

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

SUBMIT IN TRIPLICATE*

FORM APPROVED
OMB NO. 1040-0136
Expires: February 28, 1996

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. UTU-025963
TYPE OF WELL <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE		6. IF INDIAN, ALLOTTEE OR TRIBE NAME UTE TRIBE
OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>		7. UNIT AGREEMENT NAME N/A
2. NAME OF OPERATOR QUESTAR EXPLORATION & PRODUCTION, CO.		8. FARM OR LEASE NAME, WELL NO. WV 13D-23-8-21
3. ADDRESS 11002 E 17500 S VERNAL, UT 84078		9. API NUMBER: 43047-39663
Contact: Jan Nelson E-Mail: jan.nelson@questar.com		10. FIELD AND POOL, OR WILDCAT NATURAL BUTTE Wonsitb Valley 711
Telephone number Phone 435-781-4331 Fax 435-781-4395		11. SEC., T, R, M, OR BLK & SURVEY OR AREA SEC. 23, T8S, R21E Mer SLB
4. LOCATION OF WELL (Report location clearly and in accordance with and State requirements*) At Surface 625990 X 670' FSL 973' FWL, SWSW, SECTION 23, T8S, R21E At proposed production zone 44400674 40.103433 -109.526538		12. COUNTY OR PARISH Uintah
14. DISTANCE IN MILES FROM NEAREST TOWN OR POSTOFFICE* 11 +/- MILES EAST OF OURAY, UTAH		13. STATE UT
15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (also to nearest drig, unit line if any) 670' +/-	16. NO. OF ACRES IN LEASE 280.00	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 16,575	20. BLM/BIA Bond No. on file ESB000024
21. ELEVATIONS (Show whether DF, RT, GR, ect.) 4815.0'	22. DATE WORK WILL START ASAP	23. Estimated duration 70 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:

- | | |
|--|---|
| <ul style="list-style-type: none"> 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). | <ul style="list-style-type: none"> 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. |
|--|---|

RECEIVED
SEP 27 2007

DIV. OF OIL, GAS & MINING

SIGNED Jan Nelson Name (printed/typed) Jan Nelson
TITLE Regulatory Affairs

DATE 9-25-07

(This space for Federal or State office use)

PERMIT NO. 43047-39663 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 BRADLEY G. HILL ENVIRONMENTAL MANAGER

DATE 11-06-07

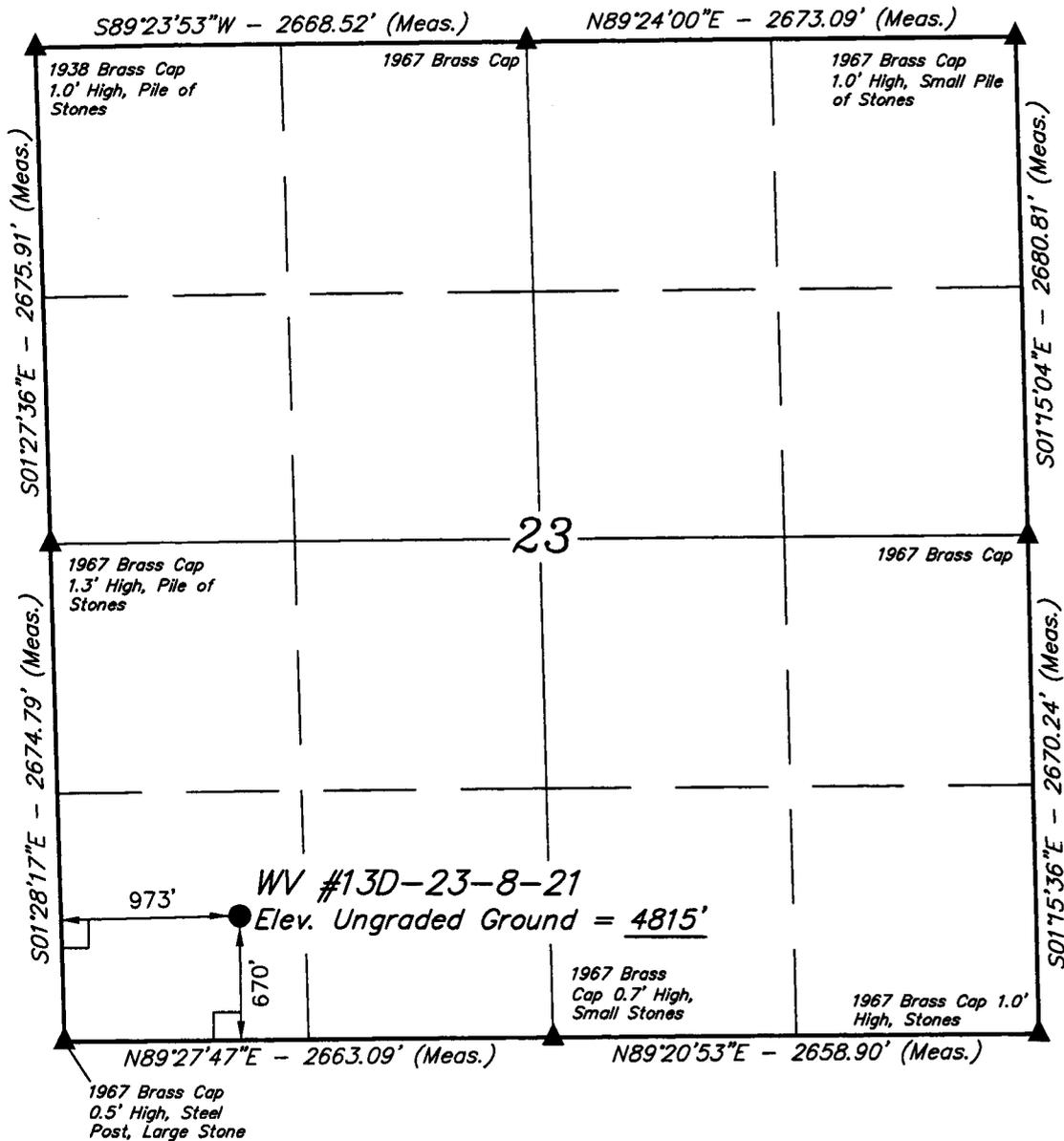
*See Instructions On Reverse Side

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**

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



(NAD 83)
 LATITUDE = $40^{\circ}06'12.42''$ (40.103450)
 LONGITUDE = $109^{\circ}31'37.63''$ (109.527119)
 (NAD 27)
 LATITUDE = $40^{\circ}06'12.55''$ (40.103486)
 LONGITUDE = $109^{\circ}31'35.15''$ (109.526431)

- LEGEND:**
- = 90° SYMBOL
 - = PROPOSED WELL HEAD.
 - = SECTION CORNERS LOCATED.

QUESTAR EXPLR. & PROD.

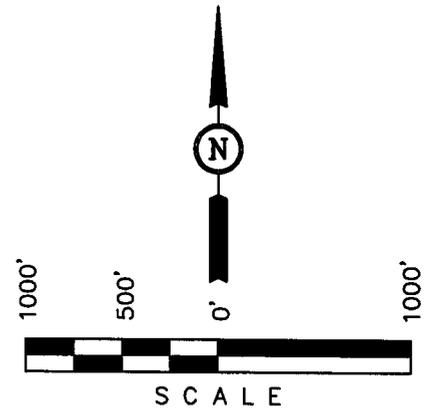
Well location, WV #13D-23-8-21, located as shown in the SW 1/4 SW 1/4 of Section 23, T8S, R21E, S.L.B.&M., Uintah County, Utah.

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.

