

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

SUBMIT IN TRIPLICATE\*

FORM APPROVED  
OMB NO. 1040-0136  
Expires: February 28, 1995

<b>APPLICATION FOR PERMIT TO DRILL OR DEEPEN</b>		<b>5. LEASE DESIGNATION AND SERIAL NO.</b> UTU-80636
TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/>		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</b> N/A
TYPE OF WELL <input checked="" type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE OIL WELL GAS WELL OTHER		<b>7. UNIT AGREEMENT NAME</b> STIRRUP SOUTH
<b>2. NAME OF OPERATOR</b> QUESTAR EXPLORATION & PRODUCTION, CO.		<b>8. FARM OR LEASE NAME, WELL NO.</b> SSU 2G-3-8-21
<b>3. ADDRESS</b> 11002 E. 17500 SO. Vernal, Ut 84078		<b>9. API NUMBER:</b> 43-047-40159
<b>4. LOCATION OF WELL</b> (Report location clearly and in accordance with and State requirements*) At Surface <u>NWNE</u> 842' FNL 1958' FEL, LOT 2, SECTION 3, T8S, R21E At proposed production zone See Attached Sheet		<b>10. FIELD AND POOL, OR WILDCAT</b> <del>UNDESIGNATED</del> <u>Wong's Valley</u>
<b>14. DISTANCE IN MILES FROM NEAREST TOWN OR POSTOFFICE*</b> 41 +/- MILES SOUTH OF VERNAL, UTAH		<b>11. SEC., T, R, M, OR BLK &amp; SURVEY OR AREA</b> SEC. 3 T8S, R21E Mer SLB&M <u>710</u>
<b>15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.</b> (also to nearest drig, unit line if any) 600' +/-	<b>16. NO. OF ACRES IN LEASE</b> 1281.12	<b>12. COUNTY OR PARISH</b> Uintah <b>13. STATE</b> UT
<b>18. DISTANCE FROM PROPOSED location to nearest well, drilling, completed, applied for, on this lease, ft</b>	<b>19. PROPOSED DEPTH</b> 9,360' MD	<b>17. NO. OF ACRES ASSIGNED TO THIS WELL</b> 40
<b>21. ELEVATIONS</b> (Show whether DF, RT, GR, ect.) 4742.0' GR	<b>22. DATE WORK WILL START</b> ASAP	<b>20. BLM/BIA Bond No. on file</b> ESB000024
<b>24. Attachments</b>	<b>23. Estimated duration</b> 30 Days	

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 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. |

SIGNED Jan Nelson Name (printed/typed) Jan Nelson DATE 06/17/2008  
TITLE Regulatory Affairs

(This space for Federal or State office use)

PERMIT NO. 43-047-40159 APPROVAL DATE \_\_\_\_\_  
Application approval does not warrant or certify the applicant holds any 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:  
APPROVED BY Bradley G. Hill TITLE ENVIRONMENTAL MANAGER DATE 06-23-08  
\*See Instructions On Reverse Side

Title 18 U.S.C Section 1001, 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

**CONFIDENTIAL**

**Federal Approval of this  
Action is Necessary**

**RECEIVED  
JUN 19 2008**

DIV. OF OIL, GAS & MINING

**Additional Operator Remarks for Bottom Hole Location and Lease Designation:**

**SSU 2G-3-8-21 (SURFACE LOCATION)** 624501X 40.157751  
LEASE # UTU-80636 4446080Y -109.538148  
842' FNL 1958' FEL, LOT 2, Section 3, T8S, R21E

**LATERAL # 1 (BOTTOM HOLE LOCATION)**

LEASE # UTML-2785 625414X 40.153917  
SW ¼ NW ¼, 2300' FNL 1000' FWL, Section 2, T8S, R21E 4445670Y -109.527510

**LATERAL # 2 (BOTTOM HOLE LOCATION)**

LEASE # UTU-80636  
NE ¼ NE ¼, 1100' FNL 600' FEL, SECTION 4, T8S, R21E 623301X 40.156855  
4445961Y -109.552262



# T8S, R21E, S.L.B.&M.

## QUESTAR EXPLR. & PROD.

Well location, SSU #2G-3-8-21, located as shown in LOT 2 of Section 3, T8S, R21E, S.L.B.&M., Uintah County, Utah

### BASIS OF ELEVATION

BENCH MARK 20EAM LOCATED IN THE SE 1/4 OF SECTION 35, T8S, R21E, S.L.B.&M. TAKEN FROM THE OURAY SE, 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 4697 FEET.

### BASIS OF BEARINGS

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



SCALE

### CERTIFICATE

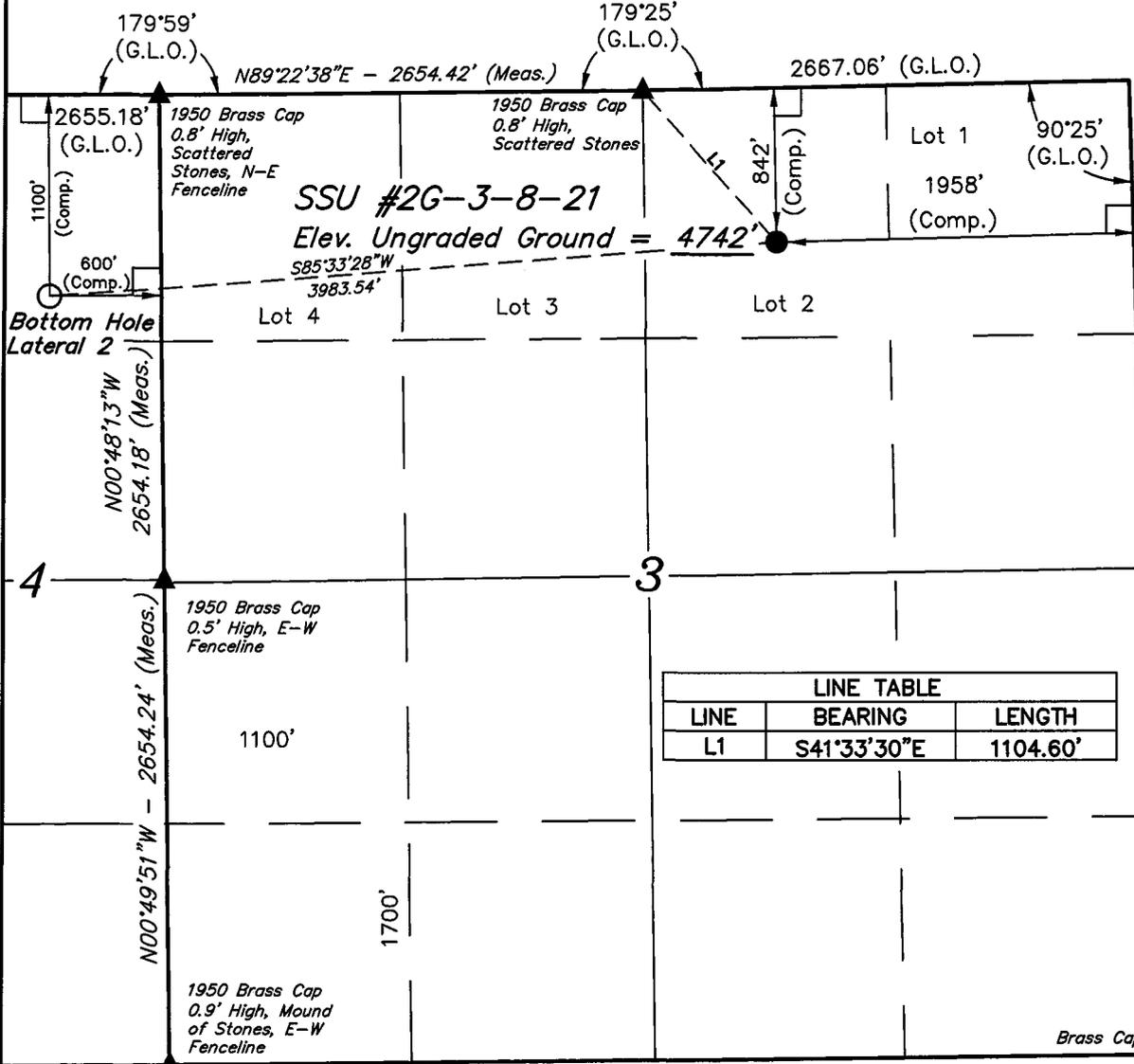
THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

**ROBERT KAY**  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 161319  
STATE OF UTAH

REVISED: 06-10-08

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

SCALE 1" = 1000'	DATE SURVEYED: 06-21-07	DATE DRAWN: 07-23-07
PARTY D.A. T.A. L.K.	REFERENCES G.L.O. PLAT	
WEATHER HOT	FILE QUESTAR EXPLR. & PROD.	



S89°15'W 2655.18' (G.L.O.)  
S89°21'37"W - 5301.49' (Meas.)

### LEGEND:

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.
- △ = SECTION CORNERS RE-ESTABLISHED (NOT SET ON GROUND)

(NAD 83)  
LATITUDE = 40°09'27.53" (40.157647)  
LONGITUDE = 109°32'19.39" (109.538719)  
(NAD 27)  
LATITUDE = 40°09'27.66" (40.157683)  
LONGITUDE = 109°32'16.91" (109.538031)

## **Additional Operator Remarks**

Questar Exploration & Production Company proposes to drill a horizontal well to test the Green River formation. If productive, casing will be run and the well completed. If dry, the well will be plugged and abandoned as per BLM and State of Utah requirements"

See Onshore Oil & Gas Order No. 1

Please see Questar Exploration & Production Company Standard Practices for Green River Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench and undesignated fields in Township 08 South, Ranges 22East.

Please be advised that Questar Exploration & Production Company agrees to be responsible under the terms and conditions of the lease for the operations conducted upon the lease lands.

Bond coverage for this well is provided by Bond No.ESB000024. The principal is Questar Exploration & Production Company via surety as consent as provided for the 43 CFR 3104.2.

## SSU 2G-3-8-21

### New Dual Horizontal Well

### Summarized Procedure

1. MIRU air rig.
2. Drill 12 ¼" surface hole to 480'±.
3. Run 9 5/8", 36#, J-55, STC casing and cement to surface.
4. RD air rig, move off location.
5. MIRU drilling rig.
6. NU rig's 3,000 WP rated BOP. Test BOP's and surface casing.
7. PU straight hole BHA, drill out surface casing and 10' of new formation, run FIT.
8. Drill 8 ¾" hole to 5,100'.
9. TOOH, PU directional BHA, TIH.
10. Drill to 5,135', kick off and drill well at a 114.94° azimuth with 12°/100' build rates to land in G1 Lime formation at a TVD of +/- 5,612', 5,896' MD.
11. Drill in zone to 5,916' MD (20' in zone). TOOH, LDDP.
12. PU and run 7", 26#, L-80, LTC casing to 5,916', cement casing.
13. PU 3 ½" DP, directional BHA, TIH.
14. Drill +/- 2,802' of lateral in G1 Lime.
  - a. Mud system to be NaCl weighted water based mud, weights are expected to be in the 8.8 – 9.6 ppg range.
15. Circulate and condition hole, TOOH, LD 2,800' DP.
  - a. PU 2,802' of 4-1/2" slotted liner, 300' of blank liner and liner dropping tool.
  - b. RIH w/ liner and dropping tool, drop liner at 5,616'.
  - c. LD 860' of DP, trip out of hole.
16. RU wireline, run GR to 5,100', run RBP, set @ 5,067'.
17. Run & set 7" whipstock on bridge plug @ 5,067', oriented at 265.56° azimuth, mill window in 7" casing 5,043' – 5,051'.
18. PU directional BHA, TIH, kick off and drill well at a 265.56° azimuth with 10.28°/100' build rates to land in G1 Lime formation at a TVD of +/- 5,612', 5,920' MD.
19. Drill +/- 3,440' of lateral in G1 Lime.
  - a. Mud system to be NaCl weighted water based mud, weights are expected to be in the 8.8 – 9.2 ppg range.

20. Circulate and condition hole, TOOH, LD 4,200' DP.
  - a. PU 3,440' of 4-1/2" slotted liner, 865' of blank liner and liner dropping tool.
  - b. RIH w/ liner and dropping tool, drop liner at 5,055', just outside window.
  - c. TOOH laying down DP.
21. RU wireline, RIH and set RBP @ +/- 4,500' to isolate laterals.
22. ND BOP's.
23. RDMOL.

DRILLING PROGRAM

ONSHORE OIL & GAS ORDER NO. 1  
 Approval of Operations on Onshore  
 Federal Oil and Gas Leases

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil & Gas No. 1, and the approved plan of operations. The operator is fully responsible for the actions of its subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

**1. Formation Tops**

The estimated top of important geologic markers are as follows:

SE Lateral:

<u>Formation</u>	<u>Depth, TVD</u>	<u>Depth, MD</u>
Green River	2,750'	2,750'
Kick Off Point	5,135'	5,135'
Green River (G1 Lime)	5,612'	5,896'
TD	5,548'	8,718'

W Lateral:

<u>Formation</u>	<u>Depth, TVD</u>	<u>Depth, MD</u>
Green River	2,750'	2,750'
Kick Off Point	5,055'	5,055'
Green River (G1 Lime)	5,612'	5,920'
TD	5,672'	9,360'

**2. Anticipated Depths of Oil, Gas, Water, and Other Mineral Bearing Zones**

The estimated depths at which the top and bottom of the anticipated water, oil, gas, or other mineral bearing formations are expected to be encountered as follows:

SE Lateral:

<u>Substance</u>	<u>Formation</u>	<u>Depth, TVD</u>	<u>Depth, MD</u>
Oil/Gas	Green River (G1 Lime)	5,612'	5,896' – 8,718'

W lateral:

<u>Substance</u>	<u>Formation</u>	<u>Depth, TVD</u>	<u>Depth, MD</u>
Oil/Gas	Green River (G1 Lime)	5,612'	5,920' – 9,360'

All fresh water and prospectively valuable minerals encountered during drilling will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

All water shows and water-bearing sands will be reported to the BLM in Vernal, Utah. Copies of State of Utah form OGC-8-X are acceptable. If flows are detected, samples will be submitted to the BLM along with any water analyses conducted. Fresh water will be obtained from Wonsits Valley water right A36125 (which was filed on May 7, 1964) or Red Wash water right # 49-2153 (which was filed on March 25, 1960). It was determined by the Fish and Wildlife Service that any water right number filed before 1989 is not depleting to the Upper Colorado River System, to supply fresh water for drilling purposes. All water resulting from drilling operations will be disposed of at Red Wash Central Battery Disposal site; SWSE, Section 27, T7S, R23E or Wonsits Valley Disposal Site; SWNW, Section 12, T8S, R21E.

**3. Operator's Specification for Pressure Control Equipment**

- A. 3,000 psi double gate, 3,000 psi annular (schematic attached)
- B. Function test daily.
- C. All casing strings shall be pressure tested (0.22 psi/ft or 1,500 psi, whichever is greater) prior to drilling the plug after cementing; test pressure shall not exceed the internal yield of the casing.
- D. Ram type preventers and associated equipment shall be tested to rated working pressure if isolated by a test plug or to 50% of the internal yield pressure of casing, whichever is less. BOP and related equipment shall meet the minimum requirements of Onshore Oil & Gas Order No. 2 for equipment and testing requirements, procedures, etc..., for a 3M system and individual components shall be operable as designed.

**4. Casing Program**

Hole Size	Casing Size	Top, MD	Bottom, MD	Mud Weight	Weight, lb/ft	Grade	Thread	Condition
17 1/2"	14"	sfc	40'	N/A	Steel	Cond.	None	Used
12 1/4"	9 5/8"	sfc	480'	N/A	36.0	J-55	STC	New
8 3/4"	7"	sfc	5,916'	9.2	26.0	HCP-110	LTC	New

Casing Strengths:				Collapse	Burst	Tensile (minimum)
9 5/8"	36.0 lb.	J-55	STC	2,020 psi	3,520 psi	394,000 lb.
7"	26.0 lb.	HCP-110	LTC	7,800 psi	9,950 psi	830,000 lb.

The lateral portion of these wellbores will be cased with slotted liners.

SE lateral:

Hole Size	Casing Size	Top,MD	Bottom, MD	Weight	Grade
6 1/8"	4 1/2"	5,700'	8,718'	11.6	P-110

W Lateral:

Hole Size	Casing Size	Top,MD	Bottom, MD	Weight	Grade
6 1/8"	4 1/2"	5,055'	9,360'	11.6	P-110

Please refer to the wellbore diagram and re-entry procedure for further details.

**MINIMUM DESIGN FACTORS:**

COLLAPSE: 1.125  
 BURST: 1.10  
 TENSION: 1.80

Area Fracture Gradient: 0.6 psi/foot  
 Maximum anticipated mud weight: 9.2 ppg  
 Maximum surface treating pressure: 4,000 psi

**5. Cementing Program**

**20" Conductor:**

Cement to surface with construction cement.

**9-5/8" Surface Casing: sfc – 480' (MD)**

**Lead/Tail Slurry:** 0' – 480'. 170 sks (310 cu ft) Rockies LT cement + 0.25 lb/sk Kwik Seal + 0.125 lb/sk Poly-E-Flake. Slurry wt: 13.5 ppg, Slurry yield: 1.81 ft<sup>3</sup>/sk, Slurry volume: 12-1/4" hole + 100% excess.

**7" Intermediate Casing: 3,000' - 5,916' (MD)**

**Lead/Tail Slurry:** 3,000' – 5,916'. 425 sks (530 cu ft) 50/50 Poz Premium + 0.6% Halad (R)-322 fluid loss + 2.0% Microbond M expander + 5% salt + 0.125 lb/sk Poly-E-Flake. Slurry wt: 14.35 ppg, Slurry yield: 1.24 ft<sup>3</sup>/sk, Slurry volume: 8-3/4" hole + 20% excess.

**SE Lateral: 4-1/2" Slotted & Blank Liner: 5,700' – 8,718' (MD)**

No cement, dropped in open hole.

**W Lateral: 4-1/2" Slotted & Blank Liner: 5,055' – 9,360' (MD)**

No cement, dropped in open hole.

6. Auxiliary Equipment

- A. Kelly Cock – Yes
- B. Float at the bit – No
- C. Monitoring equipment on the mud system – visually and/or PVT or Flow Show
- D. Fully opening safety valve on the rig floor – Yes
- E. Rotating Head – Yes
- F. Request for Variance

Drilling surface hole with air:

A variance from 43 CFR 3160 Onshore Oil and Gas Order #2, Section III Requirements, subsection E. Special Drilling Operations is requested for the specific operation of drilling and setting surface casing on the subject well with a truck mounted air rig. The variance from the following requirements

of Order #2 is requested because surface casing depth for this well is 450 feet and high pressures are not expected.

- 1. **Properly lubricated and maintained rotating head** – A diverter system in place of a rotating head. The diverter system forces the air and cutting returns to the reserve pit and is used to drill the surface casing.
  - 2. **Blooiie line discharge 100 feet from wellbore and securely anchored** – the blooiie line discharge for this operation will be located 50 to 70 feet from the wellhead. This reduced length is necessary due to the smaller location size to minimize surface disturbance.
  - 3. **Automatic igniter or continuous pilot light on blooiie line** – a diffuser will be used rather than an automatic pilot/igniter. Water is injected into the compressed air and eliminates the need for a pilot light and the need for dust suppression equipment.
  - 4. **Compressors located in the opposite direction from the blooiie line a minimum of 100 feet from the wellbore** – compressors located within 50 feet on the opposite side of the wellbore from the blooiie line and is equipped with a 1) emergency kill switch on the driller's console, 2) pressure relief valves on the compressors, 3) spark arrestors on the motors.
- G. All other operations and equipment for air/gas drilling shall meet specifications in Onshore Order #2, Section III Requirements, subsection E. Special Drilling Operations and Onshore Order #1.

Drilling of the lateral will be done with fresh water NaCl based mud systems consisting primarily of fresh water, bentonite, lignite, caustic, lime, soda ash, polymers, and NaCl. No chromates will be used. Maximum anticipated mud weight is 9.2 ppg.

No minimum quantity of weight material will be required to be kept on location.

PVT/Flow show will be used upon exit of surface casing to TD.

Gas detector will be used upon exit of surface casing to TD.

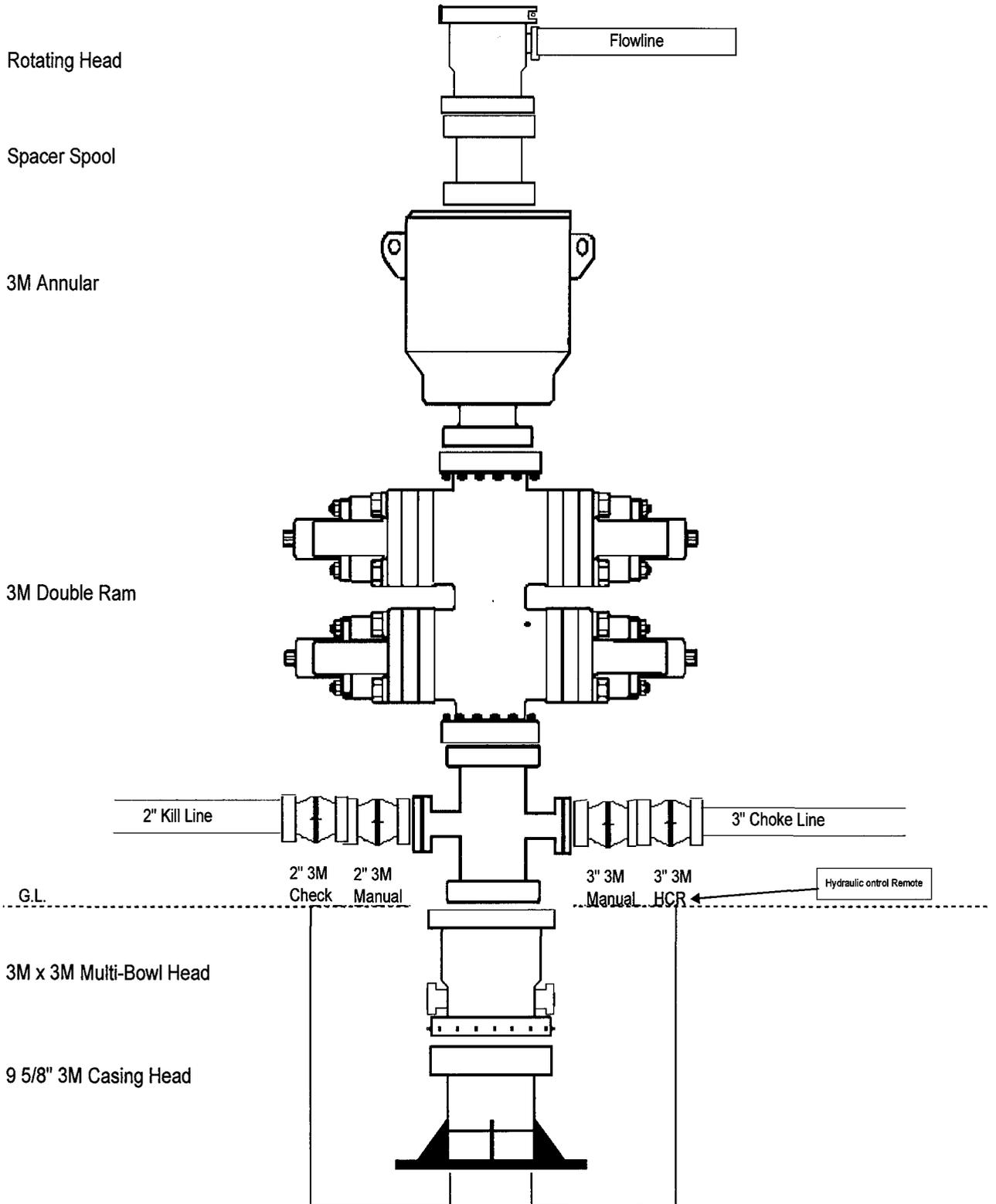
7. **Testing, Logging, and Coring Program**

- A. Cores – None Anticipated
- B. DST – None Anticipated
- C. Logging:
  - i. Mud logging from 5,000' to TD
  - ii. MWD-GR will be utilized during drilling operations to aid in landing the curve and maintaining the laterals within the desired zone.
- D. Formation and completion interval: G1 Lime interval, final determination of completion will be made by analysis of mud logging data. Stimulation: stimulation will be designed for the particular area of interest encountered.

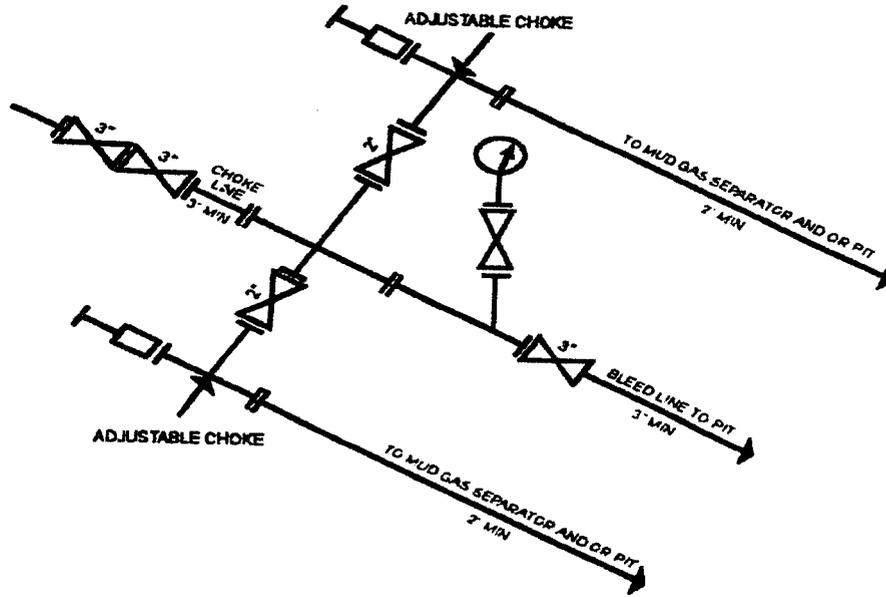
8. **Anticipated Abnormal Pressures and Temperatures, Other Potential Hazards**

No abnormal temperatures or pressures are anticipated. No H<sub>2</sub>S has been encountered or is known to exist from previous wells drilled to similar depths in the general area. Maximum anticipated bottom-hole pressure equals approximately 2,710 psi. Maximum anticipated bottom hole temperature is approximately 160°F.

ONSHORE OIL & GAS ORDER NO. 1  
 QUESTAR EXPLORATION AND PRODUCTION, CO.  
 SSU 2G-3-8-21  
 3M BOP STACK



3M CHOKE MANIFOLD



3M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY  
[54 FR 39528, Sept. 27, 1989]

## SSU 2G-3-8-21 Drilling Plan\_Lat 1 Proposal

<p>Report Date: June 12, 2008                  Client:                  Field: Uinta                  Structure / Slot: Sturip South Unit(Central) / SSU 2G-3-8-21                  Well: SSU 2G-3-8-21                  Borehole: Original Hole                  UWI/API#:                  Survey Name / Date: SSU 2G-3-8-21 Drilling Plan_Lat 1 / June 12, 2008                  Tort / AHD / DDI / ERD ratio: 91.300° / 3310.38 ft / 5.672 / 0.590                  Grid Coordinate System: NAD83 Utah State Planes, Central Zone, US Feet                  Location Lat/Long: N 40 9 27.529, W 109 32 19.388                  Location Grid N/E Y/X: N 7232157.488 ftUS, E 2188538.640 ftUS                  Grid Convergence Angle: +1.25635463°                  Grid Scale Factor: 0.99991464</p>	<p>Survey / DLS Computation Method: Minimum Curvature / Lubinski                  Vertical Section Azimuth: 114.940°                  Vertical Section Origin: N 0.000 ft, E 0.000 ft                  TVD Reference Datum: KB                  TVD Reference Elevation: 4752.0 ft relative to MSL                  Sea Bed / Ground Level Elevation: 4742.000 ft relative to MSL                  Magnetic Declination: 11.488°                  Total Field Strength: 52734.809 nT                  Magnetic Dip: 66.075°                  Declination Date: June 12, 2008                  Magnetic Declination Model: IGRF 2005                  North Reference: True North                  Total Corr Mag North -&gt; True North: -11.488°                  Local Coordinates Referenced To: Well Head</p>
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Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (deg)	DLS (deg/100 ft)	Tool Face (deg)	Northing (ftUS)	Easting (ftUS)
Tie-in	0.00	0.00	114.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	114.94M	7232157.49	2188538.64
Build 12.00/100ft	5134.70	0.00	114.94	5134.70	0.00	0.00	0.00	0.00	0.00	0.00	114.94M	7232157.49	2188538.64
7" Casing Point	5857.67	86.76	114.94	5611.40	450.45	-189.94	408.44	450.45	114.94	12.00	0.00G	7231976.57	2188951.11
Start DLS 0.00 TFO	5895.53	91.30	114.94	5612.04	488.30	-205.90	442.76	488.30	114.94	12.00	0.00G	7231961.36	2188985.77
0.00													
TD at 8718.34	8718.34	91.30	114.94	5548.00	3310.38	-1395.88	3001.69	3310.38	114.94	0.00	0.00G	7230827.87	2191569.94

**Survey Type:** Non-Def Proposal

**Survey Error Model:** SLB ISCWSA version 22 \*\*\* 3-D 95.00% Confidence 2.7955 sigma

**Surveying Prog:**

**MD From (ft)**

0.00  
10.00

**MD To (ft)**

10.00  
8718.34

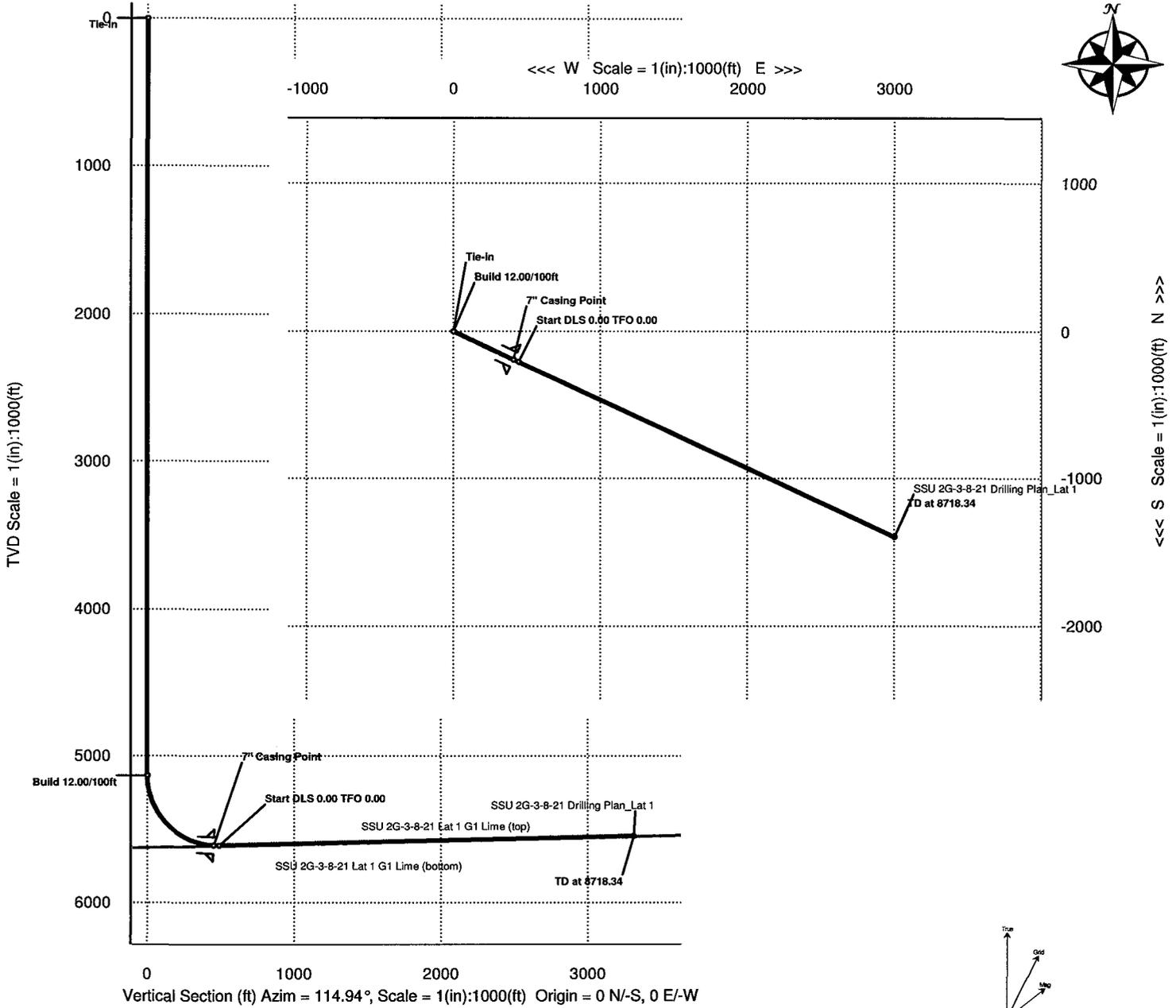
**EOU Freq Survey Tool Type**

1/100.00 SLB\_MWD-STD-Depth Only  
1/100.00 SLB\_MWD-STD

**Borehole -> Survey**

Original Hole -> SSU 2G-3-8-21 Drilling Plan\_Lat 1  
Original Hole -> SSU 2G-3-8-21 Drilling Plan\_Lat 1

WELL <b>SSU 2G-3-8-21</b>	FIELD <b>Uinta</b>	STRUCTURE <b>Sturip South Unit(Central)</b>
Magnetic Parameters Model: IGRF 2005 Dip: 66.075° Mag Dec: +11.488° Date: June 12, 2008 FS: 52734.8 nT	Surface Location Lat: N40 9 27.529 Lon: W109 32 19.368	NADES Utah State Planes, Central Zone, US Feet Northing: 7235167.49 RLJS Easting: 2185335.64 RLJS Grid Conv: +1.25635463° Scale Fact: 0.9999146395
Miscellaneous Stat: SSU 2G-3-8-21 Plan: SSU 2G-3-8-21 Drilling Plan_Lat 1		TVD Ref: KB (4752.00 ft above MSL) Date: June 12, 2008



Vertical Section (ft) Azim = 114.94°, Scale = 1(in):1000(ft) Origin = 0 N-S, 0 E-W

Critical Points								
Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
Tie-in	0.00	0.00	114.94	0.00	0.00	0.00	0.00	
Build 12.00/100ft	5134.70	0.00	114.94	5134.70	0.00	0.00	0.00	0.00
7" Casing Point	5857.67	86.76	114.94	5611.40	450.45	-189.94	408.44	12.00
Start DLS 0.00 TFO 0.00	5895.53	91.30	114.94	5612.04	488.30	-205.90	442.76	12.00
TD at 8718.34	8718.34	91.30	114.94	5548.00	3310.38	-1395.88	3001.69	0.00

True North  
Tot Corr (M->T +11.4880°)  
Mag Dec (+11.488°)  
Grid Conv (+1.25635463°)

Quality Control  
Date Drawn: Thu 02:15 PM  
June 12, 2008  
Drawn by: Current User  
Checked by:

**Legend**  
 SSU 2G-3-8-21 Drilling Plan\_Lat 1  
 SSU 2G-3-8-21 Lat 1 G1 Lime (top)  
 SSU 2G-3-8-21 Lat 1 G1 Lime (bottom)



## SSU 2G-3-8-21 Drilling Plan\_Lat 2 Proposal

<p>Report Date: June 12, 2008          Client: Uinta          Field: Uinta          Structure / Slot: Sturip South Unit(Central) / SSU 2G-3-8-21          Well: SSU 2G-3-8-21          Borehole: Original Hole          UWI/API#:           Survey Name / Date: SSU 2G-3-8-21 Drilling Plan_Lat 2 / June 12, 2008          Tort / AHD / DDI / ERD ratio: 89.000° / 3986.90 ft / 5.768 / 0.703          Grid Coordinate System: NAD83 Utah State Planes, Central Zone, US Feet          Location Lat/Long: N 40 9 27.529, W 109 32 19.388          Location Grid N/E Y/X: N 7232157.488 ftUS, E 2188538.640 ftUS          Grid Convergence Angle: +1.25635463°          Grid Scale Factor: 0.99991464</p>	<p>Survey / DLS Computation Method: Minimum Curvature / Lubinski          Vertical Section Azimuth: 265.560°          Vertical Section Origin: N 0.000 ft, E 0.000 ft          TVD Reference Datum: KB          TVD Reference Elevation: 4752.0 ft relative to MSL          Sea Bed / Ground Level Elevation: 4742.000 ft relative to MSL          Magnetic Declination: 11.488°          Total Field Strength: 52734.842 nT          Magnetic Dip: 66.075°          Declination Date: June 12, 2008          Magnetic Declination Model: IGRF 2005          North Reference: True North          Total Corr Mag North -&gt; True North: +11.488°          Local Coordinates Referenced To: Well Head</p>
--	---

Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (deg)	DLS (deg/100 ft)	Tool Face (deg)	Northing (ftUS)	Easting (ftUS)
Tie-In	0.00	0.00	265.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-94.44M	7232157.49	2188538.64
Build 10.28/100ft	5054.70	0.00	265.56	5054.70	0.00	0.00	0.00	0.00	0.00	0.00	-94.44M	7232157.49	2188538.64
Start DLS 0.00 TFO 0.00	5920.46	89.00	265.56	5611.97	547.62	-42.39	-545.98	547.62	265.56	10.28	0.00G	7232103.14	2187993.77
TD at 9360.27	9360.26	89.00	265.56	5672.00	3986.90	-308.65	-3974.93	3986.90	265.56	0.00	0.00G	7231761.80	2184571.78

**Survey Type:** Non-Def Proposal

**Survey Error Model:** SLB ISCWSA version 22 \*\*\* 3-D 95.00% Confidence 2.7955 sigma

**Surveying Prog:**

MD From (ft)

0.00  
10.00

MD To (ft)

10.00  
9360.26

EQU Freq

1/100.00  
1/100.00

Survey Tool Type

SLB\_MWD-STD-Depth Only  
SLB\_MWD-STD

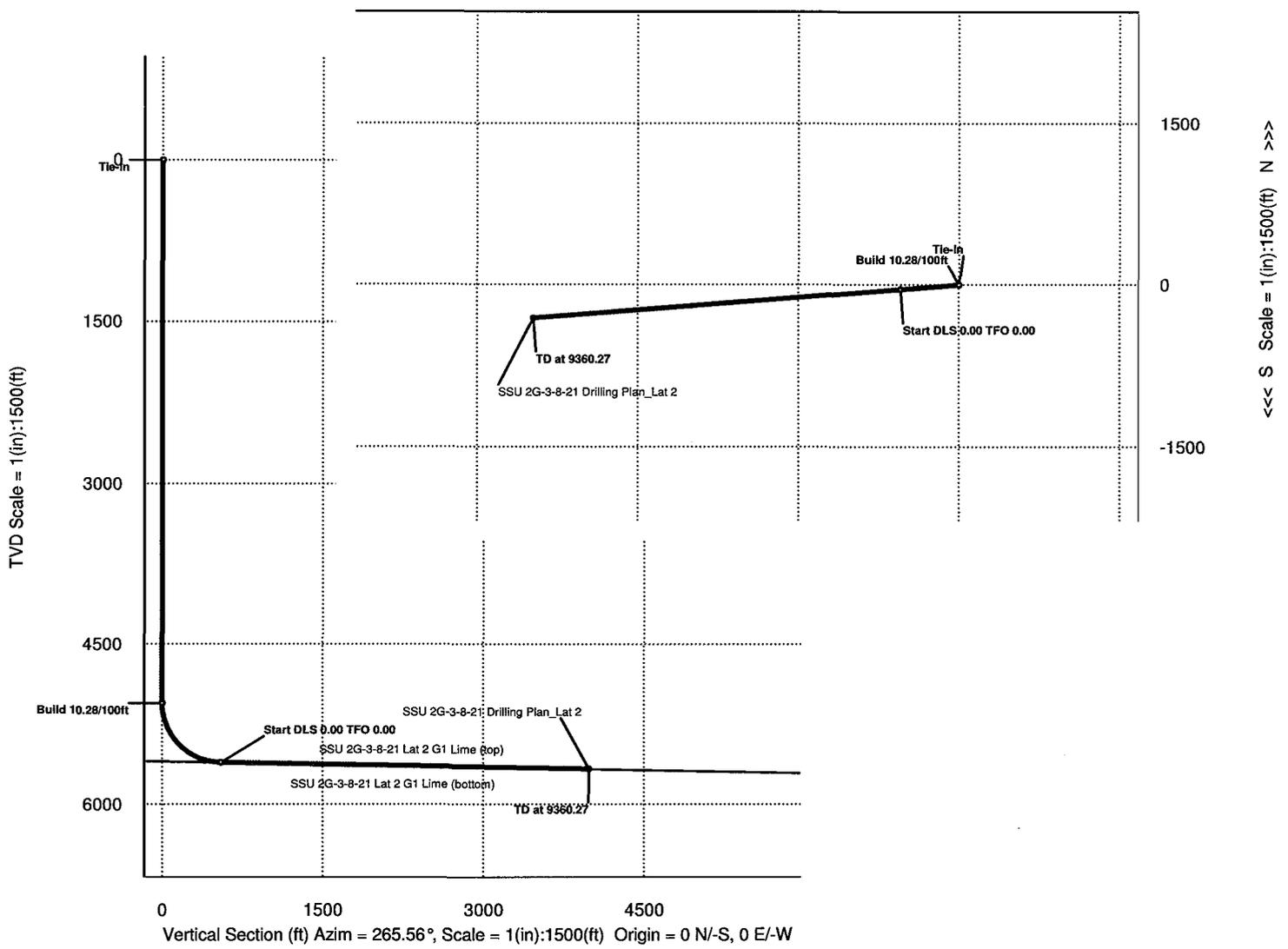
Borehole -> Survey

Original Hole -> SSU 2G-3-8-21 Drilling Plan\_Lat 2  
Original Hole -> SSU 2G-3-8-21 Drilling Plan\_Lat 2

WELL <b>SSU 2G-3-8-21</b>	FIELD <b>Uinta</b>	STRUCTURE <b>Sturip South Unit(Central)</b>
Magnetic Parameters Model: IGRF 2005 Dip: 66.075° Mag Dec: +11.488° Date: June 12, 2008 PS: 52734.8 nT	Surface Location Lat: N40 9 27.529 Lon: W109 32 19.388 NAD83 Utah State Planes, Central Zone, US Feet Northing: 7232157.49 ftUS Easting: 2188538.64 ftUS Grid Conv: +1.25635463° Scale Fact: 0.9999146395	Miscellaneous Slot: SSU 2G-3-8-21 Plan: SSU 2G-3-8-21 Drilling Plan_03a9 Date: June 12, 2008 TVD Ref: KB (4752.00 ft above MSL)



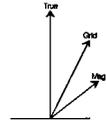
<<< W Scale = 1 (in):1500(ft) E >>>



Critical Points								
Critical Point	MD	INCL	AZIM	TVD	VBEC	N(+) / S(-)	E(+) / W(-)	DLS
Tie-in	0.00	0.00	265.56	0.00	0.00	0.00	0.00	
Build 10.28/100ft	5054.70	0.00	265.56	5054.70	0.00	0.00	0.00	0.00
Start DLS 0.00	5920.46	89.00	265.56	5611.97	547.62	-42.39	-545.98	10.28
TFO 0.00	5920.46	89.00	265.56	5611.97	547.62	-42.39	-545.98	10.28
TD at 9360.27	9360.26	89.00	265.56	5672.00	3986.90	-308.65	-3974.93	0.00

### Legend

- SSU 2G-3-8-21 Drilling Plan\_Lat 2
- SSU 2G-3-8-21 Lat 2 G1 Lime (top)
- SSU 2G-3-8-21 Lat 2 G1 Lime (bottom)



True North  
Tot Corr (M->T +11.4880°)  
Mag Dec (+11.488°)  
Grid Conv (+1.25635463°)

Quality Control  
Date Drawn: Thu 02:18 PM  
June 12, 2008  
Drawn by: Current User  
Checked by:

**SSU 2G-3-8-21**  
Proposed Dual Lateral

9-5/8", 36#, J-55  
csg set @ ~ 450'

12-1/4" hole

7", 26#, HCP-110 csg

8-3/4" hole

Whipstock set 50' above start of curve. Window cut in 7" csg and 2nd lateral drilled. Whipstock pulled after drilling & completions are done in lateral 2.

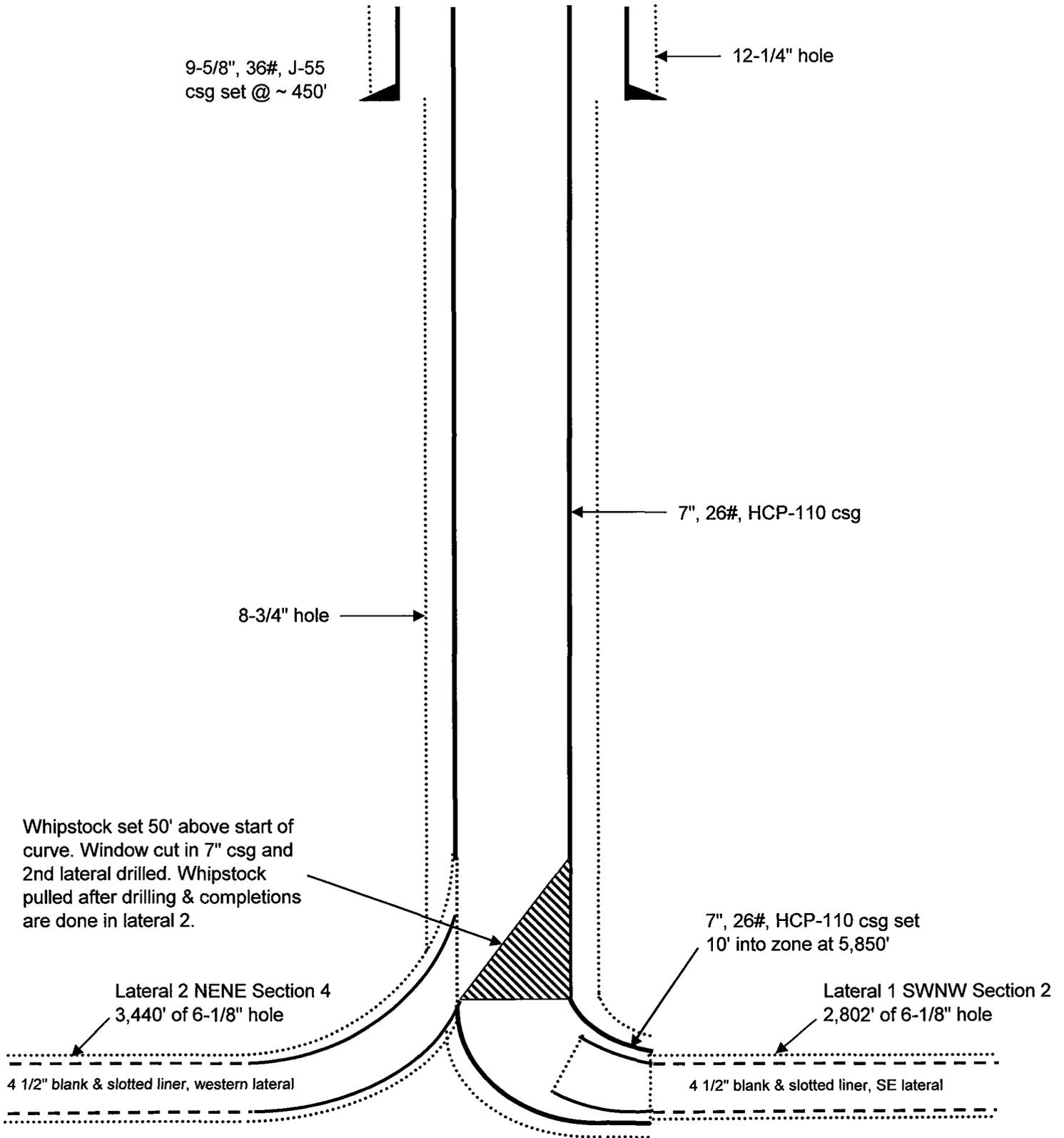
Lateral 2 NENE Section 4  
3,440' of 6-1/8" hole

7", 26#, HCP-110 csg set  
10' into zone at 5,850'

Lateral 1 SWNW Section 2  
2,802' of 6-1/8" hole

4 1/2" blank & slotted liner, western lateral

4 1/2" blank & slotted liner, SE lateral



QUESTAR EXPLORATION & PRODUCTION, CO.  
SSU 2G-3-8-21  
842' FNL 1958' FEL  
LOT 2, Section 3, T8S, R21E  
UINTAH COUNTY, UTAH  
LEASE # UTU-80636

ONSHORE ORDER NO. 1

**MULTI – POINT SURFACE USE & OPERATIONS PLAN**

An onsite inspection was conducted for the SSU 2G-3-8-21 on August 7, 2007. Weather conditions were hot & sunny at the time of the onsite. In attendance at the inspection were the following individuals:

Paul Buhler	Bureau of Land Management
Brandon McDonald	Bureau of Land Management
Jan Nelson	Questar Exploration & Production, Co.

**1. Existing Roads:**

The proposed well site is approximately 41 miles South of Vernal, Utah.

Refer to Topo Maps A and B for location of access roads within a 2 – mile radius.

There will be improvements made to existing road and upgrade low water crossing where it has washed out.

**2. Planned Access Roads:**

Please see Questar Exploration & Production Company Standard Practices for Green River Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench and undesignated fields in Township 08 South, Ranges 22 East.

Refer to Topo Map B for the location of the proposed access road.

**3. Location of Existing Wells Within a 1 – Mile Radius:**

Please refer to Topo Map C.

**4. Location of Existing & Proposed Facilities:**

Please see Questar Exploration & Production Company Standard Practices for Green River Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench and undesignated fields in Township 08 South, Ranges 22 East.

Refer to Topo Map D for the location of the proposed pipeline.

**Surface pipelines will be constructed in accordance with the following guidance.**

***Product will be tanked and hauled to delivery site.***

**GAS SALES LINE:** The pipeline will be unpainted steel, 4" inside diameter, welded, schedule # 20 or greater. The pipeline will be welded together on location and pulled into place. The pipeline will lay within 25' feet of access existing roads, pipelines, or existing route authorizations as much as possible. At the road crossing it will have a steel casing installed over the pipeline and ramped so the pipeline will not be buried. The pipeline will tie into WV 2W-3-8-21.

**FUEL GAS LINE:** The pipeline will be a 2" inside diameter, poly pipe with a rating of 160 psi or greater. The line will be laid adjacent to the gas sales line following the line to location.

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

Please see Questar Exploration & Production Company Standard Practices for Green River Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench and undesignated fields in Townships 07 and 08 South, Ranges 21 to 24 East.

Water for drilling purposes would be obtained from Wonsits Valley Water Right # A 36125 (which was filed on May 7, 1964) or Red Wash Water Right # 49-2153 (which was filed on March 25, 1960). It was determined by the Fish and Wildlife Service that any water right number filed before 1989 is not depleting to the Upper Colorado River System.

**6. Source of Construction Materials:**

Please see Questar Exploration & Production Company Standard Practices for Green River Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench and undesignated fields in Townships 07 and 08 South, Ranges 21 to 24 East.

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

Please see Questar Exploration & Production Company Standard Practices for Green River Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench and undesignated fields in Townships 07 and 08 South, Ranges 21 to 24 East.

**8. Ancillary Facilities:**

Please see Questar Exploration & Production Company Standard Practices for Green River Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench and undesignated fields in Townships 07 and 08 South, Ranges 21 to 24 East.

*Facilities will be painted Covert Green*

**9. Well Site Layout: (See Location Layout Diagram)**

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s).

Please see the attached diagram to describe rig orientation, parking areas, and access roads.

A felt pit liner will be required if bedrock is encountered.

**10. Plans for Reclamation of the Surface:**

Please see Questar Exploration & Production Company Standard Practices for Green River Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench and undesignated fields in Townships 07 and 08 South, Ranges 21 to 24 East.

**Interim Reclamation**

Please see attached Interim Reclamation plan.

Once the well is put onto production, QEP will reclaim as much of the well pad as possible that will allow for operations to continue in a safe and reasonable manner. Reseeding will be done in the spring or fall of every year to allow winter precipitation to aid in the success of reclamation.

**Seed Mix:**

*Interim Reclamation:*

9 lbs Hycrest Crested Wheatgrass

3 lbs Forage Kochia

*Final Reclamation:*

Seed Mix # 5      4 lbs Gardner Saltbush,   4 lbs Shadscale,   4 lbs Hycrest Crested Wheat

**11. Surface Ownership:**

Bureau of Land Management

170 South 500 East

Vernal, Utah 84078

(435) 781-4400

**12. Other Information**

A Class III archaeological survey was conducted by Montgomery Archaeology Consultants. A copy of this report was submitted directly to the appropriate agencies by Montgomery Archaeology Consultants. Cultural resource clearance was recommended for this location.

A Class III paleontological survey was conducted by Intermountain Paleo Consulting. A copy of this report was submitted directly to the appropriate agencies by Stephen D. Sandau. The inspection resulted in numerous vertebrate fossils in the mudstone hills. Therefore, a comprehensive monitor will be present during construction.

There is a Ferruginous Hawk Stipulation from March 1st to August 31st. No construction or drilling will commence during this period unless otherwise determined by a wildlife biologist that the site is inactive.

After pit is closed construct a 2 foot berm and erosion control structure on south side of location.

**Lessee's or Operator's Representative:**

Jan Nelson  
Red Wash Rep.  
Questar Exploration & Production, Co.  
11002 East 17500 South  
Vernal, Utah 84078  
(435) 781-4331

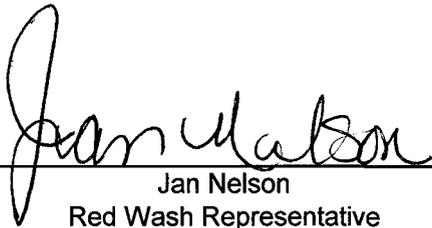
**Certification:**

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil & Gas Orders, the approved plan of operations, and any applicable Notice to Lessees.

Questar Explor. & Prod. Co. will be fully responsible for the actions of their subcontractors.

A complete copy of the approved Application for Permit to Drill will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; 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 the operations proposed herein will be performed by Questar Explor. & Prod. Co. it's contractors and subcontractors in conformity with this plan and the terms and 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.

  
\_\_\_\_\_  
Jan Nelson  
Red Wash Representative

6/17/2008

\_\_\_\_\_  
Date

# QUESTAR EXPLR. & PROD.

SSU #2G-3-8-21

LOCATED IN UINTAH COUNTY, UTAH  
SECTION 3, T8S, R21E, S.L.B.&M.

