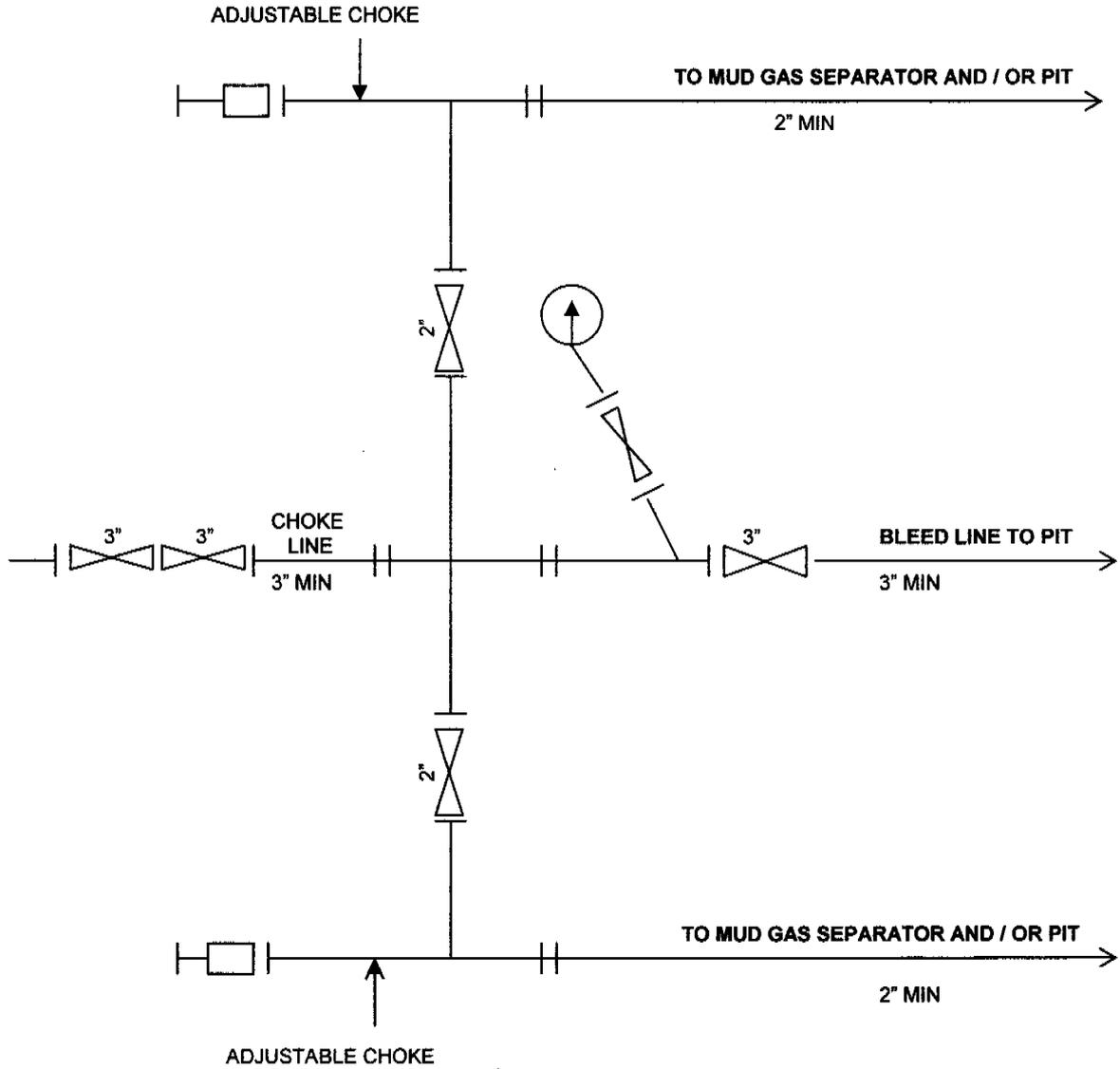
Choke side outlet must be minimum 3" diameter

Kill line will be minimum 2" diameter and have 2 valves, one of which shall be a minimum 2" check valve

### EXHIBIT #1

**3M Choke Manifold Equipment**  
(Configuration of chokes may vary)

**EXHIBIT #1A**



Upper kelly cock will have handle available.  
Safety valve and subs will fit all drill string connections in use  
All BOPE connections subjected to well pressure will be flanged, welded, or clamped

Big Pack Unit #31-34  
Federal Lease #UTU-34705  
632' FNL & 1972' FEL  
Section 34, T11S-R20E  
Uintah County, Utah



**SURFACE USE AND OPERATING – 13 POINT PLAN**  
**Attached to Form 3160-3**  
**Mak-J Energy Operating Company, LLC.**  
**Big Pack Unit #31-34**  
**Federal Lease Number UTU-34705**  
**632' FNL & 1972' FEL**  
**Section 34, T11S-R20E, SLB&M**  
**Uintah County, Utah**

**1. EXISTING ROADS**

- A. The proposed well site digital photographs, elevation/survey plat, location layout, cross section, and topographic maps ('A' Topo and 'B' Topo) are attached.
- B. To reach the well site proceed from Ouray, Utah 9.1 miles south on Seep Ridge Road. Turn right (west) on Turkey Track Road (County Road #5110) and travel +/- 2.8 miles to Willow Creek Road (County Road #5120). Turn left (south) on County Road #5120 and travel 4.6 miles to County Road #5230, Big Pack Mountain Loop Road. Turn right (west) onto this existing County road and travel +/- 1.6 miles to an existing oil and gas well located in the senesw, Section 10, T11S-R20E . Turn left (south) and continue on County Road #5230 for 4.2 miles to the proposed new access road. The newly proposed access is approximately 0.1 miles in length as proposed on 'B' Topo.
- C. The new access road is color coded and labeled as shown on 'B' Topo.
- D. Existing highways and roads in the area are under the jurisdiction of the BLM or Uintah County.

**2. PLANNED ACCESS ROADS**

- A. The proposed access road will depart from Big Pack Mountain Loop Road in an easterly direction for +/- 0.1 miles (See 'B' Topo). The access road is located entirely on Federal Lease #UTU-34705.
- B. The access road will be crown and ditch construction. The general access road width will have a 15' traveling surface. A maximum disturbance width of 30' is requested (i.e., road right-of-way = 30 feet). The route for this road was chosen to minimize surface disturbance in providing access to the location. There will be no drainage ditches built.
- C. The access road grade will average 0 to 5%.
- D. No turnouts are planned except at the access road entrance into the location.
- E. Water bars will be placed if appropriate. None are anticipated. **A low water crossing will be required across the major wash that is encountered immediately after exiting County Road #5230 and onto the proposed access.**
- F. No culverts, bridges, or major cuts and fills are anticipated.

**SURFACE USE AND OPERATING – 13 POINT PLAN**  
**Attached to Form 3160-3**  
**Mak-J Energy Operating Company, LLC.**  
**Big Pack Unit #31-34**  
**Federal Lease Number UTU-34705**  
**632' FNL & 1972' FEL**  
**Section 34, T11S-R20E, SLB&M**  
**Uintah County, Utah**

- G. Surfacing materials will consist of native surface soil, native alluvium where present, and 3/4" road-base crush from a commercial gravel pit if gravel is required due to drilling, completion, or production operations.
- H. Based upon the field inspection conducted on March 16, 2005 no cattle guards are anticipated at this time.
- I. No additional road ROW's will be required.

3. **LOCATION OF EXISTING WELLS**

For the location of existing wells within a one-mile radius of the subject well, see Exhibit 'C'. The wells indicated on Exhibit 'C' are all that Mak-J Energy is aware of at this time.

- A. There are No domestic water wells within a one mile radius.
- B. There are No abandoned wells within a one mile radius.
- C. There are No temporarily abandoned wells within a one mile radius.
- D. There are No known disposal wells within a one mile radius.
- E. There are No drilling wells within a one mile radius.
- F. There are No producing wells within a one mile radius.
- G. There is 1 known shut-in well within a one mile radius.
- H. There are No known injection wells within a one mile radius.

4. **LOCATION OF EXISTING OR PROPOSED FACILITIES IF WELL IS PRODUCTIVE**

- A. If the well is productive, contemplated facilities will be as follows:
  - (1) Where practicable the tank battery will be located on solid ground of the cut area of the drill pad. All Mak-J Energy facilities will be contained on the planned well pad.
  - (2) Refer to Figure #3 for the proposed production facility schematic.

**SURFACE USE AND OPERATING – 13 POINT PLAN**  
**Attached to Form 3160-3**  
**Mak-J Energy Operating Company, LLC.**  
**Big Pack Unit #31-34**  
**Federal Lease Number UTU-34705**  
**632' FNL & 1972' FEL**  
**Section 34, T11S-R20E, SLB&M**  
**Uintah County, Utah**

- (3) Dependent upon flow test results, a heated gas separator, multiple 400 bbl tanks, and a meter house will be required. All well pad flow lines and piping will be buried and installed according to API specifications. Construction materials will consist of excavated alluvium, shale, and soils (except top soils). Use of additional materials from outside sources is not anticipated at this time (with the exception of 3/4" crushed road-base gravel from a commercial pit). All facilities will be painted Carlsbad Cavern as agreed to during the on-site inspection on 3/16/2005.
- (4) No surface pits are planned at this time.

**B. Off well pad:**

- (1) On February 24, 2005 Mak-J Energy Operating Company filed an Area in Depth with the Bureau of Land Management, Salt Lake City requesting permission to form the Big Pack Unit. In general, the Big Pack Unit outline encompasses lands in the south half of Township 11 South-Range 20 East and the north half of Township 12 South-Range 20 East. It has been proposed that there will be two unit obligation wells, the Big Pack Unit #31-34 and the Big Pack Unit #32-22. In anticipation of the Big Pack Unit being approved Mak-J Operating Company proposes to install a bare 4" gas sales line extending west from the subject well a distance of approximately 0.1 miles where it would intersect the Big Pack Mountain Loop Road (County Road #5230). The 4" sales line has been centerline staked, will be buried, and will be located directly adjacent to the access road. At no point will the 4" pipeline fall outside of the requested 30' road right-of-way. From the intersection of County Road #5230 an 8" sales pipeline will be laid extending north into Section 22, T11S-R20E (see Exhibit 'D'). The recommended 8" line will tie into another 8" pipeline that has been proposed and made part of the Application for Permit to Drill the Big Pack Unit #32-22 ("the second obligation well"). The 8" line extending from the #31-34 well to the #32-22 well will also be center lined staked, buried and will run adjacent to the county road. At no point will the 8" pipeline fall outside of the existing county road Right-Of-Way width. Exhibit 'E' shows the general layout of the proposed 8" pipeline within the Big Pack Unit boundary and the associated potential well connects. The gathering system will be owned and operated by Mak-J Energy Operating Co. LLC or by a third party yet to be determined. Archaeological surveys have been completed for the aforementioned pipeline route and are attached to this permit. Construction will be contingent upon well-test results and permit approval / clearance by the BLM. The pipeline route (both 4" and 8") will remain entirely on lease or within the Unit boundaries and will not require a separate right-of-way.
- (2) No additional facilities are planned at this time.

**SURFACE USE AND OPERATING – 13 POINT PLAN**  
**Attached to Form 3160-3**  
**Mak-J Energy Operating Company, LLC.**  
**Big Pack Unit #31-34**  
**Federal Lease Number UTU-34705**  
**632' FNL & 1972' FEL**  
**Section 34, T11S-R20E, SLB&M**  
**Uintah County, Utah**

(3) No additional protective measures are planned to protect livestock and wildlife.

5. **LOCATION AND TYPE OF WATER SUPPLY**

- A. Water will be obtained from the State of Utah; Willow Creek at Buck Canyon under A-1 Tank Rental water permit #49-2179. Dependant on the availability of water from Willow Creek water may have to be purchased from a water supply well located in Ouray, Utah under water permit #43-8496, A-1 Tank Rental.
- B. Water will be hauled by tank truck to the drilling site as needed. The access will conform to roads identified on 'A' Topo.
- C. No water well will be drilled on, or near, this well location.

6. **SOURCE OF CONSTRUCTION MATERIALS**

- A. No construction materials are anticipated for drilling the well or constructing the access road onto the location. Compacted cut material will be utilized for the drilling site and access road. Drill-site and pit top soil will be stockpiled for re-vegetation and be placed between Points 'B' and 6 as shown on Figure #1.
- B. Only native construction materials in the permitted area of disturbance, outlined for use in construction herein, will be used from BLM administered lands.
- C. Native surface soil materials for construction of the new access road should be sufficient. If necessary, road surface materials (3/4" road-base) will be purchased from the dirt contractor. An appropriate crush will be specified.
- D. 'A' Topo and 'B' Topo identify the access roads. Uintah County and Bureau of Land Management roads are involved. Care will be taken in maintaining County and BLM road entrances and will adhere to BLM and Uintah County Standards.
- E. Figure #2 shows proposed cut & fill cross-sections for the location.

7. **METHODS OF HANDLING WASTE DISPOSAL**

- A. Methods and location of proposed safe containment and disposal of waste material are:
  - (1) Cuttings not retained for evaluation purposes will be discharged into the reserve pit as

**SURFACE USE AND OPERATING – 13 POINT PLAN**  
**Attached to Form 3160-3**  
**Mak-J Energy Operating Company, LLC.**  
**Big Pack Unit #31-34**  
**Federal Lease Number UTU-34705**  
**632' FNL & 1972' FEL**  
**Section 34, T11S-R20E, SLB&M**  
**Uintah County, Utah**

shown on Figure #1.

- (2) A portable chemical toilet will be provided on the location for human waste. Trailer septic tank facilities will be provided for trailer wastes. This sewage waste will be removed to and disposed of at the Ashley Valley Sewage Treating Plant.
  - (3) Garbage and trash produced during drilling, completion and testing operations will be handled in a trash cage. This garbage will be hauled to the Uintah County landfill after drilling / completion operations are finished. Water and tailings will be disposed into the reserve pit.
  - (4) Small amounts of potassium chloride are anticipated in the drilling mud system and will be disposed of in the reserve pit.
  - (5) No toxic waste/chemicals subject to reporting under SARA Title III in an amount greater than 10,000 pounds will be used in the proposed operations.
  - (6) If the well is productive, produced water will be disposed of at the Ace Disposal - 10 miles west of Vernal, Utah.
- B. Drilling mud/water will be contained in steel mud tanks or in the reserve pit. It will be disposed of by pit evaporation or hauled to an appropriate disposal facility. Oil produced during drilling operations, if sufficient, will be trucked from location. The reserve pit will be lined with a synthetic liner as described in section 9C. The reserve pit will contain any excess flow from the well during mud drilling and cementing operations. The dimensions of the pit will be approximately 150' x 100' x 10' deep as shown in Figure #1.
- C. After the rig moves out, all materials will be cleaned up and no adverse materials will be left on location. All stock piles of top soil will be seeded with the mixture described in Section 10A and will be walked in with a dozer to hold seed and minimize erosion. Any open pits will be fenced after drilling operations conclude and these pits will remain fenced until they have dried. All pits will be back filled, re-contoured, and re-seeded when pits are dry enough to backfill as weather permits. Only that part of the pad required for production operations and well maintenance operations will be kept in use. All other drill pad areas will be re-contoured and re-seeded. In the event of a dry hole, only an appropriately specified dry hole marker will remain.

8. **ANCILLARY FACILITIES**

No air strip, campsite, or other facilities will be constructed during drilling and completion operations at this

**SURFACE USE AND OPERATING – 13 POINT PLAN**  
**Attached to Form 3160-3**  
**Mak-J Energy Operating Company, LLC.**  
**Big Pack Unit #31-34**  
**Federal Lease Number UTU-34705**  
**632' FNL & 1972' FEL**  
**Section 34, T11S-R20E, SLB&M**  
**Uintah County, Utah**

well site.

9. **WELL SITE LAYOUT**

- A. Refer to Figure #1 for the drill pad layout as staked. Planned cuts and fills across the location are shown on Figure #2.
- B. Refer to Figure #1 for a planned location diagram of the proposed rig and drilling equipment, reserve pit, and pipe racks. No permanent living facilities are planned. There will be trailers for supervision on the site. Sewage will be collected in septic facilities for disposal.
- C. The rig orientation, turn-around area, parking area, and access road entrance onto location are shown on Figure #1. The reserve pit will be located on the eastern corner of the location. A plastic nylon reinforced liner will be used. **It will be a minimum of 12 mil thickness with felt bedding to cover any rocks.** The 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 flare pit may receive cuttings, gas, and mud/water during drilling operations. The flare pit will be approximately 20' x 20' x 6' deep. The flare pit will be located at least 100' (nearest corner or edge) from the wellbore, +/-30 ft from the east/northeast corner of the reserve pit. A minimum 10' earthen backstop of earth fill shall be constructed at the far end of the flare pit. Earthen embankments shall be constructed to prevent fluid loss to surrounding lands. Flare pit fluids shall drain via a trench, by gravity, into the reserve pit (see Figure #1).

A collection reservoir approximately 50' east of Point 'B' will be dug adjacent to the diversion ditch.

The reserve pit will be fenced with 39-inch net wire with one strand of barbed wire on the three (3) exterior sides prior to the commencement of drilling operations. The fourth side will be fenced when the rig moves off location. The flare pit will be fenced on all sides prior to the commencement of drilling operations.

10. **PLANS FOR RESTORATION OF SURFACE**

- A. Productive Well

The plan for rehabilitation of the disturbed area no longer needed for production operations after drilling and completion activities are finished is as follows:

**SURFACE USE AND OPERATING – 13 POINT PLAN**  
**Attached to Form 3160-3**  
**Mak-J Energy Operating Company, LLC.**  
**Big Pack Unit #31-34**  
**Federal Lease Number UTU-34705**  
**632' FNL & 1972' FEL**  
**Section 34, T11S-R20E, SLB&M**  
**Uintah County, Utah**

The entire location will be inspected for trash and other refuse, and such trash/refuse if found, will be cleaned up.

Oil or other adverse substance on the pits will be removed in accordance with 43 CFR 3162.7-1.

The pit liner will be torn and perforated before back filling of the reserve pit after the contents of the pit are dry.

The area of the drill site not needed for producing operations/facilities and well maintenance operations will be re-contoured to the original contours as nearly as possible and re-vegetated/re-seeded along contours. Vegetation and rehabilitation will be achieved by reseeding after re-contouring the site. A seed mixture of 4 #/acre Shadscale, 3 #/acre Indian Rice Grass, 4 #/acre Needle & Thread Grass, and 1 #/acre Crested Wheat will be used. Time to complete rehabilitation depends upon the time necessary for pits to dry. Pit closure, re-contouring, planting, and re-vegetation should occur by fall 2006, if normal weather patterns ensue.

**B. Dry Hole/Abandoned Location**

If the well is to be plugged and abandoned, a subsequent report of abandonment will be submitted to obtain the appropriate surface rehabilitation conditions of approval.

**11. SURFACE OWNERSHIP**

The surface ownership of the proposed access road and location is BLM.

**12. OTHER INFORMATION**

A Cultural Resources Survey, by Montgomery Archaeological Consultants, Moab, Utah has been completed for the proposed well site, access road, and pipeline route within the Unit boundary. No significant cultural resources were identified. The archeological report is attached to this permit. As mentioned earlier a separate pipeline access right-of-way will be filed and separate Cultural Resources Survey will be conducted on a planned pipeline to transport gas out of the Unit and to market. A Paleontological Reconnaissance Report has also been completed by Montgomery Archeological Consultants. It is also included in this report and no signs of fossil material inside the proposed construction area were found. An on-site inspection was conducted on March 16, 2005 under NOS procedure. In attendance were Paul Buhler and Amy Torres, Bureau of Land Management - Vernal Resource Area, Jim and Travis Oldham of Diamond J Construction Inc., and Todd S. McDonald with Mak-J Energy Operating Company LLC.

Noxious weeds will be controlled along rights-of-way for roads, pipelines, well sites, or other applicable

**SURFACE USE AND OPERATING – 13 POINT PLAN**  
**Attached to Form 3160-3**  
**Mak-J Energy Operating Company, LLC.**  
**Big Pack Unit #31-34**  
**Federal Lease Number UTU-34705**  
**632' FNL & 1972' FEL**  
**Section 34, T11S-R20E, SLB&M**  
**Uintah County, Utah**

facilities pertaining to this project. A pesticide use proposal will be submitted prior to the application of herbicides or pesticides.

Drilling rigs and/or equipment will not be stacked or stored on Federal lands.

There are no drilling and/or construction restrictions associated with this well site. The BLM will be notified prior to any construction on this well.

13. **LESSEE'S AND OPERATOR'S REPRESENTATIVE**

Mak-J Energy Operating Company, LLC.  
370 17<sup>th</sup> Street, Suite 2710  
Denver, Colorado 80202

Contact: Todd S. McDonald  
Vice President  
phone: (303) 339-5873 office

phone: (303) 320-4523 home  
phone: (303) 842-0883 cellular

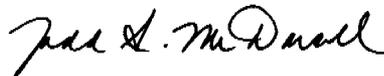
**SURFACE USE AND OPERATING – 13 POINT PLAN**  
**Attached to Form 3160-3**  
**Mak-J Energy Operating Company, LLC.**  
**Big Pack Unit #31-34**  
**Federal Lease Number UTU-34705**  
**632' FNL & 1972' FEL**  
**Section 34, T11S-R20E, SLB&M**  
**Uintah County, Utah**

**CERTIFICATION**

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access routes; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with operations proposed herein will be performed by Mak-J Energy Operating Company, LLC. and its contractors and subcontractors in conformity with this plan and the terms & conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C.1001 for the filing of a false statement.

Please be advised that Mak-J Energy Operating Company is considered to be the operator of the Big Pack Unit #31-34, which is located in the NW/4 NE/4, Section 34, Township 11S, Range 20E, Federal Lease #UTU-34705, Uintah County, Utah and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Operations will be conducted under Mak-J Energy Operating Company BLM Bond number UTB000160 which provides state-wide bond coverage on all Federal lands.

Date: March 31, 2005



Todd S. McDonald  
Vice President  
Mak-J Energy Operating Company, LLC.

CULTURAL RESOURCE INVENTORY OF  
MAK-J ENERGY'S BIG PACK UNIT  
16 WELL LOCATIONS  
UINTAH COUNTY, UTAH

Kylie Lower-Eskelson  
and  
Keith Montgomery

CULTURAL RESOURCE INVENTORY OF  
MAK-J ENERGY'S BIG PACK UNIT  
16 WELL LOCATIONS  
UINTAH COUNTY, UTAH

By:

Kylie Lower-Eskelson  
and  
Keith Montgomery

Prepared For:

Bureau of Land Management  
Vernal Field Office  
and  
State of Utah  
School and Institutional  
Trust Lands Administration

Prepared Under Contract With:

Mak-J Energy Partners, Ltd.  
370 17<sup>th</sup> Street, Suite 2710  
Denver, CO 80202

Prepared By:

Montgomery Archaeological Consultants  
P.O. Box 147  
Moab, Utah 84532

MOAC Report No. 05-45

March 21, 2005

United States Department of Interior (FLPMA)  
Permit No. 04-UT-60122

State of Utah Antiquities Project (Survey)  
Permit No. U-05-MQ-0096b,s

## ABSTRACT

In March of 2005, a cultural resource inventory was conducted by Montgomery Archaeological Consultants, Inc. (MOAC) of Mak-J Energy's 16 proposed well locations with associated access/pipeline corridors situated in the Big Pack Mountain locality of Uintah County, Utah. The proposed well locations are designated Big Pack Unit 21-15, 12-15, 14-15, 21-22, 32-22, 32-22, 21-27, 24-27, 31-34, 34-34, 41-3, 12-2, 12-33, 32-29, 14-20, 23-20. The legal description of the project is T 11S R 20E Sections 15, 20, 22, 27, 29, 32, 33, 34, and 35, and T 12S R 20E Sections 2, 3, 4, 9, and 10. A total of 437 acres was inventoried with 408 acres occurring on lands administered by the Bureau of Land Management (BLM) and an additional 19 acres occurring on lands administered by the School and Institutional Trust Lands Administration (SITLA).

The cultural resource inventory resulted in the documentation of 15 new historic sites (42Un4728 through 42Un4742). All of the newly documented sites are recommended not eligible to the NRHP because they lack additional research potential and are unlikely to contribute to the history of the area. Ten of these sites (42Un4728, 42Un4730, 42Un4731, 42Un4732, 42Un4734, 42Un4735, 42Un4736, 42Un4737, 42Un4738, and 42Un4741) are surficial historic temporary home-on-range camps with ephemeral features and limited artifact assemblages. Temporal indicators at most of these camps indicate an occupation between 1935 and 1945. Three of the sites (42Un4729, 42Un4739 and 42Un4742) are surficial low density historic artifact scatters which lack associated features. Site 42Un4740 is a prospectors pit with one tin can artifact and site 42Un4733 is a corral with axe-cut wood piles and a mixture of in-period and modern trash. Historic temporary camps are common site types to the area with minimal artifact classes (mostly tin cans). None of these sites are related to known historical events or important persons. Therefore, they do not add significant data to the historic research domains of the area beyond their present documentation.

The inventory of Mak-J Energy's 16 proposed well locations with access and pipeline corridors resulted in the documentation of 15 historic sites (42un4728 through 42Un4742). None of these sites are recommended as eligible to the NRHP and therefore no avoidance recommendations are proposed. On the basis of the findings, a recommendation of "no historic properties affected" pursuant to Section 106, CFR 800 is proposed for this project.

## INTRODUCTION

In March 2005, a cultural resource inventory was conducted by Montgomery Archaeological Consultants, Inc. (MOAC) of Mak-J Energy's, 16 well pads and access roads in the Big Pack Mountain Locality of Uintah County. The project area is located southeast of Roosevelt, Utah in Duchesne County, northeastern Utah. The proposed well locations are designated Big Pack Unit 21-15, 12-15, 14-15, 21-22, 32-22, 32-22, 21-27, 24-27, 31-34, 34-34, 41-3, 12-2, 12-33, 32-29, 14-20, 23-20. The inventory was implemented at the request of Todd McDonald, Mak-J Energy Partners, Denver, Colorado. The project area occurs on both lands administered by the Bureau of Land Management (BLM), Vernal Field Office and School and Institutional Trust Lands Administration (SITLA).

The objective of the inventory was to locate, document and evaluate any cultural resources within the project area. This project was carried out in compliance with Federal and State legislation including the Antiquities Act of 1906, the National Historic Preservation Act (NHPA) of 1966, National Environmental and Historic Preservation Act of 1969, the Archaeological and Historic Conservation Act of 1972, the Archaeological Resources Protection Act of 1979 and the American Indian Religious Freedom Act of 1978.

The fieldwork was conducted by Keith R. Montgomery (Principal Investigator) and assisted by Eli Jones, Mark Beeson, Mark Bond and Kylie Lower-Eskelson between March 8 and 15, 2005 under the auspices of U.S.D.I. (FLPMA) Permit No. 04-UT-60122 and State of Utah Antiquities Project (Survey) No. U-05-MQ-0096b,s issued to MOAC, Inc., Moab, Utah.

A file search for previous projects and documented cultural resources was conducted by Marty Thomas at the Utah Division of State History (March 1, 2005). This consultation indicated that a small number of cultural resource inventories have been completed in the area, although few have been documented, none of which occur in the current project area. In 1981, Powers Elevation conducted two cultural resource inventories of a proposed well pads for Cotton Petroleum Co., both of which located no cultural resources (Tate 1981a, U-81-PA-0715b; Tate 1981b, U-81-PA-0663b). In 1983 Chambers Consultants and Planners conducted a cultural resource study on the White River oil shale lease lands in the Vernal district resulting in the documentation of 14 sites and 40 isolates including 3 historic sites, 6 prehistoric sites and 5 petroglyph sites (Reynolds, Cella, Schander 1983, U-83-CE-0499b). In 1986 Archeological-Environmental Research Corporation (AERC) conducted cultural resource evaluations of three proposed well locations in the Willow Creek and Bitter Creek Canyon localities for Enserch Exploration Company in which no sites were documented ( Hauck 1986, U-86-AF-611b). In 2005 Montgomery Archaeological Consultants conducted a Cultural Resource Inventory of Mak-J Energy's Main Pipeline for Big Pack Mtn well locations T 11S, R 20E and T11S, R 21E which resulted in the documentation of no cultural resources (Montgomery and Taylor 2005, U-05-MQ-0098b).

## DESCRIPTION OF PROJECT AREA

The proposed Mak-J Energy 16 Well Locations in the Big Pack Mountain area, southeast of Ouray, Utah in Uintah County (Figure 1 and Table 1). The legal description of the project is T 11S R 20E Sections 15, 20, 22, 27, 29, 32, 33, 34, and 35, and T 12S R 20E Sections 2, 3, 4, 9, and 10. A total of 437 acres was inventoried with 408 acres occurring on lands administered by the Bureau of Land Management (BLM) and an additional 19 acres occurring on lands administered by the School and Institutional Trust Lands Administration (SITLA).

Table 1. Mak-J Energy's 16 Well Locations and Access/Pipeline Corridors

Well Location Designation/Land Status	Legal Location and Land Status	Access/Pipeline	Cultural Resources
#21-15 BLM	T11S, R20E, Sec 15 (NE/NW)	Access and Pipeline: 312 ft	None
#12-15 BLM	T11S, R20E, Sec 15(SW/NW)	Access and Pipeline: 486 ft	42Un4728
#14-15 BLM	T11S, R20E, Sec 15 (SW/SW)	Access and Pipeline: along existing road	None
#21-22 BLM	T11S, R20E, Sec 22 (NE/NW)	Access and Pipeline: along existing road	None
#32-22 BLM	T11S, R20E, Sec 22 (SW/NE)	Access and Pipeline: along existing road	None
#34-22 BLM	T11S, R20E, Sec 22 (SW/SE)	Access and Pipeline: 676 ft	None
#21-27 BLM	T11S, R20E, Sec 27 (NE/NW)	Access and Pipeline: 974 ft	None
#24-27 BLM	T11S, R20E, Sec 27 (SE/SW)	Access and Pipeline: 732 ft	None
#31-34 BLM	T11S, R20E, Sec 34 (NW/NE)	Access and Pipeline: 459 ft	None
#34-34 BLM	T11S, R20E, Sec 34 (SW/SE)	Access and Pipeline: 1056 ft	42Un4729
#41-3 BLM	T12S, R20E, Sec 3 (NE/NE)	Access and Pipeline: 889 ft	42Un4730, 42Un4731
#12-2 Sitla	T12S, R20E, Sec 2 (SW/NW)	Access and Pipeline: 623 ft	None
#12-33 BLM	T11S, R20E, Sec 33 (SW/NW)	Access and Pipeline: along existing road	None
#32-29 BLM	T11S, R20E, Sec 29 (SW/NE)	Access and Pipeline: 482 ft	42Un4738, 42Un4739
#14-20 BLM	T11S, R20E, Sec 20 (SW/SW)	Access and Pipeline: along existing road	42n4740
#23-20 BLM	T11S, R20E, Sec 20 (NE/SW)	Access and Pipeline: 1535 ft	42Un4742, 42Un4741

Associated Access / Pipeline Corridors	T11S, R20E Sec 15, 20, 22, 27, 29, 32, 33, 34, & 35, T12S, R20E Sec 2, 3, 4, 9, & 10.	72,323 ft	42Un4732, 42Un4733, 42Un4734, 42Un4735, 42Un4736, 42Un4737
--	---	-----------	--

### Environment

The study area lies within the Uinta Basin physiographic unit, a distinctly bowl-shaped geologic structure (Stokes 1986:231). The Uinta Basin ecosystem is within the Green River drainage, considered to be the northernmost extension of the Colorado Plateau. The geology is comprised of Tertiary age deposits which include Paleocene age deposits, and Eocene age fluvial and lacustrine sedimentary rocks. The Uinta Formation, which is predominate in the project area, occurs as eroded outcrops formed by fluvial deposited, stream laid interbedded sandstone and mudstone, and is known for its prolific paleontological localities.

Specifically, the project area occurs on the east side of Willow Creek on the valley floors which are interspersed by flat topped buttes and narrow steep-sided ridges. The area is heavily dissected and carved by ephemeral drainages. Surface geology consists of hard pan residual soil armored with shale and sandstone pebbles. The elevation ranges between 5300 ft and 6300 ft a.s.l. The project occurs within the Upper Sonoran Desert Shrub Association which includes sagebrush, shadscale, greasewood, mat saltbush, snakeweed, rabbitbrush, prickly pear cactus, Indian ricegrass and other grasses. Modern disturbances include roads and oil/gas development.

### Cultural-Historical Overview

The cultural-chronological sequence represented in the area includes the Paleoindian, Archaic, Fremont, Protohistoric, and Euro-American stages. The earliest inhabitants of the region are representative of the Paleoindian stage (ca. 12,000-8,000 B.P.). This stage is characterized by the adaptation to terminal Pleistocene environments and by the exploitation of big game fauna. The presence of Paleoindian hunters in the Uinta Basin region is implied by the discovery of Clovis and Folsom fluted points (ca. 12,000 B.P. - 10,000 B.P.), as well as the more recent Plano Complex lanceolate points (ca. 10,000 B.P. - 7,000 B.P.). Near the project area, a variety of Paleoindian projectile points have been documented, including Goshen, Alberta, and Midland styles (Hauck).

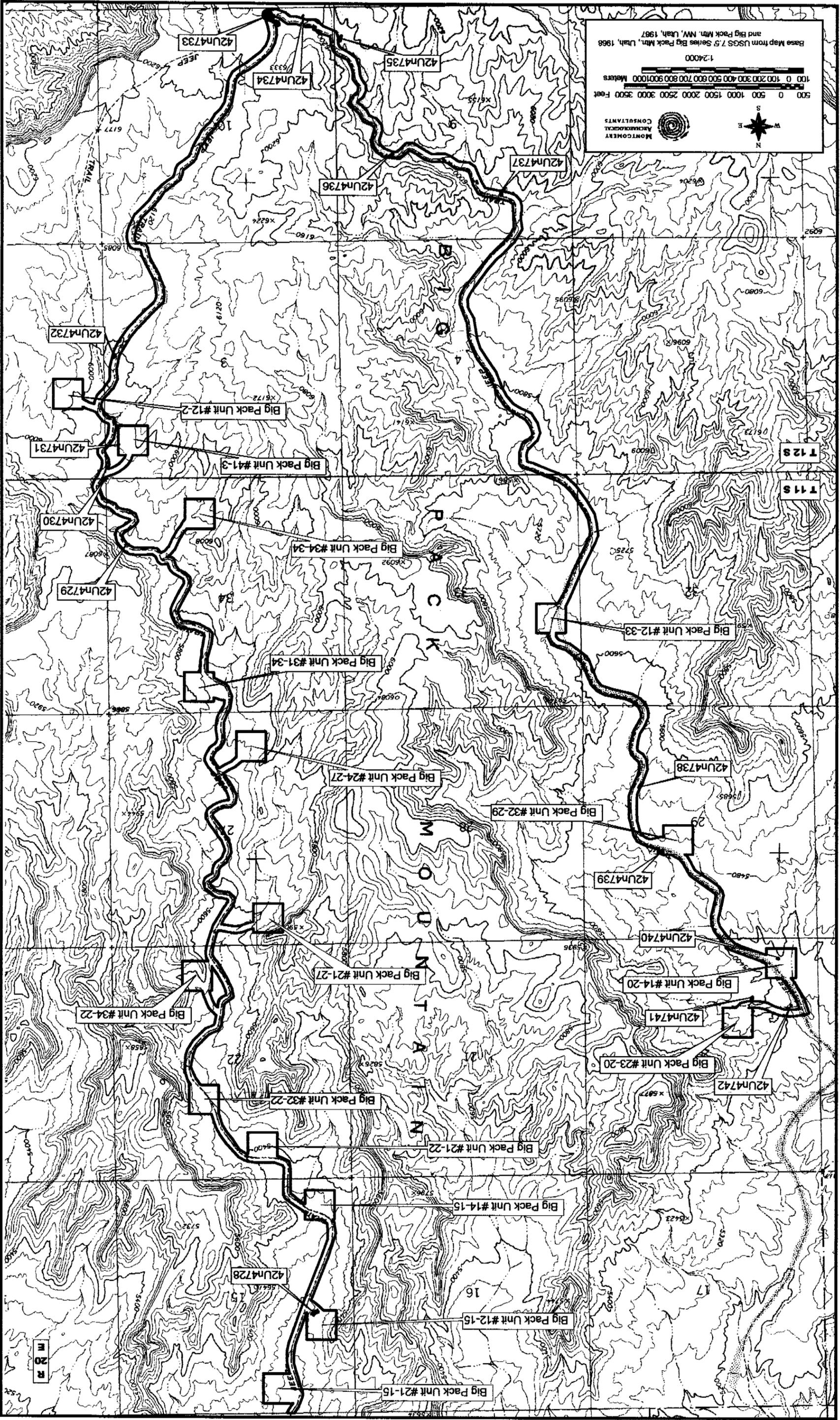
The Archaic stage (ca. 8,000 B.P.-1,500 B.P.) is characterized by the dependence on a foraging subsistence, with peoples seasonally exploiting a wide spectrum of plant and animal species in different ecozones. The shift to an Archaic lifeway was marked by the appearance of new projectile point types, and the development of the atlatl, perhaps in response to a need to pursue smaller and faster game (Holmer 1986). In the Uinta Basin, evidence of Early Archaic presence is relatively sparse compared to the subsequent Middle and Late Archaic periods. Early Archaic (ca. 6000-3000 B.C.) sites in the Basin include sand dune sites and rockshelters primarily clustered in the lower White River drainage (Spangler 1995:373). Early Archaic projectile points recovered from Uinta Basin contexts include Pinto Series, Humboldt, Elko Series, Northern Side-notched, Hawken Side-notched, Sudden Side-notched and Rocker Base Side-notched points. Excavated sites in the area with Early Archaic components include Deluge Shelter in Dinosaur National Monument, and open campsites along the Green River and on the Diamond Mountain

Base Map from USGS 7.5 Series Big Pack Mtn, Utah, 1968  
 and Big Pack Mtn, NV, Utah, 1987

1:24,000

500 0 500 1000 1500 2000 2500 3000 3500 Feet  
 100 0 100 200 300 400 500 600 700 800 900 1000 Meters

MONTGOMERY  
 ARCHITECTURAL  
 CONSULTANTS



Plateau (Spangler 1995:374). The Middle Archaic (ca. 3000-500 B.C.) is characterized by improved climatic conditions and an increase in human population on the northern Colorado Plateau. Several stratified Middle Archaic sites have been excavated and dozens of sites have been documented in the Uinta Basin. Middle Archaic sites in the area reflect cultural influences from the Plains, although a Great Basin and/or northern Colorado Plateau influence is represented in the continuation of the Elko Series projectile points. Subsistence data from Middle Archaic components indicate gathering and processing of plants as well as faunal exploitation (e.g., mule deer, antelope, bighorn sheep, cottontail rabbit, muskrat, prairie dog, beaver and birds). The Late Archaic period (ca. 500 B.C.-A.D. 550) in the Uinta Basin is distinguished by the continuation of Elko Series projectile points with the addition of semi-subterranean residential structures at base camps. By about A.D. 100, maize horticulture and Rose Springs arrow points had been added to the Archaic lifeway. In the Uinta Basin, the earliest evidence of Late Archaic architecture occurs at the Cockleburr Wash Site (42Un1476) where a temporary structure, probably a brush shelter, yielded a date of 316 B.C. (Tucker 1986). The structure was probably associated with seasonal procurement of wild floral resources gathered along Cliff Creek. The Formative stage (A.D. 500-1300) is recognized in the area as the Uinta Fremont as first defined by Marwitt (1970). This stage is characterized by a reliance upon domesticated corn and squash, increasing sedentism, and in its later periods, substantial habitation structures, pottery, and bow and arrow weapon technology. Based on the evidence from Caldwell Village, Boundary Village, Deluge Shelter, Mantles Cave and others, the temporal range of the Uinta Fremont appears to be from A.D. 650 to 950. This variant is characterized by shallow, saucer-shaped pithouse structures with randomly placed postholes and off-center firepits, some of which were adobe-rimmed. Traits considered unique or predominate to the Uinta Basin include calcite-tempered pottery, two-handled wide-mouth vessels, Utah type metates, the use of gilsonite for pottery repair, settlement on tops of buttes and large-shouldered bifaces (Shields 1970).