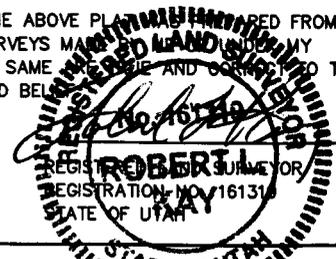
BASIS OF BEARINGS

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



CERTIFICATE

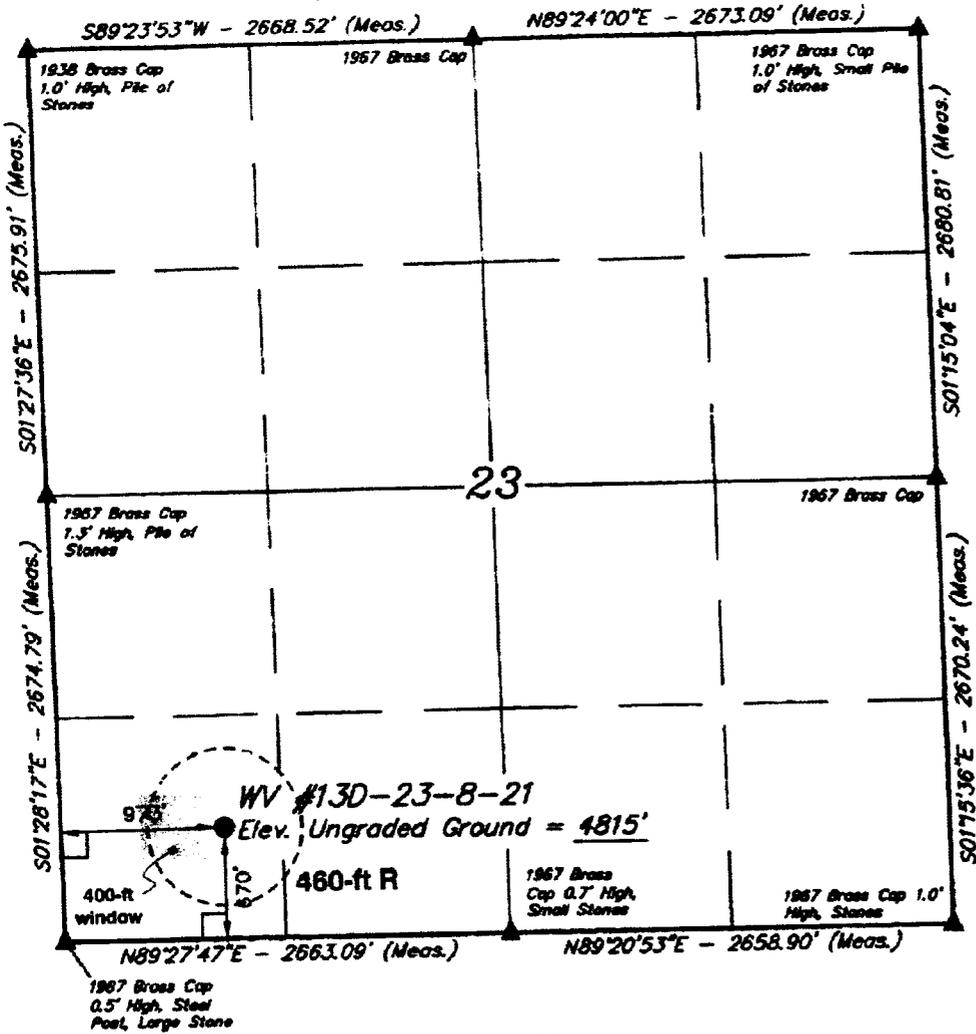
THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME AND UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



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

SCALE 1" = 1000'	DATE SURVEYED: 05-31-07	DATE DRAWN: 06-05-07
PARTY D.A. T.R. L.K.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE QUESTAR EXPLR. & PROD.	

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



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QUESTAR EXPLR. & PROD.

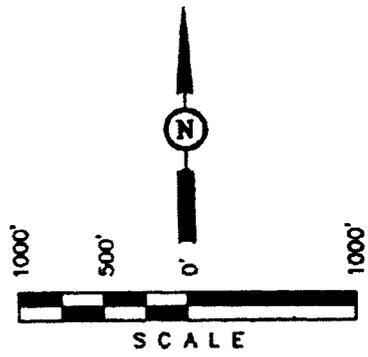
Well location, WV #130-23-8-21, located as shown in the SW 1/4 SW 1/4 of Section 23, T8S, R21E, S.L.B.&M., Uintah County, Utah.

BASIS OF ELEVATION

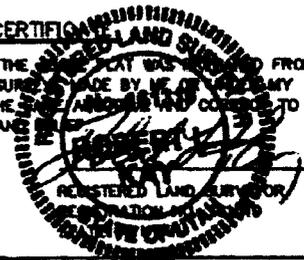
BENCH MARK 20EAM LOCATED IN THE SE 1/4 OF SECTION 35, T8S, R21E, S.L.B.&M., TAKEN FROM THE OURAY SE, QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4697 FEET.

BASIS OF BEARINGS

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



THIS IS TO CERTIFY THAT THE SURVEY PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEY MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ACCURATELY AND CORRECTLY TO THE BEST OF MY KNOWLEDGE AND BELIEF REPRESENTS THE ACTUAL SURVEY.



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

SCALE 1" = 1000'	DATE SURVEYED: 05-31-07	DATE DRAWN: 06-05-07
PARTY D.A. T.R. L.K.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE QUESTAR EXPLR. & PROD.	

Additional Operator Remarks

Questar Explor. & Prod. Co. proposes to drill a well to 16,575' to test the Dakota. 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"

Please see Onshore Oil & Gas Order NO. 1

Please be advised that Questar Explor. & Prod. Co. 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 Explor. & Prod. Co. via surety as consent as provided for the 43 CFR 3104.2.

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 and Gas No. 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

1. Formation Tops

The estimated tops of important geologic markers are as follows:

<u>Formation</u>	<u>Depth</u>
Uinta	Surface
Green River	2,464'
Wasatch	5,799'
Mesaverde	8,674'
Sego	11,174'
Castlegate	11,274'
Blackhawk	11,608'
Mancos Shale	12,050'
Mancos B	12,485'
Frontier	15,130'
Dakota Silt	16,002'
Dakota	16,202'
TD	16,575'

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 are as follows:

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
Gas	Wasatch	5,799'
Gas	Mesaverde	8,674'
Gas	Blackhawk	11,608'
Gas	Mancos Shale	12,050'
Gas	Mancos B	12,485'
Gas	Dakota	16,202'

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.

DRILLING PROGRAM

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. 13-5/8" 5000 psi double gate, 5,000 psi annular BOP (schematic included) from surface hole to 9-5/8" casing point. A 13-5/8" 10,000 psi double and single gate may be substituted based on contractor availability and substructure height of the drilling rig.
- B. 11" or 13-5/8" 10,000 psi double gate, 10,000 psi single gate, 10,000 psi annular BOP (schematic included) from 9-5/8" casing point to total depth. The choice of BOP stacks is based on the drilling contractor's availability.
- C. Functional test daily
- D. All casing strings shall be pressure tested (0.2 psi/foot or 1500 psi, whichever is greater) prior to drilling the plug after cementing; test pressure shall not exceed the internal yield pressure of the casing.
- E. Ram type preventers and associated equipment shall be tested to approved stack working pressure if isolated by test plug or to 50 percent of internal yield pressure of casing whichever is less. BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc..., for a 10M system and individual components shall be operable as designed.