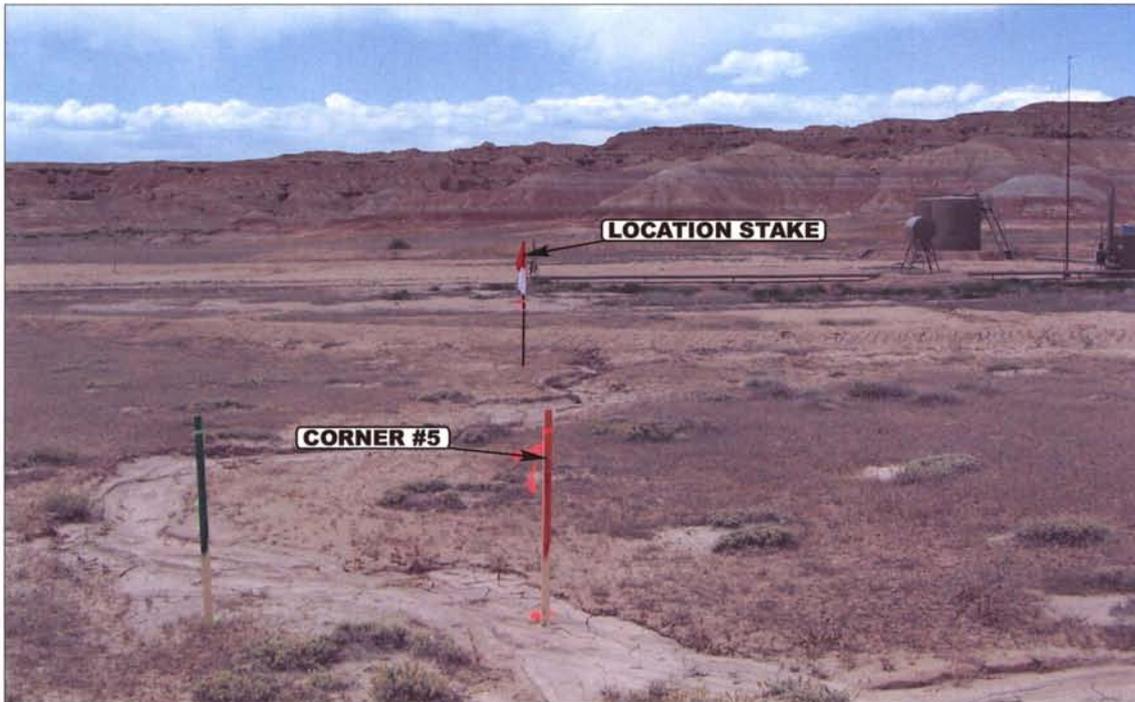


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHWESTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: SOUTHEASTERLY



- Since 1964 -

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

LOCATION PHOTOS

06 26 07  
MONTH DAY YEAR

PHOTO

TAKEN BY: D.A.

DRAWN BY: C.P.

REVISED: 00-00-00

QUESTAR EXPLR. & PROD.

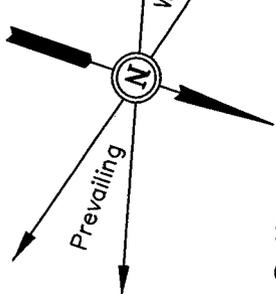
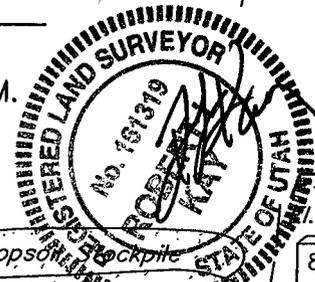
FIGURE #1

LOCATION LAYOUT FOR

SSU #2G-3-8-21

SECTION 3, T8S, R21E, S.L.B.&M.

842' FNL 1958' FEL



SCALE: 1" = 50'  
DATE: 07-02-07  
Drawn By: L.K.

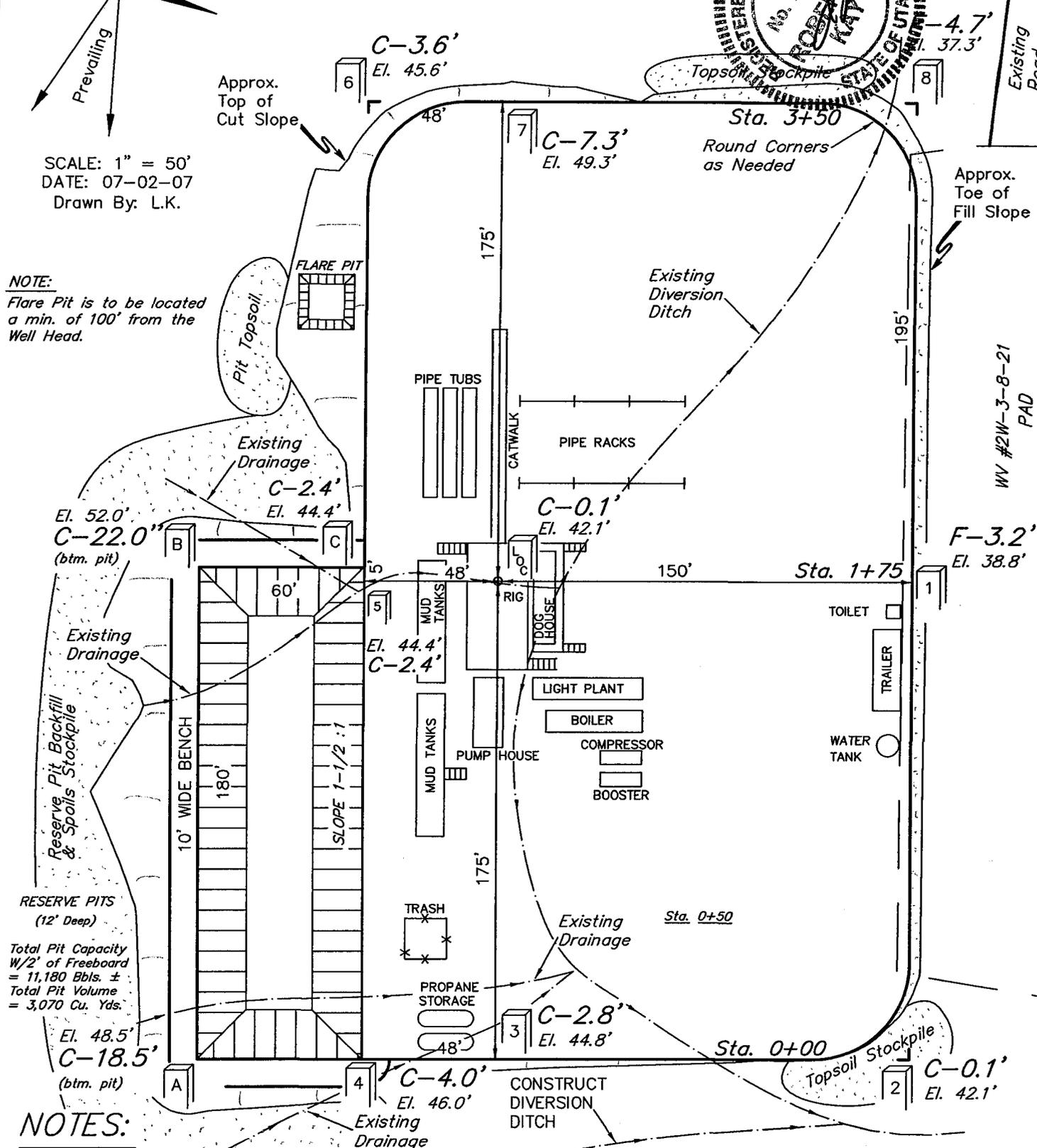
**NOTE:**  
Flare Pit is to be located a min. of 100' from the Well Head.

**RESERVE PITS**  
(12' Deep)  
Total Pit Capacity  
W/2' of Freeboard  
= 11,180 Bbls. ±  
Total Pit Volume  
= 3,070 Cu. Yds.

**NOTES:**

Elev. Ungraded Ground At Loc. Stake = 4742.1'  
FINISHED GRADE ELEV. AT LOC. STAKE = 4742.0'

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



QUESTAR EXPLR. & PROD.

FIGURE #2

TYPICAL CROSS SECTIONS FOR

SSU #2G-3-8-21

SECTION 3, T8S, R21E, S.L.B.&M.

842' FNL 1958' FEL

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

DATE: 07-02-07  
Drawn By: L.K.



Preconstruction  
Grade

48' 150'

CUT

FILL

STA. 3+50

10' 60' 48' 150'

BENCH

Location Stake

CUT

FILL

STA. 1+75

10' 60' 48' 150'

BENCH

CUT

FILL

Slope = 1 1/2:1  
(Typ.)

STA. 0+50

118'

150'

Finished Grade

CUT

STA. 0+00

\* NOTE:  
FILL QUANTITY INCLUDES  
5% FOR COMPACTION

APPROXIMATE YARDAGES

CUT	
(6") Topsoil Stripping	= 1,790 Cu. Yds.
Remaining Location	= 12,110 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 13,900 CU.YDS.</b>
<b>FILL</b>	<b>= 4,060 CU.YDS.</b>

APPROXIMATE ACREAGES

WELL SITE DISTURBANCE	= ± 2.500 ACRES
PIPELINE DISTURBANCE	= ± 0.044 ACRES
<b>TOTAL</b>	<b>= ± 2.544 ACRES</b>

Excess Material	= 9,840 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 3,330 Cu. Yds.
<b>EXCESS UNBALANCE</b> (After Interim Rehabilitation)	<b>= 6,510 Cu. Yds.</b>

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85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

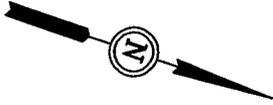
**QUESTAR EXPLR. & PROD.**

**INTERIM RECLAMATION PLAN FOR**

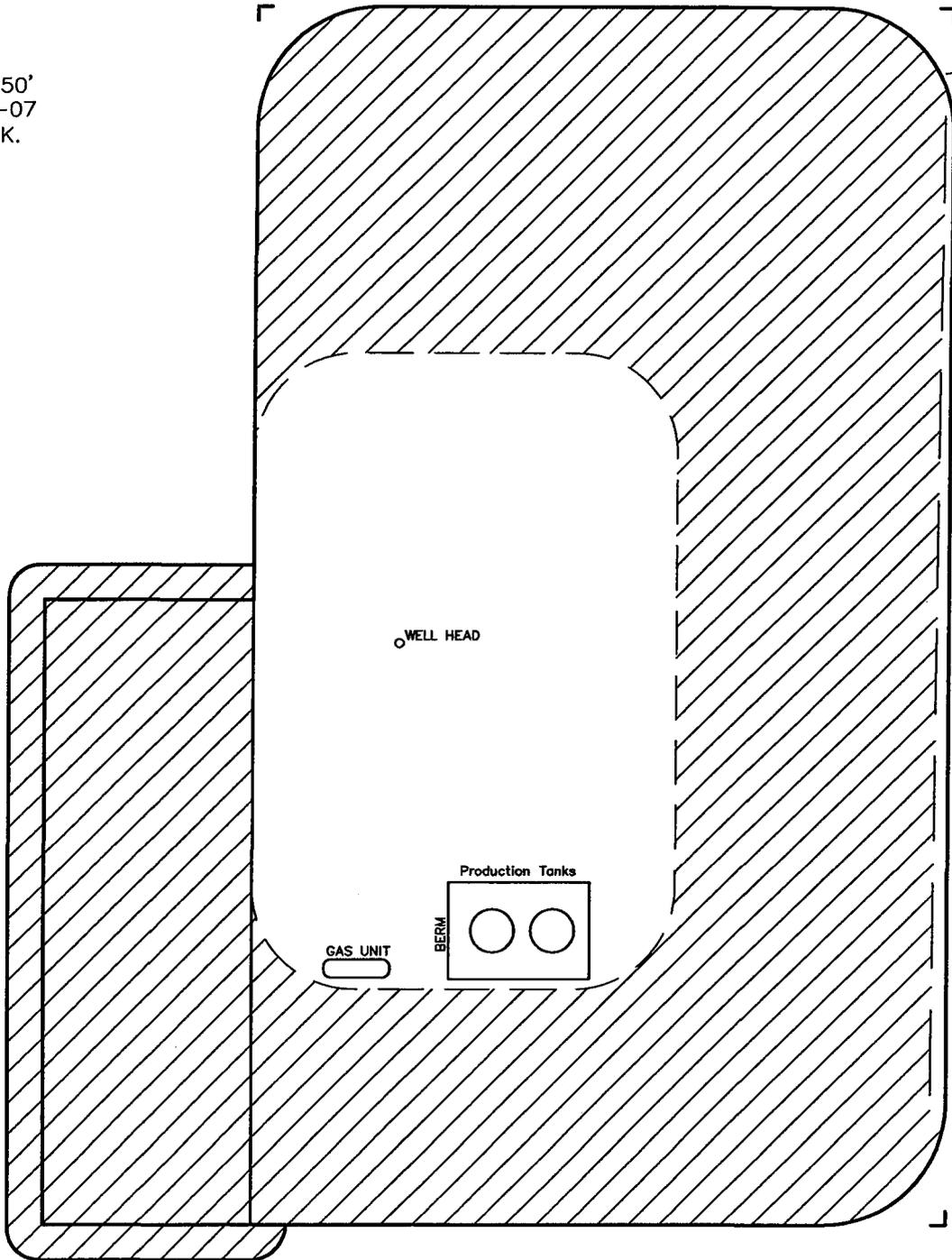
SSU #2G-3-8-21

SECTION 3, T8S, R21E, S.L.B.&M.

842' FNL 1958' FEL

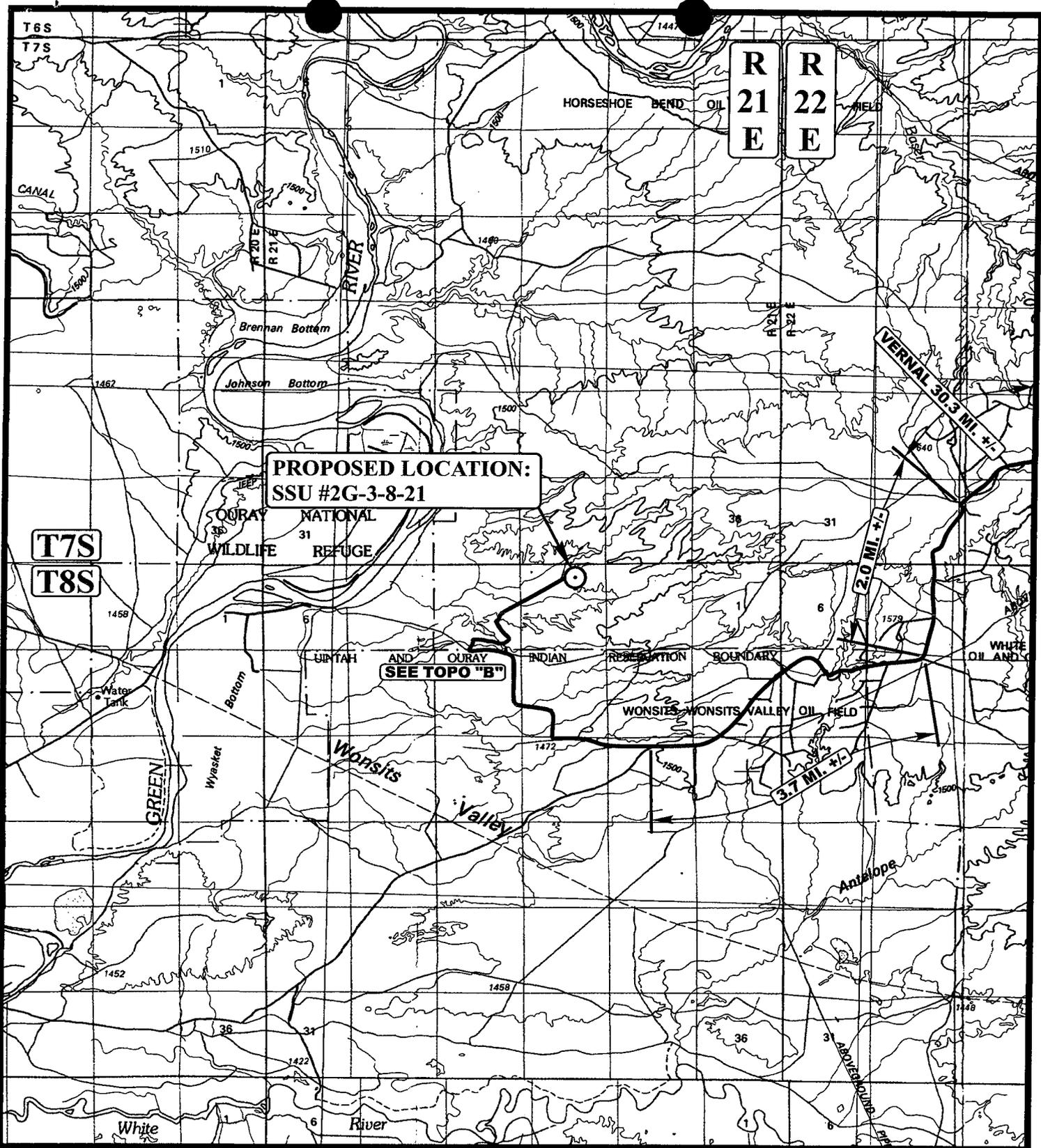


SCALE: 1" = 50'  
DATE: 07-02-07  
Drawn By: L.K.



WV #2W-3-8-21  
PAD

 INTERIM RECLAMATION



**PROPOSED LOCATION:  
SSU #2G-3-8-21**

**SEE TOPO "B"**

**LEGEND:**

○ PROPOSED LOCATION



**QUESTAR EXPLR. & PROD.**

SSU #2G-3-8-21  
SECTION 3, T8S, R21E, S.L.B.&M.  
842' FNL 1958' FEL

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

**TOPOGRAPHIC** 06 26 07  
**MAP** MONTH DAY YEAR  
SCALE: 1:100,000 DRAWN BY: C.P. REVISED: 00-00-00 **TOPO**

R  
21  
E

T7S  
T8S

PROPOSED LOCATION:  
SSU #2G-3-8-21

#2W

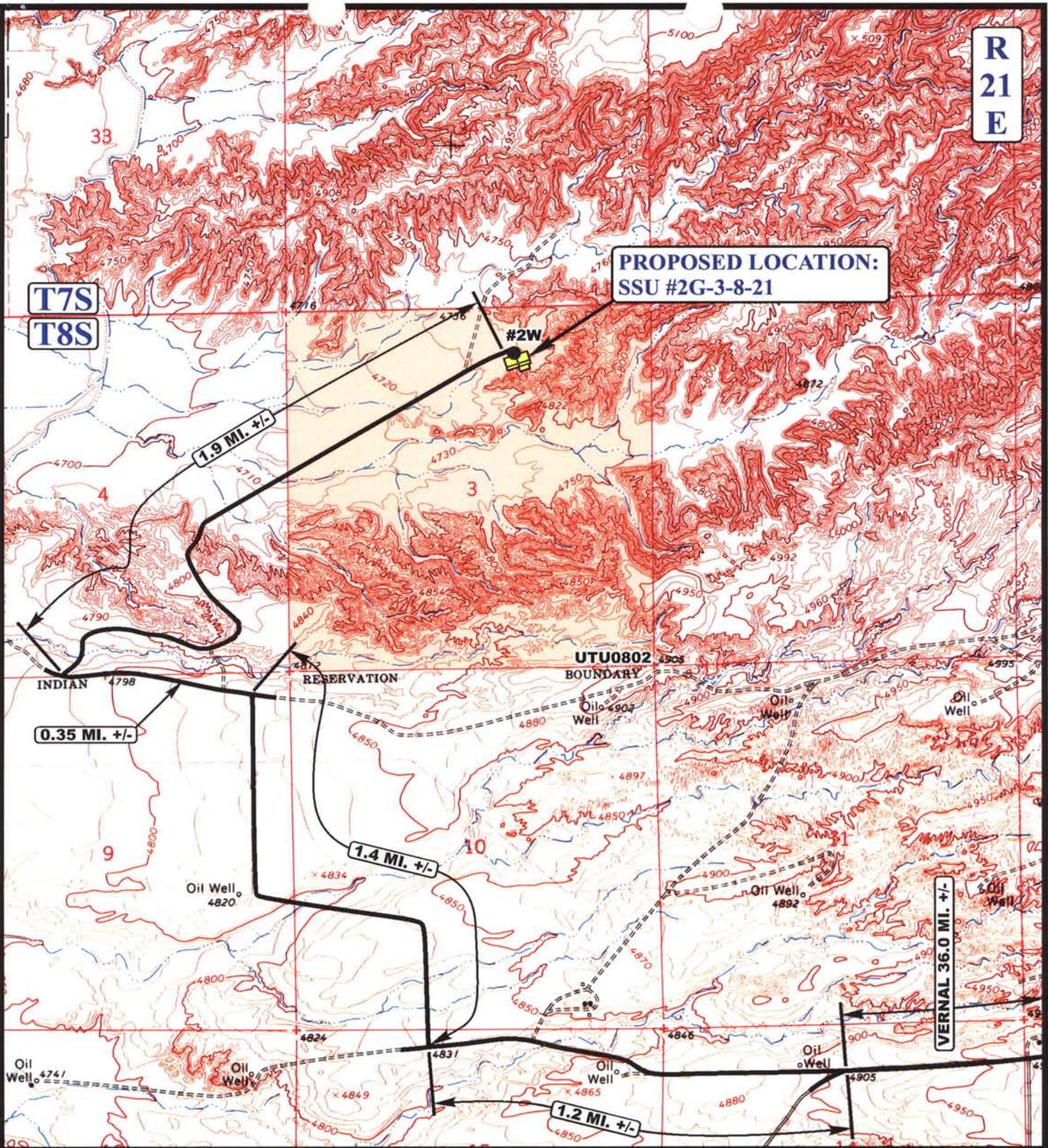
1.9 MI. +/-

0.35 MI. +/-

1.4 MI. +/-

1.2 MI. +/-

VERNAL 36.0 MI. +/-



**LEGEND:**

————— EXISTING ROAD

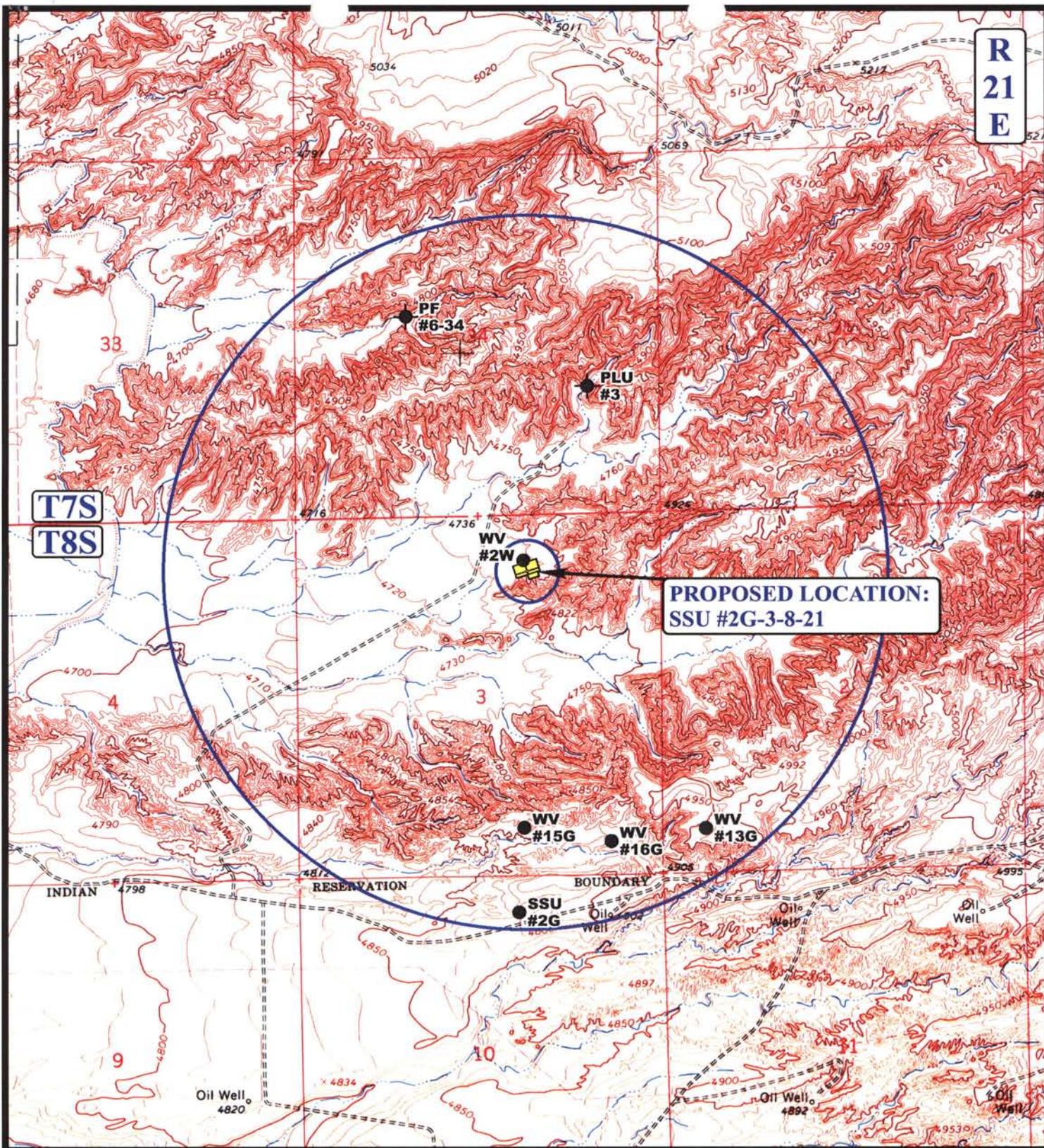
**QUESTAR EXPLR. & PROD.**

SSU #2G-3-8-21  
SECTION 3, T8S, R21E, S.L.B.&M.  
842' FNL 1958' FEL



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

<b>TOPOGRAPHIC</b>	<b>06</b>	<b>26</b>	<b>07</b>	<b>B</b> TOPO
<b>MAP</b>	MONTH	DAY	YEAR	
SCALE: 1" = 2000'	DRAWN BY: C.P.		REVISED: 00-00-00	



R  
21  
E

T7S  
T8S

PROPOSED LOCATION:  
SSU #2G-3-8-21

**LEGEND:**

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

**QUESTAR EXPLR. & PROD.**

SSU #2G-3-8-21  
SECTION 3, T8S, R21E, S.L.B.&M.  
842' FNL 1958' FEL

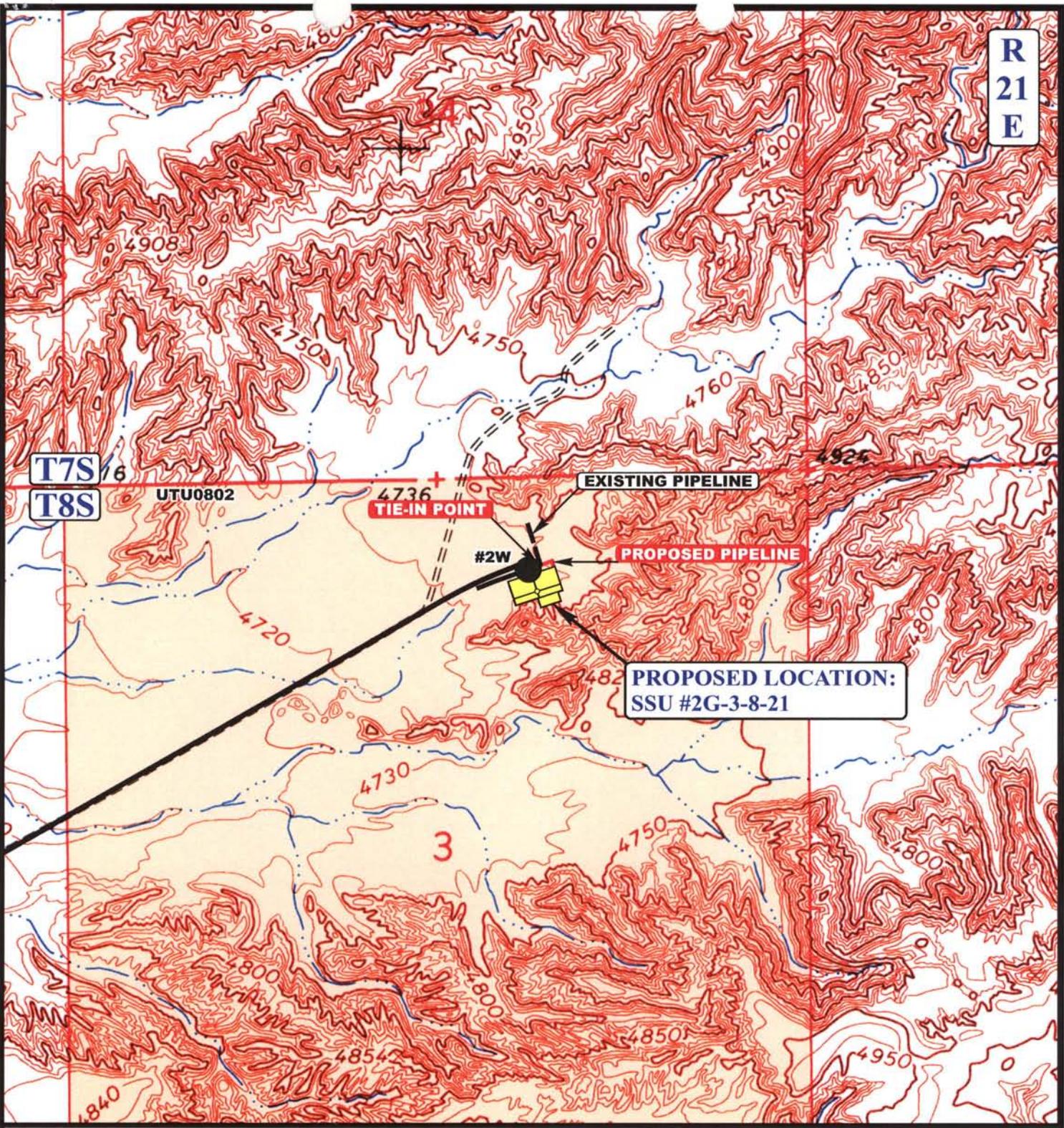


**Uintah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC MAP** 06 26 07  
MONTH DAY YEAR  
SCALE: 1" = 2000' DRAWN BY: C.P. REVISED: 00-00-00



R  
21  
E



APPROXIMATE TOTAL PIPELINE DISTANCE = 64' +/-

**LEGEND:**

- PROPOSED ACCESS ROAD
- EXISTING PIPELINE
- PROPOSED PIPELINE

**QUESTAR EXPLR. & PROD.**

SSU #2G-3-8-21  
 SECTION 3, T8S, R21E, S.L.B.&M.  
 842' FNL 1958' FEL



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

**TOPOGRAPHIC MAP** 06 26 07  
 MONTH DAY YEAR  
 SCALE: 1" = 1000' DRAWN BY: C.P. REVISED: 00-00-00



**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 06/19/2008

API NO. ASSIGNED: 43-047-40159

WELL NAME: SSU 2G-3-8-21  
 OPERATOR: QUESTAR EXPLORATION & ( N5085 )  
 CONTACT: JAN NELSON

PHONE NUMBER: 435-781-4031

PROPOSED LOCATION:

LAT#1  
LAT#2

NWNE 03 080S 210E  
 SURFACE: 0842 FNL 1958 FEL  
 BOTTOM: 2300 FNL 1000 FWL *SWNW Sec 2*  
 COUNTY: *1100 FNL 600 FEL NENE Sec 4* UINTAH  
 LATITUDE: 40.15775 LONGITUDE: -109.5382  
 UTM SURF EASTINGS: 624501 NORTHINGS: 4446080  
 FIELD NAME: WONSITS VALLEY ( 710 )

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

LEASE TYPE: 1 - Federal  
 LEASE NUMBER: UTU-80636  
 SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: GRRV  
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

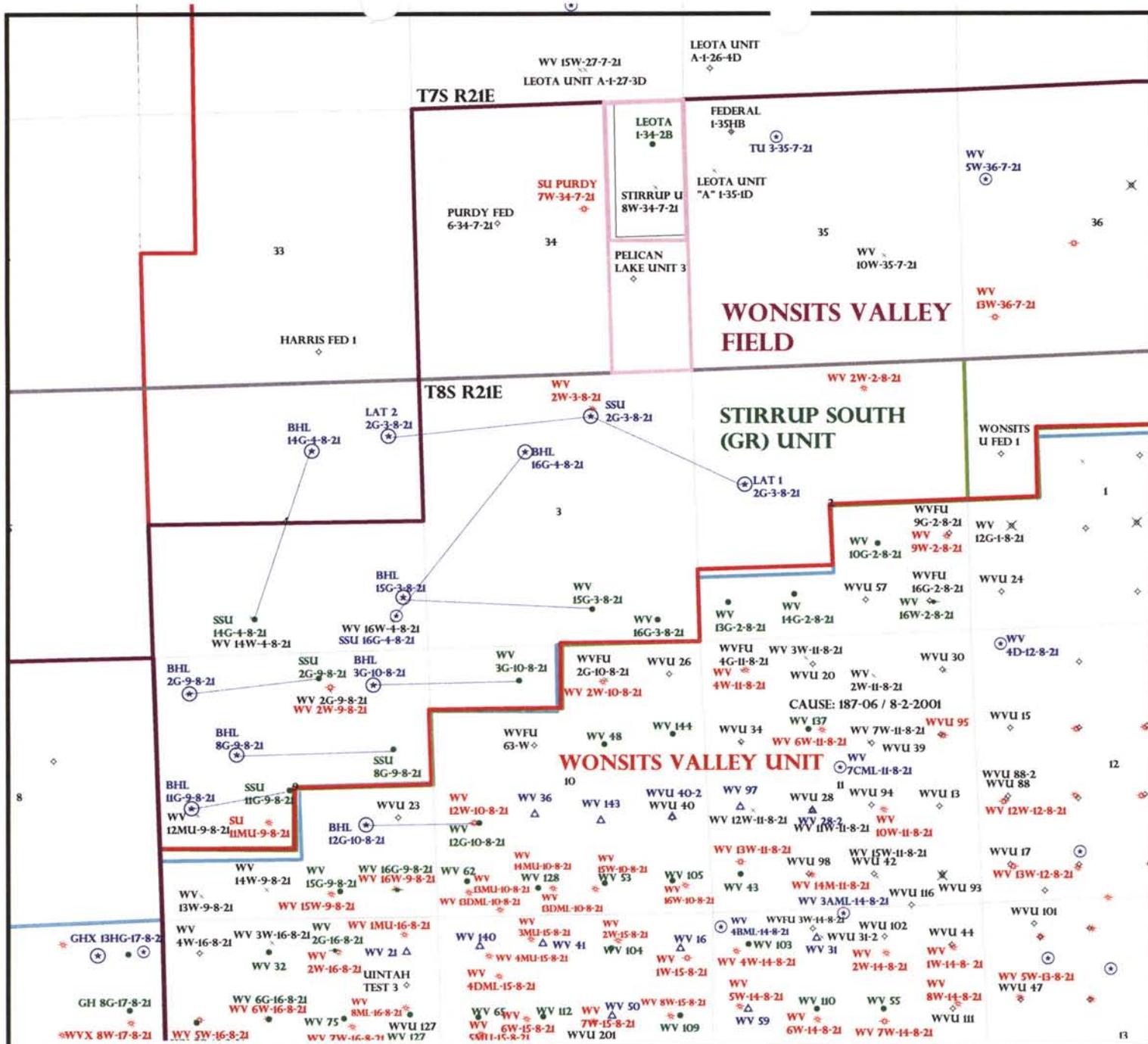
- Plat
- Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. ESB000024 )
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit  
(No. 49-2153 )
- RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )
- Fee Surf Agreement (Y/N)
- Intent to Commingle (Y/N)

LOCATION AND SITING:

- R649-2-3. *\* Horizontal*
- Unit: STIRRUP SO (GRRV)
- 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: QUESTAR EXPL & PROD (N5085)

SEC: 3 T.8S R. 21E

FIELD: WONSITS VALLEY (710)

COUNTY: UINTAH

SPACING: R649-3-2 / HORIZONTAL DRILLING

- Field Status**
- ABANDONED
  - ACTIVE
  - COMBINED
  - INACTIVE
  - PROPOSED
  - STORAGE
  - TERMINATED

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

- Wells Status**
- 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
  - DRILLING



PREPARED BY: DIANA MASON  
DATE: 19-JUNE-2008

# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

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

IN REPLY REFER TO:  
3160  
(UT-922)

June 23, 2008

Memorandum

To: Assistant District Manager Minerals, Vernal District  
From: Michael Coulthard, Petroleum Engineer  
Subject: 2008 Plan of Development Stirrup South Unit,  
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following well is planned for calendar year 2008 within the Stirrup South Unit, Uintah County, Utah

API#	WELL NAME	LOCATION
(Proposed PZ Green River)		
43-047-40159	SSU 2G-3-8-21 Sec 3	T08S R21E 0842 FNL 1958 FEL
	Lateral #1 Sec 2	T08S R21E 2300 FNL 1000 FWL
	Lateral #2 Sec 4	T08S R21E 1100 FNL 0600 FEL

This office has no objection to permitting the well at this time.

/s/ Michael L. Coulthard

bcc: File - Stirrup South Unit  
Division of Oil Gas and Mining  
Central Files  
Agr. Sec. Chron  
Fluid Chron

MCoulthard:mc:6-23-08



JON M. HUNTSMAN, JR.  
Governor

GARY R. HERBERT  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

June 23, 2008

Questar Exploration & Production, Co.  
11002 E 17500 S  
Vernal, UT 84078

Re: SSU 2G-3-8-21 Well, Surface Location 842' FNL, 1958' FEL, NW NE, Sec. 3,  
T. 8 South, R. 21 East, (1) Bottom Location 2300' FNL, 1000' FWL, SW NW, Sec. 2,  
T. 8 South, R. 21 East, (2) Bottom Location 1100' FNL, 600' FEL, NE NE, Sec 4,  
T. 8 South, R. 21 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 43-047-40159.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

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



Operator: Questar Exploration & Production, Co.  
Well Name & Number SSU 2G-3-8-21  
API Number: 43-047-40159  
Lease: UTU-80636

Surface Location: NW NE                      Sec. 3                      T. 8 South                      R. 21 East  
(1)Bottom Location: SW NW                      Sec. 2                      T. 8 South                      R. 21 East  
(2)Bottom Location: NE NE                      Sec. 4                      T. 8 South                      R. 21 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 Dustin Doucet at (801) 538-5281 (801) 733-0983 home

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

Page 2

43-047-40159

June 23, 2008

7. 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.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED  
SUBMIT IN TRIPLICATE  
VERNAL FIELD OFFICE

FORM APPROVED  
OMB NO. 1040-0136  
Expires: February 28, 1995

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

TYPE OF WORK

DRILL

DEEPEN

TYPE OF WELL

SINGLE ZONE

MULTIPLE ZONE

OIL WELL

GAS WELL

OTHER

2. NAME OF OPERATOR

QUESTAR EXPLORATION & PRODUCTION, CO.

Contact: Jan Nelson

E-Mail: jan.nelson@questar.com

3. ADDRESS

11002 E. 17500 SO. Vernal, Ut 84078

Telephone number

Phone 435-781-4031 Fax 435-781-4395

4. LOCATION OF WELL (Report location clearly and in accordance with and State requirements\*)

At Surface 842' FNL 1958' FEL, LOT 2, SECTION 3, T8S, R21E

At proposed production zone See Attached Sheet

14. DISTANCE IN MILES FROM NEAREST TOWN OR POSTOFFICE\*

41 +/- MILES SOUTH OF VERNAL, UTAH

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.  
(also to nearest drig,unit line if any)

600' +/-

16. NO. OF ACRES IN LEASE

1281.12

17. NO. OF ACRES ASSIGNED TO THIS WELL

40

18. DISTANCE FROM PROPOSED location to nearest well, drilling, completed, applied for, on this lease, ft

19. PROPOSED DEPTH

9,360' MD

20. BLM/BIA Bond No. on file  
ESB000024

21. ELEVATIONS (Show whether DF, RT, GR, ect.)

4742.0' GR

22. DATE WORK WILL START

ASAP

23. Estimated duration

30 Days

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

SIGNED Jan Nelson Name (printed/typed) Jan Nelson

DATE 06/17/2008

TITLE Regulatory Affairs

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

Application approval does not warrant or certify the applicant holds any 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:

APPROVED BY [Signature] TITLE Assistant Field Manager  
Lands & Mineral Resources

\*See Instructions On Reverse Side

DATE AUG 14 2008  
RECEIVED  
SEP 16 2008

Title 18 U.S.C Section 1001, 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 mater within its jurisdiction

NOS 07/24/2007

AFMSS# 07PP2506A

DIV. OF OIL, GAS & MINING  
CONFIDENTIAL

CONDITIONS OF APPROVAL ATTACHED

UDD 6M

NOTICE OF APPROVAL



**UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE**

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

<b>Company:</b>	<b>Questar Exploration &amp; Production Co.</b>	<b>Location:</b>	<b>Lot 2, Sec. 3, T8S, R21E</b>
<b>Well No:</b>	<b>Stirrup South Unit 2G-3-8-21</b>	<b>Lease No:</b>	<b>UTU-80636</b>
<b>API No:</b>	<b>43-047-43-047-40159</b>	<b>Agreement:</b>	<b>Stirrup South Unit</b>

<b>Title</b>	<b>Name</b>	<b>Office Phone Number</b>	<b>Cell Phone Number</b>
Petroleum Engineer:	Matt Baker	(435) 781-4490	(435) 828-4470
Petroleum Engineer:	Michael Lee	(435) 781-4432	(435) 828-7875
Petroleum Engineer:	James Ashley	(435) 781-4470	(435) 828-7874
Petroleum Engineer:	Ryan Angus	(435) 781-4430	(435) 828-7368
Supervisory Petroleum Technician:	Jamie Sparger	(435) 781-4502	(435) 828-3913
NRS/Enviro Scientist:	Paul Buhler	(435) 781-4475	(435) 828-4029
NRS/Enviro Scientist:	Karl Wright	(435) 781-4484	(435) 828-7381
NRS/Enviro Scientist:	Holly Villa	(435) 781-4404	
NRS/Enviro Scientist:		(435) 781-4476	
NRS/Enviro Scientist:	Chuck Macdonald	(435) 781-4441	(435) 828-7481
NRS/Enviro Scientist:	Jannice Cutler	(435) 781-3400	(435) 828-3544
NRS/Enviro Scientist:	Michael Cutler	(435) 781-3401	(435) 828-3546
NRS/Enviro Scientist:	Anna Figueroa	(435) 781-3407	(435) 828-3548
NRS/Enviro Scientist:	Verlyn Pindell	(435) 781-3402	(435) 828-3547
NRS/Enviro Scientist:	Darren Williams	(435) 781-4447	
NRS/Enviro Scientist:	Nathan Packer	(435) 781-3405	(435) 828-3545

**Fax: (435) 781-3420**

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

**NOTIFICATION REQUIREMENTS**

Location Construction (Notify Environmental Scientist)	- Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	- Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	- Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to running casing and cementing all casing strings.
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	- Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

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

- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

**SITE SPECIFIC CONDITIONS OF APPROVAL**

- A Paleontologist acceptable to the BLM will monitor construction activity for surface disturbing activities described in the APD. If paleontologic resources are uncovered during construction activities, the operator shall immediately suspend all operations that will further disturb such resources, and immediately notify the Authorized Officer (AO). The AO will arrange for a determination of significance and, if necessary, recommend a recovery or avoidance plan.
- As in the APD, the operator has committed to not construct or drill from March 1<sup>st</sup> through August 31<sup>st</sup> to protect Ferruginous Hawks while they are nesting. If this location shall need a pumpjack in the future it is requested that a hospital muffler be used.
- Also, as in the APD, the operator has committed to construct a 2 foot berm and erosion control structure on the south side of the location after the pit is closed.

## **DOWNHOLE PROGRAM**

### **CONDITIONS OF APPROVAL (COAs)**

#### **SITE SPECIFIC DOWNHOLE COAs:**

- The conductor pipe shall be set and cemented in a competent formation.
- Variances are granted for Onshore Order #2-Drilling Operations III. E. Diverter Bowl, Blooie line can be 50-70 feet. Deduster and ignitor; drilling with mist system, OK
- Rig mounted compressors less the 100' away OK. All other requirements in O.O. #2 III. E. Special Drilling Operations are applicable.
- 7" Intermediate casing cement shall be at a minimum 200 feet inside the surface casing. A CBL shall be run from TD to top of cement and a field copy shall be sent to this field office.
- The Gamma ray log shall be run from TD to surface.

**All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to.** The following items are emphasized:

#### **DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**

- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of 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 other logs run on this well in LAS format to UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

## OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or

data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers 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 shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 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 Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

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.  
UTU-80636

6. If Indian, Allottee or Tribe Name  
N/A

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

1. Type of Well

Oil Well     Gas Well     Other

**CONFIDENTIAL**

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

2. Name of Operator  
QUESTAR EXPLORATION & PRODUCTION CO.

8. Well Name and No.  
SSU 2G 3 8 21

3a. Address  
11002 East 17500 South - Vernal, UT 84078

3b. Phone No. (include area code)  
435.781.4342 - Dahn Caldwell

9. API Well No.  
43-047-40159

10. Field and Pool or Exploratory Area  
UNDESIGNATED

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Surface: 842' FNL, 1958' FEL, NWNE, Sec 3-T8S-R21E  
Bottom (1): 2300' FNL, 1000' FWL, SWNW, Sec 2-T8S-R21E - Bottom (2): 1100' FNL, 600' FEL, NENE, Sec 4-T8S-R21E

11. Country or Parish, State  
Uintah County - Utah

12. CHECK THE 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 <u>SPUD NOTICE</u>
	<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	

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 recomplate 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 must 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 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

On 12/1/08 - Drilled 17-1/2" hole, put 14" conductor pipe down hole 80'. Cmdt w/ Ready Mix.

**RECEIVED**

**DEC 04 2008**

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

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

Name (Printed/Typed)

Dahn Caldwell

Title Office Administrator

Signature

Date 12/02/2008

**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, 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)

**CONFIDENTIAL**

OPERATOR: **Questar Exploration & Production Co.**  
ADDRESS: **11002 East 17500 South**  
**Vernal, Utah 84078 (435)781-4342**

ENTITY ACTION FORM - FORM 6

Action Code	Current Entity No.	New Entity No.	API Number	Well Name	QQ	SC	TP	RG	County	Spud Date	Effective Date
A	99999	17236	43-047-40159	SSU 2G 3 8 21	NWNE	3	8S	21E	Uintah	12/01/2008	12/4/08
WELL 1 COMMENTS: <b>BOTTOM LOCATION (1): SWNW, SEC 2-T8S-R21E</b> <i>GREEN</i> <b>BOTTOM LOCATION (2): NENE, SEC 4-T8S-R21E</b>										<b>CONFIDENTIAL</b>	
WELL 2 COMMENTS:											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

ACTION CODES (See instructions on back of form)

- 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)

NOTE: Use COMMENT section to explain why each Action Code was selected.

(3/89)

*John Caldwell*  
Signature

Office Administrator 12/2/08  
Title Date

Phone No. **(435)781-4342**

**RECEIVED**  
**DEC 04 2008**  
DIV. OF OIL, GAS & MINING

**CONFIDENTIAL**  
**CONFIDENTIAL**

**CONFIDENTIAL**

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>UTU-80636</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>N/A</b>
1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		7. UNIT or CA AGREEMENT NAME: <b>STIRRUP SOUTH</b>
2. NAME OF OPERATOR: <b>QUESTAR EXPLORATION &amp; PRODUCTION CO.</b>		8. WELL NAME and NUMBER: <b>SSU 2G-3-8-21</b>
3. ADDRESS OF OPERATOR: <b>11002 E. 17500 S. CITY VERNAL STATE UT ZIP 84078</b>		9. API NUMBER: <b>4304740159</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>842' FNL 1958' FEL</b>		10. FIELD AND POOL, OR WILDCAT: <b>UNDESIGNATED</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>LOT2 3 8S 21E</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 checked="" type="checkbox"/> OTHER: <b>MONTHLY STATUS 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.  
 Questar Exploration & Production Company set conductor on 12-01-2008. This location is on Questar's future drilling schedule.

NAME (PLEASE PRINT) <u>Laura Bills</u>	TITLE <u>Associate Regulatory Affairs Analyst</u>
SIGNATURE <u><i>Laura Bills</i></u>	DATE <u>4/2/2009</u>

(This space for State use only)

**RECEIVED**

**APR 07 2009**

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

**CONFIDENTIAL**

LEASE DESIGNATION AND SERIAL NUMBER:  
UTG-80636

**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.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:  
N/A

7. UNIT or CA AGREEMENT NAME:  
STIRRUP SOUTH

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

8. WELL NAME and NUMBER:  
SSU 2G-3-8-21

2. NAME OF OPERATOR:  
QUESTAR EXPLORATION & PRODUCTION CO.

9. API NUMBER:  
4304740159

3. ADDRESS OF OPERATOR:  
11002 E. 17500 S. CITY VERNAL STATE UT ZIP 84078

PHONE NUMBER:  
(435) 781-4301

10. FIELD AND POOL, OR WILDCAT:  
UNDESIGNATED

4. LOCATION OF WELL  
FOOTAGES AT SURFACE: 842' FNL 1958' FEL

COUNTY: UINTAH

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: LOT2 3 8S 21E

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: _____	<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: MONTHLY STATUS REPORT
	<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.

Questar Exploration & Production Company set conductor on 12-01-2008. This location is on Questar's future drilling schedule.

NAME (PLEASE PRINT) Laura Bills

TITLE Associate Regulatory Affairs Analyst

SIGNATURE *Laura Bills*

DATE 5/4/2009

(This space for State use only)

**RECEIVED**

**MAY 07 2009**

DIV. OF OIL, GAS & MINING

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

**CONFIDENTIAL**

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>			5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-80636
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: N/A
1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____			7. UNIT or CA AGREEMENT NAME: STIRRUP SOUTH
2. NAME OF OPERATOR: QUESTAR EXPLORATION & PRODUCTION CO.			8. WELL NAME and NUMBER: SSU 2G-3-8-21
3. ADDRESS OF OPERATOR: 11002 E. 17500 S. CITY VERNAL STATE UT ZIP 84078		PHONE NUMBER: (435) 781-4301	9. API NUMBER: 4304740159
4. LOCATION OF WELL FOOTAGES AT SURFACE: 842' FNL 1958' FEL			10. FIELD AND POOL, OR WLDCAT: UNDESIGNATED
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: LOT2 3 8S 21E			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 checked="" type="checkbox"/> OTHER: <u>MONTHLY</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<u>STATUS REPORT</u>

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

Questar Exploration & Production Company set conductor on 12-01-2008. This location is on Questar's future drilling schedule.

NAME (PLEASE PRINT) <u>Laura Bills</u>	TITLE <u>Associate Regulatory Affairs Analyst</u>
SIGNATURE	DATE <u>6/4/2009</u>

(This space for State use only)

**RECEIVED**  
**JUN 08 2009**

**CONFIDENTIAL**

**SUNDRY NOTICES AND REPORTS ON WELLS**

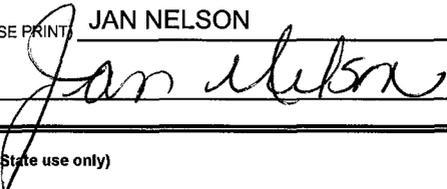
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		6. LEASE DESIGNATION AND SERIAL NUMBER: 80636
2. NAME OF OPERATOR: QUESTAR EXPLORATION & PRODUCTION CO.		7. UNIT or CA AGREEMENT NAME: STIRRUP SOUTH
3. ADDRESS OF OPERATOR: 11002 E. 17500 S. CITY VERNAL STATE UT ZIP 84078		8. WELL NAME and NUMBER: SSU 2G-3-8-21
4. LOCATION OF WELL FOOTAGES AT SURFACE: 842' FNL 1958' FEL		9. API NUMBER: 4304740159
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNE 3 8S 21E		10. FIELD AND POOL, OR WILDCAT: WONSITS VALLEY
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 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: _____	<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>MONTHLY STATUS REPORT</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.  
Questar Exploration & Production Company set conductor on 12-01-2008. This location is on Questar's future drilling schedule.