Archaeological evidence suggests that Numic peoples appeared in east-central Utah at approximately A.D. 1100 or shortly before the disappearance of Formative-stage peoples (Reed 1994). The archaeological remains of Numic-speaking Utes consist primarily of lithic scatters with low quantities of brown ware ceramics, rock art, and occasional wickiups. Rock art has been defined by Cole (1990) as either Early Historic Ute Indian Style (A.D. 1600 to 1830) or Late Historic Ute Indian Style (A.D. 1830 to 1880). The brown ware ceramics appear to be the most reliable indicator of cultural affiliation, as Desert Side-notched and Cottonwood Triangular points were manufactured by other cultural groups beside the Ute (Horn, Reed, and Chandler 1994:130). The Ute appear to have been hunters and gatherers who exploited various fauna and flora resources. According to macrobotanical and faunal data from dated components, deer, elk, pronghorn, bison, and small game were acquired (Reed 1994:191). Plant materials thought to have been exploited for food include goosefoot, grass seeds, pinyon nuts, juniper berries, squawbush berries and leaves, hackberry seeds and possibly saltbush seeds, knotweed, chokecherry, and chickweed (Reed 1994:191).

The cultural history of the Eastern Ute, comprising the bands living east of the Green River, has been divided into four phases (Reed 1988). The earliest and most tenuous phase is the Chipeta Phase, dated between ca. 1250 and 1400. Diagnostic artifacts include Desert Side-notched, Cottonwood Triangular, and small corner-notched arrow points, and possibly Shoshonean knives. The Canalla phase (ca. A.D. 1400-1650) designates the period between the appearance of well-dated Uncompahgre brown ware ceramics and the adoption of an equestrian lifeway. Diagnostic artifacts include Uncompahgre Brown Ware ceramics, Desert Side-notched and Cottonwood Triangular points, and Shoshonean knives. The pedestrian hunter and gatherers

probably lived in wickiups. Near the end of the phase, some groups may have obtained trade items from Spanish settlements in New Mexico (Horn, Reed, and Chandler 1994:131). The Antero phase (ca. A.D. 1650-1881) represents a shift to a fully equestrian lifestyle and integration of Euroamerican trade goods into Ute material culture. The horse permitted hunting of bison on the Plains and led to an increase in the importance of raiding for economic gain (Ibid 131). Euroamerican trade goods became important, and tepees as well as wickiups were inhabited. The early Utes in Uintah County were Uinta-ats, a small band of a few hundred members (Burton 1996:20). In pre-horse days, Ute family groups lived largely independently of others with key gathering, hunting, and fishing sites being communal and granted to all, within both the local and extralocal Ute communities (Ibid 340). According to Smith's (1974) informants both deer and buffalo were important game for the White River Ute band. Before the buffalo became extinct in the Uintah Basin in the 1830s, the Ute would make trips northeast of Fort Bridger in the vicinity of what is now Rock Springs and Green River, Wyoming using the horse to surround and drive the buffalo over a precipice (Callaway, Janetski, and Stewart 1986; Smith 1974). All Ute groups made tripod or conical houses with a three or four-pole foundation and a circular ground plan some 10 to 15 feet in diameter with covering brush or bark.

The first Euro-Americans in the Uinta Basin were Spanish missionaries, traveling between Sante Fe, New Mexico up through western Colorado, towards the Utah Valley, and on to California. In 1776, under the leadership of Fray Francisco Atanasio Dominguez and Fray Silvestre Velez de Escalante, the Spanish commenced to explore a northern route from Santa Fe to the garrison of Monterey on the California coast (Spangler et al. 1995). Euro-American traders were another early factor in the history of the Uinta Basin. Some of these were Spaniards, who continued to visit the region until the Mexican war of independence in 1821, when most Spanish were expelled from the Southwest. It was the beaver trade in the early part of the nineteenth century, that cemented trade with Ute and Shoshone in the area, and resulted in the establishment of trading posts along the major rivers in the area, including the Duchesne, Green, and Uinta (Ibid 1995).

The settlement of the Uinta Basin differs from that of much of Utah in that early settlement occurred around Indian "agencies" assigned to the Uinta and Ouray Reservations, rather than under the direction of the Mormon church (Spangler et al. 1995). Early scouting parties sent out by the Mormon church had deemed the area unfit for settlers, and it was not until later that the region began to be homesteaded. In 1861, President Lincoln established the Uintah Indian Reservation, which was recognized by an act of Congress in 1864 (Burton 1996). The Indian agencies consisted of cabins and a trading post with farms cropping up around the agency, and were directed by a government Indian agent. The first agency was constructed at the mouth of Daniels Canyon in 1864, and was moved several times before 1868. In 1880 the White River Utes and the Uncompahgre Utes were forced to move to an adjacent area of land, southeast of the Uintah Reservation, and within a few years, the reservations were combined into the Uintah-Ouray Reservation.

By 1876, only a handful of ranchers, had settled the area, to be joined that year by a group of Mormons. They formed a settlement around the ranch of Pardon Dodds, an Indian agent, located in Dry Fork Canyon; later to become known as Old Ashley Town (Burton 1996). Another small group of Mormon settlers arrived in 1878, camping near the confluence of Ashley Creek, and naming their settlement Incline. In 1878, additional Mormon settlers ventured into the area; locating near what is today Vernal. Myton, located to the northeast of the project area, started as a trading post on the Uintah Indian Reservation sometime in the mid-1880s. The trading post served a small segment of the Indian population until 1886, when the army, as part of building the road between

Price and the newly established Fort Duchesne, built a bridge over the Duchesne River (Barton 1998:154). Myton was originally known as Bridge, and quickly changed from a small, bustling way-station and Indian trading post to a town of tents and a few wooden buildings prior to the opening of the Uintah Indian Reservation around 1905. The settlement attracted people from various parts of the world including Denmark, England, Switzerland, Sweden, Wales, and Germany, as well as many states of the Union (Ibid 156).

Livestock was a primary industry in the region from early on, along with agriculture, timbering, mining, bee keeping, and freighting (Burton 1996). Most of the early Mormon settlers had only a few head of cattle, that were grazed in cooperative herds on shared pasture lands, however, large herds of cattle had been seasonally grazed in the region from as early as the 1850s (Ibid 108). Before the early 1930s, grazing in the Tavaputs Plateau region, at the southern edge of the Uintah Basin, was mostly unregulated. This, combined with the lush grassland environment of the area at the time, attracted many ranchers with their cattle, horses, and sheep (Barton 1998). By 1893, a record number of cattle were being sold. Sheep quickly became an important commodity, after their introduction to the region in 1879, and by the early 1890s, more sheep were being ranged in the region than cattle (Burton 1996). By 1935, herds of both cattle and sheep were being decreased to halt overgrazing. In 1996, only two large, year-round herds remained in Uintah County, although small farms and ranches in the region still keep small quantities of stock animals.

## SURVEY METHODOLOGY

An intensive pedestrian survey was performed for this project which is considered 100% coverage. The pipeline and access corridors were examined to a width of 100 ft for cultural resources by the archaeologists walking parallel transects spaced no more than 10 m (30 ft) apart. At the proposed well locations, a 10 acre square parcel was defined, centered on the well pad center stake. The interior of the well location was examined for cultural resources by the archaeologist walking parallel transects spaced no more than 10 meters apart. Ground visibility was considered good. A total of 437 acres was inventoried with 408 acres occurring on lands administered by the Bureau of Land Management (BLM) and an additional 19 acres occurring on lands administered by the School and Institutional Trust Lands Administration (SITLA).

Cultural resources were recorded either as archaeological sites. Archaeological sites are defined as spatially definable areas with ten or more artifacts and/or features. Sites were documented by the archaeologists walking transects across the site, spaced no more than 3 m (10 ft) apart and marking the locations of cultural materials with pinflags. This procedure allowed clear definition of site boundaries and artifact concentrations. At the completion of the surface inspection, a Trimble G.P.S. unit was employed to point-provenience diagnostic artifacts and other relevant features in reference to the site datum, a steel rebar stamped with a temporary site number. Archaeological sites were plotted on a 7.5' USGS quadrangle, photographed, and documented with site data entered on an Intermountain Antiquities Computer System (IMACS, 1990 version) inventory form (Appendix A).

## INVENTORY RESULTS

The inventory of Mak-J Energy's 16 proposed well locations resulted in the documentation of 15 new archaeological sites (42Un4728 through 42Un4742) No previously documented archaeological sites are located within the immediate project area.

### Archaeological Sites

Smithsonian Site No.: 42Un4728  
Temporary Site No.: MOAC 05-45-20  
Legal Description: T 11S, R 20E, Sec. 15  
NRHP Eligibility: Not Eligible

Description: This is a historic temporary camp located on a ridge just west of a jeep trail. The site consists of two features and a small artifact scatter. Artifacts are dominated by tin cans (N=13) which include four hole-in-cap cans, several hole-in-top milk cans, and two sanitary food containers. Miscellaneous items consist of a steel screw cap, bailing wire, and a metal strap piece. Feature A is a stone ring fire pit measuring 4' x 3'. The ring is constructed of 14 sandstone blocks varying from 6" to 18" in size, situated on the edge of a small drainage. The stones exhibit red oxidation, although no charcoal or soil staining is present. Feature B is a stone ring fire pit measuring 4' x 2 ½'. The pit is constructed of 15 sandstone slabs varying from 4" to 18" in size situated adjacent to a small drainage. The slabs exhibit red oxidation, although no charcoal or soil staining is visible. The artifacts exhibit two occupations. The earliest is represented by the hole-in-cap cans (1885-1903) and the more recent is exhibited by the hole-in-top milk cans stamped with Punch Here (1935-1945).

Smithsonian Site No.: 42Un4729  
Temporary Site No.: MOAC 05-45-19  
Legal Description: T 11S, R 20E, Sec. 34  
NRHP Eligibility: Not Eligible

Description: This is a short-term range camp located on a low ridge adjacent to a jeep trail. Cultural materials are limited to 10 sanitary (food and tobacco and hole-in-top milk) tin cans, a galvanized pail with handle, three pieces of milled wood, one key strip coffee can lid, and two metal fragments. Approximately 50 wood chips are scattered throughout the site suggesting a home-on-range temporary camp. Several hole-in-top cans stamped with the "Punch Here" lend a date range between 1935 and 1945.

Smithsonian Site No.: 42Un4730  
Temporary Site No.: MOAC 05-45-18  
Legal Description: T 11S, R 20E, Sec. 35  
NRHP Eligibility: Not Eligible

Description: This is a short term range camp located on a small hill just west of a jeep trail. The site consists of a low density artifact scatter and two features. The artifact assemblage is limited to tin cans (N=23) which include hole-in-top milk cans with ice-pick openings, sanitary commodity containers (food and coffee), an oil can (Valvoline), and tobacco tins. Feature A is a wood chip scatter comprised of approximately 40 wood chips spanning a 7' x 7' area. The largest chip in the feature measures 8" in length. The majority of the wood chips, however, are much smaller with the

average length being 3". No charcoal or soil staining are visible in association with this feature. Feature B is a fire ring comprised of at least 5 partially buried sandstone slabs, two of the slabs are upright. The average size of slabs in the feature is 14" x 8". The feature is filled by erosion and a greasewood bush grows inside. None of the slabs exhibit oxidation on the visible portions and no charcoal or soil staining is present. Tin can chronologies suggest that this may be a dual occupation site with one occupation dating from 1917-1929 and a brief second occupation post 1948.

Smithsonian Site No.: 42Un4731  
Temporary Site No.: MOAC 05-45-17  
Legal Description: T 12S, R 20E, Sec. 3  
NRHP Eligibility: Not Eligible

Description: This is a historic temporary camp consisting of two features and a small artifact assemblage situated atop and on the eastern slope of a ridge just west of a dirt road. Artifacts are dominated by tin cans (N=14) which include hole-in-top milk cans, sanitary food containers, a spice tin, and tobacco cans. Feature A is a fire ring consisting of at least four partially buried sandstone slabs. The upper portion of the slabs occur level with mean ground surface. A small sagebrush now grows within the fire ring. All of the visible slabs exhibit red oxidation on their interior facing sides and one has cracked into three separate sections. The average slab size is 15" x 12". No charcoal, ash or soil staining are visible. Feature B is a low density juniper wood chip scatter which spans an area of 8' x 8' and is comprised of approximately 50 wood chips varying in length from 9" to small splinters with the average length being 5". No charcoal, ash or soil staining are seen in association with this feature. Based on tin can chronologies the site is likely to date from 1935 to 1945.

Smithsonian Site No.: 42Un4732  
Temporary Site No.: MOAC 05-45-11  
Legal Description: T 12S, R 20E, Sec. 3  
NRHP Eligibility: Not Eligible

Description: This site is a historic temporary camp consisting of one feature and a low density artifact scatter located just east of a dirt road. Cultural materials are dominated by tin cans (N=22) which include hole-in-top milk cans with ice-pick openings (most stamped with Punch Here), and sanitary commodity cans (Spam and Maxwell House Coffee). Feature A consists of a low density wood chip scatter comprised of approximately 100 wood chips spanning an area of 12' x 12'. Wood chip sizes vary from 2' axe-cut logs to small splinters with an average length of 10". The scatter is situated atop a low lying hill and has partially eroded downslope. No ash, charcoal or soil staining is associated with this feature. There may be two occupations at this camp based on the tin can chronologies. The earliest dates between 1917 and 1929 with the most recent dating from 1935 to 1945.

Smithsonian Site No.: 42Un4733  
Temporary Site No.: MOAC 05-45-M4  
Legal Description: T 12S, R 20E, Sec. 10  
NRHP Eligibility: Not Eligible

Description: This is an in-use corral with three additional features, and associated artifacts. Feature A is a corral which is constructed of vertically set axe-cut juniper logs and bailing wire. Three 2" x 4" milled lumber posts were added subsequent to the corral's original construction. The bailing wire that encompasses the corral is strung forming a 12" x 6" rectangular pattern. The wire is hung on the juniper logs and fastened with wire nails. A 10' wide gate opening is located on the

northeast side of the corral. The gate is constructed of only wire. One juniper post is offset approximately 4' from each side of the fence in the westernmost inner corner of the corral. An additional length of rolled up bailing wire is present here and is arranged to form a separate pen using the offset juniper log as a post. The excess tolled up wire can be used to adjust the size of the separate pen. The corrals height is approximately 5'-6' and appears to be still in occasional use. Modern trash is abundant around the corral. Three additional wood chip scatter features are located on the site. The site artifact assemblage includes jar lids, miscellaneous metal fragments of unknown function, glass bottles and jars, sanitary cans and hole-in-top cans. One "Punch Here" hole-in-top milk can dates from 1935 and 1945. Additional datable artifacts extend from 1945 to modern times.

Smithsonian Site No.: 42Un4734  
Temporary Site No.: MOAC 05-45-7  
Legal Description: T 12S, R 20E, Sec. 10  
NRHP Eligibility: Not Eligible

Description: This site is a historic temporary camp consisting of one feature and a low density artifact scatter situated atop and on the northern slope of a small hill just south of a dirt road. Feature A consists of a sparse juniper wood chip scatter spanning an area of approximately 10' x 10' which contains 50-75 wood chips varying in length from 12" to small splinters with the average size being 6" in length. No ash, charcoal or soil staining are visibly associated with this feature. The sites artifact assemblage is comprised of sanitary cans, hole-in-top milk cans, a hole-in-cap can, tobacco tins, and a leather shoe strap. Tin can chronologies suggest a date range between 1903 and 1930.

Smithsonian Site No.: 42Un4735  
Temporary Site No.: MOAC 05-45-M3  
Legal Description: T 12S, R 20E, Sec. 9  
NRHP Eligibility: Not Eligible

Description: This site is a medium density historic artifact scatter situated along a ridge slope. The site consists of axe-cut wood chips which are widely scattered across this site forming no discernible concentration, a shell button (9/16 in diameter), a piece of sheet metal of unknown function, two axe-cut poles (3' 10" in length), 25 clear glass fragments, a liquor bottle with an "Owens Illinois" trademark (1933 to 1954), a purple glass piece (1880-1917), sanitary tin cans, tobacco tins and hole-in-top milk cans.

Smithsonian Site No.: 42Un4736  
Temporary Site No.: MOAC 05-45-3  
Legal Description: T 12S, R 20E, Sec. 9  
NRHP Eligibility: Not Eligible

Description: This is a historic temporary camp consisting of two features and a low density artifact scatter located just south of an east/west trending dirt road, at the base of a small hill. Feature A consists of a low density wood chip scatter which sparsely spans a 10' x 10' area. The scatter is comprised of approximately 75 juniper wood chips and 10 larger logs. The majority of the wood chips are much smaller averaging 3" in length. No charcoal, ash or soil staining are visible. Feature B is a deflated hearth with oxidized rock located on the southeastern side of a small drainage. Four sandstone slabs form the feature, two are situated side by side and one slab is placed on top with an additional slab situated just downslope. Approximately 20 small pieces of

fire-cracked rock are located downslope with light soil staining. The artifact assemblage is dominated by tin cans (N=7) which include sanitary commodity cans and hole-in-top milk cans. Also a red painted ceramic sherd was noted.. Hole-in-Top cans embossed with "Punch Here" suggest a date range between 1935 and 1945.

Smithsonian Site No.: 42Un4737  
Temporary Site No.: MOAC 05-45-2  
Legal Description: T 12S, R 20E, Sec. 9  
NRHP Eligibility: Not Eligible

Description: This is a historic temporary camp consisting of two features and a low density artifact scatter situated on the south side of a dirt road immediately south of a prominent ridge. Feature A consists of two collapsed segments of a hand woven wire fence constructed of two sizes of bailing wire. Wire widths are 1/16" and 2/16" are the woven fence measured approximately 3' in height where discernible. Feature B is a medium density wood chip scatter consisting of approximately 200 juniper wood chips spanning a 6' x 8' area. Wood chips vary in length from 12" to small splinters with the average length being 6". Cultural materials include sanitary commodity cans, hole-in-top milk cans, a white enamel covered metal lid (5 1/4" in diameter), a galvanized metal tub (embossed with "ANTI WEDGE"), a rectangular metal cow bell, and a piece of bailing wire. Hole-in-top milk cans stamped with "Punch Here" suggest a date range between 1935 and 1945.

Smithsonian Site No.: 42Un4738  
Temporary Site No.: MOAC 05-45-16  
Legal Description: T 11S, R 20E, Sec. 29  
NRHP Eligibility: Not Eligible

Description: This is a historic temporary camp consisting of three features and a medium density artifact scatter situated atop a low ridge just west of a dirt road. Feature A is a stove platform comprised of three sandstone slabs. Two of the slabs are situated 12" apart in a north-south alignment with the third located immediately west. Both the northern and western slabs exhibit red oxidation on their interior sides. No charcoal, ash or soil staining are associated with the feature. Feature B is a wood chip scatter spanning an area of approximately 10' x 10'. The scatter is comprised of 100+ juniper wood chips varying in size from 12" to small splinters with the average length being 5". No ash, charcoal or soil staining are associated with this feature. Feature C is a rock alignment consisting of 15 sandstone slabs situated in a semi-circular alignment beside a low ledge which rises approximately 12" above mean ground surface. Slabs in the alignment vary in size from 20" x 8" x 5" to 7" x 4" x 2". Five of the slabs exhibit red oxidation and five small pieces of fire-cracked rock occur within the alignment, although no charcoal or soil staining are present. Cultural materials are limited to a galvanized metal basin, a black enamel covered metal hair brush handle, plastic thongs (likely a portion of the hair brush), a modified metal barrel, an external friction lid, a galvanized nail, a rectangular oil can, an oval shaped tin (possibly talcum powder), an internal friction lard can, hole-in-top milk cans, sanitary commodity cans and tobacco tins. Based on hole-in-top cans the occupation dates from 1935 to 1945.

Smithsonian Site No.: 42Un4739  
Temporary Site No.: MOAC 05-45-15  
Legal Description: T 11S, R 20E, Sec. 29  
NRHP Eligibility: Not Eligible

Description: This site is a low density historic artifact scatter situated immediately southeast of a low lying east/west trending ridge and just north of a dirt road. Cultural materials consist of sanitary

commodity containers, hole-in-top milk cans, a hole-in-cap can, one green glass shard, a tobacco tin, and a small bunch of wound bailing wire. The hole-in-top milk cans embossed with "Punch Here" suggests a date range of 1935 to 1945, although the hole-in-cap can may be earlier.

Smithsonian Site No.: 42Un4740  
Temporary Site No.: MOAC 05-45-M2  
Legal Description: T 11S, R 20E, Sec. 20  
NRHP Eligibility: Not Eligible

Description: This is prospect pit which has been excavated into the slope of a ridge. The sandstone is shale-like and yellow brown in color. The pit appears to have been excavated by hand and exhibits straight, stair-stepped sides on it's southern edge. The pit is rectangular in shape and measures approximately 15' x 25', with a depth of 4'. Each of the stair-steps on the southern edge (three in total) measure 1 ½' in height. Back dirt from the prospect is eroding downslope to the north. One hole-in-top can comprised the site artifact assemblage. This can has a date range of 1917 to 1929.

Smithsonian Site No.: 42Un4741  
Temporary Site No.: MOAC 05-45-M1  
Legal Description: T 11S, R 20E, Sec. 20  
NRHP Eligibility: Not Eligible

Description: This site is a historic temporary camp situated aside a drainage consisting of one feature and a small artifact scatter. Feature A is an axe-cut wood chip scatter comprised of approximately eight pieces of axe-cut wood spanning a 7' x 8' area. Wood chips in the scatter vary in size from 3" to 7". The sites artifact assemblage is comprised of seven hole-in-cap milk cans of two different sizes. Production of hole-in-cap cans ceased by 1914 hence the site likely dates before 1914.

Smithsonian Site No.: 42Un4742  
Temporary Site No.: MOAC 05-45-12  
Legal Description: T11S, R 20E, Sec. 20  
NRHP Eligibility: Not Eligible

Description: This site is a low density artifact scatter situated just north of a small knoll on the east side of a dirt road. The sites artifact assemblage consists of sanitary commodity cans, a tobacco tin, hole-in-top milk cans, a metal pull-tab, and one oxidized sandstone slab. The hole-in-top cans embossed with "Punch Here" indicated a date between 1935 and 1945.

## NATIONAL REGISTER OF HISTORIC PLACES EVALUATION

The National Register Criteria for Evaluation of Significance and procedures for nominating cultural resources to the National Register of Historic Places (NRHP) are outlined in 36 CFR 60.4 as follows:

The quality of significance in American history, architecture, archaeology, and culture is present in districts, sites, buildings, structures, and objects of State and local importance that possess integrity of location, design, setting, material, workmanship, feeling, and association, and that they:

- a)...are associated with events that have made a significant contribution to the broad patterns of our history; or
- b)...are associated with the lives of persons significant to our past; or
- c)...embody the distinctive characteristics of a type, period, or method of construction; or that represents the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or
- d)...have yielded or may be likely to yield information important in prehistory or history.

The cultural resource inventory resulted in the documentation of 15 new historic sites (42Un4728 through 42Un4742). All of the newly documented sites are recommended not eligible to the NRHP because they lack additional research potential and are unlikely to contribute to the history of the area. Ten of these sites (42Un4728, 42Un4730, 42Un4731, 42Un4732, 42Un4734, 42Un4735, 42Un4736, 42Un4737, 42Un4738, and 42Un4741) are surficial historic temporary home-on-range camps with ephemeral features and limited artifact assemblages. Temporal indicators at most of these camps indicate an occupation between 1935 and 1945. Three of the sites (42Un4729, 42Un4739 and 42Un4742) are surficial low density historic artifact scatters which lack associated features. Site 42Un4740 is a prospectors pit with one tin can artifact and site 42Un4733 is a corral with axe-cut wood piles and a mixture of in-period and modern trash. Historic temporary camps are common site types to the area with minimal artifact classes (mostly tin cans). None of these sites are related to known historical events or important persons. Therefore, they do not add significant data to the historic research domains of the area beyond their present documentation.

Table 2. Cultural Resources, Location, NRHP Assessment, and Avoidance Recommendations

<b>Site Number</b>	<b>Legal Description</b>	<b>NRHP Assessment</b>	<b>Avoidance Recommendations</b>
42Un4728	SE, SW, NW of Section 15 T11S , R20E	Not Eligible	N/A
42Un4729	SE, NE, NE of Section 34 T11S , R20E	Not Eligible	N/A
42Un4730	SW, SW, SW of Section 35 T11S , R20E	Not Eligible	N/A
42Un4731	SE, NE, NE of Section 3 T12S , R20E	Not Eligible	N/A
42Un4732	NE, NE, SE of Section 3 T12S , R20E	Not Eligible	N/A
42Un4733	SW, SE, SW of Section 10 T12S, R20E	Not Eligible	N/A
42Un4734	SE, SW, SW of Section 10 T12S , R20E	Not Eligible	N/A
42Un4735	NE, SE, SE of Section 9 T12S, R20E	Not Eligible	N/A
42Un4736	NW, SE, NE of Section 9 T12S , R20E	Not Eligible	N/A
42Un4737	SW, NE, NW of Section 9 T12S , R20E	Not Eligible	N/A
42Un4738	SE, NW, SE of Section 29 T11S , R20E	Not Eligible	N/A
42Un4739	NE, SW, NE of Section 29 T11S , R20E	Not Eligible	N/A
42Un4740	SW, SE, SW of Section 20 T11S, R20E	Not Eligible	N/A
42Un4741	SW, NE, SW of Section 20 T11S, R20E	Not Eligible	N/A
42Un4742	SW, NW, SW & SE, NW, SW of Section 20 T11S , R20E	Not Eligible	N/A

## CONCLUSIONS AND RECOMMENDATIONS

The inventory of Mak-J Energy's 16 proposed well locations with access and pipeline corridors resulted in the documentation of 15 historic sites (42un4728 through 42Un4742). None of these sites are recommended as eligible to the NRHP and therefore no avoidance recommendations are proposed. On the basis of the findings, a recommendation of "no historic properties affected" pursuant to Section 106, CFR 800 is proposed for this project.

## REFERENCES CITED

- Barton, J.D.  
1998 *A History of Duchesne County*. Slat Lake City: Utah State Historical Society.
- Burton, D.K.  
1996 *A History of Uintah County: Scratching the Surface*. Salt lake City: Utah State Historical Society.
- Callaway, D., J. Janetski, and O.C. Stewart  
1986 Ute. In *Great Basin*, edited by Warren L. D'Azevedo, pp. 336-367. Handbook of North American Indians, Volume II: Great Basin, edited by William C. Sturtevant, Amithsonian Institution, Washington.
- Hauck F.  
1986 Cultural Resource Evaluations of Three Proposed Well Locations in the Willow Creek - Bitter Creek Canyon Localities of Uintah County, Utah. Project No.U-85-AF-611b.
- 1998 *Cultural Resource Evaluation of Various Large Tracts in the Wells Draw to Pariette Bench Locality in Duchesne and Uintah Counties, Utah*. Archeological-Environmental Research Corporation, Bountiful, Utah. Report No. U-98-AF-0164b,s, available at the BLM Vernal Field Office, Vernal Utah.
- Holmer, R.  
1986 Projectile Points of the Intermountain West. In *Anthropology of the Desert West: Essays in Honor of Jesse D. Jennings*, edited by Carol J. Condie and Don D. Fowler, pp. 89-116. *University of Utah Anthropological Papers* No. 110. Salt Lake City.
- Horn, J.C., A.D. Reed, and S.M. Chandler  
1994 Grand Resource Area Class I Cultural Resource Inventory. Alpine Archaeological Consultants, Inc. Montrose. Bureau of Land Management, Moab, Utah.
- Marwitt, J.P.  
1970 Median Village and Fremont Culture Regional Variation. *University of Utah Anthropological Papers* No. 95. Salt Lake City.

- Montgomery K. and J. Taylor  
 2005 Cultural Resource Inventory of Mak-J Energy's Main Pipeline for Big Pack Mtn Well Locations, T 11S, R 20E and T 11S, R 21E, Uintah County, Utah. Project No. U-05-MQ-0096b.
- Reed A.D.  
 1988 *Ute Cultural Chronology*. In *Archaeology of the Eastern Ute: A Symposium* edited by Paul R. Nickens, pp 79-101. Colorado Council of Professional Archaeologists Occasional Papers No. 1 Denver.
- 1994 The Numic Occupation of Western Colorado and Eastern Utah during the Prehistoric and Protohistoric Periods. In *Across the West: Human Population Movement and the Expansion of the Numa*, edited by D.B. Madsen and D. Rhode, pp. 188-199. University of Utah Press, Salt Lake City.
- Reynolds, W.E., C.ella N., Schandler M.  
 1983 Cultural Resource Study on the White River Oil Shale Lease Lands in the Vernal District, Utah. Project No. U-83-CE-0499b
- Shields, W.F.  
 1970 The Fremont Culture in the Uinta Basin. Paper presented at the Fremont Culture Symposium, 35<sup>th</sup> Annual Meeting of the Society for American Archaeology, Mexico City.
- Spangler, J.D.  
 1995 *Paradigms and Perspectives, A Class I Overview of Cultural Resources in the Uinta Basin and Tavaputs Plateau, Volume II*. Uinta Research, Salt Lake City, Utah.
- Stokes, W.L.  
 1986 *Geology of Utah*. Utah Museum of Natural History, University of Utah, Salt Lake City.
- Tate, M.J.  
 1981a Cultural Resource Management Report of Lafkas Federal 1-3. Project No. U-81-PA-0715b.
- 1981b Summary Report of Inspection for Cultural Resources Hill Federal 1-10. Project No. U-81-PA-0663b.
- Tucker, G.C. Jr.  
 1986 Results of Archaeological Investigations Along the Chevron CO-2/PO-4 Pipelines in Northeastern Utah and Northwestern Colorado. Manuscript on file, Bureau of Land Management, Vernal, Utah.

APPENDIX A

INTERMOUNTAIN ANTIQUITIES COMPUTER SYSTEM (IMACS)  
SITE INVENTORY FORMS

On File At:

Utah Division of State History  
Salt Lake City, Utah  
and  
Bureau of Land Management  
Vernal Field Office



# MAK J ENERGY

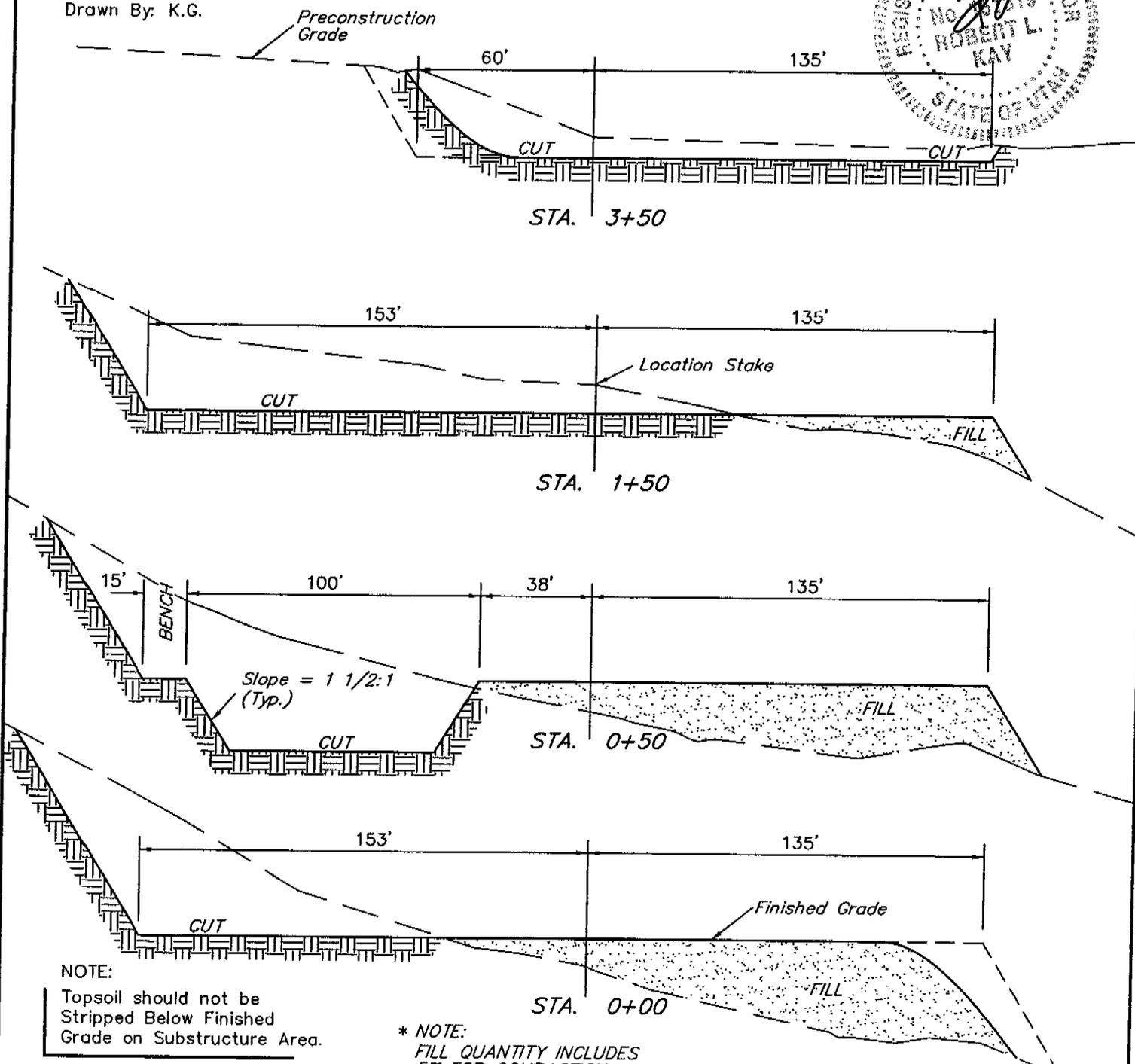
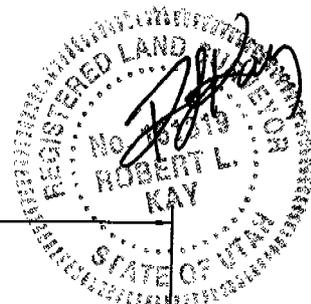
FIGURE #2

## TYPICAL CROSS SECTIONS FOR

BIG PACK UNIT #31-34  
SECTION 34, T11S, R20E, S.L.B.&M.  
632' FNL 1972' FEL

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

DATE: 1-31-05  
Drawn By: K.G.



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	= 2,090 Cu. Yds.
Remaining Location	= 13,450 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 15,540 CU.YDS.</b>
<b>FILL</b>	<b>= 11,490 CU.YDS.</b>

EXCESS MATERIAL	= 4,050 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 4,050 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	= 0 Cu. Yds.