DRILLING PROGRAM

4. **Casing Design:**

Hole Size	Csg. Size	Top (MD)	Bottom (MD)	Wt.	Grade	Thread	Cond.
26"	20"	sfc	40-60'	Steel	Cond.	None	Used
17-1/2"	13-3/8"	sfc	500'	54.5	K-55	STC	New
11"	9-5/8"	sfc	8500'	47	HCP-110	Flush Jnt **	New
8-1/2"	7"	8000'	12,100'	29* SDrift	HCP-110	LTC	New
6-1/8"	4-1/2"	sfc	13,700'	15.1	P-110	LTC	New
6-1/8"	4-1/2"	13,700'	16,575'	15.1	Q-125	LTC	New

Casing Strengths:				Collapse	Burst	Tensile (minimum)
13-3/8"	54.5 lb.	K-55	STC	1,130 psi	2,730 psi	547,000 lb.
9-5/8"	47 lb.	HCP-110	LTC	7,100 psi	9,440 psi	1,213,000 lb.
7"	29 lb.*	HCP-110	LTC	9,200 psi	11,220 psi	797,000 lb.
4-1/2"	15.1 lb.	P-110	LTC	14,350 psi	14,420 psi	406,000 lb.
4-1/2"	15.1 lb.	Q-125	LTC	15,840 psi	16,380 psi	438,000 lb.

* **Special Drift**

** **Flush Jnt – VAM SLIJ II**

MINIMUM DESIGN FACTORS:

COLLAPSE: 1.125

BURST: 1.10

TENSION: 1.80

Area Fracture Gradient: 0.9 psi/foot

Maximum anticipated mud weight: 15.4 ppg

Maximum surface treating pressure: 12,500 psi

DRILLING PROGRAM

5. **Auxiliary Equipment**

- A. Kelly Cock – yes
- B. Float at the bit – yes
- C. Monitoring equipment on the mud system – visually and/or PVT/Flow Show
- D. Full opening safety valve on the rig floor – yes
- E. Rotating Head – yes
If drilling with air the following will be used:
 - 1. The blooie line shall be at least 6” in diameter and extend at least 100’ from the well bore into the reserve/blooie pit.
 - 2. Blooie line ignition shall be provided by a continuous pilot (ignited when drilling below 500’).
 - 3. Compressor shall be tied directly to the blooie line through a manifold.
 - 4. A mister with a continuous stream of water shall be installed near the end of the blooie lines for dust suppression.

Surface hole will be drilled with air, air/mist, foam, or mud depending on hole conditions. Drilling below surface casing will be with water based drilling fluids consisting primarily of fresh water, bentonite, lignite, caustic, lime, soda ash and polymers. Oil based drilling mud will be used to drill the final section of the hole. The water based and oil based drilling system specifics are attached to this APD. Maximum anticipated mud weight is 15.4 ppg.

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

PVT/Flow Show will be used from base of surface casing to TD.

Gas detector will be used from surface casing depth to TD.

6. **Testing, logging and coring program**

- A. Cores – none anticipated
- B. DST – none anticipated
- C. Logging – Mud logging – 4500’ to TD
GR-SP-Induction, Neutron Density, FMI

DRILLING PROGRAM

- D. Formation and Completion Interval: Mancos interval, final determination of completion will be made by analysis of logs.
Stimulation – Stimulation will be designed for the particular area of interest as encountered.

7. Cementing Program

20" Conductor:

Cement to surface with construction cement.

13-3/8" Surface Casing: sfc – 500' (MD)

Slurry: 0' – 500'. 610 sxs (731 cu ft) Premium cement + 0.25 lbs/sk Flocele + 2% CaCl₂
Slurry wt: 15.6 ppg, slurry yield: 1.20 ft³/sx, slurry volume: 17-1/2" hole + 100% excess.

9-5/8" Intermediate Casing: sfc – 8,500' (MD)

Lead Slurry: 0' – 8,100'. 1150 sks (301 bbls) Foamed Lead 50/50 Poz cement + 0.1 % FDP-C766-05 (Low Fluid Loss Control) + 5 #/sx Silicate Compacted + 20 % SSA-1 + 0.1 % Versaset + 1.5 % Zonesealant 2000 (Foamer) Slurry wt: 14.3 ppg, (unfoamed) or 11.0 ppg. (foamed) Slurry yield: 1.47 ft³/sk (unfoamed), Slurry volume: 12-1/4" hole + 35 % excess.

Tail Slurry: 8,100' – 8,500'. 115 sks (30 bbls) Tail 50/50 Poz cement + 0.1 % FDP-C766-05 (Low Fluid Loss Control) + 5 #/sx Silicate Compacted + 20 % SSA-1 + 0.1 % Versaset Slurry wt: 14.3 ppg, Slurry yield: 1.47 ft³/sk, Slurry volume: 12-1/4" hole + 35% excess.

7" Intermediate Casing: 8,000 - 12,100' (MD)

Foamed Lead Slurry 2: 8,000' – 12,100'. 409 sks (650 cu ft) 50/50 Poz Premium + 20% SSA-1 + 3 % silicalite compacted + 3% Silicalite Compacted + 0.5% Halad 344 + 0.2% Halad 413 + 0.1% HR-12 + 0.7% Super CBL + 0.2% Suspend Slurry wt: 14.0 ppg., Slurry yield: 1.59 ft³/sk, Slurry volume: 8-1/2" hole + 25% excess.

4-1/2" Production Casing: sfc - 16,575' (MD)

Lead/Tail Slurry: 5,500 - 16,575'. 945 sks (1408 cu ft) Premium Cement + 17.5% SSA-1, + 4% Microbond HT, + 0.2% Halad 344 + 0.5% Halad 413, + 0.3% CFR-3, + 0.9% HR-12, + 0.2% Super CBL, + 0.2% Suspend HT, 17.5% SSA-2. Slurry wt: 16.2 ppg, Slurry yield: 1.49 ft³/sk, Slurry volume: 6-1/8" hole + 35% in open hole section.

*Final cement volumes to be calculated from caliper log with an attempt to be made to circulate cement to the surface on the intermediate string and 5,500' on the production string. A bond log will be run across the zone of interest and across zones as required by the authorized officer to insure protection of natural resources.

DRILLING PROGRAM

8. Anticipated Abnormal Pressures and Temperatures, Other Potential Hazards

No abnormal temperatures or pressures are anticipated. No H₂S has been encountered in or known to exist from previous wells drilled to similar depths in the general area. Maximum anticipated bottom hole pressure equals approximately 13,000 psi. Maximum anticipated bottom hole temperature is 305° F.

9. ADDITIONAL INFORMATION FOR OIL BASE MUD:

- A. See attached diagram of well pad layout. A reserve pit will be constructed for this location. This pit will be constructed so that a minimum of two vertical feet of freeboard exists above the top of the pit at all times and at least one-half of the holding capacity will be below ground level. The pit will be lined with a synthetic reinforced liner, 30 millimeters thick, with sufficient bedding used to cover any rocks prior to putting any fluids into the pit. The pad will be designed so that runoff from adjacent slopes does not flow into the reserve pit. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. At the beginning of drilling operations this reserve pit will have an open-ended dike placed in the pit that allows the fluids to migrate from one side of the pit to the other during the drilling of the surface and intermediate hole using water based mud. At the time that operations begin to drill the production hole with oil base mud, this dike will be extended, dividing the pit into two distinct, isolated halves allowing no migration of fluids from one side to the other. At that time all fluids will be removed from the end of the pit to be used as a cuttings pit. This cuttings pit will be used for oil based cuttings generated during drilling of the production hole.
- B. Oil-base mud will be mixed in the closed circulating system and transferred to four 500-bbl tanks on location for storage prior to and after drilling operations. Drip pans will be installed below the rotary beams on the substructure and can be viewed on site from the cellar area. As the production section of the hole is drilled, the cuttings transported to the surface with the drilling fluid will be mechanically separated from the drilling fluid as waste by two shale-shakers and then cleaned/dried via a mud cleaner and/or centrifuge. These separated cuttings will be collected in a steel catch tank once they leave the closed circulating system and transported and placed into the cuttings half of the reserve pit.