NAME (PLEASE PRINT) <u>JAN NELSON</u>	TITLE <u>Regulatory Affairs</u>
SIGNATURE 	DATE <u>7/1/2009</u>

(This space for State use only)

**RECEIVED**  
**JUL 06 2009**

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-80636
<b>SUNDRY NOTICES AND REPORTS ON WELLS</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.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <b>7. UNIT or CA AGREEMENT NAME:</b> STIRRUP SO (GRRV)
<b>1. TYPE OF WELL</b> Oil Well	<b>8. WELL NAME and NUMBER:</b> SSU 2G-3-8-21
<b>2. NAME OF OPERATOR:</b> QUESTAR EXPLORATION & PRODUCTION CO	<b>9. API NUMBER:</b> 43047401590000
<b>3. ADDRESS OF OPERATOR:</b> 11002 East 17500 South , Vernal, UT, 84078	<b>PHONE NUMBER:</b> 435 781-4362 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0842 FNL 1958 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNE Section: 03 Township: 08.0S Range: 21.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> WONSITS VALLEY  <b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> <b>DRILLING REPORT</b> Report Date: 1/31/2010	<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 OR 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"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: Monthly Status Report

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

Questar Exploration & Production Company set conductor on 12-01-2008.  
 This location is on Questar's future drilling schedule.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 August 05, 2009

<b>NAME (PLEASE PRINT)</b> Jan Nelson	<b>PHONE NUMBER</b> 435 781-4331	<b>TITLE</b> Permit Agent
<b>SIGNATURE</b> N/A	<b>DATE</b> 8/5/2009	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-80636
<b>SUNDRY NOTICES AND REPORTS ON WELLS</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.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <b>7. UNIT or CA AGREEMENT NAME:</b> STIRRUP SO (GRRV)
<b>1. TYPE OF WELL</b> Oil Well	<b>8. WELL NAME and NUMBER:</b> SSU 2G-3-8-21
<b>2. NAME OF OPERATOR:</b> QUESTAR EXPLORATION & PRODUCTION CO	<b>9. API NUMBER:</b> 43047401590000
<b>3. ADDRESS OF OPERATOR:</b> 11002 East 17500 South , Vernal, UT, 84078	<b>PHONE NUMBER:</b> 435 781-4362 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0842 FNL 1958 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNE Section: 03 Township: 08.0S Range: 21.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> WONSITS VALLEY  <b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> <b>DRILLING REPORT</b> Report Date: 8/1/2009	<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 OR 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"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER:

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

No activity on this well during the month of August, 2009.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 September 01, 2009

<b>NAME (PLEASE PRINT)</b> Jan Nelson	<b>PHONE NUMBER</b> 435 781-4331	<b>TITLE</b> Permit Agent
<b>SIGNATURE</b> N/A	<b>DATE</b> 9/1/2009	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-80636
<b>SUNDRY NOTICES AND REPORTS ON WELLS</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.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <b>7. UNIT or CA AGREEMENT NAME:</b> STIRRUP SO (GRRV)
<b>1. TYPE OF WELL</b> Oil Well	<b>8. WELL NAME and NUMBER:</b> SSU 2G-3-8-21
<b>2. NAME OF OPERATOR:</b> QUESTAR EXPLORATION & PRODUCTION CO	<b>9. API NUMBER:</b> 43047401590000
<b>3. ADDRESS OF OPERATOR:</b> 11002 East 17500 South , Vernal, UT, 84078	<b>PHONE NUMBER:</b> 435 781-4362 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0842 FNL 1958 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNE Section: 03 Township: 08.0S Range: 21.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> WONSITS VALLEY  <b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> <b>DRILLING REPORT</b> Report Date: 10/8/2009	<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 OR 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"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER:

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

No activity on this well for the month of September 2009.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 October 12, 2009

<b>NAME (PLEASE PRINT)</b> Jan Nelson	<b>PHONE NUMBER</b> 435 781-4331	<b>TITLE</b> Permit Agent
<b>SIGNATURE</b> N/A	<b>DATE</b> 10/8/2009	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</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.	<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-80636
	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  7. <b>UNIT or CA AGREEMENT NAME:</b> STIRRUP SO (GRRV)
<b>1. TYPE OF WELL</b> Oil Well	<b>8. WELL NAME and NUMBER:</b> SSU 2G-3-8-21
<b>2. NAME OF OPERATOR:</b> QUESTAR EXPLORATION & PRODUCTION CO	<b>9. API NUMBER:</b> 43047401590000
<b>3. ADDRESS OF OPERATOR:</b> 11002 East 17500 South , Vernal, UT, 84078	<b>PHONE NUMBER:</b> 435 781-4362 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0842 FNL 1958 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNE Section: 03 Township: 08.0S Range: 21.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> WONSITS VALLEY  <b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> <b>DRILLING REPORT</b> Report Date: 10/31/2009	<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 OR 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"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER:

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

No activity on this well during the month of October 2009.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 November 02, 2009

<b>NAME (PLEASE PRINT)</b> Jan Nelson	<b>PHONE NUMBER</b> 435 781-4331	<b>TITLE</b> Permit Agent
<b>SIGNATURE</b> N/A	<b>DATE</b> 11/2/2009	

<p><b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING</p>	<p><b>FORM 9</b></p>
<p><b>SUNDRY NOTICES AND REPORTS ON WELLS</b></p> <p>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.</p>	<p><b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-80636</p>
<p><b>1. TYPE OF WELL</b> Oil Well</p>	<p><b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b></p>
<p><b>2. NAME OF OPERATOR:</b> QUESTAR EXPLORATION &amp; PRODUCTION CO</p>	<p><b>7. UNIT or CA AGREEMENT NAME:</b> STIRRUP SO (GRRV)</p>
<p><b>3. ADDRESS OF OPERATOR:</b> 11002 East 17500 South , Vernal, UT, 84078</p>	<p><b>8. WELL NAME and NUMBER:</b> SSU 2G-3-8-21</p>
<p><b>4. LOCATION OF WELL FOOTAGES AT SURFACE:</b> 0842 FNL 1958 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNE Section: 03 Township: 08.0S Range: 21.0E Meridian: S</p>	<p><b>9. API NUMBER:</b> 43047401590000</p>
<p><b>PHONE NUMBER:</b> 435 781-4362 Ext</p>	<p><b>9. FIELD and POOL or WILDCAT:</b> WONSITS VALLEY</p>
	<p><b>COUNTY:</b> UINTAH</p>
	<p><b>STATE:</b> UTAH</p>

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> <b>DRILLING REPORT</b> Report Date: 11/1/2009	<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 OR 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"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER:

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

No activity on this well during the month of November 2009.

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY**  
December 01, 2009

<p><b>NAME (PLEASE PRINT)</b> Jan Nelson</p>	<p><b>PHONE NUMBER</b> 435 781-4331</p>	<p><b>TITLE</b> Permit Agent</p>
<p><b>SIGNATURE</b> N/A</p>	<p><b>DATE</b> 12/1/2009</p>	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-80636
<b>SUNDRY NOTICES AND REPORTS ON WELLS</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.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <b>7. UNIT or CA AGREEMENT NAME:</b> STIRRUP SO (GRRV)
<b>1. TYPE OF WELL</b> Oil Well	<b>8. WELL NAME and NUMBER:</b> SSU 2G-3-8-21
<b>2. NAME OF OPERATOR:</b> QUESTAR EXPLORATION & PRODUCTION CO	<b>9. API NUMBER:</b> 43047401590000
<b>3. ADDRESS OF OPERATOR:</b> 11002 East 17500 South , Vernal, UT, 84078	<b>PHONE NUMBER:</b> 435 781-4362 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0842 FNL 1958 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNE Section: 03 Township: 08.0S Range: 21.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> WONSITS VALLEY  <b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> <b>DRILLING REPORT</b> Report Date: 12/31/2009	<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 OR 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"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER:

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

No activity on this well during the month of December 2009.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 January 04, 2010

<b>NAME (PLEASE PRINT)</b> Jan Nelson	<b>PHONE NUMBER</b> 435 781-4331	<b>TITLE</b> Permit Agent
<b>SIGNATURE</b> N/A	<b>DATE</b> 1/4/2010	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</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.	<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-80636
	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  _____
	<b>7. UNIT or CA AGREEMENT NAME:</b> STIRRUP SO (GRRV)
<b>1. TYPE OF WELL</b> Oil Well	<b>8. WELL NAME and NUMBER:</b> SSU 2G-3-8-21
<b>2. NAME OF OPERATOR:</b> QUESTAR EXPLORATION & PRODUCTION CO	<b>9. API NUMBER:</b> 43047401590000
<b>3. ADDRESS OF OPERATOR:</b> 11002 East 17500 South , Vernal, UT, 84078	<b>PHONE NUMBER:</b> 435 781-4362 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0842 FNL 1958 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNE Section: 03 Township: 08.0S Range: 21.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> WONSITS VALLEY  <b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> <b>DRILLING REPORT</b> Report Date: 1/31/2010	<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 OR 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"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER:

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

No activity on this well during the month of January 2010.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 February 02, 2010

<b>NAME (PLEASE PRINT)</b> Jan Nelson	<b>PHONE NUMBER</b> 435 781-4331	<b>TITLE</b> Permit Agent
<b>SIGNATURE</b> N/A	<b>DATE</b> 2/1/2010	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-80636
<b>SUNDRY NOTICES AND REPORTS ON WELLS</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.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <b>7. UNIT or CA AGREEMENT NAME:</b> STIRRUP SO (GRRV)
<b>1. TYPE OF WELL</b> Oil Well	<b>8. WELL NAME and NUMBER:</b> SSU 2G-3-8-21
<b>2. NAME OF OPERATOR:</b> QUESTAR EXPLORATION & PRODUCTION CO	<b>9. API NUMBER:</b> 43047401590000
<b>3. ADDRESS OF OPERATOR:</b> 11002 East 17500 South , Vernal, UT, 84078	<b>PHONE NUMBER:</b> 435 781-4362 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0842 FNL 1958 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNE Section: 03 Township: 08.0S Range: 21.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> WONSITS VALLEY  <b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> <b>DRILLING REPORT</b> Report Date: 3/31/2010	<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 OR 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"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER:

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

No activity on this well during the month of March 2010.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 April 05, 2010

<b>NAME (PLEASE PRINT)</b> Jan Nelson	<b>PHONE NUMBER</b> 435 781-4331	<b>TITLE</b> Permit Agent
<b>SIGNATURE</b> N/A	<b>DATE</b> 4/5/2010	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-80636
<b>SUNDRY NOTICES AND REPORTS ON WELLS</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.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <b>7. UNIT or CA AGREEMENT NAME:</b> STIRRUP SO (GRRV)
<b>1. TYPE OF WELL</b> Oil Well	<b>8. WELL NAME and NUMBER:</b> SSU 2G-3-8-21
<b>2. NAME OF OPERATOR:</b> QUESTAR EXPLORATION & PRODUCTION CO	<b>9. API NUMBER:</b> 43047401590000
<b>3. ADDRESS OF OPERATOR:</b> 11002 East 17500 South , Vernal, UT, 84078	<b>PHONE NUMBER:</b> 435 781-4362 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0842 FNL 1958 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNE Section: 03 Township: 08.0S Range: 21.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> WONSITS VALLEY  <b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> <b>DRILLING REPORT</b> Report Date: 4/30/2010	<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 OR 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"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER:

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

No activity on this well during the month of April 2010.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 May 06, 2010

<b>NAME (PLEASE PRINT)</b> Jan Nelson	<b>PHONE NUMBER</b> 435 781-4331	<b>TITLE</b> Permit Agent
<b>SIGNATURE</b> N/A	<b>DATE</b> 5/6/2010	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-80636
<b>SUNDRY NOTICES AND REPORTS ON WELLS</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.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <b>7. UNIT or CA AGREEMENT NAME:</b> STIRRUP SO (GRRV)
<b>1. TYPE OF WELL</b> Oil Well	<b>8. WELL NAME and NUMBER:</b> SSU 2G-3-8-21
<b>2. NAME OF OPERATOR:</b> QUESTAR EXPLORATION & PRODUCTION CO	<b>9. API NUMBER:</b> 43047401590000
<b>3. ADDRESS OF OPERATOR:</b> 11002 East 17500 South , Vernal, UT, 84078	<b>PHONE NUMBER:</b> 435 781-4362 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0842 FNL 1958 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNE Section: 03 Township: 08.0S Range: 21.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> WONSITS VALLEY  <b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> <b>DRILLING REPORT</b> Report Date: 2/28/2010	<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 OR 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"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER:

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

No activity on this well during the month of February 2010.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 March 03, 2010

<b>NAME (PLEASE PRINT)</b> Jan Nelson	<b>PHONE NUMBER</b> 435 781-4331	<b>TITLE</b> Permit Agent
<b>SIGNATURE</b> N/A	<b>DATE</b> 3/3/2010	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-80636
<b>SUNDRY NOTICES AND REPORTS ON WELLS</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.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <b>7. UNIT or CA AGREEMENT NAME:</b> STIRRUP SO (GRRV)
<b>1. TYPE OF WELL</b> Oil Well	<b>8. WELL NAME and NUMBER:</b> SSU 2G-3-8-21
<b>2. NAME OF OPERATOR:</b> QUESTAR EXPLORATION & PRODUCTION CO	<b>9. API NUMBER:</b> 43047401590000
<b>3. ADDRESS OF OPERATOR:</b> 11002 East 17500 South , Vernal, UT, 84078	<b>PHONE NUMBER:</b> 435 781-4362 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0842 FNL 1958 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNE Section: 03 Township: 08.0S Range: 21.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> WONSITS VALLEY  <b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> <b>DRILLING REPORT</b> Report Date: 3/31/2010	<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 OR 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"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER:

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

No activity on this well during the month of March 2010.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 April 05, 2010

<b>NAME (PLEASE PRINT)</b> Jan Nelson	<b>PHONE NUMBER</b> 435 781-4331	<b>TITLE</b> Permit Agent
<b>SIGNATURE</b> N/A	<b>DATE</b> 4/5/2010	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-80636
<b>SUNDRY NOTICES AND REPORTS ON WELLS</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.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <b>7. UNIT or CA AGREEMENT NAME:</b> STIRRUP SO (GRRV)
<b>1. TYPE OF WELL</b> Oil Well	<b>8. WELL NAME and NUMBER:</b> SSU 2G-3-8-21
<b>2. NAME OF OPERATOR:</b> QUESTAR EXPLORATION & PRODUCTION CO	<b>9. API NUMBER:</b> 43047401590000
<b>3. ADDRESS OF OPERATOR:</b> 11002 East 17500 South , Vernal, UT, 84078	<b>PHONE NUMBER:</b> 435 781-4362 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0842 FNL 1958 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNE Section: 03 Township: 08.0S Range: 21.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> WONSITS VALLEY  <b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 6/30/2010  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> <b>CHANGE TO PREVIOUS PLANS</b> <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER:

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

Questar Exploration and Production Company request approval to run a pinch packer completion system in the laterals. The location of the packer elements will be determined after evaluating the mud logs.

**Accepted by the  
Utah Division of  
Oil, Gas and Mining**

Date: May 13, 2010  
 By: *[Signature]*

<b>NAME (PLEASE PRINT)</b> Jan Nelson	<b>PHONE NUMBER</b> 435 781-4331	<b>TITLE</b> Permit Agent
<b>SIGNATURE</b> N/A	<b>DATE</b> 5/13/2010	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-80636
<b>SUNDRY NOTICES AND REPORTS ON WELLS</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.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <b>7. UNIT or CA AGREEMENT NAME:</b> STIRRUP SO (GRRV)
<b>1. TYPE OF WELL</b> Oil Well	<b>8. WELL NAME and NUMBER:</b> SSU 2G-3-8-21
<b>2. NAME OF OPERATOR:</b> QUESTAR EXPLORATION & PRODUCTION CO	<b>9. API NUMBER:</b> 43047401590000
<b>3. ADDRESS OF OPERATOR:</b> 11002 East 17500 South , Vernal, UT, 84078	<b>PHONE NUMBER:</b> 303 308-3068 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0842 FNL 1958 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNE Section: 03 Township: 08.0S Range: 21.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> WONSITS VALLEY  <b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> <b>DRILLING REPORT</b> Report Date: 5/31/2010	<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 OR 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"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER:

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

No activity on this well during the month of May 2010.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 June 07, 2010

<b>NAME (PLEASE PRINT)</b> Jan Nelson	<b>PHONE NUMBER</b> 435 781-4331	<b>TITLE</b> Permit Agent
<b>SIGNATURE</b> N/A	<b>DATE</b> 6/2/2010	

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET (for state use only)**

**ROUTING**  
 CDW

Change of Operator (Well Sold)

**X - Operator Name Change**

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

**6/14/2010**

<b>FROM: (Old Operator):</b> N5085-Questar Exploration and Production Company 1050 17th St, Suite 500 Denver, CO 80265  Phone: 1 (303) 308-3048	<b>TO: (New Operator):</b> N3700-QEP Energy Company 1050 17th St, Suite 500 Denver, CO 80265  Phone: 1 (303) 308-3048
--	--

WELL NAME	CA No.	Unit:	STIRRUP SO (GRRV)	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
SEE ATTACHED											

**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: 6/28/2010
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 6/28/2010
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 6/24/2010
- Is the new operator registered in the State of Utah: Business Number: 764611-0143
- (R649-9-2) Waste Management Plan has been received on: Requested
- Inspections of LA PA state/fee well sites complete on: n/a
- 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 8/16/2010 BIA not yet
- Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: 8/16/2010
- Federal and Indian Communization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on: N/A
- Underground Injection Control ("UIC")** 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: 6/29/2010

**DATA ENTRY:**

- Changes entered in the **Oil and Gas Database** on: 6/30/2010
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 6/30/2010
- Bond information entered in RBDMS on: 6/30/2010
- Fee/State wells attached to bond in RBDMS on: 6/30/2010
- Injection Projects to new operator in RBDMS on: 6/30/2010
- Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

**BOND VERIFICATION:**

- Federal well(s) covered by Bond Number: ESB000024
- Indian well(s) covered by Bond Number: 965010693
- (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number 965010695
- The **FORMER** operator has requested a release of liability from their bond on: n/a

**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: 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 See attached
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 See attached
		7. UNIT or CA AGREEMENT NAME: See attached
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____	8. WELL NAME and NUMBER: See attached	
2. NAME OF OPERATOR: Questar Exploration and Production Company <i>N5085</i>	9. API NUMBER: Attached	
3. ADDRESS OF OPERATOR: 1050 17th Street, Suite 500 <small>CITY</small> Denver <small>STATE</small> CO <small>ZIP</small> 80265	PHONE NUMBER: (303) 672-6900	10. FIELD AND POOL, OR WILDCAT: See attached
4. LOCATION OF WELL FOOTAGES AT SURFACE: See attached		COUNTY: Attached
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: <u>6/14/2010</u>	<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>Operator Name Change</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.

Effective June 14, 2010 Questar Exploration and Production Company changed its name to QEP Energy Company. This name change involves only an internal corporate name change and no third party change of operator is involved. The same employees will continue to be responsible for operations of the properties described on the attached list. All operations will continue to be covered by bond numbers:  
 Federal Bond Number: 965002976 (BLM Reference No. ESB000024) *N3700*  
 Utah State Bond Number: ~~965003033~~ } *965010695*  
 Fee Land Bond Number: ~~965003033~~ } *965010695*  
 BIA Bond Number: ~~799446~~ } *965010693*

The attached document is an all inclusive list of the wells operated by Questar Exploration and Production Company. As of June 14, 2010 QEP Energy Company assumes all rights, duties and obligations as operator of the properties as described on the list

NAME (PLEASE PRINT) <u>Morgan Anderson</u>	TITLE <u>Regulatory Affairs Analyst</u>
SIGNATURE <i>Morgan Anderson</i>	DATE <u>6/23/2010</u>

(This space for State use only)

**RECEIVED**  
**JUN 28 2010**  
DIV. OF OIL, GAS & MINING

**APPROVED** *6/13/01 2009*  
*Earlene Russell*  
Division of Oil, Gas and Mining  
Earlene Russell, Engineering Technician

(See Instructions on Reverse Side)

(5/2000)

Questar Exploration Production Company (N5085) to QEP Energy Company (N3700)  
 STIRRUP SOUTH (GRRV)  
 effective June 14, 2010

well_name	sec	twp	rng	api	entity	mineral lease	type	stat	C
WV 3G-10-8-21	10	080S	210E	4304734106	13241	Federal	OW	P	
WV 15G-3-8-21	03	080S	210E	4304734109	13241	Federal	OW	P	
WV 16G-3-8-21	03	080S	210E	4304734110	13241	Federal	OW	P	
SSU 8G-9-8-21	09	080S	210E	4304736736	14997	Federal	OW	P	
SSU 2G-9-8-21	09	080S	210E	4304737990	13241	Federal	OW	P	
SSU 11G-9-8-21	09	080S	210E	4304737991	16007	Federal	OW	P	
SSU 16G-4-8-21	04	080S	210E	4304738415	13241	Federal	OW	P	
SSU 14G-4-8-21	04	080S	210E	4304738436	13241	Federal	OW	P	
SSU 2G-3-8-21	03	080S	210E	4304740159	17236	Federal	OW	OPS	C
SSU 13G-4-8-21	04	080S	210E	4304740199	17275	Federal	OW	OPS	C

Bonds: BLM = ESB000024  
 BIA = 956010693  
 State = 965010695



# 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:  
3100  
(UT-922)

JUL 28 2010

### Memorandum

To: Vernal Field Office, Price Field Office, Moab Field Office

From: Chief, Branch of Minerals

*Roger L Bankert*

Subject: Name Change Recognized

Attached is a copy of the Certificate of Name Change issued by the Texas Secretary of State and a decision letter recognizing the name change from the Eastern States Office. We have updated our records to reflect the name change in the attached list of leases.

The name change from **Questar Exploration and Production Company** into **QEP Energy Company** is effective June 8, 2010.

cc: MMS  
UDOGM

RECEIVED

AUG 16 2010

DIV. OF OIL, GAS & MINERALS

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-80636
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<b>SUNDRY NOTICES AND REPORTS ON WELLS</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.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <b>7. UNIT or CA AGREEMENT NAME:</b> STIRRUP SO (GRRV)
--	---

<b>1. TYPE OF WELL</b> Oil Well	<b>8. WELL NAME and NUMBER:</b> SSU 2G-3-8-21
------------------------------------	--

<b>2. NAME OF OPERATOR:</b> QEP ENERGY COMPANY	<b>9. API NUMBER:</b> 43047401590000
---	---

<b>3. ADDRESS OF OPERATOR:</b> 11002 East 17500 South , Vernal, Ut, 84078	<b>PHONE NUMBER:</b> 303 308-3068 Ext	<b>9. FIELD and POOL or WILDCAT:</b> WONSITS VALLEY
--	--	--

<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0842 FNL 1958 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNE Section: 03 Township: 08.0S Range: 21.0E Meridian: S	<b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH
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11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 7/15/2010  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> <b>ALTER CASING</b> <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER:

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

QEP Energy Company request permission to change the 7" casing grade from 26# HCP-110 to 26# N-80 LT&C. The substituted pipe meets the design requirements.

**Accepted by the Utah Division of Oil, Gas and Mining**  
  
**Date:** July 01, 2010  
**By:** *Dan K. [Signature]*

<b>NAME (PLEASE PRINT)</b> Jan Nelson	<b>PHONE NUMBER</b> 435 781-4331	<b>TITLE</b> Permit Agent
<b>SIGNATURE</b> N/A		<b>DATE</b> 7/1/2010

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-80636
<b>SUNDRY NOTICES AND REPORTS ON WELLS</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.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <b>7. UNIT or CA AGREEMENT NAME:</b> STIRRUP SO (GRRV)
<b>1. TYPE OF WELL</b> Oil Well	<b>8. WELL NAME and NUMBER:</b> SSU 2G-3-8-21
<b>2. NAME OF OPERATOR:</b> QEP ENERGY COMPANY	<b>9. API NUMBER:</b> 43047401590000
<b>3. ADDRESS OF OPERATOR:</b> 11002 East 17500 South , Vernal, Ut, 84078	<b>PHONE NUMBER:</b> 303 308-3068 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0842 FNL 1958 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNE Section: 03 Township: 08.0S Range: 21.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> WONSITS VALLEY  <b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> <b>DRILLING REPORT</b> Report Date: 6/30/2010	<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 OR 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"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER:

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

No activity on this well during the month of June 2010.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 July 08, 2010

<b>NAME (PLEASE PRINT)</b> Jan Nelson	<b>PHONE NUMBER</b> 435 781-4331	<b>TITLE</b> Permit Agent
<b>SIGNATURE</b> N/A	<b>DATE</b> 7/7/2010	

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.  
UTU-80636

6. If Indian, Allottee or Tribe Name  
N/A

**SUBMIT IN TRIPLICATE – Other instructions on page 2.**

1. Type of Well

Oil Well     Gas Well     Other

2. Name of Operator  
QUESTAR EXPLORATION & PRODUCTION CO.

3a. Address  
11002 East 17500 South - Vernal, UT 84078

3b. Phone No. (include area code)  
435.781.4342 - Dahn Caldwell

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Surface: 842' FNL, 1958' FEL, NWNE, Sec 3-T8S-R21E  
Bottom (1): 2300' FNL, 1000' FWL, SWNW, Sec 2-T8S-R21E - Bottom (2): 1100' FNL, 600' FEL, NENE, Sec 4-T8S-R21E

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

8. Well Name and No.  
SSU 2G 3 8 21

9. API Well No.  
43-047-40159

10. Field and Pool or Exploratory Area  
UNDESIGNATED

11. Country or Parish, State  
Uintah County - Utah

12. CHECK THE 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 <u>Set Csg Surface</u>
	<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	

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 must 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 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

On 12/1/08 - Drilled 17-1/2" hole, put 14" conductor pipe down hole 80'. Cmtd w/ Ready Mix.

On 7/8/10 - drilled 12-1/4" hole to 540' and set 9-5/8", K-55, 36# csg @ 498'. Cemented w/ 225 sxs of Class 'G' Cement.

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JUL 09 2010

DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct.  
Name (Printed/Typed)

Dahn Caldwell

Title Office Administrator

Signature

Date 07/09/2010

**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, 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)

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-80636
---	--

<b>SUNDRY NOTICES AND REPORTS ON WELLS</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.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <b>7. UNIT or CA AGREEMENT NAME:</b> STIRRUP SO (GRRV)
<b>1. TYPE OF WELL</b> Oil Well	<b>8. WELL NAME and NUMBER:</b> SSU 2G-3-8-21
<b>2. NAME OF OPERATOR:</b> QEP ENERGY COMPANY	<b>9. API NUMBER:</b> 43047401590000
<b>3. ADDRESS OF OPERATOR:</b> 11002 East 17500 South , Vernal, Ut, 84078	<b>PHONE NUMBER:</b> 303 308-3068 Ext
<b>9. FIELD and POOL or WILDCAT:</b> WONSITS VALLEY	<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0842 FNL 1958 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNE Section: 03 Township: 08.0S Range: 21.0E Meridian: S
	<b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> <b>DRILLING REPORT</b> Report Date: 7/30/2010	<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 OR 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"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

This sundry is to inform you that drilling operation commenced on July 30, 2010.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 August 04, 2010

<b>NAME (PLEASE PRINT)</b> Jan Nelson	<b>PHONE NUMBER</b> 435 781-4331	<b>TITLE</b> Permit Agent
<b>SIGNATURE</b> N/A	<b>DATE</b> 8/3/2010	

**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 <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER _____  b. TYPE OF WORK: NEW WELL <input type="checkbox"/> HORIZ. LATS. <input checked="" type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER <u>Dual Lateral</u>		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>UTU-80636</b>  6. IF INDIAN, ALLOTTEE OR TRIBE NAME <b>N/A</b>  7. UNIT or CA AGREEMENT NAME <b>STIRRUP SOUTH</b>  8. WELL NAME and NUMBER: <b>SSU 2G 3 8 21</b>
2. NAME OF OPERATOR: <b>QEP ENERGY COMPANY</b>		9. API NUMBER: <b>4304740159</b>
3. ADDRESS OF OPERATOR: <b>11002 E. 17500 S. CITY VERNAL STATE UT ZIP 84078</b>		10. FIELD AND POOL, OR WILDCAT <b>UNDESIGNATED</b>
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: <b>842' FNL, 1958' FEL</b>  AT TOP PRODUCING INTERVAL REPORTED BELOW: <b>LAT 1 - 859 FNL 652 FEL N/A</b>  AT TOTAL DEPTH: <b>2091' FNL, 1419' FWL IL 2 - 2086 FNL 1419 FNL SEW</b>		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NWNE 3 8S 21E S</b>
14. DATE SPUDDED: <b>12/1/2008</b>	15. DATE T.D. REACHED: <b>10/3/2010</b>	16. DATE COMPLETED: <b>12/22/2010</b>
17. ELEVATIONS (DF, RKB, RT, GL): <b>4758' KB</b>		18. TOTAL DEPTH: MD <b>8,905 7978</b> TVD <b>5,525 3660</b>
19. PLUG BACK T.D.: MD <b>8,801</b> 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) <b>CBL</b>

23. WAS WELL CORED? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> (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
12-1/4"	9-5/8" K-55	36#		498		225		0	
8-3/4"	7" F59	26#		5,053		630		0	
6-1/8"	4-1/2" P110	11.6#		9,325					
6-1/8"	4-1/2" P110	11.6#		8,905					

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

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) Green River (L)	4,647	4,654			6,412 9,315			Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(B) Green River (U)	4,407	4,415			4,420 8,801			Open <input checked="" 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
4420' - 8801'	Acidized Upper Lateral #2 w/ 50,000 gals of 15% HCL

29. ENCLOSED ATTACHMENTS: <input type="checkbox"/> ELECTRICAL/MECHANICAL LOGS <input type="checkbox"/> GEOLOGIC REPORT <input type="checkbox"/> DST REPORT <input checked="" type="checkbox"/> DIRECTIONAL SURVEY <input type="checkbox"/> SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION <input type="checkbox"/> CORE ANALYSIS <input type="checkbox"/> OTHER: _____	30. WELL STATUS:  <b>Producing</b>
--	--

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31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 11/5/2010	TEST DATE: 11/6/2010	HOURS TESTED: 24	TEST PRODUCTION RATES: →	OIL - BBL: 38	GAS - MCF: 0	WATER - BBL: 439	PROD. METHOD: PUMP
CHOKE SIZE:	TBG. PRESS. 200	CSG. PRESS. 20	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

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: →	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: →	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: →	INTERVAL STATUS:

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

N/A

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)
				UINTA	0
				GREEN RIVER	2,684
				'X' - MARKER	4,782

35. ADDITIONAL REMARKS (include plugging procedure)

DUAL LATERAL WELL - See Attachment Page One for #4 & #27 and additional information.

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

NAME (PLEASE PRINT) Dahn Caldwell TITLE Office Administrator  
 SIGNATURE *Dahn Caldwell* DATE 12/20/2010

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

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SSU 2G 3-8-21

Attachment Page One

DOFP: 11/5/10

#4 – Upper Lateral #2 – G-1 Lime – TD: 8905' MD, PBTD: 8801' MD,  
TVD: 5523'  
Lower Lateral #1 – G-1 Lime – TD: 9325' MD, PBTD: 9315' MD,  
TVD: 5661'  
Upper Lateral BHL #2 is 2091' FNL, 1419' FWL, Sec 2-T8S-R21E  
Lower Lateral BHL #1 is 864' FNL, 652' FEL, Sec 4-T8S-R21E

#27 – Perforation Record:

Upper Lateral #2 – 4-1/2", 11.6#, P-110/N-80 LT&C w/ shoe set @ 8901'.  
Blank 4,420' – 5,972' alternating jts of blank & perforated f/ 5,972' – 8,801'.

Lower Lateral #1 – 4-1/2", 11.6#, P-110 w/ shoe set @ 9,315'. Swell pkrs  
@ 9251', 8868', 8564', 8274', 8015', 7666', 7365', 7062', 6584', 6412'.

NOTE: Frac String as of 11/5/10 - KB @ 16.00'; 7" 5K Bowl Hanger = .80'; 102  
Jts 4-1/2" , 11.6#, N-80 LT&C, Pup Jt. Csg = 4412.37', 1 - 4 1/2" 11.6#, N-80  
LT&C, pup Jt = 2.59' & 1 - 5" Liner tie back seal assembly = 20.82'. EOT @  
4452.58'.\*\*

\*\*The frac string and the 2-3/8" tbg are both going to change in the  
near future (as of 12/22/10).

Lateral designations are  
switched from original APD permit.  
ASm 1/13/2011

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Operations Summary Report - DRILLING

Well Name: SSU 2G-3-8-21  
 Location: 3-8-S 21-E 26  
 Rig Name: AZTEC

Spud Date: 7/8/2010  
 Rig Release: 10/3/2010  
 Rig Number: 781

Date	From - To	Hours	Code	Sub Code	Description of Operations
7/8/2010	06:00 - 08:00	2.00	LOC	4	RIG UP DONNA KENNEY WITH BLM WAS NOTIFIED OF SURFACE SPUD AND SURFACE CASING BOTH VERBALLY AND ELECTRONICALLY ON 7/7/2010 @ 07:30 HRS CARROL DANNIELS WITH UT STATE WAS NOTIFIED VERBALLY OF SAME @ 08:00 HRS ON 7/7/2010
	08:00 - 15:30	7.50	DRL	1	DRILL FROM 70' TO 540' (CONDUCTOR, MOUSE HOLE AND RAT HOLE WERE PREVIOUSLY DRILLED, NO INFORMATION WAS AVAILABLE FOR DATES WORK WAS DONE)
	15:30 - 16:00	0.50	CIRC	1	BLOW HOLE CLEAN
	16:00 - 17:30	1.50	TRP	3	LAY DOWN DRILL STRING
	17:30 - 19:00	1.50	CSG	2	RUN 13 JOINTS OF 9 5/8, 36# K-55, ST&C, SHOE AT
7/30/2010	19:00 - 22:00	3.00	CMT	2	CEMENT SURFACE CASING, RIG RELEASED @ 22:00 HRS
	06:00 - 06:00	24.00	LOC	4	MOVE IN SET CAMPS & R.U.R.T; NOTIFIED DONNA KENNY W/ BLM VERBALLY & ELECTRONICALLY ON 7/28/2010 @ 14:00 HRS. LEFT MESSAGE W/ DAN @ STATE @ 17:00 HRS. SAME F/ BOP TEST SET CAMPS AND RIG IN, RAISE DERRICK, R/U WATER SYSTEM, PUMPS, BACK YARD, MUD SYSTEM, ELECTRICAL LEADS, TOP DRIVE, RE-FAB FLOW LINE FOR FLEX HOSE, R/U FLOOR
7/31/2010	06:00 - 12:00	6.00	LOC	4	RIG UP FLOW LINE, GAS BUSTER, REPLACE HYDRAULIC HOSE ON TOP DRIVE, HOOK UP CHOKE AND FLARE LINES
	12:00 - 17:00	5.00	BOP	1	NIPPLE UP BOP, CHOKE MANIFOLD, GAS BUSTER AND FLARE LINES RIG BACK ON DAYRATE @ 12:00 HRS ON 7/30/2010
	17:00 - 21:30	4.50	BOP	2	TEST BOP, TEST UPPER & LOWER VALVES ON TOP-DRIVE, 250 PSI LOW, 3000PSI HIGH, TEST PIPE RAMS, HCR, KILL LINE, CHOKE, BLIND RAMS, CHOKE LINES, 250 PSI LOW, 3000 PSI HIGH, TEST HYDRIL 250 PSI LOW, 1500 PSI HIGH, SURFACE CASING 1500 PSI F/ 30 MIN.
	21:30 - 23:30	2.00	OTH		STRAP BHA.
	23:30 - 00:00	0.50	OTH		INSTALL WEAR BUSHING
8/1/2010	00:00 - 03:30	3.50	TRP	1	P/U BHA & RIH
	03:30 - 04:30	1.00	OTH		INSTALL ROTATING HEAD RUBBER AND ADJUST TORQUE ON TOP DRIVE
	04:30 - 06:00	1.50	DRL	4	DRILL SHOE TRACK, TAG CEMENT STRINGERS AT 435'
	06:00 - 07:30	1.50	DRL	4	DRILL SHOE TRACK, TAG FLOAT @ 473', SHOE @ 512', TAG BOTTOM @ 560' DRILL 10' OF NEW HOLE FROM 560' TO 570'
	07:30 - 08:00	0.50	CIRC	1	CIRCULATE FOR FIT TEST
	08:00 - 08:30	0.50	EQT	2	FIT TO 9.75 PPG, EMW - 8.4, DEPTH - 570, PRESSURED UP TO 85 PSI AND DROPPED TO 40 PSI IN 15 MIN
	08:30 - 12:30	4.00	DRL	1	DRILL FROM 570' TO 893' 323' ROP - 81'/HR GPM - 353 WOB - 8-10
	12:30 - 13:00	0.50	CIRC	1	CIRCULATE FOR SURVEY
	13:00 - 13:30	0.50	SUR	1	SURVEY @ 787
	13:30 - 14:30	1.00	DRL	1	DRILL FROM 893' TO 1049' 156' ROP - 156'/HR GPM - 412 WOB - 8-10
	14:30 - 15:30	1.00	RIG	1	RIG SERVICE
	15:30 - 18:00	2.50	RIG	2	RIG REPAIR, WORK ON TOP DRIVE ROBOTICS, X/O UNLOADER VALVE ON HYDRAULIC SYSTEM
	18:00 - 22:00	4.00	DRL	1	DRILL FROM 1049' TO 1326' 277' ROP 69 FT/HR. 412 WOB - 8-10
	22:00 - 22:30	0.50	SUR	1	SURVEY @ 1279
	22:30 - 06:00	7.50			DRILL FROM 1326' TO 1750 - 424' ROP 56.5 FT/HR GPM 478 WOB 4-12
8/2/2010	06:00 - 08:30	2.50	RIG	2	RIG REPAIR, WORK ON MUD PUMPS, C/O WASHED OUT DISCHARGE LINE ON #2 PUMP, AND WORK ON CENTRIFICAL CHARGER PUMP

RECEIVED

JAN 10 2011

CONFIDENTIAL

## Operations Summary Report

Well Name: SSU 2G-3-8-21  
 Location: 3-8-S 21-E 26  
 Rig Name: AZTEC

Spud Date: 7/8/2010  
 Rig Release: 10/3/2010  
 Rig Number: 781

Date	From - To	Hours	Code	Sub Code	Description of Operations	
8/2/2010	08:30 - 12:00	3.50	DRL	1	DRILL FROM 1750 TO 1778 28' ROP - 8'/HR WOB - 4/6 GPM - 275 (#2 PUMP DOWN FOR REPAIRS)	
	12:00 - 13:00	1.00	RIG	2	WORK ON CHARGER PUMP ELECTRICAL SWITCHING	
	13:00 - 14:30	1.50	CIRC	1	CIRCULATE AND TREAT AIRED UP MUD	
	14:30 - 15:00	0.50	RIG	1	SERVICE RIG & TOP-DRIVE	
	15:00 - 15:30	0.50	RIG	2	TROUBLE SHOOT PUMP PSI LOSS, FOUND WASHED MODUEL ON #2 PUMP, #2 MODUEL, DISCHARGE SIDE	
	15:30 - 00:00	8.50	DRL	1	DRILL FROM 1778 TO 1862' 84' ROP 9.8 FT/HR. WOB 4-12 GPM - 287 (#2 PUMP DOWN FOR REPAIRS)	
	00:00 - 00:30	0.50	SUR	1	SURVEY	
8/3/2010	00:30 - 06:00	5.50	DRL	1	DRILL FROM 1862 TO 1920 58' ROP 10.5 FT/HR. WOB 4-12 GPM 287	
	06:00 - 14:30	8.50	DRL	1	DRILL FROM 1920' TO 2120' = 200' ROP 23.5 FT/HR; WOB, 3-12 GPM 510	
	14:30 - 15:00	0.50	RIG	1	SERVICE RIG, TOP-DRIVE	
	15:00 - 19:00	4.00	DRL	1	DRILL FROM 2120' TO 2368' = 248' ROP 62 FT/HR; WOB 14-17 GPM 518	
	19:00 - 19:30	0.50	SUR	1	SURVEY	
	19:30 - 01:00	5.50	DRL	1	DRILL FROM 2368' TO 2845' = 477' ROP 86.7 FT/ HR. WOB 12-15 GPM 538	
	01:00 - 01:30	0.50	SUR	1	SURVEY	
	01:30 - 06:00	4.50	DRL	1	DRILL FROM 2845' TO 3220' = 375' ROP 83.3 FT/HR WOB 14-17 GPM 538	
	8/4/2010	06:00 - 10:30	4.50	DRL	1	DRILL FROM 3220 TO 3371 = 151' ROP - 33.5'/HR GPM - 530
		10:30 - 11:00	0.50	SUR	1	SURVEY
11:00 - 14:00		3.00	DRL	1	DRILL FROM 3371 TO 3627 = 256' ROP - 85.3' /HR WOB - 20-22 GPM - 490	
14:00 - 14:30		0.50	RIG	1	SERVICE RIG, TOP-DRIVE	
14:30 - 00:30		10.00	DRL	1	DRILL FROM 3627' TO 4056' = 429 ' ROP 42.9 FT/HR WOB 28-24 GPM - 527	
00:30 - 01:00		0.50	CIRC	1	CIRC. F/ TRIP	
01:00 - 01:30		0.50	SUR	1	DROPPED SURVEY	
01:30 - 02:00		0.50	OTH		MIX & PUMP SLUG	
02:00 - 05:00		3.00	TRP	10	TRIP F/ BIT # 1	
05:00 - 06:00		1.00	TRP	1	CHANGE OUT BIT AND MOTOR	
8/5/2010	06:00 - 07:00	1.00	TRP	1	CHANGE OUT BIT AND MOTOR	
	07:00 - 10:30	3.50	TRP	2	TRIP IN THE HOLE, SURFACE TEST MOTOR	
	10:30 - 13:00	2.50	DRL	1	DRILL FROM 4056' TO 4123' 67' ROP - 26.8'/HR WOB 2/14 GPM - 490	
	13:00 - 13:30	0.50	RIG	1	RIG SERVICE	
	13:30 - 01:00	11.50	DRL	1	DRILL FROM 4123' TO 4641' = 518' ROP - 45 FT/HR. WOB 12/17 GPM - 508	
	01:00 - 02:00	1.00	RIG	2	TROUBLE SHOOT DAP TECH SYSTEM	
	02:00 - 06:00	4.00	DRL	1	DRILL FROM 4641' TO 4870' 229' ROP 57.25 FT/HR. WOB 12/17 GPM 508	
	8/6/2010	06:00 - 06:30	0.50	DRL	1	DRILL FROM 4870 TO 4900 30' ROP - 60'/HR WOB - 18 GPM - 530

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## Operations Summary Report

Well Name: SSU 2G-3-8-21  
 Location: 3-8-S 21-E 26  
 Rig Name: AZTEC

Spud Date: 7/8/2010  
 Rig Release: 10/3/2010  
 Rig Number: 781

Date	From - To	Hours	Code	Sub Code	Description of Operations
8/6/2010	06:30 - 07:00	0.50	CIRC	1	CIRCULATE VIS SWEEP
	07:00 - 07:30	0.50	SUR	1	DROP MULTI SHOT SURVEY TOOL AND PUMP TRIP SLUG
	07:30 - 10:30	3.00	TRP	2	TRIP OUT OF THE HOLE TO PICK UP DIRECTIONAL TOOLS SURVEY OUT WITH MULTI SHOT
	10:30 - 11:30	1.00	TRP	1	LAY DOWN DCS, SURVEY TOOL, MONEL, MOTOR AND BIT PICK UP DIRECTIONAL TOOLS, SCRIBE AND ORIENT
	11:30 - 12:30	1.00	RIG	1	RIG SERVICE
	12:30 - 15:00	2.50	TRP	1	PICK UP DIRRECTIONAL TOOLS
	15:00 - 16:00	1.00	TRP	2	TRIP IN HOLE
	16:00 - 17:00	1.00	DRL	3	TEST MWD & RESET DATA PARAMETERS
	17:00 - 19:00	2.00	TRP	2	TRIP IN HOLE TO 4821'
	19:00 - 20:00	1.00	REAM	1	WASH 79' TO BOTTOM
	20:00 - 01:00	5.00	DRL	2	DIR. DRILL F/ 4900 TO 5057 157' ROP 31.4 FT/HR WOB 11/15 GPM - 490
	01:00 - 01:30	0.50	SUR	1	SURVEYS
	01:30 - 05:30	4.00	DRL	2	DIR. DRILL F/ 5057 TO 5250' = 223 ROP 55.75 FT/HR. WOB 15 GPM 490
	8/7/2010	05:30 - 06:00	0.50	SUR	1
06:00 - 07:00		1.00	OTH		WORK ON #2 PUMP DISCHARGE LINE
07:00 - 07:30		0.50	DRL	2	DIRECTIONAL DRILL FROM 5250' TO 5270' - 20' ROP - 40'/HR GPM - 490 WOB - SLIDING W/12
07:30 - 11:30		4.00	OTH		WORK ON #1 PUMP, CHANGE OUT SWABS AND LINERS IN #1, #2 AND #3 HOLES, REPLACE STARTER ON #2 ENGINE, WORK ON DAP TECH
11:30 - 14:30		3.00	DRL	2	DIRECTIONAL DRILL FROM 5270' TO 5324' - 54' ROP - 18' FT/HR. GPM - 490 WOB SLIDING W/ 14
14:30 - 15:30		1.00	OTH		WORK ON # 1 PUMP, REPLACE SWAB ON #2 HOLE
15:30 - 16:30		1.00	DRL	2	DIRECTIONAL DRILL FROM 5324' TO 5345' 21' ROP 21 FT/HR. GPM - 490 SLIDING W/ 14
16:30 - 17:00		0.50	WOT	2	WAIT ON ORDERS
17:00 - 19:00		2.00	DRL	2	DIRECTIONAL DRILL FROM 5345' TO 5403' 58' 29 FT/HR. GPM 490 SLIDING W/ 16
19:00 - 20:00		1.00	CIRC	1	CIRC. & PUMP SLUG
20:00 - 00:00		4.00	TRP	2	TRP OUT TO BEND M.MTR. TO A 2.6° BEND,
00:00 - 00:30		0.50	RIG	1	SERVICE RIG, TOP-DRIVE, FUNCTION BLIND, PIPE RAMS & ANN.
00:30 - 02:00		1.50	DRL	3	ORIENT DIR. TOOLS
02:00 - 03:00		1.00	TRP	2	TRIP IN HOLE TO SHOE
03:00 - 04:00	1.00	RIG	6	CUT DRLG. LINE	
04:00 - 06:00	2.00	TRP	2	TRIP IN HOLE, FILL PIPE & TEST MWD	
8/8/2010	06:00 - 07:00	1.00	TRP	2	TRIP IN THE HOLE TO 5145
	07:00 - 09:30	2.50	OTH		RE-LOG GAMMA FROM 5145' TO 5246' @ 70'/HR
	09:30 - 10:00	0.50	TRP	2	TRIP IN THE HOLE TO 5350'
	10:00 - 11:30	1.50	REAM	1	WASH AND REAM FROM 5350' TO 5403
	11:30 - 15:00	3.50	DRL	2	DIRECTIONAL DRILL FROM 5403 TO 5461
	15:00 - 15:30	0.50	SUR	1	SURVEYS
	15:30 - 22:00	6.50	DRL	2	DIRECTIONAL DRILL FROM 5461 TO 5519
	22:00 - 23:00	1.00	CIRC	1	CIRC. & PUMP SLUG
	23:00 - 02:00	3.00	TRP	2	TRIP OUT TO BEND M.MTR. TO A 2.42° BEND, BIT CAME OUT OF THE HOLE WITH A BROKE BLADE KICK PAD SLEVE WAS TURNED TO 90° RIGHT FROM LOW SIDE
	02:00 - 02:30	0.50	RIG	1	SERVICE RIG, TOP-DRIVE
	02:30 - 04:00	1.50	TRP	1	L/D & X/O M. MTRS. & SLEVE AND BIT

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## Operations Summary Report

Well Name: SSU 2G-3-8-21  
 Location: 3-8-S 21-E 26  
 Rig Name: AZTEC

Spud Date: 7/8/2010  
 Rig Release: 10/3/2010  
 Rig Number: 781

Date	From - To	Hours	Code	Sub Code	Description of Operations
8/8/2010	04:00 - 05:30	1.50	DRL	3	ORIENT DIR. TOOLS
	05:30 - 06:00	0.50	TRP	2	TRIP IN HOLE, FILL PIPE & TEST MWD.
8/9/2010	06:00 - 10:00	4.00	TRP	2	TRIP IN, TAG BRIDGE AT 5285'
	10:00 - 12:30	2.50	REAM	1	WASH AND REAM FROM 5285' TO 5373'
	12:30 - 14:00	1.50	RIG	2	CHANGE OUT LINER AND SWAB ON #2 PUMP( MOTOR SIDE)
	14:00 - 15:00	1.00	OTH		RIG SERVICECHECK FOR PSI GAIN
	15:00 - 19:00	4.00	REAM	1	WASH AND REAM FROM 5373' TO BOTTOM 146'
	19:00 - 19:30	0.50	OTH		WORK JUNK IN HOLE, HOLE CLEAN
	19:30 - 21:00	1.50	OTH		ATTEMPT TO DRILL, NO SUCCESS
	21:00 - 22:00	1.00	CIRC	1	CIRC. MIX & PUMP SLUG
	22:00 - 01:30	3.50	TRP	2	TRIP OUT TO & X/O B.H.A.
	01:30 - 04:00	2.50	TRP	1	L/D & X/O M. MTRS. & SLEEVE, BIT, AND MONELS TO FLEX
	04:00 - 05:00	1.00	RIG	1	RIG SERVICE, CHANGE OIL IN TOP DRIVE
	05:00 - 06:00	1.00	TRP	2	MAKE UP STABILIZER SLEEVE, PICK UP FLEX MONELS
8/10/2010	06:00 - 07:00	1.00	TRP	2	ORIENT TOOLS, PICKED UP 3 NON MAG FLEX COLLARS
	07:00 - 07:30	0.50	OTH		INSTALL ROTATING HEAD, CHANGE OUT O RING
	07:30 - 11:00	3.50	TRP	2	TRIP IN, TEST TOOLS AT 720', FILL PIPE AT 2800', LOST 97 BBLs ON TRIP
	11:00 - 12:00	1.00	REAM	1	SAFETY REAM FROM 5430' TO 5616', #2 PUMP WASHING
	12:00 - 14:00	2.00	TRP	14	TRIP OUT TO 5258', HOLE TIGHT, PUMP OUT STANDS
	14:00 - 15:00	1.00	OTH		CHANGE OUT DISCHARGE VALVE AND SEAT, #2 PUMP, ENGINE SIDE
	15:00 - 15:30	0.50	REAM	1	TRIP BACK IN 4 STANDS, SAFETY REAM 27' TO BOTTOM
	15:30 - 16:00	0.50	DRL	2	SLIDE FROM 5519' TO 5523' .4' AT 8 FPH, 5-30K WOB, 170 MOTOR RPM, 3200 PSI OFF BOTTOM AT 120 STROKES EACH PUMP, 100-200 PSI DIFFERENTIAL, 470 GPM, MUD WT 9.4, VIS 35
	16:00 - 16:30	0.50	RIG	1	RIG SERVICE
	16:30 - 19:30	3.00	DRL	2	SLIDE FROM 5523' TO 5563', AT FPH, 20-40K WOB, 155 MOTOR RPM, 3200 PSI OFF BOTTOM AT 110 STROKES EACH PUMP, 100-200 PSI DIFFERENTIAL, 431 GPM, MUD WT 9.3, VIS 35
	19:30 - 21:30	2.00	OTH		X/O WASHED OUT 4 VALVES & SEATS ON # 1PUMP MIDDLE & B.W.S SUCTION & DIS CAHRGE
	21:30 - 01:00	3.50	DRL	2	SLIDE FROM 5563' TO 5617', AT FPH, 20-40K WOB, 155 MOTOR RPM, 3200 PSI OFF BOTTOM AT 110 STROKES EACH PUMP, 100-200 PSI DIFFERENTIAL, 431 GPM, MUD WT 9.3, VIS 35
	01:00 - 02:00	1.00	CIRC	1	CIRC.
	02:00 - 03:00	1.00	OTH		MIX & PUMP PILL
	03:00 - 06:00	3.00	TRP	2	TRIP OUT TO PLUG BACK & SIDE TRCK
8/11/2010	06:00 - 08:00	2.00	TRP	2	TRIP OUT, STAND BACK FLEX MONELS, OPERATE PIPE AND BLIND RAMS, LAY DOWN BAD MOTOR AND BIT
	08:00 - 09:00	1.00	RIG	1	SERVICE RIG, CHANGE OIL IN TOP DRIVE
	09:00 - 11:00	2.00	OTH		UNLOAD AND STRAP 2 3/8" TUBING, PICK UP TUBING TOOLS AND MAKE UP SAME
	11:00 - 14:30	3.50	TRP	2	MAKE UP CEMENTING STINGER AND PICK UP 35 JOINTS 2 3/8" TUBING (1088')
	14:30 - 18:30	4.00	TRP	2	TRIP IN, TAG BOTTOM
8/12/2010	18:30 - 06:00	11.50	OTH		CIRCULATE AND WAIT ON HALLIBURTON
	06:00 - 07:00	1.00	CMT	1	CIRCULATE WELL, RIG UP HALLIBURTON, HOLD SAFETY MEETING.
	07:00 - 08:00	1.00	CMT	2	PUMP BALANCED PLUG WITH HES. PUMPED 35 BBL TUNED SPACER MIXED @ 11.0 PPG. PUMP 230 SKS ( 47.1 BBL) G CEMENT MIXED @ 15.8 PPG, 1.15 FT3/SK YIELD, 4.96 GPS WATER. PUMP 2 BBL TUNED SPACER. DISPLACE WITH 63.5 BBL DRILLING MUD @ 9.3 PPG.
	08:00 - 08:30	0.50	TRP	2	PULL 6 STANDS TO 5215'
	08:30 - 11:00	2.50	CIRC	1	CIRCULATE AND BUILD VOLUME. LOST APX 250 BBL MUD LIFTING 15.8 CEMENT TO SURFACE. CIRCULATED APX 15 BBL CEMENT TO RESERVE

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## Operations Summary Report

Well Name: SSU 2G-3-8-21  
 Location: 3- 8-S 21-E 26  
 Rig Name: AZTEC

Spud Date: 7/8/2010  
 Rig Release: 10/3/2010  
 Rig Number: 781

Date	From - To	Hours	Code	Sub Code	Description of Operations
8/12/2010	08:30 - 11:00	2.50	CIRC	1	PIT.
	11:00 - 11:30	0.50	CMT	1	CIRCULATE WELL. HAVE SAFETY MEETING, RIG UP HES
	11:30 - 12:30	1.00	CMT	2	PUMP STAGE #2 OF BALANCED PLUG WITH HES. PUMP 35 BBL TUNED SPACER @ 11.0 PPG. PUMP 67 BBL (380 SKS) PREMIUM G CEMENT MIXED @ 17 PPG. 0.99 FT3/SK YIELD, 3.76 GPS WATER, ADDITIVES ARE 0.15% HR-5, 0.3% CFR-3. PUMP 5.5 BBL TUNED SPACER @ 11.0 PPG. DISPLACE WITH 43.5 BBL DRILLING MUD @ 9.1+ PPG. CALCULATED DISPLACEMENT WAS 53.5 BBL. ESTIMATED THAT WE LEFT 5 BBL IN STRING AFTER BALANCING. ESTIMATED TOC @ 4360'
	12:30 - 14:00	1.50	TRP	2	PULL 23 STANDS TO 3769' @ 30 FPM.
	14:00 - 17:30	3.50	CIRC	1	CIRCULATE AND CONDITION MUD TO 9.3 MW, 35 FV, 8.0 PH. CIRCULATED APX 5BBL SPACER TO RESERVE PIT.
	17:30 - 19:30	2.00	TRP	2	TRIP OUT TO LAY DOWN 2 3/8" TUBING.
	19:30 - 00:00	4.50	TRP	5	LAY DOWN 2 3/8" TUBING, TIGHT JOINTS, OPERATE PIPE AND BLIND RAMS
	00:00 - 02:00	2.00	TRP	1	MAKE UP BHA FOR DRESSING CEMENT AND TRIP IN TO 510'
	02:00 - 06:00	4.00	WOT	1	WAIT ON CEMENT, CHANGED DRILLING LINE
	06:00 - 10:00	4.00	WOT	1	WAIT ON CEMENT, CHANGE DRILLING LINE SPOOL, SLIP AND CUT DRILLING LINE.
8/13/2010	10:00 - 10:30	0.50	TRP	2	TRIP OUT TO LAY DOWN NM FLEX PIPE
	10:30 - 11:30	1.00	TRP	1	LAY DOWN 3 JOINTS NM FLEX PIPE. PICK UP 1 - NMDC
	11:30 - 14:30	3.00	TRP	2	TRIP IN TO DRESS CEMENT PLUG. TAG STRINGER @ 4238'
	14:30 - 02:30	12.00	DRL	5	WASH IN FROM 4238' TO 4260' - STRINGERS. DRILL CEMENT FROM 4260' TO 4308' . SOLID CEMENT @ 4308', ABLE TO SET 30K WOB WITH PUMPS ON. PLUG DESIGN CEMENT TOP WAS CALCULATED @ 4300'. DRILLING CEMENT FROM 4308' TO 4920' WITH 5K-10K WOB, 60 RPM, 350 GPM.
	02:30 - 03:30	1.00	CIRC	1	CIRCULATE BOTTOMS UP, MIX AND PUMP PILL
8/14/2010	03:30 - 06:00	2.50	TRP	2	TRIP OUT FOR DIRECTIONAL TOOLS
	06:00 - 08:00	2.00	TRP	2	TRIP OUT TO PICK UP BUILD ASSEMBLY
	08:00 - 09:00	1.00	TRP	1	LAY DOWN BIT AND BIT SUB, PICK UP 6 3/4" HUNTING 7/8 5.0 STAGE 0.29 RPG 2.38DEG FIXED BEND MOTOR 6.25' BTB. MAKE UP BIT #8, SCRIBE UP TO NATIVE MUD PULSE MWD - GAMMA @ 38' BACK - SURVEY @ 49' BACK.
	09:00 - 09:30	0.50	RIG	1	RIG SERVICE
	09:30 - 15:00	5.50	TRP	2	TRIP IN HOLE. PULSE TEST MWD @ 751'. FILL PIPE & BREAK CIRCULATION @ 2198'. TAKE SURVEYS @ 64' INTERVALS BEGINNING @ 4403. INCLINATION MATCHES MS SURVEY WITHIN 0.2 DEG AZIMUTH READINGS ON MWD TOOL ARE AVERAGING 10 DEGREES LEFT OF MS TOOL
	15:00 - 16:30	1.50	WOT	2	CONFER WITH DOUG AND MIKE ON HOW TO PROCEED - IT WAS DECIDED TO PROCEED WITH KICKING OFF PLUG AND PROCEED WITH BUILD. GYRO WILL BE DROPPED ON NEXT BIT TRIP. CIRCULATE AND RECIPRICATE.
	16:30 - 22:00	5.50			DRILL CEMENT FROM 4920' TO 4960' - CONFIRM THAT MWD SURVEYS FROM LAST BUILD RUN MATCH CURRENT MWD SURVEYS. BEGIN SLIDING @ 95R GTF TO KICK OFF PLUG @ 4960' 5-10 K WOB. SAMPLE @ 5000' WAS 60% SHALE 40% CEMENT. SAMPLE @ 5015' WAS 60% SHALE 40% CEMENT. BEGIN TIME DRILLING @ 5 MIN/INCH @ 5018' ORIENTED UP.to 5020', 5020-5025' @ 3'/HR. 70% SHALE AT 5020'
	22:00 - 01:30	3.50	DRL	2	BEGIN TIME DRILLING @ 5 MIN/INCH FROM 5018' TO 5020' ORIENTED UP, 5020-5025' @ 3'/HR. 70% SHALE AT 5020'
	01:30 - 02:00	0.50	RIG	2	WORK ON LIGHT PLANTS, #1 HAD FUEL ISSUES, #2 HAD OIL ISSUES
	02:00 - 06:00	4.00	DRL	2	TIME DRILL @ 3'HR FROM 5025' TO 5035' SAMPLE @ 5027' IS 90% SHALE
8/15/2010	06:00 - 08:00	2.00	DRL	2	DIRECTIONAL DRILLING, SLIDE FROM 5035' TO 5041', 10R GTF. 20K WOB, 375 GPM, 50 PSI MOTOR DIFFERENTIAL. - OFF OF PLUG BY PENETRATION RATE AND SAMPLES @ 5035'
	08:00 - 09:00	1.00	RIG	1	PULL 120' OFF BOTTOM, CIRCULATE WITH #1 PUMP, REPAIR #2 PUMP.