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

CONDENSATE - WATER LINE

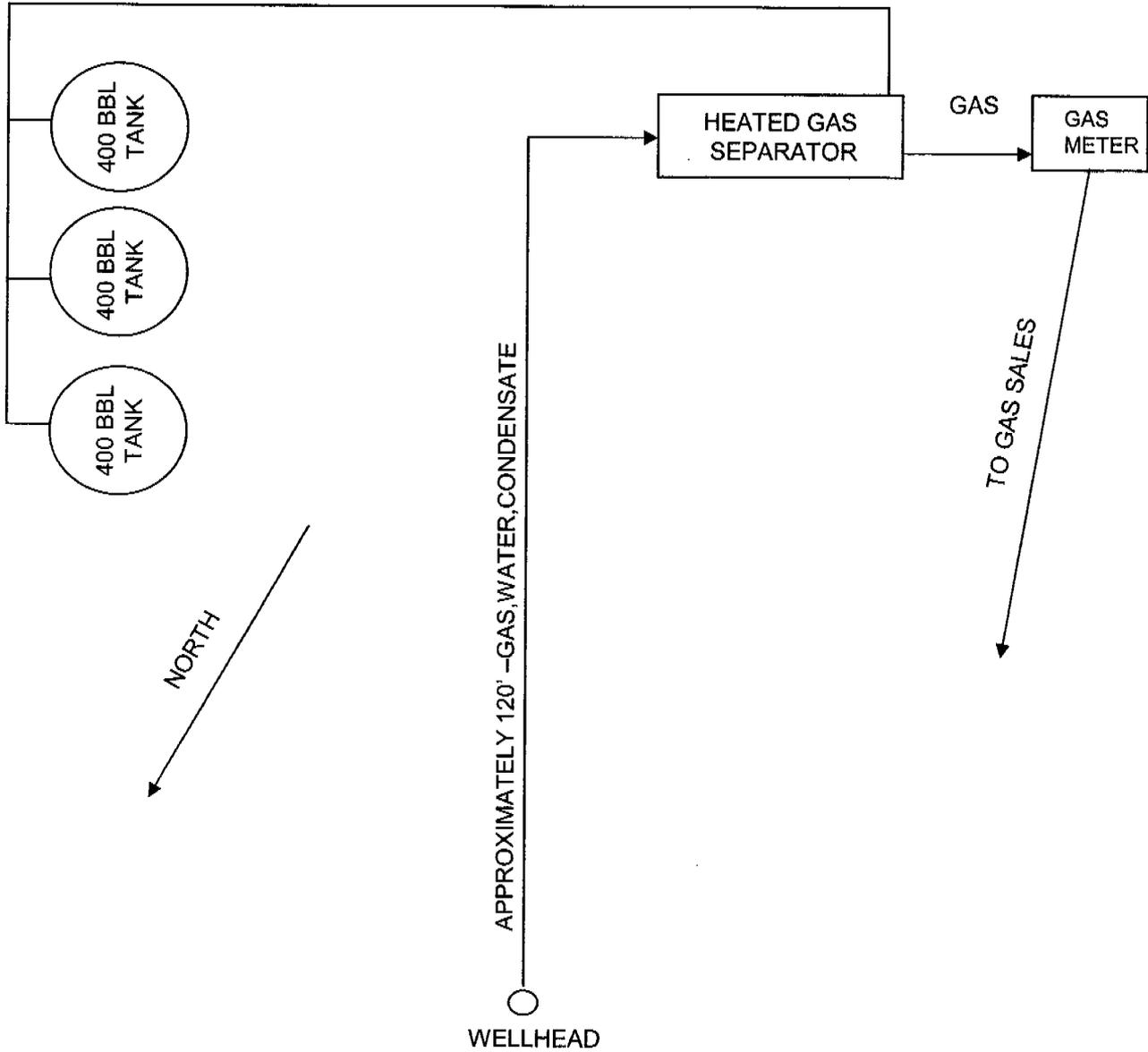
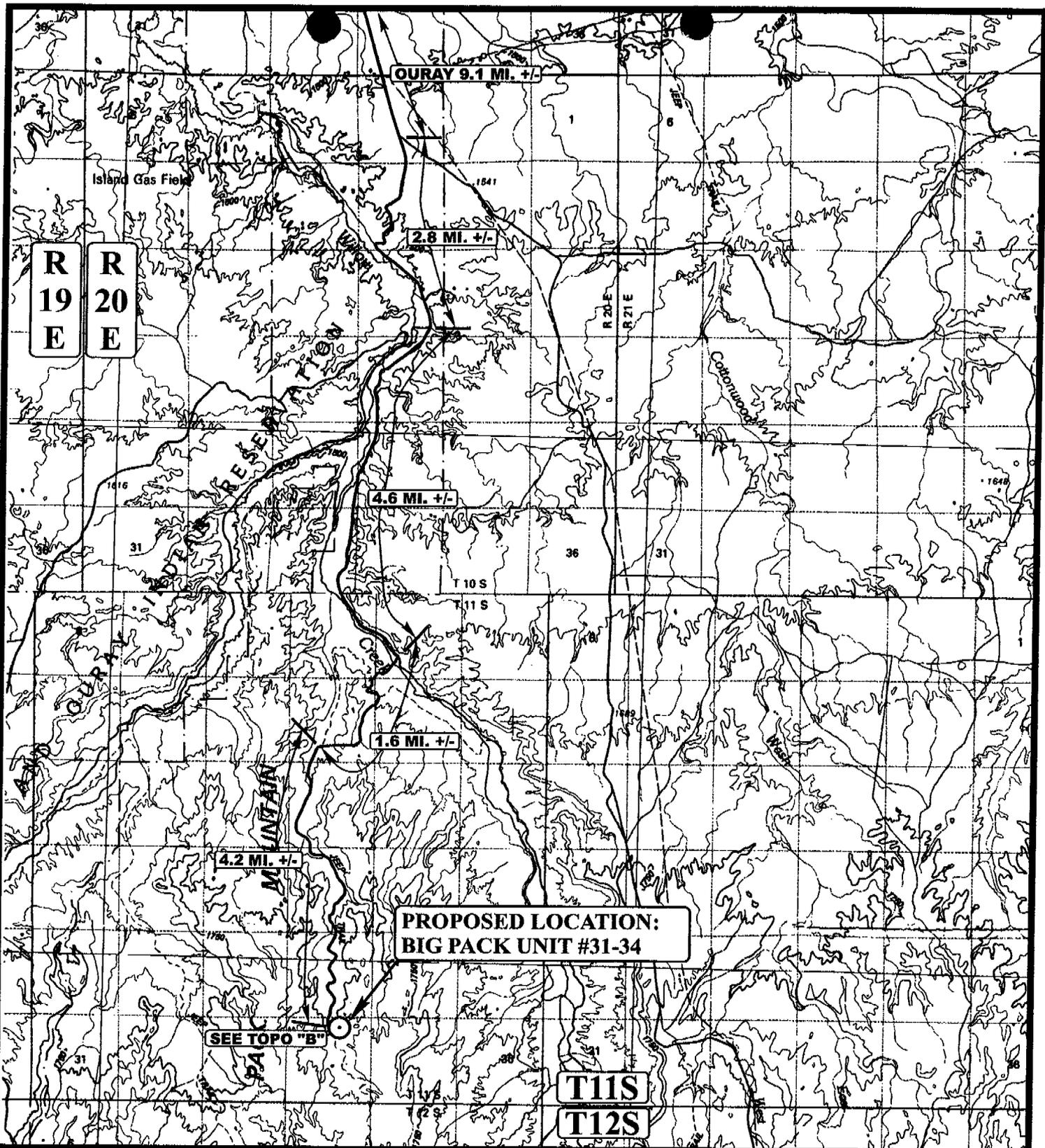


FIGURE #3  
NOT TO SCALE

MAK-J ENERGY OPERATING CO, LLC  
BIG PACK UNIT #31-34  
FEDERAL LEASE NUMBER UTU-34705  
632' FNL & 1972' FEL  
SECTION 34, T11S-R20E  
UNITAH COUNTY, UTAH

ACCESS ROAD

350'



**PROPOSED LOCATION:  
BIG PACK UNIT #31-34**

SEE TOPO "B"

**T11S**

**T12S**

**LEGEND:**

⊙ PROPOSED LOCATION

**MAK J ENERGY**

**BIG PACK UNIT #31-34  
SECTION 34, T11S, R20E, S.L.B.&M.  
632' FNL 1972' FEL**



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

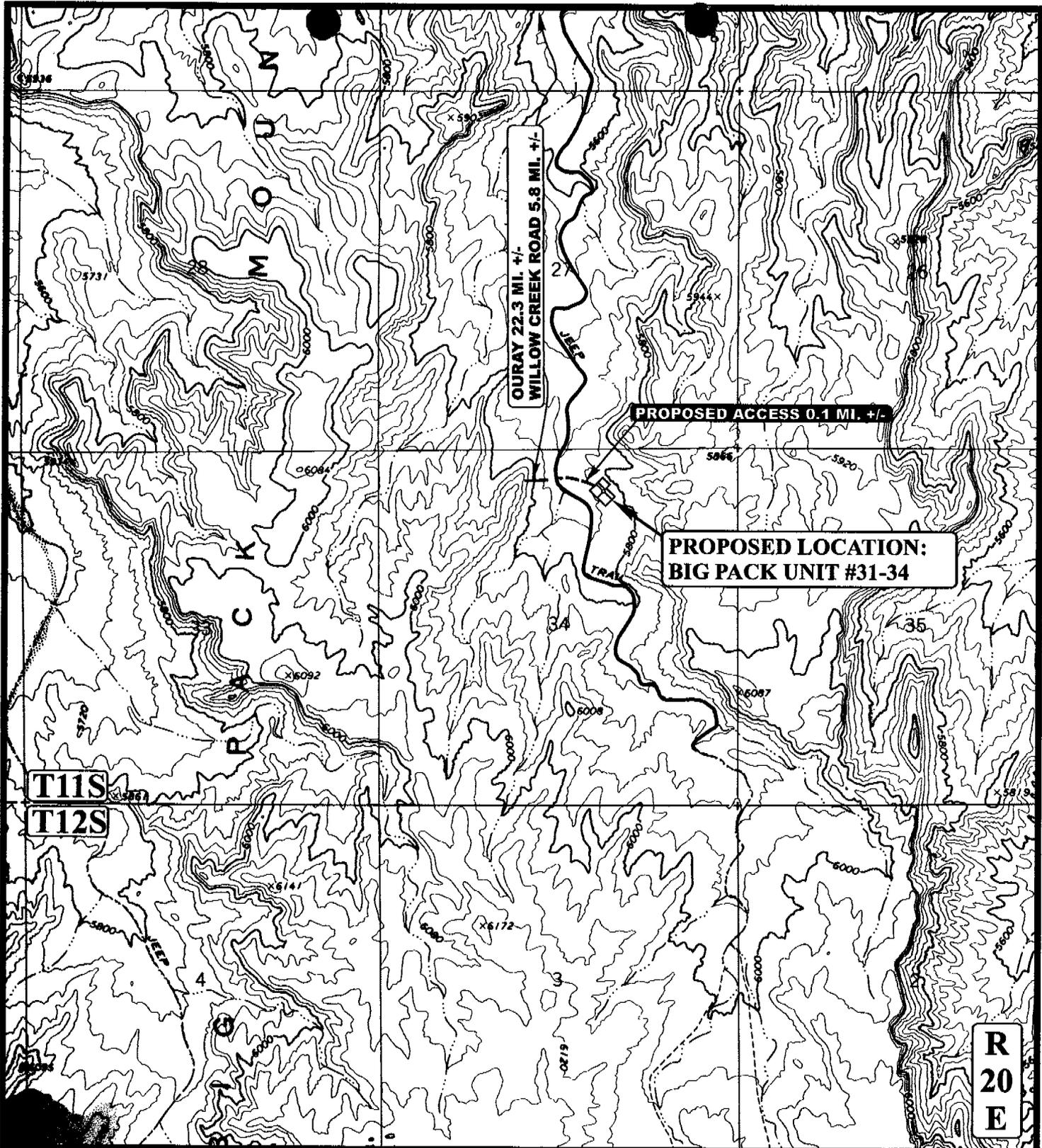


**TOPOGRAPHIC  
MAP**

<b>02</b>	<b>02</b>	<b>05</b>
MONTH	DAY	YEAR

SCALE: 1:100,000 DRAWN BY: C.H. REVISED: 00-00-00





**LEGEND:**

- EXISTING ROAD
- - - - - PROPOSED ACCESS ROAD

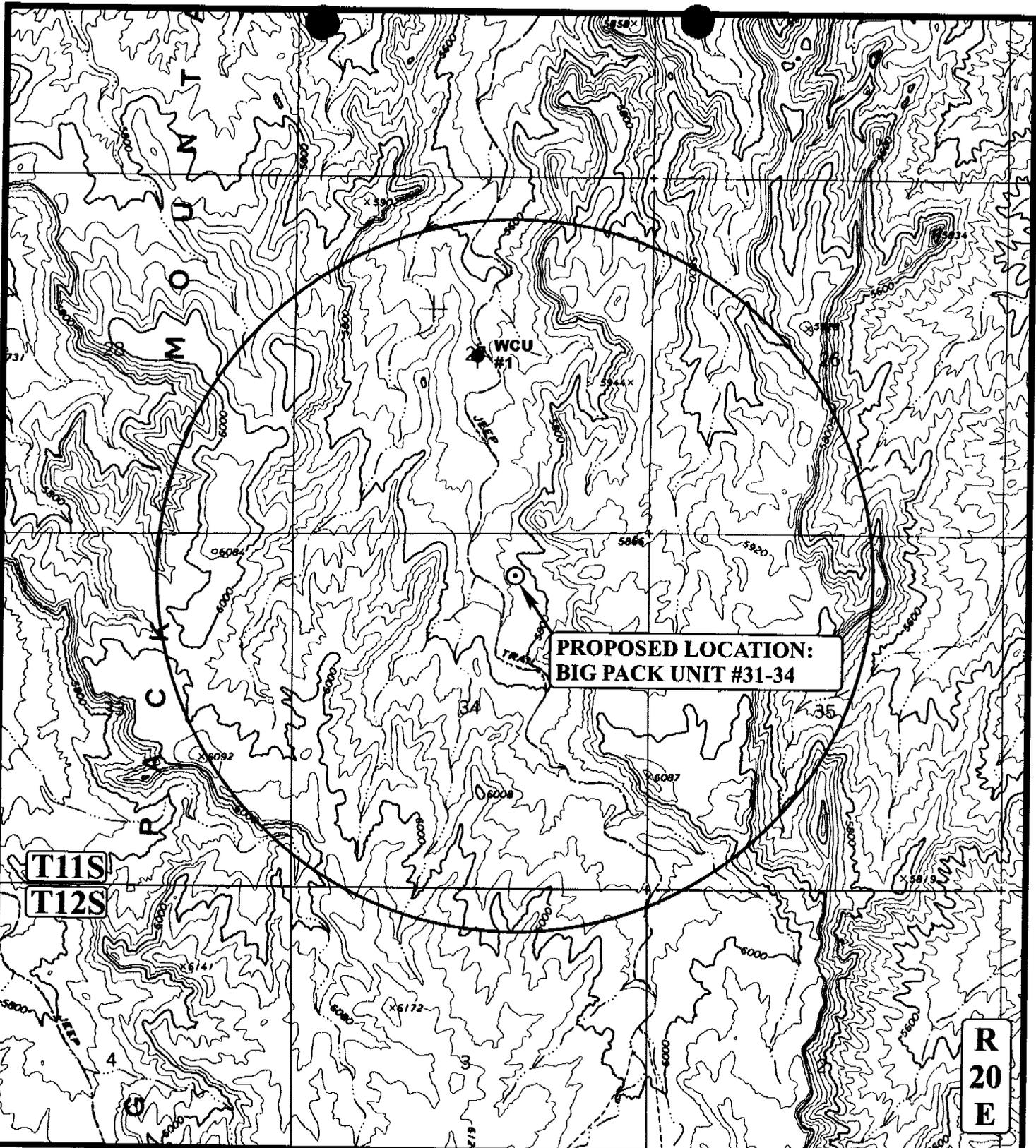


**MAK J ENERGY**  
**BIG PACK UNIT #31-34**  
**SECTION 34, T11S, R20E, S.L.B.&M.**  
**632' FNL 1972' FEL**

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

**TOPOGRAPHIC** 02 02 05  
**MAP** MONTH DAY YEAR  
 SCALE: 1" = 2000' DRAWN BY: C.H. REVISED: 00-00-00

**B**  
**TOPO**



**PROPOSED LOCATION:  
BIG PACK UNIT #31-34**

**T11S  
T12S**

**R  
20  
E**

**LEGEND:**

- ⊘ DISPOSAL WELLS
- PRODUCING WELLS
- ⬮ SHUT IN WELLS
- ⊕ WATER WELLS
- ⬮ ABANDONED WELLS
- ⬮ TEMPORARILY ABANDONED



**MAK J ENERGY**

**BIG PACK UNIT #31-34  
SECTION 34, T11S, R20E, S.L.B.&M.  
632' FNL 1972' FEL**



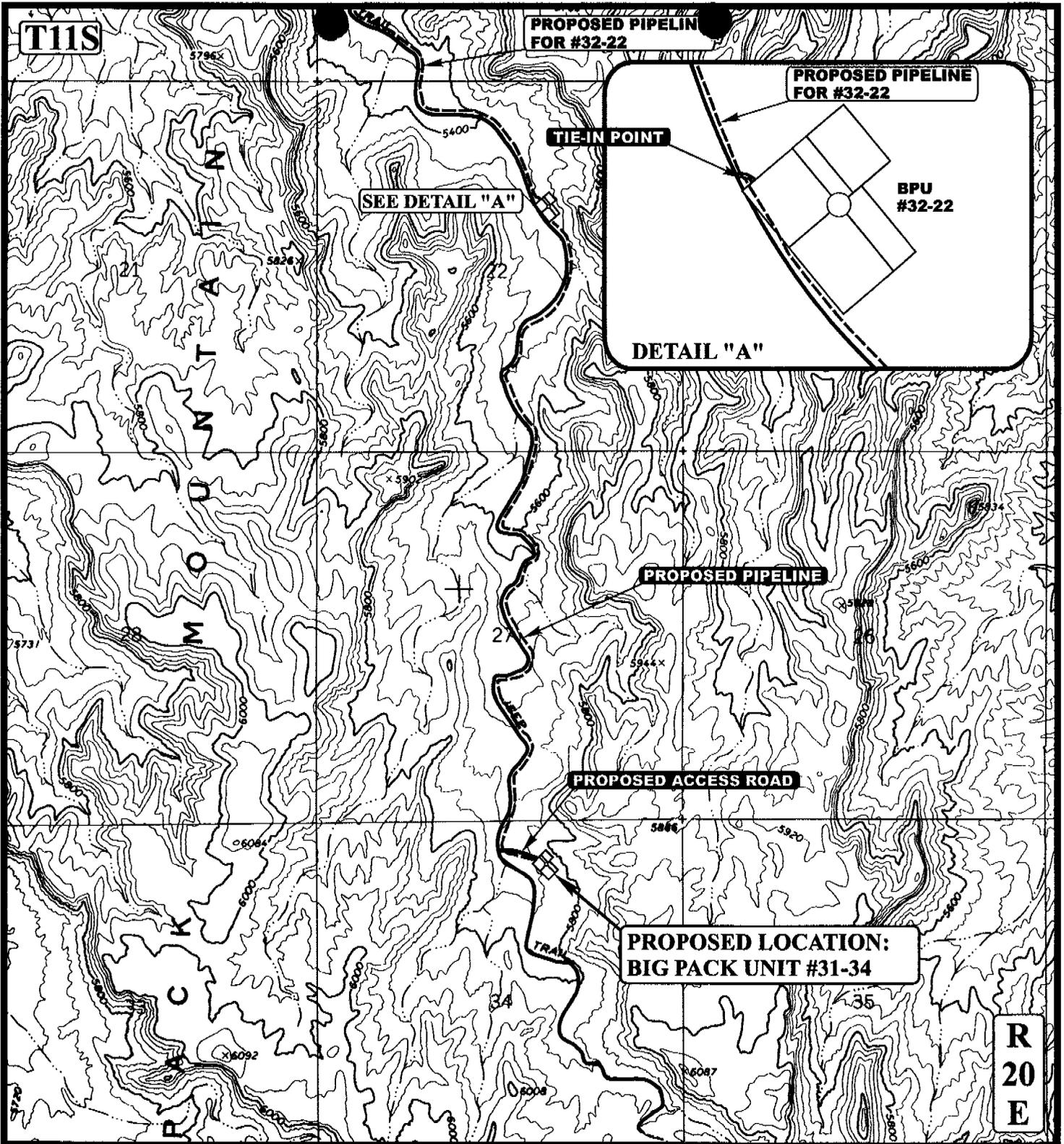
**Uintah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC  
MAP**

<b>02</b>	<b>02</b>	<b>05</b>
MONTH	DAY	YEAR

SCALE: 1" = 2000' DRAWN BY: C.H. REVISED: 00-00-00





APPROXIMATE TOTAL PIPELINE DISTANCE = 11,300' +/-

**LEGEND:**

-  PROPOSED ACCESS ROAD
-  EXISTING PIPELINE
-  PROPOSED PIPELINE



**MAK J ENERGY**

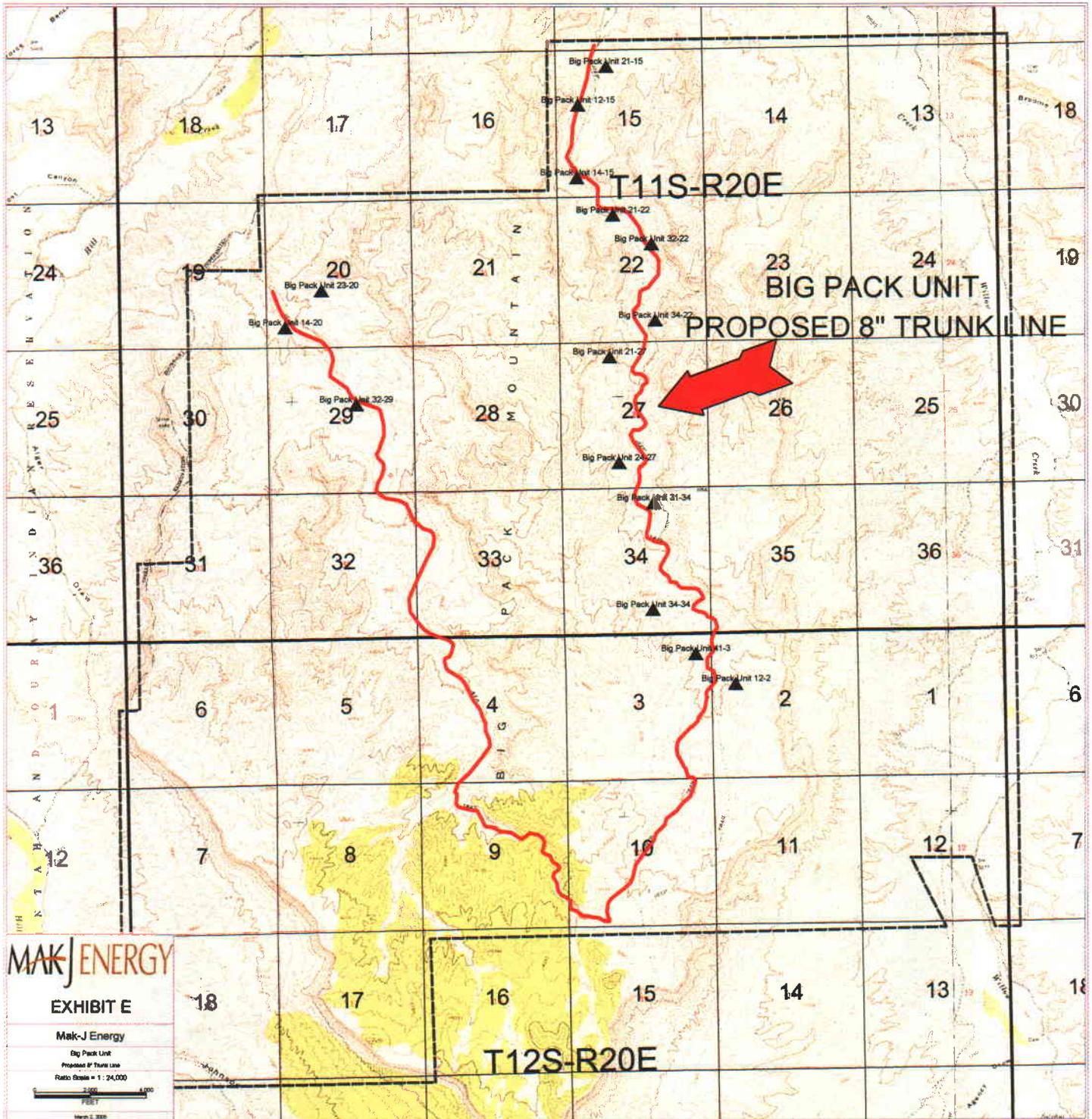
**BIG PACK UNIT #31-34**  
**SECTION 34, T11S, R20E, S.L.B.&M.**  
**632' FNL 1972' FEL**



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

**TOPOGRAPHIC** 02 02 05  
**MAP** MONTH DAY YEAR  
 SCALE: 1" = 2000' DRAWN BY: C.H. REVISED: 00-00-00





**MAK ENERGY**

**EXHIBIT E**

Mak-J Energy

Big Pack Unit

Proposed 8" Trunk Line

Ratio Scale = 1 : 24,000



March 1, 2020

**T12S-R20E**

**T11S-R20E**

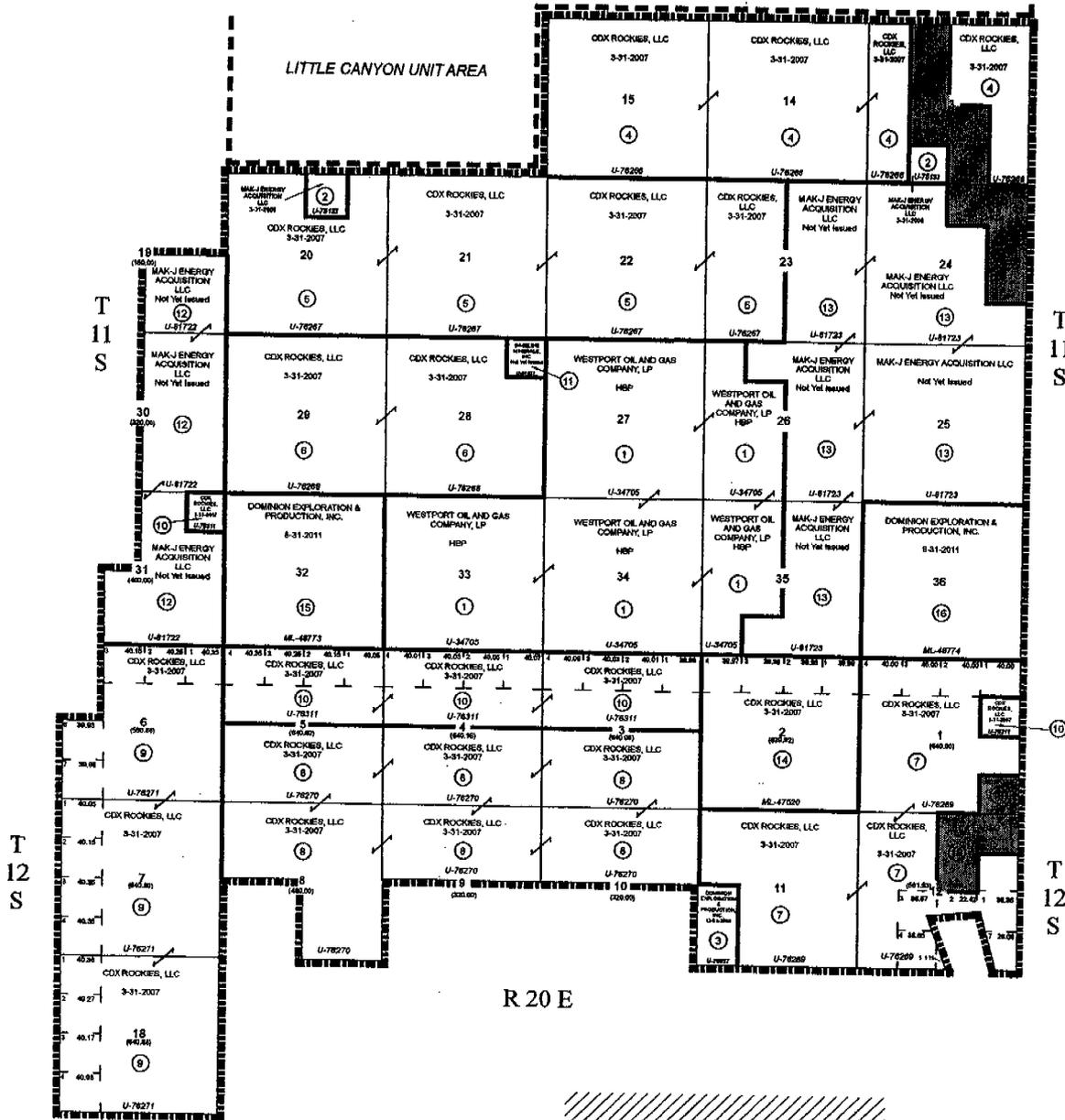
**BIG PACK UNIT**

**PROPOSED 8" TRUNK LINE**



R 20 E

LITTLE CANYON UNIT AREA



R 20 E

	ACREAGE	PERCENTAGE
FEDERAL LANDS	17,325.31	87.66%
STATE LANDS	1,918.92	9.71%
PATENTED LANDS	520.00	2.63%
<b>TOTALS</b>	<b>19,765.23</b>	<b>100.00%</b>

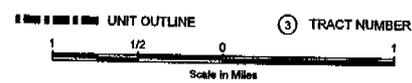


EXHIBIT "A"  
**BIG PACK UNIT AREA**  
 MOUNTAIN COUNTY, UTAH

NOTE: UNLESS OTHERWISE NOTED HEREIN THE SECTIONS ON THIS PLAT CONTAIN 640.00 ACRES

MAK-J ENERGY PARTNERS, LP  
 DENVER, COLORADO

**MAK J ENERGY**  
**BIG PACK UNIT #31-34**  
 LOCATED IN UINTAH COUNTY, UTAH  
 SECTION 34, T11S, R20E, S.L.B.&M.

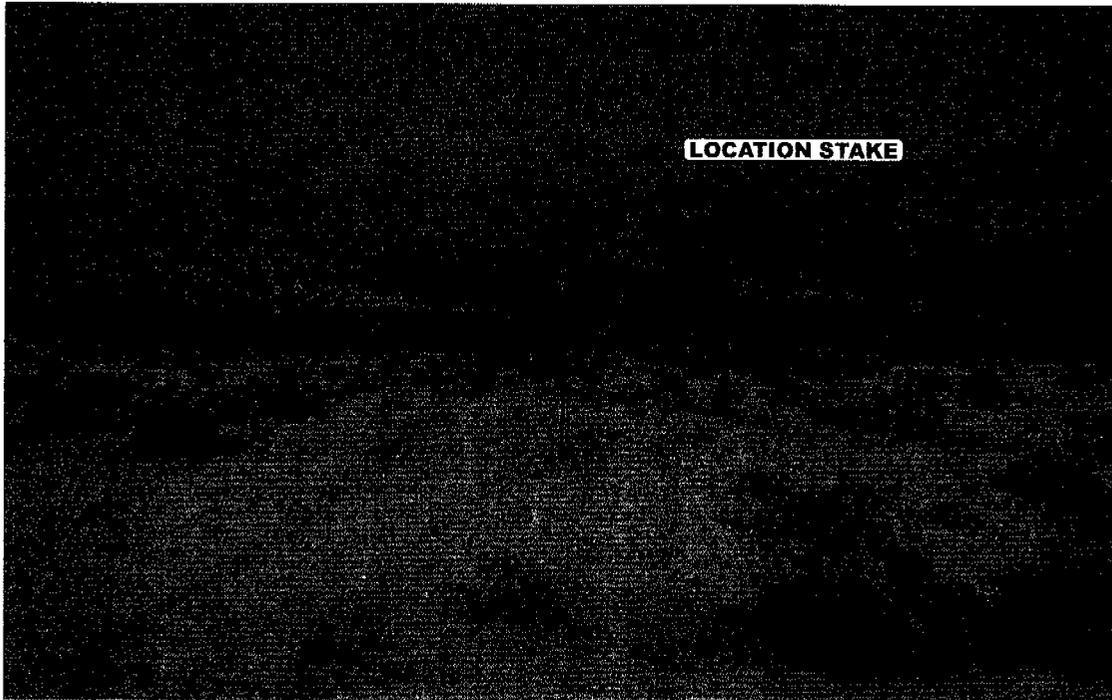


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: SOUTHWESTERLY

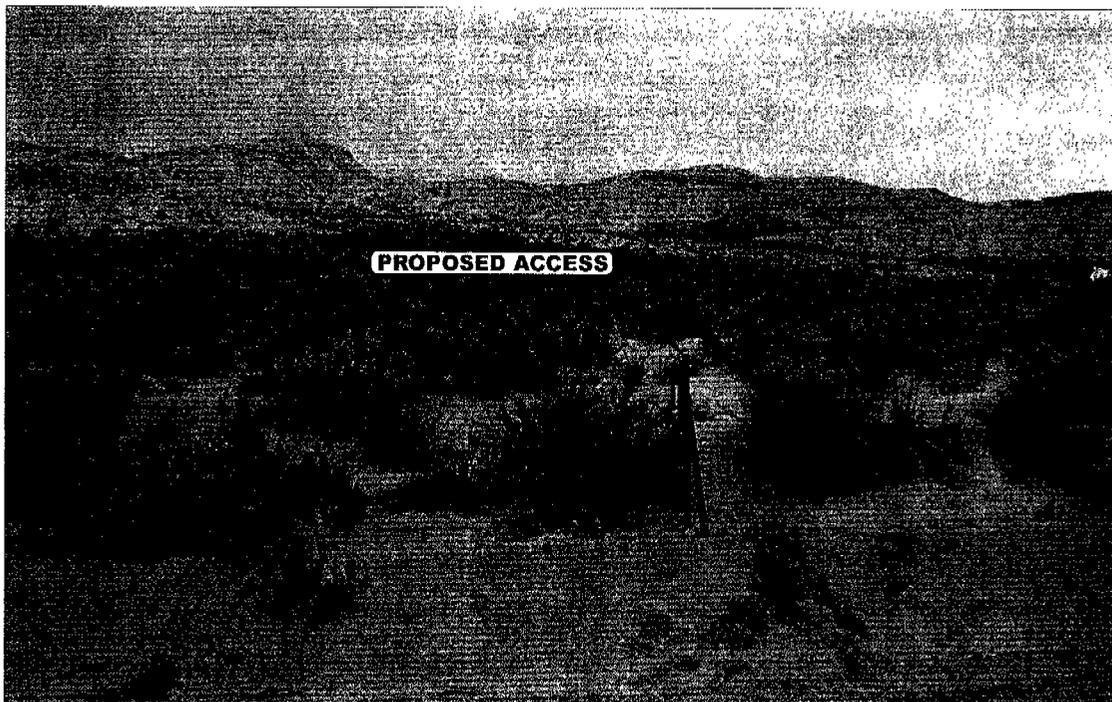


PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: EASTERLY



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

LOCATION PHOTOS	02	02	05	PHOTO
	MONTH	DAY	YEAR	
TAKEN BY: A.E.	DRAWN BY: C.H.		REVISED: 00-00-00	

001

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

FORM 3

AMENDED REPORT   
(highlight changes)

<b>APPLICATION FOR PERMIT TO DRILL</b>				5. MINERAL LEASE NO: UTU-34705	6. SURFACE: Federal
1A. TYPE OF WORK: DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>				7. IF INDIAN, ALLOTTEE OR TRIBE NAME: na	
B. TYPE OF WELL: OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER _____ SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>				8. UNIT or CA AGREEMENT NAME: na (proposed Big Pack Unit)	
2. NAME OF OPERATOR: Mak-J Energy Operating Company, LLC.				9. WELL NAME and NUMBER: Big Pack Unit #31-34	
3. ADDRESS OF OPERATOR: 370 17th St., Suite 2710 Denver Co 80202			PHONE NUMBER: (303) 339-5873	10. FIELD AND POOL, OR WILDCAT: <del>Unnamed</del> Wildcat	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 632' FNL & 1972' FEL <i>614498X 39.222554</i> AT PROPOSED PRODUCING ZONE: same as above <i>4408709Y 109.662159</i>				11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: nwne 34 11S 20E	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 22.3 miles from Ouray, Utah				12. COUNTY: Uintah	13. STATE: UTAH
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) 3312'		16. NUMBER OF ACRES IN LEASE: 2,480		17. NUMBER OF ACRES ASSIGNED TO THIS WELL: 40	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) 3326'		19. PROPOSED DEPTH: 9,100		20. BOND DESCRIPTION: BLM bond #UTB000160	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 5770' graded ground level		22. APPROXIMATE DATE WORK WILL START: 6/15/2005		23. ESTIMATED DURATION: 8 days	

24. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT			SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT			
12 1/4	9 5/8"	J55	36	2,200	65/35 Pozmix	200 sxs	3.82	11.0
					'G'	300 sxs	1.15	15.8
7 7/8	4 1/2	N80	11.6	9,100	Hi-Fill V	200 sxs	3.12	11.6
					50/50 Pozmix	1180 sxs	1.25	14.36

25. 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
- EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER
- COMPLETE DRILLING PLAN
- FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER

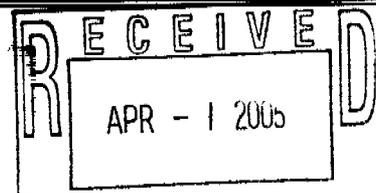
NAME (PLEASE PRINT) Todd S. McDonald TITLE Vice President  
 SIGNATURE *Todd S. McDonald* DATE 3/31/2005

(This space for State use only)

API NUMBER ASSIGNED: 43-047-36489

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 04-01-05  
By: [Signature]  
(See Instructions on Reverse Side)



DIV OF OIL, GAS & MINING

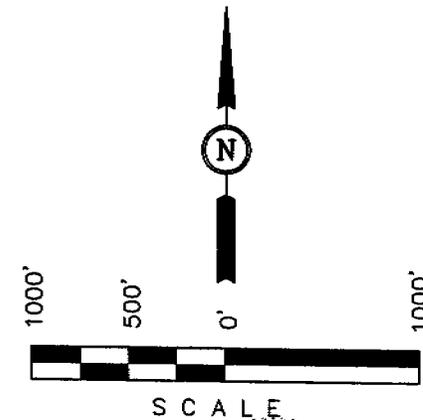
T11S, R20E, S.L.B.&M.

MAK J ENERGY

Well location, BIG PACK UNIT #31-34, located as shown in the NW 1/4 NE 1/4 of Section 34, T11S, R20E, S.L.B.&M. Uintah County, Utah.

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.



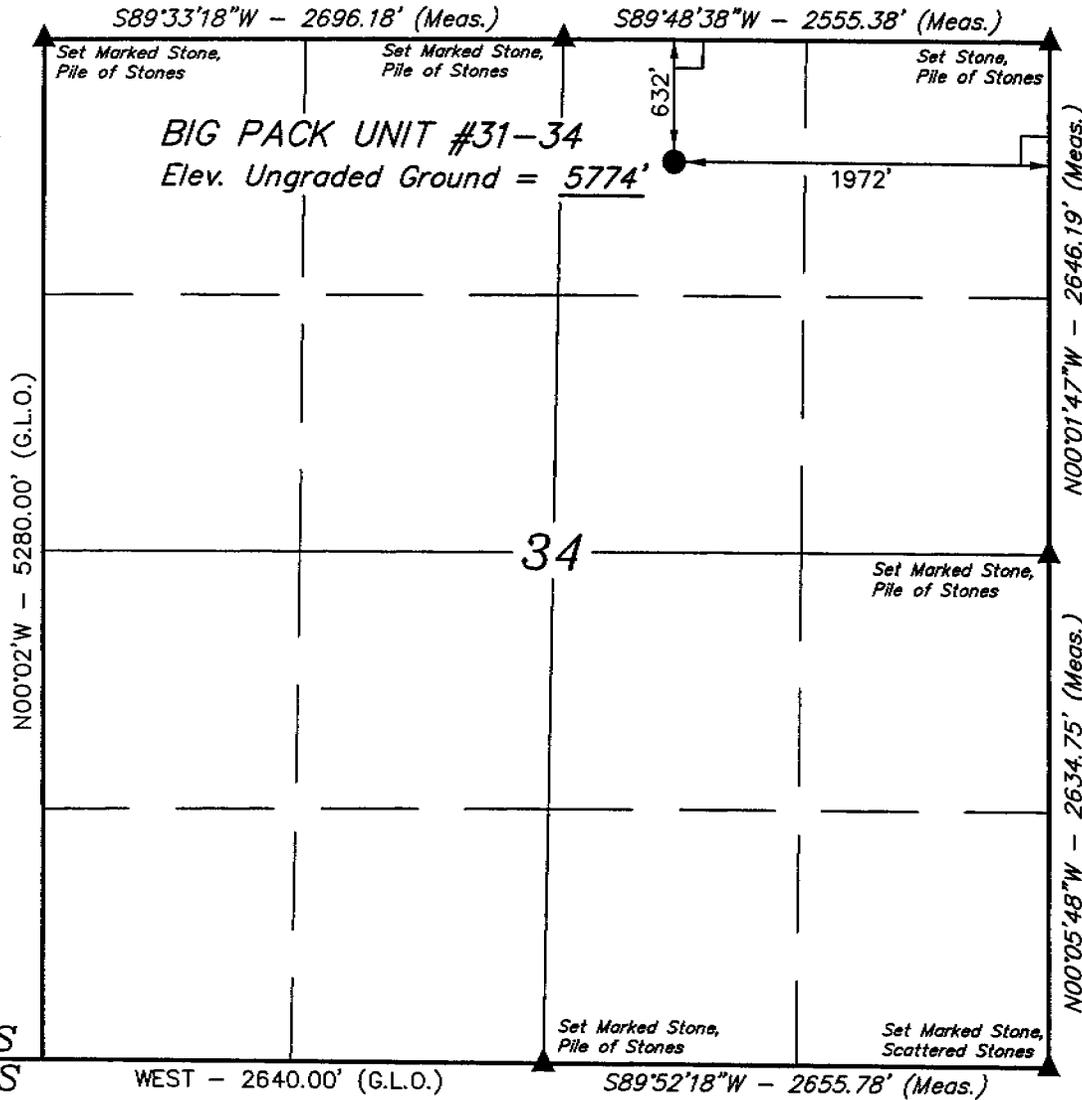
CERTIFICATE

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.