DRILLING PROGRAM

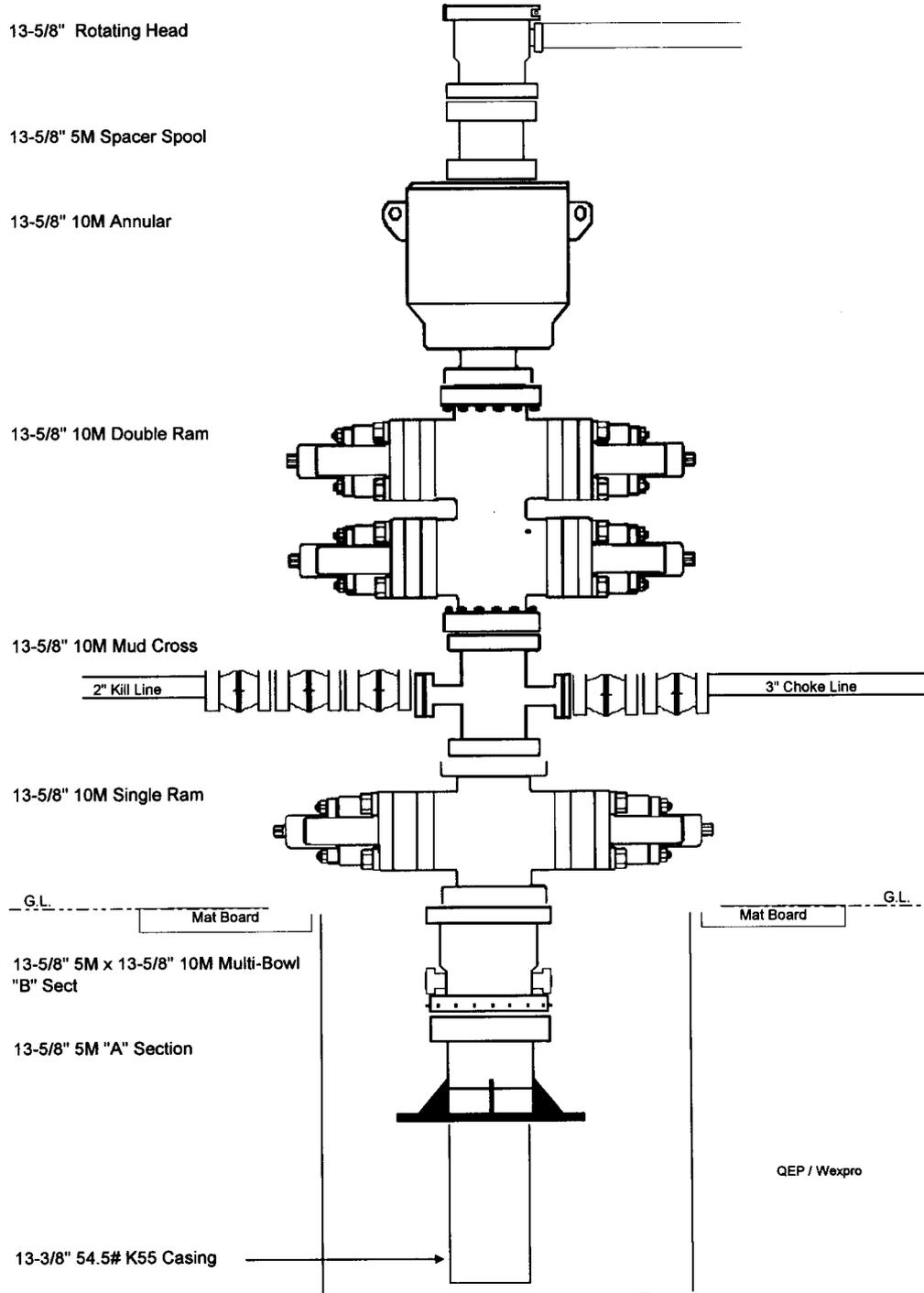
- C. Plastic material will underlay the rig, oil base mud/diesel storage tanks and mud pits. All tanks on location will be placed inside of berms. Any oily waste fluids and sediments generated at the work site during drilling operations or when cleaning the fluid containment system after drilling will also be placed into the cuttings half of the pit.
- D. All rig ditches will be lined and directed to a lined sump for fluid recovery. A drip pan will be installed on the BOP stack, a mud bucket will be utilized as needed on connections and a vacuum system will be used on the rig floor for fluid recovery in those areas.
- E. Once all waste has been placed in the cuttings portion of the pit and all necessary approvals obtained, the oilfield waste management consultant Soli-Bond or a similar company will mobilize equipment and personnel to the site to perform the cement based solidification/stabilization process in-situ for encapsulation. Soil will be backfilled over the processed material used on the cuttings side of the pit and that portion of the pit area will be returned to the existing grade bordering the pit. Please see the attached Soli-Bond Proposal for Processing and Disposal of Drilling Waste for specific details. The half of the reserve pit containing water base materials will be left to evaporate and will be closed and reclaimed at the time that portion of the pit is dry.