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## Operations Summary Report

Well Name: SSU 2G-3-8-21  
 Location: 3- 8-S 21-E 26  
 Rig Name: AZTEC

Spud Date: 7/8/2010  
 Rig Release: 10/3/2010  
 Rig Number: 781

Date	From - To	Hours	Code	Sub Code	Description of Operations
8/15/2010	08:00 - 09:00	1.00	RIG	1	DEBRIS UNDER SUCTION VALVE AND PLUGGED SUCTION LINE. SERVICE RIG
	09:00 - 20:30	11.50	DRL	2	DIRECTIONAL DRILLING, SLIDE FROM 5041' TO 5054' @ 10R GTF, 20K WOB. SLIDE FROM 5054' TO 5085' @ 40R GTF, 30K WOB, 375 GPM, 150 PSI MOTOR DIFFERENTIAL. SLIDE FROM 5085' TO 5148 @ 10R GTF, 36 - 38K WOB, 375 GPM, 150 PSI MOTOR DIFFERENTIAL. SLIDE FROM 5148' TO 5229 40R GTF, 40 - 45K WOB, 375 GPM, 150 PSI MOTOR DIFFERENTIAL, 188' AT 16.3'/HR, 9.3 MUD WT, 32 VIS, 9.6 PH
	20:30 - 22:00	1.50	RIG	2	TRIP OUT 3 STANDS TO 5058', REPAIR TOP DRIVE GRABBERS, TRIP IN, A FEW TIGHT SPOTS COMING OUT
	22:00 - 04:30	6.50	DRL	2	DIRECTIONAL DRILLING, SLIDE FROM 5229' TO 5245' @40R GTF, 5245' TO 5355 @ 5R GTF, 40-50K WOB, 119 BIT RPM, 105 STROKES BOTH PUMPS, 411 GPM, 1900 PSI OFF BOTTOM, 150 PSI DIFFERENTIAL, 9.4 MUD WT, 35 VIS, 9.2 PH, 1126' AT 19.4'/HR
	04:30 - 06:00	1.50	SUR	1	SURVEYS
8/16/2010	06:00 - 14:30	8.50	DRL	2	DIRECTIONAL DRILL FROM 5355' TO 5492' @ 16.1 FPH. SLIDE FROM 5355' TO 5399' @ 10L TO UP GTF. SLIDE FROM 5399' TO 5492' @ 20 TO 25L GTF. 60K WOB, 375GPM, 150 TO 200 MOTOR DIFF PRESSURE, 9.3 MW 40 FV.
	14:30 - 15:00	0.50	RIG	1	RIG SERVICE, SERVICE TOP DRIVE
	15:00 - 16:30	1.50	DRL	2	DIRECTIONAL DRILL FROM 5492' TO 5535' @ 28 FPH. ALL SLIDE @ 10L GTF. 65K WOB, 375 GPM, 150 TO 200 PSI DIFFERENTIAL 9.3 MW 40 FV.
	16:30 - 18:00	1.50	SUR	1	SURVEYS
	18:00 - 05:30	11.50	DRL	3	DIRECTIONAL DRILL FROM 5535' TO 5665' @ 11.3 FPH. ALL SLIDES @ 10-20L GTF. 65K WOB, 375 GPM, 150 TO 200 PSI DIFFERENTIAL 9.3 MW 37 FV. ROTATED FROM 5595'-5600', 5646'-5652' W/8 ROTARY RPM, 108 MOTOR RPM, 28K WOB
8/17/2010	05:30 - 06:00	0.50	SUR	1	SURVEYS
	06:00 - 07:30	1.50	DRL	2	DIRECTIONAL DRILL FROM 5665' TO 5682' @ 11.3 FPH. SLIDE 12' ROTATE 5'.
	07:30 - 08:00	0.50	CIRC	1	CIRCULATE BOTTOMS UP.
	08:00 - 11:30	3.50	TRP	14	SHORT TRIP 14 STANDS TO 4806'. BACK REAMED 11 STANDS TO 4995' OVER PULL WAS 60K WITH PUMPS OFF 20K WITH PUMPS ON. TIGHT SPOT @ 5500'. TROUBLE GETTING THROUGH SIDE TRACK SPOT FROM 5035 - 5058' ON TRIP BACK IN. ACTS LIKE CEMENT HAS BROKEN APART IN THIS AREA.
	11:30 - 12:30	1.00	CIRC	1	CIRCULATE HIGH VIS SWEEP AROUND. QUANTITY AND TYPE OF CUTTINGS COMING OVER SHAKER WAS INSIGNIFICANT.
	12:30 - 16:00	3.50	TRP	10	TRIP OUT FOR BIT. SYNC UP AND DROP SCIENTIFIC GYRO. OVERPULL IS STILL 60K WITH PUMPS OFF, 20K WITH PUMPS ON MOTOR IS ORIENTED HIGH SIDE. PUMP OUT 9 STANDS TO 5089. TRIP 3 STANDS IN TO RE-PROGRAM SCIENTIFIC TOOL TO LOW ANGLE SETTING, STRING COMPLETELY FREE FROM THIS POINT ON.
	16:00 - 16:30	0.50	CIRC	1	MIX AND PUMP SLUG @ 4837'
	16:30 - 20:30	4.00	TRP	2	TRIP OUT FOR BIT. GYRO SURVEY @ 30' INTERVALS FROM 5590' TO 4500'. SURVEY @ 60' INTERVALS FROM 4500' TO SURFACE
	20:30 - 22:30	2.00	TRP	2	LAY DOWN GYRO, OPERATE PIPE AND BLIND RAMS, PJSM, CHANGE BIT AND MOTORS, CHECK MWD, ORIENT TOOLS
	22:30 - 23:30	1.00	TRP	1	TRIP IN TO 740'
	23:30 - 00:00	0.50	RIG	1	RIG SERVICE
	00:00 - 00:30	0.50	SUR	1	TEST MWD
	00:30 - 03:30	3.00	TRP	2	TRIP IN, FILL PIPE AT 3000'
8/18/2010	03:30 - 06:00	2.50	REAM	1	REAM SIDE TRACK FROM 5035' TO
	06:00 - 07:00	1.00	REAM	1	REAM FROM 5125' TO 5148'. DETERMINED TO BE IN OLD HOLE BASED ON SURVEY. SIDE TRACK FOR CURRENT CURVE IS AT 5035'.

## Operations Summary Report

Well Name: SSU 2G-3-8-21  
 Location: 3-8-S 21-E 26  
 Rig Name: AZTEC

Spud Date: 7/8/2010  
 Rig Release: 10/3/2010  
 Rig Number: 781

Date	From - To	Hours	Code	Sub Code	Description of Operations
8/18/2010	07:00 - 13:00	6.00	REAM	1	TRIP OUT TO 4800'. ORIENT TOOLFACE TO HIGH SIDE, WASH DOWN INTO NEW HOLE. TAG UP @ 5130, SURVEY DETERMINED WE ARE IN THE NEW SIDE TRACK. WASH AND REAM THROUGH BRIDGE. RUN STANDS IN HOLE WHEN POSSIBLE, TAG UP @ 5471. HOLE PACKED OFF WHEN CIRCULATION WAS ATTEMPTED. WORK STRING FREE, ESTABLISH CIRCULATION
	13:00 - 14:30	1.50	CIRC	1	PUMP WIEGHTED HIGH VIS SWEEP AROUND. SWEEP BROUGHT BACK LARGE QUANTITY OF ROUNDED SHALE - 1/4" TO 1/2" DIAMETER
	14:30 - 15:30	1.00	REAM	1	WASH TO BOTTOM. PUMP SECOND HIGH VIS WEIGHTED (10.6 PPG) SWEEP
	15:30 - 03:00	11.50	DRL	2	DIRECTIONAL DRILL FROM 5682' TO 5779' @ 8.4 FPH. ALL SLIDES @ 10-20L GTF. 65K WOB, 375 GPM, 50 TO 100 PSI DIFFERENTIAL 9.7 MW 39 FV WHEN ROTATING, ROTARY RPM, 108 MOTOR RPM, 15- 28K WOB
	03:00 - 03:30	0.50	RIG	1	RIG SERVICE
	03:30 - 05:30	2.00			DIRECTIONAL DRILL FROM 5779' TO 5800' @ 10.5 FPH. ALL SLIDES @ 10-20L GTF. 65K WOB, 375 GPM, 50 to 100 PSI DIFFERENTIAL 9.6+ MW 39 FV WHEN ROTATING, ROTARY RPM 8, 108 MOTOR RPM, 15- 28K WOB
8/19/2010	05:30 - 06:00	0.50	SUR	1	SURVEYS
	06:00 - 07:30	1.50	DRL	2	DIRECTIONAL DRILL FROM 5800' TO 5816' @ 10.6 FPH. SLIDE 11' @ 40L GTF 65K WOB, 375GPM, 9.7MW, 43 FV. ROTATE 5' - 30K WOB, 8 RPM.
	07:30 - 09:00	1.50	DRL	2	REPLACE SWAB AND LINER ON #2 PUMP
	09:00 - 18:00	9.00			DIRECTIONAL DRILL FROM 5816' TO 5882' @ 7.4 FPH. SLIDE 6' @ 170L GTF, 65K WOB, 375 GPM, 9.7MW, 45 FV. ROTATE 60' - 20K WOB, 8 RPM. PUMPED HIGH VIS WEIGHTED SWEEP IN THIS INTERVAL. BEGAN MIXING SULFATROL IN THIS INTERVAL - 5 PPB TARGET CONCENTRATION.
	18:00 - 21:00	3.00			DIRECTIONAL DRILL FROM 5882' TO 5905' @ 7.6 FPH. SLIDE 4' @ 20-30L GTF, 65K WOB, 375 GPM, 9.7MW, 45 FV. ROTATE 19' - 20K WOB, 8 RPM.
	21:00 - 21:30	0.50	RIG	1	RIG SERVICE
8/20/2010	21:30 - 05:00	7.50			DIRECTIONAL DRILL FROM 5905' TO 5935' @ 4 FPH. 60-70K WOB SLIDING, 15-23K ROTATING, 375GPM, 9.7MW, 44 FV.
	05:00 - 06:00	1.00	SUR	1	SURVEYS
	06:00 - 07:30	1.50	DRL	1	ROTARY DRILL "SQUAT" OUT OF STRING FROM 5932' TO 5935' 35K WOB, 10 RPM.
	07:30 - 09:30	2.00	CIRC	1	MIX AND PUMP HIGH VIS WEIGHTED SWEEP. CIRCULATE AROUND - VERY FEW CUTTINGS BACK WITH SWEEP
	09:30 - 10:30	1.00	TRP	10	TRIP 18 STANDS TO 4806'. NO TIGHT HOLE
	10:30 - 11:00	0.50	CIRC	1	MIX AND PUMP DRY PILL
	11:00 - 14:00	3.00	TRP	10	TRIP OUT FOR BIT
	14:00 - 14:30	0.50	TRP	1	LAY DOWN PULSE MWD TOOL, DRAIN & VISUAL INSPECT MOTOR - OK, BREAK OUT BIT.
	14:30 - 15:30	1.00	RIG	1	RIG SERVICE, CHANGE OIL IN DRAWWORKS MOTOR
	15:30 - 17:00	1.50	OTH		ADJUST TOP DRIVE TRACK
	17:00 - 18:30	1.50	TRP	2	MAKE UP BIT, ORIENT TOOLS, CHANGE OUT KEYSTOCK ON UBHO SLEEVE
	18:30 - 22:00	3.50	TRP	2	TRIP IN TO 4803', TEST MWD AT 740', FILL PIPE AT 3050', 4803'
8/21/2010	22:00 - 01:30	3.50	REAM	1	ORIENT TOOL FACE TO 30R AND SLIDE INTO NEW HOLE. SLID FROM 4803' TO 4990' WITH NO PUMP. REAM(SLID UNTIL SURVEYS CONFIRMED WE WERE IN NEW HOLE) FROM 4990' TO 5935'. RAN IN 4 STANDS FROM 5300' TO 5540'.
	01:30 - 06:00	4.50	DRL	2	DIRECTIONAL DRILL FROM 5935' TO 5958', 23' @ 5 FPH. 60-70K WOB SLIDING, 375GPM, 1750 PSI OFF BOTTOM, 95 STROKES BOTH PUMPS, 20-75 PSI DIFFERENTIAL, 9.7MW, 44 FV.
	06:00 - 08:00	2.00	DRL	2	DIRECTIONAL DRILL FROM 5958' TO 5962', @ 4 FPH. 60-70K WOB SLIDING, 375GPM, 1750 PSI OFF BOTTOM, 95 STROKES BOTH PUMPS, 20-75 PSI DIFFERENTIAL, 9.7MW, 44 FV.
	08:00 - 08:30	0.50	CIRC	1	CIRCULATE FOR SAMPLES, 100% SHALE

**CONFIDENTIAL**

Operations Summary Report

Well Name: SSU 2G-3-8-21  
 Location: 3-8-S 21-E 26  
 Rig Name: AZTEC

Spud Date: 7/8/2010  
 Rig Release: 10/3/2010  
 Rig Number: 781

Date	From - To	Hours	Code	Sub Code	Description of Operations
8/21/2010	08:30 - 15:30	7.00	DRL	1	DIRECTIONAL DRILL FROM 5962' TO 5995', 33' @ 4.7 FPH.60-80K WOB SLIDING, 375GPM, 1750 PSI OFF BOTTOM, 95 STROKES BOTH PUMPS, 20-75 PSI DIFFERENTIAL, 9.7MW, 44 FV.
	15:30 - 16:00	0.50	CIRC	1	CIRCULATE FOR SAMPLES, 100% SHALE
	16:00 - 16:30	0.50	DRL	2	DIRECTIONAL DRILL FROM 5995' TO 6000', 5' @ 10 FPH.60-80K WOB SLIDING, 375GPM, 1750 PSI OFF BOTTOM, 95 STROKES BOTH PUMPS, 20-75 PSI DIFFERENTIAL, 9.7MW, 44 FV.
	16:30 - 17:00	0.50	RIG	1	SERVICE RIG, TOP-DRIVE
	17:00 - 18:00	1.00	SUR	1	SURVEYS
	18:00 - 02:30	8.50	DRL	2	DIRECTIONAL DRILL FROM 6000' TO 6048', 48' @ 5.6 FPH.60-80K WOB SLIDING, 375GPM, 1750 PSI OFF BOTTOM, 95 STROKES BOTH PUMPS, 20-75 PSI DIFFERENTIAL, 9.7MW, 43 FV.
	02:30 - 03:00	0.50	CIRC	5	CIRCULATE FOR SAMPLES, 70% LIMESTONE, 30% SHALE
	03:00 - 05:00	2.00	DRL	2	DIRECTIONAL DRILL FROM 6048' TO 6100', 52' @ 26 FPH.60-80K WOB SLIDING, 23K ROTATING, 375GPM, 1750 PSI OFF BOTTOM, 95 STROKES BOTH PUMPS, 20-75 PSI DIFFERENTIAL, 9.7MW, 43 FV.
	05:00 - 06:00	1.00	SUR	1	SURVEYS
	8/22/2010	06:00 - 10:00	4.00	DRL	2
10:00 - 11:00		1.00	CIRC	1	PUMP AROUND 10.7, 80 VIS SWEEP. 9400 STROKES LIGHT PART OF SWEEP, 10,200 STROKES HEAVY PART OF SWEEP. AVERAGE AMOUNT OF CUTTINGS.
11:00 - 11:30		0.50	TRP	2	TRIP OUT TO 6007', TIGHT SPOT AT 6125', TRIP IN
11:30 - 13:00		1.50	CIRC	1	PUMP 10.7, 80 VIS SWEEP AROUND.
13:00 - 14:30		1.50	TRP	14	SHORT TRIP OUT TO 4775', HIT TIGHT SPOT AT 5035', TRIP BACK IN, TAG TIGHT SPOT AT 5035'
14:30 - 15:00		0.50	REAM	1	TRY TO WORK INTO NEW HOLE WITH NO PUMP OR ORIENTATION, NO GO. ORIENT TO 30R, TRY WITH NO PUMP, NO GO. USE PUMPS AND WASH INTO NEW HOLE TO 5092'
15:00 - 16:00		1.00	TRP	14	TRIP IN, TAG AT 5965', HOLE STICKY
16:00 - 17:00		1.00	REAM	1	REAM FROM 5965' TO 6137'
17:00 - 18:30		1.50	CIRC	1	PUMP 10.7, 80 VIS SWEEP AROUND. NORMAL CUTTINGS WHEN SWEEP CAME AROUND, 3 MINUTES LATER GOT AN INCREASE IN CUTTINGS FOR A FEW MINUTES.
18:30 - 21:00		2.50	TRP	2	TRIP OUT, TIGHT FROM 5600'- 5315'
21:00 - 21:30		0.50	OTH		MIX & PUMP SLUG
21:30 - 00:30		3.00	TRP	15	TRIP OUT OF HOLE
00:30 - 02:00		1.50	TRP	1	L/D & P/U M.MTR.
02:00 - 03:00		1.00	DRL	3	ORIENT & SCRIBE MWD
03:00 - 04:30		1.50	TRP	15	TRIP IN HOLE TO SHOE
04:30 - 05:30	1.00	RIG	1	SERVICE RIG, TOP-DRIVE	
05:30 - 06:00	0.50	TRP	15	TRIP IN HOLE, FILL PIPE & TEST MWD.	
8/23/2010	06:00 - 08:00	2.00	TRP	2	TRIP IN TO 3400'
	08:00 - 11:00	3.00	RIG	2	FILL PIPE, WORK ON ROTARY TORQUE LIMITER ON TOP DRIVE, SET DOWN TO 3300 PSI FROM 4200 PSI.
	11:00 - 11:30	0.50	TRP	2	TRIP IN TO 4812'
	11:30 - 17:00	5.50	REAM	1	ORIENT AND WORK BIT FROM 4812' TO 5035', TRYING TO GET INTO NEW HOLE, SLIPPED INTO OLD HOLE TO 5076'
	17:00 - 17:30	0.50	TRP	2	TRIP OUT TO 4700'
	17:30 - 22:30	5.00	REAM	1	ORIENT AND WORK PIPE FROM 4700' TO 5151 NO SUCCESS IN GETTING INTO NEW HOLE
	22:30 - 01:30	3.00	CIRC	1	CIRC. & WAIT ON L/D CREW

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## Operations Summary Report

Well Name: SSU 2G-3-8-21  
 Location: 3-8-S 21-E 26  
 Rig Name: AZTEC

Spud Date: 7/8/2010  
 Rig Release: 10/3/2010  
 Rig Number: 781

Date	From - To	Hours	Code	Sub Code	Description of Operations
8/23/2010	01:30 - 02:30	1.00	CSG	1	PJSM; R/U, L/D CREW
	02:30 - 06:00	3.50	TRP	3	L.D.D.P.
8/24/2010	06:00 - 09:00	3.00	TRP	3	LAY DOWN PIPE AND DIRECTIONAL TOOLS, OPERATE PIPE AND BLIND RAMS
	09:00 - 09:30	0.50	OTH		PULL WEAR BUSHING
	09:30 - 11:00	1.50	CSG	1	PJSM, RIG UP WEATHERFORD CASERS
	11:00 - 18:00	7.00	CSG	2	RUN 7" CASING, TAG AT 4990', RAN 108 JOINTS, 7", 26#, FS80, LAND SHOE AT 5053', FLOAT AT 5002'
	18:00 - 00:30	6.50	REAM	1	TRY TO ENTER SIDE TRACK W/ CASING FROM 4990' TO 5055 & TRY TO GET INTO SIDE TRACK, NO SUCCESS SET CASING @ 5053'
	00:30 - 01:30	1.00	CSG	1	R/D CASING CREW
	01:30 - 02:30	1.00	CMT	1	P.J.S.M. & R/U HALLIBURTON
	02:30 - 05:30	3.00	CMT	2	CEMENT 7" CASING WITH 425 SACKS, YIELD 3.19 CU/FT PER SACK, 11#, LEAD AND 205 SACKS, YIELD 1.40 CU/FT PER SACK, 13.5# TAIL CEMENT. GOOD RETURNS. 15 BBLS CEMENT TO SURFACE. RETURNS GRADUALLY TAPERED OFF THE LAST 20 BBLS OF DISPLACEMENT TO JUST A SMALL STREAM OF CEMENT.
	05:30 - 06:00	0.50	CMT	1	RD CEMENTERS
	8/25/2010	06:00 - 09:30	3.50	BOP	1
8/25/2010	09:30 - 11:00	1.50	CSG	7	NIPPLE DOWN BOP
	11:00 - 12:00	1.00	OTH		SET SLIPS WITH 135 K
	12:00 - 13:30	1.50	OTH		WAIT ON AIR CUTTER FOR CASING
	13:30 - 14:00	0.50	RIG	1	CUT CASING WITH AIR CUTTER
	14:00 - 17:30	3.50	BOP	1	RIG SERVICE
	17:30 - 22:00	4.50	BOP	2	NIPPLE UP BOP, CHANGE PIPE RAMS TO 3.5"
	22:00 - 22:30	0.50	OTH		TEST BOP, TEST UPPER & LOWER VALVES ON TOP-DRIVE, 250 PSI LOW, 3000PSI HIGH, TEST PIPE RAMS, HCR, KILL LINE, CHOKE, BLIND RAMS, CHOKE LINES, 250 PSI LOW, 3000 PSI HIGH, 5 MIN. LOW 10 MIN. HIGH, TEST HYDRIL 250 PSI LOW, 1500 PSI HIGH, SURFACE CASING 1500 PSI F/ 30 MIN.
	22:30 - 23:30	1.00	OTH		INSTALL WEAR BUSHING
	23:30 - 00:30	1.00	TRP	1	LAY OUT & STRAP B.H.A.
	00:30 - 03:00	2.50	TRP	1	P.J.S.M; R/U LAY DOWN TRUCK
8/26/2010	03:00 - 06:00	3.00	TRP	2	P/U BHA, TRIP IN HOLE & FILL PIPE
	06:00 - 07:30	1.50	CIRC	1	STRAP, P/U 3.5" D.P. & TRIP IN HOLE
	07:30 - 08:30	1.00			CIRCULATE AND CONDITION HOLE AT 4910', DID NOT SEE CEMENT COMING BACK, DID SEE THE 20 BBL WATER SPACER OF DISPLACEMENT.
	08:30 - 11:00	2.50	TRP	2	CIRC. & CUT DRLG. LINE
	11:00 - 14:00	3.00	LOG	4	TRIP OUT, OPERATE PIPE AND BLIND RAMS
	14:00 - 15:00	1.00	TRP	1	PJSM. R/U WIRE LINE, RIH W/ COLLAR LOCATOR & BRIDGE PLUG, SET BRIDGE PLUG @ 5671' USING WIRELINE NUMBERS.
	15:00 - 17:30	2.50	TRP	2	PICK UP WHIPSTOCK AND MILLING ASSEMBLY AND ORIENT
	17:30 - 18:30	1.00	LOG	4	TRIP IN HOLE TO 4654'
	18:30 - 19:00	0.50	DRL	7	HELD SAFETY MEETING, RIG UP WIRELINE TRUCK AND GYRO TOOL AND RUN IN THE HOLE WITH SAME & WORK & SEAT GYRO
	19:00 - 20:00	1.00	LOG	4	ORIENT AND SET WHIPSTOCK @ 333.04. AZI., TOP OF WHIP @ 4646.5, BOTTOM OF WHIP @ 4654'
20:00 - 00:30	4.50	DRL	7	POOH W/ WIRE LINE, RIG DOWN WIRELINE TRUCK & GYRO TOOL MILL WINDOW FROM 4646' TO 4648' = 'ROP .4 FT/HR, GPM. 190 WOB. 2 K, RPM 82	

## Operations Summary Report

Well Name: SSU 2G-3-8-21  
 Location: 3-8-S 21-E 26  
 Rig Name: AZTEC

Spud Date: 7/8/2010  
 Rig Release: 10/3/2010  
 Rig Number: 781

Date	From - To	Hours	Code	Sub Code	Description of Operations
8/26/2010	00:30 - 01:00	0.50	RIG	1	SERVICE RIG, TOP-DRIVE
	01:00 - 06:00	5.00	DRL	7	MILL WINDOW FROM 4648' TO 4653' = 'ROP 1.0 FT/HR, GPM. 190 WOB. 2-4 K, RPM 82
8/27/2010	06:00 - 08:30	2.50	DRL	7	MILL WINDOW FROM 4653' TO 4654'
	08:30 - 09:00	0.50	CIRC	1	CIRCULATE AND PUMP TRIP SLUG
	09:00 - 11:00	2.00	TRP	2	TRIP OUT OF THE HOLE
	11:00 - 11:30	0.50	TRP	1	CHANGE OUT WINDOW MILL AND FOLLOW MILL. WINDOW MILL 1/16" OUT OF GUAGE AND STARTING TO CORE, FOLLOW MILL HAD WEAR DAMAGE ON THE TOOL JOINT POSSIBLY FROM TOP OF WINDOW, CARBIDE WAS STILL GOOD
	11:30 - 12:00	0.50	RIG	1	RIG SERVICE
	12:00 - 14:30	2.50	TRP	2	TRIP IN THE HOLE WITH #2 MILLING ASSEMBLY
	14:30 - 15:00	0.50	OTH		TAG UP @ 4651 (5' DOWN THE FACE OF WHIP) POLISH WHIP STOCK FACE / WINDOW
	15:00 - 15:30	0.50	OTH		CHANGE OUT ROTATING HEAD RUBBER
	15:30 - 02:00	10.50	DRL	7	MILL WINDOW FROM 4654' TO 4658
	02:00 - 02:30	0.50	DRL	7	WORK 21' OF SIDETRACK & WHIPSTOCK
8/28/2010	02:30 - 03:00	0.50	CIRC	1	PUMP & CIRC. HIGH VIS SWEEP
	03:00 - 06:00	3.00	TRP	2	PUMP SLUG & TRIP OUT TO P/U DIR. TOOLS & GYRO
	06:00 - 07:00	1.00	TRP	1	LAY DOWN MILLING ASSEMBLY AND INSPECT DAMAGE
	07:00 - 08:00	1.00	OTH		TOP OF DAMAGE WAS 35' ABOVE WINDOW MILL
	08:00 - 09:00	1.00	TRP	1	INSTALL, WEAR BUSHING
	09:00 - 09:30	0.50	RIG	1	PICK UP HUNTING MOTOR, (.28 RATIO, 7/8 LOBE, 2.6 STAGE, BEND TO A 2.12)
	09:30 - 12:30	3.00	TRP	2	AND ORIENT TO GYRO UBHO SUB
	12:30 - 14:00	1.50	LOG	4	RIG SERVICE
	14:00 - 14:30	0.50	DRL	2	TRIP IN THE HOLE TO 4658'
	14:30 - 15:00	0.50	EQT	2	RIG UP WIRELINE TRUCK, GYRO TOOL, SIDE ENTRY PUMP IN SUB
	15:00 - 17:00	2.00	DRL	2	DIRECTIONAL DRILL WITH GYRO FROM 4658 TO 4664
	17:00 - 18:00	1.00	SUR	1	FIT TO 10.3 EMW, OMW - 9.7, TVD - 4664, SURFACE PSI - 150, DID NOT BLEAD OFF
	18:00 - 21:30	3.50	DRL	2	DIRECTIONAL DRILL WITH GYRO, SLIDE F/ 4664 TO 4682' = 18' ROP 9 FT/HR. GPM 252, WOB 22K
	21:30 - 22:30	1.00	SUR	1	GYRO SURVEY
	22:30 - 01:30	3.00	DRL	2	DIRECTIONAL DRILL WITH GYRO, SLIDE F/ 4682' TO 4712' = 30' ROP 8.5 FT/HR. GPM 252, WOB 22K
	8/29/2010	01:30 - 02:30	1.00	SUR	1
02:30 - 04:30		2.00	DRL	2	DIRECTIONAL DRILL WITH GYRO, SLIDE F/ 4712' TO 4744' = 32' ROP 10.6 FT/HR. GPM 264, WOB 22K
04:30 - 05:30		1.00	SUR	1	GYRO SURVEY
05:30 - 06:00		0.50	DRL	2	DIRECTIONAL DRILL WITH GYRO, ROT. F/ 4744' TO 4771' = 27' ROP 13.5 FT/HR. GPM 264, WOB 22K
06:00 - 06:30		0.50	OTH		GYRO SURVEY
06:30 - 08:30		2.00	DRL	2	DIRECTIONAL DRILL WITH GYRO, ROT. F/ 4771' TO 4785' = 14' ROP 28 FT/HR. GPM 264, WOB 22K
08:30 - 09:00		0.50	CIRC	1	POOH WITH GYRO TOOL, RIG DOWN WIRELINE TRUCK AND GYRO TOOL
09:00 - 11:30		2.50	TRP	2	DRILL FROM 4785' TO 4803' 18' ROP - 9'/HR WOB - 22 GPM - 265
11:30 - 12:00		0.50	OTH		MOTOR RPM - 69 ROTARY - 35
12:00 - 13:00		1.00	TRP	1	CIRCULATE AND PUMP TRIP SLUG
					TRIP OUT TO PICK UP DIRECTIONAL TOOLS
					CHANGE OUT WEAR BUSHING
					PICK UP DIRECTIONAL TOOLS AND SCRIBE

## Operations Summary Report

Well Name: SSU 2G-3-8-21  
 Location: 3- 8-S 21-E 26  
 Rig Name: AZTEC

Spud Date: 7/8/2010  
 Rig Release: 10/3/2010  
 Rig Number: 781

Date	From - To	Hours	Code	Sub Code	Description of Operations
8/29/2010	13:00 - 13:30	0.50	RIG	1	RIG SERVICE
	13:30 - 16:30	3.00	TRP	2	TRIP IN THE HOLE, SURFACE TEST MWD
	16:30 - 05:00	12.50	DRL	2	DIRECTIONAL DRILL FROM 4803' TO 4960 = 157' ROP 12.5 FT/HR. WOB 20/28K GPM 300
8/30/2010	05:00 - 06:00	1.00	SUR	1	SURVEYS
	06:00 - 15:30	9.50	DRL	2	DIRECTIONAL DRILL FROM 4960' TO 5090' = 130' ROP, 13.6 FT/HR. GPM. 300, WOB 20/25 K
8/31/2010	15:30 - 16:00	0.50	RIG	1	SERVICE RIG, TOP-DRIVE
	16:00 - 17:00	1.00	DRL	2	DIRECTIONAL DRILL FROM 5090' TO 5107' = 17' ROP, 17 FT/HR. GPM 300, WOB 20/25 K
	17:00 - 18:00	1.00	SUR	1	SURVEYS
	18:00 - 22:00	4.00	DRL	2	DIRECTIONAL DRILL FROM 5107' TO 5136' = 29' ROP, 7.25 FT/HR. GPM - 300, WOB 20/25
	22:00 - 22:30	0.50	CIRC	1	CIRC.
	22:30 - 02:00	3.50	TRP	2	PUMP SLUG, TOOH TO P/U NON STABIZED M.MTR.
	02:00 - 03:00	1.00	TRP	1	X/O M/MTRS.
	03:00 - 04:00	1.00	DRL	3	ORIENT & SCRIBE MWD
	04:00 - 06:00	2.00	TRP	2	TRIP IN HOLE, TEST M.MTR & FILL PIPE
	06:00 - 07:00	1.00	TRP	2	TRIP IN THE HOLE
9/1/2010	07:00 - 17:30	10.50	DRL	2	DIRECTIONAL DRILL F/ 5136 TO 5242 106' ROP 10 FT/HR. WOB 20-25K, GPM 300
	17:30 - 18:00	0.50	SUR	1	SURVEYS
	18:00 - 05:30	11.50	DRL	2	DIRECTIONAL DRILL F/ 5242 TO 5340 98' ROP 8.5 FT/HR. WOB 20-25K GPM 300
	05:30 - 06:00	0.50	SUR	1	SURVEYS
	06:00 - 13:00	7.00	DRL	2	DIRECTIONAL DRILL FROM 5340' TO 5417' 77' ROP 11 FT/HR. WOB 22/30 K, GPM 300
9/2/2010	13:00 - 13:30	0.50	RIG	1	SERVICE RIG, TOP-DRIVE
	13:30 - 17:00	3.50	DRL	2	DIRECTIONAL DRILL FROM 5417' TO 5452' 35' ROP 10 FT/HR. WOB 22/30 K, GPM 300
	17:00 - 18:00	1.00	SUR	1	SURVEYS
	18:00 - 05:30	11.50	DRL	2	DIRECTIONAL DRILL FROM 5452' TO 5570' 118' ROP 10.2 FT/HR. WOB 22/30 K, GPM 300
9/3/2010	05:30 - 06:00	0.50	SUR	1	SURVEYS
	06:00 - 13:00	7.00	DRL	2	DIRECTIONAL DRILL FROM 5570' TO 5631' 61' ROP 8.7 FT/HR. WOB 22/28 GPM 300
	13:00 - 13:30	0.50	RIG	1	SERVICE RIG, TOP-DRIVE
	13:30 - 15:30	2.00	DRL	2	DIRECTIONAL DRILL FROM 5631' TO 5648' 17' ROP 8.5 FT/HR. WOB 22/28 GPM 300
	15:30 - 16:00	0.50	SUR	1	SURVEYS
	16:00 - 17:30	1.50	OTH		TROUBLE SHOOT GAMMA
9/3/2010	17:30 - 05:00	11.50	DRL	2	DIRECTIONAL DRILL FROM 5648' TO 5765' 117' ROP 10.1 FT/HR. WOB 22/28K GPM 300
	05:00 - 06:00	1.00	SUR	1	SURVEYS
	06:00 - 08:30	2.50	DRL	2	DIRECTIONAL DRILL FROM 5765' TO 5768' 3' ROP 1.2 FT/HR WOB 22/28K GPM 300
	08:30 - 09:30	1.00	CIRC	1	CIRCULATE OUT VIS SWEEP AND PUMP TRIP SLUG
	09:30 - 13:00	3.50	TRP	10	TRIP OUT OF THE HOLE, MOVE 10 STDS FOR PUSH PIPE (637.72') MOVED BOTTOM OF HWDP TO 10°
	13:00 - 14:30	1.50	TRP	1	CHANGE OUT BIT AND MOTOR, INSPECT UBHO AND MWD, BEND MOTOR TO 1.83, SCRIBE AND ORIENT DIRRECTIONAL TOOLS
	14:30 - 18:30	4.00	TRP	2	TRIP IN THE HOLE, TEST MWD
	18:30 - 01:30	7.00	DRL	2	DIRECTIONAL DRILL FROM 5768' TO 5822' 54' ROP 7 FT/HR.

## Operations Summary Report

Well Name: SSU 2G-3-8-21  
 Location: 3- 8-S 21-E 26  
 Rig Name: AZTEC

Spud Date: 7/8/2010  
 Rig Release: 10/3/2010  
 Rig Number: 781

Date	From - To	Hours	Code	Sub Code	Description of Operations
9/3/2010	01:30 - 02:00	0.50	RIG	1	SERVICE RIG, TOP-DRIVE
	02:00 - 05:00	3.00	DRL	2	DIRECTIONAL DRILL FROM 5822' TO 5880' 58' ROP 19.3 FT/HR. WOB 17/25 GPM 300
9/4/2010	05:00 - 06:00	1.00	SUR	1	SURVEYS
	06:00 - 15:30	9.50	DRL	2	DIRECTIONAL DRILL FROM 5880' TO 5947' 67' ROP - 7'/HR WOB - 23/27 GPM - 300
	15:30 - 16:00	0.50	CIRC	1	CIRCULATE AND PUMP TRIP SLUG
	16:00 - 19:00	3.00	TRP	13	TRIP OUT OF THE HOLE
	19:00 - 20:00	1.00	TRP	1	CHANGE OUT BIT AND MOTOR, INSPECT UBHO AND MWD,
	20:00 - 20:30	0.50	DRL	3	SCRIBE AND ORIENT DIRECTIONAL TOOLS
	20:30 - 21:00	0.50	RIG	1	SERVICE RIG, TOP-DRIVE
	21:00 - 00:00	3.00	TRP	2	TRIP IN THE HOLE, TEST MWD & FILL PIPE
9/5/2010	00:00 - 05:00	5.00	DRL	2	DIRECTIONAL DRILL FROM 5947' TO 6000' 53' ROP 10.6'/HR WOB 17/25 GPM 300
	05:00 - 06:00	1.00	SUR	1	SURVEYS
	06:00 - 14:30	8.50	DRL	2	DIRECTIONAL DRILL FROM 6000' TO 6141' 141' ROP 16.5' HR. WOB 17/25 GPM 300
	14:30 - 15:00	0.50	RIG	1	SERVICE RIG, TOP-DRIVE
	15:00 - 17:00	2.00	DRL	2	DIRECTIONAL DRILL FROM 6141' TO 6198' 57' ROP 28.5' HR. WOB 23 GPM 300
	17:00 - 18:00	1.00	SUR	1	SURVEYS
9/6/2010	18:00 - 05:00	11.00	DRL	2	DIRECTIONAL DRILL FROM 6198' TO 6450' 252' ROP 22.9' HR. WOB 22/25 GPM 300
	05:00 - 06:00	1.00	SUR	1	SURVEYS
	06:00 - 12:00	6.00	DRL	2	DIRECTIONAL DRILL FROM 6450' TO 6584' 134' ROP - 22.3'/HR WOB - 25 GPM - 300
	12:00 - 13:00	1.00	TRP	14	SHORT TRIP TO 6015', NO TIGHT HOLE
	13:00 - 13:30	0.50	RIG	1	RIG SERVICE
	13:30 - 17:00	3.50	DRL	2	DIRECTIONAL DRILL FROM 6584' TO 6678' 94' ROP 26.8' HR. WOB - 25 GPM 300
9/7/2010	17:00 - 18:00	1.00	SUR	1	SURVEYS
	18:00 - 05:00	11.00	DRL	2	DIRECTIONAL DRILL FROM 6678' TO 6960' 282' ROP 25.6' HR WOB 25 GPM 300
	05:00 - 06:00	1.00	SUR	1	SURVEYS
	06:00 - 10:00	4.00	DRL	2	DIRECTIONAL DRILL FROM 6960' TO 7031' 71' ROP - 17.75'/HR WOB - 25 GPM - 300
	10:00 - 11:00	1.00	CIRC	1	PUMP AND CIRC OUT VIS SWEEP, PUMP TRIP SLUG
	11:00 - 13:00	2.00	TRP	2	TRIP OUT OF THE HOLE TO SHUFFEL PUSH PIPE, MADE IT OUT TO 2358. DRILLER CROWNED OUT.
	13:00 - 23:00	10.00	RIG	2	TAKE PICTURES OF AND INSPECT DAMAGE, WAIT ON AZTEC PERSONAL FROM FARMINGTON NM. TO INSPECT DAMAGE. AZTEC DRLG. SUPERINTENDENTS & SAFETY PERSONAL ARRIVED & DONE FULL BODY INSPECTION ON CROWN CLUSTER, BLOCKS, HANG LINE & TORQUE TUBE. A FOLLOW UP INSPECTION WILL FOLLOW THIS A.M. AFTER TRIPPING OUT OF HOLE
	23:00 - 00:00	1.00	RIG	6	CUT DRILLING LINE
9/8/2010	00:00 - 02:30	2.50	TRP	2	TRIP OUT OF HOLE, FUNCTION PIPE & BLIND RAMS
	02:30 - 03:30	1.00	TRP	1	CHANGE OUT BIT AND MOTOR, INSPECT UBHO AND MWD, M.MTR. BEND SET @ 1.5°
	03:30 - 04:00	0.50	DRL	3	SCRIBE, ORIENT DIRECTIONAL TOOLS & SET BACK IN DERRICK
	04:00 - 06:00	2.00	RIG	2	WAIT ON DAYLIGHTS TO INSPECT CROWN DAMAGE.
	06:00 - 10:00	4.00	RIG	2	WORK ON TOP DRIVE TRACK, RE-ADJUST HANGING LINE AND DOUBLE CHECK BOLTS, TURNBUCKLES AND T-BAR., RE-INSPECT CROWN DAMAGE.

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## Operations Summary Report

Well Name: SSU 2G-3-8-21  
 Location: 3-8-S 21-E 26  
 Rig Name: AZTEC

Spud Date: 7/8/2010  
 Rig Release: 10/3/2010  
 Rig Number: 781

Date	From - To	Hours	Code	Sub Code	Description of Operations
9/8/2010	10:00 - 11:00	1.00	TRP	2	PICK UP MWD TOOL AND TRIP IN THE HOLE TO 1250', TEST MWD WORK ON DAPTECH CROWN PROTECRTION DEVICE. CHANGE OUT ENCODER TRIP IN THE HOLE, BREAK CIRCULATION AT THE WINDOW DIRECTIONAL DRILL FROM 7031' TO 7251' 220' ROP 20.9'HR WOB 22/25 GPM 300  SERVICE RIG, TOP-DRIVE DIRECTIONAL DRILL FROM 7251' TO 7335' 84' ROP 28'HR WOB 22/25 GPM 300 SURVEYS DIRECTIONAL DRILL FROM 7335' TO 7536' @ 22.3 fph. 25/27 WOB, 40 RPM, 265 GPM SHORT TRIP 9 STANDS TO 6960'. NO TIGHT HOLE RIG SERVICE DIRECTIONAL DRILL FROM 7536' TO 7545' @ 18 FPH. SLIDE FROM 7540' TO 7545' 30R TF. 24 WOB, 40 RPM, 265 GPM SURVEYS DIRECTIONAL DRILL FROM 7545' TO 7823' @ 18 FPH. 24-27 WOB, 40 RPM, 265 GPM SURVEYS DIRECTIONAL DRILL FROM 7823' TO 8043' @ 22 FPH. 22/25 WOB, 265 GPM, 40 RPM. SLIDE 2' IN 0.5HR. BEGIN MIXING BIO-LUBE IN THIS INTERVAL SHORT TRIP 9 STANDS FROM 8043' TO 7467'. NO TIGHT HOLE RIG SERVICE SURVEYS DIRECTIONAL DRILL FROM 8043' TO 8346' @ 30.3 FPH. 22/25 WOB, 265 GPM, 40 RPM. SLIDE 12' IN 1.5 HRS SURVEYS DIRECTIONAL DRILL FROM 8346' TO 8422' @ 17FPH. 25K WOB, 265 GPM, 40 RPM. SLIDE 6' @ 150L TF. RIG SERVICE, SERVICE CAMP GENERATOR DIRECTIONAL DRILL FROM 8422' TO 8485' @ 21 FPH. 27K WOB, 265GPM, 40 RPM. ALL ROTATE. TRIP 10 STANDS CIRCULATE, PUMP DRY JOB TRIP OUT TO SWAP PUSH PIPE, CHANGE MOTOR, CHANGE BIT, PICK UP AGITATOR. OPERATE PIPE AND BLIND RAMS, CHANGE BITS, MOTORS, CHECK BATTERIES AND CHANGE POPPET ON MWD. ORIENT TOOLS TRIP IN, MOVED 1208' PUSH PIPE BELOW HWDP, INSERT BAFFLE PLATE TOP OF NON MAG FLEX COLLAR, TEST MWD AT 4975', BROKE CIRCULATION AT 3000', 4975', 7051', INSERT AGITATOR AND SHOCK TOOL 1447' FROM MWD. SAFETY REAM 45' TO BOTTOM DIRECTIONAL DRILL FROM 8485' TO 8568' @ 21 FPH. 27K WOB, 265GPM, 40 RPM. SLIDE FROM 8485'-8488' SURVEYS DIRECTIONAL DRILL FROM 8568' TO 8727' @ 16 FPH. 25-27K WOB, 265GPM, 40 RPM. RIG SERVICE DIRECTIONAL DRILL FROM 8727' TO 8765' @ 26 FPH. 25-27K WOB, 265GPM, 40 RPM.
	11:00 - 12:00	1.00	RIG	2	
	12:00 - 15:00	3.00	TRP	2	
	15:00 - 01:30	10.50	DRL	2	
	01:30 - 02:00	0.50	RIG	1	
9/9/2010	02:00 - 05:00	3.00	DRL	2	
	05:00 - 06:00	1.00	SUR	1	
	06:00 - 15:00	9.00	DRL	2	
	15:00 - 16:00	1.00	TRP	14	
	16:00 - 16:30	0.50	RIG	1	
9/10/2010	16:30 - 17:00	0.50	DRL	2	
	17:00 - 18:00	1.00	SUR	1	
	18:00 - 04:30	10.50	DRL	2	
	04:30 - 06:00	1.50	SUR	1	
	06:00 - 16:00	10.00	DRL	2	
9/11/2010	16:00 - 17:00	1.00	TRP	14	
	17:00 - 17:30	0.50	RIG	1	
	17:30 - 18:00	0.50	SUR	1	
	18:00 - 04:00	10.00	DRL	2	
	04:00 - 06:00	2.00	SUR	1	
	06:00 - 10:30	4.50	DRL	2	
	10:30 - 11:00	0.50	RIG	1	
	11:00 - 14:00	3.00	DRL	2	
	14:00 - 14:30	0.50	TRP	2	
	14:30 - 15:00	0.50	CIRC	1	
15:00 - 19:00	4.00	TRP	2		
9/12/2010	19:00 - 20:30	1.50	TRP	2	
	20:30 - 01:30	5.00	TRP	2	
	01:30 - 02:00	0.50	REAM	1	
	02:00 - 05:30	3.50	DRL	2	
	05:30 - 06:00	0.50	SUR	1	
9/12/2010	06:00 - 16:00	10.00	DRL	2	
	16:00 - 16:30	0.50	RIG	1	
	16:30 - 17:00	0.50	DRL	2	

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## Operations Summary Report

Well Name: SSU 2G-3-8-21  
 Location: 3-8-S 21-E 26  
 Rig Name: AZTEC

Spud Date: 7/8/2010  
 Rig Release: 10/3/2010  
 Rig Number: 781

Date	From - To	Hours	Code	Sub Code	Description of Operations
9/12/2010	17:00 - 18:00	1.00	SUR	1	SURVEYS
	18:00 - 03:00	9.00	DRL	2	DIRECTIONAL DRILL FROM 8765' TO 8983' @ 24 FPH. 25-27K WOB, 265GPM, 40 RPM.
	03:00 - 04:00	1.00	TRP	14	SHORT TRIP 9 STANDS TO 8412', 50-65K UP DRAG, 30-50K DOWN, HOLE GOOD
	04:00 - 05:00	1.00	DRL	2	DIRECTIONAL DRILL FROM 8983' TO 9026' @ 43 FPH. 25-27K WOB, 265GPM, 40 RPM.
9/13/2010	05:00 - 06:00	1.00	SUR	1	SURVEYS
	06:00 - 12:30	6.50	DRL	2	DIRECTIONAL DRILL FROM 9026' TO 9210' @ 28.3 FPH. ALL ROTATE. 25-27K WOB, 40 RPM, 265 GPM. PHYSICALLY VERIFY STIM SLEEVE SIZES, AND BALL PASS THROUGH SIZES WITH HES.
	12:30 - 13:00	0.50	RIG	1	RIG SERVICE.
	13:00 - 14:30	1.50	SUR	1	SURVEYS
	14:30 - 18:00	3.50	DRL	2	DIRECTIONAL DRILL FROM 9210' TO 9325' @ 32 FPH. SLIDE 5', 27K WOB, 40 RPM, 265 GPM.
	18:00 - 19:00	1.00	CIRC	1	CIRCULATE UP SAMPLES
	19:00 - 19:30	0.50	TRP	14	SHORT TRIP OUT TO 8475', 50-65K DRAG
	19:30 - 21:00	1.50	REAM	1	REAM SLIDES FROM 8475' TO 8891', TRIP IN 3 STANDS, TAG AT 9140'. REAM FROM 9140' TO 9325'. REAM SLIDES FROM 9250' TO 9255'.
	21:00 - 22:30	1.50	CIRC	1	CIRCULATE UP SWEEP, PUMP 68 BBLs, 3#/BBL LUBRA BEAD SWEEP, SPOT FROM 9325' TO 6545'
	22:30 - 00:30	2.00	TRP	2	TRIP OUT TO 6100', WET, SLM.
9/14/2010	00:30 - 01:00	0.50	CIRC	1	MIX AND PUMP PILL
	01:00 - 05:00	4.00	TRP	2	TRIP OUT, SLM, LAY DOWN AGITATOR, SHOCK TOOL,
	05:00 - 06:00	1.00	TRP	1	LAY DOWN DIRECTIONAL TOOLS. FUNCTION PIPE RAMS AND BLIND RAMS.
	06:00 - 08:00	2.00	TRP	1	PICK UP REAMING ASSY. (ECCENTRIC PDC REAMERS & 6" IB STABILIZERS)
	08:00 - 08:30	0.50	TRP	2	TRIP 10 STDS PUSH PIPE IN HOLE
	08:30 - 09:00	0.50	OTH		MOVE STANDS IN DERRICK
	09:00 - 09:30	0.50	RIG	1	RIG SERVICE.
	09:30 - 16:00	6.50	TRP	2	TRIP IN HOLE. PICK UP 32 - 4 3/4" DRILL COLLARS. WORK REAMING ASSY THROUGH WINDOW @ 4646'. TRIP IN TO 5150'
	16:00 - 04:00	12.00	REAM	1	TAG UP @ 5150'. REAM FROM 5150 TO 6848'. 0 TO 5K WOB. 2500 TO 5000 PSI TOP DRIVE TORQUE. 55 RPM, 240 GPM
	04:00 - 05:00	1.00	CIRC	1	CIRCULATE, SPOT 3#/BBL BEAD PILL FROM 6848' TO 5850'. DROP 2" RABBIT.
9/15/2010	05:00 - 06:00	1.00	TRP	2	TRIP OUT TO RUN LINER. SLM
	06:00 - 11:30	5.50	TRP	2	TRIP OUT TO SHUFFLE DRILL PIPE. SLM 1' DIFFERENCE, PULL RABBIT.
	11:30 - 12:00	0.50	OTH		CHANGE ROTATING HEAD RUBBER
	12:00 - 17:00	5.00	TRP	2	VISUALLY INSPECT REAMING ASSEMBLY. TRIP IN HOLE. MOVE 40 STANDS PUSH PIPE UNDER SWDP.
9/15/2010	17:00 - 01:00	8.00	REAM	1	TAG UP @ 6848'. REAM FROM 6848' TO 9325', TORQUEY FROM 8550'-8750'
	01:00 - 02:30	1.50			CIRC UP SWEEP, SPOT 68 BBL, 3#/BBL LUBRA BEAD SWEEP FROM 9325'-6545', PUMP PILL
9/16/2010	02:30 - 06:00	3.50	TRP	2	TRIP OUT TO RUN LINER, DROP RABBIT, SLM
	06:00 - 10:30	4.50	TRP	2	TRIP OUT TO RUN LINER.
	10:30 - 12:00	1.50	OTH		BREAK AND LAY DOWN ISENHOUR REAMER ASSEMBLY
	12:00 - 14:00	2.00	OTH		PJSM W/ WEATHERFORD CASERS AND HALCO, RIG UP PICKUP MACHINE
	14:00 - 19:30	5.50	CSG	4	RUN LINER AS FOLLOWS: RAN 98 JOINTS OF 4.5", 11.6#, L-80 LINER. DELTA STIM SLEEVES SET AT 9112', 8717', 8420, 8133', 7784, 7480, 7179', 6846', 6584', 6239', SWELL PACKERS AT 9251', 8868', 8564', 8274', 8015', 7666', 7365', 7062', 6584', 6412'. LAND SHOE AT 9315, FLOAT COLLAR AT 9313'.
	19:30 - 20:00	0.50	CSG	1	RIG DOWN PICKUP MACHINE
20:00 - 00:30	4.50	TRP	2	TRIP IN WITH 4.5" LINER AT 45'/MIN, LAND AT 9315'	

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## Operations Summary Report