*John H. Hay*  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 161319  
 STATE OF UTAH

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

SCALE 1" = 1000'	DATE SURVEYED: 1-28-05	DATE DRAWN: 1-31-05
PARTY A.F. B.G. K.G.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE MAK J ENERGY	



BASIS OF BEARINGS

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

(NAD 83)  
 LATITUDE = 39°49'21.12" (39.822533)  
 LONGITUDE = 109°39'46.43" (109.662897)  
 (NAD 27)  
 LATITUDE = 39°49'21.24" (39.822567)  
 LONGITUDE = 109°39'43.94" (109.662206)

LEGEND:

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

T11S  
 T12S

WORKSHEET  
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 04/01/2005

API NO. ASSIGNED: 43-047-36489

WELL NAME: BIG PACK U 31-34  
OPERATOR: MAK-J ENERGY PARTNERS ( N2670 )  
CONTACT: TODD MCDONALD

PHONE NUMBER: 303-339-5873

PROPOSED LOCATION:

NWNE 34 110S 200E  
SURFACE: 0632 FNL 1972 FEL  
BOTTOM: 0632 FNL 1972 FEL  
UINTAH  
WILDCAT ( 1 )

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 1 - Federal  
LEASE NUMBER: UTU-34705  
SURFACE OWNER: 1 - Federal  
PROPOSED FORMATION: MNCS  
COALBED METHANE WELL? NO

LATITUDE: 39.82255  
LONGITUDE: -109.6622

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. UTB000160 )
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit  
(No. 43-8496 )
- RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )
- Fee Surf Agreement (Y/N)

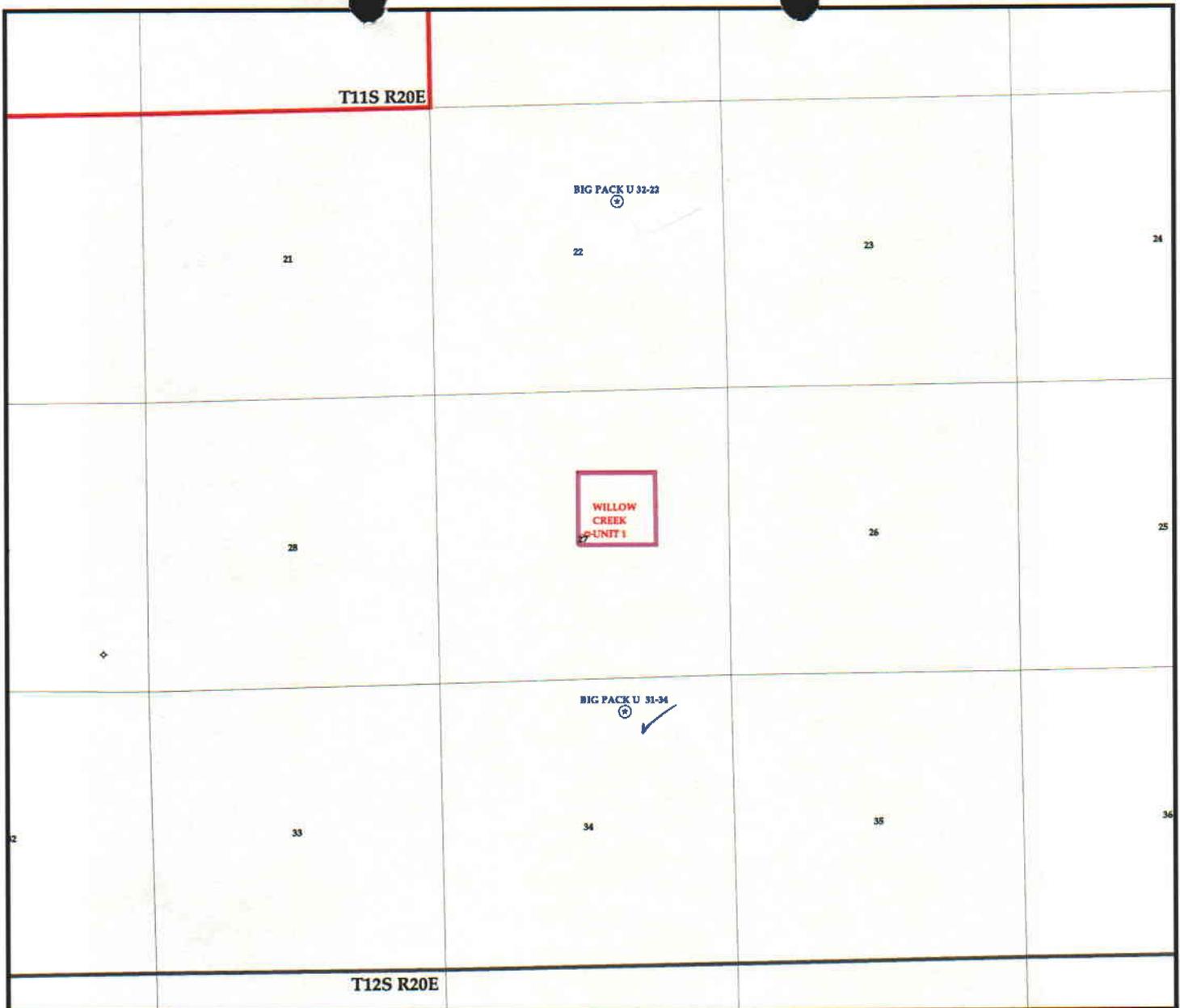
LOCATION AND SITING:

- R649-2-3.  
Unit \_\_\_\_\_
- R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells
- R649-3-3. Exception  
Drilling Unit  
Board Cause No: \_\_\_\_\_  
Eff Date: \_\_\_\_\_  
Siting: \_\_\_\_\_
- R649-3-11. Directional Drill

COMMENTS:

STIPULATIONS:

*1- Federal Approval  
2- Spacing Strip*



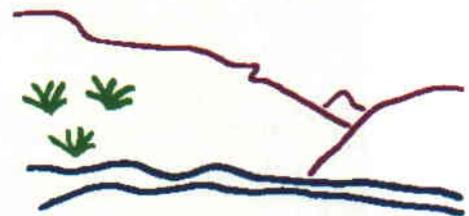
OPERATOR- MAK-J ENERGY OPER (N2670)

SEC. 22 & 34 T.11S R.20E

FIELD: WILDCAT (001)

COUNTY: UINTAH

SPACING: R649-3-2 / GENERAL SITING



Utah Oil Gas and Mining

Wells

- ⚡ GAS INJECTION
- ⊙ GAS STORAGE
- × LOCATION ABANDONED
- ⊕ NEW LOCATION
- ◇ PLUGGED & ABANDONED
- ⋄ PRODUCING GAS
- PRODUCING OIL
- ⊖ SHUT-IN GAS
- ➔ SHUT-IN OIL
- × TEMP. ABANDONED
- TEST WELL
- ▲ WATER INJECTION
- ◆ WATER SUPPLY
- ♠ WATER DISPOSAL

Units.shp

- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PENDING
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Fields.shp

- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED



PREPARED BY: DIANA WHITNEY  
DATE: 04-APRIL-2005



**State of Utah**

**Department of  
Natural Resources**

MICHAEL R. STYLER  
*Executive Director*

**Division of  
Oil, Gas & Mining**

MARY ANN WRIGHT  
*Acting Division Director*

JON M. HUNTSMAN, JR.  
*Governor*

GARY R. HERBERT  
*Lieutenant Governor*

April 4, 2005

Mak-J Energy Operating Company, LLC  
370 17th St., Suite 2710  
Denver, CO 80202

Re: Big Pack Unit 31-34 Well, 632' FNL, 1972' FEL, NW NE, Sec. 34,  
T. 11 South, R. 20 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

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. The API identification number assigned to this well is 43-047-36489.

Sincerely,

John R. Baza  
Associate Director

pab  
Enclosures

cc: Uintah County Assessor  
Bureau of Land Management, Vernal District Office

Operator: Mak-J Energy Operating Company, LLC  
Well Name & Number Big Pack Unit 31-34  
API Number: 43-047-36489  
Lease: UTU-34705

Location: NW NE                      Sec. 34                      T. 11 South                      R. 20 East

### Conditions of Approval

1. 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.

2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dan Jarvis at (801) 538-5338

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

5. 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.



CONDITIONS OF APPROVAL  
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Mak-J Energy Operating LLC.

Well Name & Number: Big Pack Unit 31-34

Lease Number: U-34705

API Number: 43-047-36489

Location: NWNE Sec. 34 T. 11S R. 20E

Agreement: Big Pack Unit

**CONDITIONS OF APPROVAL FOR DRILLING**

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

1. Estimated Depth at Which Oil, Gas, Water, or Other Mineral Bearing Zones are Expected to be Encountered

Report ALL water shows and water-bearing sands to John Mayers of this office **prior to setting the next casing string or requesting plugging orders**. Faxed copies of State of Utah form OGC-8-X are acceptable. If noticeable water flows are detected, submit samples to this office along with any water analyses conducted.

All usable water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

2. Pressure Control Equipment

Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to a BLM representative upon request.

If an air compressor is on location and is being utilized to provide air for the drilling medium while drilling, the special drilling requirements in Onshore Oil & Gas Order No. 2, regarding air or gas drilling shall be adhered to.

3. Casing Program and Auxiliary Equipment

The top 200' of cement behind the production casing must consist of neat Class G or equivalent.

All casing strings below the conductor shall be pressure tested to 0.22 psi/ft of casing string length or 1500 psi, whichever is greater but not to exceed 70% of the minimum internal yield.

4. Mud Program and Circulating Medium

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

5. Coring, Logging and Testing Program

Daily drilling and completion progress reports shall be submitted to this office on a weekly basis.

A cement bond log (CBL) will be run from the production casing shoe to top of the cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

**Please submit an electronic copy of all logs run on this well in LAS format. This submission will supersede the requirement for submittal of paper logs to the BLM. The cement bond log must be submitted in raster format (TIF, PDF or other).**

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the AO.

6. Notifications of Operations

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

Operator shall report production data to MMS pursuant to 30 CFR 216.5 using form MMS/3160.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which gas is first measured through permanent metering facilities, whichever first occurs.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Written notification of such must be submitted to this office not later than five (5) days following the date on which the well is placed on production.

Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

A schematic facilities diagram as required by 43 CFR 3162.7-5(d) shall be submitted to the appropriate Field Office within 60 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-5 (1).

No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergencies, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

#### 7. Other Information

All loading lines will be placed inside the berm surrounding the tank battery.

All off-lease storage, off-lease measurement, or commingling onlease or off-lease will have prior written approval from the AO.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries and tested for meter accuracy at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal Field Office. All meter measurement facilities will conform to Onshore Oil & Gas Order No. 4 for liquid hydrocarbons and Onshore Oil & Gas Order No. 5 for natural gas measurement.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

There will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."

If you fail to comply with this requirement in the manner and time allowed, you shall be liable for a civil penalty of up to \$10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii).

APD approval is valid for a period of one (1) year from the signature date. An extension period may be granted, if requested, prior to the expiration of the original approval period.

In the event after-hours approvals are necessary, you must contact one of the following individuals:

Kirk Fleetwood (435) 828-7874  
Petroleum Engineer

Michael Lee (435) 828-7875  
Petroleum Engineer

Matt Baker (435) 828-4470  
Petroleum Engineer

BLM FAX Machine (435) 781-4410

**SURFACE USE PROGRAM  
CONDITIONS OF APPROVAL (COAs)**

Within 90 calendar days of the approval date for this Application for Permit to Drill (APD), the operator/lessee shall submit to the Authorized Officer (AO), on Sundry Notice Form 3160-5, an Interim Surface Reclamation Plan for surface disturbance on well pads, access roads, and pipelines. At a minimum, this will include the reshaping of the pad to the original contour to the extent possible; the resspreading of the top soil up to the rig anchor points; and, the area reseeded using appropriate reclamation methods. The AO will provide written approval or concurrence within 30 calendar days of receipt.

The Willow Creek Trunkline will not be constructed.

## EPA'S LIST OF NONEXEMPT EXPLORATION AND PRODUCTION WASTES

While the following wastes are nonexempt, they are not necessarily hazardous.

Unused fracturing fluids or acids

Gas plant cooling tower cleaning wastes

Painting wastes

Oil and gas service company wastes, such as empty drums, drum rinsate, vacuum truck rinsate, sandblast media, painting wastes, spent solvents, spilled chemicals, and waste acids

Vacuum truck and drum rinsate from trucks and drums, transporting or containing nonexempt waste

Refinery wastes

Liquid and solid wastes generated by crude oil and tank bottom reclaimers

Used equipment lubrication oils

Waste compressor oil, filters, and blowdown

Used hydraulic fluids

Waste solvents

Waste in transportation pipeline-related pits

Caustic or acid cleaners

Boiler cleaning wastes

Boiler refractory bricks

Incinerator ash

Laboratory wastes

Sanitary wastes

Pesticide wastes

Radioactive tracer wastes

Drums, insulation and miscellaneous solids

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

FORM 6

**ENTITY ACTION FORM**

Operator: Mak-J Operating Co. LLC Operator Account Number: N 2670  
 Address: 370 17TH STREET, Suite 2710  
city Denver  
state CO zip 80202 Phone Number: (303) 339-5871

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304736489	Big Pack Unit 31-34		NWNE	34	11S	20E	Uintah
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<i>PA</i>	<i>99999</i>	<i>14961</i>	9/27/2005		<i>10/7/05</i>		
Comments: <i>MNCS</i>							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
Comments:							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
Comments:							

**ACTION CODES:**

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

Doris Maly

Name (Please Print)

Signature

Engineering Tech

Title

9/30/2005

Date

**RECEIVED**

OCT 03 2005

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

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>UTU-34705</b>
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.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: <b>NA</b>
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		7. UNIT or CA AGREEMENT NAME: <b>BIG PACK UNIT</b>
2. NAME OF OPERATOR: <b>MAK-J ENERGY OPERATING COMPANY, LLC</b>		8. WELL NAME and NUMBER: <b>BIG PACK UNIT #31-34</b>
3. ADDRESS OF OPERATOR: 370 17TH STREET, STE 271 <small>CITY</small> <b>DENVER</b> <small>STATE</small> <b>CO</b> <small>ZIP</small> <b>80202</b>		9. API NUMBER: <b>4304736489</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>632' FNL &amp; 1972' FEL</b>		10. FIELD AND POOL, OR WILDCAT: <b>WILDCAT</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>SWSE 34 11S 20E</b>		COUNTY: <b>UINTAH</b>
		STATE: <b>UTAH</b>

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: <u>Spud / surface</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<u>casing / cement</u>

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

The subject well spud at 1:00 PM, September 27, 2005. 12 1/4" hole was drilled from 40' KB to 2,430' KB.

Casing

Ran 56 joints, 9 5/8", 36 #/ft, J55, ST&C, new casing. Landed at 2,413' KB

Cement

Cemented with 220 sacks Premium Cement containing 16% gel, 10#/sx Gilsonite, 3% GR-3, 3% salt and 1/4#/sx Flocele followed by 200 sxs Premium Cement containing 2% CaCl and 1/4#/sx Flocele. Bumped plug, float held. Top out with 160 sxs Premium Cement containing 2% CaCl and 1/4#/sx Flocele. Hole stayed full with cement at the surface.

NAME (PLEASE PRINT) <u>TODD S. MCDONALD</u>	TITLE <u>VICE PRESIDENT</u>
SIGNATURE <u><i>Todd S. McDonald</i></u>	DATE <u>10/5/2005</u>

(This space for State use only)

**RECEIVED**  
**OCT 0 / 2005**

**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.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-34705
2. NAME OF OPERATOR: MAK-J ENERGY OPERATING COMPANY, LLC		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NA
3. ADDRESS OF OPERATOR: 370 17TH STREET, STE 271 DENVER CO 80202		7. UNIT or CA AGREEMENT NAME: BIG PACK UNIT
PHONE NUMBER: (303) 339-5871		8. WELL NAME and NUMBER: BIG PACK UNIT #31-34
4. LOCATION OF WELL FOOTAGES AT SURFACE: 632' FNL & 1972' FEL		9. API NUMBER: 4304736489
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSE 34 11S 20E		10. FIELD AND POOL, OR WILDCAT: WILDCAT
COUNTY: UINTAH		
STATE: UTAH		

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: <u>TD / production</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<u>casing / cement</u>

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

The subject well reached total depth of 9,005' KB on November 11, 2005.

**Casing**

Ran 212 joints, 4 1/2", 11.6 #/ft, P110, LT&C, new casing. Landed at 9,005' KB

**Cement**

Cemented with 380 sacks Hi-Fill Cement containing 16% gel, 10#/sx Gilsonite, 0.6% EX-1, 3% salt, 1/4#/sx Flocele, and 1% HR-7M (weight = 11#/gal, yield = 3.82 cu.ft./sx, 22.9 gal/sx mixing water) followed by 1150 sxs 50/50 Pozmix Premium AG containing 2% bentonite, 1/4#/sx Flocele, 0.6% Halad-322, 2% Microbond M, 5% salt, and 0.2% Super CBL (weight = 14.35 lb/gal, yield = 1.24 cu.ft. sx, 5.38 gals/sx mixing water). Bumped plug, float held.

NAME (PLEASE PRINT) <u>TODD S. MCDONALD</u>	TITLE <u>VICE PRESIDENT</u>
SIGNATURE <u><i>Todd S McDonald</i></u>	DATE <u>11/14/2005</u>

(This space for State use only)

**RECEIVED**

**NOV 17 2005**

**DIV. OF OIL, GAS & MINING**

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

<b>ROUTING</b>
1. DJJ
2. CDW

**X - Change of Operator (Well Sold)**

Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective:

1/25/2007

<b>FROM:</b> (Old Operator): N2670-Mak-J Energy Operating Company, LLC 370 17th St., Suite 2710 Denver, CO 80202 Phone: 1 (303) 339-5871	<b>TO:</b> ( New Operator): N1095-Dominion Exploration & Production, Inc 14000 Quail Springs Pkwy, Suite 600 Oklahoma City, OK 73134 Phone: 1-(405) 749-1300
<b>CA No.</b>	<b>Unit:</b>
<b>BIG PACK</b>	

**SEE ATTACHED FOR WELL LIST**

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 2/14/2007
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 2/14/2007
3. The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 2/27/2007
- 4a. Is the new operator registered in the State of Utah: Business Number: 852894-0143
- 5a. (R649-9-2)Waste Management Plan has been received on: IN PLACE
- 5b. Inspections of LA PA state/fee well sites complete on: n/a
- 5c. Reports current for Production/Disposition & Sundries on: 2/14/2007
6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM BIA
7. **Federal and Indian Units:**  
 The BLM or BIA has approved the successor of unit operator for wells listed on: not yet
8. **Federal and Indian Communization Agreements ("CA"):**  
 The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
9. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: n/a

**DATA ENTRY:**

1. Changes entered in the **Oil and Gas Database** on: 2/28/2007
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 2/28/2007
3. Bond information entered in RBDMS on: 2/28/2007
4. Fee/State wells attached to bond in RBDMS on: 2/28/2007
5. Injection Projects to new operator in RBDMS on: n/a
6. Receipt of Acceptance of Drilling Procedures for APD/New on: 2/14/2007

**BOND VERIFICATION:**

1. Federal well(s) covered by Bond Number: 76S630500330
2. Indian well(s) covered by Bond Number: n/a
- 3a. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number 76S63050600
- 3b. The **FORMER** operator has requested a release of liability from their bond on: n/a

**LEASE INTEREST OWNER NOTIFICATION:**

4. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

**COMMENTS:**

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

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>UTU-34705</b>
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.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: <b>NA</b>
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		7. UNIT or CA AGREEMENT NAME: <b>BIG PACK UNIT</b>
2. NAME OF OPERATOR: <b>MAK-J ENERGY OPERATING COMPANY, LLC</b>		8. WELL NAME and NUMBER: <b>BIG PACK UNIT #31-34</b>
3. ADDRESS OF OPERATOR: <b>370 17TH STREET, STE 271</b> CITY <b>DENVER</b> STATE <b>CO</b> ZIP <b>80202</b>		9. API NUMBER: <b>4304736489</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>632' FNL &amp; 1972' FEL</b>		10. FIELD AND POOL, OR WILDCAT: <b>WILDCAT</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>SWSE 34 11S 20E</b>		COUNTY: <b>UINTAH</b>
		STATE: <b>UTAH</b>

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>wait on completion</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

The subject well reached total depth of 9,005' KB on November 11, 2005.

212 joints, 4 1/2", 11.6 #/ft, P110, LT&C, new casing was landed at 9,005' KB and cemented in place with 1530 sacks of cement. Well completion operations have been suspended pending the outcome of an Environmental Assessment ('EA') on lands that encompass the Big Pack Unit. If the BLM determines that significant impacts would not result from the Proposed Action as outlined in the EA the Operator will commence with completion operations.

NAME (PLEASE PRINT) <u>TODD S. MCDONALD</u>	TITLE <u>VICE PRESIDENT</u>
SIGNATURE <u><i>Todd S. McDonald</i></u>	DATE <u>2/5/2007</u>

(This space for State use only)

RECEIVED

FEB 09 2007



MAK-J Energy Operating Company, LLC  
370 17th Street, Suite 2710  
Denver, Colorado 80202

303-468-0090 VOICE  
303-468-0092 FAX

February 5, 2007

Utah Division of Oil, Gas & Mining  
P O box 145801  
Salt Lake City, UT 84114-5801

Re: Notice Drilling Wells not reported as Completed

Dear Sirs:

Enclosed find two Sundry Notices for the wells referenced in the notice received Jan 31, 2007. Mak-J Energy sold these properties to Dominion Exploration & Production Inc with change of operator effective 1/25/2007. Since there has been so little time between the notice date and change of operator date, Mak-J Energy is responding to your notice.

I have copied Sundry Notices and a copy of your request for information on to the operations group at Dominion. If you have any further questions regarding this matter please contact Barb Lester at Dominion, phone number 405 749-5237.

Sincerely,

  
Doris Maly  
Sr Engineering Technician

Encl: 2  
CC: Dominion Exploration & Production Inc.

RECEIVED  
FEB 09 2007  
DIV. OF OIL, GAS & MINING

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

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>			5. LEASE DESIGNATION AND SERIAL NUMBER: <b>UTU-34705</b>
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.			6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
			7. UNIT or CA AGREEMENT NAME: <b>Big Pack Unit</b>
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____			8. WELL NAME and NUMBER: <b>Big Pack Unit 31-34</b>
2. NAME OF OPERATOR: <b>MAK-J ENERGY OPERATING COMPANY, LLC</b> <span style="float: right;"><i>N 2670</i></span>			9. API NUMBER: <b>4304736489</b>
3. ADDRESS OF OPERATOR: <b>370 17TH STREET</b> CITY <b>Denver</b> STATE <b>CO</b> ZIP <b>80202</b>		PHONE NUMBER: <b>(303) 339-5871</b>	10. FIELD AND POOL, OR WILDCAT: <b>Wildcat</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>632' FNL, &amp; 1972' FEL</b>			COUNTY: <b>Uintah</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NWNE 34 11S 20E S</b>			STATE: <b>UTAH</b>

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____  <input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
**Mak-J Energy Partners, Ltd has sold its interest in the above referenced well to Dominion Exploration & Production, Inc. effective: 01/25/2007.**

*David B. Oshel*  
 David B. Oshel, Attorney in Fact  
 Dominion Exploration & Production, Inc  
 14000 Quail Springs Parkway, Suite 600  
 Oklahoma City, OK 73134

*1-26-07*  
 Date  
*N1095*

Above referenced well is covered by Dominion's BLM Bond # 76563050 D330 and UT Bond # WY3322

NAME (PLEASE PRINT) <u>Steve Van Hook</u>	TITLE <u>Vice President</u>
SIGNATURE <i>Steve Van Hook</i>	DATE <u>1/25/2007</u>

(This space for State use only)

**APPROVED** 2128106  
*Earlene Russell*  
 Division of Oil, Gas and Mining  
 Earlene Russell, Engineering Technician

**RECEIVED**  
**FEB 14 2007**  
 DIV OF OIL, GAS & MINING

(See Instructions on Reverse Side)



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, UT 84145-0155



IN REPLY REFER TO  
3180  
UT-922

FEB 27 2007

Dominion Exploration & Production, Inc.  
Attn: Pam Robbins  
14000 Quail Springs Parkway, Suite 600  
Oklahoma City, OK 73134-2600

Re: Big Pack Unit (UTU-82244X)  
Uintah County, Utah

Gentlemen:

On February 20, 2007, we received an indenture dated January 25, 2007, whereby MAK-J Energy Operating Company, LLC resigned as Unit Operator and Dominion Exploration & Production, Inc. was designated as Successor Unit Operator for the Big Pack Unit, Uintah County, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective February 23, 2007. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under Big Pack Unit Agreement.

Your Wyoming nationwide oil and gas bond, No. WY3322 will be used to cover all Federal operations within the Big Pack Unit.

It is requested that you notify all interested parties of the change in unit operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

/s/ R. A. Mckee

R. A. Mckee  
Acting Chief, Branch of Fluid Minerals

Enclosure

RECEIVED  
MAR 01 2007  
DIV. OF OIL, GAS & MINING

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

**ROUTING**

1. DJJ
2. CDW

**X - Change of Operator (Well Sold)**

Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective:

7/1/2007

<b>FROM:</b> (Old Operator): N1095-Dominion Exploration & Production, Inc 14000 Quail Springs Parkway, Suite 600 Oklahoma City, OK 73134  Phone: 1 (405) 749-1300	<b>TO:</b> ( New Operator): N2615-XTO Energy Inc 810 Houston St Fort Worth, TX 76102  Phone: 1 (817) 870-2800
--	--

CA No.		Unit:		BIG PACK				
WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
SEE ATTACHED LIST								

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 8/6/2007
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 8/6/2007
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 8/6/2007
- a. Is the new operator registered in the State of Utah: \_\_\_\_\_ Business Number: 5655506-0143
- b. If **NO**, the operator was contacted on: \_\_\_\_\_
- a. (R649-9-2)Waste Management Plan has been received on: IN PLACE
- b. Inspections of LA PA state/fee well sites complete on: n/a
- c. Reports current for Production/Disposition & Sundries on: ok
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM BIA
- Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: \_\_\_\_\_
- Federal and Indian Communization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on: \_\_\_\_\_
- Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: \_\_\_\_\_

**DATA ENTRY:**

- Changes entered in the **Oil and Gas Database** on: 9/27/2007
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 9/27/2007
- Bond information entered in RBDMS on: 9/27/2007
- Fee/State wells attached to bond in RBDMS on: 9/27/2007
- Injection Projects to new operator in RBDMS on: 9/27/2007
- Receipt of Acceptance of Drilling Procedures for APD/New on: 9/27/2007

**BOND VERIFICATION:**

- Federal well(s) covered by Bond Number: UTB000138
- Indian well(s) covered by Bond Number: n/a
- a. (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number 104312762
- b. The **FORMER** operator has requested a release of liability from their bond on: 1/23/2008  
The Division sent response by letter on: \_\_\_\_\_

**LEASE INTEREST OWNER NOTIFICATION:**

- (R649-2-10) The **NEW** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: \_\_\_\_\_

**COMMENTS:**

**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:
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		8. WELL NAME and NUMBER: SEE ATTACHED
2. NAME OF OPERATOR: XTO Energy Inc. <i>N2615</i>		9. API NUMBER: SEE ATTACHED
3. ADDRESS OF OPERATOR: 810 Houston Street CITY Fort Worth STATE TX ZIP 76102		10. FIELD AND POOL, OR WILDCAT: Natural Buttes
4. LOCATION OF WELL FOOTAGES AT SURFACE: SEE ATTACHED		COUNTY: Uintah
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

Effective July 1, 2007, XTO Energy Inc. has purchased the wells listed on the attachment from:

Dominion Exploration & Production, Inc. *N1095*  
14000 Quail Springs Parkway, Suite 600  
Oklahoma City, OK 73134

*James D. Abercrombie* (405) 749-1300  
James D. Abercrombie  
Sr. Vice President, General Manager - Western Business Unit

Please be advised that XTO Energy Inc. is considered to be the operator on the attached list and is responsible under the terms and conditions of the lease for the operations conducted upon the lease lands. Bond coverage is provided by Nationwide BLM Bond #104312750 and Department of Natural Resources Bond #104312762.

NAME (PLEASE PRINT) <u>Edwin S. Ryan, Jr.</u>	TITLE <u>Sr. Vice President - Land Administration</u>
SIGNATURE <i>Edwin S. Ryan, Jr.</i>	DATE <u>7/31/2007</u>

(This space for State use only)

**APPROVED** 9127107  
*Earlene Russell*  
Division of Oil, Gas and Mining  
Earlene Russell, Engineering Technician

(See Instructions on Reverse Side)

**RECEIVED**  
**AUG 06 2007**  
DIV. OF OIL, GAS & MINING

(5/2000)

N1095 DOMINION E and P, INC. to N2615 XTO ENERGY, INC.

BIG PACK UNIT

api	well_name	qtr_qtr	sec	tpw	rng	lease_num	entity	Lease	well	stat
4304731775	WILLOW CREEK UNIT 1	SWNE	27	110S	200E	U-34705	10804	Federal	GW	S
4304736488	BIG PACK U 32-22	SWNE	22	110S	200E	UTU-76267	14929	Federal	GW	S
4304736489	BIG PACK U 31-34	NWNE	34	110S	200E	UTU-34705	14961	Federal	GW	OPS
4304736540	BIG PACK U 3-15H	NENW	15	110S	200E	UTU-76266	99999	Federal	GW	DRL
4304736555	BIG PACK U 41-3	NENE	03	120S	200E	UTU-76311	15030	Federal	GW	OPS



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, UT 84145-0155



IN REPLY REFER TO  
3180  
UT-922

Dominion Exploration & Production, Inc.  
Attn: James D. Abercrombie  
14000 Quail Springs Parkway, #600  
Oklahoma City, OK 73134-2600

August 10, 2007

Re: Big Pack Bend Unit  
Uintah County, Utah

Gentlemen:

On August 8, 2007, we received an indenture dated June 30, 2007, whereby Dominion Exploration & Production, Inc. resigned as Unit Operator and XTO Energy Inc. was designated as Successor Unit Operator for the Big Pack Unit, Uintah County, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective August 15, 2007. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under the Big Pack Unit Agreement.

Your statewide oil and gas bond No. UTB000138 will be used to cover all operations within the River Bend Unit.

It is requested that you notify all interested parties of the change in unit operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

*/s/ Greg J. Noble*

Greg J. Noble  
Acting Chief, Branch of Fluid Minerals

Enclosure

**RECEIVED**

**AUG 16 2007**

**DIV. OF OIL, GAS & MINING**

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

FORM 9

5. LEASE DESIGNATION AND SERIAL NUMBER:  
**UTU34705**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:  
**BIG PACK UNIT**

8. WELL NAME and NUMBER:  
**BIG PACK UNIT #31-34**

9. API NUMBER:  
**4304736489**

10. FIELD AND POOL, OR WILDCAT:  
**WILDCAT**

**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.

1. TYPE OF WELL  
OIL WELL  GAS WELL  OTHER \_\_\_\_\_

2. NAME OF OPERATOR:  
**XTO ENERGY INC.**

3. ADDRESS OF OPERATOR:  
**382 CR 3100** CITY **AZTEC** STATE **NM** ZIP **87410** PHONE NUMBER: **(505) 333-3100**

4. LOCATION OF WELL  
FOOTAGES AT SURFACE: **632' FNL & 1972' FEL** COUNTY: **UINTAH**  
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: **NWNE 34 11S 20E S** STATE: **UTAH**

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: <b>1/10/2008</b>	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <b>MONTHLY REPORTING</b>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
Attached is XTO Energy's monthly report for the period from 10/05/2007 to 01/10/2008.

NAME (PLEASE PRINT) **DOLENA JOHNSON** TITLE **OFFICE CLERK**  
SIGNATURE *Dolena Johnson* DATE **1/14/2008**

(This space for State use only)

**RECEIVED**  
**JAN 18 2008**  
DIV. OF OIL, GAS & MINING

**Farmington Well Workover Report**

<b>BIG PACK UNIT</b>	<b>Well # 31-34</b>	<b>NO WV</b>
----------------------	---------------------	--------------

**Objective:** Drill & Complete  
**First Report:** 10/03/2007  
**10/5/07** Cont padding & backfilling. Compl cleaning up ROW. Compl x-raying 8 - 4" welds. SDFN.  
**10/6/07** Compl padding & backfilling. Compl inst of pipeline markers. SDFWE.  
**10/9/07** SDWO PT sched for 10/10/07.  
**10/16/07** Inst new TotalFlow XFC 6413 #23108924, Ferguson ACP 5000 #003298, MDS radio 4710B #01637863, man, solar panel, csg. and tbg xmtr, latching vlv. tk lvl sw. electrical equipment Complete.  
**10/23/07** Compl PT on 4" .188W X42 steel gas line @ 840 for 8hrs. PT good.

**11/20/07** Contd rpt for AFE #716410 to D&C. MIRU WL. RIH w/GR/CCL/CBL. Tgd PBTD @ 8910' FS. Logged well fr 8900' - 1300'. Log indic TOC @ 1750'. POH & LD logging tls. RIH w/3-1/8" csg guns loaded w/Owen SDP-3125-411NT4, 21 gm chrgs. Perf stage 1 intv fr 8436' - 8441', 8545' - 8550' & 8607' - 8612', w/3 SPF (120 deg phasing, 0.35" EHD, 34.24" pene., 45 holes). POH & LD perf guns. RDMO WL. MIRU CTU & ac pmp trk. SICP 0 psig. Fill CT & tst surf equip to 5500 psig. TIH w/2" CT & displ well w/2% KCl wtr trtd w/biocide & sc inhibitor. W/EOT @ 8620' sptd 800 gals 7.5% HCL over perfs @ 8436' - 8612' ( ac fr/ 7400' - 8620' ). TOH w/CT. NU pmp trk & BD perfs @ 3100 psig. EIR of 3 BPM @ 2500 psig. ISIP 2296 psig, 5" SIP 2106 psig, 10" SIP 2068 psig & 15" SIP 2047 psig. Frac grad .71, SWI & RDMO CTU & pmp trk. 22 BLWTR. MIRU Temples rig #2 & Casedhole Solutions WL. RIH & Perf CG stg #1 perfs fr/8622' - 8627' w/ Titan Exp T, 3-1/8" csg gun, 22.7 gr. chrgs, 3 JSPF, 120 deg phasing, .36" EHD, 35.63" pene, 16 holes. POH & LD perf guns, RDMO WL. ND frac vlv, NU BOP. TIH w/Weatherford 4-1/2" HD pkr, SN & 260 jts of 2-3/8", 4.7#, J-55, EUE, 8rd tbg. Isolate perfs fr/8,607' - 8,627'. Set pkr @ 8573', EIR, rls pkr & sptd 750 gals of 15% HCL ac w/45 bio BS to the EOT. Set PKR and displ ac into perfs @ 4.6 bpm & 4,500 psig, fair ball action. ISIP 2,300 psig, 5" 2,084 psig, 10" 2,002 psig, 15" 1,950 psig. Frac grad 0.70. BD well, RDMO Halliburton. RU swb tls. BFL @ surface, S. 0 BO, 18 BLW, 3 runs, 1.5 hrs, FFL @ 3,100'. FTP 0 psig, SICP 0 psig. Fld smpls cln wtr. RD swb tls. SWI & SDFN. 47 BLWTR.

**11/21/07** SITP 0 psig, SICP 300 psig. W/castlegate perfs fr/8607' - 8627' isolated. RU & RIH w/swb tls. BFL 700' FS, S. tr of oil, 50 BLW, 17 runs, 10 hrs, FFL @ 8,000'. FTP 0 psig, SICP 300 psig. Fld smpls cln wtr w/a tr of oil. RD swb tls. SWI & SDFN. 0 BLWTR.

*Swab*      **Zone:** MV

**Event Desc:** Swab      **Top Interval:** 8,607      **Bottom Interval:** 8,627

	<u>Swab</u>	<u>Beg</u>	<u>BBLs</u>	
<u>Time</u>	<u>Runs</u>	<u>FL</u>	<u>Rec</u>	<u>Comments</u>
7:30:00 AM	1	700	8	BFL @ 700'. Cln wtr.
4:00:00 PM	15	6,693	41	Cln wtr tr oil.
5:00:00 PM	1	8,000	1	FFL @ 8,000'. Cln wtr w/tr oil.
<b>Ttl Bbls:</b>			<b>50</b>	

**11/22/07** SITP 0 psig, SICP 725 psig. W/castlegate perfs fr/8607' - 8627' isolated. RU & RIH w/swb tls. BFL 6,000' FS, S. TR BO, 14 BLW, 3 runs, 3 hrs, FFL @ 8,100'. FTP 0 psig, SICP 725 psig. Fld smpls, cln wtr w/a tr of oil. RD swb tls, rls PKR @ 8,573', TOH & LD 260 jts of 2-3/8" tbg. ND BOP & NU Frac vlv. RDMO rig and equip. SWI & SDFN. 0 BLWTR.

*Swab*      **Zone:** MV

**Event Desc:** Swab      **Top Interval:** 8,607      **Bottom Interval:** 8,627

	<u>Swab</u>	<u>Beg</u>	<u>BBLs</u>	
<u>Time</u>	<u>Runs</u>	<u>FL</u>	<u>Rec</u>	<u>Comments</u>
7:30:00 AM	1	6,000	10	BFL @ 6,000'. Cln wtr w/tr oil.
8:30:00 AM	1	7,800	3	Cln wtr w/tr oil.
9:30:00 AM	1	8,100	1	FFL @ 8,100'. Cln wtr w/tr oil.
<b>Ttl Bbls:</b>			<b>14</b>	

**11/27/07** SICP 615 psig. MIRU Halliburton frac crew, Stinger isolation tl, and Casedhole Solutions WL. Held safety mtg & PT all surface lines to 9,500 psig, held gd. RIH set CIBP @ 8,600', POH w/WL. W/ stg #2 MV perfs @ 8,436' - 8,441', & 8,545' - 8,550' already perforated w/ Titan Exp T, 3-1/8" csg gun, 22.7 gr., 3 jspf, 120 deg phasing, .36" hole, 35.63" pen, 32 holes. Started pad. SD due to Halliburton computer troubles & Stinger's WH isolation tl failed. RD WL, RD Halliburton, RD Stinger & repair tl. RU Stinger & tst tls to 2688 psig, gd tst. RU

Halliburton & ppd pad and most of the 1 ppg stg. Stinger's tl failed. Over flshd frac w/13 BW. Prep to ND WH inspect and caliper csg head bowl.