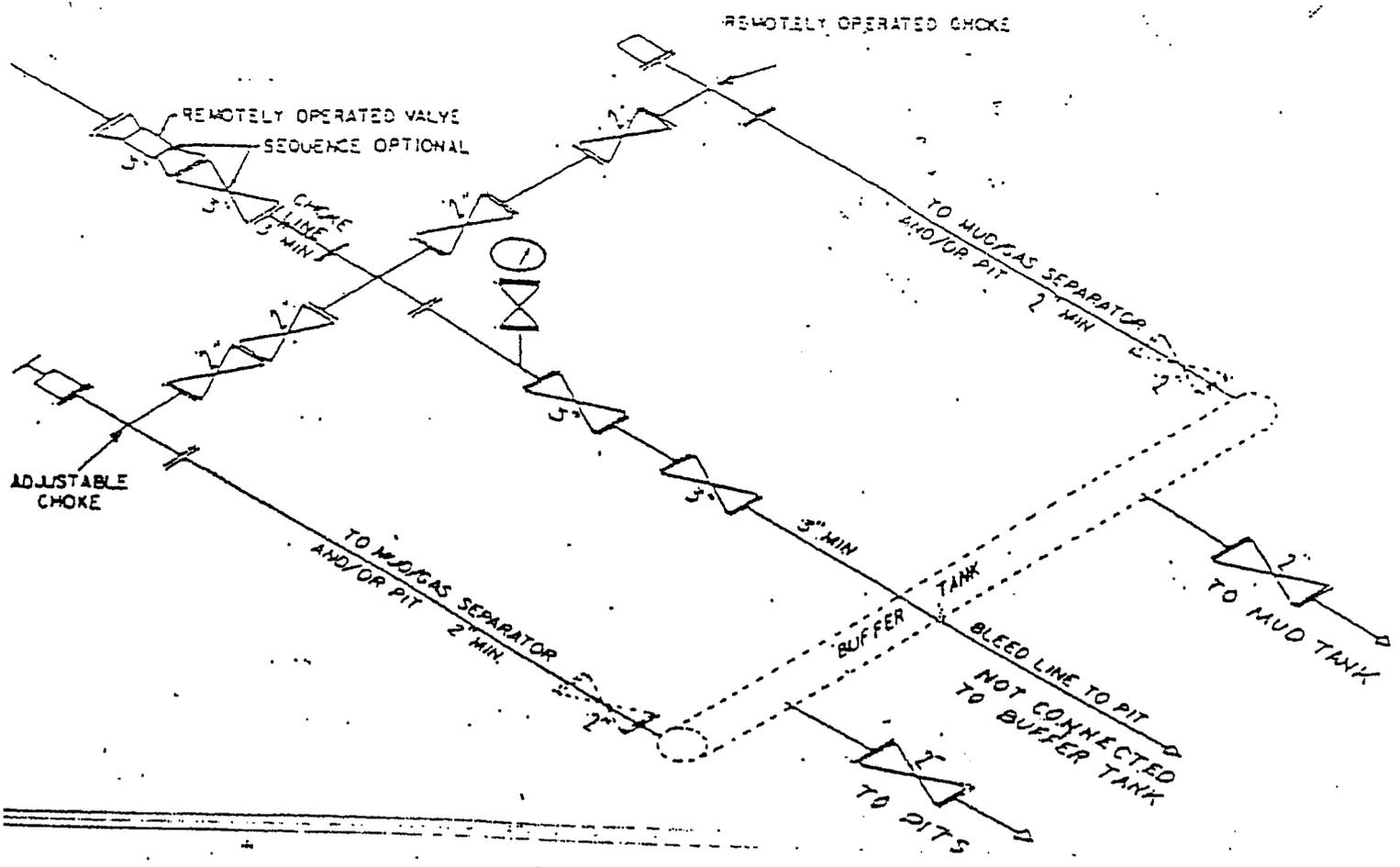
10. **Surface Ownership:**

The well pad and access road are located on lands owned by:
Ute Tribe
PO Box 70
Ft. Duchesne, UT 84026

DRILLING PROGRAM

BOP Requirements:

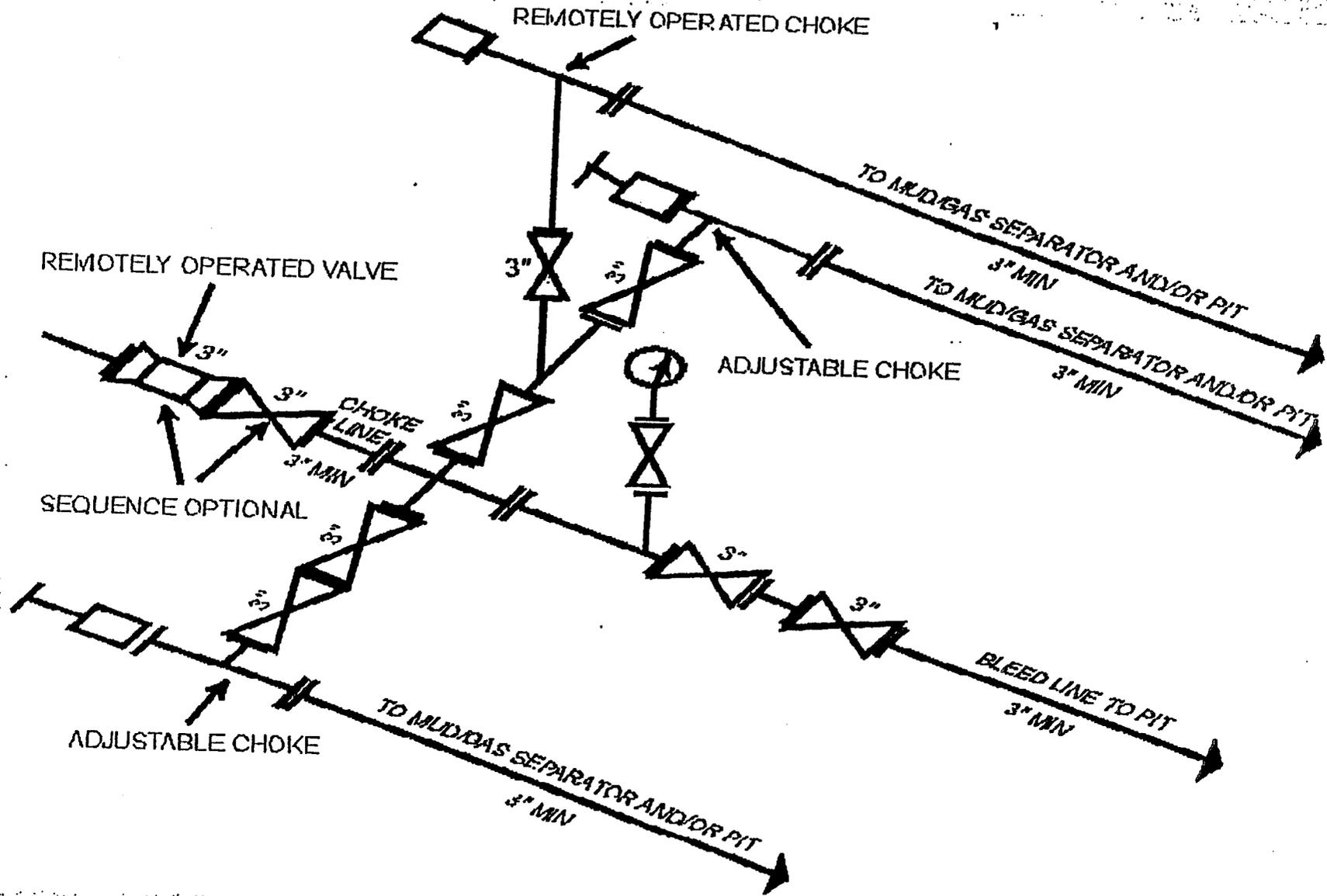




② 5M CHOKE MANIFOLD EQUIPMENT — CONFIGURATION OF CHOKES MAY VARY

[FR Doc. 88-25738 Filed 11-17-88; 2:45 am]
DRAWING CODE 4310-34-C

Attachment I. Diagrams of Choke Manifold Equipment

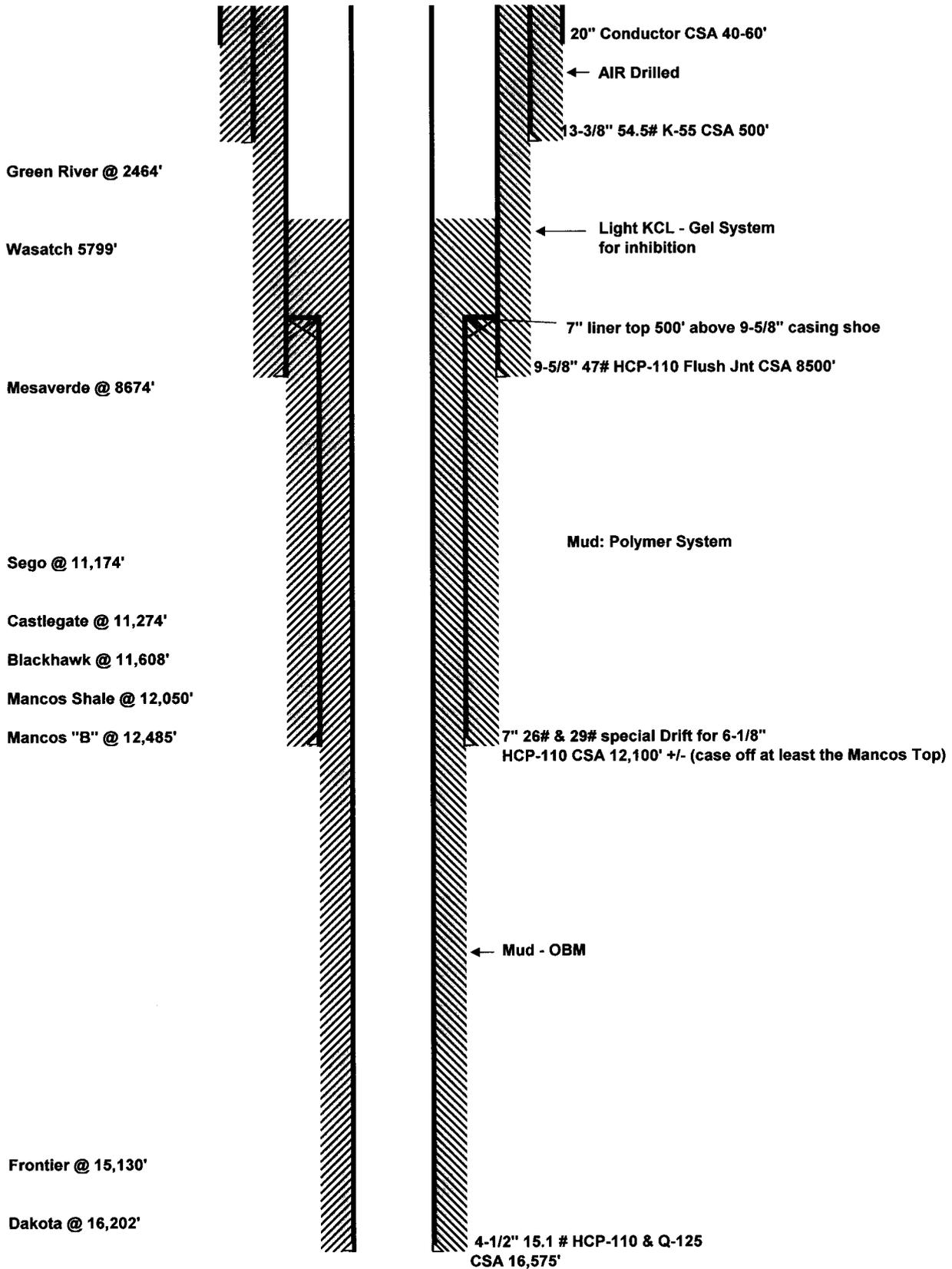


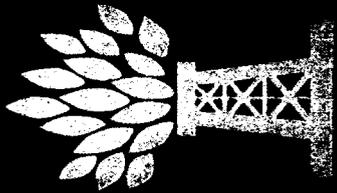
I-4 10M and 15M Choke Manifold Equipment -- Configuration of chokes may vary

[54 FR 39328, Sept. 27, 1989]

Last Updated March 25, 1997 by John Broderick

WV 13D-23-8-21





NEWARK

D R I L L I N G F L U I D S , L L C

**Questar
Exploration &
Production Company**

WV 13D-23-8-21

***Sec 23-T8S-R21E
Uintah County, Utah***

Drilling Fluids Program

***410 17th Street, Suite 460 Denver, CO 80202
(303) 623-2205 (720) 904-7970 Fax***



Newpark Drilling Fluids, LP

410 17th Street, Suite 460

■ Denver, Colorado 80202

■ (303) 623-2205

■ FAX (720) 904-7970

August 9, 2007

Mr. Jim Davidson
Chief Drilling Engineer
Questar Exploration & Production
1331 17th Street, Suite 800
Denver, Colorado 80202

RE: WV 13D-23-8-21
Sec 23-T8S-R21E
Uintah Co, Utah

Mr. Davidson:

Newpark Drilling Fluids, LP is pleased to present the enclosed revised recommended drilling fluids program for the WV 13D-23-8-21 well to be drilled in Uintah County, Utah.

The Surface Interval will be drilled with air to a depth of 500 ft.

For the Intermediate Interval, it is recommended to drill out with 3% KCL water pumping NewGel sweeps as needed for hole cleaning. At 5500-5600 ft or before drilling into the Wasatch @ 5799', mud up to a 3% KCL/Polymer system. Trona water flows in this area may require a mud weight of 9.5 ppg to control. Use this fluid to casing point at 8,500'

In the Liner interval, drill out with the fluid from the previous interval. Discontinue additions of KCL. Allow KCL to deplete through dilution allowing the system to convert to a NewPHPA/Polymer system. Mud weight in this interval is expected to be in the 12.0-12.5 range at the 12,100 ft liner interval T.D.

In the Production interval, displace to a 12.0-13.0 ppg OptiDrill OBM system. Maintain fluid density as low as possible to increase penetration rates and reduce the possibility of lost circulation. Use high weight pills for well control during; trips, logs, and casing operations. Mud weight at T.D. is expected to be at +/-15.0 ppg.

The projected drilling time for this project is 65-70 days with an estimated material and engineering cost of \$500,000.00 assuming no unusual delays or problems are encountered. The estimate is based on minimal losses and a 15.0 ppg mud weight at TD. Costs will increase dramatically if severe losses are encountered.

All sack material and bulk barite will be furnished from our Grand Junction, Colorado facility, with OBM supplied from Newpark's Boulder, WY facility.

If you have any questions following your review of this proposal, please call.

Regards,

Estes Ward
Operations Manager
Newpark Drilling Fluids, LP

Project Summary

Questar
Exploration & Production
WV 13D-23-8-21
Sec 23-T8S-R21E
Uintah, County Utah

Depth (ft)	Formations	Interval Comments	Mud Weight (ppg)	Mud Properties
500'	Uinta Surface T.D.	Hole size: 17 1/2" / Casing: 13 3/8" AIR DRILLED	NA	NA
2,464'	Green River Mahogeny	KCL/NewPHPA Hole size: 11.0" / Casing: 9 5/8" Flush Joint Drill out with water, adding KCL for 2-3%. Pump pre-hydrated NewGel sweeps for hole cleaning. For seepage, incorporate fine LCM into the NewGel sweeps.	8.6	Vis (sec/qt): 28-40 PV (cp): 0-12
5,799'	Wasatch	Begin mud up operations at +/- 5500 ft or before drilling into the Wasatch. It is recommended to have the KCL % at 3.0 or > before drilling into the Wasatch.	9.0	YP (#s/100ft ²): 0-10 FL (ml/30 min): 8-10 LGS %: 3-5 pH: 10.0-10.5
8,500'	Intermediate T.D.	Maintain the fluid loss at 8 mls with AquaBloc/NewPac. Maintain rheology control with NewEdge, CFL II, and DrillThin. Maintain hardness at 100 mg/l or > with lime/Gyp additions. As seepage is encountered, pump LCM sweeps as conditions dictate. Mud weight at T.D. is expected to be in the 9.4-9.5 ppg range	9.5	Cl (mg/l): 11-15K KCL %: 2.5-3.0
8,674'	Mesa Verde	NewPHPA Hole size: 8.5" / Liner: 7"	9.8	Vis (sec/qt): 40-45 PV (cp) : 12-20
11,174'	Sego	Drill out, running fresh water, allowing the KCL % to drop. Maintain properties as recommended and increasing the PHPA concentration to 1.0 ppb.	10.4	YP (#s/100ft ²) : 10-12
11,274'	Bucktongue	Lost circulation may be a problem in this interval. If lost circulation is encountered, pump LCM pills as needed. If LCM pills will not control losses, by-pass the shakers and increase the LCM concentration in the system as needed.	11.4	FL (ml/30 min): 6-8
11,608'	Castlegate	If severe lost circulation is encountered, consider a DynaPlug squeeze.	11.6	LGS %: 3-5 pH: 10.0-10.5
12,050'	Blackhawk	Hole instability may be encountered in the Mesa Verde. Monitor torque, pump pressure, connection fill, and trip conditions for indications of hole instability and consider adding Asphalt if hole conditions dictate.	12.4	Cl (mg/l): 11-15K KCL %: 0
12,100' +/-	Liner T.D.			
12,485' MD	Mancos B	OptiDrill OBM Hole size: 7.0" / Casing: 4-1/2" Drill out with the OptiDrill system, treating cement contamination as needed with OptiWet to prevent shaker blinding.	12.5	PV (cp): 25-35 YP (lbs/100ft ²): 8-10 HPHT (mls/30 min.) : <20 O/W : 80:20 - 85:15
15,130' MD	Frontier equiv.	Maintain hole cleaning during high ROP's with high viscosity sweeps. Use a 1:1 ratio of OptiVis RM and OptiVis .		ES: 500+
16,202' MD	Dakota Silt Dakota	CO2 in the gas stream while drilling under balanced will require additional Lime, emulsifiers and wetting agent.		Lime: 2-4 ppg
16,575' MD	Total Depth	Maintain mud weight as needed for well control. Spot high weight ECD pills for trips, logs, and casing operations.	15.5	LGS %: < 6