Well Name: SSU 2G-3-8-21  
 Location: 3- 8-S 21-E 26  
 Rig Name: AZTEC

Spud Date: 7/8/2010  
 Rig Release: 10/3/2010  
 Rig Number: 781

Date	From - To	Hours	Code	Sub Code	Description of Operations
9/16/2010	00:30 - 02:30	2.00	CIRC	1	BREAK CIRC WITH BRINE, PUMP 84 BBLS DIESEL, DISPLACE WITH 101 BBLS 9# BRINE
	02:30 - 03:00	0.50	OTH		DROP BALL TO SHEAR HANGER
	03:00 - 03:30	0.50	OTH		RELEASE LINER AND SET PACKER
	03:30 - 04:00	0.50	OTH		TEST LINER TOP PACKER F/ 15 MINS AT 1500 PSI
	04:00 - 04:30	0.50	CIRC	1	DISPLACE REMAINDER OF HOLE WITH BRINE
	04:30 - 05:30	1.00	OTH		FLOW CHECK WELL - OK
9/17/2010	05:30 - 06:00	0.50	TRP	2	TRIP OUT, LAY DOWN 32 DRILL DRILL COLLARS
	06:00 - 12:00	6.00	TRP	2	TRIP OUT OF HOLE, LAY DOWN 32 DRILL COLLARS, LAY DOWN SMITH LINER HANGING TOOL
9/18/2010	12:00 - 06:00	18.00	RIG	2	REPLACE TOP DRIVE HYDRAULIC MOTOR. REMOVE BLOWN DRAW WORKS ENGINE. WAIT ON DRAW WORKS TRANSMISSION. TRANSMISSION ARRIVES 0130 HRS.
	06:00 - 00:30	18.50	RIG	2	WAIT ON FLEX PLATE FOR TRANSMISSION, FLEX PLATE ARRIVED @ 12:00. ASSEMBLE NEW #2 ENGINE AND TRANSMISSION FOR DRAW WORKS. CLEAN SAND TRAP AND SHALE TANK. INSTALL ENGINE AND TRANSMISSION.
9/19/2010	00:30 - 02:30	2.00	DEQ	1	RIG UP CASED HOLE SOLUTIONS WIRELINE TRUCK AND RUN 6" GAUGE TOOL AND COLLAR LOCATOR, THEN RUN RETRIEVABLE BRIDGE PLUG AND SET AT 4435'
	02:30 - 04:30	2.00	DRL	3	MAKE UP WHIPSTOCK AND MILLING TOOLS AND ORIENT.
	04:30 - 06:00	1.50	TRP	2	TRIP IN WITH KOT WHIPSTOCK ASSY. STRAP IN
9/20/2010	06:00 - 08:00	2.00	TRP	1	TRIP IN HOLE WITH KOT 3DEG WHIPSTOCK. TAG UP UP RBP @ 4425' WITH 15K WOB. (WIRELINE MEASUREMENT HAD WHIP SET @ 4435').
	08:00 - 11:00	3.00	SUR	1	RIH WITH SCIENTIFIC GYRO ON CASED HOLE SOLUTIONS WIRE LINE. STING INTO UBHO, PULL OUT AND STING IN 4 TIMES TO VERIFY TOOLFACE. SET TOOLFACE @ .111 AZZ. WORK OUT TORQUE. SET DOWN 18K AND SHEAR OFF WHIPSTOCK. TF AFTER SHEAR WAS 114. SET DOWN 45K TO SHEAR BRASS BOLT IN WHIP. WHIP DID NOT SHEAR A SECOND TIME. TOP OF WINDOW WILL BE 4407.6' MD BOTTOM WILL BE 4415.4.
	11:00 - 11:30	0.50	RIG	1	REPAIR ROTATING HEAD GASKET
	11:30 - 05:30	18.00	DRL	7	MILL WINDOW FROM 4407.6' TO 4420'
	05:30 - 06:00	0.50	RIG	6	PULL TO 4353' AND CUT DRILL LINE 120'
	06:00 - 07:30	1.50	RIG	6	SLIP & CUT 120' DRILLING LINE
	07:30 - 08:00	0.50	TRP	2	TRIP OUT WITH MILLS
	08:00 - 10:00	2.00	RIG	2	WORK ON TOP DRIVE HYDRAULIC PUMP.
	10:00 - 12:00	2.00	TRP	2	TRIP OUT WITH MILLS
	12:00 - 13:30	1.50	TRP	1	LAY DOWN KOT MILLING ASSY. PICK UP 4 3/4" ENSECO MM 7/8 3.1 0.31 RPG 5.4' BTB SLICK. RESET TO 1.83 DEGREES. SCRIBE UP TO SCIENTIFIC UBHO, MAKE UP BIT. PICK UP 2 - NM FLEX COLLARS.
9/20/2010	13:30 - 16:00	2.50	TRP	2	TRIP IN HOLE TO 2295', FILL PIPE & BREAK CIRC. TRIP IN HOLE TO 4392'.
	16:00 - 17:30	1.50	SUR	1	RIG UP CASED HOLE SOLUTIONS WIRELINE AND PUMP THROUGH SUB. RIG UP SCIENTIFIC GYRO. TAG BOTTOM @ 4420', TOOK 5K GOING THROUGH BOTTOM OF WINDOW @ 4415.
	17:30 - 19:30	2.00	DRL	3	ORIENT TOOLS TO 114 AZ
	19:30 - 21:00	1.50	DRL	2	DIRECTIONAL DRILL FROM 4420' TO 4427', 15-18K WOB, 72 MOTOR RPM, 1700 PSI AT 97 STROKES, #1 PUMP, 235 GPM, MUD WT 8.9, VIS 38
	21:00 - 22:30	1.50	SUR	1	GYRO CONNECTION
	22:30 - 01:00	2.50	DRL	2	DIRECTIONAL DRILL FROM 4427' TO 4451', 15-18K WOB, 72 MOTOR RPM, 1700 PSI AT 97 STROKES, #1 PUMP, 235 GPM, MUD WT 8.9, VIS 38
	01:00 - 02:00	1.00	SUR	1	GYRO CONNECTION
	02:00 - 02:30	0.50	DRL	2	DIRECTIONAL DRILL ROTATE FROM 4451' TO 4456'

## Operations Summary Report

Well Name: SSU 2G-3-8-21  
 Location: 3-8-S 21-E 26  
 Rig Name: AZTEC

Spud Date: 7/8/2010  
 Rig Release: 10/3/2010  
 Rig Number: 781

Date	From - To	Hours	Code	Sub Code	Description of Operations
9/20/2010	02:30 - 03:30	1.00	SUR	1	GYRO CONNECTION
	03:30 - 05:00	1.50	DRL	2	DIRECTIONAL DRILL FROM 4456' TO 4469' - ALL SLIDE @ 114 TF. 15-18K, 72 MOTOR RPM, 1700 PSI 235 GPM, 8.9 MW 38 FV.
9/21/2010	05:00 - 06:00	1.00	SUR	1	GYRO CONNECTION.
	06:00 - 06:30	0.50	DRL	2	DIRECTIONAL DRILL FROM 4469' TO 4488' @ 38 FPH. ALL ROTATE. 20K WOB, 30 RPM, 242 GPM
	06:30 - 07:30	1.00	SUR	1	GYRO SURVEY
	07:30 - 09:00	1.50	DRL	2	DIRECTIONAL DRILL FROM 4488' TO 4518 @ 20 FPH. ALL ROTATE. 20K WOB, 30 RPM, 242 GPM
	09:00 - 10:00	1.00	SUR	1	RUN GYRO SURVEY
	10:00 - 10:30	0.50	CIRC	1	CIRCULATE, PUMP PILL, RIG DOWN WIRELINE.
	10:30 - 13:00	2.50	TRP	2	TRIP OUT OF HOLE TO LAY DOWN SCIENTIFIC UBHO AND PICK UP NATIVE PULSE MWD.
	13:00 - 14:30	1.50	TRP	1	DRAIN AND VISUALLY INSPECT MOTOR, CHANGE BITS, INSTALL MWD AND SCRIBE UP.
	14:30 - 17:00	2.50	TRP	2	TRIP IN HOLE, PULSE TEST MWD @ 300' - OK, PICK UP JARS.
	17:00 - 18:30	1.50	OTH		ATTEMPT TO SYNC UP MWD, TOOL PULSES OK BUT WILL NOT SYNC.
	18:30 - 19:00	0.50	CIRC	1	MIX AND PUMP PILL
	19:00 - 21:00	2.00	TRP	13	TRIP FOR MWD FAILURE
	21:00 - 21:30	0.50	RIG	1	RIG SERVICE
	21:30 - 22:00	0.50	TRP	13	TRIP TO MWD
	22:00 - 22:30	0.50	OTH		REPROGRAM MWD
	22:30 - 01:00	2.50	TRP	13	TRIP IN, SURFACE TEST MWD
01:00 - 01:30	0.50	OTH		CHANGE OUT ROTATING HEAD GASKET	
01:30 - 06:00	4.50	DRL	2	DIRECTIONAL DRILL FROM 4518' TO 4488' @ 38 FPH. 20K WOB, 30 RPM, 266 GPM	
9/22/2010	06:00 - 17:00	11.00	DRL	2	DIRECTIONAL DRILL FROM 4623' TO 4850 @ 20.6 FPH. 22K WOB, 40 RPM, 266 GPM, 2200 SPP. 9.1MW 40 FV.
	17:00 - 17:30	0.50	RIG	1	RIG SERVICE & BOP DRILL
	17:30 - 18:00	0.50	SUR	1	SURVEYS
	18:00 - 05:00	11.00	DRL	2	DIRECTIONAL DRILL FROM 4850 TO 5038 @ 17 FPH. 22-25K WOB, 40 RPM, 266 GPM, 2200 SPP. 9.0 MW 38 FV.
9/23/2010	05:00 - 06:00	1.00	SUR	1	SURVEYS
	06:00 - 13:30	7.50	DRL	2	DIRECTIONAL DRILL FROM 5038' TO 5151' 113' ROP - 15'/HR WOB - 23 GPM - 266 KOP - 5058'
	13:30 - 14:00	0.50	CIRC	1	CIRCULATE AND PUMP TRIP SLUG
	14:00 - 17:00	3.00	TRP	10	TRIP OUT OF THE HOLE TO PICK UP PDC BIT
	17:00 - 17:30	0.50	RIG	1	SERVICE RIG, TOP DRIVE
	17:30 - 18:30	1.00	TRP	1	CHANGE OUT BIT AND MOTOR, INSPECT UBHO AND MWD, FUNCTION BLIND & PIPE RAMS
	18:30 - 19:00	0.50	DRL	3	ORIENT MWD & SCRIBE
	19:00 - 22:30	3.50	TRP	2	TRIP IN HOLE, SURFACE TEST M.MTR & FILL PIPE
	22:30 - 03:00	4.50	DRL	2	DIR. DRILL F/ 5151 TO 5184 33' ROP 7.3'/HR WOB 8/15 GPM 242
	03:00 - 03:30	0.50	SUR	1	SURVEYS
9/24/2010	03:30 - 04:00	0.50	CIRC	1	CIRCULATE AND PUMP TRIP SLUG
	04:00 - 06:00	2.00	TRP	2	TRIP OUT TO BEND M. MTR. TO 1.83° & P/U INSERT BIT
	06:00 - 07:00	1.00	TRP	10	TRIP OUT OF THE HOLE TO CHANGE BIT AND MOTOR BEND
	07:00 - 07:30	0.50	TRP	1	CHANGE OUT BITS, BEND MOTOR TO 1.83
	07:30 - 08:00	0.50	TRP	1	ORIENT AND SCRIBE
	08:00 - 10:30	2.50	TRP	2	TRIP IN THE HOLE, TEST MWD @300', FILL PIPE @ 4000'
	10:30 - 11:00	0.50	REAM	1	WASH 23' TO BOTTOM

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## Operations Summary Report

Well Name: SSU 2G-3-8-21  
 Location: 3-8-S 21-E 26  
 Rig Name: AZTEC

Spud Date: 7/8/2010  
 Rig Release: 10/3/2010  
 Rig Number: 781

Date	From - To	Hours	Code	Sub Code	Description of Operations
9/24/2010	11:00 - 13:30	2.50	DRL	2	DIRECTIONAL DRILL FROM 5184' TO 5215' 31' ROP - 12.4'/HR WOB - 27 GPM - 267
	13:30 - 14:00	0.50	RIG	1	RIG SERVICE
	14:00 - 17:30	3.50	DRL	2	DIRECTIONAL DRILL FROM 5215' TO 5252 37' ROP - 10.5'/HR WOB 25 GPM - 290
	17:30 - 18:00	0.50	SUR	1	SURVEYS
	18:00 - 22:30	4.50	DRL	2	DIRECTIONAL DRILL FROM 5252' TO 5311' 59' ROP 13.1'/HR WOB 25 GPM - 290
	22:30 - 23:00	0.50	OTH		RE-LOG GAMMA F/ 5280 TO 5311
	23:00 - 05:00	6.00	DRL	2	DIRECTIONAL DRILL FROM 5311' TO 5405 94' ROP 15.6'/HR WOB 26 GPM 290
9/25/2010	05:00 - 06:00	1.00	SUR	1	SURVEYS
	06:00 - 12:30	6.50	DRL	2	DIRECTIONAL DRILLING FROM 5405' TO 5492' 87' ROP - 13.4'/HR WOB - 27 GPM - 291
	12:30 - 13:00	0.50	SUR	1	SURVEYS
	13:00 - 13:30	0.50	CIRC	1	CIRC. MIX & PUMP SLUG
	13:30 - 15:30	2.00	TRP	2	TRIP F/ BHA
	15:30 - 16:00	0.50	RIG	1	SERVICE RIG, TOP-DRIVE
	16:00 - 23:00	7.00	ISP	1	B.H.A. INSPECTION
	23:00 - 23:30	0.50	OTH		PULL WEAR BUSHING
	23:30 - 03:30	4.00	BOP	2	PJSM, TEST BOP, TEST UPPER & LOWER VALVES ON TOP-DRIVE, 250 PSI LOW, 3000PSI HIGH, TEST PIPE RAMS, HCR, KILL LINE, CHOKE, BLIND RAMS, CHOKE LINES, 250 PSI LOW, 3000 PSI HIGH, 5 MIN. LOW 10 MIN. HIGH, TEST HYDRIL 250 PSI LOW, 1500 PSI HIGH & FUNCTION TEST KOOMEY
	03:30 - 04:00	0.50	OTH		INSTALL WEAR BUSHING
9/26/2010	04:00 - 05:00	1.00	DRL	3	BEND M.MTR TO 2.12° ORIENT & SCRIBE
	05:00 - 06:00	1.00	TRP	2	TRIP IN HOLE, FILL PIPE & TEST MWD
	06:00 - 06:30	0.50	RIG	1	RIG SERVICE
	06:30 - 09:00	2.50	TRP	2	TRIP IN THE HOLE
	09:00 - 17:30	8.50	DRL	2	DIRECTIONAL DRILL FROM 5492' TO 5595 - 103' ROP 12.1'/HR WOB 25 GPM 290
	17:30 - 18:00	0.50	SUR	1	SURVEYS
	18:00 - 05:00	11.00	DRL	2	DIRECTIONAL DRILL FROM 5595' TO 5720 - 130' ROP 11.3'/HR WOB 25 GPM 290
9/27/2010	05:00 - 06:00	1.00	SUR	1	SURVEYS
	06:00 - 14:30	8.50	DRL	2	DIRECTIONAL DRILL FROM 5720' TO 5790' 50' ROP 5.8'/HR. WOB 25 GPM 290
	14:30 - 15:00	0.50	RIG	1	SERVICE RIG, TOP-DRIVE
	15:00 - 17:00	2.00	DRL	2	DIRECTIONAL DRILL FROM 5790' TO 5822' 50' ROP 32'/HR. WOB 25 GPM 290
	17:00 - 18:00	1.00	SUR	1	SURVEYS
9/28/2010	18:00 - 01:30	7.50	DRL	2	DIRECTIONAL DRILL FROM 5822' TO 5868' 46' ROP 6.1'/HR WOB 27 GPM 290
	01:30 - 02:00	0.50	SUR	1	SURVEYS
	02:00 - 02:30	0.50	CIRC	1	CIRC. MIX & PUMP SLUG
	02:30 - 06:00	3.50	TRP	10	TRIP F/ BIT & M.MTR.
	06:00 - 07:30	1.50	TRP	1	PICK UP BIT AND MOTOR, BEND MOTOR TO 1.83, ORIENT AND SCRIBE
	07:30 - 08:30	1.00	TRP	2	SURF TEST MOTOR AND MWD, TRIP IN THE HOLE TO 1400'
	08:30 - 09:00	0.50	RIG	2	WORK ON TOP DRIVE
	09:00 - 09:30	0.50	RIG	1	RIG SERVICE, INSPECT AND ADJUST BREAKS
	09:30 - 12:30	3.00	TRP	2	TRIP IN THE HOLE, MOVE 20 STDS FOR PUSH PIPE
	12:30 - 17:00	4.50	DRL	2	DIRECTIONAL DRILL FROM 5868' TO 5917' 49' ROP 10.8'/HR. WOB 25 GPM 290

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## Operations Summary Report

Well Name: SSU 2G-3-8-21

Location: 3-8-S 21-E 26

Rig Name: AZTEC

Spud Date: 7/8/2010

Rig Release: 10/3/2010

Rig Number: 781

Date	From - To	Hours	Code	Sub Code	Description of Operations
9/28/2010	17:00 - 18:00	1.00	SUR	1	SURVEYS
	18:00 - 22:00	4.00	DRL	2	DIRECTIONAL DRILL FROM 5917 TO 5958 41' ROP 10.25'/HR WOB 25 GPM 290
	22:00 - 22:30	0.50	CIRC	5	CIRC. SAMPLES
	22:30 - 04:00	5.50	DRL	2	DIRECTIONAL DRILL FROM 5958 TO 6145 187' ROP 28.8'/HR WOB 25 GPM 290
	04:00 - 05:00	1.00	SUR	1	SURVEYS
	05:00 - 05:30	0.50	OTH		TROUBLE SHOOT PUMP PSI INCREASE, GAINED 550 PSI OFF BOTTOM, SURFACE EQUIP OK
9/29/2010	05:30 - 06:00	0.50	TRP	12	TRIP OUT OF THE HOLE FOR MOTOR
	06:00 - 09:30	3.50	TRP	12	TRIP OUT OF THE HOLE FOR MUD MOTOR LAY DOWN ONE BEND JOINT DP
	09:30 - 10:30	1.00	TRP	1	CHANGE OUT BIT AND MOTOR, ORIENT AND SCRIBE, INSPECT MWD TOOL MOTOR BENT TO 1.5°
	10:30 - 11:00	0.50	RIG	1	RIG SERVICE
	11:00 - 14:30	3.50	TRP	2	TRIP IN THE HOLE, MOVE ADDTL 5 STDS FOR PUSH PIPE, SURFACE TEST MWD AND MOTOR
	14:30 - 17:30	3.00	DRL	2	DIRECTIONAL DRILL FROM 6145' TO 6246' 101' ROP 33.6'/HR. WOB 25 GPM 290
	17:30 - 18:30	1.00	SUR	1	SURVEYS
	18:30 - 05:00	10.50	DRL	2	DIRECTIONAL DRILL FROM 6246' TO 6645 399' ROP 38.0'/HR. WOB 25 GPM 290
9/30/2010	05:00 - 06:00	1.00	SUR	1	SURVEYS
	06:00 - 07:30	1.50	DRL	2	DIRECTIONAL DRILL F/6645' TO 6671' 26' ROP - 17.3'/HR GPM - 290 WOB - 25
	07:30 - 08:00	0.50	CIRC	1	CIRCULATE AND PUMP SLUG
	08:00 - 08:30	0.50	TRP	14	SHORT TRIP 9 STDS OUT TO 6108'
	08:30 - 09:00	0.50	RIG	1	RIG SERVICE, ADJUST BREAKS
	09:00 - 09:30	0.50	TRP	14	SHORT TRIP 9 STDS IN THE HOLE TO 6671', NO TIGHT HOLE
	09:30 - 17:00	7.50	DRL	2	DIRECTIONAL DRILL F/ 6671' TO 6931' 260' ROP 34.6' HR. WOB 25 GPM 290
	17:00 - 18:00	1.00	SUR	1	SURVEYS
	18:00 - 03:00	9.00	DRL	2	DIRECTIONAL DRILL F/ 6931' TO 7185' 254' ROP 28.2' HR. WOB 25 GPM 290
	03:00 - 03:30	0.50	CIRC	1	CIRCULATE AND PUMP SLUG
03:30 - 04:00	0.50	TRP	14	SHORT TRIP 9 STNDS. TO 6671	
04:00 - 05:00	1.00	DRL	2	DIRECTIONAL DRILL F/ 7185' TO 7245' 60' ROP 60' HR. WOB 25 GPM 290	
10/1/2010	05:00 - 06:00	1.00	SUR	1	SURVEYS
	06:00 - 12:00	6.00	DRL	2	DIRECTIONAL DRILL FROM 7245' TO 7472' 227' ROP - 37.8'/HR WOB - 25 GPM - 290 RPM - 120
	12:00 - 13:00	1.00	RIG	1	RIG SERVICE
	13:00 - 17:00	4.00	DRL	2	DIRECTIONAL DRILL FROM 7472' TO 7662' 190' ROP 47.5' HR. WOB 25, GPM 290, RPM 120
	17:00 - 18:00	1.00	SUR	1	SURVEYS
	18:00 - 20:30	2.50	DRL	2	DIRECTIONAL DRILL F/ 7662 TO 7722' 60' ROP 24' HR WOB 25, GPM 290, RPM 120
	20:30 - 21:00	0.50	SUR	1	SURVEYS
	21:00 - 21:30	0.50	CIRC	1	CIRC. & PUMP SLUG
	21:30 - 01:00	3.50	TRP	2	TRIP OUT OF HOLE F/ BHA.
	01:00 - 02:00	1.00	TRP	1	X/O M.MTRS
02:00 - 02:30	0.50	DRL	3	ORIENT & SCRIBE MWD	

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## Operations Summary Report

Well Name: SSU 2G-3-8-21

Location: 3-8-S 21-E 26

Rig Name: AZTEC

Spud Date: 7/8/2010

Rig Release: 10/3/2010

Rig Number: 781

Date	From - To	Hours	Code	Sub Code	Description of Operations
10/1/2010	02:30 - 05:30	3.00	TRP	2	TRIP IN THE HOLE TO SHOE, MOVE ADDTL 19 STDS FOR PUSH PIPE, P/U AGITATOR & SHOCK SUB, SURFACE TEST MWD, MOTOR, & FILL PIPE.
	05:30 - 06:00	0.50	RIG	6	CUT DRILLING LINE
10/2/2010	06:00 - 07:00	1.00	RIG	6	CUT AND SLIP DRILLING LINE
	07:00 - 08:00	1.00	RIG	1	RIG SERVICE, GREASE RIG, ADJUST BREAKS, FIX HYDROLIC LEAK ON TOP DRIVE, ADJUST DRILLING TORQUE
	08:00 - 09:30	1.50	TRP	2	TRIP IN THE HOLE, TEST MOTOR AND MWD TOOLS
	09:30 - 10:00	0.50	REAM	1	FILL PIPE AND WASH 14' TO BOTTOM
	10:00 - 17:00	7.00	DRL	2	DIRECTIONAL DRILL FROM 7722' TO 8028' 306' ROP 43.7' HR. WOB 25 GPM 278
	17:00 - 18:00	1.00	SUR	1	SURVEYS
	18:00 - 00:00	6.00	DRL	2	DIRECTIONAL DRILL FROM 8028' TO 8345' 317' ROP 52.8' HR. WOB 25 GPM 278
	00:00 - 00:30	0.50	CIRC	1	CIRC. F/ SHORT TRIP
	00:30 - 01:00	0.50	TRP	14	SHORT TRIP 12 STNDS.
	01:00 - 05:00	4.00	DRL	2	DIRECTIONAL DRILL FROM 8345' TO 8600' 255' ROP 63.7' HR. WOB 25 GPM 278
10/3/2010	05:00 - 06:00	1.00	SUR	1	SURVEYS
	06:00 - 11:30	5.50	DRL	2	DIRECTIONAL DRILL FROM 8600' TO TD @ 8905' 305' ROP - 55.4'/HR WOB - 23 GPM - 265 RPM - 173
	11:30 - 12:30	1.00	SUR	1	SURVEYS
	12:30 - 13:30	1.00	CIRC	1	PUMP VIS SWEEP AND CIRC BTMS UP
	13:30 - 14:30	1.00	TRP	14	SHORT TRIP 16 STANDS TO 7872'
	14:30 - 16:00	1.50	CIRC	1	PUMP SWEEP AND CIRCULATE BOTTOMS UP, SPOT TORQUE EASE SWEEP IN BOTTOM 1500' OF LATERAL
	16:00 - 21:30	5.50	TRP	2	TRIP OUT OF THE HOLE FOR LINER (SLM)
	21:30 - 22:30	1.00	TRP	1	L/D DIR. TOOLS
	22:30 - 23:00	0.50	CSG	1	PJSM. R/U CASING EQUIPMENT
	23:00 - 01:00	2.00	CSG	2	RUN 99 JOINTS OF 4.5", 11.6#, P-110 (PERFED), N-80 (BLANK) LINER,
	01:00 - 01:30	0.50	CSG	1	RIG DOWN CASING EQUIPMENT
	01:30 - 02:00	0.50	TRP	2	TRIP IN THE HOLE WITH LINER. SHOE @ 8901, TOP OF LINER SET @ 4420' - TOP OF PERFORATED PIPE SET @ 5972' - TOP OF WINDOW @ 4407' - BOTTOM OF WINDOW @ 4415' ENTERED PAY ZONE @ 5904'. HOLE TD IS 8905'.
	02:00 - 02:30	0.50	RIG	1	SERVICE RIG, TOP-DRIVE
	02:30 - 05:00	2.50	TRP	3	BACK OUT OF LINER WITH SMITH MODEL D SETTING TOOL. PULLED 132,000 UP AND SLACKED OFF TO 55,000 PRIOR TO BACKING OUT. PICK UP AFTER BACKING OUT WAS 102,000 AND SLACK OFF WAS 70,000.
10/4/2010	05:00 - 06:00	1.00	TRP	3	PJSM, WITH WEATHERFORD LAY DOWN CREW. TRIP OUT OF HOLE, LDDP LAY DOWN DRILL PIPE AND HWDP
	06:00 - 09:00	3.00	TRP	3	TRIP IN THE HOLE WITH REMAINDER OF DP FROM DERRICK
	09:00 - 11:30	2.50	TRP	2	LAY DOWN DRILL PIPE
	11:30 - 14:00	2.50	TRP	3	RIG DOWN LAY DOWN TRUCK
	14:00 - 15:00	1.00	CSG	1	PJSM, RIG UP CASED HOLE SOLUTIONS WIRELINE TRUCK, RIH WITH RBP, SET AT 3990', SHEAR BOLT DID NOT SHEAR, PULL OUT OF ROPE SOCKET AND LEFT SETTING TOOL, QUICK CHANGE (3 1/8 OD) CCL (3 1/8 OD) AND CABLE HEAD (1' LONG, 1 11/16" OD) IN THE HOLE. POOH AND RIG DOWN WIRELINE TRUCK. TOP OF FISH 3978'
	15:00 - 16:30	1.50	LOG	4	NIPPLE DOWN B.O.P.E.
	16:30 - 19:00	2.50	BOP	1	CLEAN MUD TANKS
	19:00 - 21:00	2.00	LOC	7	RIG RELEASED @ 21:00 HRS
	21:00 - 06:00	9.00	LOC	7	R.D.R.T. & PREP F/ TRUCKS

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Operations Summary Report - COMPLETION

Well Name: SSU 2G-3-8-21  
 Location: 3-8-S 21-E 26  
 Rig Name: MARTINEZ WELL SERVICE

Spud Date: 7/8/2010  
 Rig Release:  
 Rig Number: 1

Date	From - To	Hours	Code	Sub Code	Description of Operations	
10/7/2010	07:30 - 09:00	1.50	LOC	3	10/07/10: ROAD RIG 47-MILES TO LOCATION.	
	09:00 - 10:30	1.50	LOC	4	SPOT EQUIPMENT. MIRU.	
	10:30 - 13:30	3.00	WHD	1	ASSIST CAMERON WELLHEAD IN NU TBG HEAD. PRESSURE TESTED VOIDS TO 4500# PSI. HELD GOOD.	
	13:30 - 14:30	1.00	BOP	1	NU BOP'S.	
	14:30 - 15:30	1.00	OTH		RU TBG EQUIPMENT AND RIG FLOOR. LAY PUMP AND RETURN LINES. SWIFN.	
10/8/2010	15:30 - 17:00	1.50	TRAV	1	TRAVEL TO TOWN.	
	05:30 - 07:00	1.50	TRAV	1	10/8/10: TRAVEL TO LOCATION.	
	07:00 - 07:45	0.75	TRP	1	CHECK PRESSURE: SICP=0 M.U. OVERSHOT AND 3' EXTENSION DRESSED WITH 3 1/8" GRAPPLE, X-OVER, 3 3/4" BUMPER SUB, 3 3/4" BOWEN JARS, X-OVER AND 8' X 2 7/8" N-80 SUB AS BHA.	
	07:45 - 11:00	3.25	TRP	5	RIH WITH BHA AND 128-JT'S OF 2 7/8" J-55 TBG. ( TALLY AND RABBIT AS RUN )	
	11:00 - 12:15	1.25	CIRC	1	WITH EOT @ 3966' ROLLED HOLE WITH 145- BBLs OF 2% KCL TO CIRCULATE OUT DRILLING MUD.	
	12:15 - 12:30	0.25	FISH	5	WASHED OVER AND LATCHED ONTO FISH TOP @ 3978'	
	12:30 - 13:45	1.25	FISH	3	START JARRING ON FISH. SETTING JARS OFF @ 15k OVER STRING WT WORKING UP TO 45K OVER STRING WT. SHEARED OFF W.L. SET RBP @ 3990' AFTER 4 HITS WITH JARS @ 45K OVER STRING WT.	
	13:45 - 15:00	1.25	TRP	2	POOH WITH 128-JT'S TBG, BHA AND FISH ( SETTIG TOOL )	
	15:00 - 15:30	0.50	TRP	1	LD BHA AND FISH.	
	15:30 - 18:00	2.50	LOG	2	RU CASED HOLE SOLUTIONS AND RUN CBL FROM 3984' UP TO SURFACE WITH 0-PRESSURE ON WELL. ESTIMATE CEMENT TOP @ 2800' RDWL. AND SWI FOR WEEKEND.	
10/11/2010	18:00 - 19:30	1.50	TRAV	1	TRAVEL TO TOWN.	
	05:30 - 07:00	1.50	TRAV	1	10/11/10: TRAVEL TO LOCATION.	
	07:00 - 08:15	1.25	TRP	2	SICP=0. RIH WITH R.H. AND 129-JT,S 2 7/8" TBG.	
	08:15 - 08:45	0.50	DEQ	1	RU PUMP AND CIRC EQUIPMENT. WITH HOLE FULL, CIRC ONTO RBP SET @ 3990". CIRC CLEAN. RELEASED PLUG WITH 0-PRESSURE CHANGE.	
	08:45 - 10:00	1.25	TRP	2	POOH WITH 129- JT'S TBG, RH AND BP. LAY DOWN RBP.	
	10:00 - 10:45	0.75	OTH		CHANGE PIPE RAMS AND TBG EQUIPMENT FROM 2 7/8" OVER TO 2 3/8"	
	10:45 - 12:00	1.25	TRP	5	TALLY, RABBIT AND RIH WITH 48-JT'S 2 3/8" HYDRIL TBG. EOT @ 1454'	
	12:00 - 12:30	0.50	LUN	1	LUNCH	
	12:30 - 14:15	1.75			CONTINUE TO TALLY, RABBIT AND RIH WITH AN ADDITIONAL 100-JT'S 2 3/8" HYDRIL TBG. ( 148-TOTAL JT'S = 4488' )	
	14:15 - 14:45	0.50	OTH		CHANGE PIPE RAMS AND TBG EQUIPMENT FROM 2 3/8" OVER FOR 2 7/8" TBG.	
10/12/2010	14:45 - 15:45	1.00	TRP	2	CONTINUED RIH WITH 80-JT'S 2 7/8" TBG. EOT@ 6967'	
	15:45 - 17:00	1.25	CIRC	1	RU PUMP AND REVERSE CIRCULATE OUT DRILLING MUD WITH 45-BBLs 2% KCL AND LOST CIRCULATION. PUMPED ADDITIONAL 20-BBLs WITH NO CIRCULATION. PUMPED 35-BBLs DOWN TBG TO CLEAR. SWIFN.	
	17:00 - 18:30	1.50	TRAV	1	TRAVEL TO TOWN.	
	05:30 - 07:00	1.50	TRAV	1	10/12/10: TRAVEL TO LOCATION.	
	07:00 - 07:30	0.50	WCL	2	CHECK PRESSURE: SICP= 125# PSI SITP= 250# PSI. BLOW WELL DOWN TO 0-PRESSURE. RECOVERED 5-BBLs WATER.	
	07:30 - 09:00	1.50	TRP	2	CONTINUED RIH WITH 59-JT'S 2 7/8" TBG. EOT @ 8790'.	
	09:00 - 09:30	0.50	CIRC	1	RU PUMP AND CLEAR TBG WITH 45-BBLs 2% KCL. SWIFD.	
	09:30 - 11:00	1.50	TRAV	1	TRAVEL TO TOWN.	
	10/13/2010	06:30 - 08:00	1.50	TRAV	1	10/13/10: TRAVEL TO LOCATION.
		08:00 - 08:15	0.25	WCL	2	CHECK PRESSURE: SICP= 80# PSI. SITP= 250# PSI. BLOW WELL TO 0-PRESSURE.
08:15 - 09:00		0.75	OTH		RU HALLIBURTON ACID PLUMPERS.	

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## Operations Summary Report

Well Name: SSU 2G-3-8-21  
 Location: 3-8-S 21-E 26  
 Rig Name: MARTINEZ WELL SERVICE

Spud Date: 7/8/2010  
 Rig Release:  
 Rig Number: 1

Date	From - To	Hours	Code	Sub Code	Description of Operations
10/13/2010	09:00 - 10:15	1.25	STIM	1	WITH EOT@ 8790. PUMPED 9000 GAL 15% HCL, FLUSHED WITH 33.5-BBLS OF 2% KCL FOLLOWED BY 20-BBLS 10# BRINE. AVG RT= 5.7 BPM, MAX RT= 5.7-BPM, AVG PSI= 3450#, MAX PSI= 3507# ISIP= 714#. TOTAL BBLS= 267
	10:15 - 10:45	0.50	TRP	14	POOH WITH 17-JT'S TBG. EOT@ 8264'
	10:45 - 11:15	0.50	STIM	1	WITH EOT@ 8264'. PUMPED 9000 GAL 15% HCL, FLUSHED WITH 30-BBLS 2% KCL FOLLOWED BY 20-BBLS 10# BRINE. AVG RT= 5.7 BPM, MAX RT= 5.7 BPM, AVG PSI= 3450#, MAX PSI= 3507#. TOTAL=BBLS= 264
	11:15 - 11:45	0.50	TRP	14	POOH WITH 16-JT'S TBG. EOT@ 7767'
	11:45 - 14:00	2.25	OTH		WAIT ON HALLIBURTON TO REPAIR ACID PUMPER.
	14:00 - 14:45	0.75	STIM	1	WITH EOT@ 7767'. PUMPED 8000 GAL 15% HCL, FLUSHED WITH 10-BBLS 2% KCL FOLLOWED BY 30-BBLS 10# BRINE. AVG RT= 6.2 BPM, MAX RT= 6.6 BPM, AVG PSI= 3800#, MAX PSI= 4017#. TOTAL BBLS= 231
	14:45 - 15:15	0.50	TRP	14	POOH WITH 15-JT'S TBG. EOT@ 7304'
	15:15 - 16:00	0.75	STIM	1	WITH EOT@ 7304'. PUMPED 8000 GAL 15% HCL, FLUSHED WITH 10-BBLS 2% KCL FOLLOWED BY 30-BBLS 10# BRINE. AVG RT= 6.4 BPM, MAX RT= 6.6 BPM, AVG PSI= 3940#, MAX PSI= 3955#. TOTAL BBLS= 231.5
	16:00 - 16:15	0.25	TRP	14	POOH WITH 15-JT'S TBG. EOT@ 6844'
	16:15 - 17:00	0.75	STIM	1	WITH EOT@ 6844'. PUMPED 8000 GAL 15% HCL, FLUSHED WITH 10-BBLS 2% KCL FOLLOWED BY 30-BBLS 10# BRINE. AVG RT= 6.4 BPM. MAX RT= 6.6 BPM , AVG PSI= 3820#, MAX PSI= 3870#. TOTAL BBLS= 231
	17:00 - 17:15	0.25	TRP	14	POOH WITH 20-JT'S TBG. EOT@ 6229'
	17:15 - 17:45	0.50	STIM	1	WITH EOT@ 6229'. PUMPED 8000 GAL 15% HCL, FLUSHED WITH 30-BBLS 2% KCL. AVG RT= 6.6 BPM, MAX RT= 6.6 BPM, AVG PSI= 3680#, MAX PSI= 3750#., TOTAL BBLS= 220
	17:45 - 18:00	0.25	OTH		SWIFN. RD HALLIBURTON.
	18:00 - 19:30	1.50	TRAV	1	TRAVEL TO TOWN.
10/14/2010	05:30 - 07:00	1.50	TRAV	1	10/14/10: TRAVEL TO LOCATION.
	07:00 - 07:15	0.25	OTH		CHECK PRESSURE: SICP= 75# PSI. SITP= 250# PSI.
	07:15 - 08:00	0.75	WCL	2	OPEN WELL UP AND BLOW PRESSURE DOWN TO 0-PSI. RECOVERED 60-BBLS WATER FLOWBACK.
	08:00 - 08:15	0.25	WCL	1	PUMPED 20-BBLS 2% KCL DOWN TBG.
	08:15 - 09:00	0.75	TRP	2	POOH WITH 56-JT'S 2 7/8" TBG AND STOOD BACK IN DERRICK.
	09:00 - 10:00	1.00	OTH		CHANGE EQUIPMENT OVER FOR 2 N3/8" TBG. CHANGE OUT PIPE RAMS.
	10:00 - 11:30	1.50	TRP	5	LD 75-JT'S 2 3/8" HYDRIL TBG. EOT@ 2210'
	11:30 - 12:00	0.50	CIRC	1	CIRCULATE 75-BBLS 2% KCL DOWN TBG TO CONTROL WELL.
	12:00 - 13:00	1.00	TRP	1	FINISH POOH WITH 73-JT'S 2 3/8" HYDRIL TBG. SWIFD
	13:00 - 14:00	1.00	OTH		CHANGE ALL EQUIPMENT OVER FOR 2 7/8" TBG.
10/15/2010	14:00 - 15:30	1.50	TRAV	1	TRAVEL TO TOWN.
	05:30 - 07:00	1.50	TRAV	1	10/15/10: TRAVEL TO LOCATION.
	07:00 - 07:15	0.25	OTH		CHECK PRESSURE: SICP= 150# PSI.
	07:15 - 12:00	4.75	WCL	1	OPEN WELL UP TO PIT. START FLOWING OIL. PUMP 20-BBLS 10# BRINE WATER DOWN CSG. OPENED WELL BACK UP. FLOW 2-BBLS WATER AND TURNED TO OIL. PUMP ADDITIONAL 50-BBLS BRINE WATER DOWN CSG. SHUT IN FOR 30-MINUTES. OPENED BACK UP AND STARTED FLOWING OIL. PUMP ADDITIONAL 50-BBLS BRINE WATER DOWN CSG AND SWI FOR WEEKEND.
10/18/2010	12:00 - 13:30	1.50	TRAV	1	TRAVEL TO TOWN.
	05:30 - 07:00	1.50	TRAV	1	10/18/10: TRAVEL TO LOCATION.
	07:00 - 07:15	0.25	WCL	2	CHECK PRESSURE: SICP=125# PSI. BLOW WELL DOWN WITH 0- FLUID RECOVERY.
	07:15 - 07:30	0.25	WCL	1	PUMPED 25-BBLS 10# BRINE WATER DOWN CSG.
	07:30 - 08:15	0.75	TRP	1	PU AND MU WHIPSTOCK RETRIEVING TOOL, STRING FLOAT, X-OVER, 3 3/4" HYD. JARS, 4- 3 1/2" DRILL COLLARS, 3 3/4" INT. AND X-OVER AS BHA.

CONFIDENTIAL

## Operations Summary Report

Well Name: SSU 2G-3-8-21  
 Location: 3-8-S 21-E 26  
 Rig Name: MARTINEZ WELL SERVICE

Spud Date: 7/8/2010  
 Rig Release:  
 Rig Number: 1

Date	From - To	Hours	Code	Sub Code	Description of Operations
10/18/2010	08:15 - 09:30	1.25	TRP	2	RIH WITH BHA ANDM 138-JT'S TBG.
	09:30 - 10:00	0.50	FISH	3	LATCH INTO WHIPSTOCK SET @ 4407' (TOP) AND JAR LOOSE @ 35K OVER STRING WT.
	10:00 - 12:00	2.00	TRP	2	POOH WITH WITH TBG, BHA AND WHIPSTOCK.
	12:00 - 13:00	1.00	TRP	1	LD WHIPSTOCK AND BHA.
	13:00 - 13:30	0.50	LUN	1	LUNCH
	13:30 - 15:30	2.00	TRP	2	MU AND RIH WITH RH AND 142-JT'S 2 7/8" TBG. EOT@ 4393' SWIFN.
10/19/2010	15:30 - 17:00	1.50			TRAVEL TO TOWN.
	05:30 - 07:00	1.50	TRAV	1	10/19/10: TRAVEL TO LOCATION.
	07:00 - 07:15	0.25	OTH		CHECK PRESSURE: SICP= 75# PSI. SITP= 125# PSI.
	07:15 - 09:15	2.00	CIRC	1	WITH EOT@ 4393'. RU PUMP AND GET CIRCULATION WITH 30-BBLS 2% KCL. CIRCULATE ADDITIONAL 150-BBLS 2% KCL HEATED TO 150 DEGREES. CIRCULATE ONTO AND RELEASED WRBP SET @ 4435'
	09:15 - 09:45	0.50	DEQ	1	POOH WITH 144 JT'S TBG AND WRBP. LD PLUG.
	09:45 - 11:15	1.50	TRP	2	RIH WITH 144-JT'S TBG.
10/20/2010	11:15 - 12:15	1.00	TRP	2	POOH AND LD 144-JT'S 2 7/8" TBG. SWIFN.
	12:15 - 14:30	2.25	TRP	5	CHANGE EQUIPMENT OVER FOR 4 1/2" CSG.
	14:30 - 15:00	0.50	OTH		TRAVEL TO TOWN.
	15:00 - 16:30	1.50	TRAV	1	10/20/10: TRAVEL TO LOCATION.
	05:30 - 07:00	1.50	TRAV	1	CHECK PRESSURE: SICP= 175# PSI.
	07:00 - 07:15	0.25	OTH		RU LINE FROM CSG TO FLOWBACK TANK. OPEN WELL FULL OPEN.
	07:15 - 07:45	0.50	WCL	2	SPOT CAT WALK AND PIPE RACKS. OFF LOAD 115-JT'S OF 4 1/2", 11.6#, N-80, LT&C FRAC STRING.
	07:45 - 09:30	1.75	OTH		REMOVED THREAD PROTECTORS. CLEANED THREADS, DRIFTED AND TALLIED 115-JT'S FRAC STRING.
	09:30 - 13:30	4.00	OTH		PUMPED 75-BBLS 10# BRINE WATER DOWN CASING. SWIFN. REC. 20-BBLS OIL AND 25-BBLS WATER.
	13:30 - 14:00	0.50	CIRC	1	TRAVEL TO TOWN.
10/21/2010	14:00 - 15:30	1.50	TRAV	1	10/21/10: TRAVEL TO LOCATION.
	05:30 - 07:00	1.50	TRAV	1	CHECK PRESSURE: SICP= 50# PSI. BLOW DOWN TO 0- PRESSURE.
	07:00 - 07:15	0.25	WCL	2	WAITING ON FRANKS WESTATES CASING SERVICE DUE TO HEAVY FOG.
	07:15 - 08:15	1.00	WOT	4	RU FRANKS CSG SERVICE.
	08:15 - 09:30	1.25	CSG	1	PUMPED 50-BBLS 10# BRINE WATER DOWN CSG.
	09:30 - 09:45	0.25	WCL	1	PU AND RIH WITH 105-JT'S OF 4 1/2" 11.6# N-80 CSG. TAG LINER TOP @ 4522' SPACED OUT CSG. LD 1-JT. PU AND MU 7' PUP JT. STUNG INTO LT AND SET CSG IN SLIPS WITH 20,000# COMPRESSION. LOAD 4 1/2" CSG WITH 3-BBLS WATER. PUMPED ADDITIONAL 10-BBLS WATER WITH NO COMMUNICATION UP 7" CSG.
	09:45 - 15:15	5.50	CSG	2	RD CASING CREW.
	15:15 - 15:45	0.50	CSG	1	NU 4 1/16" 10K SCREW ON FLANGE ON CSG. NU 4 1/16" 10K FLOW TEE AND FRAC VALVE ON TOP OF FLANGE. SWIFN.
10/22/2010	15:45 - 17:00	1.25	WHD	2	TRAVEL TO TOWN.
	17:00 - 18:30	1.50	TRAV	1	10/22/10: TRAVEL TO LOCATION.
	05:30 - 07:00	1.50	TRAV	1	CHECK PRESSURE: UPPER LATERAL SI PRESSURE= 0-PSI. LOWER LATERAL SI PRESSURE= 0-PSI.
	07:00 - 07:15	0.25	OTH		RACK OUT PUMP AND TANK. RACK OUT RIG EQUIPMENT. CLEAN UP LOCATION.
	07:15 - 09:00	1.75	OTH		RDMO
10/28/2010	09:00 - 10:30	1.50	LOC	4	ROAD RIG TO ROOSEVELT YARD.
	10:30 - 12:00	1.50	LOC	3	"TIGHT HOLE"; Resumption of completion
	06:00 - 16:00	10.00	STIM	5	On 10/27/10 MIRU Halliburton frac crew. Frac the following horizontal depths using a 15% gelled acid and 16/30 sand with spacers thru stim sleeves isolated by Halliburton swell packers. All water used was 2% KCL water.

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## Operations Summary Report

Well Name: SSU 2G-3-8-21  
 Location: 3- 8-S 21-E 26  
 Rig Name: MARTINEZ WELL SERVICE

Spud Date: 7/8/2010  
 Rig Release:  
 Rig Number: 1

Date	From - To	Hours	Code	Sub Code	Description of Operations
10/28/2010	06:00 - 16:00	10.00	STIM	5	<p>Zone #1: Sleeve at 9112'. Open sleeve with a 2.375" ball and treat with 7860 gal. of acid and 19032 gal. of water with an ave. slurry rate of 33.1 BPM; Max=37.9 BPM; Total of 8600# of 16/30 sand. Max.psi=3184#; Ave=2760#.</p> <p>Zone #2: Sleeve at 8715'. Open sleeve with a 2.60" ball and treat with 7535 gal. of acid and 9355 gal. of water with an ave. slurry rate of 33.2 BPM; Max.=35.6 BPM Total of 8800# of 16/30 sand. Max.psi=2947#; Ave=2816#.</p> <p>Zone #3: Sleeve at 8418". Open sleeve with a 2.625" ball and treat with 8083 gal. of acid and 8524 gal. of water with an ave. slurry rate of 38.2 BPM; Max=40.3 BPM; Total of 9100# of 16/30 sand. Max.psi=3652#; Ave=2749#.</p> <p>Zone #4: Sleeve at 8131' Open sleeve with a 2.750" ball and treat with 8096 gal of acid and 9296 gal of water with an ave. slurry rate of 34.7 BPM; Max=40.3 BPM; Total of 10M# of 16/30 sand. Max.psi=2651#; Ave=2349#.</p> <p>Zone #5: Sleeve at 7782'. Open sleeve with a 2.876" ball and treat with 500 gal. of acid and 8655 gal. of water with no sand as after opening sleeve van broke down and could not get into zone. No frac stimulation.</p> <p>Zone #6: Sleeve at 7478'. Open sleeve with a 3.0" ball and treat with 7992 gal. of acid and 9974 gal. of water with an ave. slurry rate of 35.3 BPM; Max=47.4' total of 9700# of sand. Max.psi=3258#; Ave=2767#.</p> <p>Zone #7: Sleeve at 7177'. Open sleeve with a 3.125" ball and treat with 7545 gal. of acid and 9289 gal. of water with an ave. slurry rate of 39.2 BPM; Max=41.1 BPM; Total of 9400# of sand. Max.psi=3050#; Ave=2787#.</p> <p>Zone #8: Sleeve at 6845'. Open sleeve with a 3.280" ball and treat with 7533 gal. of acid and 7702 gal. of water with an ave. slurry rate of 36.6 BPM; Max=39.5. total of 9300# of sand. Max.psi=3025#; Ave=2808#.</p> <p>Zone #9: Sleeve at 6547'. Drop a 3.443" ball and attempt to open sleeve but do not believe ball is on the sleeve due to sand spike in above zone. SIFN.</p> <p>On 10/28/10 will attempt to finish stimulation on last 2 stages.</p> <p>Casing size: 4-1/2" 11.6# N-80</p> <p>Load from yesterday: 105bbl.          Plus water today: 3215 bbl.          LLTR: 3365.</p>
11/1/2010	05:30 - 07:00 07:00 - 10:00 10:00 - 10:15 10:15 - 10:30 10:30 - 11:00 11:00 - 12:30 12:30 - 13:00 13:00 - 14:30 14:30 - 17:00	1.50 3.00 0.25 0.25 0.50 1.50 0.50 1.50 2.50	TRAV LOC OTH WHD BOP OTH LUN WOT TRP	1 4  2 1 1 4 5	<p>11/1/10: TRAVEL TO LOCATION.</p> <p>SPOT RIG IN. HAD TO SURE UP FOUNDATION DUE TO SOFT GROUND AND RIG SINKING. FINISHED RIGGING UP.</p> <p>CHECK PRESSURE: SICP= 600# PSI. BLOW TO 0-PSI. REC-1/4 BBL.</p> <p>ND FRAC HEAD ASSEMBLY.</p> <p>CHANGE RAMS OVER FOR 2 3/8" TBG. NU BOP'S.</p> <p>RAISE AND RU DRILLERS PLATFORM. RU UP FLOOR AND TBG EQUIPMENT.</p> <p>LUNCH</p> <p>WAIT ON TBG.</p> <p>TALLY, RABBIT AND RIH WITH 100-JT'S 2 3/8" CS HYDRIL TBG. BOTTOM JOINT CUT TO A 45 DEGREE MULE SHOE. EOT @ 3020'. SWIFN.</p>
11/2/2010	17:00 - 18:30 05:30 - 07:00 07:00 - 07:45 07:45 - 12:30	1.50 1.50 0.75 4.75	TRAV TRAV WCL TRP	1 1 2 5	<p>TRAVEL TO TOWN.</p> <p>11/2/10: TRAVEL TO LOCATION.</p> <p>CHECK PRESSURE: SICP= 550# PSI. SITP= 575# PSI. BLEW WELL TO 0-PSI. RECOVERED 1/2- BBL FLUID.</p> <p>CONTINUE TO TALLY, RABBIT AND RIH WITH X-OVER AND 205-JT'S 2 3/8" TBG. TAG SAND @ 6234' ( TOP BAFFLE )</p>

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## Operations Summary Report

Well Name: SSU 2G-3-8-21  
 Location: 3-8-S 21-E 26  
 Rig Name: MARTINEZ WELL SERVICE

Spud Date: 7/8/2010  
 Rig Release:  
 Rig Number: 1

Date	From - To	Hours	Code	Sub Code	Description of Operations
11/2/2010	12:30 - 16:15	3.75	CIRC	1	RU CIRCULATING EQUIPMENT. GET CIRCULATION WITH HOLE FULL. REVERSE CIRCULATE AND C/O SAND DOWN TO 6400'. ( 166' )CIRCULATE CLEAN,
	16:15 - 17:00	0.75	TRP	14	POOH WITH 64-JT'S TBG. EOT@ 4440'. WELL STARTED TO FLOW.
	17:00 - 17:30	0.50	CIRC	1	REVERSE CIRCULATE HOLE CLEAN. SWIFN.
11/3/2010	17:30 - 19:00	1.50	TRAV	1	TRAVEL TO TOWN.
	05:30 - 07:00	1.50	TRAV	1	11/3/10: TRAVEL TO LOCATION.
	07:00 - 07:45	0.75	WCL	2	CHECK PRESSURE: SICP= 500# PSI. SITP= 500# PSI. BLOW WELL TO 0-PRESSURE. RECOVERED 30-BBLS WATER AND OIL.
	07:45 - 08:15	0.50	WCL	1	REVERSE CIRCULATE 30-BBLS WATER TO GET OIL AND GAS OUT OF TBG.
	08:15 - 09:00	0.75	TRP	14	RIH WITH 64-JT'S TBG. RU CIRCULATING EQUIPMENT.
11/4/2010	09:00 - 13:00	4.00	CIRC	1	TAG SAND @ 6400'. REVERSE CIRCULATE AND C/O SAND TO 6547'. (BAFFLE) CIRCULATE CLEAN. RU TECH FOAM AIR UNIT. CONVENTIONAL CIRCULATE AND BLOW AIR AND FOAM AROUND TO UNLOAD HOLE.
	13:00 - 13:30	0.50	TRP	14	POOH WITH 67-JT'S TBG. EOT@ 4500'
	13:30 - 17:00	3.50	WCL	2	FLOW CSG TO FLOWBACK TANK FULL/OPEN WITH 25# PRESSURE. RECOVERED 250-BBLS FLUID. 80% OIL CUT, 0-SAND. 20# PRESSURE. TURN OVER TO FLOWTESTERS.
	17:00 - 18:30	1.50	TRAV	1	PRIOR TO TURNING WELL OVER TO TESTERS, OPENED UPPER LATTERAL UP WITH 250# PSI. FLOW 110-BBLS OIL. CLOSED UPPER LATTERAL BACK IN. WILL TRANSFER OIL AND OPEN BACK UP. SDFD.
	05:30 - 07:00	1.50	TRAV	1	TRAVEL TO TOWN.
	07:00 - 08:00	1.00	OTH		11/4/10: TRAVEL TO LOCATION.
	08:00 - 08:30	0.50	TRP	2	CHECK PRESSURE: FCP= 0-PSI. SITP= 250# PSI. BLOW TBG TO 0-PSI. PUMP 20-BBLS 2% KCL DOWN TBG TO CLEAR.
	08:30 - 10:30	2.00	TRP	5	POOH WITH 48-JT'S 2 3/8" 8RD TBG.
	10:30 - 11:30	1.00	BOP	1	FINIISH POOH LAYING DOWN 100-JT'S 2 3/8" HYDRIL TBG.
	11:30 - 12:00	0.50	OTH		RD TBG EQUIPMENT. ND UPPER SET OF BOP'S.
	12:00 - 13:30	1.50	TRP	5	CHANGE EQUIPMENT OVER FOR 4 1/2" CSG.
	13:30 - 14:45	1.25	CIRC	1	STUNG OUT OF LINER TOP @ 4522'. LD 7' PUP JT AND 2-JT'S 4 1/2" FRAC STRING. WELL U-TUBED AND STARTED FLOWING UP 4 1/2" STRING.
	14:45 - 15:30	0.75	DEQ	4	CIRCULATE 175-BBLS 2% KCL DOWN 4 1/2" AND UP 7" CSG. HOLE FILLED WITH 15-BBLS. CIRCULATED OUT 45-BBLS OIL.
11/5/2010	15:30 - 16:00	0.50	BOP	1	MU 7" X 5K BOWL STYLE HANGER AND LANDED 4 1/2" CSG WITH END OF STINGER@ 4449' AND TOP OF STINGER@ 4428'. WELL WAS FLOWING WATER UP 4 1/2" STRING.
	16:00 - 16:30	0.50	OTH		ND BOTTOM BOP'S AND SCREWED IN THREAD SAVER IN HANGER. NU BOP'S. SWIFN.
	16:30 - 18:00	1.50	TRAV	1	CHANGE EQUIPMENT OVER FOR 2 3/8" TBG.
	05:30 - 07:00	1.50	TRAV	1	TRAVEL TO TOWN.
	07:00 - 07:15	0.25	OTH		11/5/10: TRAVEL TO LOCATION.
	07:15 - 07:30	0.25	WCL	2	SAFETY MEETING. CHECK PRESSURE: SICP ON 7"= 250# PSI. SICP ON 4 1/2"= 150# PSI.
	07:30 - 08:00	0.50	WCL	1	BLOW 4 1/2" DOWN TO 20# PSI. RECOVERED 10-BBLS OIL.
	08:00 - 10:00	2.00	TRP	2	PUMPED 30-BBLS 10# BRINE DOWN 4 1/2" FRAC STRING TO CONTROL FLOW. LEFT 7" FLOWING TO FLOWBACK TANK.
11/5/2010	10:00 - 11:00	1.00	BOP	1	PU AND RIH WITH 2 3/8" REGULAR COLLAR, 2 3/8" X 1 3/4" X 24 X 28 THMP TBG PUMP AND 141-JT'S 2 3/8" TBG.
	11:00 - 12:00	1.00	CIRC	1	RD TBG EQUIPMENT. ND BOP'S. LAND TBG WITH TAIL@ 4400'. NU WELLHEAD ASSEMBLY.
	12:00 - 12:15	0.25	OTH		RU HOT OILER AND FLUSHED TBG WITH 35-BBLS 2% KCL AND CHASED WITH 20-BBLS 10# BRINE WATER.
					CHANGE EQUIPMENT OVER FOR RODS.