11/28/07 FCP 0 psig. F. well to the pit overnight, well would not die, unable to ND frac vlv to determine bowl size. Dress Stinger isolation tl to the next lgrg size. Held safety mtg & PT all surface lines to 9,500 psig, held gd. Frac'd MV stg #2perfs fr/8,436' - 8,550' dwn 4-1/2" csg w/36,833 slurry gals wtr, Delta-R 70Q foamed frac fld, 14.5# gel, 2% KCL wrt carrying 41,560# Premium White 20/40 sd. Max sd conc 4 ppg. Used 350 mscf N2. Screened out w/38,680 lbs of sd in formation & 2,880# sd in the well bore, lost cross link when Expeite was added to fld. Stinger's tl failed during flush @ 7,000 psig. BD csg to 3500 psig & RIH w/perf gun. Perf stg #3 w/Titan Exp T, 3-1/8" csg gun, 22.7 gr chgs., 3 JSPF, 120 deg phasing, 0.36" EHD, 35.63" pene, 41 holes, fr/7,922' - 7,924', 7,938' - 7,940', 7,953' - 7,955', 7,984' - 7,987' & 8,014' - 8,017'. POH w/WL to 6,000', RIH & tgd sd @ 7,950'. POH w/WL. SD operations to determine WH/Stinger and HES fld problems. 877 BLWTR. OWU to the pit on a 24/64" ck in an att to F sd out of the well bore.

11/29/07 SICIP 1,000 psig. OWU on 24/64" ck. F. 0 BO, 130 BLW, 12 hrs, FCP 1000 - 300 psig, 24/64" ck. Rets of sd, N2, wtr. 747 BLWTR. SWI & MIRU Casedhole Solutions WL. SICIP 1,700 psig. RIH & set tbg retractable BP @ 4600'. POH w/WL, RDMO WL. BD csg, ND frac vlv, insp & caliper csg bowl. Found inside profile of the "Catus" csg head having smaller I.D., resulting in Stinger's isolation tl not reaching the isolation void, resulting in tl failure. Redressed isolation tl to match head. NU frac vlv, SWI & SDFN.

Flow	Zone:	MV/WSTC			Top Interval:	7,922	Bottom Interval:	8,550
	Event Desc:	Flow Back						
			Avg	Choke	BBLS			
	Time	Press	Size	Rec	Comments			
	3:00:00 PM	1,000	24/64	15	OWU.			
	4:00:00 PM	0	0	0	Well died pulled ck.			
	5:00:00 PM	500	24/64	2	Unloaded well put 24/64 ck back.			
	6:00:00 PM	550	24/64	4	Lt sd.			
	7:00:00 PM	550	24/64	6	Lt sd.			
	8:00:00 PM	550	24/64	5	Slugs of fld.			
	9:00:00 PM	550	24/64	4	Med sd.			
	10:00:00 PM	300	24/64	10	Fld & N2.			
	11:00:00 PM	300	24/64	10	Lt sd.			
	12:00:00 AM	350	24/64	9	Fld & N2.			
	1:00:00 AM	350	24/64	8	Lt sd.			
	2:00:00 AM	300	24/64	12	Fld & N2.			
	3:00:00 AM	300	24/64	15	No sd.			
	4:00:00 AM	300	24/64	15	Fld & N2.			
	5:00:00 AM	300	24/64	15	No sd.			
				<b>Ttl Bbls:</b>	<b>130</b>			

12/1/07 SICIP 0 psig. MIRU Temple WS rig #2. TIH w/Weatherford ret hd & 140 jts of 2-3/8", 4.7#, J-55, 8rd, tbg. Estb circ & latch onto RBP @ 4600'. Rlsd RBP & TOH w/tbg, LD RBP. TIH w/3-7/8" rock tooth bit, bit sub & tbg to 8440'. Tgd no fill. TOH & LD 18 jts tbg to 7,850'. Spotd 25 gals of sc inh. Cont to TOH & LD 80 jts tbg. SWI & SDFN. 747 BLWTR.

12/2/07 SITP 250 psig, SICIP 400 psig. Bd csg & contrl tbg w/70 bbls trtd 2% KCl wtr. Cont to TOH & LD 2-3/8" tbg, bit sub & bit. ND BOP, NU frac vlv. RDMO Temple WS #2. SWI & SDFN. 817 BLWTR.

12/3/07 SICIP 1,700 psig. MIRU Casedhole Solutions RIH & ran a correlation GR/CCL log fr/5,300' - 5,800' FS. Cont RIH to set a CFP, tgd sd @ 7,963', unable to set plug. POH & RDMO WL. OWU to the pit on a 28/64" ck in an att to flw sd out of csg, well died. SWI & SDFN. 817 BLWTR.

12/4/07 SICIP 1,500 psig. BD csg. MIRU CUDD CTU. RIH & CO sd fill to 8,450', circ well cln. Spot sc inhib @ 7,850' & POH. RDMO CTU. MIRU Casedhole Solutions. RIH & set CFP @ 8,350'. POH & RDMO WL. SWI & SDFN. 917 BLWTR.

12/5/07 SICIP 1400 psig. MIRU HES, Held safety mtg & PT all surface lines to 9500 psig. Held gd. W/stg #3 MV perfs @ 7,922' - 8,017' already perforated w/Titan Exp T, 3-1/8" csg gun, 22.7 gr.chrgs, 3 JSPF, 120 deg phasing, 0.36" EHD, 35.63" pene, 41 holes, fr/7,922' - 7,924', 7,938' - 7,940', 7,953' - 7,955', 7,984' - 7,987' & 8,014' - 8,017'. Ppd 800 gallons of 7-1/2% HCL & perform step rate tst. Att to frac Stg #3. HES unable to produce a quality cross linked fld. Over flushed 10,700# of 1 ppg sd, ppd 674 bbls of 2% KCL wtr & 120,000 mscf N2. Re-Frac'd MV stg #3 perfs fr/7,922' - 8,017' dwn 4-1/2" csg w/37,359 (65,667 gals ttl) gals wtr, 70Q Delta-R foamed frac fld, 18# gel, 2% KCl wtr carrying 142,800# (total 153,500#) Premium White 20/40 sd. Max sd conc 4 ppg, ISIP 4,274 psig, 5" SIP 2,840 psig, used 2,226.017 mscf N2, 2481(stg 3) BLWTR. SWI & SDFN. 3398 BLWTR ttl.

12/6/07 SICIP 2,900 psig. W/HES, Stinger, & Casedhole Solutions already rigged up. RIH & set CFP @ 7,905', PT plg to 6,000 psig, gd tst. Perf stg #4 perfs W/Titan Exp T, 3-1/8" csg gun, 22.7 gr.chrgs, 3 JSPF, 120 deg phasing, .36" EHD, 35.63" pene, 38 holes, fr/7,810' - 7,818' & 7,869' - 7,873'. POH w/WL. Frac'd MV stg #4 perfs fr/7,810' - 7,873' dwn 4-1/2" csg w/17,196 gals wtr, 70Q Delta-R foamed frac fld, 19# gel, 2% KCl wtr carrying 50,500# Premium White 20/40 sd. Max sd conc 4 ppg, ISIP 3,889 psig, 5" 3,632 psig. Used 653,000 mscf N2, 2,891 BLW. RIH w/CFP @ 7,710', PT plg to 6,000 psig, gd tst. Perf stg #5 W/Titan Exp T, 3-1/8" csg gun, 22.7 gr.chrgs, 3 JSPF, 120 deg phasing, .36" EHD, 35.63" pene, 13 holes fr/7,358' - 7,362'. POH w/WL. Frac'd MV stg #5perfs fr/7,358' - 7,362' dwn 4-1/2" csg w/15,770 gals wtr, 70Q Delta-R foamed frac fld, 17.5# gel, 2% KCl wtr carrying 39,960# Premium White 20/40 sd. Max sd conc 4 ppg, ISIP N/A psig, 5" N/A psig, 3,267 BLWTR (corrected). Screened out w/39,560# of sd in formation & 400# in csg. Suspect fracture closed when 70 qual N2 was cut during fish, resulting in low flw rate while ppg ac. OWU to the pit tk on a 28/64 ck in an att to flw sd out of csg overnight.

12/7/07 FCP 950 psig, 28/64" ck, recd 810 bbls in 9 hrs. Rets N2, wtr & sd. W/HES & Casedhole Solutions already rigged up, RU Stinger WH Svc. RIH & set CFP @ 7,330', PT plg to 6,000 psig, gd tst. Perf stg #6 perfs W/Titan Exp T, 3-1/8" csg gun, 22.7 gr. chrgs, 3 JSPF, 120 deg phasing, 0.36" EHD, 35.63" pene, 36 holes, fr/7,230' - 7,234', 7,238' - 7,242', 7,290' - 7,293'. POH w/WL. Frac'd MV stg #6 perfs fr/7,230' - 7,293' dwn 4-1/2" csg w/14,955 gals wtr, 70Q Delta-R foamed frac fld, 13.6# gel, 2% KCl wtr carrying 32,500 lbs Premium White 20/40 sd. Max sd conc 4 ppg, ISIP 2,891 psig, 5" 2,842 psig. Used 689,076 mscf N2, 3623 BLWTR. RIH & set 4-1/2" CFP @ 7,210', PT plg to 6,000 psig, gd tst. Perf stg #7 W/Titan Exp T, 3-1/8" csg gun, 22.7 gr. chrgs, 3 JSPF, 120 deg phasing, 0.36" EHD, 35.63" pene, 50 holes, fr/7,134' - 7,137', 7,144' - 7,147', 7,156' - 7,159', 7,164' - 7,167' & 7,182' - 7,185'. POH w/WL. Frac'd MV stg #7 perfs fr/7,134' - 7,185' dwn 4-1/2" csg w/22,092 gals wtr, 70Q Delta-R foamed frac fld, 2% KCl wtr carrying 98,800 lbs Premium White 20/40 sd. Max sd conc 4 ppg, ISIP 3,739 psig, 5" SIP 3,506 psig. Used 1,568,237 mscf N2, 4,149 BLWTR. RIH & set 4-1/2" CFP @ 7,120', PT plg to 6,000 psig, gd tst. Perf stg #8 perfs W/Titan Exp T, 3-1/8" csg gun, 22.7 gr. chrgs, 3 JSPF, 120 deg phasing, 0.36" EHD, 35.63" pene, 19 holes, fr/7,040' - 7,046'. POH w/WL. Frac'd MV stg #8 perfs fr/7,049' - 7,046' dwn 4-1/2" csg w/20,870 gas wtr, 70Q Delta-R foamed frac fld, 13.6# gel, 2% KCl wtr carrying 74,900 lbs Premium White 20/40 sd. Max sd conc 4 ppg, ISIP 4,971 psig, 5" 4,696 psig, used 1,187,335 mscf N2, 3,836 BLWTR. SWI & SDFN.

12/8/07 SICIP 3,500 psig. W/HES, Stinger & Casedhole Solutions WL already rigged up. RIH & set CFP @ 6,990', PT plg to 6,000 psig, gd tst. Perf stg #9 perfs W/Titan Exp T, 3-1/8" csg gun, 22.7 gr.chrgs, 3 JSPF, 120 deg phasing, .36" EHD, 35.63" pene, 30 holes, fr/6,804' - 6,807', 6,818' - 6,821' & 6,842' - 6,845'. POH w/WL. Frac'd MV stg #9 perfs fr/6,804' - 6,845' dwn 4-1/2" csg w/14,128 gals wtr, 70Q Delta-R foamed frac fld, 13.6# gel, 2% KCl wtr carrying 60,300 lbs Premium White 20/40 sd. Max sd conc 4 ppg, ISIP 5,140 psig, 5" 4,700 psig, used 1,059,776 mscf N2, 4,172 BLWTR. RIH & set CBP @ 6,300', PT plg to 6,000 psig, gd tst. Perf stg #10 W/Titan Exp T, 3-1/8" csg gun, 22.7 gr.chrgs, 3 JSPF, 120 deg phasing, .36" EHD, 35.63" pene, 25 holes, fr/5,708' - 5,716'. POH w/WL. Frac'd UB stg #10 perfs fr/5,708' - 5,716' dwn 4-1/2" csg w/9,578 gals wtr, 70Q Delta-R foamed frac fld, 2% KCl wtr carrying 36,300 lbs Premium White 20/40 sd. Max sd conc 4 ppg, ISIP 3,720 psig, 5" SIP 3,590 psig, used 502,667 mscf N2, 4,400 BLWTR ttl. SWI for 8 hrs. RDMO frac equip & WL. SICIP 3500 psig. OWU on 12/64" ck. F. 0 BO, 83 BLW, 9 hrs, FCP 3500 - 900 psig, 12/64" ck. Rets of sd, gas, wtr. BLWTR from Zone #10. 143 bbls.

Flow	Zone:	MV/WSTC			Top Interval:	7,040	Bottom Interval:	8,627
	Event Desc:	Flow Back						
			Avg	Choke	BBLS			
	Time	Press	Size	Rec	Comments			
	8:00:00 PM	3,500	12/64	0	Lt sd.			
	9:00:00 PM	2,400	12/64	11	Lt sd.			
	10:00:00 PM	2,000	12/64	9	Lt sd.			
	11:00:00 PM	1,900	12/64	10	Lt sd.			
	12:00:00 AM	1,800	12/64	8	Lt sd.			
	1:00:00 AM	1,700	12/64	10	Lt sd.			
	2:00:00 AM	1,500	12/64	9	Lt sd.			
	3:00:00 AM	1,300	12/64	8	Lt sd.			
	4:00:00 AM	1,100	12/64	9	Lt sd.			
	5:00:00 AM	900	12/64	9	Lt sd.			
				Ttl Bbls:	83			

12/9/07 W/perfs @ 5,708' - 5,716' isolated. FCP 900 psig. F. 0 BO, 146 BLW, 9 hrs, FCP 900 - 150 psig, 12/64" ck. Rets of sd, gas, wtr. BLWTR from Zone #10. 0 bbls.

Flow	Zone:	MV/WSTC			Top Interval:	7,040	Bottom Interval:	8,627
	Event Desc:	Flow Back						
			Avg	Choke	BBLS			
	Time	Press	Size	Rec	Comments			
	6:00:00 AM	900	12/64	8	Tr sd, gas & fld.			
	7:00:00 AM	700	12/64	9	Tr sd, gas & fld.			
	8:00:00 AM	500	12/64	8	Tr sd, gas & fld.			
	9:00:00 AM	450	18/64	12	Tr sd, gas & fld.			
	10:00:00 AM	300	18/64	14	Tr sd, gas & fld.			

11:00:00 AM	200	18/64	8	Tr sd, gas & fld.
12:00:00 PM	190	18/64	6	Tr sd, gas & fld.
1:00:00 PM	190	18/64	6	Tr sd, gas & fld.
2:00:00 PM	190	18/64	7	Tr sd, gas & fld.
3:00:00 PM	150	18/64	6	Tr sd, gas & fld.
4:00:00 PM	150	18/64	5	Tr sd, gas & fld.
5:00:00 PM	150	18/64	4	Tr sd, gas & fld.
6:00:00 PM	150	18/64	5	Tr sd, gas & fld.
7:00:00 PM	150	18/64	3	Tr sd, gas & fld.
8:00:00 PM	150	18/64	4	Tr sd, gas & fld.
9:00:00 PM	150	18/64	6	Tr sd, gas & fld.
10:00:00 PM	150	18/64	5	Tr sd, gas & fld.
11:00:00 PM	150	18/64	5	Tr sd, gas & fld.
12:00:00 AM	150	18/64	4	Tr sd, gas & fld.
1:00:00 AM	150	18/64	5	Tr sd, gas & fld.
2:00:00 AM	150	18/64	5	Tr sd, gas & fld.
3:00:00 AM	150	18/64	4	Tr sd, gas & fld.
4:00:00 AM	150	18/64	3	Tr sd, gas & fld.
5:00:00 AM	150	18/64	4	Tr sd, gas & fld.

Ttl Bbls: 146

12/10/07 W/perfs @ 5,708' - 5,716' isolated. FCP 150 psig. F. 0 BO, 69 BLW, 24 hrs, FCP 150 - 50 psig, 18/64" ck. Rets of sd, gas, wtr. BLWTR from Zone #10. 0 bbls.

Flow Zone: MV/WSTC  
 Event Desc: Flow Back Top Interval: 7,040 Bottom Interval: 8,627

Time	Avg Press	Choke Size	BBLS Rec	Comments
6:00:00 AM	150	18/64	4	Tr sd, gas & fld.
7:00:00 AM	150	18/64	6	Tr sd, gas & fld.
8:00:00 AM	150	18/64	4	Tr sd, gas & fld.
9:00:00 AM	150	18/64	3	Tr sd, gas & fld.
10:00:00 AM	150	18/64	3	Tr sd, gas & fld.
11:00:00 AM	150	18/64	2	Tr sd, gas & fld.
12:00:00 PM	150	18/64	3	Tr sd, gas & fld.
1:00:00 PM	150	18/64	4	Tr sd, gas & fld.
2:00:00 PM	150	18/64	3	Tr sd, gas & fld.
3:00:00 PM	150	18/64	4	Tr sd, gas & fld.
4:00:00 PM	150	18/64	3	Tr sd, gas & fld.
5:00:00 PM	150	18/64	4	Tr sd, gas & fld.
6:00:00 PM	150	18/64	3	Tr sd, gas & fld.
7:00:00 PM	100	18/64	2	Tr sd, gas & fld.
8:00:00 PM	100	18/64	2	Tr sd, gas & fld.
9:00:00 PM	100	18/64	3	Tr sd, gas & fld.
10:00:00 PM	100	18/64	2	Tr sd, gas & fld.
11:00:00 PM	100	18/64	4	Tr sd, gas & fld.
12:00:00 AM	100	18/64	2	Tr sd, gas & fld.
1:00:00 AM	100	18/64	3	Tr sd, gas & fld.
2:00:00 AM	100	18/64	3	Tr sd, gas & fld.
3:00:00 AM	100	18/64	2	Tr sd, gas & fld.
4:00:00 AM	50	18/64	0	Tr sd, gas & fld.
5:00:00 AM	50	18/64	0	Tr sd, gas & fld.

Ttl Bbls: 69

12/12/07 W/perfs @ 5,708' - 5,716' isolated. FCP 100 psig. F. 0 BO, 0 BLW, 24 hrs, FCP 100 - 100 psig, 18/64" ck. Rets of gas. BLWTR from Zone #10. 0 bbls.

Flow	Zone:	MV/WSTC			Top Interval: 7,040	Bottom Interval: 8,627
	Event Desc:	Flow Back				
			Avg	Choke	BBLS	
	Time	Press	Size	Rec	Comments	
	6:00:00 AM	100	18/64	0	Gas.	
	7:00:00 AM	100	18/64	0	Gas.	
	8:00:00 AM	75	18/64	0	Gas.	
	9:00:00 AM	75	18/64	0	Gas.	
	10:00:00 AM	75	18/64	0	Gas.	
	11:00:00 AM	75	18/64	0	Gas.	
	12:00:00 PM	75	18/64	0	Gas.	
	1:00:00 PM	75	18/64	0	Gas.	
	2:00:00 PM	75	18/64	0	Gas.	
	3:00:00 PM	0	18/64	0	SI to measure flow line.	
	4:00:00 PM	0	18/64	0	SI to measure flow line.	
	5:00:00 PM	100	18/64	0	Gas.	
	6:00:00 PM	100	18/64	0	Gas.	
	7:00:00 PM	100	18/64	0	Gas.	
	8:00:00 PM	100	18/64	0	Gas.	
	9:00:00 PM	100	18/64	0	Gas.	
	10:00:00 PM	100	18/64	0	Gas.	
	11:00:00 PM	100	18/64	0	Gas.	
	12:00:00 AM	100	18/64	0	Gas.	
	1:00:00 AM	100	18/64	0	Gas.	
	2:00:00 AM	100	18/64	0	Gas.	
	3:00:00 AM	100	18/64	0	Gas.	
	4:00:00 AM	100	18/64	0	Gas.	
	5:00:00 AM	100	18/64	0	Gas.	
			<b>Ttl Bbls:</b>	0		

12/13/07 W/UB perfs @ 5,708' - 5,716' isolated. FCP 100 psig. F. 0 BO, 0 BLW, 24 hrs, FCP 100 - 75 psig, 18/64" ck. Rets of gas. 0 BLWTR fr/Zone #10. Std MI equip to loc. Std pre-fabrication of 3" mtr run. Compl 2 - 4" welds. SDFN.

Flow	Zone:	MV/WSTC			Top Interval: 7,040	Bottom Interval: 8,627
	Event Desc:	Flow Back				
			Avg	Choke	BBLS	
	Time	Press	Size	Rec	Comments	
	6:00:00 AM	100	18/64	0	Gas.	
	7:00:00 AM	100	18/64	0	Gas.	
	8:00:00 AM	100	18/64	0	Gas.	
	9:00:00 AM	100	18/64	0	Gas.	
	10:00:00 AM	100	18/64	0	Gas.	
	11:00:00 AM	100	18/64	0	Gas.	
	12:00:00 PM	100	18/64	0	Gas.	
	1:00:00 PM	100	18/64	0	Gas.	
	2:00:00 PM	100	18/64	0	Gas.	
	3:00:00 PM	100	18/64	0	Gas.	
	4:00:00 PM	100	18/64	0	Gas.	
	5:00:00 PM	100	18/64	0	Gas.	
	6:00:00 PM	100	18/64	0	Gas.	
	7:00:00 PM	100	18/64	0	Gas.	
	8:00:00 PM	100	18/64	0	Gas.	
	9:00:00 PM	100	18/64	0	Gas.	
	10:00:00 PM	100	18/64	0	Gas.	
	11:00:00 PM	75	18/64	0	Gas.	

12:00:00 AM	75	18/64	0	Gas.
1:00:00 AM	75	18/64	0	Gas.
2:00:00 AM	75	18/64	0	Gas.
3:00:00 AM	75	18/64	0	Gas.
4:00:00 AM	75	18/64	0	Gas.
5:00:00 AM	75	18/64	0	Gas.
<b>Ttl Bbls:</b>			0	

12/14/07 W/perfs @ 5,708' - 5,716' isolated. FCP 75 psig. F. 0 BO, 0 BLW, 24 hrs, FCP 75 - 75 psig, 18/64" ck. Rets of gas. 0 BLWTR fr/Zone #10. Compl MI equip to loc. Compl pre-fabrication of 3" mtr run. Compl 7 - 4" welds, 1 - 2" welds. Compl tie in of 4" .188W X42 FB welded gas line to 3" mtr run. SDWO x-ray sched for 12/14/07. Zone #9 MV 6,804' - 6,845'. Zone #10 UB 5,708' - 5,716'.

Flow **Zone:** MV  
**Event Desc:** FLOW BACK **Top Interval:** 5,708 **Bottom Interval:** 5,716

<u>Time</u>	<u>Avg</u>	<u>Choke</u>	<u>BBLs</u>	
	<u>Press</u>	<u>Size</u>	<u>Rec</u>	<u>Comments</u>
12:00:00 AM	0		0	
6:00:00 AM	75	18/64	0	Gas.
7:00:00 AM	75	18/64	0	Gas.
8:00:00 AM	75	18/64	0	Gas.
9:00:00 AM	75	18/64	0	Gas.
10:00:00 AM	75	18/64	0	Gas.
11:00:00 AM	75	18/64	0	Gas.
12:00:00 PM	75	18/64	0	Gas.
1:00:00 PM	75	18/64	0	Gas.
2:00:00 PM	75	18/64	0	Gas.
3:00:00 PM	75	18/64	0	Gas.
4:00:00 PM	75	18/64	0	Gas.
5:00:00 PM	75	18/64	0	Gas.
6:00:00 PM	100	18/64	0	Gas.
7:00:00 PM	100	18/64	0	Gas.
8:00:00 PM	100	18/64	0	Gas.
9:00:00 PM	100	18/64	0	Gas.
10:00:00 PM	100	18/64	0	Gas.
11:00:00 PM	100	18/64	0	Gas.
12:00:00 AM	100	18/64	0	Gas.
1:00:00 AM	100	18/64	0	Gas.
2:00:00 AM	75	18/64	0	Gas.
3:00:00 AM	75	18/64	0	Gas.
4:00:00 AM	75	18/64	0	Gas.
5:00:00 AM	75	18/64	0	Gas.
<b>Ttl Bbls:</b>			0	

12/15/07 W/ UB perfs @ 5,708' - 5,716' isolated. FCP 75 psig. F. 0 BO, 0 BLW, 24 hrs, FCP 75 - 75 psig, 18/64" ck. Rets of gas. 0 BLWTR fr/Zone #10. Compl x-ray 1-2", 1-3", & 7-4".

Flow **Zone:** MV/WSTC  
**Event Desc:** Flow Back **Top Interval:** 7,040 **Bottom Interval:** 8,627

<u>Time</u>	<u>Avg</u>	<u>Choke</u>	<u>BBLs</u>	
	<u>Press</u>	<u>Size</u>	<u>Rec</u>	<u>Comments</u>
6:00:00 AM	75	18/64	0	Gas.
7:00:00 AM	75	18/64	0	Gas.
8:00:00 AM	75	18/64	0	Gas.
9:00:00 AM	75	18/64	0	Gas.
10:00:00 AM	75	18/64	0	Gas.
11:00:00 AM	75	18/64	0	Gas.

12:00:00 PM	75	18/64	0	Gas.
1:00:00 PM	75	18/64	0	Gas.
2:00:00 PM	75	18/64	0	Gas.
3:00:00 PM	75	18/64	0	Gas.
4:00:00 PM	75	18/64	0	Gas.
5:00:00 PM	75	18/64	0	Gas.
6:00:00 PM	75	18/64	0	Gas.
7:00:00 PM	75	18/64	0	Gas.
8:00:00 PM	75	18/64	0	Gas.
9:00:00 PM	75	18/64	0	Gas.
10:00:00 PM	75	18/64	0	Gas.
11:00:00 PM	75	18/64	0	Gas.
12:00:00 AM	75	18/64	0	Gas.
1:00:00 AM	75	18/64	0	Gas.
2:00:00 AM	75	18/64	0	Gas.
3:00:00 AM	75	18/64	0	Gas.
4:00:00 AM	75	18/64	0	Gas.
5:00:00 AM	75	18/64	0	Gas.
<b>Ttl Bbls:</b>			0	

12/16/07 W/UB perfs @ 5,708' - 5,716' isolated. FCP 0 psig. F. 0 BO, 0 BLW, 24 hrs, FCP 75 - 0 psig, 18/64" ck. Rets of gas. 0 BLWTR fr/Zone #10.

Flow **Zone:** MV/WSTC  
**Event Desc:** Flow Back **Top Interval:** 5,708 **Bottom Interval:** 5,716

<u>Time</u>	<u>Avg Press</u>	<u>Choke Size</u>	<u>BBLs Rec</u>	<u>Comments</u>
6:00:00 AM	75	18/64	0	Gas.
7:00:00 AM	75	18/64	0	Gas.
8:00:00 AM	75	18/64	0	Gas.
9:00:00 AM	75	18/64	0	Gas.
10:00:00 AM	75	18/64	0	Gas.
11:00:00 AM	75	18/64	0	Gas.
12:00:00 PM	75	18/64	0	Gas.
1:00:00 PM	75	18/64	0	Gas.
2:00:00 PM	0	18/64	0	Well died.
<b>Ttl Bbls:</b>			0	

12/17/07 W/UB perfs @ 5,708' - 5,716' isolated. FCP 0 psig. F. 0 BO, 0 BLW, 9 hrs, FCP 0 psig, 18/64" ck. SWI. No rets. 0 BLWTR fr/Zone #10. SWI & rlsD F. bk crew.

Flow **Zone:** MV/WSTC  
**Event Desc:** Flow Back **Top Interval:** 5,708 **Bottom Interval:** 5,716

<u>Time</u>	<u>Avg Press</u>	<u>Choke Size</u>	<u>BBLs Rec</u>	<u>Comments</u>
6:00:00 AM	0	18/64	0	
7:00:00 AM	0	18/64	0	
8:00:00 AM	0	18/64	0	
9:00:00 AM	0	18/64	0	
10:00:00 AM	0	18/64	0	
11:00:00 AM	0	18/64	0	
12:00:00 PM	0	18/64	0	
1:00:00 PM	0	18/64	0	
2:00:00 PM	0	2	0	
3:00:00 PM	0	2	0	
4:00:00 PM	0	2	0	
5:00:00 PM	0	2	0	SWI. Relsd Flow Back crew.

Ttl Bbls: 0

12/18/07 W/UB perms @ 5,708' - 5,716' isolated. SICP 0 psig. MIRU Temples WS #2. ND Frac vlv, NU BOP. TIH w/3-7/8" rock tooth bit, SN, SS, BRS & 170 jts of 2-3/8", 4.7#, J-55, 8rd tbg. SWI w/EOT @ 5,613'.

12/19/07 SITP 0 psig, SICP 0 psig. Estb circion, DO CBP @ 6,300' & CFP'S @ 6,990', 7,120', 7,210', 7,330', 7,710' & 7,905'. Cont to TIH. Tgd CIBP @ 8,350'. Circ well cln. LD 3 jts tbg. Ld 258 jts, 4.7#, J-55, 8rd, EUE tbg on hgr w/EOT @ 8,519', SN @ 8,517'. UB perms fr/5,708' - 5,716'. MV perms fr/6,804' - 8,550'. (CG perms fr/8,607' - 8,627' covered w/CIBP @ 8,350'). ND BOP & NU WH. SICP 1,150 psig. SWI & SDFN. Ttl wtr pmpd today 390 bbls, Ttl wtr rec today 420 bbls. 4142 BLWTR.

12/20/07 SITP 0 psig, SICP 2,400 psig. RU swb tls & RIH w/1.901" tbg broach to SN @ 8,517'. POH LD & swb tls. Dropd ball & ppd off bit, SS & 1/2 of BRS @ 1,700 psig. Tbg flowed bk 1 BW & died. RU swb tls & started to RIH. Well KO flwg. F. well for 30" on a 2" ck, recd 30 BLW. OWU to the flow bk tk on a 18/64 ck. RDMO rig and equip. Ttl wtr ppd today 12 bbls, ttl wtr recd today 30 bbls. FTP 1200 psig, SICP 2550 psig. F. 0 BO, 264 BLW, 18 hrs, FTP 1200 - 1100 psig, SICP 2550-2400 psig, 18/64" ck. Rets of lt sd, wtr, & gas. 3860 BLWTR.

Flow	Zone:	MV/WSTC				Top Interval:	5,708	Bottom Interval:	8,550
	Event Desc:	Flow Back							
			Avg	Choke	BBLS				
	Time	Press	Size	Rec	Comments				
	11:00:00 AM	2,550	18/64	10	Tbg 1,200 psig. Fld & lt sd.				
	12:00:00 PM	2,550	18/64	16	Tbg 1,200 psig. Fld & lt sd.				
	1:00:00 PM	2,550	18/64	14	Tbg 1,200 psig. Fld & lt sd.				
	2:00:00 PM	2,550	18/64	12	Tbg 1,200 psig. Fld & lt sd.				
	3:00:00 PM	2,550	18/64	16	Tbg 1,200 psig. Fld & lt sd.				
	4:00:00 PM	2,550	18/64	15	Tbg 1,200 psig. Fld & lt sd.				
	5:00:00 PM	2,550	18/64	15	Tbg 1,200 psig. Fld & lt sd.				
	6:00:00 PM	2,550	18/64	16	Tbg 1,200 psig. Fld & lt sd.				
	7:00:00 PM	2,500	18/64	14	Tbg 1,150 psig. Fld & lt sd.				
	8:00:00 PM	2,500	18/64	15	Tbg 1,150 psig. Fld & lt sd.				
	9:00:00 PM	2,500	18/64	13	Tbg 1,150 psig. Fld & lt sd.				
	10:00:00 PM	2,500	18/64	16	Tbg 1,150 psig. Fld & lt sd.				
	11:00:00 PM	2,500	18/64	10	Tbg 1,150 psig. Fld & lt sd.				
	12:00:00 AM	2,500	18/64	12	Tbg 1,150 psig. Fld & lt sd.				
	1:00:00 AM	2,400	18/64	14	Tbg 1,150 psig. Fld & lt sd.				
	2:00:00 AM	2,400	18/64	13	Tbg 1,100 psig. Fld & lt sd.				
	3:00:00 AM	2,400	18/64	16	Tbg 1,100 psig. Fld & lt sd.				
	4:00:00 AM	2,400	18/64	13	Tbg 1,100 psig. Fld & lt sd.				
	5:00:00 AM	2,400	18/64	14	Tbg 1,100 psig. Fld & lt sd.				
				<b>Ttl Bbls:</b>	264				

12/21/07 FTP 1100 psig, SICP 2300 psig. F. 0 BO, 326 BLW, 18 hrs, FTP 1100 - 1000 psig, SICP 2300-2150 psig, 18/64" ck. Rets of lt sd, wtr, & gas. 3534 BLWTR.

Flow	Zone:	MV/WSTC				Top Interval:	5,708	Bottom Interval:	8,550
	Event Desc:	Flow Back							
			Avg	Choke	BBLS				
	Time	Press	Size	Rec	Comments				
	6:00:00 AM	2,300	18/64	12	Tbg 1,100 psig. Fld & lt sd.				
	7:00:00 AM	2,300	18/64	17	Tbg 1,100 psig. Fld & lt sd.				
	8:00:00 AM	2,300	18/64	16	Tbg 1,100 psig. Fld & lt sd.				
	9:00:00 AM	2,300	18/64	15	Tbg 1,100 psig. Fld & lt sd.				
	10:00:00 AM	0	18/64	0	Tbg 0 psig. Hook up WH.				
	11:00:00 AM	0	18/64	0	Tbg 0 psig. Hook up WH.				
	12:00:00 PM	2,350	18/64	14	Tbg 1,150 psig. Fld & lt sd.				
	1:00:00 PM	2,350	18/64	16	Tbg 1,150 psig. Fld & lt sd.				
	2:00:00 PM	2,350	18/64	16	Tbg 1,100 psig. Fld & lt sd.				
	3:00:00 PM	2,350	18/64	14	Tbg 1,100 psig. Fld & lt sd.				

4:00:00 PM	2,250	18/64	16	Tbg 1,100 psig. Fld & lt sd.
5:00:00 PM	2,250	18/64	17	Tbg 1,100 psig. Fld & lt sd.
6:00:00 PM	2,250	18/64	14	Tbg 1,050 psig. Fld & lt sd.
7:00:00 PM	2,250	18/64	16	Tbg 1,050 psig. Fld & lt sd.
8:00:00 PM	2,250	18/64	13	Tbg 1,050 psig. Fld & lt sd.
9:00:00 PM	2,250	18/64	16	Tbg 1,050 psig. Fld & lt sd.
10:00:00 PM	2,250	18/64	12	Tbg 1,050 psig. Fld & lt sd.
11:00:00 PM	2,250	18/64	15	Tbg 1,050 psig. Fld & lt sd.
12:00:00 AM	2,150	18/64	13	Tbg 1,050 psig. Fld & lt sd.
1:00:00 AM	2,150	18/64	16	Tbg 1,050 psig. Fld & lt sd.
2:00:00 AM	2,150	18/64	17	Tbg 1,000 psig. Fld & lt sd.
3:00:00 AM	2,150	18/64	14	Tbg 1,000 psig. Fld & lt sd.
4:00:00 AM	2,150	18/64	12	Tbg 1,000 psig. Fld & lt sd.
5:00:00 AM	2,150	18/64	15	Tbg 1,100 psig. Fld & lt sd.

Ttl Bbls: 326

12/22/07 FTP 1000 psig, SICP 2150 psig. F. 0 BO, 298 BLW, 24 hrs, FTP 1000 - 900 psig, SICP 2150-2000 psig, 18/64" ck. Rets of lt sd, wtr, & gas. 3236 BLWTR.

Flow Zone: MV/WSTC  
 Event Desc: Flow Back Top Interval: 5,708 Bottom Interval: 8,550

Time	Avg Press	Choke Size	BBLS Rec	Comments
6:00:00 AM	2,150	18/64	13	Tbg 1,000 psig. Fld & tr sd.
7:00:00 AM	2,150	18/64	15	Tbg 1,000 psig. Fld & tr sd.
8:00:00 AM	2,150	18/64	10	Tbg 1,000 psig. Fld & tr sd.
9:00:00 AM	2,150	18/64	10	Tbg 1,000 psig. Fld & tr sd.
10:00:00 AM	2,150	18/64	14	Tbg 1,000 psig. Fld & tr sd.
11:00:00 AM	2,150	18/64	13	Tbg 1,000 psig. Fld & tr sd.
12:00:00 PM	2,150	18/64	15	Tbg 1,000 psig. Fld & tr sd.
1:00:00 PM	2,150	18/64	14	Tbg 1,000 psig. Fld & tr sd.
2:00:00 PM	2,150	18/64	16	Tbg 1,000 psig. Fld & tr sd.
3:00:00 PM	2,150	18/64	12	Tbg 1,000 psig. Fld & tr sd.
4:00:00 PM	2,100	18/64	10	Tbg 1,000 psig. Fld & tr sd.
5:00:00 PM	2,100	18/64	13	Tbg 1,000 psig. Fld & tr sd.
6:00:00 PM	2,100	18/64	14	Tbg 1,000 psig. Fld & tr sd.
7:00:00 PM	2,100	18/64	10	Tbg 900 psig. Fld & tr sd.
8:00:00 PM	2,100	18/64	11	Tbg 900 psig. Fld & tr sd.
9:00:00 PM	2,100	18/64	11	Tbg 900 psig. Fld & tr sd.
10:00:00 PM	2,100	18/64	10	Tbg 900 psig. Fld & tr sd.
11:00:00 PM	2,100	18/64	13	Tbg 900 psig. Fld & tr sd.
12:00:00 AM	2,100	18/64	14	Tbg 900 psig. Fld & tr sd.
1:00:00 AM	2,100	18/64	11	Tbg 900 psig. Fld & tr sd.
2:00:00 AM	2,100	18/64	15	Tbg 900 psig. Fld & tr sd.
3:00:00 AM	2,000	18/64	13	Tbg 900 psig. Fld & tr sd.
4:00:00 AM	2,000	18/64	11	Tbg 900 psig. Fld & tr sd.
5:00:00 AM	2,000	18/64	10	Tbg 900 psig. Fld & tr sd.

Ttl Bbls: 298

12/23/07 FTP 900 psig, SICP 2000 psig. F. 0 BO, 276 BLW, 24 hrs, FTP 900 - 800 psig, SICP 2000-1850 psig, 18/64" ck. Rets of tr sd, wtr, & gas. 2960 BLWTR.