Newpark Drilling Fluids, LP

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Project Summary

Questar
 Exploration & Production
 WV 13D-23-8-21
 Sec 23-T8S-R21E
 Uintah, County Utah

DRILLING FLUID PROPERTIES

Surface Hole: Air Drilled

Hole Size (in)	TVD (ft)	Mud Weight (ppg)	Plastic Viscosity (cp)	Yield Point (lb/100ft ²)	API Fluid Loss (ml/30min)	Total Solids (%)
17 1/2 "	0-500'	NA	NA	NA	NA	NA

Intermediate Hole: KCL Water NewGel Sweeps - KCL/PHPA

Hole Size (in)	MD (ft)	Mud Weight (ppg)	Plastic Viscosity (cp)	Yield Point (lb/100ft ²)	API Fluid Loss (ml/30min)	KCL (%)	LGS Solids (%)
11"	500-5,500'	8.5-8.6	NA	NA	NA	2-3	< 1%
11 "	5,500'-8,500'	8.6-9.4	8-12	10-12	8-10	3.0	3-6

Liner Interval: NewPHPA

Hole Size (in)	MD (ft)	Mud Weight (ppg)	Plastic Viscosity (cp)	Yield Point (lb/100ft ²)	API Fluid Loss (ml/30min)	LGS Solids (%)
8 1/2 "	8,500'-12,100'	12.0-12.5	15-25	10-15	6-8	3-6

Production Interval: OptiDrill OBM

Hole Size (in)	MD (ft)	Mud Weight (ppg)	Plastic Viscosity (cp)	Yield Point (lb/100ft ²)	O/W Ratio (%)	HPHT Fluid Loss (ml/30min)	CaCL (mg/l) X 10,000	Electrical Stability (mv)	LGS Solids (%)
7.0 "	12,100'-16,575'	15.0-15.5	25-35	8-12	85/15	12-15	250-350	500 +	3-6

- Drilling fluid properties are guidelines only.
- Mud weights for guidelines only, allow hole conditions to dictate actual mud weights.
- Hole conditions should be closely monitored and product mix adjusted accordingly.



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Intermediate Interval

11" Hole (500' - 8,500')

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Intermediate Interval Drilling Fluid Properties

Depth Interval (TVD)	Mud Weight (ppg)	Viscosity (sec/qt)	Plastic Viscosity (cp)	Yield Point (lb/100ft ²)	pH	API Fluid Loss (ml/30min)	Hardness (Mg/l)	Low Gravity Solids	KCL %
500'-5,500'	8.5-8.6	27-28	NA	NA	10.0-10.5	NA	100+	< 1.0	2.0-3.0
5,500'-8,500'	9.0-9.5	38-45	10-15	8-12	10.0-10.5	8-10	100+	3-6	3.0+

- Drill out mixing KCL for 3%. Pump pre-hydrated NewGel sweeps for additional hole cleaning and as hole conditions dictate. Add LCM to the sweeps for seepage.
- Mud up at 5,500 ft + to a KCL/Polymer system with properties as outlined above.
- If seepage is encountered, pump LCM sweeps as needed.
- Before drilling into the Wasatch, increase the KCL concentration to 3% or better.
- If Trona water is encountered, treat with Lime as needed for a 10.2 pH and 100 mg/l hardness.
- Mud weight at Intermediate T.D. is expected to be in the 9.2-9.4 ppg range.

<i>Challenges:</i>	<i>Strategies:</i>
Bit Balling	Use New Ease 203 (1-2 gal. down the drill pipe on connections) SAPP and Soap Sticks to prevent balling and to increase penetration rates.
Water Flows (Trona)	If water flows become excessive, mud up and increase mud weight as needed for control. Treat carbonate contamination with Lime/ Calcium Chloride as needed.
Lost Circulation	For seepage pump 50 bbl sweeps with 5-10 ppb DynaFiber and 10-20 ppb NewCarb as needed. For partial or total losses pump sweeps with 10-15 ppb FiberSeal and Cedar Fiber . If losses are not controlled with sweeps consider 10-15% LCM in active system. If losses are severe the use of a DynaPlug Squeeze is strongly recommended.
Differential Sticking	Maintain mud weight as low as possible. Control Low Gravity Solids below 6%, and control fluid loss at 8-10 mls/30 min.
Increase ROP with PDC Bits	Pump 20-40 bbl. Sweeps with NewEase 203, New100N, DynaDet, and SAPP. (FlexDrill Sweeps)
Hole Instability/Sloughing Shale	Consider additions of Asphalt at 4-6 ppb and/or Potassium Silicate at 1-2 ppb.



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Intermediate Interval

11" Hole (500' - 8,500')

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Offset Data:

Some wells in this area have experienced losses in the Wasatch formation. LCM sweeps are strongly recommended for this reason. Mud weights should be kept as low as practical but increases to 9.5 ppg may be required to control the Trona Water flows which can be encountered from 3,000-4,000'.

Fluid Recommendations:

- Drill out cement, float collar and new formation. Test the integrity of the casing seat and squeeze if necessary.
- Close in pits and begin additions of **KCL**, **building to 3% before drilling the Wasatch**. Maintain **3% KCL** throughout the interval.
- If a Trona Water flow is encountered additions of **Lime** and/or **Calcium Chloride** should be used to adjust alkalinities as needed. An increase of mud weight to 9.5 may be necessary to control water flows in this area.
- The use of a premix tank is highly recommended. Pre-Hydrate **NewGel** for use as sweeps and for viscosity when a mud up is started at +/- 4,000'. Fill premix tank with fresh water. Treat out hardness with **SodaAsh** as needed. Add 0.25-0.5 ppb **Caustic Soda** for a 10.0-10.5 pH. Begin additions of 20-25 ppb **NewGel** allow sufficient circulating time for maximum hydration. Add 1.0-2.0 ppb **CFL II**. Then mix additional **NewGel** (30-40 ppb total) or a 120+ funnel viscosity. The pre-hydrated bentonite can be pumped from the premix to the pill tank and pumped downhole for sweeps or can be added slowly to the **3% KCL** water for viscosity and rheology control.
- At 5,500'-6,000' (or before drilling into the Wasatch formation) begin a mud up. Add pre-hydrated **NewGel** from the premix tank to the active system to increase funnel viscosity to 35-40 sec/qt. Maintain viscosity with pre-hydrated **NewGel** as needed. The system should be monitored and additions of **KCL** be adjusted to maintain **3% KCL**.
- Rheology can be enhanced with additions of .25-1.0 ppb **Flowzan** as needed.
- Reduce Fluid Loss to 8-10CC/30min with additions of 0.5-1.0 ppb **NewPAC** and/or 2-4 ppb **Aqua Bloc** by 5,500' and lower to 6-8 CC/30min prior to TD at 11,900'.
- If penetration rates slow sweeps with **New 100N**, **NewEase 203**, **SAPP**, and **DynaDet** should be considered. (**1% New 100N**, **1% NewEase 203**, **0.5-0.75 ppb SAPP**, **0.2 % DynaDet**). "**Flex Sweeps**"
- If an increase in mud weight is necessary seepage and/or lost circulation may become a problem. For seepage pump 20-30 bbl pills containing a combination of **NewCarb** and **DynaFiber** mixed at a 2:1 ratio.
- If losses become severe, LCM sweeps of **Cedar Fiber** and **FiberSeal** should be considered and incorporated into the system as needed. If losses continue, increase coarse LCM in active system to 15-20%. If losses continue the use of a **DynaPlug** Squeeze is strongly recommended.
- At TD increase funnel viscosity for logs and casing operations as hole conditions dictate. Suggest funnel viscosity be increased to 45-50 sec/qt, before logging operations be attempted.