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## Operations Summary Report

Well Name: SSU 2G-3-8-21  
 Location: 3-8-S 21-E 26  
 Rig Name: MARTINEZ WELL SERVICE

Spud Date: 7/8/2010  
 Rig Release:  
 Rig Number: 1

Date	From - To	Hours	Code	Sub Code	Description of Operations
11/5/2010	12:15 - 15:15	3.00	TRP	6	PU AND RIH WITH PLUNGER, 113- 3/4" SLICK RODS, 59- 7/8" SLICK RODS, 1-8', 1-6', 1-2' 7/8" PONY SUBS AND 1 1/4" X 26' POLISH ROD.
	15:15 - 15:30	0.25	TRP	18	LOAD TBG WITH 1/2-BBL WATER. LONG STROKE AND TEST PUMP AND TBG TO 800# PSI. HELD GOOD.
	15:30 - 17:00	1.50	SEQ	2	PU AND HANG HORSES HEAD. SPACED RODS OUT. HUNG WELL ON. CLEAN UP AND RACK OUT EQUIPMENT WHILE ROUSTABOUTS REMOVED WEIGHTS FROM PUMPING UNIT.
	17:00 - 18:00	1.00	OTH		ADJUSTED HORSES HEAD. TURN WELL OVER TO PRODUCTION.
11/8/2010	18:00 - 19:30	1.50	TRAV	1	TRAVEL TO TOWN.
	05:30 - 07:00	1.50	TRAV	1	11/8/10TRAVEL TO LOCATION.
	07:00 - 09:30	2.50	LOC	4	MADE SURE WELL WAS PUMPING. RACK OUT REMAINING EQUIPMENT. RDMO. LEFT WELL PUMPING.
12/20/2010	06:00 - 07:00	1.00	TRAV	1	12/20/2010 CREW TRAVEL. SAFETY MEETING.
	07:00 - 10:00	3.00	TRP	18	UNHANG RODS AND LD H HEAD. LONGSTROKE PUMP FROM 200 PSI TO 650 PSI. 6 STROKES. GOOD TEST. NO GOOD PUMP ACTION.
	10:00 - 12:00	2.00	TRP	6	POOH W/ 57 7/8" SLICK RODS. 113 3/4" SLICK RODS. PLUNGER FOR TBG PUMP AND RETREIVABLE STANDING VALVE.
	12:00 - 15:00	3.00	WCL	2	7" CSG HAD 20 PSI. 4 1/2" CSG HAD 650 PSI. BLOW DOWN WELL INTO PROD TKS.
	15:00 - 17:00	2.00	BOP	1	NDWH AND FLOWLINES. UNLAND TBG. NUBOP'S. RU RIG FLOOR.
12/21/2010	17:00 - 18:00	1.00	OTH		RU PUMP AND TANK. WINTERIZE PUMP. SECURE WELL. S-D-F-N.
	18:00 - 19:00	1.00	TRAV	1	CREW TRAVEL.
	06:00 - 07:00	1.00	TRAV	1	12/21/2010 CREW TRAVEL AND SAFETY MEETING.
	07:00 - 10:00	3.00	WOT	4	WAIT ON STUCK WTR TRUCK DRIVER AND HOT OILER.
	10:00 - 12:00	2.00	TRP	5	POOH W/ PROD TBG. 141 JTS 2 3/8", TBG PUMP, AND TAIL JT.
	12:00 - 13:00	1.00	BOP	1	X-OVER TO CSG EQUIP, RD RIG FLOOR AND NDBOP'S.
	13:00 - 14:00	1.00	TRP	5	UNLAND 4 1/2" CSG. PU AND RIH W/ 2 JTS OF 4 1/2" CSG. INSTALL CSG HANGER AND LAND CSG.
	14:00 - 15:00	1.00	BOP	1	NU BOP'S. X-OVER TO TBG EQUIP. RU RIG FLOOR.
	15:00 - 16:30	1.50	TRP	5	RIH W/ PROD TBG, TBG PUMP AND TAIL JT.
	16:30 - 17:30	1.00	BOP	1	RD RIG FLOOR. ND BOP'S. INSTALL LARKEN WELL HEAD. LAND TBG ON LARKEN WH.
12/22/2010	17:30 - 18:00	0.50	HOT	1	H-OILER FLUSHED TBG W/ 20 BBLS OF CHEM WTR. SECURE WELL. S-D-F-N.
	18:00 - 19:00	1.00	TRAV	1	CREW TRAVEL.
	06:00 - 07:00	1.00	TRAV	1	12/22/2010 CREW TRAVEL. SAFETY MEETING.
	07:00 - 09:00	2.00	HOT	1	0 PSI ON WELL. H-OILER FLUSHED TBG W/ 50 BBLS OF CHEM WTR.
	09:00 - 11:00	2.00	TRP	6	RIH W/ RETRIEVABLE STANDING VALVE, PLUNGER, 57-7/8" SLICK, 113-3/4" SLICK. SEAT VALVE.
	11:00 - 11:30	0.50	TRP	18	HOLE STANDING FULL. LONGSTROKE PUMP FROM 200 PSI TO 800 PSI. 3 STROKES. GOOD TEST, GOOD PUMP ACTION.
	11:30 - 12:30	1.00	OTH		INSTALL H-HEAD. REMOVE BRIDAL FOR CONSTRUCTION CREW. INSTALL NEW BRIDAL.
	12:30 - 14:00	1.50	LOC	4	RACK OUT EQUIP. WINTERIZE PUMP. RDMO.

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# SSU 2G-3-8-21 Lat1 - ST2 Field Survey Survey Report

<p>Report Date: December 14, 2010                  Client: QEP ENERGY                  Field: Uinta                  Structure / Slot: Sturip South Unit / SSU 2G-3-8-21                  Well: SSU 2G-3-8-21                  Borehole: Lateral1 - ST2                  UWJ/API#:                   Survey Name / Date: SSU 2G-3-8-21 Lat1 - ST2 Field Survey / August 28, 2010                  Tort / AHD / DDI / ERD ratio: 194.644° / 4132.92 ft / 6.120 / 0.730                  Grid Coordinate System: NAD83 Utah State Planes, Northern Zone, US Feet                  Location Lat/Long: N 40 9 27.530, W 109 32 19.390                  Location Grid N/E Y/X: N 3223010.812 ftUS, E 2188657.869 ftUS                  Grid Convergence Angle: +1.29318109°                  Grid Scale Factor: 1.00013714</p>	<p>Survey / DLS Computation Method: Minimum Curvature / Lubinski                  Vertical Section Azimuth: 269.800°                  Vertical Section Origin: N 0.000 ft, E 0.000 ft                  TVD Reference Datum: KB                  TVD Reference Elevation: 4756.0 ft relative to MSL                  Sea Bed / Ground Level Elevation: 4800.000 ft relative to MSL                  Magnetic Declination: 11.788°                  Total Field Strength: 52954.172 nT                  Magnetic Dip: 66.130°                  Declination Date: August 27, 2010                  Magnetic Declination Model: IGRF 2005                  North Reference: True North                  Total Corr Mag North -&gt; True North: +11.788°                  Local Coordinates Referenced To: Well Head</p>
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Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (deg)	DLS (deg/100 ft)	Tool Face (deg)
Tie-In	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.47M
	43.00	0.24	9.47	43.00	-0.02	0.09	0.01	0.09	9.47	0.56	6.54M
	73.00	0.32	6.54	73.00	-0.04	0.23	0.03	0.24	8.43	0.27	4.83M
	103.00	0.41	4.83	103.00	-0.05	0.42	0.05	0.43	7.16	0.30	6.93M
	133.00	0.39	6.93	133.00	-0.08	0.63	0.07	0.64	6.73	0.08	9.62M
	163.00	0.36	9.62	163.00	-0.11	0.83	0.10	0.83	7.08	0.12	10.64M
	193.00	0.27	10.64	193.00	-0.13	0.99	0.13	1.00	7.57	0.30	12.27M
	223.00	0.16	12.27	223.00	-0.16	1.10	0.15	1.11	7.94	0.37	16.51M
	253.00	0.17	16.51	253.00	-0.18	1.18	0.18	1.20	8.41	0.05	19.73M
	283.00	0.20	19.73	283.00	-0.21	1.28	0.21	1.29	9.15	0.11	22.03M
	313.00	0.18	22.03	313.00	-0.25	1.37	0.24	1.39	9.98	0.07	25.06M
	343.00	0.15	25.06	343.00	-0.28	1.45	0.27	1.47	10.76	0.10	28.18M
	373.00	0.14	28.18	373.00	-0.31	1.52	0.31	1.55	11.52	0.04	31.34M
	403.00	0.13	31.34	403.00	-0.35	1.58	0.34	1.61	12.31	0.04	36.00M
	433.00	0.12	36.00	433.00	-0.39	1.63	0.38	1.67	13.12	0.05	42.32M
	463.00	0.11	42.32	463.00	-0.42	1.68	0.42	1.73	13.99	0.05	46.37M
	493.00	0.08	46.37	493.00	-0.46	1.71	0.45	1.77	14.79	0.10	50.54M
	523.00	0.05	50.54	523.00	-0.48	1.74	0.48	1.80	15.38	0.10	134.76M
	553.00	0.01	134.76	553.00	-0.50	1.74	0.49	1.81	15.70	0.17	-138.77M
	583.00	0.07	221.23	583.00	-0.49	1.73	0.48	1.79	15.52	0.23	-135.32M
	613.00	0.12	224.68	613.00	-0.45	1.69	0.45	1.75	14.75	0.17	-132.82M
	643.00	0.15	227.18	643.00	-0.40	1.64	0.39	1.69	13.51	0.10	-128.39M
	673.00	0.17	231.61	673.00	-0.34	1.59	0.33	1.62	11.77	0.08	-121.73M
	703.00	0.18	238.27	703.00	-0.26	1.54	0.26	1.56	9.46	0.08	-122.46M
	733.00	0.20	237.54	733.00	-0.18	1.48	0.17	1.49	6.60	0.07	-130.24M
	763.00	0.24	229.76	763.00	-0.08	1.41	0.08	1.42	3.21	0.17	-134.52M
	793.00	0.29	225.48	792.99	0.02	1.32	-0.02	1.32	359.02	0.18	-135.89M
	823.00	0.36	224.11	822.99	0.14	1.20	-0.14	1.21	353.23	0.23	-135.95M
	853.00	0.44	224.05	852.99	0.28	1.05	-0.29	1.09	344.64	0.27	-134.93M
	883.00	0.53	225.07	882.99	0.46	0.87	-0.47	0.99	331.74	0.30	-131.67M
	913.00	0.60	228.33	912.99	0.68	0.67	-0.68	0.95	314.29	0.26	-123.92M
	943.00	0.64	236.08	942.99	0.94	0.47	-0.94	1.05	296.48	0.31	-120.25M
	973.00	0.68	239.75	972.99	1.23	0.28	-1.23	1.26	283.00	0.19	-124.05M
	1003.00	0.70	235.95	1002.99	1.54	0.09	-1.54	1.54	273.42	0.17	-127.58M
	1033.00	0.73	232.42	1032.98	1.84	-0.13	-1.84	1.84	266.04	0.18	-130.85M
	1063.00	0.76	229.15	1062.98	2.14	-0.37	-2.14	2.17	260.10	0.17	-133.18M
	1093.00	0.78	226.82	1092.98	2.44	-0.64	-2.44	2.52	255.23	0.12	-131.94M
	1123.00	0.74	228.06	1122.97	2.74	-0.91	-2.73	2.88	251.54	0.14	-130.56M

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Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (deg)	DLS (deg/100 ft)	Tool Face (deg)
	1153.00	0.70	229.44	1152.97	3.02	-1.16	-3.02	3.23	248.95	0.15	-129.03M
	1183.00	0.66	230.97	1182.97	3.30	-1.39	-3.29	3.57	247.11	0.15	-128.28M
	1213.00	0.63	231.72	1212.97	3.56	-1.60	-3.55	3.90	245.76	0.10	-140.43M
	1243.00	0.67	219.57	1242.97	3.80	-1.84	-3.80	4.22	244.17	0.48	-150.27M
	1273.00	0.73	209.73	1272.96	4.01	-2.14	-4.00	4.54	241.88	0.45	-140.95M
	1303.00	0.68	219.05	1302.96	4.22	-2.44	-4.21	4.87	239.87	0.42	-130.53M
	1333.00	0.65	229.47	1332.96	4.46	-2.69	-4.45	5.20	238.83	0.41	-128.41M
	1363.00	0.70	231.59	1362.96	4.73	-2.92	-4.72	5.55	238.31	0.19	-127.11M
	1393.00	0.75	232.89	1392.96	5.04	-3.15	-5.02	5.93	237.92	0.18	-124.08M
	1423.00	0.78	235.92	1422.95	5.36	-3.38	-5.35	6.33	237.70	0.17	-121.00M
	1453.00	0.82	239.00	1452.95	5.72	-3.61	-5.70	6.75	237.69	0.20	-120.30M
	1483.00	0.89	239.70	1482.95	6.10	-3.83	-6.09	7.20	237.79	0.24	-120.16M
	1513.00	0.96	239.84	1512.94	6.52	-4.08	-6.51	7.68	237.92	0.23	-120.05M
	1543.00	1.04	239.95	1542.94	6.97	-4.34	-6.96	8.20	238.04	0.27	-119.95M
	1573.00	1.12	240.05	1572.93	7.47	-4.62	-7.45	8.77	238.17	0.27	-122.69M
	1603.00	1.15	237.31	1602.93	7.97	-4.93	-7.96	9.36	238.20	0.21	-127.31M
	1633.00	1.15	232.69	1632.92	8.47	-5.28	-8.45	9.96	238.01	0.31	-128.55M
	1663.00	1.11	231.45	1662.92	8.94	-5.64	-8.92	10.55	237.68	0.16	-126.20M
	1693.00	1.04	233.80	1692.91	9.38	-5.98	-9.36	11.11	237.42	0.28	-123.47M
	1723.00	0.96	236.53	1722.91	9.81	-6.28	-9.79	11.63	237.32	0.31	-120.28M
	1753.00	0.89	239.72	1752.90	10.23	-6.54	-10.20	12.12	237.35	0.29	-116.90M
	1783.00	0.82	243.10	1782.90	10.62	-6.75	-10.60	12.57	237.49	0.29	-113.92M
	1813.00	0.78	246.08	1812.90	11.00	-6.93	-10.97	12.98	237.72	0.19	-110.83M
	1843.00	0.73	249.17	1842.89	11.36	-7.08	-11.34	13.37	238.00	0.21	-108.58M
	1873.00	0.67	251.42	1872.89	11.71	-7.21	-11.68	13.73	238.33	0.22	-106.07M
	1903.00	0.62	253.93	1902.89	12.03	-7.31	-12.01	14.06	238.67	0.19	-107.40M
	1933.00	0.59	252.60	1932.89	12.34	-7.40	-12.31	14.36	238.99	0.11	-108.85M
	1963.00	0.57	251.15	1962.89	12.62	-7.49	-12.60	14.66	239.25	0.08	-113.37M
	1993.00	0.58	246.63	1992.88	12.91	-7.60	-12.88	14.96	239.45	0.15	-117.88M
	2023.00	0.60	242.12	2022.88	13.18	-7.74	-13.16	15.26	239.54	0.17	-119.42M
	2053.00	0.60	240.58	2052.88	13.46	-7.89	-13.43	15.58	239.58	0.05	-120.51M
	2083.00	0.61	239.49	2082.88	13.74	-8.05	-13.71	15.89	239.59	0.05	-122.31M
	2113.00	0.62	237.69	2112.88	14.01	-8.21	-13.98	16.22	239.57	0.07	-124.27M
	2143.00	0.63	235.73	2142.88	14.28	-8.39	-14.26	16.54	239.51	0.08	-121.25M
	2173.00	0.62	238.75	2172.87	14.56	-8.57	-14.53	16.87	239.47	0.11	-115.12M
	2203.00	0.61	244.88	2202.87	14.84	-8.72	-14.81	17.19	239.51	0.22	-108.80M
	2233.00	0.60	251.20	2232.87	15.14	-8.84	-15.11	17.50	239.67	0.22	-102.42M
	2263.00	0.61	257.58	2262.87	15.44	-8.93	-15.41	17.81	239.92	0.23	-97.16M
	2293.00	0.60	262.84	2292.87	15.75	-8.98	-15.72	18.11	240.27	0.19	-92.90M
	2323.00	0.58	267.10	2322.87	16.06	-9.01	-16.03	18.39	240.67	0.16	-89.69M
	2353.00	0.58	270.31	2352.86	16.37	-9.01	-16.33	18.66	241.11	0.11	-88.72M
	2383.00	0.61	271.28	2382.86	16.68	-9.01	-16.65	18.93	241.58	0.11	-86.09M
	2413.00	0.63	273.91	2412.86	17.00	-8.99	-16.97	19.21	242.08	0.12	-79.16M
	2443.00	0.67	280.84	2442.86	17.34	-8.95	-17.31	19.48	242.66	0.29	-75.11M
	2473.00	0.71	284.89	2472.86	17.69	-8.87	-17.66	19.76	243.33	0.21	-81.62M
	2503.00	0.75	278.38	2502.85	18.06	-8.79	-18.03	20.06	244.01	0.31	-87.10M
	2533.00	0.79	272.90	2532.85	18.46	-8.75	-18.43	20.41	244.60	0.28	-88.21M
	2563.00	0.79	271.79	2562.85	18.88	-8.74	-18.85	20.77	245.13	0.05	-89.32M
	2593.00	0.79	270.68	2592.85	19.29	-8.73	-19.26	21.15	245.62	0.05	-99.34M
	2623.00	0.78	260.66	2622.84	19.70	-8.76	-19.67	21.53	246.00	0.46	-109.75M
	2653.00	0.79	250.25	2652.84	20.10	-8.86	-20.07	21.93	246.17	0.48	-110.50M
	2683.00	0.77	249.50	2682.84	20.48	-9.00	-20.45	22.34	246.24	0.07	-109.30M
	2713.00	0.74	250.70	2712.83	20.85	-9.14	-20.82	22.74	246.31	0.11	-106.96M
	2743.00	0.66	253.04	2742.83	21.20	-9.25	-21.17	23.10	246.39	0.28	-103.38M

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	2773.00	0.56	256.62	2772.83	21.51	-9.34	-21.48	23.42	246.51	0.36	-112.67M
	2803.00	0.58	247.33	2802.83	21.79	-9.43	-21.76	23.71	246.57	0.31	-125.77M
	2833.00	0.69	234.23	2832.83	22.08	-9.59	-22.05	24.04	246.49	0.60	-130.34M
	2863.00	0.75	229.66	2862.82	22.38	-9.82	-22.34	24.41	246.26	0.28	-130.79M
	2893.00	0.75	229.21	2892.82	22.68	-10.08	-22.64	24.78	246.00	0.02	-139.14M
	2923.00	0.73	220.86	2922.82	22.95	-10.35	-22.91	25.14	245.69	0.37	-158.17M
	2953.00	0.74	201.83	2952.82	23.15	-10.68	-23.11	25.46	245.20	0.81	-163.61M
	2983.00	0.84	196.39	2982.81	23.28	-11.07	-23.24	25.75	244.54	0.42	-151.51M
	3013.00	0.98	208.49	3012.81	23.47	-11.50	-23.43	26.10	243.85	0.79	-143.66M
	3043.00	1.08	216.34	3042.81	23.76	-11.96	-23.72	26.56	243.25	0.58	-138.42M
	3073.00	0.98	221.58	3072.80	24.10	-12.38	-24.06	27.05	242.77	0.46	-133.53M
	3103.00	0.91	226.47	3102.80	24.44	-12.73	-24.40	27.52	242.44	0.36	-135.73M
	3133.00	0.98	224.27	3132.79	24.80	-13.08	-24.75	28.00	242.14	0.26	-137.94M
	3163.00	1.05	222.06	3162.79	25.16	-13.47	-25.12	28.50	241.80	0.27	-144.09M
	3193.00	1.10	215.91	3192.78	25.52	-13.91	-25.47	29.02	241.36	0.42	-149.64M
	3223.00	1.17	210.36	3222.78	25.84	-14.40	-25.79	29.54	240.82	0.43	-154.47M
	3253.00	1.17	205.53	3252.77	26.13	-14.94	-26.08	30.06	240.19	0.33	-159.22M
	3283.00	1.18	200.78	3282.76	26.37	-15.51	-26.32	30.55	239.49	0.33	-165.32M
	3313.00	1.09	194.68	3312.76	26.56	-16.07	-26.50	31.00	238.76	0.50	-172.82M
	3343.00	1.00	187.18	3342.75	26.66	-16.61	-26.61	31.37	238.02	0.55	-176.69M
	3373.00	1.03	183.31	3372.75	26.72	-17.14	-26.66	31.69	237.26	0.25	-178.68M
	3403.00	1.10	181.32	3402.74	26.74	-17.70	-26.68	32.01	236.44	0.26	-175.73M
	3433.00	1.18	184.27	3432.74	26.77	-18.29	-26.71	32.37	235.59	0.33	-170.94M
	3463.00	1.26	189.06	3462.73	26.85	-18.93	-26.78	32.79	234.75	0.43	-169.05M
	3493.00	1.44	190.95	3492.72	26.97	-19.62	-26.91	33.30	233.90	0.62	-169.24M
	3523.00	1.71	190.76	3522.71	27.13	-20.43	-27.06	33.91	232.95	0.90	-170.00M
	3553.00	1.96	190.00	3552.70	27.31	-21.38	-27.23	34.62	231.87	0.84	-171.25M
	3583.00	2.19	188.75	3582.68	27.49	-22.45	-27.41	35.43	230.68	0.78	-172.18M
	3613.00	2.39	187.82	3612.65	27.66	-23.63	-27.58	36.32	229.41	0.68	-172.87M
	3643.00	2.52	187.13	3642.62	27.84	-24.91	-27.75	37.29	228.09	0.44	-174.56M
	3673.00	2.66	185.44	3672.59	27.99	-26.26	-27.90	38.31	226.74	0.53	-178.09M
	3703.00	2.82	181.91	3702.56	28.08	-27.69	-27.99	39.37	225.31	0.77	178.05M
	3733.00	2.99	178.05	3732.52	28.09	-29.21	-27.99	40.45	223.78	0.86	172.25M
	3763.00	3.15	172.25	3762.48	27.96	-30.80	-27.85	41.53	222.11	1.16	167.14M
	3793.00	3.31	167.14	3792.43	27.66	-32.47	-27.54	42.58	220.31	1.10	162.95M
	3823.00	3.26	162.95	3822.38	27.22	-34.13	-27.10	43.58	218.45	0.82	158.68M
	3853.00	3.24	158.68	3852.33	26.67	-35.73	-26.54	44.51	216.61	0.81	160.00M
	3883.00	3.13	160.00	3882.29	26.08	-37.29	-25.95	45.43	214.84	0.44	161.41M
	3913.00	3.02	161.41	3912.24	25.56	-38.81	-25.42	46.39	213.23	0.44	162.92M
	3943.00	2.92	162.92	3942.20	25.09	-40.29	-24.95	47.39	211.76	0.42	164.54M
	3973.00	2.81	164.54	3972.17	24.67	-41.73	-24.53	48.40	210.44	0.46	166.29M
	4003.00	2.71	166.29	4002.13	24.31	-43.13	-24.16	49.43	209.26	0.44	168.16M
	4033.00	2.61	168.16	4032.10	24.01	-44.48	-23.85	50.47	208.20	0.44	161.91M
	4063.00	2.71	161.91	4062.07	23.65	-45.83	-23.49	51.50	207.14	1.02	154.09M
	4093.00	2.90	154.09	4092.03	23.11	-47.18	-22.94	52.46	205.93	1.42	152.63M
	4123.00	3.08	152.63	4121.99	22.41	-48.58	-22.24	53.43	204.60	0.65	153.90M
	4153.00	3.22	153.90	4151.94	21.67	-50.05	-21.50	54.47	203.24	0.52	153.92M
	4183.00	3.32	153.92	4181.90	20.92	-51.59	-20.74	55.60	201.91	0.33	152.95M
	4213.00	3.38	152.95	4211.84	20.15	-53.16	-19.96	56.78	200.58	0.28	151.62M
	4243.00	3.45	151.62	4241.79	19.32	-54.74	-19.13	57.99	199.26	0.35	149.88M
	4273.00	3.52	149.88	4271.74	18.44	-56.33	-18.24	59.21	197.94	0.42	147.85M
	4303.00	3.56	147.85	4301.68	17.48	-57.92	-17.28	60.44	196.61	0.44	145.29M
	4333.00	3.56	145.29	4331.62	16.46	-59.47	-16.25	61.65	195.29	0.53	142.73M
	4363.00	3.57	142.73	4361.56	15.37	-60.98	-15.16	62.83	193.96	0.53	141.28M



Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (deg)	DLS (deg/100 ft)	Tool Face (deg)
	4393.00	3.56	141.28	4391.50	14.23	-62.45	-14.01	64.00	192.64	0.30	142.78M
	4423.00	3.53	142.78	4421.45	13.09	-63.91	-12.87	65.19	191.38	0.32	143.63M
	4453.00	3.53	143.63	4451.39	11.99	-65.39	-11.76	66.44	190.20	0.17	143.34M
	4483.00	3.50	143.34	4481.33	10.90	-66.87	-10.67	67.71	189.06	0.12	142.32M
	4513.00	3.53	142.32	4511.28	9.80	-68.33	-9.56	69.00	187.96	0.23	141.94M
	4543.00	3.55	141.94	4541.22	8.66	-69.80	-8.42	70.30	186.88	0.10	141.57M
	4573.00	3.57	141.57	4571.16	7.52	-71.26	-7.27	71.63	185.82	0.10	141.54M
Tie-In	4603.00	3.56	141.54	4601.10	6.36	-72.72	-6.11	72.98	184.80	0.03	142.97M
	4633.00	3.53	142.97	4631.05	5.23	-74.19	-4.97	74.35	183.83	0.31	122.29M
	4646.00	2.89	122.29	4644.03	4.71	-74.68	-4.45	74.81	183.41	10.10	114.91M
	4648.00	2.98	114.91	4646.02	4.62	-74.73	-4.36	74.86	183.34	19.41	114.41M
	4649.00	2.94	114.41	4647.02	4.58	-74.75	-4.32	74.88	183.31	4.76	111.57M
	4650.00	3.08	111.57	4648.02	4.53	-74.77	-4.27	74.89	183.27	20.45	114.58M
	4651.00	3.10	114.58	4649.02	4.48	-74.79	-4.22	74.91	183.23	16.35	111.54M
	4652.00	2.87	111.54	4650.02	4.43	-74.81	-4.17	74.93	183.19	27.91	108.69M
	4653.00	2.87	108.69	4651.02	4.39	-74.83	-4.12	74.94	183.15	14.27	108.87M
	4654.00	2.87	108.87	4652.02	4.34	-74.85	-4.08	74.96	183.12	0.90	108.89M
	4655.00	2.87	108.89	4653.01	4.29	-74.86	-4.03	74.97	183.08	0.10	105.16M
	4656.00	2.83	105.16	4654.01	4.24	-74.88	-3.98	74.98	183.04	18.97	31.77M
	4667.00	2.51	31.77	4665.00	3.85	-74.74	-3.59	74.83	182.75	29.10	-9.05M
	4682.00	3.70	350.95	4679.98	3.75	-73.99	-3.50	74.07	182.71	16.23	-13.05M
	4691.00	5.14	346.95	4688.96	3.89	-73.31	-3.63	73.40	182.84	16.35	0.00G
	4700.00	6.40	346.95	4697.91	4.09	-72.43	-3.84	72.53	183.03	14.00	-16.56G
	4727.00	11.10	339.81	4724.59	5.31	-68.52	-5.07	68.71	184.24	17.83	-27.39G
	4756.00	12.60	336.30	4752.97	7.53	-63.00	-7.31	63.42	186.62	5.74	-120.91G
	4788.00	11.50	325.30	4784.27	10.73	-57.18	-10.53	58.14	190.43	7.94	-100.17G
	4818.00	11.40	307.90	4813.68	14.76	-52.90	-14.57	54.87	195.40	11.48	-100.69G
	4849.00	11.20	296.40	4844.08	19.86	-49.68	-19.69	53.44	201.62	7.29	-79.87G
	4883.00	11.90	284.30	4877.40	26.21	-47.35	-26.04	54.04	208.81	7.40	-90.00G
	4915.00	11.90	270.80	4908.72	32.70	-46.48	-32.54	56.74	214.99	8.68	-97.56G
	4949.00	11.80	261.40	4942.00	39.65	-46.96	-39.48	61.35	220.06	5.68	-125.85G
	4977.00	11.60	260.00	4969.42	45.25	-47.87	-45.09	65.76	223.28	1.24	-147.00G
	5014.00	11.30	259.00	5005.68	52.48	-49.21	-52.31	71.82	226.75	0.97	-166.71G
	5044.00	10.90	258.50	5035.12	58.15	-50.34	-57.97	76.78	229.03	1.37	18.63G
	5074.00	13.40	262.10	5064.44	64.38	-51.38	-64.20	82.23	231.33	8.70	8.63G
	5108.00	19.00	264.70	5097.08	73.80	-52.43	-73.62	90.38	234.54	16.60	14.54G
	5135.00	21.40	266.40	5122.42	83.10	-53.15	-82.91	98.48	237.34	9.15	11.52G
	5170.00	24.00	267.70	5154.71	96.59	-53.84	-96.40	110.41	240.82	7.57	2.95G
	5201.00	27.60	268.10	5182.61	110.07	-54.33	-109.88	122.58	243.69	11.63	-3.93G
	5238.00	31.40	267.60	5214.81	128.27	-55.01	-128.08	139.40	246.76	10.29	-43.74G
	5266.00	32.60	265.50	5238.55	143.09	-55.91	-142.89	153.44	248.63	5.84	-25.35G
	5300.00	33.90	264.40	5266.99	161.66	-57.56	-161.46	171.41	250.38	4.21	-33.08G
	5329.00	34.60	263.60	5290.96	177.90	-59.26	-177.69	187.31	251.56	2.87	-4.67G
	5369.00	36.80	263.30	5323.44	201.09	-61.93	-200.88	210.21	252.87	5.52	-1.64G
	5392.00	39.00	263.20	5341.59	215.13	-63.59	-214.91	224.12	253.52	9.57	13.49G
	5417.00	41.20	264.00	5360.71	231.14	-65.38	-230.91	239.99	254.19	9.04	22.17G
	5458.00	43.40	265.30	5391.03	258.62	-67.95	-258.38	267.17	255.27	5.77	25.14G
	5492.00	44.60	266.10	5415.49	282.17	-69.72	-281.93	290.42	256.11	3.89	6.81G
	5519.00	47.70	266.60	5434.19	301.61	-70.95	-301.36	309.60	256.75	11.56	9.40G
	5552.00	52.50	267.60	5455.36	326.89	-72.22	-326.64	334.53	257.53	14.73	15.90G
	5584.00	56.00	268.80	5474.05	352.84	-73.03	-352.59	360.08	258.30	11.35	0.00G
	5615.00	57.00	268.80	5491.16	378.69	-73.58	-378.43	385.52	259.00	3.23	13.09G
	5647.00	59.60	269.50	5507.97	405.91	-73.98	-405.66	412.35	259.66	8.34	11.14G
	5678.00	62.30	270.10	5523.02	433.01	-74.07	-432.75	439.05	260.29	8.87	23.13G



Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (deg)	DLS (deg/100 ft)	Tool Face (deg)
	5712.00	64.20	271.00	5538.33	463.37	-73.78	-463.11	468.95	260.95	6.07	-15.92G
	5743.00	65.80	270.50	5551.43	491.46	-73.41	-491.20	496.66	261.50	5.36	4.46G
	5775.00	69.40	270.80	5563.62	521.03	-73.07	-520.78	525.88	262.01	11.28	8.95G
	5807.00	74.30	271.60	5573.59	551.42	-72.43	-551.17	555.91	262.51	15.50	13.58G
	5836.00	75.10	271.80	5581.24	579.38	-71.60	-579.13	583.54	262.95	2.84	-38.95G
	5868.00	75.70	271.30	5589.30	610.33	-70.77	-610.09	614.18	263.38	2.41	6.70G
	5898.00	78.20	271.60	5596.08	639.54	-70.03	-639.30	643.12	263.75	8.39	23.49G
	5932.00	80.70	272.70	5602.30	672.94	-68.77	-672.70	676.21	264.16	8.01	9.40G
	5963.00	83.10	273.10	5606.67	703.58	-67.22	-703.35	706.55	264.54	7.85	-10.27G
	5995.00	85.30	272.70	5609.90	735.37	-65.61	-735.14	738.06	264.90	6.99	71.52G
	6027.00	85.40	273.00	5612.50	767.22	-64.02	-767.00	769.66	265.23	0.99	-5.19G
	6058.00	86.50	272.90	5614.69	798.09	-62.43	-797.88	800.32	265.53	3.56	10.01G
	6090.00	88.20	273.20	5616.17	830.00	-60.73	-829.80	832.02	265.81	5.39	-26.56G
	6122.00	88.60	273.00	5617.06	861.94	-59.00	-861.74	863.76	266.08	1.40	7.43G
	6153.00	90.90	273.30	5617.20	892.88	-57.30	-892.69	894.53	266.33	7.48	20.55G
	6185.00	91.70	273.60	5616.47	924.81	-55.37	-924.62	926.28	266.57	2.67	-167.00G
	6218.00	89.10	273.00	5616.24	957.74	-53.47	-957.56	959.06	266.80	8.09	-167.75G
	6248.00	86.80	272.50	5617.31	987.68	-52.03	-987.51	988.88	266.98	7.85	-48.36G
	6281.00	87.60	271.60	5618.92	1020.62	-50.85	-1020.45	1021.71	267.15	3.65	-4.76G
	6312.00	88.80	271.50	5619.90	1051.59	-50.02	-1051.42	1052.61	267.28	3.88	56.31G
	6345.00	89.00	271.80	5620.53	1084.56	-49.07	-1084.40	1085.51	267.41	1.09	-56.31G
	6375.00	89.40	271.20	5620.95	1114.55	-48.28	-1114.39	1115.43	267.52	2.40	-116.57G
	6407.00	89.20	270.80	5621.34	1146.54	-47.72	-1146.38	1147.37	267.62	1.40	26.57G
	6439.00	89.60	271.00	5621.68	1178.53	-47.22	-1178.37	1179.32	267.71	1.40	-131.19G
	6471.00	88.90	270.20	5622.10	1210.52	-46.89	-1210.37	1211.28	267.78	3.32	98.14G
	6503.00	88.80	270.90	5622.74	1242.52	-46.58	-1242.36	1243.23	267.85	2.21	-127.90G
	6535.00	88.10	270.00	5623.60	1274.50	-46.33	-1274.35	1275.19	267.92	3.56	-90.00G
	6566.00	88.10	269.60	5624.63	1305.48	-46.44	-1305.33	1306.16	267.96	1.29	-6.34G
	6598.00	89.00	269.50	5625.44	1337.47	-46.69	-1337.32	1338.13	268.00	2.83	0.00G
	6630.00	90.00	269.50	5625.72	1369.47	-46.97	-1369.32	1370.12	268.04	3.12	36.87G
	6662.00	90.40	269.80	5625.61	1401.47	-47.16	-1401.31	1402.11	268.07	1.56	63.43G
	6695.00	90.60	270.20	5625.32	1434.47	-47.16	-1434.31	1435.09	268.12	1.36	-155.22G
	6727.00	89.30	269.60	5625.35	1466.47	-47.22	-1466.31	1467.07	268.16	4.47	-171.87G
	6759.00	88.60	269.50	5625.93	1498.46	-47.47	-1498.31	1499.06	268.19	2.21	-90.00G
	6791.00	88.60	269.30	5626.72	1530.45	-47.80	-1530.29	1531.04	268.21	0.62	-90.00G
	6821.00	88.60	268.80	5627.45	1560.44	-48.30	-1560.28	1561.03	268.23	1.67	-68.20G
	6853.00	88.80	268.30	5628.18	1592.42	-49.11	-1592.26	1593.02	268.23	1.68	51.34G
	6916.00	89.20	268.80	5629.27	1655.40	-50.70	-1655.23	1656.01	268.25	1.02	180.00G
	6948.00	88.90	268.80	5629.81	1687.39	-51.37	-1687.22	1688.00	268.26	0.94	68.20G
	6979.00	89.10	269.30	5630.35	1718.38	-51.89	-1718.21	1719.00	268.27	1.74	90.00G
	7011.00	89.10	270.50	5630.85	1750.38	-51.94	-1750.21	1750.98	268.30	3.75	-5.71G
	7044.00	90.10	270.40	5631.08	1783.37	-51.68	-1783.21	1783.95	268.34	3.05	0.00G
	7075.00	90.60	270.40	5630.89	1814.37	-51.47	-1814.20	1814.93	268.37	1.61	45.00G
	7106.00	90.70	270.50	5630.54	1845.37	-51.22	-1845.20	1845.91	268.41	0.46	-146.31G
	7138.00	89.50	269.70	5630.48	1877.37	-51.17	-1877.20	1877.90	268.44	4.51	-45.00G
	7170.00	89.60	269.60	5630.73	1909.37	-51.36	-1909.20	1909.89	268.46	0.44	-18.44G
	7201.00	89.90	269.50	5630.87	1940.37	-51.61	-1940.20	1940.88	268.48	1.02	50.19G
	7233.00	90.40	270.10	5630.79	1972.37	-51.72	-1972.20	1972.87	268.50	2.44	135.00G
	7266.00	90.20	270.30	5630.61	2005.36	-51.60	-2005.20	2005.86	268.53	0.86	-131.99G
	7297.00	89.30	269.30	5630.75	2036.36	-51.71	-2036.19	2036.85	268.55	4.34	-135.01G
	7329.00	89.00	269.00	5631.22	2068.36	-52.19	-2068.19	2068.85	268.55	1.33	0.00G
	7361.00	89.10	269.00	5631.75	2100.35	-52.75	-2100.18	2100.84	268.56	0.31	-36.87G
	7392.00	89.50	268.70	5632.13	2131.34	-53.37	-2131.17	2131.84	268.57	1.61	-116.57G
	7426.00	89.20	268.10	5632.52	2165.33	-54.32	-2165.15	2165.84	268.56	1.97	-119.07G
	7455.00	88.70	267.20	5633.05	2194.30	-55.51	-2194.12	2194.83	268.55	3.55	-165.97G

**CONFIDENTIAL**

Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (deg)	DLS (deg/100 ft)	Tool Face (deg)
	7486.00	88.30	267.10	5633.86	2225.26	-57.05	-2225.08	2225.81	268.53	1.33	-63.43G
	7519.00	88.40	266.90	5634.81	2258.21	-58.77	-2258.02	2258.78	268.51	0.68	48.82G
	7552.00	89.10	267.70	5635.53	2291.17	-60.33	-2290.97	2291.77	268.49	3.22	71.56G
	7584.00	89.20	268.00	5636.01	2323.15	-61.53	-2322.95	2323.76	268.48	0.99	99.47G
	7614.00	89.10	268.60	5636.45	2353.13	-62.42	-2352.93	2353.76	268.48	2.03	108.44G
	7645.00	89.00	268.90	5636.96	2384.12	-63.09	-2383.92	2384.75	268.48	1.02	63.44G
	7677.00	89.10	269.10	5637.49	2416.12	-63.65	-2415.91	2416.75	268.49	0.70	-18.44G
	7708.00	89.40	269.00	5637.90	2447.11	-64.17	-2446.90	2447.74	268.50	1.02	9.46G
	7740.00	90.00	269.10	5638.07	2479.11	-64.70	-2478.90	2479.74	268.50	1.90	-33.69G
	7771.00	90.30	268.90	5637.99	2510.10	-65.24	-2509.89	2510.74	268.51	1.16	123.69G
	7803.00	90.10	269.20	5637.88	2542.10	-65.77	-2541.89	2542.74	268.52	1.13	180.00G
	7835.00	89.80	269.20	5637.90	2574.10	-66.21	-2573.88	2574.73	268.53	0.94	56.31G
	7867.00	90.00	269.50	5637.96	2606.10	-66.58	-2605.88	2606.73	268.54	1.13	167.47G
	7898.00	89.10	269.70	5638.20	2637.10	-66.79	-2636.88	2637.72	268.55	2.97	-153.44G
	7930.00	88.70	269.50	5638.82	2669.09	-67.02	-2668.87	2669.71	268.56	1.40	90.00G
	7962.00	88.70	269.60	5639.54	2701.08	-67.27	-2700.86	2701.70	268.57	0.31	90.00G
	7993.00	88.70	270.00	5640.25	2732.07	-67.38	-2731.85	2732.69	268.59	1.29	135.01G
	8027.00	88.50	270.20	5641.08	2766.06	-67.32	-2765.84	2766.66	268.61	0.83	74.06G
	8057.00	88.70	270.90	5641.81	2796.05	-67.03	-2795.83	2796.64	268.63	2.43	44.99G
	8087.00	88.80	271.00	5642.46	2826.04	-66.53	-2825.82	2826.61	268.65	0.47	135.01G
	8118.00	88.70	271.10	5643.14	2857.02	-65.96	-2856.81	2857.57	268.68	0.46	90.00G
	8150.00	88.70	271.70	5643.87	2889.00	-65.18	-2888.79	2889.53	268.71	1.87	33.69G
	8182.00	89.30	272.10	5644.42	2920.98	-64.12	-2920.77	2921.47	268.74	2.25	32.01G
	8213.00	90.10	272.60	5644.59	2951.94	-62.85	-2951.74	2952.41	268.78	3.04	-11.31G
	8242.00	90.60	272.50	5644.41	2980.91	-61.56	-2980.71	2981.35	268.82	1.76	-168.69G
	8277.00	90.10	272.40	5644.20	3015.87	-60.06	-3015.68	3016.28	268.86	1.46	123.69G
	8308.00	89.90	272.70	5644.20	3046.84	-58.69	-3046.65	3047.21	268.90	1.16	-159.44G
	8340.00	89.10	272.40	5644.48	3078.80	-57.26	-3078.62	3079.15	268.93	2.67	-158.21G
	8372.00	88.60	272.20	5645.12	3110.76	-55.98	-3110.58	3111.09	268.97	1.68	-161.57G
	8404.00	88.00	272.00	5646.07	3142.72	-54.81	-3142.55	3143.03	269.00	1.98	135.02G
	8436.00	87.90	272.10	5647.21	3174.68	-53.66	-3174.51	3174.96	269.03	0.44	-111.83G
	8455.00	87.70	271.60	5647.94	3193.65	-53.05	-3193.48	3193.92	269.05	2.83	0.00G
	8487.00	87.80	271.60	5649.20	3225.61	-52.16	-3225.45	3225.87	269.07	0.31	180.00G
	8519.00	87.70	271.60	5650.45	3257.57	-51.26	-3257.41	3257.81	269.10	0.31	-36.86G
	8551.00	88.10	271.30	5651.63	3289.53	-50.45	-3289.38	3289.76	269.12	1.56	-71.56G
	8583.00	88.20	271.00	5652.66	3321.51	-49.81	-3321.35	3321.73	269.14	0.99	11.31G
	8615.00	89.70	271.30	5653.25	3353.49	-49.17	-3353.34	3353.70	269.16	4.78	23.63G
	8646.00	91.30	272.00	5652.98	3384.47	-48.28	-3384.33	3384.67	269.18	5.63	41.61G
	8679.00	92.20	272.80	5651.97	3417.42	-46.90	-3417.28	3417.60	269.21	3.65	173.29G
	8711.00	90.50	273.00	5651.21	3449.37	-45.28	-3449.23	3449.53	269.25	5.35	161.56G
	8743.00	89.90	273.20	5651.10	3481.31	-43.55	-3481.18	3481.46	269.28	1.98	180.00G
	8775.00	89.80	273.20	5651.19	3513.26	-41.76	-3513.13	3513.38	269.32	0.31	75.96G
	8807.00	89.90	273.60	5651.27	3545.19	-39.86	-3545.08	3545.30	269.36	1.29	-123.69G
	8839.00	89.30	272.70	5651.49	3577.14	-38.10	-3577.03	3577.23	269.39	3.38	-122.48G
	8872.00	88.60	271.60	5652.10	3610.10	-36.87	-3610.00	3610.19	269.41	3.95	135.01G
	8902.00	88.50	271.70	5652.86	3640.08	-36.00	-3639.98	3640.15	269.43	0.47	90.00G
	8934.00	88.50	271.80	5653.69	3672.05	-35.03	-3671.95	3672.12	269.45	0.31	6.34G
	8966.00	89.40	271.90	5654.28	3704.02	-33.99	-3703.93	3704.08	269.47	2.83	111.81G
	8998.00	89.20	272.40	5654.67	3735.99	-32.79	-3735.90	3736.05	269.50	1.68	104.04G
	9030.00	89.10	272.80	5655.15	3767.95	-31.34	-3767.87	3768.00	269.52	1.29	75.97G
	9062.00	89.20	273.20	5655.62	3799.90	-29.67	-3799.82	3799.93	269.55	1.29	135.01G
	9094.00	89.10	273.30	5656.10	3831.84	-27.85	-3831.76	3831.86	269.58	0.44	-135.01G
	9126.00	88.80	273.00	5656.68	3863.78	-26.10	-3863.71	3863.80	269.61	1.33	75.97G
	9158.00	88.90	273.40	5657.32	3895.71	-24.31	-3895.65	3895.73	269.64	1.29	101.32G



Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (deg)	DLS (deg/100 ft)	Tool Face (deg)
	9190.00	88.80	273.90	5657.97	3927.64	-22.27	-3927.58	3927.64	269.68	1.59	-144.48G
	9222.00	88.10	273.40	5658.83	3959.55	-20.24	-3959.50	3959.56	269.71	2.69	-10.30G
	9254.00	89.20	273.20	5659.59	3991.48	-18.39	-3991.44	3991.48	269.74	3.49	0.00G
Last Survey	9278.00	89.40	273.20	5659.88	4015.44	-17.06	-4015.40	4015.44	269.76	0.83	0.00G

**Survey Type:** Non-Def Survey

**Survey Error Model:** SLB ISCWSA version 22 \*\*\* 3-D 95.00% Confidence 2.7955 sigma

**Surveying Prog:**

**MD From (ft)**

-44.00  
0.00  
4633.00  
4727.00

**MD To (ft)**

0.00  
4633.00  
4727.00  
9278.00

**EOU Freq**

Act-Stns  
Act-Stns  
Act-Stns  
Act-Stns

**Survey Tool Type**

SLB\_CNSG+DPIPE  
SLB\_CNSG+DPIPE  
SLB\_CNSG+DPIPE  
SLB\_MWD-STD

**Borehole -> Survey**

Lateral1 - ST1 -> SSU 2G-3-8-21 Lat1 - ST1 - Scientific Def. ( )  
Lateral1 - ST1 -> SSU 2G-3-8-21 Lat1 - ST1 - Scientific Def. ( )  
Lateral1 - ST2 -> SSU 2G-3-8-21 Lat1 - ST2 Field Survey  
Lateral1 - ST2 -> SSU 2G-3-8-21 Lat1 - ST2 Field Survey

**CONFIDENTIAL**

# SSU 2G-3-8-21 Lat2 Field Survey Survey Report

Report Date: December 14, 2010 Client: QEP ENERGY Field: Uinta Structure / Slot: Sturip South Unit / SSU 2G-3-8-21 Well: SSU 2G-3-8-21 Borehole: Lateral 2 UWI/API#: Survey Name / Date: SSU 2G-3-8-21 Lat2 Field Survey / September 20, 2010 Tort / AHD / DDI / ERD ratio: 182.443° / 3682.05 ft / 6.027 / 0.659 Grid Coordinate System: NAD83 Utah State Planes, Northern Zone, US Feet Location Lat/Long: N 40 9 27.530, W 109 32 19.390 Location Grid N/E Y/X: N 3223010.812 ftUS, E 2188657.869 ftUS Grid Convergence Angle: +1.29318109° Grid Scale Factor: 1.00013714	Survey / DLS Computation Method: Minimum Curvature / Lubinski Vertical Section Azimuth: 110.280° Vertical Section Origin: N 0.000 ft, E 0.000 ft TVD Reference Datum: KB TVD Reference Elevation: 4756.0 ft relative to MSL Sea Bed / Ground Level Elevation: 4800.000 ft relative to MSL Magnetic Declination: 11.780° Total Field Strength: 52947.878 nT Magnetic Dip: 66.129° Declination Date: September 20, 2010 Magnetic Declination Model: IGRF 2005 North Reference: True North Total Corr Mag North -> True North: +11.780° Local Coordinates Referenced To: Well Head
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Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (deg)	DLS (deg/100 ft)	Tool Face (deg)
Tie-In	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.47M
	43.00	0.24	9.47	43.00	-0.02	0.09	0.01	0.09	9.47	0.56	6.54M
	73.00	0.32	6.54	73.00	-0.05	0.23	0.03	0.24	8.43	0.27	4.83M
	103.00	0.41	4.83	103.00	-0.10	0.42	0.05	0.43	7.16	0.30	6.93M
	133.00	0.39	6.93	133.00	-0.15	0.63	0.07	0.64	6.73	0.08	9.62M
	163.00	0.36	9.62	163.00	-0.19	0.83	0.10	0.83	7.08	0.12	10.64M
	193.00	0.27	10.64	193.00	-0.22	0.99	0.13	1.00	7.57	0.30	12.27M
	223.00	0.16	12.27	223.00	-0.24	1.10	0.15	1.11	7.94	0.37	16.51M
	253.00	0.17	16.51	253.00	-0.25	1.18	0.18	1.20	8.41	0.05	19.73M
	283.00	0.20	19.73	283.00	-0.25	1.28	0.21	1.29	9.15	0.11	22.03M
	313.00	0.18	22.03	313.00	-0.25	1.37	0.24	1.39	9.98	0.07	25.06M
	343.00	0.15	25.06	343.00	-0.24	1.45	0.27	1.47	10.76	0.10	28.18M
	373.00	0.14	28.18	373.00	-0.24	1.52	0.31	1.55	11.52	0.04	31.34M
	403.00	0.13	31.34	403.00	-0.22	1.58	0.34	1.61	12.31	0.04	36.00M
	433.00	0.12	36.00	433.00	-0.21	1.63	0.38	1.67	13.12	0.05	42.32M
	463.00	0.11	42.32	463.00	-0.19	1.68	0.42	1.73	13.99	0.05	46.37M
	493.00	0.08	46.37	493.00	-0.17	1.71	0.45	1.77	14.79	0.10	50.54M
	523.00	0.05	50.54	523.00	-0.15	1.74	0.48	1.80	15.38	0.10	134.76M
	553.00	0.01	134.76	553.00	-0.14	1.74	0.49	1.81	15.70	0.17	-138.77M
	583.00	0.07	221.23	583.00	-0.15	1.73	0.48	1.79	15.52	0.23	-135.32M
	613.00	0.12	224.68	613.00	-0.17	1.69	0.45	1.75	14.75	0.17	-132.82M
	643.00	0.15	227.18	643.00	-0.20	1.64	0.39	1.69	13.51	0.10	-128.39M
	673.00	0.17	231.61	673.00	-0.24	1.59	0.33	1.62	11.77	0.08	-121.73M
	703.00	0.18	238.27	703.00	-0.29	1.54	0.26	1.56	9.46	0.08	-122.46M
	733.00	0.20	237.54	733.00	-0.35	1.48	0.17	1.49	6.60	0.07	-130.24M
	763.00	0.24	229.76	763.00	-0.42	1.41	0.08	1.42	3.21	0.17	-134.52M
	793.00	0.29	225.48	792.99	-0.48	1.32	-0.02	1.32	359.02	0.18	-135.89M
	823.00	0.36	224.11	822.99	-0.55	1.20	-0.14	1.21	353.23	0.23	-135.95M
	853.00	0.44	224.05	852.99	-0.63	1.05	-0.29	1.09	344.64	0.27	-134.93M
	883.00	0.53	225.07	882.99	-0.74	0.87	-0.47	0.99	331.74	0.30	-131.67M
	913.00	0.60	228.33	912.99	-0.87	0.67	-0.68	0.95	314.29	0.26	-123.92M
	943.00	0.64	236.08	942.99	-1.04	0.47	-0.94	1.05	296.48	0.31	-120.25M
	973.00	0.68	239.75	972.99	-1.25	0.28	-1.23	1.26	283.00	0.19	-124.05M
	1003.00	0.70	235.95	1002.99	-1.47	0.09	-1.54	1.54	273.42	0.17	-127.58M
	1033.00	0.73	232.42	1032.98	-1.68	-0.13	-1.84	1.84	266.04	0.18	-130.85M
	1063.00	0.76	229.15	1062.98	-1.88	-0.37	-2.14	2.17	260.10	0.17	-133.18M
	1093.00	0.78	226.82	1092.98	-2.07	-0.64	-2.44	2.52	255.23	0.12	-131.94M
	1123.00	0.74	228.06	1122.97	-2.25	-0.91	-2.73	2.88	251.54	0.14	-130.56M

Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (deg)	DLS (deg/100 ft)	Tool Face (deg)
	1153.00	0.70	229.44	1152.97	-2.43	-1.16	-3.02	3.23	248.95	0.15	-129.03M
	1183.00	0.66	230.97	1182.97	-2.61	-1.39	-3.29	3.57	247.11	0.15	-128.28M
	1213.00	0.63	231.72	1212.97	-2.78	-1.60	-3.55	3.90	245.76	0.10	-140.43M
	1243.00	0.67	219.57	1242.97	-2.92	-1.84	-3.80	4.22	244.17	0.48	-150.27M
	1273.00	0.73	209.73	1272.96	-3.01	-2.14	-4.00	4.54	241.88	0.45	-140.95M
	1303.00	0.68	219.05	1302.96	-3.10	-2.44	-4.21	4.87	239.87	0.42	-130.53M
	1333.00	0.65	229.47	1332.96	-3.24	-2.69	-4.45	5.20	238.83	0.41	-128.41M
	1363.00	0.70	231.59	1362.96	-3.42	-2.92	-4.72	5.55	238.31	0.19	-127.11M
	1393.00	0.75	232.89	1392.96	-3.62	-3.15	-5.02	5.93	237.92	0.18	-124.08M
	1423.00	0.78	235.92	1422.95	-3.85	-3.38	-5.35	6.33	237.70	0.17	-121.00M
	1453.00	0.82	239.00	1452.95	-4.10	-3.61	-5.70	6.75	237.69	0.20	-120.30M
	1483.00	0.89	239.70	1482.95	-4.38	-3.83	-6.09	7.20	237.79	0.24	-120.16M
	1513.00	0.96	239.84	1512.94	-4.69	-4.08	-6.51	7.68	237.92	0.23	-120.05M
	1543.00	1.04	239.95	1542.94	-5.02	-4.34	-6.96	8.20	238.04	0.27	-119.95M
	1573.00	1.12	240.05	1572.93	-5.38	-4.62	-7.45	8.77	238.17	0.27	-122.69M
	1603.00	1.15	237.31	1602.93	-5.75	-4.93	-7.96	9.36	238.20	0.21	-127.31M
	1633.00	1.15	232.69	1632.92	-6.10	-5.28	-8.45	9.96	238.01	0.31	-128.55M
	1663.00	1.11	231.45	1662.92	-6.41	-5.64	-8.92	10.55	237.68	0.16	-126.20M
	1693.00	1.04	233.80	1692.91	-6.71	-5.98	-9.36	11.11	237.42	0.28	-123.47M
	1723.00	0.96	236.53	1722.91	-7.01	-6.28	-9.79	11.63	237.32	0.31	-120.28M
	1753.00	0.89	239.72	1752.90	-7.30	-6.54	-10.20	12.12	237.35	0.29	-116.90M
	1783.00	0.82	243.10	1782.90	-7.60	-6.75	-10.60	12.57	237.49	0.29	-113.92M
	1813.00	0.78	246.08	1812.90	-7.89	-6.93	-10.97	12.98	237.72	0.19	-110.83M
	1843.00	0.73	249.17	1842.89	-8.18	-7.08	-11.34	13.37	238.00	0.21	-108.58M
	1873.00	0.67	251.42	1872.89	-8.46	-7.21	-11.68	13.73	238.33	0.22	-106.07M
	1903.00	0.62	253.93	1902.89	-8.73	-7.31	-12.01	14.06	238.67	0.19	-107.40M
	1933.00	0.59	252.60	1932.89	-8.98	-7.40	-12.31	14.36	238.99	0.11	-108.85M
	1963.00	0.57	251.15	1962.89	-9.22	-7.49	-12.60	14.66	239.25	0.08	-113.37M
	1993.00	0.58	246.63	1992.88	-9.45	-7.60	-12.88	14.96	239.45	0.15	-117.88M
	2023.00	0.60	242.12	2022.88	-9.66	-7.74	-13.16	15.26	239.54	0.17	-119.42M
	2053.00	0.60	240.58	2052.88	-9.87	-7.89	-13.43	15.58	239.58	0.05	-120.51M
	2083.00	0.61	239.49	2082.88	-10.07	-8.05	-13.71	15.89	239.59	0.05	-122.31M
	2113.00	0.62	237.69	2112.88	-10.27	-8.21	-13.98	16.22	239.57	0.07	-124.27M
	2143.00	0.63	235.73	2142.88	-10.46	-8.39	-14.26	16.54	239.51	0.08	-121.25M
	2173.00	0.62	238.75	2172.87	-10.66	-8.57	-14.53	16.87	239.47	0.11	-115.12M
	2203.00	0.61	244.88	2202.87	-10.87	-8.72	-14.81	17.19	239.51	0.22	-108.80M
	2233.00	0.60	251.20	2232.87	-11.11	-8.84	-15.11	17.50	239.67	0.22	-102.42M
	2263.00	0.61	257.58	2262.87	-11.36	-8.93	-15.41	17.81	239.92	0.23	-97.16M
	2293.00	0.60	262.84	2292.87	-11.64	-8.98	-15.72	18.11	240.27	0.19	-92.90M
	2323.00	0.58	267.10	2322.87	-11.92	-9.01	-16.03	18.39	240.67	0.16	-89.69M
	2353.00	0.58	270.31	2352.86	-12.20	-9.01	-16.33	18.66	241.11	0.11	-88.72M
	2383.00	0.61	271.28	2382.86	-12.49	-9.01	-16.65	18.93	241.58	0.11	-86.09M
	2413.00	0.63	273.91	2412.86	-12.80	-8.99	-16.97	19.21	242.08	0.12	-79.16M
	2443.00	0.67	280.84	2442.86	-13.13	-8.95	-17.31	19.48	242.66	0.29	-75.11M
	2473.00	0.71	284.89	2472.86	-13.49	-8.87	-17.66	19.76	243.33	0.21	-81.62M
	2503.00	0.75	278.38	2502.85	-13.87	-8.79	-18.03	20.06	244.01	0.31	-87.10M
	2533.00	0.79	272.90	2532.85	-14.26	-8.75	-18.43	20.41	244.60	0.28	-88.21M
	2563.00	0.79	271.79	2562.85	-14.65	-8.74	-18.85	20.77	245.13	0.05	-89.32M
	2593.00	0.79	270.68	2592.85	-15.04	-8.73	-19.26	21.15	245.62	0.05	-99.34M
	2623.00	0.78	260.66	2622.84	-15.41	-8.76	-19.67	21.53	246.00	0.46	-109.75M
	2653.00	0.79	250.25	2652.84	-15.75	-8.86	-20.07	21.93	246.17	0.48	-110.50M
	2683.00	0.77	249.50	2682.84	-16.06	-9.00	-20.45	22.34	246.24	0.07	-109.30M
	2713.00	0.74	250.70	2712.83	-16.36	-9.14	-20.82	22.74	246.31	0.11	-106.96M
	2743.00	0.66	253.04	2742.83	-16.65	-9.25	-21.17	23.10	246.39	0.28	-103.38M

Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (deg)	DLS (deg/100 ft)	Tool Face (deg)
	2773.00	0.56	256.62	2772.83	-16.91	-9.34	-21.48	23.42	246.51	0.36	-112.67M
	2803.00	0.58	247.33	2802.83	-17.14	-9.43	-21.76	23.71	246.57	0.31	-125.77M
	2833.00	0.69	234.23	2832.83	-17.35	-9.59	-22.05	24.04	246.49	0.60	-130.34M
	2863.00	0.75	229.66	2862.82	-17.55	-9.82	-22.34	24.41	246.26	0.28	-130.79M
	2893.00	0.75	229.21	2892.82	-17.74	-10.08	-22.64	24.78	246.00	0.02	-139.14M
	2923.00	0.73	220.86	2922.82	-17.90	-10.35	-22.91	25.14	245.69	0.37	-158.17M
	2953.00	0.74	201.83	2952.82	-17.98	-10.68	-23.11	25.46	245.20	0.81	-163.61M
	2983.00	0.84	196.39	2982.81	-17.97	-11.07	-23.24	25.75	244.54	0.42	-151.51M
	3013.00	0.98	208.49	3012.81	-17.99	-11.50	-23.43	26.10	243.85	0.79	-143.66M
	3043.00	1.08	216.34	3042.81	-18.10	-11.96	-23.72	26.56	243.25	0.58	-138.42M
	3073.00	0.98	221.58	3072.80	-18.28	-12.38	-24.06	27.05	242.77	0.46	-133.53M
	3103.00	0.91	226.47	3102.80	-18.47	-12.73	-24.40	27.52	242.44	0.36	-135.73M
	3133.00	0.98	224.27	3132.79	-18.68	-13.08	-24.75	28.00	242.14	0.26	-137.94M
	3163.00	1.05	222.06	3162.79	-18.89	-13.47	-25.12	28.50	241.80	0.27	-144.09M
	3193.00	1.10	215.91	3192.78	-19.07	-13.91	-25.47	29.02	241.36	0.42	-149.64M
	3223.00	1.17	210.36	3222.78	-19.20	-14.40	-25.79	29.54	240.82	0.43	-154.47M
	3253.00	1.17	205.53	3252.77	-19.28	-14.94	-26.08	30.06	240.19	0.33	-159.22M
	3283.00	1.18	200.78	3282.76	-19.31	-15.51	-26.32	30.55	239.49	0.33	-165.32M
	3313.00	1.09	194.68	3312.76	-19.29	-16.07	-26.50	31.00	238.76	0.50	-172.82M
	3343.00	1.00	187.18	3342.75	-19.20	-16.61	-26.61	31.37	238.02	0.55	-176.69M
	3373.00	1.03	183.31	3372.75	-19.06	-17.14	-26.66	31.69	237.26	0.25	-178.68M
	3403.00	1.10	181.32	3402.74	-18.89	-17.70	-26.68	32.01	236.44	0.26	-175.73M
	3433.00	1.18	184.27	3432.74	-18.71	-18.29	-26.71	32.37	235.59	0.33	-170.94M
	3463.00	1.26	189.06	3462.73	-18.56	-18.93	-26.78	32.79	234.75	0.43	-169.05M
	3493.00	1.44	190.95	3492.72	-18.44	-19.62	-26.91	33.30	233.90	0.62	-169.24M
	3523.00	1.71	190.76	3522.71	-18.30	-20.43	-27.06	33.91	232.95	0.90	-170.00M
	3553.00	1.96	190.00	3552.70	-18.14	-21.38	-27.23	34.62	231.87	0.84	-171.25M
	3583.00	2.19	188.75	3582.68	-17.93	-22.45	-27.41	35.43	230.68	0.78	-172.18M
	3613.00	2.39	187.82	3612.65	-17.68	-23.63	-27.58	36.32	229.41	0.68	-172.87M
	3643.00	2.52	187.13	3642.62	-17.40	-24.91	-27.75	37.29	228.09	0.44	-174.56M
	3673.00	2.66	185.44	3672.59	-17.07	-26.26	-27.90	38.31	226.74	0.53	-178.09M
	3703.00	2.82	181.91	3702.56	-16.66	-27.69	-27.99	39.37	225.31	0.77	178.05M
	3733.00	2.99	178.05	3732.52	-16.13	-29.21	-27.99	40.45	223.78	0.86	172.25M
	3763.00	3.15	172.25	3762.48	-15.44	-30.80	-27.85	41.53	222.11	1.16	167.14M
	3793.00	3.31	167.14	3792.43	-14.58	-32.47	-27.54	42.58	220.31	1.10	162.95M
	3823.00	3.26	162.95	3822.38	-13.59	-34.13	-27.10	43.58	218.45	0.82	158.68M
	3853.00	3.24	158.68	3852.33	-12.51	-35.73	-26.54	44.51	216.61	0.81	160.00M
	3883.00	3.13	160.00	3882.29	-11.42	-37.29	-25.95	45.43	214.84	0.44	161.41M
	3913.00	3.02	161.41	3912.24	-10.39	-38.81	-25.42	46.39	213.23	0.44	162.92M
	3943.00	2.92	162.92	3942.20	-9.44	-40.29	-24.95	47.39	211.76	0.42	164.54M
	3973.00	2.81	164.54	3972.17	-8.54	-41.73	-24.53	48.40	210.44	0.46	166.29M
	4003.00	2.71	166.29	4002.13	-7.72	-43.13	-24.16	49.43	209.26	0.44	168.16M
	4033.00	2.61	168.16	4032.10	-6.96	-44.48	-23.85	50.47	208.20	0.44	161.91M
	4063.00	2.71	161.91	4062.07	-6.15	-45.83	-23.49	51.50	207.14	1.02	154.09M
	4093.00	2.90	154.09	4092.03	-5.16	-47.18	-22.94	52.46	205.93	1.42	152.63M
	4123.00	3.08	152.63	4121.99	-4.02	-48.58	-22.24	53.43	204.60	0.65	153.90M
	4153.00	3.22	153.90	4151.94	-2.82	-50.05	-21.50	54.47	203.24	0.52	153.92M
	4183.00	3.32	153.92	4181.90	-1.58	-51.59	-20.74	55.60	201.91	0.33	152.95M
	4213.00	3.38	152.95	4211.84	-0.30	-53.16	-19.96	56.78	200.58	0.28	151.62M
	4243.00	3.45	151.62	4241.79	1.03	-54.74	-19.13	57.99	199.26	0.35	149.88M
	4273.00	3.52	149.88	4271.74	2.42	-56.33	-18.24	59.21	197.94	0.42	147.85M
	4303.00	3.56	147.85	4301.68	3.86	-57.92	-17.28	60.44	196.61	0.44	145.29M
	4333.00	3.56	145.29	4331.62	5.37	-59.47	-16.25	61.65	195.29	0.53	142.73M
	4363.00	3.57	142.73	4361.56	6.92	-60.98	-15.16	62.83	193.96	0.53	141.28M



Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (deg)	DLS (deg/100 ft)	Tool Face (deg)
Tie-In	4393.00	3.56	141.28	4391.50	8.50	-62.45	-14.01	64.00	192.64	0.30	133.09M
	4421.00	6.61	133.09	4419.39	10.73	-64.23	-12.29	65.39	190.83	11.17	-20.33G
	4441.00	8.71	128.03	4439.21	13.24	-65.95	-10.26	66.74	188.84	11.02	-18.23G
	4470.00	11.40	123.60	4467.76	18.12	-68.89	-6.14	69.16	185.09	9.64	154.59G
	4495.00	11.00	124.60	4492.29	22.83	-71.61	-2.12	71.64	181.69	1.78	-90.00G
	4527.00	11.00	122.90	4523.70	28.77	-75.00	2.96	75.06	177.74	1.01	-128.46G
	4560.00	10.20	116.80	4556.14	34.75	-78.03	8.21	78.46	173.99	4.17	180.00G
	4590.00	9.50	116.80	4585.70	39.85	-80.34	12.79	81.35	170.95	2.33	161.92G
	4623.00	8.80	118.30	4618.28	45.05	-82.77	17.45	84.59	168.10	2.24	170.15G
	4653.00	8.00	119.30	4647.95	49.39	-84.88	21.29	87.51	165.92	2.71	-172.86G
	4685.00	7.20	118.50	4679.67	53.57	-86.92	24.99	90.44	163.96	2.52	143.63G
	4717.00	6.50	123.20	4711.44	57.32	-88.87	28.27	93.26	162.36	2.80	146.72G
	4750.00	6.00	126.40	4744.25	60.80	-90.92	31.22	96.13	161.05	1.85	-122.08G
	4782.00	5.70	121.20	4776.08	63.96	-92.73	33.93	98.74	159.91	1.90	-156.98G
	4814.00	5.10	118.30	4807.94	66.93	-94.23	36.54	101.07	158.81	2.06	-84.63G
	4847.00	5.20	111.20	4840.81	69.88	-95.47	39.22	103.21	157.66	1.95	-69.09G
	4876.00	5.40	106.20	4869.68	72.56	-96.32	41.76	104.99	156.56	1.73	173.24G
	4903.00	5.10	106.60	4896.57	75.02	-97.02	44.13	106.59	155.54	1.12	162.99G
	4941.00	4.70	108.10	4934.43	78.26	-97.99	47.23	108.77	154.27	1.11	114.70M
	4974.00	5.20	114.70	4967.31	81.10	-99.03	49.87	110.88	153.27	2.29	-36.95G
	5006.00	5.70	111.00	4999.16	84.14	-100.21	52.67	113.21	152.27	1.91	135.94G
	5039.00	5.60	112.00	5032.00	87.39	-101.40	55.69	115.69	151.22	0.43	15.30G
	5067.00	7.60	116.10	5059.82	90.60	-102.72	58.62	118.28	150.29	7.33	7.02G
	5102.00	11.50	118.50	5094.32	96.35	-105.41	63.77	123.20	148.83	11.20	18.72G
	5133.00	14.30	122.30	5124.54	103.16	-108.93	69.72	129.33	147.38	9.43	7.52G
	5164.00	15.30	122.80	5154.51	110.90	-113.19	76.40	136.56	145.98	3.25	-24.06G
	5196.00	17.40	119.70	5185.21	119.74	-117.85	84.10	144.78	144.49	7.10	-29.12G
	5230.00	21.70	113.40	5217.25	131.04	-122.87	94.29	154.88	142.50	14.07	-24.95G
	5260.00	25.90	109.00	5244.70	143.13	-127.21	105.59	165.32	140.31	15.19	-30.96G
	5293.00	29.50	104.70	5273.91	158.43	-131.62	120.27	178.29	137.58	12.47	-7.87G
	5324.00	32.20	104.00	5300.52	174.24	-135.55	135.67	191.78	134.98	8.79	15.05G
	5358.00	34.30	105.00	5328.96	192.78	-140.22	153.71	208.06	132.37	6.38	-4.93G
	5390.00	37.10	104.60	5354.94	211.37	-144.99	171.76	224.78	130.17	8.78	19.80G
	5420.00	39.40	105.90	5378.50	229.87	-149.88	189.68	241.75	128.32	8.12	1.53G
	5455.00	41.90	106.00	5405.05	252.60	-156.15	211.60	262.97	126.42	7.15	8.30G
	5486.00	44.80	106.60	5427.59	273.83	-162.12	232.02	283.05	124.94	9.45	3.99G
	5517.00	48.00	106.90	5448.97	296.23	-168.59	253.51	304.45	123.62	10.35	-9.84G
	5550.00	52.10	106.00	5470.15	321.47	-175.75	277.77	328.70	122.32	12.60	0.00G
	5584.00	55.70	106.00	5490.18	348.86	-183.32	304.18	355.15	121.08	10.59	9.30G
	5616.00	58.30	106.50	5507.61	375.63	-190.83	329.94	381.15	120.04	8.23	6.77G
	5646.00	60.50	106.80	5522.88	401.40	-198.23	354.68	406.31	119.20	7.38	-2.86G
	5677.00	64.10	106.60	5537.29	428.79	-206.11	380.96	433.14	118.41	11.63	-6.62G
	5709.00	68.10	106.10	5550.25	457.97	-214.35	409.03	461.79	117.66	12.58	1.27G
	5739.00	72.40	106.20	5560.38	486.12	-222.20	436.14	489.48	117.00	14.34	13.73G
	5771.00	77.20	107.40	5568.77	516.94	-231.12	465.70	519.90	116.40	15.43	-2.70G
	5804.00	81.40	107.20	5574.90	549.31	-240.76	496.65	551.93	115.86	12.74	-15.83G
	5836.00	82.80	106.80	5579.29	580.96	-250.03	526.96	583.27	115.38	4.55	-174.86G
	5866.00	81.70	106.70	5583.34	610.62	-258.60	555.42	612.67	114.97	3.68	17.27G
	5899.00	86.20	108.10	5586.82	643.39	-268.41	586.73	645.21	114.58	14.27	6.85G
	5932.00	91.20	108.70	5587.57	676.35	-278.82	618.02	678.01	114.28	15.26	-149.04G
	5961.00	90.70	108.40	5587.09	705.34	-288.04	645.51	706.86	114.05	2.01	140.19G
	5994.00	90.10	108.90	5586.85	738.32	-298.60	676.78	739.72	113.81	2.37	-98.13G
	6027.00	90.00	108.20	5586.83	771.31	-309.10	708.06	772.59	113.58	2.14	29.05G
	6058.00	90.90	108.70	5586.58	802.29	-318.91	737.47	803.47	113.39	3.32	90.00G

Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (deg)	DLS (deg/100 ft)	Tool Face (deg)
	6090.00	90.90	108.90	5586.08	834.27	-329.22	767.76	835.37	113.21	0.62	-78.68G
	6118.00	91.20	107.40	5585.57	862.25	-337.94	794.36	863.26	113.05	5.46	51.32G
	6151.00	92.00	108.40	5584.65	895.21	-348.08	825.75	896.11	112.86	3.88	-90.00G
	6182.00	92.00	107.90	5583.56	926.17	-357.73	855.19	926.99	112.70	1.61	-164.06G
	6214.00	91.30	107.70	5582.64	958.12	-367.51	885.64	958.87	112.54	2.27	123.69G
	6246.00	91.10	108.00	5581.97	990.09	-377.31	916.10	990.76	112.39	1.13	-90.00G
	6277.00	91.10	107.50	5581.38	1021.05	-386.76	945.62	1021.65	112.24	1.61	-90.00G
	6309.00	91.10	107.40	5580.76	1053.01	-396.36	976.14	1053.54	112.10	0.31	153.44G
	6340.00	90.90	107.50	5580.22	1083.96	-405.65	1005.71	1084.43	111.97	0.72	-165.96G
	6369.00	90.50	107.40	5579.87	1112.93	-414.35	1033.37	1113.34	111.85	1.42	-98.13G
	6403.00	90.40	106.70	5579.60	1146.87	-424.31	1065.87	1147.23	111.71	2.08	71.56G
	6434.00	90.50	107.00	5579.36	1177.82	-433.30	1095.54	1178.12	111.58	1.02	116.56G
	6466.00	90.40	107.20	5579.11	1209.76	-442.71	1126.13	1210.02	111.46	0.70	180.00G
	6499.00	90.10	107.20	5578.96	1242.72	-452.47	1157.65	1242.93	111.35	0.91	26.56G
	6531.00	90.50	107.40	5578.79	1274.67	-461.98	1188.20	1274.85	111.25	1.40	71.56G
	6561.00	90.60	107.70	5578.51	1304.64	-471.03	1216.81	1304.79	111.16	1.05	-135.00G
	6593.00	90.40	107.50	5578.23	1336.60	-480.70	1247.31	1336.73	111.08	0.88	9.46G
	6623.00	91.00	107.60	5577.86	1366.57	-489.75	1275.91	1366.67	111.00	2.03	-90.00G
	6657.00	91.00	107.20	5577.27	1400.52	-499.92	1308.35	1400.60	110.91	1.18	40.88G
	6688.00	92.50	108.50	5576.32	1431.47	-509.41	1337.84	1431.54	110.85	6.40	56.28G
	6720.00	92.70	108.80	5574.87	1463.43	-519.63	1368.13	1463.49	110.80	1.13	180.00G
	6752.00	92.60	108.80	5573.39	1495.38	-529.94	1398.39	1495.43	110.75	0.31	63.40G
	6785.00	92.80	109.20	5571.83	1528.34	-540.67	1429.56	1528.38	110.72	1.35	157.39G
	6817.00	91.60	109.70	5570.61	1560.31	-551.32	1459.71	1560.35	110.69	4.06	-90.00G
	6849.00	91.60	109.60	5569.71	1592.30	-562.07	1489.83	1592.33	110.67	0.31	-96.33G
	6884.00	91.50	108.70	5568.77	1627.28	-573.55	1522.88	1627.31	110.64	2.59	-153.44G
	6915.00	90.90	108.40	5568.12	1658.25	-583.41	1552.26	1658.28	110.60	2.16	-168.69G
	6945.00	89.40	108.10	5568.04	1688.23	-592.80	1580.75	1688.25	110.56	5.10	-63.43G
	6977.00	89.50	107.90	5568.35	1720.21	-602.69	1611.19	1720.22	110.51	0.70	31.61G
	7010.00	90.80	108.70	5568.26	1753.19	-613.05	1642.52	1753.20	110.47	4.63	-90.00G
	7043.00	90.80	108.40	5567.80	1786.17	-623.55	1673.80	1786.17	110.43	0.91	9.46G
	7076.00	91.40	108.50	5567.16	1819.15	-633.99	1705.10	1819.15	110.40	1.84	-90.00G
	7104.00	91.40	108.00	5566.48	1847.12	-642.76	1731.68	1847.12	110.36	1.79	90.00G
	7136.00	91.40	108.20	5565.70	1879.09	-652.70	1762.09	1879.09	110.33	0.62	0.00G
	7170.00	91.60	108.20	5564.81	1913.05	-663.31	1794.38	1913.05	110.29	0.59	-18.42G
	7203.00	91.90	108.10	5563.80	1946.01	-673.59	1825.72	1946.01	110.25	0.96	84.27G
	7232.00	92.00	109.10	5562.81	1974.98	-682.83	1853.19	1974.99	110.23	3.46	-123.70G
	7262.00	91.80	108.80	5561.82	2004.96	-692.57	1881.55	2004.96	110.21	1.20	-90.00G
	7295.00	91.80	108.10	5560.78	2037.93	-703.01	1912.84	2037.93	110.18	2.12	0.00G
	7327.00	91.80	108.10	5559.78	2069.89	-712.94	1943.24	2069.89	110.15	0.00	-71.55G
	7360.00	92.00	107.50	5558.68	2102.84	-723.03	1974.64	2102.85	110.11	1.92	-90.00G
	7386.00	92.00	107.30	5557.78	2128.79	-730.80	1999.43	2128.80	110.08	0.77	-102.52G
	7420.00	91.80	106.40	5556.65	2162.71	-740.65	2031.96	2162.73	110.03	2.71	-163.61G
	7450.00	90.10	105.90	5556.15	2192.63	-748.99	2060.77	2192.66	109.97	5.91	18.43G
	7483.00	90.40	106.00	5556.01	2225.53	-758.06	2092.50	2225.58	109.91	0.96	21.80G
	7513.00	90.90	106.20	5555.67	2255.45	-766.38	2121.32	2255.51	109.86	1.80	52.41G
	7546.00	91.90	107.50	5554.86	2288.38	-775.94	2152.89	2288.45	109.82	4.97	44.98G
	7577.00	92.00	107.60	5553.81	2319.33	-785.28	2182.43	2319.41	109.79	0.46	33.67G
	7614.00	92.30	107.80	5552.42	2356.26	-796.52	2217.65	2356.36	109.76	0.97	-90.00G
	7649.00	92.30	106.60	5551.01	2391.18	-806.86	2251.06	2391.30	109.72	3.43	-159.44G
	7679.00	90.70	106.00	5550.23	2421.10	-815.28	2279.85	2421.23	109.68	5.70	98.87G
	7693.00	90.20	109.20	5550.12	2435.08	-819.51	2293.19	2435.22	109.67	23.13	-63.43G
	7723.00	90.40	108.80	5549.96	2465.07	-829.28	2321.55	2465.22	109.66	1.49	153.44G
	7756.00	90.20	108.90	5549.79	2498.06	-839.94	2352.78	2498.22	109.65	0.68	75.96G
	7788.00	90.40	109.70	5549.62	2530.06	-850.52	2382.98	2530.22	109.64	2.58	-23.19G

Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (deg)	DLS (deg/100 ft)	Tool Face (deg)
	7820.00	91.10	109.40	5549.20	2562.05	-861.23	2413.14	2562.21	109.64	2.38	-44.99G
	7852.00	91.20	109.30	5548.56	2594.04	-871.83	2443.32	2594.21	109.64	0.44	-44.99G
	7883.00	91.30	109.20	5547.88	2625.03	-882.04	2472.58	2625.20	109.63	0.46	0.00G
	7911.00	91.40	109.20	5547.22	2653.02	-891.25	2499.02	2653.19	109.63	0.36	101.31G
	7944.00	91.30	109.70	5546.45	2686.00	-902.24	2530.12	2686.18	109.63	1.54	83.65G
	7977.00	91.40	110.60	5545.67	2719.00	-913.60	2561.10	2719.17	109.63	2.74	59.02G
	8011.00	91.70	111.10	5544.75	2752.98	-925.70	2592.86	2753.15	109.65	1.71	-30.94G
	8048.00	92.20	110.80	5543.49	2789.96	-938.92	2627.39	2790.12	109.66	1.58	71.54G
	8074.00	92.30	111.10	5542.47	2815.93	-948.21	2651.65	2816.09	109.68	1.22	-174.29G
	8111.00	91.30	111.00	5541.31	2852.91	-961.49	2686.17	2853.06	109.69	2.72	-90.00G
	8141.00	91.30	110.20	5540.63	2882.90	-972.04	2714.24	2883.05	109.70	2.67	-123.69G
	8176.00	91.10	109.90	5539.89	2917.90	-984.04	2747.11	2918.04	109.71	1.03	-101.30G
	8206.00	90.90	108.90	5539.37	2947.89	-994.00	2775.41	2948.04	109.70	3.40	123.69G
	8241.00	90.70	109.20	5538.88	2982.88	-1005.43	2808.49	2983.03	109.70	1.03	146.31G
	8271.00	90.40	109.40	5538.59	3012.87	-1015.34	2836.80	3013.03	109.69	1.20	11.31G
	8297.00	91.40	109.60	5538.18	3038.86	-1024.02	2861.30	3039.02	109.69	3.92	81.86G
	8327.00	91.50	110.30	5537.43	3068.85	-1034.25	2889.49	3069.01	109.69	2.36	71.55G
	8363.00	91.60	110.60	5536.45	3104.84	-1046.82	2923.21	3105.00	109.70	0.88	44.98G
	8393.00	92.00	111.00	5535.51	3134.82	-1057.47	2951.24	3134.98	109.71	1.89	107.09G
	8425.00	91.60	112.30	5534.50	3166.80	-1069.27	2980.97	3166.94	109.73	4.25	75.95G
	8455.00	91.80	113.10	5533.61	3196.76	-1080.84	3008.63	3196.89	109.76	2.75	-159.45G
	8490.00	91.00	112.80	5532.76	3231.71	-1094.49	3040.85	3231.83	109.80	2.44	90.00G
	8521.00	91.00	113.30	5532.22	3262.67	-1106.62	3069.37	3262.77	109.83	1.61	18.43G
	8553.00	91.30	113.40	5531.58	3294.62	-1119.30	3098.75	3294.70	109.86	0.99	0.00G
	8582.00	91.40	113.40	5530.89	3323.57	-1130.82	3125.36	3323.64	109.89	0.34	90.00G
	8645.00	91.40	113.60	5529.35	3386.45	-1155.93	3183.11	3386.50	109.96	0.32	78.67G
	8678.00	91.60	114.60	5528.49	3419.36	-1169.40	3213.23	3419.40	110.00	3.09	-90.00G
	8710.00	91.60	114.40	5527.60	3451.26	-1182.67	3242.33	3451.29	110.04	0.62	-153.44G
	8739.00	91.20	114.20	5526.89	3480.18	-1194.60	3268.76	3480.21	110.08	1.54	90.00G
	8771.00	91.20	114.90	5526.22	3512.09	-1207.89	3297.86	3512.10	110.12	2.19	-78.68G
	8804.00	91.30	114.40	5525.50	3544.98	-1221.65	3327.84	3544.99	110.16	1.54	90.00G
	8836.00	91.30	114.90	5524.77	3576.88	-1234.99	3356.92	3576.89	110.20	1.56	-116.57G
Last Survey	8858.00	91.20	114.70	5524.29	3598.81	-1244.22	3376.88	3598.81	110.23	1.02	0.00G

**Survey Type:** Non-Def Survey

**Survey Error Model:** SLB ISCWSA version 22 \*\*\* 3-D 95.00% Confidence 2.7955 sigma

**Surveying Prog:**

**MD From ( ft )**

-44.00  
0.00  
4393.00  
4470.00

**MD To ( ft )**

0.00  
4393.00  
4470.00  
8858.00

**EOU Freq**

Act-Stns  
Act-Stns  
Act-Stns  
Act-Stns

**Survey Tool Type**

SLB\_CNSG+DPIPE  
SLB\_CNSG+DPIPE  
SLB\_CNSG+CASING  
SLB\_MWD-STD

**Borehole -> Survey**

Lateral1 - ST1 -> SSU 2G-3-8-21 Lat1 - ST1 - Scientific Def. ( )  
Lateral1 - ST1 -> SSU 2G-3-8-21 Lat1 - ST1 - Scientific Def. ( )  
Lateral 2 -> SSU 2G-3-8-21 Lat2 Field Survey  
Lateral 2 -> SSU 2G-3-8-21 Lat2 Field Survey



# Scientific Drilling

Gyroscopic Survey Report  
for  
QEP Energy

<b>Well Location</b>	
<b>Well Name</b>	SSU 2G-3-8-21
<b>Rig Name</b>	Aztec 781
<b>Survey Date</b>	8/16/2010
<b>Latitude</b>	40.16 deg
<b>North Reference</b>	True North
<b>Grid Correction</b>	0.00 deg
<b>Depth Reference</b>	RKB
<b>Calculation Method</b>	Minimum Curvature
<b>Section (VS) Ref</b>	0.00N (ft), 0.00E (ft), 247.23Azim (deg)
<b>Definitive Survey</b>	None
<b>Operator</b>	W Arnold

## Comments

MD is sensor depth.



# Survey Report

Well Name: SSU 2G-3-8-21  
 Survey: Computed from KMAC SSU 2G-3-8-21 SSU 1's GC: OutRun and KMAC SSU 2G-3-8-21 SSU 1's High Angle: Out...  
 Survey Date: 8/16/2010

MD ft	Inc deg	Azim deg	TVD ft	VS ft	Northing ft	Easting ft	DLS deg/100ft	Closure Distance ft	Closure Angle deg
0.0	0.00	0.00	0.00	0.00	0.00	0.00	Invalid	0.00	0.00
43.0	0.24	9.47	43.00	-0.05	0.09	0.01	0.56	0.09	9.47
73.0	0.32	6.54	73.00	-0.12	0.23	0.03	0.28	0.24	8.42
103.0	0.41	4.83	103.00	-0.21	0.42	0.05	0.28	0.43	7.15
133.0	0.39	6.93	133.00	-0.31	0.63	0.07	0.08	0.64	6.73
163.0	0.36	9.62	163.00	-0.41	0.83	0.10	0.11	0.83	7.08
193.0	0.27	10.64	193.00	-0.50	0.99	0.13	0.32	1.00	7.57
223.0	0.16	12.27	223.00	-0.57	1.10	0.15	0.35	1.11	7.94
253.0	0.17	16.51	253.00	-0.62	1.18	0.17	0.05	1.19	8.41
283.0	0.20	19.73	283.00	-0.68	1.27	0.20	0.11	1.29	9.14
313.0	0.18	22.03	313.00	-0.75	1.37	0.24	0.07	1.39	9.98
343.0	0.15	25.06	343.00	-0.81	1.45	0.27	0.10	1.47	10.77
373.0	0.14	28.18	373.00	-0.87	1.51	0.31	0.05	1.54	11.54
403.0	0.13	31.34	403.00	-0.93	1.57	0.34	0.04	1.61	12.32
433.0	0.12	36.00	433.00	-0.98	1.63	0.38	0.05	1.67	13.13
463.0	0.11	42.32	463.00	-1.03	1.67	0.42	0.06	1.73	13.98
493.0	0.08	46.37	493.00	-1.08	1.71	0.45	0.08	1.77	14.78
523.0	0.05	50.54	523.00	-1.11	1.73	0.48	0.10	1.80	15.39
553.0	0.01	134.76	553.00	-1.12	1.74	0.49	0.17	1.81	15.68
583.0	0.07	221.23	583.00	-1.11	1.73	0.48	0.23	1.79	15.48
613.0	0.12	224.68	613.00	-1.06	1.69	0.44	0.17	1.75	14.72
643.0	0.15	227.18	643.00	-1.00	1.64	0.39	0.11	1.69	13.45
673.0	0.17	231.61	673.00	-0.92	1.59	0.33	0.08	1.62	11.67
703.0	0.18	238.27	703.00	-0.82	1.53	0.25	0.07	1.55	9.32
733.0	0.20	237.54	733.00	-0.73	1.48	0.17	0.06	1.49	6.42
763.0	0.24	229.76	763.00	-0.62	1.41	0.07	0.15	1.41	3.04
793.0	0.29	225.48	792.99	-0.49	1.32	-0.03	0.18	1.32	358.89
823.0	0.36	224.11	822.99	-0.33	1.20	-0.14	0.23	1.21	353.16
853.0	0.44	224.05	852.99	-0.14	1.05	-0.29	0.27	1.09	344.66
883.0	0.53	225.07	882.99	0.09	0.87	-0.47	0.32	0.99	331.83
913.0	0.60	228.33	912.99	0.37	0.67	-0.68	0.26	0.95	314.33
943.0	0.64	236.08	942.99	0.68	0.47	-0.94	0.30	1.05	296.49
973.0	0.68	239.75	972.99	1.02	0.29	-1.23	0.19	1.26	283.05
1003.0	0.70	235.95	1002.99	1.38	0.09	-1.54	0.17	1.54	273.47
1033.0	0.73	232.42	1032.98	1.75	-0.13	-1.84	0.17	1.84	266.08
1063.0	0.76	229.15	1062.98	2.12	-0.37	-2.14	0.17	2.17	260.13
1093.0	0.78	226.82	1092.98	2.50	-0.64	-2.44	0.12	2.52	255.26
1123.0	0.74	228.06	1122.97	2.87	-0.91	-2.73	0.14	2.88	251.57
1153.0	0.70	229.44	1152.97	3.23	-1.16	-3.02	0.14	3.23	248.97

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# Survey Report

Well Name: SSU 2G-3-8-21  
 Survey: Computed from KMAC SSU 2G-3-8-21 SSU 1's GC: OutRun and KMAC SSU 2G-3-8-21 SSU 1's High Angle: Out...  
 Survey Date: 8/16/2010

MD ft	Inc deg	Azim deg	TVD ft	VS ft	Northing ft	Easting ft	DLS deg/100ft	Closure Distance ft	Closure Angle deg
1183.0	0.66	230.97	1182.97	3.57	-1.39	-3.29	0.14	3.57	247.13
1213.0	0.63	231.72	1212.97	3.90	-1.60	-3.56	0.12	3.90	245.78
1243.0	0.67	219.57	1242.97	4.21	-1.84	-3.80	0.47	4.22	244.19
1273.0	0.73	209.73	1272.96	4.52	-2.14	-4.00	0.44	4.53	241.91
1303.0	0.68	219.05	1302.96	4.82	-2.44	-4.21	0.41	4.86	239.91
1333.0	0.65	229.47	1332.96	5.14	-2.69	-4.45	0.41	5.20	238.87
1363.0	0.70	231.59	1362.96	5.48	-2.91	-4.72	0.18	5.54	238.35
1393.0	0.75	232.89	1392.96	5.84	-3.14	-5.02	0.18	5.92	237.96
1423.0	0.78	235.92	1422.95	6.23	-3.37	-5.34	0.18	6.32	237.73
1453.0	0.82	239.00	1452.95	6.65	-3.60	-5.70	0.18	6.74	237.72
1483.0	0.89	239.70	1482.95	7.09	-3.83	-6.08	0.23	7.18	237.82
1513.0	0.96	239.84	1512.94	7.57	-4.07	-6.50	0.26	7.67	237.94
1543.0	1.04	239.95	1542.94	8.09	-4.33	-6.95	0.26	8.19	238.07
1573.0	1.12	240.05	1572.93	8.65	-4.62	-7.44	0.26	8.76	238.19
1603.0	1.15	237.31	1602.93	9.24	-4.92	-7.95	0.20	9.35	238.22
1633.0	1.15	232.69	1632.92	9.82	-5.27	-8.44	0.31	9.95	238.03
1663.0	1.11	231.45	1662.92	10.39	-5.63	-8.91	0.14	10.54	237.69
1693.0	1.04	233.80	1692.91	10.94	-5.97	-9.36	0.30	11.10	237.44
1723.0	0.96	236.53	1722.91	11.45	-6.27	-9.78	0.30	11.62	237.33
1753.0	0.89	239.72	1752.90	11.93	-6.53	-10.19	0.30	12.11	237.36
1783.0	0.82	243.10	1782.90	12.37	-6.74	-10.59	0.27	12.55	237.50
1813.0	0.78	246.08	1812.90	12.79	-6.92	-10.97	0.21	12.97	237.73
1843.0	0.73	249.17	1842.89	13.19	-7.08	-11.33	0.21	13.36	238.02
1873.0	0.67	251.42	1872.89	13.55	-7.20	-11.68	0.21	13.72	238.34
1903.0	0.62	253.93	1902.89	13.89	-7.30	-12.00	0.20	14.05	238.69
1933.0	0.59	252.60	1932.89	14.21	-7.39	-12.31	0.10	14.35	239.01
1963.0	0.57	251.15	1962.89	14.51	-7.49	-12.59	0.10	14.65	239.27
1993.0	0.58	246.63	1992.88	14.81	-7.60	-12.88	0.16	14.95	239.46
2023.0	0.60	242.12	2022.88	15.12	-7.73	-13.15	0.16	15.26	239.56
2053.0	0.60	240.58	2052.88	15.43	-7.88	-13.43	0.06	15.57	239.60
2083.0	0.61	239.49	2082.88	15.75	-8.04	-13.70	0.04	15.89	239.61
2113.0	0.62	237.69	2112.88	16.07	-8.21	-13.98	0.07	16.21	239.59
2143.0	0.63	235.73	2142.88	16.39	-8.39	-14.25	0.08	16.54	239.53
2173.0	0.62	238.75	2172.87	16.71	-8.56	-14.53	0.11	16.87	239.48
2203.0	0.61	244.88	2202.87	17.03	-8.72	-14.81	0.22	17.19	239.53
2233.0	0.60	251.20	2232.87	17.35	-8.84	-15.11	0.22	17.50	239.68
2263.0	0.61	257.58	2262.87	17.66	-8.92	-15.41	0.22	17.81	239.94
2293.0	0.60	262.84	2292.87	17.97	-8.97	-15.72	0.19	18.10	240.28

**CONFIDENTIAL**



# Survey Report

Well Name: SSU 2G-3-8-21  
 Survey: Computed from KMAC SSU 2G-3-8-21 SSU 1's GC: OutRun and KMAC SSU 2G-3-8-21 SSU 1's High Angle: Out...  
 Survey Date: 8/16/2010

MD	Inc	Azim	TVD	VS	Northing	Easting	DLS	Closure Distance	Closure Angle
ft	deg	deg	ft	ft	ft	ft	deg/100ft	ft	deg
2323.0	0.58	267.10	2322.87	18.26	-9.00	-16.03	0.16	18.38	240.69
2353.0	0.58	270.31	2352.86	18.55	-9.01	-16.33	0.11	18.65	241.13
2383.0	0.61	271.28	2382.86	18.83	-9.00	-16.65	0.09	18.92	241.59
2413.0	0.63	273.91	2412.86	19.13	-8.99	-16.97	0.13	19.20	242.09
2443.0	0.67	280.84	2442.86	19.42	-8.94	-17.31	0.29	19.48	242.67
2473.0	0.71	284.89	2472.86	19.71	-8.86	-17.66	0.21	19.76	243.34
2503.0	0.75	278.38	2502.85	20.02	-8.79	-18.03	0.31	20.06	244.01
2533.0	0.79	272.90	2532.85	20.38	-8.75	-18.43	0.29	20.40	244.60
2563.0	0.79	271.79	2562.85	20.75	-8.73	-18.84	0.05	20.77	245.14
2593.0	0.79	270.68	2592.85	21.13	-8.72	-19.26	0.05	21.14	245.63
2623.0	0.78	260.66	2622.84	21.52	-8.75	-19.67	0.46	21.53	246.01
2653.0	0.79	250.25	2652.84	21.93	-8.86	-20.06	0.47	21.93	246.18
2683.0	0.77	249.50	2682.84	22.33	-9.00	-20.45	0.08	22.34	246.25
2713.0	0.74	250.70	2712.83	22.73	-9.13	-20.82	0.11	22.73	246.32
2743.0	0.66	253.04	2742.83	23.09	-9.25	-21.16	0.29	23.10	246.40
2773.0	0.56	256.62	2772.83	23.41	-9.33	-21.47	0.35	23.41	246.51
2803.0	0.58	247.33	2802.83	23.70	-9.42	-21.75	0.31	23.71	246.58
2833.0	0.69	234.23	2832.83	24.03	-9.59	-22.04	0.62	24.03	246.49
2863.0	0.75	229.66	2862.82	24.39	-9.82	-22.33	0.27	24.40	246.27
2893.0	0.75	229.21	2892.82	24.77	-10.07	-22.63	0.02	24.77	246.01
2923.0	0.73	220.86	2922.82	25.12	-10.34	-22.90	0.36	25.13	245.69
2953.0	0.74	201.83	2952.82	25.43	-10.67	-23.10	0.81	25.45	245.21
2983.0	0.84	196.39	2982.81	25.71	-11.06	-23.24	0.40	25.73	244.55
3013.0	0.98	208.49	3012.81	26.04	-11.50	-23.42	0.81	26.09	243.86
3043.0	1.08	216.34	3042.81	26.49	-11.95	-23.71	0.58	26.55	243.25
3073.0	0.98	221.58	3072.80	26.96	-12.37	-24.05	0.48	27.04	242.78
3103.0	0.91	226.47	3102.80	27.41	-12.72	-24.39	0.35	27.51	242.45
3133.0	0.98	224.27	3132.79	27.87	-13.07	-24.74	0.27	27.98	242.15
3163.0	1.05	222.06	3162.79	28.36	-13.46	-25.11	0.27	28.49	241.80
3193.0	1.10	215.91	3192.78	28.85	-13.90	-25.46	0.42	29.01	241.37
3223.0	1.17	210.36	3222.78	29.34	-14.40	-25.78	0.42	29.53	240.82
3253.0	1.17	205.53	3252.77	29.82	-14.94	-26.07	0.33	30.04	240.19
3283.0	1.18	200.78	3282.76	30.26	-15.50	-26.31	0.33	30.54	239.50
3313.0	1.09	194.68	3312.76	30.65	-16.07	-26.49	0.50	30.98	238.77
3343.0	1.00	187.18	3342.75	30.95	-16.60	-26.60	0.55	31.35	238.03
3373.0	1.03	183.31	3372.75	31.20	-17.13	-26.65	0.25	31.68	237.26
3403.0	1.10	181.32	3402.74	31.44	-17.69	-26.67	0.28	32.00	236.45
3433.0	1.18	184.27	3432.74	31.69	-18.28	-26.70	0.32	32.36	235.59

CONFIDENTIAL



# Survey Report

Well Name: SSU 2G-3-8-21  
 Survey: Computed from KMAC SSU 2G-3-8-21 SSU 1's GC: OutRun and KMAC SSU 2G-3-8-21 SSU 1's High Angle: Out...  
 Survey Date: 8/16/2010

MD ft	Inc deg	Azim deg	TVD ft	VS ft	Northing ft	Easting ft	DLS deg/100ft	Closure Distance ft	Closure Angle deg
3463.0	1.26	189.06	3462.73	32.01	-18.92	-26.77	0.43	32.78	234.75
3493.0	1.44	190.95	3492.72	32.39	-19.61	-26.90	0.63	33.29	233.90
3523.0	1.71	190.76	3522.71	32.85	-20.43	-27.05	0.89	33.90	232.95
3553.0	1.96	190.00	3552.70	33.37	-21.37	-27.22	0.84	34.61	231.87
3583.0	2.19	188.75	3582.68	33.95	-22.44	-27.40	0.79	35.42	230.68
3613.0	2.39	187.82	3612.65	34.57	-23.63	-27.57	0.66	36.31	229.40
3643.0	2.52	187.13	3642.62	35.22	-24.90	-27.74	0.44	37.28	228.08
3673.0	2.66	185.44	3672.59	35.87	-26.25	-27.89	0.53	38.30	226.73
3703.0	2.82	181.91	3702.56	36.51	-27.68	-27.98	0.79	39.36	225.31
3733.0	2.99	178.05	3732.52	37.10	-29.20	-27.98	0.86	40.44	223.78
3763.0	3.15	172.25	3762.48	37.59	-30.80	-27.84	1.16	41.51	222.11
3793.0	3.31	167.14	3792.43	37.95	-32.46	-27.54	1.10	42.56	220.31
3823.0	3.26	162.95	3822.38	38.18	-34.11	-27.09	0.81	43.56	218.46
3853.0	3.24	158.68	3852.33	38.29	-35.72	-26.53	0.81	44.50	216.61
3883.0	3.13	160.00	3882.29	38.35	-37.28	-25.95	0.44	45.42	214.84
3913.0	3.02	161.41	3912.24	38.45	-38.80	-25.41	0.44	46.38	213.23
3943.0	2.92	162.92	3942.20	38.58	-40.28	-24.94	0.44	47.37	211.77
3973.0	2.81	164.54	3972.17	38.75	-41.71	-24.52	0.44	48.39	210.45
4003.0	2.71	166.29	4002.13	38.96	-43.11	-24.15	0.44	49.42	209.26
4033.0	2.61	168.16	4032.10	39.20	-44.47	-23.85	0.44	50.46	208.20
4063.0	2.71	161.91	4062.07	39.39	-45.81	-23.49	1.01	51.48	207.14
4093.0	2.90	154.09	4092.03	39.40	-47.17	-22.93	1.43	52.45	205.93
4123.0	3.08	152.63	4121.99	39.30	-48.57	-22.23	0.63	53.42	204.59
4153.0	3.22	153.90	4151.94	39.18	-50.04	-21.49	0.54	54.46	203.24
4183.0	3.32	153.92	4181.90	39.08	-51.58	-20.74	0.33	55.59	201.90
4213.0	3.38	152.95	4211.84	38.97	-53.15	-19.95	0.27	56.77	200.58
4243.0	3.45	151.62	4241.79	38.81	-54.73	-19.12	0.34	57.97	199.26
4273.0	3.52	149.88	4271.74	38.61	-56.32	-18.23	0.42	59.20	197.94
4303.0	3.56	147.85	4301.68	38.34	-57.90	-17.27	0.44	60.42	196.61
4333.0	3.56	145.29	4331.62	37.99	-59.46	-16.25	0.53	61.64	195.29
4363.0	3.57	142.73	4361.56	37.57	-60.96	-15.15	0.53	62.82	193.96
4393.0	3.56	141.28	4391.50	37.08	-62.43	-14.01	0.30	63.99	192.64
4423.0	3.53	142.78	4421.45	36.59	-63.90	-12.86	0.32	65.18	191.38
4453.0	3.53	143.63	4451.39	36.14	-65.38	-11.76	0.18	66.43	190.19
4483.0	3.50	143.34	4481.33	35.71	-66.85	-10.66	0.10	67.70	189.06
4513.0	3.53	142.32	4511.28	35.25	-68.32	-9.55	0.22	68.98	187.96
4543.0	3.55	141.94	4541.22	34.77	-69.78	-8.42	0.11	70.29	186.88
4573.0	3.57	141.57	4571.16	34.27	-71.24	-7.26	0.11	71.61	185.82
4603.0	3.56	141.54	4601.10	33.77	-72.71	-6.10	0.06	72.96	184.80

**CONFIDENTIAL**



# Survey Report

Well Name: SSU 2G-3-8-21  
 Survey: Computed from KMAC SSU 2G-3-8-21 SSU 1's GC: OutRun and KMAC SSU 2G-3-8-21 SSU 1's High Angle: Out...  
 Survey Date: 8/16/2010

MD ft	Inc deg	Azim deg	TVD ft	VS ft	Northing ft	Easting ft	DLS deg/100ft	Closure Distance ft	Closure Angle deg
4633.0	3.53	142.97	4631.05	33.29	-74.17	-4.97	0.31	74.34	183.83
4663.0	3.49	144.65	4660.99	32.86	-75.65	-3.88	0.37	75.75	182.94
4693.0	3.48	147.31	4690.94	32.50	-77.16	-2.86	0.54	77.22	182.13
4723.0	3.48	150.21	4720.88	32.24	-78.72	-1.92	0.59	78.74	181.40
4753.0	3.58	150.81	4750.82	32.02	-80.33	-1.01	0.36	80.33	180.72
4783.0	3.76	152.35	4780.76	31.83	-82.02	-0.10	0.69	82.02	180.07
4813.0	3.89	153.46	4810.69	31.68	-83.80	0.82	0.50	83.80	179.44
4843.0	3.94	152.64	4840.62	31.53	-85.63	1.74	0.24	85.64	178.83
4873.0	3.93	153.02	4870.55	31.37	-87.46	2.68	0.10	87.50	178.24
4903.0	3.76	159.42	4900.49	31.34	-89.29	3.50	1.53	89.36	177.76
4933.0	3.43	175.33	4930.43	31.65	-91.11	3.92	3.49	91.20	177.54
4963.0	3.30	199.55	4960.38	32.51	-92.82	3.70	4.72	92.89	177.72
4993.0	3.86	220.29	4990.32	33.99	-94.40	2.76	4.68	94.44	178.33
5023.0	5.17	232.12	5020.23	36.20	-96.00	1.04	5.32	96.01	179.38
5053.0	7.07	244.88	5050.06	39.35	-97.62	-1.70	7.74	97.63	181.00
5083.0	9.49	250.77	5079.74	43.66	-99.22	-5.71	8.56	99.38	183.29
5113.0	12.42	253.85	5109.19	49.34	-100.93	-11.14	9.94	101.54	186.30
5143.0	15.57	257.51	5138.30	56.50	-102.70	-18.17	10.92	104.29	190.03
5173.0	18.09	261.48	5167.01	64.98	-104.26	-26.71	9.23	107.63	194.37
5203.0	20.71	266.18	5195.31	74.52	-105.30	-36.61	10.16	111.49	199.17
5233.0	23.07	269.22	5223.14	84.98	-105.73	-47.79	8.73	116.03	204.32
5263.0	25.45	271.74	5250.49	96.30	-105.62	-60.11	8.64	121.53	209.65
5293.0	28.01	267.66	5277.29	108.77	-105.71	-73.60	10.51	128.81	214.85
5323.0	30.85	268.60	5303.41	122.54	-106.19	-88.33	9.57	138.12	219.75
5353.0	33.48	269.51	5328.81	137.36	-106.44	-104.29	8.93	149.02	224.42
5383.0	36.56	270.04	5353.37	153.26	-106.51	-121.51	10.31	161.58	228.76
5413.0	39.77	269.94	5376.96	170.35	-106.51	-140.04	10.69	175.95	232.74
5443.0	42.74	269.17	5399.51	188.65	-106.67	-159.82	10.06	192.15	236.28
5473.0	45.77	268.17	5420.99	208.14	-107.16	-180.75	10.35	210.13	239.34
5503.0	48.90	267.70	5441.32	228.77	-107.96	-202.79	10.50	229.74	241.97
5533.0	51.95	267.58	5460.43	250.44	-108.91	-225.90	10.18	250.78	244.26
5563.0	55.06	267.58	5478.27	273.05	-109.93	-249.99	10.34	273.09	246.26
5579.0	56.77	267.63	5487.24	285.47	-110.49	-263.23	10.73	285.47	247.23

**CONFIDENTIAL**

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

CONFIDENTIAL

AMENDED REPORT   
(highlight changes)

FORM 8

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NUMBER:  
UTU-80636

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
N/A

7. UNIT or CA AGREEMENT NAME  
STIRRUP SOUTH

8. WELL NAME and NUMBER:  
SSU 2G 3 8 21

9. API NUMBER:  
4304740159

10. FIELD AND POOL, OR WILDCAT  
UNDESIGNATED

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:  
NWNE 3 8S 21E S

12. COUNTY  
UINTAH

13. STATE  
UTAH

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 Dual Lateral

2. NAME OF OPERATOR:  
QEP ENERGY COMPANY

3. ADDRESS OF OPERATOR: 11002 E. 17500 S. CITY VERNAL STATE UT ZIP 84078 PHONE NUMBER: (435) 781-4342

4. LOCATION OF WELL (FOOTAGES)  
AT SURFACE: 842' FNL, 1958' FEL  
AT TOP PRODUCING INTERVAL REPORTED BELOW:  
AT TOTAL DEPTH: 2091' FNL, 1419' FWL

14. DATE SPURRED: 12/1/2008

15. DATE T.D. REACHED: 10/3/2010

16. DATE COMPLETED: 2/14/2011

17. ELEVATIONS (DF, RKB, RT, GL): 4758' KB

18. TOTAL DEPTH: MD 8,905 TVD 5,525

19. PLUG BACK T.D.: MD 8,801 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)  
CBL

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
12-1/4"	9-5/8" K-55	36#		498		225		0	
8-3/4"	7" FSS	26#		5,053		630		0	
6-1/8"	4-1/2" P110	11.6#		9,325					
6-1/8"	4-1/2" P110	11.6#		8,905					

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	4,353							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) Green River (L)	4,647	4,654			6,412 9,315			Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(B) Green River (U)	4,407	4,415			4,420 8,801			Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

27. PERFORATION RECORD

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
4420' - 8801'	Acidized Upper Lateral #2 w/ 50,000 gals of 15% HCL **See Attachment One for additional acidizing done.