Flow Zone: MV/WSTC  
 Event Desc: Flow Back Top Interval: 5,708 Bottom Interval: 8,550

Time	Avg Press	Choke Size	BBLS Rec	Comments
------	-----------	------------	----------	----------

6:00:00 AM	2,000	18/64	13	Tbg 900 psig. Fld tr sd.
7:00:00 AM	2,000	18/64	11	Tbg 900 psig. Fld tr sd.
8:00:00 AM	2,000	18/64	16	Tbg 850 psig. Fld tr sd.
9:00:00 AM	2,000	18/64	15	Tbg 850 psig. Fld tr sd.
10:00:00 AM	2,000	18/64	11	Tbg 850 psig. Fld tr sd.
11:00:00 AM	2,000	18/64	6	Tbg 800 psig. Fld tr sd.
12:00:00 PM	2,000	18/64	14	Tbg 800 psig. Fld tr sd.
1:00:00 PM	1,950	18/64	10	Tbg 800 psig. Fld tr sd.
2:00:00 PM	1,950	18/64	11	Tbg 800 psig. Fld tr sd.
3:00:00 PM	1,950	18/64	10	Tbg 800 psig. Fld tr sd.
4:00:00 PM	1,950	18/64	12	Tbg 800 psig. Fld tr sd.
5:00:00 PM	1,950	18/64	14	Tbg 800 psig. Fld tr sd.
6:00:00 PM	1,950	18/64	10	Tbg 800 psig. Fld tr sd.
7:00:00 PM	1,950	18/64	11	Tbg 800 psig. Fld tr sd.
8:00:00 PM	1,950	18/64	10	Tbg 800 psig. Fld tr sd.
9:00:00 PM	1,950	18/64	9	Tbg 800 psig. Fld tr sd.
10:00:00 PM	1,950	18/64	12	Tbg 800 psig. Fld tr sd.
11:00:00 PM	1,900	18/64	14	Tbg 800 psig. Fld tr sd.
12:00:00 AM	1,900	18/64	11	Tbg 800 psig. Fld tr sd.
1:00:00 AM	1,900	18/64	9	Tbg 800 psig. Fld tr sd.
2:00:00 AM	1,900	18/64	12	Tbg 800 psig. Fld tr sd.
3:00:00 AM	1,900	18/64	14	Tbg 800 psig. Fld tr sd.
4:00:00 AM	1,850	18/64	11	Tbg 800 psig. Fld tr sd.
5:00:00 AM	1,850	18/64	10	Tbg 800 psig. Fld tr sd.

Ttl Bbls: 276

12/24/07 FTP 800 psig, SICP 1850 psig. F. 0 BO, 287 BLW, 24 hrs, FTP 800 psig, SICP 1850-1850 psig. Rets of tr of sd, wtr, & gas. 2673 BLWTR.

Flow Zone: MV/WSTC  
 Event Desc: Flow Back Top Interval: 5,708 Bottom Interval: 8,550

Time	Avg Press	Choke Size	BBLS Rec	Comments
6:00:00 AM	1,850	18/64	11	Tbg 800 psig. Fld & tr sd.
7:00:00 AM	1,850	18/64	14	Tbg 800 psig. Fld & tr sd.
8:00:00 AM	1,850	18/64	16	Tbg 800 psig. Fld & tr sd.
9:00:00 AM	1,850	18/64	15	Tbg 800 psig. Fld & tr sd.
10:00:00 AM	1,850	18/64	14	Tbg 800 psig. Fld & tr sd.
11:00:00 AM	1,850	18/64	10	Tbg 800 psig. Fld & tr sd.
12:00:00 PM	1,850	18/64	12	Tbg 800 psig. Fld & tr sd.
1:00:00 PM	1,850	18/64	13	Tbg 800 psig. Fld & tr sd.
2:00:00 PM	1,850	18/64	16	Tbg 800 psig. Fld & tr sd.
3:00:00 PM	1,800	18/64	10	Tbg 800 psig. Fld & tr sd.
4:00:00 PM	1,800	18/64	11	Tbg 800 psig. Fld & tr sd.
5:00:00 PM	1,800	18/64	12	Tbg 800 psig. Fld & tr sd.
6:00:00 PM	1,800	18/64	9	Tbg 800 psig. Fld & tr sd.
7:00:00 PM	1,800	18/64	11	Tbg 800 psig. Fld & tr sd.
8:00:00 PM	1,800	18/64	13	Tbg 750 psig. Fld & tr sd.
9:00:00 PM	1,800	18/64	10	Tbg 750 psig. Fld & tr sd.
10:00:00 PM	1,800	18/64	14	Tbg 750 psig. Fld & tr sd.
11:00:00 PM	1,800	18/64	10	Tbg 750 psig. Fld & tr sd.
12:00:00 AM	1,750	18/64	9	Tbg 750 psig. Fld & tr sd.
1:00:00 AM	1,750	18/64	14	Tbg 750 psig. Fld & tr sd.
2:00:00 AM	1,750	18/64	14	Tbg 750 psig. Fld & tr sd.
3:00:00 AM	1,750	18/64	10	Tbg 800 psig. Fld & tr sd.
4:00:00 AM	1,750	18/64	9	Tbg 800 psig. Fld & tr sd.

5:00:00 AM 1,850 18/64 10 Tbg 800 psig. Fld & tr sd.  
**Ttl Bbls: 287**

12/25/07 FTP 750 psig, SICP 1700 psig. F. 0 BO, 287 BLW, 24 hrs, FTP 750 - 650 psig, SICP 1700-1550 psig, 18/64" ck. Rets of tr sd, wtr & gas. 2411 BLWTR.

<i>Flow</i>	<b>Zone:</b>	MV/WSTC			
	<b>Event Desc:</b>	Flow Back		<b>Top Interval:</b> 5,708	<b>Bottom Interval:</b> 8,550
		<b>Avg</b>	<b>Choke</b>	<b>BBLS</b>	
	<b>Time</b>	<b>Press</b>	<b>Size</b>	<b>Rec</b>	<b>Comments</b>
	6:00:00 AM	1,700	18/64	13	Tbg 750 psig. Fld, tr sd & gas.
	7:00:00 AM	1,700	18/64	10	Tbg 750 psig. Fld, tr sd & gas.
	8:00:00 AM	1,700	18/64	10	Tbg 750 psig. Fld, tr sd & gas.
	9:00:00 AM	1,700	18/64	12	Tbg 750 psig. Fld, tr sd & gas.
	10:00:00 AM	1,700	18/64	10	Tbg 700 psig. Fld, tr sd & gas.
	11:00:00 AM	1,700	18/64	11	Tbg 700 psig. Fld, tr sd & gas.
	12:00:00 PM	1,600	18/64	12	Tbg 700 psig. Fld, tr sd & gas.
	1:00:00 PM	1,600	18/64	10	Tbg 700 psig. Fld, tr sd & gas.
	2:00:00 PM	1,600	18/64	10	Tbg 700 psig. Fld, tr sd & gas.
	3:00:00 PM	1,600	18/64	10	Tbg 700 psig. Fld, tr sd & gas.
	4:00:00 PM	1,600	18/64	13	Tbg 700 psig. Fld, tr sd & gas.
	5:00:00 PM	1,600	18/64	13	Tbg 700 psig. Fld, tr sd & gas.
	6:00:00 PM	1,600	18/64	10	Tbg 700 psig. Fld, tr sd & gas.
	7:00:00 PM	1,600	18/64	9	Tbg 700 psig. Fld, tr sd & gas.
	8:00:00 PM	1,600	18/64	10	Tbg 700 psig. Fld, tr sd & gas.
	9:00:00 PM	1,600	18/64	12	Tbg 700 psig. Fld, tr sd & gas.
	10:00:00 PM	1,600	18/64	12	Tbg 700 psig. Fld, tr sd & gas.
	11:00:00 PM	1,550	18/64	10	Tbg 700 psig. Fld, tr sd & gas.
	12:00:00 AM	1,550	18/64	10	Tbg 700 psig. Fld, tr sd & gas.
	1:00:00 AM	1,550	18/64	12	Tbg 700 psig. Fld, tr sd & gas.
	2:00:00 AM	1,550	18/64	10	Tbg 700 psig. Fld, tr sd & gas.
	3:00:00 AM	1,550	18/64	13	Tbg 650 psig. Fld, tr sd & gas.
	4:00:00 AM	1,550	18/64	10	Tbg 650 psig. Fld, tr sd & gas.
	5:00:00 AM	1,550	18/64	10	Tbg 650 psig. Fld, tr sd & gas.
			<b>Ttl Bbls:</b>	<b>262</b>	

12/26/07 SICP 1550 psig, FTP 650 psig. F. 0 BO, 249 BLW, 24 hrs, SICP 1550-1500 psig, FTP 650-600 psig, 18/64" ck. Rets of fl, tr sd, wtr, & gas. 2162 BLWTR.

<i>Flow</i>	<b>Zone:</b>	MV/WSTC			
	<b>Event Desc:</b>	Flow Back		<b>Top Interval:</b> 5,708	<b>Bottom Interval:</b> 8,550
		<b>Avg</b>	<b>Choke</b>	<b>BBLS</b>	
	<b>Time</b>	<b>Press</b>	<b>Size</b>	<b>Rec</b>	<b>Comments</b>
	6:00:00 AM	1,550	18/64	11	Tbg 650 psig. Fld, tr sd & gas.
	7:00:00 AM	1,550	18/64	12	Tbg 650 psig. Fld, tr sd & gas.
	8:00:00 AM	1,500	18/64	13	Tbg 650 psig. Fld, tr sd & gas.
	9:00:00 AM	1,500	18/64	10	Tbg 650 psig. Fld, tr sd & gas.
	10:00:00 AM	1,500	18/64	12	Tbg 650 psig. Fld, tr sd & gas.
	11:00:00 AM	1,500	18/64	12	Tbg 650 psig. Fld, tr sd & gas.
	12:00:00 PM	1,500	18/64	10	Tbg 600 psig. Fld, tr sd & gas.
	1:00:00 PM	1,500	18/64	9	Tbg 600 psig. Fld, tr sd & gas.
	2:00:00 PM	1,500	18/64	11	Tbg 600 psig. Fld, tr sd & gas.
	3:00:00 PM	1,500	18/64	8	Tbg 600 psig. Fld, tr sd & gas.
	4:00:00 PM	1,500	18/64	9	Tbg 600 psig. Fld, tr sd & gas.
	5:00:00 PM	1,500	18/64	10	Tbg 600 psig. Fld, tr sd & gas.
	6:00:00 PM	1,500	18/64	11	Tbg 600 psig. Fld, tr sd & gas.

7:00:00 PM	1,500	18/64	9	Tbg 600 psig. Fld, tr sd & gas.
8:00:00 PM	1,500	18/64	11	Tbg 600 psig. Fld, tr sd & gas.
9:00:00 PM	1,500	18/64	12	Tbg 600 psig. Fld, tr sd & gas.
10:00:00 PM	1,500	18/64	9	Tbg 600 psig. Fld, tr sd & gas.
11:00:00 PM	1,500	18/64	10	Tbg 600 psig. Fld, tr sd & gas.
12:00:00 AM	1,500	18/64	10	Tbg 600 psig. Fld, tr sd & gas.
1:00:00 AM	1,500	18/64	11	Tbg 600 psig. Fld, tr sd & gas.
2:00:00 AM	1,500	18/64	9	Tbg 600 psig. Fld, tr sd & gas.
3:00:00 AM	1,500	18/64	10	Tbg 600 psig. Fld, tr sd & gas.
4:00:00 AM	1,500	18/64	9	Tbg 600 psig. Fld, tr sd & gas.
5:00:00 AM	1,500	18/64	11	Tbg 600 psig. Fld, tr sd & gas.

Ttl Bbls: 249

12/27/07 Rpt for AFE #716410 to D&C. MI build pads for sep/dehy combo unit, tk & mtr. Set 12' x 15' Enertech O tk (SN 10583) w/500K htr & 12' x 15' Enertech wtr tk (SN 10622) w/500k htr. Set 3 ph Cimarron sep/dehy combo unit w/pre htr w/500k heater & 20" X 9' sep (SN1337) & 16' x 16' absorber tower (SN 1371) & dehy w/250k htr (SN 0708-105). Build pad & set 3" sales mtr run w/Daniels Simplex w/600 psig flgs. Run 2" sch 80 TBE bare pipe fr/WH to combo unit & fr/combo unit to prod tk. Run 2" ln fr/combo unit to sales mtr. Run 1/2" steel tbg for heat tr to tk & WH. Inst tk containment ring 44" x 52" x 16 ga painted Carlsbad Tan. Ins & tin flw ln & tk ln. Susp rpt pending further activity. SICP 1550 psig, FTP 600 psig. F. 0 BO, 208 BLW, 24 hrs, SICP 1550-1500 psig, FTP 650-600 psig, 18/64" ck. Rets of fl, tr sd, wtr, & gas. 2162 BLWTR.

Flow Zone: MV/WSTC  
 Event Desc: Flow Back Top Interval: 5,708 Bottom Interval: 8,550

Time	Avg Press	Choke Size	BBLS Rec	Comments
6:00:00 AM	1,550	18/64	8	Tbg 600 psig. Fld, tr sd & gas.
7:00:00 AM	1,550	18/64	9	Tbg 550 psig. Fld, tr sd & gas.
8:00:00 AM	1,500	18/64	9	Tbg 550 psig. Fld, tr sd & gas.
9:00:00 AM	1,500	18/64	10	Tbg 550 psig. Fld, tr sd & gas.
10:00:00 AM	1,500	18/64	8	Tbg 550 psig. Fld, tr sd & gas.
11:00:00 AM	1,500	18/64	9	Tbg 550 psig. Fld, tr sd & gas.
12:00:00 PM	1,500	18/64	9	Tbg 550 psig. Fld, tr sd & gas.
1:00:00 PM	1,500	18/64	10	Tbg 550 psig. Fld, tr sd & gas.
2:00:00 PM	1,500	18/64	9	Tbg 550 psig. Fld, tr sd & gas.
3:00:00 PM	1,500	18/64	9	Tbg 550 psig. Fld, tr sd & gas.
4:00:00 PM	1,500	18/64	10	Tbg 550 psig. Fld, tr sd & gas.
5:00:00 PM	1,500	18/64	7	Tbg 550 psig. Fld, tr sd & gas.
6:00:00 PM	1,500	18/64	9	Tbg 550 psig. Fld, tr sd & gas.
7:00:00 PM	1,500	18/64	9	Tbg 550 psig. Fld, tr sd & gas.
8:00:00 PM	1,500	18/64	10	Tbg 550 psig. Fld, tr sd & gas.
9:00:00 PM	1,500	18/64	8	Tbg 550 psig. Fld, tr sd & gas.
10:00:00 PM	1,500	18/64	7	Tbg 550 psig. Fld, tr sd & gas.
11:00:00 PM	1,500	18/64	10	Tbg 550 psig. Fld, tr sd & gas.
12:00:00 AM	1,500	18/64	8	Tbg 550 psig. Fld, tr sd & gas.
1:00:00 AM	1,500	18/64	7	Tbg 550 psig. Fld, tr sd & gas.
2:00:00 AM	1,500	18/64	7	Tbg 550 psig. Fld, tr sd & gas.
3:00:00 AM	1,500	18/64	8	Tbg 550 psig. Fld, tr sd & gas.
4:00:00 AM	1,500	18/64	9	Tbg 550 psig. Fld, tr sd & gas.
5:00:00 AM	1,500	18/64	9	Tbg 550 psig. Fld, tr sd & gas.

Ttl Bbls: 208

12/28/07 SICP 1550 psig, FTP 550 psig. F. 0 BO, 210 BLW, 24 hrs, SICP 1550-1500 psig, FTP 550-550 psig, 18/64" ck. Rets of fl, tr sd, wtr, & gas. 1744 BLWTR.

Flow Zone: MV/WSTC  
 Event Desc: Flow Back Top Interval: 5,708 Bottom Interval: 8,550

Avg Choke BBLS

<u>Time</u>	<u>Press</u>	<u>Size</u>	<u>Rec</u>	<u>Comments</u>
6:00:00 AM	1,550	18/64	8	Tbg 550 psig. Fld, tr sd & gas.
7:00:00 AM	1,550	18/64	9	Tbg 550 psig. Fld, tr sd & gas.
8:00:00 AM	1,500	18/64	9	Tbg 550 psig. Fld, tr sd & gas.
9:00:00 AM	1,500	18/64	8	Tbg 550 psig. Fld, tr sd & gas.
10:00:00 AM	1,500	18/64	10	Tbg 550 psig. Fld, tr sd & gas.
11:00:00 AM	1,500	18/64	9	Tbg 550 psig. Fld, tr sd & gas.
12:00:00 PM	1,500	18/64	9	Tbg 550 psig. Fld, tr sd & gas.
1:00:00 PM	1,500	18/64	8	Tbg 550 psig. Fld, tr sd & gas.
2:00:00 PM	1,500	18/64	10	Tbg 550 psig. Fld, tr sd & gas.
3:00:00 PM	1,500	18/64	11	Tbg 550 psig. Fld, tr sd & gas.
4:00:00 PM	1,500	18/64	9	Tbg 550 psig. Fld, tr sd & gas.
5:00:00 PM	1,500	18/64	8	Tbg 550 psig. Fld, tr sd & gas.
6:00:00 PM	1,500	18/64	8	Tbg 500 psig. Fld, tr sd & gas.
7:00:00 PM	1,500	18/64	9	Tbg 500 psig. Fld, tr sd & gas.
8:00:00 PM	1,500	18/64	7	Tbg 500 psig. Fld, tr sd & gas.
9:00:00 PM	1,500	18/64	9	Tbg 500 psig. Fld, tr sd & gas.
10:00:00 PM	1,500	18/64	10	Tbg 500 psig. Fld, tr sd & gas.
11:00:00 PM	1,500	18/64	11	Tbg 500 psig. Fld, tr sd & gas.
12:00:00 AM	1,500	18/64	9	Tbg 500 psig. Fld, tr sd & gas.
1:00:00 AM	1,500	18/64	9	Tbg 550 psig. Fld, tr sd & gas.
2:00:00 AM	1,500	18/64	7	Tbg 550 psig. Fld, tr sd & gas.
3:00:00 AM	1,500	18/64	8	Tbg 550 psig. Fld, tr sd & gas.
4:00:00 AM	1,500	18/64	7	Tbg 550 psig. Fld, tr sd & gas.
5:00:00 AM	1,500	18/64	8	Tbg 550 psig. Fld, tr sd & gas.
<b>Ttl Bbls:</b>			<b>210</b>	

12/29/07 SICP 1450 psig, FTP 500 psig. F. 0 BO, 193 BLW, 24 hrs, SICP 1450-1400 psig, FTP 500-500 psig, 18/64" ck. Rets of fl, tr sd, wtr, & gas. 1551 BLWTR. Zone #9 MV 6,804' - 6,845'. Zone #10 UB 5,708' - 5,716'.

Flow **Zone:** MV **Event Desc:** FLOW BACK **Top Interval:** 5,708 **Bottom Interval:** 8,550

<u>Time</u>	<u>Press</u>	<u>Size</u>	<u>Rec</u>	<u>Comments</u>
6:00:00 AM	1,450	18/64	7	fl, tr sd, & gas.
7:00:00 AM	1,450	18/64	8	fl, tr sd, & gas.
8:00:00 AM	1,450	18/64	8	fl, tr sd, & gas.
9:00:00 AM	1,450	18/64	7	fl, tr sd, & gas.
10:00:00 AM	1,450	18/64	8	fl, tr sd, & gas.
11:00:00 AM	1,450	18/64	9	fl, tr sd, & gas.
12:00:00 PM	1,450	18/64	8	fl, tr sd, & gas.
1:00:00 PM	1,450	18/64	9	fl, tr sd, & gas.
2:00:00 PM	1,450	18/64	10	fl, tr sd, & gas.
3:00:00 PM	1,450	18/64	7	fl, tr sd, & gas.
4:00:00 PM	1,450	18/64	8	fl, tr sd, & gas.
5:00:00 PM	1,450	18/64	9	fl, tr sd, & gas.
6:00:00 PM	1,450	18/64	9	fl, tr sd, & gas.
7:00:00 PM	1,450	18/64	7	fl, tr sd, & gas.
8:00:00 PM	1,450	18/64	6	fl, tr sd, & gas.
9:00:00 PM	1,450	18/64	8	fl, tr sd, & gas.
10:00:00 PM	1,450	18/64	7	fl, tr sd, & gas.
11:00:00 PM	1,400	18/64	9	fl, tr sd, & gas.
12:00:00 AM	1,400	18/64	8	fl, tr sd, & gas.
1:00:00 AM	1,400	18/64	7	fl, tr sd, & gas.
2:00:00 AM	1,400	18/64	9	fl, tr sd, & gas.
3:00:00 AM	1,400	18/64	8	fl, tr sd, & gas.

4:00:00 AM	1,400	18/64	10	fl, tr sd, & gas.
5:00:00 AM	1,400	18/64	7	fl, tr sd, & gas.
			<b>Ttl Bbls:</b>	193

12/30/07 SICP 1400 psig, FTP 500 psig, F. 0 BO, 166 BLW, 24 hrs, SICP 1400-1350 psig, FTP 500-450 psig, 18/64" ck. Rets of fl, tr sd, wtr, & gas. 1385 BLWTR. Zone #9 MV 6,804' - 6,845'. Zone #10 UB 5,708' - 5,716'.

<i>Flow</i>	<b>Zone:</b>	MV			
	<b>Event Desc:</b>	FLOW BACK	<b>Top Interval:</b>	5,708	
			<b>Bottom Interval:</b>	8,550	
		<b>Avg</b>	<b>Choke</b>	<b>BBLS</b>	
	<b>Time</b>	<b>Press</b>	<b>Size</b>	<b>Rec</b>	
				<b>Comments</b>	
	6:00:00 AM	1,400	18/64	7	fl, tr sd, & gas.
	7:00:00 AM	1,400	18/64	6	fl, tr sd, & gas.
	8:00:00 AM	1,350	18/64	7	fl, tr sd, & gas.
	9:00:00 AM	1,350	18/64	8	fl, tr sd, & gas.
	10:00:00 AM	1,350	18/64	6	fl, tr sd, & gas.
	11:00:00 AM	1,350	18/64	8	fl, tr sd, & gas.
	12:00:00 PM	1,350	18/64	7	fl, tr sd, & gas.
	1:00:00 PM	1,350	18/64	6	fl, tr sd, & gas.
	2:00:00 PM	1,350	18/64	8	fl, tr sd, & gas.
	3:00:00 PM	1,350	18/64	7	fl, tr sd, & gas.
	4:00:00 PM	1,350	18/64	7	fl, tr sd, & gas.
	5:00:00 PM	1,350	18/64	6	fl, tr sd, & gas.
	6:00:00 PM	1,350	18/64	7	fl, tr sd, & gas.
	7:00:00 PM	1,350	18/64	6	fl, tr sd, & gas.
	8:00:00 PM	1,350	18/64	7	fl, tr sd, & gas.
	9:00:00 PM	1,350	18/64	6	fl, tr sd, & gas.
	10:00:00 PM	1,350	18/64	8	fl, tr sd, & gas.
	11:00:00 PM	1,350	18/64	6	fl, tr sd, & gas.
	12:00:00 AM	1,350	18/64	6	fl, tr sd, & gas.
	1:00:00 AM	1,350	18/64	7	fl, tr sd, & gas.
	2:00:00 AM	1,350	18/64	9	fl, tr sd, & gas.
	3:00:00 AM	1,350	18/64	6	fl, tr sd, & gas.
	4:00:00 AM	1,350	18/64	5	fl, tr sd, & gas.
	5:00:00 AM	1,350	18/64	8	fl, tr sd, & gas.
			<b>Ttl Bbls:</b>	164	

12/31/07 SICP 1400 psig, FTP 450 psig, F. 0 BO, 159 BLW, 24 hrs, SICP 1400-1300 psig, FTP 450-400 psig, 18/64" ck. Rets of fl, tr sd, wtr, & gas. 1226 BLWTR. Zone #9 MV 6,804' - 6,845'. Zone #10 UB 5,708' - 5,716'.

<i>Flow</i>	<b>Zone:</b>	MV			
	<b>Event Desc:</b>	FLOW BACK	<b>Top Interval:</b>	5,708	
			<b>Bottom Interval:</b>	8,550	
		<b>Avg</b>	<b>Choke</b>	<b>BBLS</b>	
	<b>Time</b>	<b>Press</b>	<b>Size</b>	<b>Rec</b>	
				<b>Comments</b>	
	6:00:00 AM	1,400	18/64	7	fl, tr sd, & gas.
	7:00:00 AM	1,400	18/64	8	fl, tr sd, & gas.
	8:00:00 AM	1,400	18/64	7	fl, tr sd, & gas.
	9:00:00 AM	1,400	18/64	6	fl, tr sd, & gas.
	10:00:00 AM	1,400	18/64	7	fl, tr sd, & gas.
	11:00:00 AM	1,400	18/64	6	fl, tr sd, & gas.
	12:00:00 PM	1,400	18/64	8	fl, tr sd, & gas.
	1:00:00 PM	1,400	18/64	6	fl, tr sd, & gas.
	2:00:00 PM	1,400	18/64	6	fl, tr sd, & gas.
	3:00:00 PM	1,400	18/64	7	fl, tr sd, & gas.
	4:00:00 PM	1,400	18/64	8	fl, tr sd, & gas.
	5:00:00 PM	1,350	18/64	6	fl, tr sd, & gas.

6:00:00 PM	1,350	18/64	5	fl, tr sd, & gas.
7:00:00 PM	1,350	18/64	6	fl, tr sd, & gas.
8:00:00 PM	1,350	18/64	7	fl, tr sd, & gas.
9:00:00 PM	1,350	18/64	6	fl, tr sd, & gas.
10:00:00 PM	1,350	18/64	7	fl, tr sd, & gas.
11:00:00 PM	1,350	18/64	7	fl, tr sd, & gas.
12:00:00 AM	1,350	18/64	6	fl, tr sd, & gas.
1:00:00 AM	1,300	18/64	5	fl, tr sd, & gas.
2:00:00 AM	1,300	18/64	8	fl, tr sd, & gas.
3:00:00 AM	1,300	18/64	6	fl, tr sd, & gas.
4:00:00 AM	1,300	18/64	7	fl, tr sd, & gas.
5:00:00 AM	1,300	18/64	7	fl, tr sd, & gas.

Ttl Bbls: 159

1/1/08 FTP 400 psig, SICP 1300 psig. F. 0 BO, 151 BLW, 24 hrs, SICP 1300-1200 psig, FTP 400-400 psig, 18/64" ck. Rets of fld, tr sd, wtr, & gas. 1075 BLWTR. Gas smpl analysis indic 13% N2. Zone #9 MV 6,804' - 6,845'. Zone #10 UB 5,708' - 5,716'.

Flow Zone: MV  
 Event Desc: FLOW BACK Top Interval: 5,708 Bottom Interval: 8,550

Time	Avg Press	Choke Size	BBLs		Comments
			Rec		
6:00:00 AM	1,300	18/64	6		fl, tr sd, & gas.
7:00:00 AM	1,300	18/64	7		fl, tr sd, & gas.
8:00:00 AM	1,300	18/64	7		fl, tr sd, & gas.
9:00:00 AM	1,250	18/64	6		fl, tr sd, & gas.
10:00:00 AM	1,250	18/64	5		fl, tr sd, & gas.
11:00:00 AM	1,250	18/64	5		fl, tr sd, & gas.
12:00:00 PM	1,250	18/64	7		fl, tr sd, & gas.
1:00:00 PM	1,250	18/64	6		fl, tr sd, & gas.
2:00:00 PM	1,250	18/64	8		fl, tr sd, & gas.
3:00:00 PM	1,250	18/64	7		fl, tr sd, & gas.
4:00:00 PM	1,250	18/64	6		fl, tr sd, & gas.
5:00:00 PM	1,250	18/64	7		fl, tr sd, & gas.
6:00:00 PM	1,250	18/64	6		fl, tr sd, & gas.
7:00:00 PM	1,250	18/64	6		fl, tr sd, & gas.
8:00:00 PM	1,250	18/64	5		fl, tr sd, & gas.
9:00:00 PM	1,250	18/64	4		fl, tr sd, & gas.
10:00:00 PM	1,200	18/64	6		fl, tr sd, & gas.
11:00:00 PM	1,200	18/64	7		fl, tr sd, & gas.
12:00:00 AM	1,200	18/64	7		fl, tr sd, & gas.
1:00:00 AM	1,200	18/64	8		fl, tr sd, & gas.
2:00:00 AM	1,200	18/64	7		fl, tr sd, & gas.
3:00:00 AM	1,200	18/64	6		fl, tr sd, & gas.
4:00:00 AM	1,200	18/64	5		fl, tr sd, & gas.
5:00:00 AM	1,200	18/64	7		fl, tr sd, & gas.

Ttl Bbls: 151

1/2/08 FTP 400 psig, SICP 1200 psig. F. 0 BO, 142 BLW, 24 hrs, SICP 1200-1150 psig, FTP 400-400 psig, 18/64" ck. Rets of fld, tr sd, wtr & gas. 933 BLWTR. Zone #9 MV 6,804' - 6,845'. Zone #10 UB 5,708' - 5,716'.

Flow Zone: MV  
 Event Desc: FLOW BACK Top Interval: 5,708 Bottom Interval: 8,550

Time	Avg Press	Choke Size	BBLs		Comments
			Rec		
6:00:00 AM	1,200	18/64	6		fl, tr sd, & gas.
7:00:00 AM	1,200	18/64	7		fl, tr sd, & gas.

8:00:00 AM	1,200	18/64	6	fl, tr sd, & gas.
9:00:00 AM	1,200	18/64	5	fl, tr sd, & gas.
10:00:00 AM	1,200	18/64	7	fl, tr sd, & gas.
11:00:00 AM	1,200	18/64	6	fl, tr sd, & gas.
12:00:00 PM	1,200	18/64	6	fl, tr sd, & gas.
1:00:00 PM	1,200	18/64	7	fl, tr sd, & gas.
2:00:00 PM	1,200	18/64	5	fl, tr sd, & gas.
3:00:00 PM	1,200	18/64	5	fl, tr sd, & gas.
4:00:00 PM	1,200	18/64	6	fl, tr sd, & gas.
5:00:00 PM	1,200	18/64	6	fl, tr sd, & gas.
6:00:00 PM	1,200	18/64	7	fl, tr sd, & gas.
7:00:00 PM	1,150	18/64	5	fl, tr sd, & gas.
8:00:00 PM	1,150	18/64	7	fl, tr sd, & gas.
9:00:00 PM	1,150	18/64	6	fl, tr sd, & gas.
10:00:00 PM	1,150	18/64	6	fl, tr sd, & gas.
11:00:00 PM	1,150	18/64	5	fl, tr sd, & gas.
12:00:00 AM	1,150	18/64	4	fl, tr sd, & gas.
1:00:00 AM	1,150	18/64	7	fl, tr sd, & gas.
2:00:00 AM	1,150	18/64	6	fl, tr sd, & gas.
3:00:00 AM	1,150	18/64	7	fl, tr sd, & gas.
4:00:00 AM	1,150	18/64	4	fl, tr sd, & gas.
5:00:00 AM	1,150	18/64	6	fl, tr sd, & gas.

Ttl Bbls: 142

1/4/08 FTP 375 psig. SICP 1100 psig. F. 0 BO, 43 BLW, 6 hrs, SICP 1100-1100 psig, FTP 375-350 psig, 18/64" ck. Rets of fld, tr sd, wtr, & gas. 744 BLWTR. Zone #9 MV 6,804' - 6,845'. Zone #10 UB 5,708' - 5,716'.

Flow Zone: MV  
Event Desc: FLOW BACK Top Interval: 5,708 Bottom Interval: 8,550

Time	Avg Press	Choke Size	BBLS Rec	Comments
6:00:00 AM	1,100	18/64	6	fl, tr sd, & gas.
7:00:00 AM	1,100	18/64	5	fl, tr sd, & gas.
8:00:00 AM	1,100	18/64	7	fl, tr sd, & gas.
9:00:00 AM	1,100	18/64	6	fl, tr sd, & gas.
10:00:00 AM	1,100	18/64	7	fl, tr sd, & gas.
11:00:00 AM	1,100	18/64	6	fl, tr sd, & gas.
12:00:00 PM	1,100	18/64	6	Ris F bk crew.

Ttl Bbls: 43

1/10/08 SITP 225 psig. SICP 1750 psig. MIRU Tech Swabbing SWU. BD tbq. PU & RIH w/swb tls. SN @ 8,517'. BFL @ 3,100' FS. S. 0 BO, 40 BW, 6 runs, 13 hrs. FFL @ 1,200' FS. KO well flwg. FTP 500 psig. SICP 1550 psig. RWTT @ 11:00 a.m., 1-9-08. RDMO Tech Swabbing.

Swab Zone: MV/WSTC  
Event Desc: SWAB Top Interval: 5,078 Bottom Interval: 5,716

Time	Swab Runs	Beg FL	BBLS Rec	Comments
7:30:00 AM	1	3,100	6	BFL @ 3,100'.
8:30:00 AM	4	3,100	27	
10:30:00 AM	1	1,200	7	FFL @ 1,200'.

Ttl Bbls: 40

1/11/08 SITP 17 psig. SICP 1574 psig. MIRU Tech Swabbing SWU. BD tbq. PU & RIH w/swb tls. SN @ 8,517'. BFL @ 4,000' FS. S. 0 BO, 25 BW, 3 runs, 5 hrs. FFL @ 3,600' FS. KO well flwg. FTP 200 psig. SICP 1,540 psig. RWTT @ 3:50 p.m., 1-10-08. RDMO Tech Swabbing.

Swab Zone: MV/WSTC

<u>Event Desc:</u>	SWAB			<b>Top Interval:</b> 5,078	<b>Bottom Interval:</b> 5,716
<u>Time</u>	<u>Swab</u> <u>Runs</u>	<u>Beg</u> <u>FL</u>	<u>BLS</u> <u>Rec</u>	<u>Comments</u>	
2:30:00 PM	1	4,000	8	BFL @ 4,000`.	
3:00:00 PM	1	3,900	8		
3:30:00 PM	1	3,600	9	FFL @ 3,900`.	
		<b>Ttl Bbls:</b>	25		

---

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

FORM 9

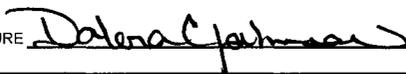
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>UTU34705</b>
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		7. UNIT or CA AGREEMENT NAME: <b>BIG PACK UNIT</b>
		8. WELL NAME and NUMBER: <b>BPU 31-34</b>
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____	9. API NUMBER: <b>4304736489</b>	
2. NAME OF OPERATOR: <b>XTO ENERGY INC.</b>	10. FIELD AND POOL, OR WILDCAT: <b>WILDCAT</b>	
3. ADDRESS OF OPERATOR: <b>382 CR 3100</b> CITY <b>AZTEC</b> STATE <b>NM</b> ZIP <b>87410</b>	PHONE NUMBER: <b>(505) 333-3100</b>	
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>632' FNL &amp; 1972' FEL</b>		COUNTY: <b>UINTAH</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NWNE 34 11S 20E S</b>		STATE: <b>UTAH</b>

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: <b>1/31/2008</b>	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <b>MONTHLY DRILLING REPORT</b>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

Attached is XTO Energy's monthly report for the period of 01/01/2008 to 01/31/2008.

NAME (PLEASE PRINT) <b>DOLENA JOHNSON</b>	TITLE <b>OFFICE CLERK</b>
SIGNATURE 	DATE <b>2/5/2008</b>

(This space for State use only)

**RECEIVED**  
**FEB 08 2008**  
DIV. OF OIL, GAS & MINING

**Farmington Well Workover Report**

<b>BIG PACK UNIT</b>	<b>Well # 031-34</b>	<b>MV/WSTC</b>
----------------------	----------------------	----------------

**Objective:** Drill & Complete

**First Report:** 10/03/2007

**AFE:** 716410

**1/1/08** FTP 400 psig, SICP 1300 psig. F. 0 BO, 151 BLW, 24 hrs, SICP 1300-1200 psig, FTP 400-400 psig, 18/64" ck. Rets of fld, tr sd, wtr, & gas. 1075 BLWTR. Gas smpl analysis indic 13% N2. Zone #9 MV 6,804' - 6,845'. Zone #10 UB 5,708' - 5,716'.

*Flow* **Zone:** MV **Event Desc:** FLOW BACK **Top Interval:** 5,708 **Bottom Interval:** 8,550

<u>Time</u>	<u>Avg Press</u>	<u>Choke Size</u>	<u>BBS Rec</u>	<u>Comments</u>
6:00:00 AM	1,300	18/64	6	fl, tr sd, & gas.
7:00:00 AM	1,300	18/64	7	fl, tr sd, & gas.
8:00:00 AM	1,300	18/64	7	fl, tr sd, & gas.
9:00:00 AM	1,250	18/64	6	fl, tr sd, & gas.
10:00:00 AM	1,250	18/64	5	fl, tr sd, & gas.
11:00:00 AM	1,250	18/64	5	fl, tr sd, & gas.
12:00:00 PM	1,250	18/64	7	fl, tr sd, & gas.
1:00:00 PM	1,250	18/64	6	fl, tr sd, & gas.
2:00:00 PM	1,250	18/64	8	fl, tr sd, & gas.
3:00:00 PM	1,250	18/64	7	fl, tr sd, & gas.
4:00:00 PM	1,250	18/64	6	fl, tr sd, & gas.
5:00:00 PM	1,250	18/64	7	fl, tr sd, & gas.
6:00:00 PM	1,250	18/64	6	fl, tr sd, & gas.
7:00:00 PM	1,250	18/64	6	fl, tr sd, & gas.
8:00:00 PM	1,250	18/64	5	fl, tr sd, & gas.
9:00:00 PM	1,250	18/64	4	fl, tr sd, & gas.
10:00:00 PM	1,200	18/64	6	fl, tr sd, & gas.
11:00:00 PM	1,200	18/64	7	fl, tr sd, & gas.
12:00:00 AM	1,200	18/64	7	fl, tr sd, & gas.
1:00:00 AM	1,200	18/64	8	fl, tr sd, & gas.
2:00:00 AM	1,200	18/64	7	fl, tr sd, & gas.
3:00:00 AM	1,200	18/64	6	fl, tr sd, & gas.
4:00:00 AM	1,200	18/64	5	fl, tr sd, & gas.
5:00:00 AM	1,200	18/64	7	fl, tr sd, & gas.

**Ttl Bbbs:** 151

**1/2/08** FTP 400 psig, SICP 1200 psig. F. 0 BO, 142 BLW, 24 hrs, SICP 1200-1150 psig, FTP 400-400 psig, 18/64" ck. Rets of fld, tr sd, wtr & gas. 933 BLWTR. Zone #9 MV 6,804' - 6,845'. Zone #10 UB 5,708' - 5,716'.

*Flow* **Zone:** MV **Event Desc:** FLOW BACK **Top Interval:** 5,708 **Bottom Interval:** 8,550

<u>Time</u>	<u>Avg Press</u>	<u>Choke Size</u>	<u>BBS Rec</u>	<u>Comments</u>
6:00:00 AM	1,200	18/64	6	fl, tr sd, & gas.
7:00:00 AM	1,200	18/64	7	fl, tr sd, & gas.
8:00:00 AM	1,200	18/64	6	fl, tr sd, & gas.
9:00:00 AM	1,200	18/64	5	fl, tr sd, & gas.
10:00:00 AM	1,200	18/64	7	fl, tr sd, & gas.
11:00:00 AM	1,200	18/64	6	fl, tr sd, & gas.
12:00:00 PM	1,200	18/64	6	fl, tr sd, & gas.
1:00:00 PM	1,200	18/64	7	fl, tr sd, & gas.
2:00:00 PM	1,200	18/64	5	fl, tr sd, & gas.

3:00:00 PM	1,200	18/64	5	fl, tr sd, & gas.
4:00:00 PM	1,200	18/64	6	fl, tr sd, & gas.
5:00:00 PM	1,200	18/64	6	fl, tr sd, & gas.
6:00:00 PM	1,200	18/64	7	fl, tr sd, & gas.
7:00:00 PM	1,150	18/64	5	fl, tr sd, & gas.
8:00:00 PM	1,150	18/64	7	fl, tr sd, & gas.
9:00:00 PM	1,150	18/64	6	fl, tr sd, & gas.
10:00:00 PM	1,150	18/64	6	fl, tr sd, & gas.
11:00:00 PM	1,150	18/64	5	fl, tr sd, & gas.
12:00:00 AM	1,150	18/64	4	fl, tr sd, & gas.
1:00:00 AM	1,150	18/64	7	fl, tr sd, & gas.
2:00:00 AM	1,150	18/64	6	fl, tr sd, & gas.
3:00:00 AM	1,150	18/64	7	fl, tr sd, & gas.
4:00:00 AM	1,150	18/64	4	fl, tr sd, & gas.
5:00:00 AM	1,150	18/64	6	fl, tr sd, & gas.

**Ttl Bbls: 142**

**1/4/08** FTP 375 psig, SICP 1100 psig. F. 0 BO, 43 BLW, 6 hrs, SICP 1100-1100 psig, FTP 375-350 psig, 18/64" ck. Rets of fld, tr sd, wtr, & gas. 744 BLWTR. Zone #9 MV 6,804' - 6,845'. Zone #10 UB 5,708' - 5,716'.

*Flow*      **Zone:** MV  
**Event Desc:** FLOW BACK      **Top Interval:** 5,708      **Bottom Interval:** 8,550

<u>Time</u>	<u>Avg Press</u>	<u>Choke Size</u>	<u>BBLS Rec</u>	<u>Comments</u>
6:00:00 AM	1,100	18/64	6	fl, tr sd, & gas.
7:00:00 AM	1,100	18/64	5	fl, tr sd, & gas.
8:00:00 AM	1,100	18/64	7	fl, tr sd, & gas.
9:00:00 AM	1,100	18/64	6	fl, tr sd, & gas.
10:00:00 AM	1,100	18/64	7	fl, tr sd, & gas.
11:00:00 AM	1,100	18/64	6	fl, tr sd, & gas.
12:00:00 PM	1,100	18/64	6	Ris F bk crew.

**Ttl Bbls: 43**

**1/10/08** SITP 225 psig. SICP 1750 psig. MIRU Tech Swabbing SWU. BD tbg. PU & RIH w/swb tls. SN @ 8,517'. BFL @ 3,100' FS. S. 0 BO, 40 BW, 6 runs, 13 hrs. FFL @ 1,200' FS. KO well flwg. FTP 500 psig. SICP 1550 psig. RWTT @ 11:00 a.m., 1-9-08. RDMO Tech Swabbing.

*Swab*      **Zone:** MV/WSTC  
**Event Desc:** SWAB      **Top Interval:** 5,078      **Bottom Interval:** 5,716

<u>Time</u>	<u>Swab Runs</u>	<u>Beg FL</u>	<u>BBLS Rec</u>	<u>Comments</u>
7:30:00 AM	1	3,100	6	BFL @ 3,100'.
8:30:00 AM	4	3,100	27	
10:30:00 AM	1	1,200	7	FFL @ 1,200'.

**Ttl Bbls: 40**

**1/11/08** SITP 17 psig. SICP 1574 psig. MIRU Tech Swabbing SWU. BD tbg. PU & RIH w/swb tls. SN @ 8,517'. BFL @ 4,000' FS. S. 0 BO, 25 BW, 3 runs, 5 hrs. FFL @ 3,600' FS. KO well flwg. FTP 200 psig. SICP 1,540 psig. RWTT @ 3:50 p.m., 1-10-08. RDMO Tech Swabbing.

*Swab*      **Zone:** MV/WSTC  
**Event Desc:** SWAB      **Top Interval:** 5,078      **Bottom Interval:** 5,716

<u>Time</u>	<u>Swab Runs</u>	<u>Beg FL</u>	<u>BBLS Rec</u>	<u>Comments</u>
2:30:00 PM	1	4,000	8	BFL @ 4,000'.
3:00:00 PM	1	3,900	8	
3:30:00 PM	1	3,600	9	FFL @ 3,900'.

**Ttl Bbls: 25**

1/12/08 F. 0 , 404 , 0 MCF, FTP 20 psig, SICP 900 psig, 48/64, LP 101 psig, SP 0 psig, DP 0 psig, 7 hrs. flowing to tk.

---

1/13/08 F. 0 , 294 , 0 MCF, FTP 40 psig, SICP 725 psig, 48/64, LP 101 psig, SP 0 psig, DP 0 psig, 24 hrs. flowing to tk.

---

1/14/08 F. 0 , 189 , 0 MCF, FTP 36 psig, SICP 685 psig, 48/64, LP 116 psig, SP 0 psig, DP 0 psig, 24 hrs. flowing to tk.

---

1/15/08 F. 0 , 62 , 0 MCF, FTP 30 psig, SICP 790 psig, 48/64, LP 110 psig, SP 0 psig, DP 0 psig, 24 hrs. flowing to tk. 10 HOURS SWAB.  
SITP 0 psig. SICP 1000 psig. MIRU Tech Swabbing SWU. PU & RIH w/swb tls. SN @ 8,517'. BFL @ 5,400' FS. S. 0 BO, 14 BW, 2 runs, 4 hrs. FFL @ 1,800' FS. KO well flwg. FTP 180 psig. SICP 950 psig. RWTP @ 3:30 p.m., 1-14-08. RDMO Tech Swabbing.

---

1/16/08 F. 0 , 234 , 0 MCF, FTP 100 psig, SICP 825 psig, , LP 109 psig, SP 0 psig, DP 0 psig, 24 hrs. Flowing to tk.  
SITP 125 psig. SICP 1000 psig. MIRU Tech Swabbing SWU. BD tbg. PU & RIH w/swb tls. SN @ 8,517'. BFL @ 5,400' FS. S. 0 BO, 28 BW, 4 runs, 5 hrs. FFL @ 5,400' FS. KO well flwg. FTP 180 psig. SICP 820 psig. RWTT @ 10:00 a.m., 1-15-08. RDMO Tech Swabbing.

Swab Zone: MV/WSTC

Event Desc: Swab Top Interval: 5,078 Bottom Interval: 8,612

Time	Swab Runs	Beg FL	BBLS Rec	Comments
7:15:00 AM	1	5,400	7	
8:15:00 AM	2	5,400	14	
8:45:00 AM	1	4,000	7	
<b>Ttl Bbls:</b>			<b>28</b>	

1/17/08 F. 0 , 45 , 0 MCF, FTP 0 psig, SICP 823 psig, 48/64, LP 108 psig, SP 0 psig, DP 0 psig, 24 hrs. flowing to tk. 20 HOURS SWAB.  
SITP 0 psig. SICP 990 psig. MIRU Tech Swabbing SWU. PU & RIH w/swb tls. SN @ 8,517'. BFL @ 5,400' FS. S. 0 BO, 23 BW, 3 runs, 6.5 hrs. FFL @ 1,800' FS. KO well flwg. FTP 230 psig. SICP 950 psig. RWTT @ 11:00 a.m., 1-16-08. RDMO Tech Swabbing.

Swab Zone: MV/WSTC

Event Desc: SWAB Top Interval: 5,078 Bottom Interval: 8,612

Time	Swab Runs	Beg FL	BBLS Rec	Comments
8:30:00 AM	1	5,400	7	BFL @ 5,400'.
9:00:00 AM	1	5,400	8	
9:30:00 AM	1	1,800	8	FFL @ 1,800'.
<b>Ttl Bbls:</b>			<b>23</b>	

1/18/08 F. 0 , 30 , 0 MCF, FTP 10 psig, SICP 825 psig, 48/34, LP 115 psig, SP 0 psig, DP 0 psig, 24 hrs. flowing to tk. 20 HOURS SWAB.  
SITP 0 psig. SICP 1150 psig. MIRU Tech Swabbing SWU. Dropd BHBS & plngr, chased to bottom. PU & RIH w/swb tls. SN @ 8,517'. BFL @ 4,800' FS. S. 0 BO, 34 BW, 4 runs, 9.5 hrs. FFL @ 3,800' FS. KO well flwg. Cycled plngr. FTP 550 psig. SICP 1120 psig. RWTT @ 2:30 p.m., 1-17-08. RDMO Tech Swabbing.

Swab Zone: MV/WSTC

Event Desc: SWAB Top Interval: 5,078 Bottom Interval: 8,612

Time	Swab Runs	Beg FL	BBLS Rec	Comments
9:30:00 AM	1	4,800	8	BFL @ 4,800'.
10:00:00 AM	2	4,800	17	
11:00:00 AM	15	3,800	9	FFL @ 3,800'.
<b>Ttl Bbls:</b>			<b>34</b>	

1/19/08 F. 0 , 165 , 0 MCF, FTP 5 psig, SICP 824 psig, 48/64, LP 110 psig, SP 0 psig, DP 0 psig, 24 hrs. flowing to tk. 20 HOURS SWAB.

1/20/08 F. 0 , 0 , 0 MCF, FTP 5 psig, SICP 1300 psig, 48/64, LP 125 psig, SP 0 psig, DP 0 psig, 24 hrs. flowing to tk. 24 hours logged off.

1/21/08 F. 0 , 0 , 0 MCF, FTP 5 psig, SICP 1300 psig, 48/64, LP 125 psig, SP 0 psig, DP 0 psig, 24 hrs. flowing to tk. 24 hours logged off.

---

*1/22/08* F. 0 , 0 , 0 MCF, FTP 0 psig, FCP 1300 psig, 48/64, LP 125 psig, SP 0 psig, DP 0 psig, 24 hrs.

---

*1/28/08* MIRU Larose Construction. Fence rmvd 12/12/08. Pit reclaimed 1/7/08 RDMO Larose Construction. Rpt suspd pending futher activity.

---

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.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-34705
2. NAME OF OPERATOR: XTO ENERGY INC.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A
3. ADDRESS OF OPERATOR: 382 CR 3100 CITY AZTEC STATE NM ZIP 87410		7. UNIT or CA AGREEMENT NAME: BIG PACK UNIT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 632' FNL & 1972' FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNE 34 11S 20E		8. WELL NAME and NUMBER: BPU 31-34
PHONE NUMBER: (505) 333-3100		9. API NUMBER: 4304736489
COUNTY: UINTAH		10. FIELD AND POOL, OR WILDCAT: WILDCAT
STATE: UTAH		

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: 3/15/2008	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: WATER ISOLATION TEST
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
XTO Energy Inc. proposes to conduct a water isolation test on this well per attached procedure.

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY

NAME (PLEASE PRINT) HOLLY C. PERKINS	TITLE REGULATORY COMPLIANCE TECH
SIGNATURE <i>Holly C. Perkins</i>	DATE 2/28/2008

(This space for State use only)

RECEIVED  
MAR 03 2008  
DIV. OF OIL, GAS & MINING

**Big Pack Unit #31-34**  
**Unit B, Sec 34, T 11 S, R 20 E**  
**Uintah County, Utah**

**Water Isolation Test**

**Cond csg:** 14", 65#, J-55, ST&C csg @ 40'. Circ cmt to surf.

**Surf csg:** 9-5/8", 36#, J-55, ST&C csg @ 2,413'. Circ cmt to surf.

**Prod csg:** 4-1/2", 11.6#, P-110, LT&C csg @ 9,005'. FC @ 8,962'. PBTB @ 8,962'. Drift = 3.875".  
Capacity = 0.0155 bbls/ft. **Burst = 10,690 psi (Treating @ 80% = 8,552 psi).**

**Cement:** 380 sx Hi Fill V cmt w/0.6% EX-1, 16% gel, 10 pps Gilsonite, 1% HR-7M, 1/4 pps Flocele, & 3% salt (mixed @ 11.0 ppg & 3.82 cuft/ft) + 1,150 sx 65/35 POZ cmt w/2% Bentonite, 1/4 pps Flocele, 0.6% Halad-322, 2% Microbond M, 5% salt, & 0.2% Super CBL (mixed @ 14.35 ppg & 1.24 cuft/ft). Did not circ cmt to surface.

**Tbg:** 258 jts, 4.7#, J-55, 8rd, EUE tbg, BRS, SS, SN, & 3-7/8" bit @ 8,519', SN @ 8,517'

**Perforations: Castlegate:** 8,607'-8,612', 8,622'-8,627' (3 SPF, 32 ttl) – Beneath CIBP

**Mesaverde:** 8,436'-8,441', 8,545'-8,550' (3 SPF, 61 ttl); 7,922'-7,924', 7,938'-7,940', 7,953'-7,955', 7,984'-7,987', 8,014'-8,017' (3 SPF, 41 ttl); 7,810'-7,818', 7,869'-7,873' (3 SPF, 38 ttl); 7,358'-7,362' (3 SPF, 13 ttl); 7,230'-7,234', 7,238'-7,242', 7,290'-7,293' (3 SPF, 36 ttl); 7,134'-7,137', 7,144'-7,147', 7,156'-7,159', 7,164'-7,167', 7,182'-7,185' (3 SPF, 50 ttl); 7,040'-7,046' (3 SPF, 19 ttl); 6,804'-6,807', 6,818'-6,821', 6,842'-6,845' (3 SPF, 30 ttl)

**Wasatch:** 5,708'-5,716' (3 SPF, 25 ttl)

**Current:** Logged Off

**Note:** All load water has been recovered

**Water Zone:** *Estimated to be in Zone 9, Zone 7, Zone 5, & Zone 3*

**Isolation Procedure**

- 1) MIRU PU. MI 1 - 500 bbl frac tank and 1 flow back tank. Fill the frac tank with 2% KCl water.
- 2) ND WH. NU BOP.
- 3) TOH w/2-3/8" tbg. TIH with 4-1/2" RBP, RBP release tool, 4-1/2" packer, and 2-3/8" tbg to surface.
- 4) Set RBP and packer based on the swab testing schedule below. *Note: If zone being tested kicks off, kill well and proceed up hole. If zone does not kick off, contact Brock Hendrickson and wait for further instructions before proceeding.*

TEST ZONE	PERF	RBP SET DEPTH	PKR SET DEPTH
Zone 2	8,545'-8,550'	8,575'	8,525'
Zone 2	8,436'-8,441'	8,475'	8,425'
Zone 3	7,922'-8,017'	8,025'	7,900'
Zone 4	7,810'-7,873'	7,900'	7,800'
Zone 5	7,358'-7,362'	7,400'	7,325'
Zone 6	7,230'-7,293'	7,300'	7,200'
Zone 7	7,134'-7,185'	7,200'	7,100'
Zone 8	7,040'-7,046'	7,075'	7,000'
Zone 9	6,804'-6,845'	6,875'	6,775'
Zone 10	5,708'-5,716'	5,730'	5,675'

- 5) Once determining all applicable water zones, begin to prep well for cement squeeze operations.
- 6) TOH with BHA.
- 7) TIH with CIBP at least 100' below squeeze interval (if CIBP can not be set 100' below squeeze interval, contact Brock Hendrickson and wait for further instructions). TOH with setting tool.
- 8) TIH with 4-1/2" packer, SN, and 2-3/8" tbg. Set packer at least 100' above casing leak (if packer can not be set 100' above squeeze interval, contact Brock Hendrickson and wait for further instructions).
- 9) **CONTACT BLM/Utah OGC PRIOR TO SQUEEZE OPERATIONS.**
- 10) **Amount of cement sacks to be determined after isolating water zones.** Pump ASTM Type III cmt with 3% CaCl<sub>2</sub> (mixed @ 14.8 ppg & 1.32 cuft/ft) down tbg. Flush with 2% KCl water to end of BHA, plus an additional 2 bbls over tbg volume.
- 11) Unset packer and TOH two stands. Reverse circulate tubing clean and reset packer. Pressure tubing to 500 psig and allow squeeze to set overnight.
- 12) TOH with BHA (*if multiple squeezes are needed*).
- 13) Continue with steps 7 through 11 until all water zones are squeezed.
- 14) ALLOW SQUEEZE TO SET FOR AT LEAST 24 HOURS.
- 15) TOH with tubing and packer.
- 16) TIH with 3-7/8" mill, SN, and 2-3/8" tubing.
- 17) Clean out to CIBP/PBTD (8,600'). Pressure test casing to 500 psig for 30". Record test on chart.
- 18) TOH w/BHA.
- 19) TIH w/NC, SN, and 2-3/8" tubing. Land EOT @ ±8,501', SN @ ±8,500'.
- 20) Swab well until clean fluid is obtained and well kicks off.

21) RDMO PU. Return well to production.

22) Report rates and pressures to Brock Hendrickson.

**Regulatory:**

1. Obtain verbal approvals for water isolation squeezes, once determined.
2. Submit subsequent sundry for water isolation squeezes.

**Equipment:**

1. 4-1/2" RBP & packer

# BIG PACK UNIT #31-34 WELLBORE DIAGRAM

KB: 5,783'  
GL: 5,770'  
CORR: 13'

## DATA

**LOCATION:** 632' FNL & 1,972' FEL, UNIT B, SEC 34, T 11S, R 20E

**COUNTY/STATE:** Uintah County, Utah

**FIELD:** NATURAL BUTTES

**FORMATION:** MESAVERDE, WASATCH

**FED LEASE #:** UTU-34705 **API #:** 43-047-36489

**CTOC WELL #:** 165251

**SPUD DATE:** 09/27/05

**COMPLETION DATE:** 12/19/07

**IP:** F. 0 BO, 43 BW, 170 MCF, FTP 350 PSIG, SICP 1,100 PSIG, 18/64" CK, 6 HRS.

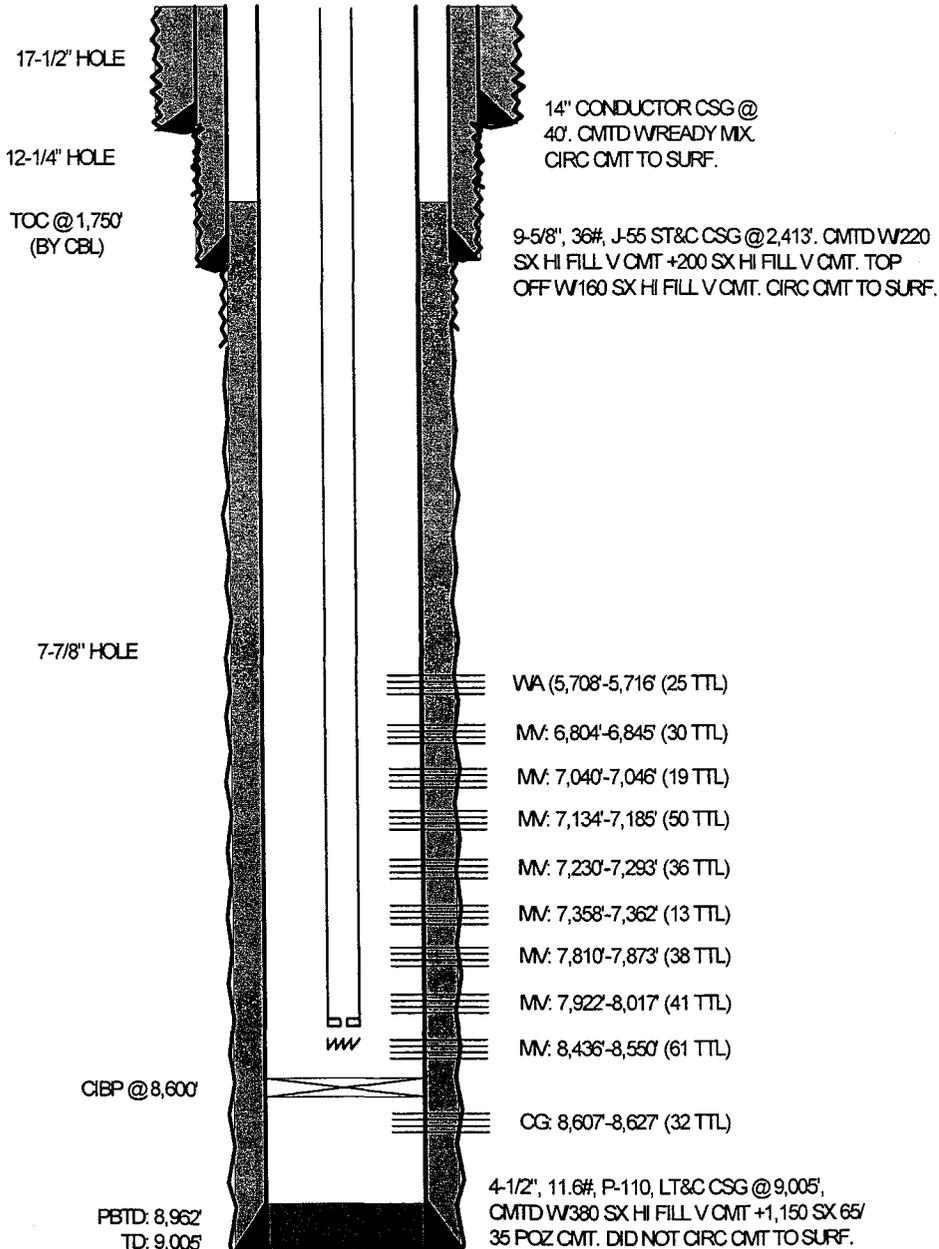
**PRODUCTION METHOD:** FLOWING

**TUBING STRING:** 258 JTS, 4.7#, J-55, 8RD, EUE TBG, BRS, SS, SN, & 3-7/8" BIT @ 8,519', SN @ 8,517'

**PERFS:** CG: 8,607'-8,612', 8,622'-8,627' (3 SPF, 32 TTL), MV: 8,436'-8,441', 8,545'-8,550' (3 SPF, 61 TTL), 7,922'-7,924', 7,938'-7,940', 7,953'-7,955', 7,984'-7,987', 8,014'-8,017' (3 SPF, 41 TTL), 7,810'-7,818', 7,869'-7,873' (3 SPF, 38 TTL), 7,358'-7,362' (3 SPF, 13 TTL), 7,230'-7,234', 7,238'-7,242', 7,290'-7,293' (3 SPF, 36 TTL), 7,134'-7,137', 7,144'-7,147', 7,156'-7,159', 7,164'-7,167', 7,182'-7,185' (3 SPF, 50 TTL), 7,040'-7,046' (3 SPF, 19 TTL), 6,804'-6,807', 6,818'-6,821', 6,842'-6,845' (3 SPF, 30 TTL), WA: 5,708'-5,716' (3 SPF, 25 TTL)

## HISTORY

- 09/27/05:** SET 1 JT (40') 14" CONDUCTOR CSG. CMT W/READY MIX. CIRC CMT TO SURF. SPUD 12-1/4" HOLE. REACHED TD OF 2,430'. SET 56 JTS, 9-5/8", 36# J-55, ST&C CSG @ 2,413'. CMTD W/220 SX HI FILL V CMT (MIXED @ 11.0 PPG & 3.82 CUFT/SX) + 200 SX HI FILL V CMT (MIXED @ 15.8 PPG & 1.15 CUFT/SX). TOP OFF W/160 SX HI FILL V CMT (MIXED @ 15.8 PPG & 1.15 CUFT/SX). CIRC CMT TO SURF.
- 10/27/05:** WEIGHT UP MUD @ 5,480', DUE TO TI HOLE.
- 11/11/05:** DRILLED 7-7/8" HOLE TO 9,005. MIRU HALLIBURTON WL. LOG W/TRIPLE COMBO TL. RDMO WL.
- 11/13/05:** SET 212 JTS 4-1/2", 11.6#, P-110, LT&C CSG @ 9,005, FC @ 8,962'. CMTD W/380 SX HI FILL V CMT W/0.6% EX-1, 16% GEL, 10 PPS GILSONITE, 1% HR-7M, 1/4 PPS FLOCELE, & 3% SALT (MIXED @ 11.0 PPG & 3.82 CUFT/FT) + 1,150 SX 65/35 POZ CMT W/2% BENTONITE, 1/4 PPS FLOCELE, 0.6% HALAD-322, 2% MICROBOND M, 5% SALT, & 0.2% SUPER CBL (MIXED @ 14.35 PPG & 1.24 CUFT/FT). DID NOT CIRC CMT TO SURFACE. RLSD DRLG RIG.
- 01/25/07:** DOMINION E&P ASSUMES OPERATIONS.
- 08/01/07:** XTO ENERGY ASSUMES OPERATIONS.
- 11/20/07:** MIRU WL. RUN GR/CCL/CBL FR/8,900'-1,300'. TOC @ 1,750'. PERF MV/CG FR/8,436'-8,441', 8,545'-8,550', 8,607'-8,612', 8,622'-8,627' (3 SPF, 120 DEG, 0.35" EHD, 34.24" PENE, 61 HOLES). RDMO WL. MIRU CTU. SPTD 800 GALS 7.5% HCL FR/8,620'-7,400'. RDMO CTU. MIRU PU. TIH W/4-1/2" HD PKR, SN & 260 JTS OF 2-3/8", 4.7#, J-55, EUE, 8RD TBG. SET PKR @ 8,573'. SPTD 750 GALS OF 15% HCL AC W/45 BIO BS @ 4.6 BPM & 4,500 PSIG. SWAB BACK.
- 11/26/07:** TOH W/BHA. RDMO PU.
- 11/27/07:** MIRU WL. SET CIBP @ 8,600'.
- 11/28/07:** MIRU FRAC. FRAC'D MV FR/8,436' - 8,550' DWN 4-1/2" CSG W/36,833 GALS WTR, DELTA-R 70Q FOAMED FRAC FLD, 14.5# GEL, 2% KCL W/41,560# OTTAWA 20/40 SD. MAX SD CONC 4 PPG. USED 350 MSCF N2. SCREENED OUT W/38,680 LBS OF SD IN FORMATION & 2,880# SD IN THE WELL BORE, LOST XL ADDING EXPEDITE. RU WL. PERF MV FR/7,922'-7,924', 7,938'-7,940', 7,953'-7,955', 7,984'-7,987', 8,014'-8,017' (TITAN EXP T, 3-1/8" CSG GUN, 22.7 GR, 3 SPF, 120 DEG, 0.36" EHD, 35.63" PENE, 41 HOLES). POH W/WL TO 6,000', RIH & TGD SD @ 7,950'. SET CFP @ 8,350'. RD WL.
- 12/05/07:** PPD 800 GALLONS OF 7-1/2% HCL. NO XL. OVER FLUSHED 10,700# OF 1 PPG SD, PPD 674 BBLs OF 2% KCL WTR & 120,000 MSCF N2. RE-FRAC'D MV STG #3 PERFS FR/7,922' - 8,017' DWN 4-1/2" CSG W/37,359 (65,667 GALS TTL) GALS, 70Q



**BIG PACK UNIT #31-34  
WELLBORE DIAGRAM**

DELTA-R FOAMED FRAC FLD, 18# GEL, 2% KCL W/142,800# (TOTAL 153,500#)  
OTTAWA 20/40 SD. MAX SD CONC 4 PPG, ISIP 4,274 PSIG, 5" SIP 2,840 PSIG,  
USED 2,226.017 MSCF N2, 2481(STG 3) BLWTR.

**12/06/07:** RU WL. SET CFP @ 7,905'. PERF MV @ 7,810'-7,818', 7,869'-7,873' (TITAN EXP T, 3-1/8" CSG GUN, 22.7 GR, 3 SPF, 120 DEG, .36" EHD, 35.63" PENE, 38 HOLES). FRAC'D MV FR/7,810'-7,873' DWN 4-1/2" CSG W/17,196 GALS WTR, 70Q DELTA-R FOAMED FRAC, 19# GEL, 2% KCL W/50,500# OTTAWA 20/40 SD. MAX SD CONC 4 PPG, ISIP 3,889 PSIG, 5" 3,632 PSIG. USED 653,000 MSCF N2, 2,891 BLW. RU WL. SET CFP @ 7,710'. PERF MV FR/7,358'-7,362' (TITAN EXP T, 3-1/8" CSG GUN, 22.7 GR, 3 SPF, 120 DEG, .36" EHD, 35.63" PENE, 13 HOLES). FRAC'D MV FR/7,358'-7,362' DWN 4-1/2" CSG W/15,770 GALS WTR, 70Q DELTA-R FOAMED FRAC FLD, 17.5# GEL, 2% KCL W/39,960# OTTAWA 20/40 SD. MAX SD CONC 4 PPG, ISIP N/A PSIG, 5" 0 PSIG. SCREENED OUT W/39,560# OF SD IN FORMATION & 400# IN CSG. FAILURE @ 70Q CUT DURING FLSH.

**12/07/07:** RU WL. SET CFP @ 7,330'. PERF MV FR/7,230'-7,234', 7,238'-7,242', 7,290'-7,293' (EXP T, 3-1/8" CSG GUN, 22.7 GR, 3 SPF, 120 DEG, 0.36" EHD, 35.63" PENE, 36 HOLES). FRAC'D MV FR/7,230'-7,293' DWN 4-1/2" CSG W/14,955 GALS, 70Q DELTA-R FOAM, 13.6# GEL, 2% KCL W/32,500 LBS OTTAWA 20/40 SD. MAX SD CONC 4 PPG, ISIP 2,891 PSIG, 5" 2,842 PSIG. USED 689,076 MSCF N2. RU WL. SET CFP @ 7,210'. PERF MV FR/7,134'-7,137', 7,144'-7,147', 7,156'-7,159', 7,164'-7,167', 7,182'-7,185' (TITAN EXP T, 3-1/8" CSG GUN, 22.7 GR, 3 SPF, 120 DEG, 0.36" EHD, 35.63" PENE, 50 HOLES). FRAC'D MV FR/7,134'-7,185' DWN 4-1/2" CSG W/22,092 GALS, 70Q DELTA-R FOAM, 2% KCL W/98,800 LBS OTTAWA 20/40 SD. MAX SD CONC 4 PPG, ISIP 3,739 PSIG, 5" SIP 3,506 PSIG. USED 1,568,237 MSCF N2. RU WL. SET CFP @ 7,120'. PERF MV FR/7,040'-7,046' (TITAN EXP T, 3-1/8" CSG GUN, 22.7 GR, 3 SPF, 120 DEG, 0.36" EHD, 35.63" PENE, 19 HOLES). FRAC'D MV FR/7,049'-7,046' DWN 4-1/2" CSG W/20,870 GALS, 70Q DELTA-R FOAM, 13.6# GEL, 2% KCL W/74,900 LBS OTTAWA 20/40 SD. MAX SD CONC 4 PPG, ISIP 4,971 PSIG, 5" 4,696 PSIG, USED 1,187,335 MSCF N2.

**12/08/07:** RU WL. SET CFP @ 6,990'. PERF MV FR/6,804'-6,807', 6,818'-6,821', 6,842'-6,845' (TITAN EXP T, 3-1/8" CSG GUN, 22.7 GR, 3 SPF, 120 DEG, .36" EHD, 35.63" PENE, 30 HOLES). FRAC'D MV FR/6,804'-6,845' DWN 4-1/2" CSG W/14,128 GALS, 70Q DELTA-R FOAM, 13.6# GEL, 2% KCL W/60,300 LBS OTTAWA 20/40 SD. MAX SD CONC 4 PPG, ISIP 5,140 PSIG, 5" 4,700 PSIG, USED 1,059,776 MSCF N2. RU WL. SET CBP @ 6,300'. PERF UTELAND BUTTES FR/5,708'-5,716' (TITAN EXP T, 3-1/8" CSG GUN, 22.7 GR, 3 SPF, 120 DEG, .36" EHD, 35.63" PENE, 25 HOLES). FRAC'D UB FR/5,708'-5,716' DWN 4-1/2" CSG W/9,578 GALS, 70Q DELTA-R FOAM, 2% KCL W/36,300 LBS OTTAWA 20/40 SD. MAX SD CONC 4 PPG, ISIP 3,720 PSIG, 5" SIP 3,590 PSIG, USED 502,667 MSCF N2. RDMO WL & FRAC.

**12/18/07:** MIRU PU. TIH W/3-7/8" BIT, SN, SS, BRS, & 170 JTS 2-3/8" TBG.

**12/19/07:** DO CBP & CFPS. CO TO CIBP @ 8,350'. LD 258 JTS, 4.7#, J-55, 8RD, EUE TBG, BRS, SS, SN, & 3-7/8" BIT @ 8,519', SN @ 8,517'. PMP OFF BIT. RDMO PU.

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

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>UTU-34705</b>
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.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		7. UNIT or CA AGREEMENT NAME: <b>BIG PACK UNIT</b>
2. NAME OF OPERATOR: <b>XTO ENERGY INC.</b>		8. WELL NAME and NUMBER: <b>BPU 31-34</b>
3. ADDRESS OF OPERATOR: <b>382 CR 3100</b> CITY <b>AZTEC</b> STATE <b>NM</b> ZIP <b>87410</b>		9. API NUMBER: <b>4304736489</b>
		10. FIELD AND POOL, OR WILDCAT: <b>WILDCAT</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>632' FNL &amp; 1972' FEL</b>		COUNTY: <b>UINTAH</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NWNE 34 11S 20E S</b>		STATE: <b>UTAH</b>

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will start:  _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of work completion: <b>2/29/2008</b>	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <b>FEB'08 MONTHLY REPORTING</b>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

XTO Energy has nothing to report on this well for the month of February 2008.

NAME (PLEASE PRINT) <u>DOLENA JOHNSON</u>	TITLE <u>OFFICE CLERK</u>
SIGNATURE <u><i>Dolena Johnson</i></u>	DATE <u>3/1/2008</u>

(This space for State use only)

**RECEIVED**  
**MAR 05 2008**  
DIV. OF OIL, GAS & MINING

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

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>UTU-34705</b>
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.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		7. UNIT or CA AGREEMENT NAME: <b>BIG PACK UNIT</b>
2. NAME OF OPERATOR: <b>XTO ENERGY INC.</b>		8. WELL NAME and NUMBER: <b>BPU 31-34</b>
3. ADDRESS OF OPERATOR: 382 CR 3100 CITY <b>AZTEC</b> STATE <b>NM</b> ZIP <b>87410</b>		9. API NUMBER: <b>4304736489</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>632' FNL &amp; 1972' FEL</b> QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NWNE 34 11S 20E S</b>		10. FIELD AND POOL, OR WILDCAT: <b>WILDCAT</b> COUNTY: <b>UINTAH</b> STATE: <b>UTAH</b>

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/RESUME) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input checked="" type="checkbox"/> OTHER: <b>1ST DELIVERY</b>
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: <b>12/21/2007</b>			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
 XTO Energy Inc. first delivered this well on 12/21/2007 at 12 p.m. Initial flow rate: 200 MCFPD.

NAME (PLEASE PRINT) <b>HOLLY C. PERKINS</b>	TITLE <b>REGULATORY COMPLIANCE TECH</b>
SIGNATURE <i>Holly C. Perkins</i>	DATE <b>3/13/2008</b>

(This space for State use only)

RECORD CLEAN UP

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

AMENDED REPORT  FORM 8  
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  OTHER \_\_\_\_\_  
b. TYPE OF WORK: NEW WELL  HORIZ. LATS.  DEEP-EN  RE-ENTRY  DIFF. RESVR.  OTHER \_\_\_\_\_

2. NAME OF OPERATOR: XTO Energy Inc.

3. ADDRESS OF OPERATOR: 382 CR 3100 CITY AZTEC STATE NM ZIP 87410 PHONE NUMBER: (505) 333-3100

4. LOCATION OF WELL (FOOTAGES)  
AT SURFACE: 632' FNL & 1972' FEL  
AT TOP PRODUCING INTERVAL REPORTED BELOW:  
AT TOTAL DEPTH:  
11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNE 34 11S 20E  
12. COUNTY UINTAH 13. STATE UTAH

14. DATE SPUDDED: 9/27/2005 15. DATE T.D. REACHED: 11/11/2005 16. DATE COMPLETED: 12/21/2007 ABANDONED  READY TO PRODUCE  17. ELEVATIONS (DF, RKB, RT, GL): 5770'

18. TOTAL DEPTH: MD 9,006 TVD 19. PLUG BACK T.D.: MD 8,962 TVD 20. IF MULTIPLE COMPLETIONS, HOW MANY? \* 21. DEPTH BRIDGE MD PLUG SET: TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)  
GR/CCL/CBL, HRI, SD, DSN  
23. WAS WELL CORED? NO  YES  (Submit analysis)  
WAS DST RUN? NO  YES  (Submit report)  
DIRECTIONAL SURVEY? NO  YES  (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
17 1/2"	14"		0	40		RM 6		SURF	0
12 1/4"	9 5/8 J55	36#	0	2,413		V 420		1750	0
7 7/8"	4 1/2 P110	11.6#	0	9,005		V 530		5716	0

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	8,517							

26. PRODUCING INTERVALS 27. PERFORATION RECORD.

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) MVRD	5,708	8,627			5,708 8,627	0.36	345	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(B)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
5708' - 8627'	Acidized w/674 bbls 2% KCl wtr & 120,000 mscf N2. Frac'd w/188,781 gals slurry water, 70Q Delta frac fluid, 18# gel, 2% KCl wtr carrying 577,520# Premium White 20/40 sand.

29. ENCLOSED ATTACHMENTS:  ELECTRICAL/MECHANICAL LOGS  GEOLOGIC REPORT  DST REPORT  DIRECTIONAL SURVEY  
 SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION  CORE ANALYSIS  OTHER: \_\_\_\_\_  
30. WELL STATUS: P

RECEIVED  
MAR 17 2008  
DIV. OF OIL, GAS & MINING

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 12/21/2007		TEST DATE: 12/22/2007		HOURS TESTED: 6		TEST PRODUCTION RATES: →		OIL - BBL: 0	GAS - MCF: 170	WATER - BBL: 43	PROD. METHOD: PPG
CHOKE SIZE: 18/64	TBG. PRESS. 400	CSG. PRESS. 2,125	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL: 0	GAS - MCF: 680	WATER - BBL: 172	INTERVAL STATUS: PRODUCING	

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →		OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:	

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →		OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:	

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →		OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:	

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

TO BE SOLD

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				WASATCH TONGUE	3.152
				UTELAND LIMESTONE	3.459
				WASATCH	3.602
				CHAPITA WELLS	4.428
				UTELAND BUTTE	5.505
				MESAVERDE	6.298
				TOTAL DEPTH	9.005

35. ADDITIONAL REMARKS (Include plugging procedure)

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) HOLLY C. PERKINS TITLE REGULATORY COMPLIANCE TECH  
 SIGNATURE *Holly C. Perkins* DATE 3/13/2008

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

\* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

\*\* ITEM 24: Cement Top - Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining  
 1594 West North Temple, Suite 1210  
 Box 145801  
 Salt Lake City, Utah 84114-5801  
 Phone: 801-538-5340  
 Fax: 801-359-3940

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0137  
Expires July 31, 2010

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.*

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

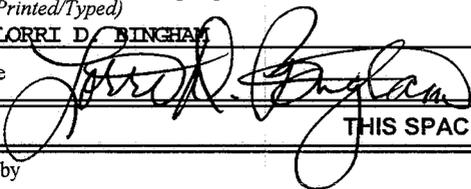
1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. <b>UT034705</b>
2. Name of Operator <b>XTO Energy Inc.</b>		6. If Indian, Allottee or Tribe Name
3a. Address <b>382 CR 3100 Aztec, NM 87410</b>	3b. Phone No. (include area code) <b>505-333-3100</b>	7. If Unit or CA/Agreement, Name and/or No. <b>BIG PACK UNIT</b>
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) <b>632' ENL &amp; 1972' FEL NWNE SEC 34-T11S-R20E</b>		8. Well Name and No. <b>BIG PACK UNIT #31- 34</b>
		9. API Well No. <b>43-047-36489</b>
		10. Field and Pool, or Exploratory Area <b>WILD CAT</b>
		11. County or Parish, State <b>UTNEAH UT</b>

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal
			<input type="checkbox"/> Water Shut-Off
			<input type="checkbox"/> Well Integrity
			<input checked="" type="checkbox"/> Other <b>RESCIND 1ST DELIVERY</b>

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

On 3/13/08, XTO Energy Inc. sent a first delivery sundry by mistake. XTO would like to rescind the 3/13/08 sundry.