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:  
Producing

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 11/5/2010		TEST DATE: 11/6/2010		HOURS TESTED: 24		TEST PRODUCTION RATES: →	OIL - BBL: 38	GAS - MCF: 0	WATER - BBL: 439	PROD. METHOD: PUMP
CHOKE SIZE:	TBG. PRESS. 200	CSG. PRESS. 20	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

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.)

N/A

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)
				UINTA	0
				GREEN RIVER	2,684
				'X' - MARKER	4,782

35. ADDITIONAL REMARKS (Include plugging procedure)

DUAL LATERAL WELL - See Attachment Page One for #4 & #27 and additional information on final completion.

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

NAME (PLEASE PRINT) Dahn Caldwell TITLE Office Administrator  
 SIGNATURE *Dahn Caldwell* DATE 2/28/2011

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

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## SSU 2G 3-8-21

"Amended"

### Attachment Page One

DOFP: 11/5/10

#4 – Upper Lateral #2 – G-1 Lime – TD: 8905' MD, PBTD: 8801' MD,  
TVD: 5523'

Lower Lateral #1 – G-1 Lime – TD: 9325' MD, PBTD: 9315' MD,  
TVD: 5661'

Upper Lateral BHL #2 is 2091' FNL, 1419' FWL, Sec 2-T8S-R21E

Lower Lateral BHL #1 is 864' FNL, 652' FEL, Sec 4-T8S-R21E

#27 – Perforation Record:

Upper Lateral #2 – 4-1/2", 11.6#, P-110/N-80 LT&C w/ shoe set @ 8901'.  
Blank 4,420' – 5,972' alternating jts of blank & perforated f/ 5,972' – 8,801'.

Lower Lateral #1 – 4-1/2", 11.6#, P-110 w/ shoe set @ 9,315'. Swell pkrs  
@ 9251', 8868', 8564', 8274', 8015', 7666', 7365', 7062', 6584', 6412'.

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### **\*\*Amended Information on 2/14/2011**

**\*\* Acidized shifted sleeve @ 6328' w/ 1800#. Pump 7500  
gals 15% HCL & flushed w/ 4000 gals 2% KCL. Drop 3.615  
ball & pump to bottom, shifted sleeve @ 6075' w/ 3350#  
pumped 7500 gals 15% HCL & flushed w/ 4074 gals 2% KCL.**

**New liner top @ 4363' w/ liner packer set @ 4380'. Changed  
over to 2-7/8" tbg.**

Operations Summary Report

Well Name: SSU 2G-3-8-21  
 Location: 3-8-S 21-E 26  
 Rig Name: BASIN WELL SERVICE

Spud Date: 7/8/2010  
 Rig Release:  
 Rig Number: 3

Date	From - To	Hours	Code	Sub Code	Description of Operations	
10/7/2010	07:30 - 09:00	1.50	LOC	3	10/07/10: ROAD RIG 47-MILES TO LOCATION.	
	09:00 - 10:30	1.50	LOC	4	SPOT EQUIPMENT. MIRU.	
	10:30 - 13:30	3.00	WHD	1	ASSIST CAMERON WELLHEAD IN NU TBG HEAD. PRESSURE TESTED VOIDS TO 4500# PSI. HELD GOOD.	
	13:30 - 14:30	1.00	BOP	1	NU BOP'S.	
	14:30 - 15:30	1.00	OTH		RU TBG EQUIPMENT AND RIG FLOOR. LAY PUMP AND RETURN LINES. SWIFN.	
10/8/2010	15:30 - 17:00	1.50	TRAV	1	TRAVEL TO TOWN.	
	05:30 - 07:00	1.50	TRAV	1	10/8/10: TRAVEL TO LOCATION.	
	07:00 - 07:45	0.75	TRP	1	CHECK PRESSURE: SICP=0 M.U. OVERSHOT AND 3' EXTENSION DRESSED WITH 3 1/8" GRAPPLE, X-OVER, 3 3/4" BUMPER SUB, 3 3/4" BOWEN JARS, X-OVER AND 8' X 2 7/8" N-80 SUB AS BHA.	
	07:45 - 11:00	3.25	TRP	5	RIH WITH BHA AND 128-JT'S OF 2 7/8" J-55 TBG. ( TALLY AND RABBIT AS RUN )	
	11:00 - 12:15	1.25	CIRC	1	WITH EOT @ 3966' ROLLED HOLE WITH 145- BBLS OF 2% KCL TO CIRCULATE OUT DRILLING MUD.	
	12:15 - 12:30	0.25	FISH	5	WASHED OVER AND LATCHED ONTO FISH TOP @ 3978'	
	12:30 - 13:45	1.25	FISH	3	START JARRING ON FISH. SETTING JARS OFF @ 15K OVER STRING WT WORKING UP TO 45K OVER STRING WT. SHEARED OFF W.L. SET RBP @ 3990' AFTER 4 HITS WITH JARS @ 45K OVER STRING WT.	
	13:45 - 15:00	1.25	TRP	2	POOH WITH 128-JT'S TBG, BHA AND FISH ( SETTIG TOOL )	
	15:00 - 15:30	0.50	TRP	1	LD BHA AND FISH.	
	15:30 - 18:00	2.50	LOG	2	RU CASD HOLE SOLUTIONS AND RUN CBL FROM 3984' UP TO SURFACE WITH 0-PRESSURE ON WELL. ESTIMATE CEMENT TOP @ 2800' RDWL. AND SWI FOR WEEKEND.	
10/11/2010	18:00 - 19:30	1.50	TRAV	1	TRAVEL TO TOWN.	
	05:30 - 07:00	1.50	TRAV	1	10/11/10: TRAVEL TO LOCATION.	
	07:00 - 08:15	1.25	TRP	2	SICP=0. RIH WITH R.H. AND 129-JT,S 2 7/8" TBG.	
	08:15 - 08:45	0.50	DEQ	1	RU PUMP AND CIRC EQUIPMENT. WITH HOLE FULL, CIRC ONTO RBP SET @ 3990". CIRC CLEAN. RELEASED PLUG WITH 0-PRESSURE CHANGE.	
	08:45 - 10:00	1.25	TRP	2	POOH WITH 129- JT'S TBG, RH AND BP. LAY DOWN RBP.	
	10:00 - 10:45	0.75	OTH		CHANGE PIPE RAMS AND TBG EQUIPMENT FROM 2 7/8" OVER TO 2 3/8"	
	10:45 - 12:00	1.25	TRP	5	TALLY, RABBIT AND RIH WITH 48-JT'S 2 3/8" HYDRIL TBG. EOT @ 1454'	
	12:00 - 12:30	0.50	LUN	1	LUNCH	
	12:30 - 14:15	1.75			CONTINUE TO TALLY, RABBIT AND RIH WITH AN ADDITIONAL 100-JT'S 2 3/8" HYDRIL TBG. ( 148-TOTAL JT'S = 4488' )	
	14:15 - 14:45	0.50	OTH		CHANGE PIPE RAMS AND TBG EQUIPMENT FROM 2 3/8" OVER FOR 2 7/8" TBG.	
10/12/2010	14:45 - 15:45	1.00	TRP	2	CONTINUED RIH WITH 80-JT'S 2 7/8" TBG. EOT@ 6967'	
	15:45 - 17:00	1.25	CIRC	1	RU PUMP AND REVERSE CIRCULATE OUT DRILLING MUD WITH 45-BBLS 2% KCL AND LOST CIRCULATION. PUMPED ADDITIONAL 20-BBLS WITH NO CIRCULATION. PUMPED 35-BBLS DOWN TBG TO CLEAR. SWIFN.	
	17:00 - 18:30	1.50	TRAV	1	TRAVEL TO TOWN.	
	05:30 - 07:00	1.50	TRAV	1	10/12/10: TRAVEL TO LOCATION.	
	07:00 - 07:30	0.50	WCL	2	CHECK PRESSURE: SICP= 125# PSI SITP= 250# PSI. BLOW WELL DOWN TO 0-PRESSURE. RECOVERED 5-BBLS WATER.	
	07:30 - 09:00	1.50	TRP	2	CONTINUED RIH WITH 59-JT'S 2 7/8" TBG. EOT @ 8790'.	
	09:00 - 09:30	0.50	CIRC	1	RU PUMP AND CLEAR TBG WITH 45-BBLS 2% KCL. SWIFD.	
	09:30 - 11:00	1.50	TRAV	1	TRAVEL TO TOWN.	
	10/13/2010	06:30 - 08:00	1.50	TRAV	1	10/13/10: TRAVEL TO LOCATION.
		08:00 - 08:15	0.25	WCL	2	CHECK PRESSURE: SICP= 80# PSI. SITP= 250# PSI. BLOW WELL TO 0-PRESSURE.
08:15 - 09:00		0.75	OTH		RU HALLIBURTON ACID PUMPERS.	

## Operations Summary Report

Well Name: SSU 2G-3-8-21  
 Location: 3-8-S 21-E 26  
 Rig Name: BASIN WELL SERVICE

Spud Date: 7/8/2010  
 Rig Release:  
 Rig Number: 3

Date	From - To	Hours	Code	Sub Code	Description of Operations
10/13/2010	09:00 - 10:15	1.25	STIM	1	WITH EOT@ 8790. PUMPED 9000 GAL 15% HCL, FLUSHED WITH 33.5-BBLS OF 2% KCL FOLLOWED BY 20-BBLS 10# BRINE. AVG RT= 5.7 BPM, MAX RT= 5.7-BPM, AVG PSI= 3450#, MAX PSI= 3507# ISIP= 714#. TOTAL BBLS= 267
	10:15 - 10:45	0.50	TRP	14	POOH WITH 17-JT'S TBG. EOT@ 8264'
	10:45 - 11:15	0.50	STIM	1	WITH EOT@ 8264'. PUMPED 9000 GAL 15% HCL, FLUSHED WITH 30-BBLS 2% KCL FOLLOWED BY 20-BBLS 10# BRINE. AVG RT= 5.7 BPM, MAX RT= 5.7 BPM, AVG PSI= 3450#, MAX PSI= 3507#. TOTAL=BBLS= 264
	11:15 - 11:45	0.50	TRP	14	POOH WITH 16-JT'S TBG. EOT@ 7767'
	11:45 - 14:00	2.25	OTH		WAIT ON HALLIBURTON TO REPAIR ACID PUMPER.
	14:00 - 14:45	0.75	STIM	1	WITH EOT@ 7767'. PUMPED 8000 GAL 15% HCL, FLUSHED WITH 10-BBLS 2% KCL FOLLOWED BY 30-BBLS 10# BRINE. AVG RT= 6.2 BPM, MAX RT= 6.6 BPM, AVG PSI= 3800#, MAX PSI= 4017#. TOTAL BBLS= 231
	14:45 - 15:15	0.50	TRP	14	POOH WITH 15-JT'S TBG. EOT@ 7304'
	15:15 - 16:00	0.75	STIM	1	WITH EOT@ 7304'. PUMPED 8000 GAL 15% HCL, FLUSHED WITH 10-BBLS 2% KCL FOLLOWED BY 30-BBLS 10# BRINE. AVG RT= 6.4 BPM, MAX RT= 6.6 BPM, AVG PSI= 3940#, MAX PSI= 3955#. TOTAL BBLS= 231.5
	16:00 - 16:15	0.25	TRP	14	POOH WITH 15-JT'S TBG. EOT@ 6844'
	16:15 - 17:00	0.75	STIM	1	WITH EOT@ 6844'. PUMPED 8000 GAL 15% HCL, FLUSHED WITH 10-BBLS 2% KCL FOLLOWED BY 30-BBLS 10# BRINE. AVG RT= 6.4 BPM. MAX RT= 6.6 BPM, AVG PSI= 3820#, MAX PSI= 3870#. TOTAL BBLS= 231
	17:00 - 17:15	0.25	TRP	14	POOH WITH 20-JT'S TBG. EOT@ 6229'
	17:15 - 17:45	0.50	STIM	1	WITH EOT@ 6229'. PUMPED 8000 GAL 15% HCL, FLUSHED WITH 30-BBLS 2% KCL. AVG RT= 6.6 BPM, MAX RT= 6.6 BPM, AVG PSI= 3680#, MAX PSI= 3750#,. TOTAL BBLS= 220
	17:45 - 18:00	0.25	OTH		SWIFN. RD HALLIBURTON.
	18:00 - 19:30	1.50	TRAV	1	TRAVEL TO TOWN.
10/14/2010	05:30 - 07:00	1.50	TRAV	1	10/14/10: TRAVEL TO LOCATION.
	07:00 - 07:15	0.25	OTH		CHECK PRESSURE: SICP= 75# PSI. SITP= 250# PSI.
	07:15 - 08:00	0.75	WCL	2	OPEN WELL UP AND BLOW PRESSURE DOWN TO 0-PSI. RECOVERED 60-BBLS WATER FLOWBACK.
	08:00 - 08:15	0.25	WCL	1	PUMPED 20-BBLS 2% KCL DOWN TBG.
	08:15 - 09:00	0.75	TRP	2	POOH WITH 56-JT'S 2 7/8" TBG AND STOOD BACK IN DERRICK.
	09:00 - 10:00	1.00	OTH		CHANGE EQUIPMENT OVER FOR 2 N3/8" TBG. CHANGE OUT PIPE RAMS.
	10:00 - 11:30	1.50	TRP	5	LD 75-JT'S 2 3/8" HYDRIL TBG. EOT@ 2210'
10/15/2010	11:30 - 12:00	0.50	CIRC	1	CIRCULATE 75-BBLS 2% KCL DOWN TBG TO CONTROL WELL.
	12:00 - 13:00	1.00	TRP	1	FINISH POOH WITH 73-JT'S 2 3/8" HYDRIL TBG. SWIFD
	13:00 - 14:00	1.00	OTH		CHANGE ALL EQUIPMENT OVER FOR 2 7/8" TBG.
	14:00 - 15:30	1.50	TRAV	1	TRAVEL TO TOWN.
	05:30 - 07:00	1.50	TRAV	1	10/15/10: TRAVEL TO LOCATION.
	07:00 - 07:15	0.25	OTH		CHECK PRESSURE: SICP= 150# PSI.
	07:15 - 12:00	4.75	WCL	1	OPEN WELL UP TO PIT. START FLOWING OIL. PUMP 20-BBLS 10# BRINE WATER DOWN CSG. OPENED WELL BACK UP. FLOW 2-BBLS WATER AND TURNED TO OIL. PUMP ADDITIONAL 50-BBLS BRINE WATER DOWN CSG. SHUT IN FOR 30-MINUTES. OPENED BACK UP AND STARTED FLOWING OIL. PUMP ADDITIONAL 50-BBLS BRINE WATER DOWN CSG AND SWI FOR WEEKEND.
	12:00 - 13:30	1.50	TRAV	1	TRAVEL TO TOWN.
	05:30 - 07:00	1.50	TRAV	1	10/18/10: TRAVEL TO LOCATION.
	07:00 - 07:15	0.25	WCL	2	CHECK PRESSURE: SICP=125# PSI. BLOW WELL DOWN WITH 0- FLUID RECOVERY.
10/18/2010	07:15 - 07:30	0.25	WCL	1	PUMPED 25-BBLS 10# BRINE WATER DOWN CSG.
	07:30 - 08:15	0.75	TRP	1	PU AND MU WHIPSTOCK RETRIEVING TOOL, STRING FLOAT, X-OVER, 3 3/4" HYD. JARS, 4- 3 1/2" DRILL COLLARS, 3 3/4" INT. AND X-OVER AS BHA.

**CONFIDENTIAL**

## Operations Summary Report

Well Name: SSU 2G-3-8-21  
 Location: 3-8-S 21-E 26  
 Rig Name: BASIN WELL SERVICE

Spud Date: 7/8/2010  
 Rig Release:  
 Rig Number: 3

Date	From - To	Hours	Code	Sub Code	Description of Operations
10/18/2010	08:15 - 09:30	1.25	TRP	2	RIH WITH BHA ANDM 138-JT'S TBG.
	09:30 - 10:00	0.50	FISH	3	LATCH INTO WHIPSTOCK SET @ 4407' (TOP) AND JAR LOOSE @ 35K OVER STRING WT.
	10:00 - 12:00	2.00	TRP	2	POOH WITH WITH TBG, BHA AND WHIPSTOCK.
	12:00 - 13:00	1.00	TRP	1	LD WHIPSTOCK AND BHA.
	13:00 - 13:30	0.50	LUN	1	LUNCH
	13:30 - 15:30	2.00	TRP	2	MU AND RIH WITH RH AND 142-JT'S 2 7/8" TBG. EOT@ 4393' SWIFN.
	15:30 - 17:00	1.50			TRAVEL TO TOWN.
10/19/2010	05:30 - 07:00	1.50	TRAV	1	10/19/10: TRAVEL TO LOCATION.
	07:00 - 07:15	0.25	OTH		CHECK PRESSURE: SICP= 75# PSI. SITP= 125# PSI.
	07:15 - 09:15	2.00	CIRC	1	WITH EOT@ 4393'. RU PUMP AND GET CIRCULATION WITH 30-BBLS 2% KCL. CIRCULATE ADDITIONAL 150-BBLS 2% KCL HEATED TO 150 DEGREES.
	09:15 - 09:45	0.50	DEQ	1	CIRCULATE ONTO AND RELEASED WRBP SET @ 4435'
	09:45 - 11:15	1.50	TRP	2	POOH WITH 144 JT'S TBG AND WRBP. LD PLUG.
	11:15 - 12:15	1.00	TRP	2	RIH WITH 144-JT'S TBG.
	12:15 - 14:30	2.25	TRP	5	POOH AND LD 144-JT'S 2 7/8" TBG. SWIFN.
10/20/2010	14:30 - 15:00	0.50	OTH		CHANGE EQUIPMENT OVER FOR 4 1/2" CSG.
	15:00 - 16:30	1.50	TRAV	1	TRAVEL TO TOWN.
	05:30 - 07:00	1.50	TRAV	1	10/20/10: TRAVEL TO LOCATION.
	07:00 - 07:15	0.25	OTH		CHECK PRESSURE: SICP= 175# PSI.
	07:15 - 07:45	0.50	WCL	2	RU LINE FROM CSG TO FLOWBACK TANK. OPEN WELL FULL OPEN.
	07:45 - 09:30	1.75	OTH		SPOT CAT WALK AND PIPE RACKS. OFF LOAD 115-JT'S OF 4 1/2", 11.6#, N-80, LT&C FRAC STRING.
	09:30 - 13:30	4.00	OTH		REMOVED THREAD PROTECTORS. CLEANED THREADS, DRIFTED AND TALLIED 115-JT'S FRAC STRING.
10/21/2010	13:30 - 14:00	0.50	CIRC	1	PUMPED 75-BBLS 10# BRINE WATER DOWN CASING. SWIFN. REC. 20-BBLS OIL AND 25-BBLS WATER.
	14:00 - 15:30	1.50	TRAV	1	TRAVEL TO TOWN.
	05:30 - 07:00	1.50	TRAV	1	10/21/10: TRAVEL TO LOCATION.
	07:00 - 07:15	0.25	WCL	2	CHECK PRESSURE: SICP= 50# PSI. BLOW DOWN TO 0- PRESSURE.
	07:15 - 08:15	1.00	WOT	4	WAITING ON FRANKS WESTATES CASING SERVICE DUE TO HEAVY FOG.
	08:15 - 09:30	1.25	CSG	1	RU FRANKS CSG SERVICE.
	09:30 - 09:45	0.25	WCL	1	PUMPED 50-BBLS 10# BRINE WATER DOWN CSG.
10/22/2010	09:45 - 15:15	5.50	CSG	2	PU AND RIH WITH 105-JT'S OF 4 1/2" 11.6# N-80 CSG. TAG LINER TOP @ 4522' SPACED OUT CSG. LD 1-JT. PU AND MU 7' PUP JT. STUNG INTO LT AND SET CSG IN SLIPS WITH 20,000# COMPRESSION. LOAD 4 1/2" CSG WITH 3-BBLS WATER. PUMPED ADDITIONAL 10-BBLS WATER WITH NO COMMUNICATION UP 7" CSG.
	15:15 - 15:45	0.50	CSG	1	RD CASING CREW.
	15:45 - 17:00	1.25	WHD	2	NU 4 1/16" 10K SCREW ON FLANGE ON CSG. NU 4 1/16" 10K FLOW TEE AND FRAC VALVE ON TOP OF FLANGE. SWIFN.
	17:00 - 18:30	1.50	TRAV	1	TRAVEL TO TOWN.
	05:30 - 07:00	1.50	TRAV	1	10/22/10: TRAVEL TO LOCATION.
	07:00 - 07:15	0.25	OTH		CHECK PRESSURE: UPPER LATERAL SI PRESSURE= 0-PSI. LOWER LATERAL SI PRESSURE= 0-PSI.
	07:15 - 09:00	1.75	OTH		RACK OUT PUMP AND TANK. RACK OUT RIG EQUIPMENT. CLEAN UP LOCATION.
10/28/2010	09:00 - 10:30	1.50	LOC	4	RDMO
	10:30 - 12:00	1.50	LOC	3	ROAD RIG TO ROOSEVELT YARD.
	06:00 - 16:00	10.00	STIM	5	"TIGHT HOLE"; Resumption of completion On 10/27/10 MIRU Halliburton frac crew. Frac the following horizontal depths using a 15% gelled acid and 16/30 sand with spacers thru stim sleeves isolated by Halliburton swell packers. All water used was 2% KCL water.

### Operations Summary Report

Well Name: SSU 2G-3-8-21  
 Location: 3- 8-S 21-E 26  
 Rig Name: BASIN WELL SERVICE

Spud Date: 7/8/2010  
 Rig Release:  
 Rig Number: 3

Date	From - To	Hours	Code	Sub Code	Description of Operations
10/28/2010	06:00 - 16:00	10.00	STIM	5	<p>Zone #1: Sleeve at 9112'. Open sleeve with a 2.375" ball and treat with 7860 gal.of acid and 19032 gal.of water with an ave.slurry rate of 33.1 BPM; Max=37.9 BPM; Total of 8600# of 16/30 sand. Max.psi=3184#; Ave=2760#.</p> <p>Zone #2: Sleeve at 8715'. Open sleeve sith a 2.60" ball and treat with 7535 gal.of acid and 9355 gal.of water with an ave.slurry rate of 33.2 BPM; Max.=35.6 BPM Total of 8800# of 16/30 sand.Max.psi=2947#; Ave=2816#.</p> <p>Zone #3: Sleeve at 8418". Open sleeve with a 2.625" ball and treat with 8083 gal.of acid and 8524 gal.of water with an ave.slurry rate of 38.2 BPM; Max=40.3 BPM; Total of 9100# of 16/30 sand. Max.psi=3652#; Ave=2749#.</p> <p>Zone #4: Sleeve at 8131' Open sleeve with a 2.750# ball and treat with 8096 gal of acid and 9296 gal of water with an ave. slurry rate of 34.7 BPM; Max=40.3 BPM; Total of 10M# of 16/30 sand. Max.psi=2651#; Ave=2349#.</p> <p>Zone #5: Sleeve at 7782'. Open sleeve with a 2.876" ball and treat with 500 gal.of acid and 8655 gal.of water with no sand as after opening sleeve van broke down and could not get into zone. No frac stimulation.</p> <p>Zone #6: Sleeve at 7478'. Open sleeve with a 3.0" ball and treat with 7992 gal.of acid and 9974 gal.of water with an ave.slurry rate of 35.3 BPM; Max=47.4' total of 9700# of sand. Max.psi=3258#; Ave=2767#.</p> <p>Zone #7: Sleeve at 7177'. Open sleeve with a 3.125" ball and treat with 7545 gal.of acid and 9289 gal.of water with an ave.slurry rate of 39.2 BPM; Max=41.1 BPM; Total of 9400# of sand. Max.psi=3050#; Ave=2787#;.</p> <p>Zone #8: Sleeve at 6845'. Open sleeve with a 3.280" ball and treat with 7533 gal.of acid and 7702 gal.of water with an ave.slurry rate of 36.6 BPM: Max=39.5. total of 9300# of sand. Max.psi=3025#; Ave=2808#.</p> <p>Zone #9: Sleeve at 6547'. Drop a 3.443" ball and attempt to open sleeve but do not believe ball is on the sleeve due to sand spike in above zone. SIFN.</p> <p>On 10/28/10 will attempt to finish stimulation on last 2 stages.</p> <p>Casing size: 4-1/2" 11.6# N-80</p> <p>Load from yesterday: 105bbl.                      Plus water today: 3215 bbl.                      LLTR: 3365.</p>
11/1/2010	05:30 - 07:00 07:00 - 10:00 10:00 - 10:15 10:15 - 10:30 10:30 - 11:00 11:00 - 12:30 12:30 - 13:00 13:00 - 14:30 14:30 - 17:00	1.50 3.00 0.25 0.25 0.50 1.50 0.50 1.50 2.50	TRAV LOC OTH WHD BOP OTH LUN WOT TRP	1 4  2 1 1 4 5	<p>11/1/10: TRAVEL TO LOCATION.</p> <p>SPOT RIG IN. HAD TO SURE UP FOUNDATION DUE TO SOFT GROUND AND RIG SINKING. FINISHED RIGGING UP.</p> <p>CHECK PRESSURE: SICP= 600# PSI. BLOW TO 0-PSI. REC-1/4 BBL.</p> <p>ND FRAC HEAD ASSEMBLY.</p> <p>CHANGE RAMS OVER FOR 2 3/8" TBG. NU BOP'S.</p> <p>RAISE AND RU DRILLERS PLATFORM. RU UP FLOOR AND TBG EQUIPMENT.</p> <p>LUNCH</p> <p>WAIT ON TBG.</p> <p>TALLY, RABBIT AND RIH WITH 100-JT'S 2 3/8" CS HYDRIL TBG. BOTTOM JOINT CUT TO A 45 DEGREE MULE SHOE. EOT @ 3020'. SWIFN.</p>
11/2/2010	17:00 - 18:30 05:30 - 07:00 07:00 - 07:45 07:45 - 12:30	1.50 1.50 0.75 4.75	TRAV TRAV WCL TRP	1 1 2 5	<p>TRAVEL TO TOWN.</p> <p>11/2/10: TRAVEL TO LOCATION.</p> <p>CHECK PRESSURE: SICP= 550# PSI. SITP= 575# PSI. BLEW WELL TO 0-PSI. RECOVERED 1/2- BBL FLUID.</p> <p>CONTINUE TO TALLY, RABBIT AND RIH WITH X-OVER AND 205-JT'S 2 3/8" TBG. TAG SAND @ 6234' ( TOP BAFFLE )</p>

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## Operations Summary Report

Well Name: SSU 2G-3-8-21  
 Location: 3-8-S 21-E 26  
 Rig Name: BASIN WELL SERVICE

Spud Date: 7/8/2010  
 Rig Release:  
 Rig Number: 3

Date	From - To	Hours	Code	Sub Code	Description of Operations
11/2/2010	12:30 - 16:15	3.75	CIRC	1	RU CIRCULATING EQUIPMENT. GET CIRCULATION WITH HOLE FULL. REVERSE CIRCULATE AND C/O SAND DOWN TO 6400'. ( 166' )CIRCULATE CLEAN,
	16:15 - 17:00	0.75	TRP	14	POOH WITH 64-JT'S TBG. EOT@ 4440'. WELL STARTED TO FLOW.
	17:00 - 17:30	0.50	CIRC	1	REVERSE CIRCULATE HOLE CLEAN. SWIFN.
11/3/2010	17:30 - 19:00	1.50	TRAV	1	TRAVEL TO TOWN.
	05:30 - 07:00	1.50	TRAV	1	11/3/10: TRAVEL TO LOCATION.
	07:00 - 07:45	0.75	WCL	2	CHECK PRESSURE: SICP= 500# PSI. SITP= 500# PSI. BLOW WELL TO 0-PRESSURE. RECOVERED 30-BBLS WATER AND OIL.
	07:45 - 08:15	0.50	WCL	1	REVERSE CIRCULATE 30-BBLS WATER TO GET OIL AND GAS OUT OF TBG.
	08:15 - 09:00	0.75	TRP	14	RIH WITH 64-JT'S TBG. RU CIRCULATING EQUIPMENT.
	09:00 - 13:00	4.00	CIRC	1	TAG SAND @ 6400'. REVERSE CIRCULATE AND C/O SAND TO 6547'. (BAFFLE) CIRCULATE CLEAN. RU TECH FOAM AIR UNIT. CONVENTIONAL CIRCULATE AND BLOW AIR AND FOAM AROUND TO UNLOAD HOLE.
	13:00 - 13:30	0.50	TRP	14	POOH WITH 67-JT'S TBG. EOT@ 4500'
11/4/2010	13:30 - 17:00	3.50	WCL	2	FLOW CSG TO FLOWBACK TANK FULL/OPEN WITH 25# PRESSURE. RECOVERED 250-BBLS FLUID. 80% OIL CUT, 0-SAND. 20# PRESSURE. TURN OVER TO FLOWTESTERS.
	17:00 - 18:30	1.50	TRAV	1	PRIOR TO TURNING WELL OVER TO TESTERS, OPENED UPPER LATTERAL UP WITH 250# PSI. FLOW 110-BBLS OIL. CLOSED UPPER LATTERAL BACK IN. WILL TRANSFER OIL AND OPEN BACK UP. SDFD.
	05:30 - 07:00	1.50	TRAV	1	TRAVEL TO TOWN.
	07:00 - 08:00	1.00	OTH		11/4/10: TRAVEL TO LOCATION.
	08:00 - 08:30	0.50	TRP	2	CHECK PRESSURE: FCP= 0-PSI. SITP= 250# PSI. BLOW TBG TO 0-PSI. PUMP 20-BBLS 2% KCL DOWN TBG TO CLEAR.
	08:30 - 10:30	2.00	TRP	5	POOH WITH 48-JT'S 2 3/8" 8RD TBG.
	10:30 - 11:30	1.00	BOP	1	FINIISH POOH LAYING DOWN 100-JT'S 2 3/8" HYDRIL TBG.
	11:30 - 12:00	0.50	OTH		RD TBG EQUIPMENT. ND UPPER SET OF BOP'S.
	12:00 - 13:30	1.50	TRP	5	CHANGE EQUIPMENT OVER FOR 4 1/2" CSG.
	13:30 - 14:45	1.25	CIRC	1	STUNG OUT OF LINER TOP @ 4522'. LD 7' PUP JT AND 2-JT'S 4 1/2" FRAC STRING. WELL U-TUBED AND STARTED FLOWING UP 4 1/2" STRING.
	14:45 - 15:30	0.75	DEQ	4	CIRCULATE 175-BBLS 2% KCL DOWN 4 1/2" AND UP 7" CSG. HOLE FILLED WITH 15-BBLS. CIRCULATED OUT 45-BBLS OIL.
	15:30 - 16:00	0.50	BOP	1	MU 7" X 5K BOWL STYLE HANGER AND LANDED 4 1/2" CSG WITH END OF STINGER@ 4449' AND TOP OF STINGER@ 4428'. WELL WAS FLOWING WATER UP 4 1/2" STRING.
	11/5/2010	16:00 - 16:30	0.50	OTH	
16:30 - 18:00		1.50	TRAV	1	CHANGE EQUIPMENT OVER FOR 2 3/8" TBG.
05:30 - 07:00		1.50	TRAV	1	TRAVEL TO TOWN.
07:00 - 07:15		0.25	OTH		11/5/10: TRAVEL TO LOCATION.
07:15 - 07:30		0.25	WCL	2	SAFETY MEETING. CHECK PRESSURE: SICP ON 7"= 250# PSI. SICP ON 4 1/2"= 150# PSI.
07:30 - 08:00		0.50	WCL	1	BLOW 4 1/2" DOWN TO 20# PSI. RECOVERED 10-BBLS OIL.
08:00 - 10:00		2.00	TRP	2	PUMPED 30-BBLS 10# BRINE DOWN 4 1/2" FRAC STRING TO CONTROL FLOW. LEFT 7" FLOWING TO FLOWBACK TANK.
10:00 - 11:00		1.00	BOP	1	PU AND RIH WITH 2 3/8" REGULAR COLLAR, 2 3/8" X 1 3/4" X 24 X 28 THMP TBG PUMP AND 141-JT'S 2 3/8" TBG.
11:00 - 12:00		1.00	CIRC	1	RD TBG EQUIPMENT. ND BOP'S. LAND TBG WITH TAIL@ 4400'. NU WELLHEAD ASSEMBLY.
12:00 - 12:15		0.25	OTH		RU HOT OILER AND FLUSHED TBG WITH 35-BBLS 2% KCL AND CHASED WITH 20-BBLS 10# BRINE WATER.
				CHANGE EQUIPMENT OVER FOR RODS.	

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## Operations Summary Report

Well Name: SSU 2G-3-8-21  
 Location: 3-8-S 21-E 26  
 Rig Name: BASIN WELL SERVICE

Spud Date: 7/8/2010  
 Rig Release:  
 Rig Number: 3

Date	From - To	Hours	Code	Sub Code	Description of Operations
11/5/2010	12:15 - 15:15	3.00	TRP	6	PU AND RIH WITH PLUNGER, 113- 3/4" SLICK RODS, 59- 7/8" SLICK RODS, 1-8', 1-6', 1-2' 7/8" PONY SUBS AND 1 1/4" X 26' POLISH ROD.
	15:15 - 15:30	0.25	TRP	18	LOAD TBG WITH 1/2-BBL WATER. LONG STROKE AND TEST PUMP AND TBG TO 800# PSI. HELD GOOD.
	15:30 - 17:00	1.50	SEQ	2	PU AND HANG HORSES HEAD. SPACED RODS OUT. HUNG WELL ON. CLEAN UP AND RACK OUT EQUIPMENT WHILE ROUSTABOUTS REMOVED WEIGHTS FROM PUMPING UNIT.
	17:00 - 18:00	1.00	OTH		ADJUSTED HORSES HEAD. TURN WELL OVER TO PRODUCTION.
11/8/2010	18:00 - 19:30	1.50	TRAV	1	TRAVEL TO TOWN.
	05:30 - 07:00	1.50	TRAV	1	11/8/10TRAVEL TO LOCATION.
	07:00 - 09:30	2.50	LOC	4	MADE SURE WELL WAS PUMPING. RACK OUT REMAINING EQUIPMENT. RDMO. LEFT WELL PUMPING.
12/20/2010	06:00 - 07:00	1.00	TRAV	1	12/20/2010 CREW TRAVEL. SAFETY MEETING.
	07:00 - 10:00	3.00	TRP	18	UNHANG RODS AND LD H HEAD. LONGSTROKE PUMP FROM 200 PSI TO 650 PSI. 6 STROKES. GOOD TEST. NO GOOD PUMP ACTION.
	10:00 - 12:00	2.00	TRP	6	POOH W/ 57 7/8" SLICK RODS. 113 3/4" SLICK RODS. PLUNGER FOR TBG PUMP AND RETREIVABLE STANDING VALVE.
	12:00 - 15:00	3.00	WCL	2	7" CSG HAD 20 PSI. 4 1/2" CSG HAD 650 PSI. BLOW DOWN WELL INTO PROD TKS.
	15:00 - 17:00	2.00	BOP	1	NDWH AND FLOWLINES. UNLAND TBG. NUBOP'S. RU RIG FLOOR.
	17:00 - 18:00	1.00	OTH		RU PUMP AND TANK. WINTERIZE PUMP. SECURE WELL. S-D-F-N.
12/21/2010	18:00 - 19:00	1.00	TRAV	1	CREW TRAVEL.
	06:00 - 07:00	1.00	TRAV	1	12/21/2010 CREW TRAVEL AND SAFETY MEETING.
	07:00 - 10:00	3.00	WOT	4	WAIT ON STUCK WTR TRUCK DRIVER AND HOT OILER.
	10:00 - 12:00	2.00	TRP	5	POOH W/ PROD TBG. 141 JTS 2 3/8", TBG PUMP, AND TAIL JT.
	12:00 - 13:00	1.00	BOP	1	X-OVER TO CSG EQUIP, RD RIG FLOOR AND NDBOP'S.
	13:00 - 14:00	1.00	TRP	5	UNLAND 4 1/2" CSG. PU AND RIH W/ 2 JTS OF 4 1/2" CSG. INSTALL CSG HANGER AND LAND CSG.
	14:00 - 15:00	1.00	BOP	1	NU BOP'S. X-OVER TO TBG EQUIP. RU RIG FLOOR.
	15:00 - 16:30	1.50	TRP	5	RIH W/ PROD TBG, TBG PUMP AND TAIL JT.
	16:30 - 17:30	1.00	BOP	1	RD RIG FLOOR. ND BOP'S. INSTALL LARKEN WELL HEAD. LAND TBG ON LARKEN WH.
	17:30 - 18:00	0.50	HOT	1	H-OILER FLUSHED TBG W/ 20 BBLS OF CHEM WTR. SECURE WELL. S-D-F-N.
12/22/2010	18:00 - 19:00	1.00	TRAV	1	CREW TRAVEL.
	06:00 - 07:00	1.00	TRAV	1	12/22/2010 CREW TRAVEL. SAFETY MEETING.
	07:00 - 09:00	2.00	HOT	1	0 PSI ON WELL. H-OILER FLUSHED TBG W/ 50 BBLS OF CHEM WTR.
	09:00 - 11:00	2.00	TRP	6	RIH W/ RETRIEVABLE STANDING VALVE, PLUNGER, 57-7/8" SLICK, 113-3/4" SLICK. SEAT VALVE.
	11:00 - 11:30	0.50	TRP	18	HOLE STANDING FULL. LONGSTROKE PUMP FROM 200 PSI TO 800 PSI. 3 STROKES. GOOD TEST, GOOD PUMP ACTION.
2/3/2011	11:30 - 12:30	1.00	OTH		INSTALL H-HEAD. REMOVE BRIDAL FOR CONSTRUCTION CREW. INSTALL NEW BRIDAL.
	12:30 - 14:00	1.50	LOC	4	RACK OUT EQUIP. WINTERIZE PUMP. RDMO.
	09:30 - 10:15	0.75	LOC	3	2/3/11: ROAD RIG 5.5 MILES TO LOCATION.
	10:15 - 11:00	0.75	OTH		DIG OUT GUY LINE ANCHORS.
	11:00 - 12:00	1.00	LOC	4	MIRU. HOT OILER HAD 90-BBLS CHEMICAL WATER DOWN 4 1/2" CSG.
	12:00 - 12:30	0.50	SEQ	2	HUNG WELL OFF. RD AND LD HORSES HEAD. SCREW PLUNGER INTO STANDING VALVE AND PULL OFF SEAT.
	12:30 - 13:00	0.50	HOT	1	FLUSHED RODS WITH 20-BBLS CHEMICAL WATER.
	13:00 - 13:45	0.75	TRP	6	POOH WITH 1 1/2 X 26' POLISH ROD, 6' PONY SUB, 8' PONY SUB, 59 7/8" SLICK RODS AND 73- 3/4" SLICK RODS.
	13:45 - 14:00	0.25	HOT	1	FLUSH REMAINING RODS WITH 15-BBLS CHEMICAL WATER.
	14:00 - 14:30	0.50	TRP	6	FINISH POOH WITH AN ADDITIONAL 40- 3/4" SLICK RODS AND PLUNGER

## Operations Summary Report

Well Name: S5U 2G-3-8-21  
 Location: 3- 8-S 21-E 26  
 Rig Name: BASIN WELL SERVICE

Spud Date: 7/8/2010  
 Rig Release:  
 Rig Number: 3

Date	From - To	Hours	Code	Sub Code	Description of Operations
2/3/2011	14:00 - 14:30	0.50	TRP	6	WITH STANDING VALVE.
	14:30 - 14:45	0.25	OTH		CHANGE EQUIPMENT OVER FOR TBG.
	14:45 - 16:00	1.25	BOP	1	ND WELLHEAD ASSEMBLY. NU BOP'S. RU TBG EQUIPMENT. SWIFN.
2/4/2011	16:00 - 17:30	1.50	TRAV	1	TRAVEL TO TOWN.
	05:30 - 07:00	1.50	TRAV	1	2/4/11: TRAVEL TO LOCATION.
	07:00 - 07:15	0.25	OTH		SAFETY MEETING. CHECK PRESSURE: SICP= LITE VAC. SITP= LITE VAC.
	07:15 - 09:00	1.75	TRP	5	POOH AND LAYED DOWN 141-JT'S 2 3/8" TBG, TBG PUMP AND 1-JT OF TBG.
	09:00 - 10:15	1.25	BOP	1	RD TBG EQUIPMENT. ND BOP'S. ND 4 1/2" INDEPENDANT WELLHEAD. NU BOP'S.
	10:15 - 11:00	0.75	CIRC	1	RU PUMP AND LINES. PUMPED 75-BBLS 2% KCL DOWN 4 1/2" CSG.
	11:00 - 13:00	2.00	OTH		0-PRESSURE @ 3-BPM . ISIP= VAC. CHANGE EQUIPMENT OVER FOR 4 1/2" CSG. INSTALLED 4 1/2" PIPE RAMS. DRAIN UP PUMP AND LINES. SWI FOR WEEKEND.
2/7/2011	13:00 - 14:30	1.50	TRAV	1	TRAVEL TO TOWN.
	06:30 - 08:00	1.50	TRAV	1	2/7/11: TRAVEL TO LOCATION.
	08:00 - 08:15	0.25	OTH		SAFETY MEETING. CHECK PRESSURE: SICP= VAC.
	08:15 - 10:00	1.75	OTH		RU HALLIBURTON ACID TRUCKS. RU FLOWBACK MANIFOLD.
	10:00 - 13:30	3.50	STIM	1	SHIFTED SLEEVE@ 6328' WITH 1800# PSI. PUMP 7500 GAL 15% HCI AND FLUSHED WITH 4000 GAL 2% KCL. ISIP= 810# PSI. DROP 3.615 BALL AND PUMP TO BOTTOM. SHIFTED SLEEVE@ 6075' WITH 3350# PSI. PUMPED 7500 GAL 15% HCI AND FLUSHED WITH 4074 GAL 2% KCL. ISIP= 776# PSI. PUMPED JOB WITH NO PROBLEMS. PRESSURE AND RATES ON STIMULATION REPORT. SWI. RD HALLIBURTON.
2/8/2011	13:30 - 16:00	2.50	PTST	2	OPEN WELL UP FULL/OPEN. 0-PRESSURE. RECOVERED 0-FLUID. TURN WELL OVER TO FLOWTESTERS.
	16:00 - 17:30	1.50	TRAV	1	TRAVEL TO TOWN.
	05:30 - 14:00	8.50	TRAV	1	2/8/11: STUCK IN SNOW DRIFTS TRYING TO GET TO LOCATION. WAITED ON AND FOLLOWED ROAD GRADER TO LOCATION. SPOT CSG CREW EQUIPMENT. SDFD DUE TO HIGH WINDS AND BAD ROAD CONDITIONS.
2/9/2011	05:30 - 07:00	1.50	TRAV	1	2/9/11: TRAVEL TO LOCATION.
	07:00 - 07:30	0.50	OTH		SAFETY MEETING. CHECK PRESSURE: SI 4 1/2" CSG= VAC. SI 7" CSG= 50# PSI.
	07:30 - 08:00	0.50	WCL	2	BLOW 7" CSG DOWN TO 0- PRESSURE. REC 2-BBLS OIL.
	08:00 - 08:45	0.75	OTH		RU HOT OILER AND LINES. STING OUT OF LINER TOP@ 4522'.
	08:45 - 11:00	2.25	HOT	1	FILLED HOLE WITH 30-BBLS 2% KCL@ 220 DEGREES. PUMPED AN ADDITIONAL 100-BBLS OF 2% KCL@ 220-DEGREES TO CLEAN WELL UP. RECOVERED 60-BBLS OIL. RU CSG CREW WHILE CIRCULATING.
	11:00 - 15:30	4.50	TRP	5	POOH LAYING DOWN 4 1/2" FRAC STRING. LAYED DOWN 104-JT'S AND SEAL ASSEMBLY.
	15:30 - 16:15	0.75	TRP	1	PICKED UP, MADE UP AND RIH WITH NEW SEAL ASSEMBLY, 3-JT'S 4 1/2" CSG AND LINER HANGER ASSEMBLY WITH 6' 2 7/8" TBG SUB.
	16:15 - 16:30	0.25	OTH		CHANGE EQUIPMENT OVER FOR 2 7/8" TBG. SWI.
	16:30 - 17:00	0.50	CSG	1	RIG DOWN CSG EQUIPMENT. SDFD.
	2/10/2011	05:30 - 07:00	1.50	TRAV	1
07:00 - 07:15		0.25	OTH		SAFETY MEETING. CHECK PRESSURE: SICP= 250# PSI SITP= 250# PSI.
07:15 - 08:00		0.75	WCL	2	BLOW WELL TO 0-PRESSURE. RECOVERED 1-BBL OIL AND PLUGGED OFF LINES.
08:00 - 09:30		1.50	CIRC	1	RU PUMP AND LINES. PUMP 80-BBLS 2% KCL DOWN WELL.
09:30 - 10:30		1.00	TRP	5	TALLY, RABBIT AND RIH WITH 30-JT'S. END OF SEAL ASSEMBLY@ 1085'. START FLOWING OIL UP THE TBG.

**CONFIDENTIAL**

## Operations Summary Report

Well Name: SSU 2G-3-8-21  
 Location: 3-8-S 21-E 26  
 Rig Name: BASIN WELL SERVICE

Spud Date: 7/8/2010  
 Rig Release:  
 Rig Number: 3

Date	From - To	Hours	Code	Sub Code	Description of Operations
2/10/2011	10:30 - 11:15	0.75	CIRC	1	CIRCULATED OIL OUT WITH 40-BBLS 2% KCL. REC. 15-BBLS OIL.
	11:15 - 17:15	6.00	TRP	5	CONTINUED TO TALLY, RABBIT AND RIH WITH TBG CIRCULATING EVERY 10 - 15 JT'S DUE TO FLOWING OIL.
	17:15 - 19:00	1.75	CSG	4	STING INTO LINER TOP@ 4522'. SET NEW LINER HANGER PER SMITH SERVICES INSTRUCTIONS. NEW LINER TOP@ 4363' WITH LINER PACKER SET@ 4380'. LD 2-JT'S. DRAIN UP EQUIPMENT. SWIFN.
2/11/2011	19:00 - 20:30	1.50	TRAV	1	TRAVEL TO TOWN.
	05:30 - 07:00	1.50	TRAV	1	2/11/11: TRAVEL TO LOCATION.
	07:00 - 07:15	0.25	OTH		SAFETY MEETING. CHECK PRESSURE: SICP= VAC. SITP= VAC.
	07:15 - 08:30	1.25	HOT	1	FLUSHED TBG WITH 20-BBLS 2% KCL. CLEANED UP BOP'S AND RIG FLOOR.
	08:30 - 09:30	1.00	TRP	2	POOH WITH TBG AND SETTING TOOL.
	09:30 - 11:30	2.00	TRP	2	MU AND RIH WITH BAR N/C, 1-JT, 7" TBG AC, 2" TBG PUMP, 144-JT'S TBG, 1-8' SUB AND 1-4' SUB.
	11:30 - 13:00	1.50	BOP	1	RD TBG EQUIPMENT. ND BOP'S. SET TBG AC@ 4317'. TOP OF TBG PUMP@ 4292' AND EOT@ 4352'. NU WELL HEAD FLANGE.
2/14/2011	13:00 - 14:00	1.00	HOT	1	RU HOT OILER AND FLUSHED TBG WITH 20-BBLS 2% KCL. DROP STANDING VALVE. LOAD TBG WITH 25 BBLS WATER. TEST TO 800# PSI. HELD GOOD.
	14:00 - 18:00	4.00	TRP	6	PU AND RIH WITH PLUNGER, 113- 3/4" PLAIN RODS, 57- 7/8" PLAIN RODS, 1-8', 1-6', 1-4' X 7/8" PONY SUBS AND A 1 1/2" X 26' POLISH ROD. WITH TBG STANDING FULL, TEST TO 800# PSI. WITH RIG IN 2-STROKES. HELD GOOD. PU AND HANG HORSES HEAD. SPACE RODS OUT. HUNG WELL ON. CHECKED FOR TAG. NO TAG. SWI. WAIT ON ROUSTABOUT TO REFIT FLOWLINE. SD FOR WEEKEND.
	18:00 - 19:30	1.50	TRAV	1	TRAVEL TO TOWN.
	05:30 - 07:00	1.50	TRAV	1	2/14/11: TRAVEL TO LOCATION.
	07:00 - 07:30	0.50	OTH		MADE SURE WELL WAS PUMPING WITH NO TAG.
	07:30 - 10:00	2.50	LOC	4	CLEANED UP AND RACK OUT EQUIPMENT. RIG DOWN AND PULL RIG AWAY FROM WELLHEAD. RACK OUT PUMP AND TANK. HAVE HOT OILER CLEAN TANK.
	10:00 - 12:00	2.00	OTH		RU HOT OILER AND STEAM WELLHEAD. CLEAN AREA AROUND WELLHEAD. SDFD. FINAL REPORT.
	12:00 - 13:30	1.50	TRAV	1	TRAVEL TO TOWN.

**CONFIDENTIAL**



# 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:  
3180 (UTU82151A)  
UT-922

RECEIVED

NOV 08 2011

NOV 02 2011

DIV. OF OIL, GAS & MINING

Nathan C. Koeniger  
QEP Energy Company  
1050 17<sup>th</sup> Street, Suite 500  
Denver, CO 80265

Re: 6<sup>th</sup> Revision of the Initial Green River  
Formation PA "A"  
Stirrup South GR Unit  
Uintah County, Utah

Dear Mr. Koeniger:

8S 21E 3  
The 6<sup>th</sup> Revision of the Initial Green River Formation PA "A", Stirrup South GR Unit, CRS No. UTU82151A, Uintah County, Utah, is hereby approved effective as of September 1, 2010, pursuant to Section 11 of the Stirrup South GR Unit Agreement.

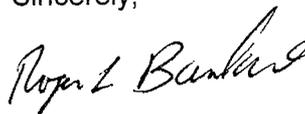
This revision results in the addition of 1,083.05 acres to the Initial Green River Formation PA "A" for a total of 2,163.12 acres and is based upon the completion of Well No. SSU 2G-3-8-21, API No. 43-047-40159, surface located in the NW $\frac{1}{4}$ NE $\frac{1}{4}$  of Section 3 with dual horizontal laterals terminating in the NE $\frac{1}{4}$ NE $\frac{1}{4}$  of Section 4, Federal Unit Tract No. 1, Lease No. UTU80636, and the SE $\frac{1}{4}$ NW $\frac{1}{4}$  of Section 2, Federal Unit Tract No. 4, State Lease No. ML2785; and Well No. SSU 13G-4-8-21, API No. 43-47-40199, located in the SW $\frac{1}{4}$ SW $\frac{1}{4}$  of Section 4 with a horizontal lateral terminating in the SE $\frac{1}{4}$ NW $\frac{1}{4}$  of Section 4, Federal Unit Tract No. 1, Lease No. UTU80636. All surface and lateral locations are in Township 8 South, Range 21 East. Both wells are not capable of producing unitized substances in paying quantities, but are necessary for unit operations pursuant to Section 11 of the unit agreement.

For production and accounting reporting purposes, all submissions pertaining to the Initial Green River Formation Participating Area "A" shall refer to UTU82151A.

Copies of the approved request are being distributed to the appropriate agencies. Please advise all interested parties of the approval of the 6th Revision of the Initial Green River Formation PA "A", Stirrup South GR Unit, and its effective date.

Please direct any questions concerning this approval to Leslie Wilcken of this office at (801) 539-4112.

Sincerely,



Roger L. Bankert  
Chief, Branch of Minerals

Enclosure

cc: UDOGM  
SITLA  
ONRR w/Exhibit B (Attn: Leona Reilly)  
BLM FOM - Vernal w/enclosure

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

FORM 6

**ENTITY ACTION FORM**

Operator: QEP ENERGY COMPANY Operator Account Number: N 3700  
 Address: 11002 EAST 17500 SOUTH  
city VERNAL  
state UT zip 84078 Phone Number: (435) 781-4369

**Well 1**

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304740159	SSU 2G-3-8-21		NWNE	3	8S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
E	17236	13241	12/1/2008			11/21/2011	
<b>Comments:</b> BLM CHANGE TO UNIT BOUNDARY- GRRN ENTIRE UNIT						2/23/2012	

**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	
<b>Comments:</b>							

**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	
<b>Comments:</b>							

**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)

RECEIVED  
FEB 22 2012

Valyn Davis

Name (Please Print) \_\_\_\_\_  
*Valyn Davis*  
 Signature \_\_\_\_\_  
 Regulatory Affairs Analyst      2/22/2012  
 Title      Date