14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) <b>LORRI D. BINGHAM</b>		Title <b>REGULATORY COMPLIANCE TECH</b>
Signature 		Date <b>7/18/08</b>

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by	Title	Date
	Office	

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**RECEIVED**  
**JUL 22 2008**

**DOGM COPY**

DIV. OF OIL, GAS & MINING

3A 115 20e

*The Road to Excellence Starts with Safety*

Sold To #: 353810		Ship To #: 2611740		Quote #:		Sales Order #: 6023785	
Customer: XTO ENERGY INC EBUSINESS				Customer Rep:			
Well Name: BPU			Well #: 31-34		API/UWI #:		
Field:		City (SAP): UNKNOWN		County/Parish: Uintah		State: Utah	
Job Purpose: Squeeze Perfs							
Well Type: Development Well				Job Type: Squeeze Perfs			
Sales Person: KRUGER, ROBERT			Srvc Supervisor: MOORE, JACK		MBU ID Emp #: 434804		

**Job Personnel**

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
GARCIA, MARCUS M		446107	KLEMMER, KEITH R		419047	MOORE, JACK Owen		434804

**Equipment**

HES Unit #	Distance-1 way						

**Job Hours**

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
7-11-08	5	5	7-12-08	5	5			

**TOTAL** Total is the sum of each column separately

Job				Job Times			
Formation Name	Formation Depth (MD)	Top	Bottom	Called Out	Date	Time	Time Zone
	7905. ft			11 - Jul - 2008	02:00	06:45	MST
Form Type	BHST			On Location	11 - Jul - 2008	08:00	MST
Job depth MD	7905. ft	Job Depth TVD	7905. ft	Job Started	11 - Jul - 2008	12:30	MST
Water Depth		Wk Ht Above Floor	5. ft	Job Completed	12 - Jul - 2008	12:20	MST
Perforation Depth (MD)	From 7,922.00 ft	To	8,017.00 ft	Departed Loc	12 - Jul - 2008		

**Well Data**

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbn/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
BRIDGE PLUG	Unknown							8067.	8068.	8067.	8068.
CEMENT RETAINER	Unknown							7905.	7906.	7905.	7906.
PRODUCTION CASING	New		4.5	4.	11.6		P-110		8946.		8946.
TUBING	Unknown		2.375	1.995	4.6		J-55		7905.		7905.
Perforation Interval								7922.	8017.	7922.	8017.

**Tools and Accessories**

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			
Stage Tool										Centralizers			

**Miscellaneous Materials**

Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc %
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty

RECEIVED

AUG - 1 2008

DIV. OF OIL, GAS & MINING

Fluid Data									
Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	SQUEEZE CEMENT	CMT - PREMIUM - CLASS G, 94 LB SK (100003685)	100.0	sacks	15.8	1.15	4.95	5.0	4.95
	94 lbm	CMT - PREMIUM - CLASS G REG OR TYPE V, BULK (100003685)							
	0.3 %	HR-5, 50 LB SK (100005050)							
	0.3 %	HALAD(R)-344, 50 LB (100003670)							
	0.3 %	HALAD(R)-413, 50 LB (100003738)							
	0.1 %	CFR-3, W/O DEFOAMER, 50 LB SK (100003653)							
	4.938 Gal	FRESH WATER							
Calculated Values		Pressures		Volumes					
Displacement		Shut In: Instant		Lost Returns		Cement Slurry		Pad	
Top Of Cement		5 Min		Cement Returns		Actual Displacement		Treatment	
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	
Rates									
Circulating		Mixing		Displacement		Avg. Job			
Cement Left In Pipe	Amount	44.86 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID		
The Information Stated Herein Is Correct				Customer Representative Signature					

AFA 716289  
 Acc. 165757  
 Acct. Code 248-37

RECEIVED

AUG - 1 2008

DIV. OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0137  
Expires July 31, 2010

**SUNDRY NOTICES AND REPORTS ON WELLS**

*Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.*

5. Lease Serial No.

**UT134705**

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

**BIG PACK UNIT**

8. Well Name and No.

**BIG PACK UNIT #31- 34**

9. API Well No.

**43-047-36489**

10. Field and Pool, or Exploratory Area

**WILDCAT**

**MANCOS**

11. County or Parish, State

**UINTAH**

**UT**

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well

Oil Well  Gas Well  Other

2. Name of Operator

**XTO Energy Inc.**

3a. Address

**382 CR 3100 Aztec, NM 87410**

3b. Phone No. (include area code)

**505-333-3100**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

**632' FNL & 1972' FEL NWNE SEC 34-T11S-R20E**

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <b>1ST DELIVERY</b>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	<b>AND EWOE</b>
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

**XTO Energy Inc. 1st delivered & put this well on pump on 11/6/2008. IFR 1,100 MCFPD.**

**Meter #RS0719RF.**

RECEIVED

NOV 11 2008

DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

**BARBARA NICOL**

Title **FILE CLERK**

Signature

*Barbara Nicol*

Date **11/11/08**

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

**DOG M COPY**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**RECORD  
CLEANUP**

FORM APPROVED  
OMB NO. 1004-0137  
Expires July 31, 2010

**SUNDRY NOTICES AND REPORTS ON WELLS**

*Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.*

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. <b>UTU-34705</b>
2. Name of Operator <b>XTO Energy Inc.</b>		6. If Indian, Allottee or Tribe Name
3a. Address <b>382 CR 3100 Aztec, NM 87410</b>	3b. Phone No. (include area code) <b>505-333-3100</b>	7. If Unit or CA/Agreement, Name and/or No. <b>BIG PACK UNIT</b>
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) <b>632' ENL &amp; 1972' BEL NWNE SEC 34-T11S-R20E</b>		8. Well Name and No. <b>BIG PACK UNIT #31- 34</b>
		9. API Well No. <b>43-047-36489</b>
		10. Field and Pool, or Exploratory Area <b>WILDCAT MANCOS</b>
		11. County or Parish, State <b>UINTAH UT</b>

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal
			<input type="checkbox"/> Water Shut-Off
			<input type="checkbox"/> Well Integrity
			<input checked="" type="checkbox"/> Other <u>WTR ISOL/</u>
			<u>PWOP</u>

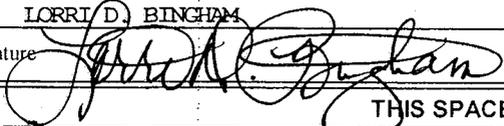
13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

XTO Energy Inc. isolated water and put this well on pump per the attached morning report.

**RECEIVED**

**APR 01 2009**

**DIV. OF OIL, GAS & MINING**

14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) <b>LORRI D. BINGHAM</b>		Title <b>REGULATORY ANALYST</b>
Signature 		Date <b>3/27/09</b>

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**DOGM COPY**

EXECUTIVE SUMMARY REPORT

1/1/2008 - 3/27/2009  
Report run on 3/27/2009 at 11:53 AM

Riverbend Unit 13-13E

Section 13-10S-19E, Uintah, Utah, Roosevelt  
Objective: SLU, XO BHBS to one w/SV  
Date First Report: 11/18/2008  
Method of Production: Plgr Lift

11/17/2008

SITP 81 psig, SICIP 99 psig. MIRU Production Logging Services SLU. RU & RIH w/fishing tls. SN @ 6,740'. Fish BHBS from SN. POH LD BHBS & fishing tls. RU & RIH w/1.65" BB, tag fill @ 6,865' FS. POH & LD 1.65" BB. RU & RIH w/1.908" tbg broach to SN, no tight spots found. POH, drpd new PCS BHBS w/SV. RIH and chased BHBS to SN w/tbg broach. POH & LD 1.908" tbg broach. SWI, RDMO Production Logging Services SLU.  
DWC: \$1,200.00 CWC: \$1,200.00

=====  
Riverbend Unit 13-13E  
=====

Job Contacts

Job Contact	Contact Title	Mobile Phone
Dale Fisher	Production Foreman	435-828-1438

EXECUTIVE SUMMARY REPORT

1/1/2008 - 3/7/2009  
 Report run on 3/7/2009 at 8:49 AM

Big Pack Unit 31-34

Section 34-11S-20E, Uintah, Utah, Roosevelt

Objective: PWOP/ Water Isolation  
 Date First Report: 6/13/2008  
 Method of Production: Flowing

- 6/14/2008 MIRU. Bd well. Open to production equipment for Weekend.
- 6/16/2008 ND WH, NU BOP. TIH w/3 jts 2-3/8" tbg. Tgd fill @ 8616'. TOH w/120 jts 2-3/8" tbg. Well KO flwg. Bd well to flow back tnk. Ppd 50 bbls 2% trtd KCL dwn csg to cntrl well. RU & RIH w/swb tls. Swbd tbg dry. TOH w/138 jts 2-3/8", 4.7#, J-55, EUE, 8rd tbg, SN w/mule shoe col. Ld plngr & BHBS. SWI SDFN.
- 6/18/2008 Bd well to flw back tnk. Ppd 60 bbls trtd 2% KCL dn csg to cntrl well. TIH w/261 jts 2-3/8", 4.7#, J-55, 8rd, EUE, 3.875" Rock bit & string mill. Tag fill @ 8,612.12'. RU pwr swivel. Estb circ w/AFU. 30" circ 1700 psig/.25 bbls minute. Drlg hd. CIBP (8600' WL meas). Well KO flwg, 400 psig thru 2". Recd 215 BW. Ppd 35 bbls trtd 2% KCL dn tbg to cntrl well. TOH w/261 jts 2-3/8" tbg & bha. Ld bit & mill. PU 4.5" pkr, 6'- 2 3/8" N80 pup, 4.5" rbp & retrg tls. TIH w/258 jts 2-3/8", 4.7#, J-55, 8rd, EUE & bha. Set pkr @ 8,506' (25k wt). Ppd 125 bbls trtd 2% KCL ttl. Recd 235 BW. SWI SDFN.
- 6/19/2008 Bd tbg to flw back tnk. Bd in 10". Swab zone 1 (MV 8545-8550') 8 runs for 64.5 BW 0 BO. Rlsd pkr, pld 1jt 2-3/8", J-55 4.7# 8rd EUE tbg, set RBP @ 8,475', pld 2 jts 2-3/8" J-55 4.7# 8rd EUE tbg, set pkr @ 8,407'. RU swab tls. Swab Zone 2 (MV 8,436'-8,441') 6 runs for 31 BW 0 BO. SWI. SDFN.
- 6/20/2008 Bd tbg to flw back tnk. Bd in 15". Swab tst MV zone 2 fr/8436' - 8441'. BFL @ 5600' FS. S. 0 BO, 9 BW, 3 runs, FFL @ 6300' FS w/ blow on tbg. Rlsd pkr, wkd tls to rls rbp. Rlsd rbp. TIH tag fill @ 8630' (CIBP set @ 8600'). TOH w/ pkr, 6' 2-3/8" pup, rbp, 261 jts 2-3/8" tbg. Ld pkr, pup, rbp for insp. SWI. SDFN.
- 6/21/2008 RU WLU, RIH w/3.75" GR. Tag @ 8,627'. POH. PU 3.50" CIBP. RIH & set CIBP @ 8,595'. POH. PU 3"x 42' dmp blr w/2 sacks cl G cmt. RIH & dmpt cmt on CIBP @ 8,595', POH. LD tls, RDMO WLU. TIH w/261 jts 2-3/8" J-55 4.7# 8rd EUE tbg & 4.5" pkr. Set pkr 8,563'. Ppd 7 bbls trt 2% KCl fill tbg. PT CIBP, pkr, tbg to 5000 psig/15", tst Gd. Pld 6 jts (8367'). SWI. SDFWE.
- 6/24/2008 Bd well to flt tnk. Ppd 10 bbls trt 2% KCL dn tbg to cntrl well. RIH w/4 jts 2-3/8" J-55 4.7# 8rd tbg. Set pkr @ 8,506' to isol Zone #1. Swab line parted on 1st run. Bd csg. Rls pkr, TOH w/pkr. Recd 275' sd line and swab tls. TIH w/4.5" RBP, retrg tls, 4.5" pkr, 259 jts 2-3/8" J-55 tbg. Set pkr @ 8506' (Zone 1). RU swab tls, Swab 1 run for 7 bbls, Init fld 1600'. 80bbls 2% KCl ppd to cntrl well. SWI. SDFN.
- 6/25/2008 Bd tbg to flt tnk, tbg bd in 10". Swab Zone 1. 9 runs for 0 BO. 47.5 BW. Init Fld lvl 1,500'. Fnl fld lvl 7,000'. Rlsd 4.5" pkr. Ppd 10 bbls trt 2% KCl dn tbg to cntrl well. Movd to Zone 2. RBP set @ 8,506', Pld 4 jts 2-3/8" tbg, set 4.5" pkr @ 8,373' (254 jts). MV perms fr/8,436'- 8,441'. SWI. SDFN.
- 6/26/2008 Bd tbg to flt tnk, tbg bd in 15". Swab Zone 2. 8 runs for BO 0 BW 40. Init Fld lvl 1,500'. Fnl fld lvl 6,000'. Rlsd 4.5" pkr, TIH to rls RBP. Move to Zone 3. TOH 8 jts 2-3/8" tbg. Set RBP @ 8106'. TOH 6 jts 2-3/8" tbg. Set pkr @ 7,900' (240 jts 2-3/8" J-55 tbg). Ppd 10 bbls trt 2% KCl dn tbg to cntrl well. MV perms fr/7,922'- 8,017'. Swab Zone 3. 4 runs for BO 0, BW 30. Init fld lvl 2000'. Fnl fld lvl 3000'. SWI. SDFN.

EXECUTIVE SUMMARY REPORT

1/1/2008 - 3/7/2009  
Report run on 3/7/2009 at 8:49 AM

- Big Pack Unit 31-34 -----  
6/27/2008 Bd tbg to flt tnk, tbg bd in 15". RIH w/swb tls & tst MV Zone # 3. BFL 800' FS. S. 0 BO, 92.5 BW, 13 runs, 6-1/2 hrs, FFL 2,400' FS. Bd csg to flt tnk, csg bd in 15". Rlsd 4.5" pkr & TIH, latched onto & rls RBP. Move to Zone 4. TOH 6 jts 2-3/8" tbg. Set RBP @ 7906'. TOH 4 jts 2-3/8" tbg. Set pkr @ 7,779' w/234 jts 2-3/8". Ppd 20 bbls trt 2% KCl dwn tbg to cntrl well. MV perfs fr/7,810'- 7,873'. RU & RIH w/swb tls, tst Zone # 3. BFL @ 1,500', S. 0 BO, 26 BW, 4 runs, 1.5 hrs, FFL @ 2,300' FS. RD swb tls. SWI. SDFN.
- Big Pack Unit 31-34 -----  
6/28/2008 Bd tbg to flt tnk, tbg bd in 15". RIH w/swb tls & tst MV Zone # 4. KO well flwg for 5 hrs. BFL 3200' FS. S. 0 BO, 42.5 BW, 4 runs, 6.0 hrs, FFL 3,800' FS. Bd csg to flt tnk, csg bd in 15". Rlsd 4.5" pkr & TIH, latched onto & rls RBP. Move to Zone 5. TOH 14 jts 2-3/8" tbg. Set RBP @ 7450'. TOH 4 jts 2-3/8" tbg. Set pkr @ 7,317' w/222 jts 2-3/8" tbg. Ppd 20 bbls trt 2% KCl dwn tbg to cntrl well. MV perfs fr/7,358'- 7,362'. RU & RIH w/swb tls, tst Zone # 5. BFL @ 1,500', S. 0 BO, 26 BW, 4 runs, 1.5 hrs, FFL @ 2,300' FS. RD swb tls. SWI. SDFN.
- Big Pack Unit 31-34 -----  
7/1/2008 Bd tbg to flt tnk, tbg bd in 15". RIH w/swb tls & tst MV Zone # 5. BFL 1800' FS. S. 0 BO, 72. BW, 12 runs, 6.0 hrs, FFL 5,000' FS. Bd csg to flt tnk, csg bd in 15". Rlsd 4.5" pkr & TIH, latched onto & rls RBP. Move to Zone 6. TOH 3 jts 2-3/8" tbg. Set RBP @ 7,305'. TOH 3 jts 2-3/8" tbg. Set pkr @ 7,198' w/208 jts 2-3/8" tbg. Ppd 10 bbls trt 2% KCl dwn tbg to cntrl well. MV perfs fr/7,230'- 7,293'. RU & RIH w/swb tls, tst Zone # 6. BFL @ 2,000', S. 0 BO, 35 BW, 35 runs, 3.0 hrs, FFL @ 3,200' FS. RD swb tls. SWI. SDFN.
- Big Pack Unit 31-34 -----  
7/2/2008 Bd tbg to flt tnk, tbg bd in 20". RIH w/swb tls & tst MV Zone # 6. BFL 2800' FS. S. 0 BO, 29.5 BW, 12 runs, 6.0 hrs, FFL 5,200' FS. Bd csg to flt tnk, csg bd in 15". Rlsd 4.5" pkr & TIH, latched onto & rls RBP. Move to Zone 5. TIH 4 jts 2-3/8" tbg. Set RBP @ 7,450'. TOH 3 jts 2-3/8" tbg. Set pkr @ 7,318' w/222 jts 2-3/8" tbg. Ppd 10 bbls trt 2% KCl dwn tbg to cntrl well. MV perfs fr/7,358'- 7,362'. RU & RIH w/swb tls, tst Zone # 5. BFL @ 2,500', S. 0 BO, 34 BW, 4 runs, 2.0 hrs, FFL @ 3,500' FS. RD swb tls. SWI. SDFN.
- Big Pack Unit 31-34 -----  
7/3/2008 Bd tbg to flt tnk, tbg bd in 20". RIH w/swb tls & tst MV Zone # 5. BFL 2000' FS. S. 0 BO, 59.5 BW, 13 runs, 7.0 hrs, FFL 4,800' FS. Bd csg to flt tnk, csg bd in 15". Rlsd 4.5" pkr & TIH, latched onto & rls RBP. Move to Zone 7. TOH 3 jts 2-3/8" tbg. Set RBP @ 7,215'. TOH 3 jts 2-3/8" tbg. Set pkr @ 7,093' w/214 jts 2-3/8" tbg. Ppd 20 bbls trt 2% KCl dwn tbg to cntrl well. MV perfs fr/7,134'- 7,185'. RU & RIH w/swb tls, tst Zone # 7. BFL @ 4,400', S. 0 BO, 18 BW, 3 runs, 1.0 hrs, FFL @ 3,000' FS. RD swb tls. SWI. SDFN.
- Big Pack Unit 31-34 -----  
7/4/2008 Bd tbg to flt tnk, tbg bd in 15". RIH w/swb tls & tst MV Zone # 7. BFL @ 2400' FS. S. 0 BO, 7 BW, 1 run, KO well flwg. F. 0 BO, 76.5 BW, 7 hrs, FTP 10 - 100 psig, SICP 800 psig, 2"-20/64" ck. Bd csg to flt tnk, csg bd in 15". Rlsd 4.5" pkr & TIH, latched onto & rls RBP. Move to Zone 8. TOH w/3 jts 2-3/8" tbg. Set RBP @ 7,070'. TOH w/3 jts 2-3/8" tbg. Set pkr @ 6,989' w/202 jts 2-3/8" tbg. Ppd 20 bbls trt 2% KCl dwn tbg to cntrl well. MV perfs fr/7,040'- 7,046'. RU & RIH w/swb tls, tst Zone # 8. BFL @ 2,000', S. 0 BO, 24 BW, 2 runs, 1.5 hrs, KO well flwg. RD swb tls. SWI. SDFWE.
- Big Pack Unit 31-34 -----  
7/8/2008 Bd tbg to flt tnk, tbg Bd in 10". RIH w/swb tls & tst MV Zone # 8. BFL @ 800' FS. KO well flwg w/1 run. F. 0 BO, 40 BW, 6.0 hrs. Bd csg to flt tnk, csg Bd in 10". Rlsd 4.5" pkr & TIH, latched onto & rls RBP. Move to Zone 9. TOH w/3 jts 2-3/8" tbg. Set RBP @ 6,877'. TOH w/4 jts 2-3/8" tbg. Set pkr @ 6,792' w/204 jts 2-3/8" tbg. Ppd 20 bbls trt 2% KCl dwn tbg to cntrl well. MV perfs fr/6,804'- 6,845'. RU & RIH w/swb tls, tst Zone # 9. BFL @ 1,200' FS, S. 0 BO, 24.5 BW, 4 runs, 2.0 hrs. RD swb tls. SWI. SDFN.

EXECUTIVE SUMMARY REPORT

1/1/2008 - 3/7/2009
Report run on 3/7/2009 at 8:49 AM

- 7/9/2008 Big Pack Unit 31-34 Bd tbg to flt tnk, tbg bd in 10". RIH w/swb tls & tst UB Zone # 9b. BFL 3000' FS. S. 0 BO, 40 BW, 9 runs, 6.0 hrs, KO flwg. Bd csg to flt tnk, csg bd in 10". Rlsd 4.5" pkr & TIH, latched onto & rlsd RBP. Move to Zone 10. TOH w/32 jts 2-3/8" tbg. Set RBP @ 5,822'. TOH w/4 jts 2-3/8" tbg. Set pkr @ 5,677' w/172 jts 2-3/8" tbg. Ppd 20 bbls trt 2% KCl dwn tbg to cntrl well. Wasatch perms fr/5,708'- 5,716'. RU & RIH w/swb tls, tst Zone # 10a. Well flwg, F. 0 BO, 21 BW, 0 runs, 2.0 hrs. RD swb tls. SWI. SDFN.
7/10/2008 Big Pack Unit 31-34 Bd tbg to flt tnk, tbg bd in 10". RIH w/swb tls & tst Wasatch Zone # 10b. BFL 4400' FS. S. 0 BO, 6 BW, 2 runs, 4.0 hrs, KO flwg. Bd csg to flt tnk, csg bd in 10". Rlsd 4.5" pkr & TIH, latched onto & rls RBP. TOH w/RBP & PKR, LD tls. RU WL, RIH w/4.5" CBP. Set CBP @ 8,100'. POH, PU & RIH w/4.5" CICR, set ret @ 7,905'. Prep to Sqz Zone 3 fr/7922'-8017'). Ppd 80 bbls trt 2% KCl dwn tbg to cntrl well. RDMO WL. SWI. SDFN.
7/11/2008 Big Pack Unit 31-34 Bd csg to flt tnk, csg bd in 10". TIH w/240 jts 2-3/8" tbg & CICR stinger & 1-4' 2-3/8" pup jts w/30k in compression. Sting into CICR @ 7905'. Pmp in tst to 3500 psig. 0 AIR. SI well. 3500 psig bled to 1800 psig in 27". Ppd 50 bbls trt 2% KCl dwn tbg to cntrl well. Notify BLM for 24 hr : Bill Owens (435-781-4498) & Ryan Angus (435-781-4430). Notify State of Utah O&G: Dave Hackford (435-722-3417). SWI. SDFN.
7/12/2008 Big Pack Unit 31-34 Bd tbg to flat tnk, tbg Bd in 10". RU HES pmp. Pmp in tst to 6000 psig w/O IR. Wkrd tbg & CICR stinger. Bd tbg to flat tnk, tbg Bd in 10". RD HES. RIH w/swab tls, Swab tst MV zone 3. BFL @ surf. S. 0 BO. 27 BW. 5 runs, 1.5'. FFL @ 5600' FS. RU HES pmp. Pmp in tst to 6000 psig. 0 IR. Bled 6000 psig to 5870 psig in 30". RD HES. RIH w/swab tls, Swab tst MV zone 3. BFL @ surf. S. 0 BO. 38 BW. 6 runs, 2 hrs 45", FFL @ 2200 FS. Well gassing. RU rig pmp, Pmp in tst, ppd 20 bbls. EIR of 1.5 BPM @ 1900 psig to .5 BPM @ 2300 psig. 0.5 BPM AIR. SWI. SDFN.
7/13/2008 Big Pack Unit 31-34 Bd tbg to flt tnk, Tbg Bd in 10" thru 2" ck. MIRU HES cmt pmp trk & mnfd. PT lines & vlvs to 8,000 psig. EIR of 1.0 bpm @ 1,900 psig w/16 bbl 2% KCL trtd w/ biocide, sc inhibitor, dwn tbg. Ppd 10 BFW ahead. Cmt squeeze MV Wells perms fr/7,922' - 8,017', w/Lead - 88 sxs Premium cmt, yield 1.15 cu ft per sx, 22 bbl slurry, mxd @ 15.8 lb/gal w/ 4.93 gal wtr per sx. Displ cmt to CICR @ 7,905' w/32 bbl FW. ISITP 4000 psig, 5" SITP 3,740 psig. Relsd press & stingout of CICR. LD 1 - 4' pup jt & TOH 25 jts, tbg pulling dry. Rev circ to CO tbg w/65 bbl 2% KCL trtd w/biocide, sc inhibitor. Rets incl wtr w/no cem. SWI. SDFWE.
7/15/2008 Big Pack Unit 31-34 CICR 7,905'. CBP 8,100'. TOH & LD CICR stinger tl. TIH w/3.75" Hurricane mill, strg mill & 220 jts 2-3/8" tbg. Tgd cmt stringers @ 7,249'. Estb circ w/AFU. DO cmt fr/7,249' - 7,475' (226' cmt stringers). Drlg fast. Circ cln 45". TOH w/10 jts 2-3/8" tbg. SWI. SDFN.
7/15/2008 Big Pack Unit 31-34 CICR 7,905'. CBP 8,100'. TIH w/3.75" Hurricane mill, strg mill & 230 jts 2-3/8" tbg, tgd cmt stringers @ 7,743'. Estb circ w/AFU. DO cmt fr/7,743' - 7,905' (162' cmt stringers). Cmt @ 7785' to 7875' hard, no cmt fr/7875' - 7905'. DO CICR @ 7,905' in 100". Cont TIH w/mill & strg mill, tag CBP @ 8100' w/no cmt abv plg. Circ cln, 45". POH w/245 jts 2-3/8" tbg, LD Hurricane mill & strg mill. Ppd 80 bbls 2% KCl w/AFU. SWI & SDFN.
7/16/2008 SICP 300 psig. CBP 8,100'. TIH w/5-1/2" pkr & 240 jts 2-3/8" tbg to 7,914'. Set pkr @ 7914'. Attd to PT zone 3 cmt sqz to 1500 psig. PT bled down in 30" to 0 psig. RU Swab tls. Swab tst Zone 3. BFL @ surf. S. 0 BO, 32 BLW. 7 runs, FFL @ 4000' FS. Ppd 20 bbls 2% KCl to cntrl well for day. SWI. SDFN.
Big Pack Unit 31-34

EXECUTIVE SUMMARY REPORT

1/1/2008 - 3/7/2009  
Report run on 3/7/2009 at 8:49 AM

- 7/17/2008 CBP 8,100'. RU & RIH w/swb tls. Ln parted & lost tls on 1st run. Repl tls & swb tst MV zone 3. BFL 1000' FS, 5 runs, recd 0 BO, 18.5 BW, FFL @ 4000' FS. Bd csg to flt tnk, csg Bd in 5". Rlsd pkr & TOH w/pkr & 240 jts 2-3/8" J-55 tbg. LD pkr, recd swb tls & 200' swb line. RU WL, RIH w/CICR & CCL. Correlate to 12/02/07 Log. Set CICR @ 7910'. POH & LD setting tls. RDMO WL. SWI. SDFN.
- Notify BLM of 2nd Sqz. Jamie Sprager, Vernal office.
- 7/18/2008 ----- Big Pack Unit 31-34 -----  
CBP 8,100'. Bd csg to flt tnk, csg Bd in 5" thru 2". TIH w/CICR stinger & 240 jts J-55 tbg. Sting into CICR, set 37,000 lbs on stinger. MIRU HES for cmt sqz. PT lines & vlvs to 7,000 psig. EIR of 1 bbl/min @ 3590 psig & 1.5 bbl/min @ 3900 psig. Ppd 100 sxs class 'G' cmt in to Zone 3 (MV fr/7922' - 8017'), w/Lead-100 sx Premium cmt, yield 1.15 cu ft/sx, 30.6 bbls slurry, mxcd @ 15.8 lb/gal w/4.95 gal FW/sx. Displ cmt to .25 bbls past CICR w/32 bbl 2% trtd KCl. AIR 1bbls/min, Max trt press of 4400 psig. ISIP 4400 psig, 5 min 3900 psig. Rel press- FB> 1 BLW to FB tnk. Stingout of CICR. Rev circ to CO tbg w/50 bbls 2% trtd KCl. Tbg flwg, 20", Rets incl wtr w/no cmt. LD 1-4' pup jt TOH w/240 jts tbg & CICR stinger. LD Stinger. SWI. SDFWE.
- 7/21/2008 ----- Big Pack Unit 31-34 -----  
CBP 8,100'. Bd csg to flt tnk, csg Bd in 5" thru 2". TIH w/3.75" Hurricane mill, string mill & 226 jts J-55 tbg. Tg cmt stringers @ 7,518'. RU AFU & estb circ in 15" w/2% trtd KCl wtr. DO cmt stringers, drlg fast (3'/min) fr/7,518' - 7,908'. Hd cmt fr/7,908' - 7,910'. Tgd CICR @ 7,910' (240 jts tbg). DO CICR in 3' 45". DO hd cmt fr/7,911' - 8,055'. Circ cln 30". RD pwr swivel, TOH w/30 jts, EOT @ 7,051'. SWI & SDFN.
- 7/22/2008 ----- Big Pack Unit 31-34 -----  
CBP 8,100'. Bd csg to flt tnk, csg Bd in 35" thru 2". Ppd 40 bbls 2% trtd KCl to cntrl well. TIH w/4.5" pkr & 240 jts J-55 tbg, set pkr @ 7,905'. Pt sqzd MV zone #3 (7,922' - 8017') to 500 psig. Press bled off to 350 psig in 30". Bd tbg to flat tnk, tbg Bd in 5" thru 2". RU & RIH w/swb tls & tst MV Zone 3 for fld entry. BFL @ surf. S. 0 BO, 20 BW, 6 runs, 4.5 hrs, FFL @ 7000' FS. Bd csg to flt tnk, csg bd in 5". Rlsd 4.5" pkr, TOH w/BHA & 98 jts. EOT @ 4,245'. SWI. SDFN.
- 7/23/2008 ----- Big Pack Unit 31-34 -----  
CBP 8,100'. Bd to flt tnk, Bd in 20" thru 2". Ppd 20 bbls 2% trtd KCl to cntrl well. TOH w/165 jts 2-3/8" tbg & LD pkr. PU 3.75" Hurricane ill & strg mill. TIH w/BHA & 243 jts 2-3/8" J-55 tbg. Tag TOC @ 8,063'. RU Pwr swivel & estb circ w/AFU, 70". DO cmt to 8100' (CBP), 2 hrs 45". DO CICR debris, cmt & CBP @ 8100', 4 hrs. Circ cln w/140 bbls 2% KCl. SWI. SDFN.
- 7/24/2008 ----- Big Pack Unit 31-34 -----  
Bd to flt tnk, Bd in 20" thru 2". TIH w/2 jts 2-3/8" tbg. Tgd cmt @ 8,100'. RU Pwr swivel & estb circ w/AFU, 35". DO fr/8100' - 8,580', 5 hrs. Circ well cln. AFU ppd 125 bbls 2% KCl wtr. LD pwr swivel. TOH w/tbg & BHA, LD Hurricane mill & strg mill. RU Hydril. SWI & SDFN.
- 7/25/2008 ----- Big Pack Unit 31-34 -----  
Bd to flt tnk, Bd in 10" thru 2". TIH w/ms, Tic Tac slimhole 4.5X2-3/8" TAC (1" port, set w/13,000lbs in tension), 10'x2-3/8" N80 sub, 2'x 2-3/8" J-55 sub, 1.1'x 2-3/8" API SN(8,534'), 259 jts J-55 2-3/8" tbg (EOT 8,560') w/1/4" ss capillary banded to tbg. LD tbg. RU tree w/capillary vent. SWI. SDFWE.
- 7/28/2008 ----- Big Pack Unit 31-34 -----  
Bd to flt tnk, Bd in 5" thru 2" ck. RU swb tls. BFL 2,000'. S. 0 bbl O, 25.5 BLW, 6 runs. FFL 3,000'. FTP 0 psig - sl blow. SICP 250 psig. SWI. RDMO. Rpts suspnd until further acitivity.
- 7/29/2008 ----- Big Pack Unit 31-34 -----
- 8/1/2008 ----- Big Pack Unit 31-34 -----
- 9/11/2008 Bd well thru 2" ck 5 min. RU Swb tls, Swb 0 BO, 31 BLW, 8 runs. RD swb tls. PU & loaded 2-1/2" x 1-1/2" x 19' RHAC pmp w/8' GAC. TIH w/pmp, 21K shear tl, 8 - 1-1/4" sbs, 36 - 3/4" gr 'D' guided skr d & 196 - 3/4" gr 'D' plain skr d. SWI & SDFN

**EXECUTIVE SUMMARY REPORT**

1/1/2008 - 3/7/2009  
Report run on 3/7/2009 at 8:49 AM

---

9/12/2008      ===== Big Pack Unit 31-34 =====  
SITP 0 psig. FCP 100 psig. Bd to flt tnk, Bd in 5" thru 2" ck. Cont PU &  
TIH w/100 - 3/4" gr 'D' plain skr d, 3 - 3/4" rod subs ( 2', 4' & 8' ) & 1-  
1/4" x 26' PR w/16' lnr. Seated pmp & PT tbg 500 psig, 5" tstd gd. LS pmp  
w/rig to 500 psig, gd PA. SWO & clamped off rods, Unable to RWTP, waiting  
on Telemetry & PU installations. SWI & SDFN.

11/6/2008      ===== Big Pack Unit 31-34 =====  
The Big Pack Unit 31-34 was put on Pump 10/6/2008 @ 12:00 p.m.



# United States Department of the Interior



## BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, UT 84145-0155

<http://www.blm.gov/ut/st/en.html>

IN REPLY REFER TO:  
3160 – UTU82244X  
(UT922100)

**JUN 21 2012**

Ms. Rebecca Bodenhamer  
XTO Energy Inc.  
810 Houston Street  
Fort Worth, TX 76102-6298

RECEIVED

**JUN 22 2012**

DIV. OF OIL, GAS & MINING

Re: Well Determinations  
Big Pack Unit  
Uintah County, Utah

Dear Ms. Bodenhamer:

Pursuant to your request of May 31, 2012, modified by email on June 12, 2012, it has been determined by this office that under existing conditions the following wells within the Big Pack Unit are capable of producing unitized substances in paying quantities as defined in Section 9 of the unit agreement.

API Number	Well Name	Location	Completion Date
4304736939	3-27H	NE $\frac{1}{4}$ NW $\frac{1}{4}$ Section 27 T11S R20E SLB&M	10/17/2008
4304736555	41-3	NE $\frac{1}{4}$ NE $\frac{1}{4}$ Section 3 T12S R20E SLB&M	10/07/2008

Please file appropriate Participating Area applications for these wells at your earliest convenience.

Pursuant to the same request, it has been determined by this office that under existing conditions the following wells are not capable of producing unitized substances in paying quantities as defined in Section 9 of the unit agreement.

API Number	Well Name	Location	Completion Date	Lease
4304736488	32-22	SW $\frac{1}{4}$ NE $\frac{1}{4}$ Section 22 T11S R20E SLB&M	08/10/2006	UTU76267
4304736489	31-34	NW $\frac{1}{4}$ NE $\frac{1}{4}$ Section 34 T11S R20E SLB&M	12/21/2007	UTU34705
4304740008	3-23H	NE $\frac{1}{4}$ NW $\frac{1}{4}$ Section 23 T11S R20E SLB&M	02/09/2009	UTU76267

All past and future production from these wells shall be handled and reported on a lease basis.



## United States Department of the Interior

### BUREAU OF LAND MANAGEMENT

Utah State Office

440 West 200 South, Suite 500

Salt Lake City, UT 84101-1345

<http://www.blm.gov/ut/st/en.html>



IN REPLY REFER TO:  
3180 (UTU82244X)  
UT-922000

SEP 09 2015

RECEIVED

SEP 14 2015

DIV. OF OIL, GAS & MINING

Mr. Paul Keffer  
XTO Energy Inc.  
810 Houston Street  
Fort Worth, Texas 76102

Re: Automatic Contraction  
Big Pack Unit - *See attached list*  
Uintah County, Utah

Dear Mr. Keffer:

Your letter of August 27, 2015, describes the lands automatically eliminated effective July 1, 2015, from the Big Pack Unit Area, located in Uintah County, Utah, pursuant to Section 2(e) of the unit agreement and requests our concurrence. The lands you have described contain 19,038.63 acres more or less, and constitute all legal subdivisions, no parts of which are included in the Wasatch-Mesaverde Participating Area. As a result of the automatic contraction, the unit is reduced to 639.99 acres.

The following Federal Leases are entirely eliminated from the unit area:

UTU75133	UTU76271
UTU76037	UTU81431
UTU76268	UTU81722
UTU76269	UTU81723
UTU76270	

The following Federal Leases are partially eliminated from the unit area:

UTU34705  
UTU76266  
UTU76267  
UTU76311

You have complied with the requirements of Section 2(e), provided you promptly notify all interested parties.

If you have any questions, please contact Judy Nordstrom at (801) 539-4108.

Sincerely,



Roger L. Bankert  
Chief, Branch of Minerals

Enclosure

cc: UDOGM  
SITLA  
ONRR w/Exhibit "B" (Attn: Curtis Link)  
BLM FOM - Vernal w/enclosure

Wells removed from Unit

WELL_NAME	API	SECTION	TOWNSHIP	RANGE	ENTITY	UNIT_NAME
WILLOW CREEK UNIT 1	4304731775	27	110S	200E	10804	BIG PACK
BIG PACK U 32-22	4304736488	22	110S	200E	14929	BIG PACK
BIG PACK U 31-34	4304736489	34	110S	200E	14961	BIG PACK
BPU 2-14H	4304740000	14	110S	200E	17295	BIG PACK
BPU 3-23H	4304740008	23	110S	200E	17217	BIG PACK
BPU 13-02M	4304752230	02	120S	200E	18787	BIG PACK