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Liner Interval

8 1/2" Hole (8,500'- 12,100')

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Exploration & Production
WV 13D-23-8-21
Sec 23-T8S-R21E
Uintah, County Utah

Liner Interval Drilling Fluid Properties								
Depth Interval (TVD)	Mud Weight (ppg)	Viscosity (sec/qt)	Plastic Viscosity (cp)	Yield Point (lb/100ft ²)	pH	API Fluid Loss (ml/30min)	Hardness (Mg/l)	Low Gravity Solids
8,500'- 12,100'	12.0-12.5	40-50	18-25	10-15	10.0-10.5	6-8	100+	3-6

- After drilling out discontinue additions of KCL, allowing system to revert to a fresh water polymer system.
- As mud weight is increased, seepage losses can become severe. Treat with LCM pills as needed. If pill treatments will not contain the losses at reasonable levels, by-pass the shakers, retaining the pills and allowing the LCM concentration to increase as needed.
- Hole instability can occur in the Mesa Verde in this area. If encountered, consider adding Asphalt, building to a 4-6 ppb concentration.
- High pressure may be encountered in the Castlegate/Blackhawk. Monitor closely for increased pressure while drilling and use caution on trips to minimize possible swabbing.
- Mud weight at Liner Interval T.D. is expected to be in the 12.0-12.5 ppg range.

<i>Challenges:</i>	<i>Strategies:</i>
Hole Instability/Sloughing Shale	Consider 4-6 ppb Asphalt
Increase in Formation pressure	Monitor well conditions and increase density as needed with NewBar as needed.
Seepage/Lost Circulation	As mud weight is increased (10.0ppg +) seepage and losses may become a problem. For seepage pump 50 bbl sweeps with 5-10 ppb DynaFiber and 10-20 ppb NewCarb as needed. For partial or total losses pump sweeps with 10-15 ppb FiberSeal and Cedar Fiber . Severity of losses will determine size and quantity of LCM added. If losses are not controlled with sweeps consider 10-15% LCM in active system. For severe losses the use of a DynaPlug squeeze should be considered.
Differential Sticking	Maintain mud weight as low as possible. Control Low Gravity Solids below 6%, and control fluid loss at 8-10 mls/30 min.
Increase ROP with PDC Bits	Pump 20-40 bbl. Sweeps with NewEase 203, New100N, DynaDet, and SAPP. (FlexDrill Sweeps)



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Liner Interval

8 1/2" Hole (8,500' - 12,100')

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WV 13D-23-8-21
Sec 23-T8S-R21E
Uintah, County Utah

Offset Data:

Wells in this area have experienced losses as mud weights are increased to control formation pressure. LCM sweeps are strongly recommended for this reason. Mud weights should be kept as low as practical but increase to 12.5 ppg may be required by Liner TD at 12,100'.

Fluid Recommendations:

- Drill out cement, float collar and new formation with the system from the previous interval. Test the integrity of the casing seat and squeeze if necessary.
- Discontinue additions of **KCL**. Allow **KCL** to naturally dissipate by dilution with fresh water. Begin additions of 0.5-1.0 ppb **NewPHPA** and maintain throughout the interval.
- Maintain viscosity with PreHydrated **NewGel** until chlorides have dropped below 5000-7000 mg/l. After chlorides have dropped **NewGel** will not need to be pre-hydrated and can be added directly to the system.
- Begin additions of **NewPHPA**. Concentration of **NewPHPA** should be maintained at 0.5-1.0 ppb throughout the interval. As mud weight increases additions of **PHPA** should be switched from **NewPHPA DLMW** to the shorter chain **NewPHPA DSL**.
- If hole conditions dictate, consider 4-6 ppb Asphalt.
- If penetration rates slow sweeps with **New 100N**, **NewEase 203**, **SAPP**, and **DynaDet** should be considered. (1% **New 100N**, 1% **NewEase 203**, 0.5-0.75 ppb **SAPP**, 0.2 % **DynaDet**). "**Flex Sweeps**"
- Increase mud weight as needed to control formation pressures as needed. Mud weights should be maintained as low as practical to reduce chance of losses and differential sticking. Increase mud weight as needed with **NewBar**.
- As density increases additions of **NewEdge** and/or **DrillThin** should be added for rheology control.
- As bottom hole temperatures increase and additional fluid loss control is desired supplement the **NewPAC** with **DynaPlex** for fluid loss control. Lower API filtrate to 6-8 cc's with additions of **NewPAC** and **DynaPlex**.
- As mud weight is increased seepage and/or lost circulation may become a problem. For seepage pump 20-30 bbl pills containing a combination of **NewCarb** and **DynaFiber** mixed at a 2:1 ratio. If partial or total returns are encountered, LCM sweeps with a varied size distribution including **Cedar Fiber** and **Fiber Seal**, **PhenoSeal** and other assorted sizes should be considered and incorporated into the system as needed. 20-25% LCM in the active system may be required. The type, size and quantity of LCM used will depend on the severity of losses. If losses are severe a **DynaPlug** squeeze should be considered.
- At TD increase funnel viscosity for logs and casing operations as hole conditions dictate. Suggest funnel viscosity be increased to 50-55 sec/qt, before logging or casing operations be attempted.
- While circulating casing it is recommended to reduce Yield Points for cementing operations.



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Production Interval

6 1/8" Hole (12,100'-16,575')

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WV 13D-23-8-21
Sec 23-T8S-R21E
Uintah, County Utah

Production Interval Drilling Fluid Properties

Depth Interval (TVD)	Mud Weight (ppg)	Plastic Viscosity (cp)	Yield Point (lb/100ft ²)	O/W Ratio %	HTHP Fluid Loss (ml/30min)	Excess Lime (PPB)	Electrical Stability (MV)	Low Gravity Solids	CaCl Mg/l Water
12,100'-16,575'	15.0-15.5	25-35	8-10	85:15	12-15	2-4	500+	< 6	300K

Drilling Fluid Recommendations: (12,100'-16,575')

- Displace to a OptiDrill OBM after finishing the liner job at 12,100'.
- After displacement, maintain the OptiDrill system within the parameters outlined above.
- Offsets in the area have encountered high rates of seepage in this interval. If indications of seepage are observed, sweeps of **NewCarb C**, **Dynafiber C & M**, **NewSeal**, and **CyberSeal** are recommended. Mixing ratios are recommended to be at 5:1 **NewCarb M** to **DynaFiber**, **NewSeal**, and **CyberSeal**. If losses continue to be a problem, consider trying different sizes and combinations until seepage is slowed.
- Maintain rheology low to reduce ECD values and reduce surge and swab during connections and trips.
- Drill as underbalanced as possible to help prevent losses and increase penetration rates.
- For pressure control, spot high weight pills with an equivalent mud weight to drilling ECD's. On trips in, stage these pills out and divert to storage for further use. High weight pills in excess of the drilling ECD should be avoided due to possible lost circulation.

Challenges	Strategies
Displacement	<ul style="list-style-type: none"> • Have 1200-1300 bbls of OBM volume on location along with a pump capable of keeping up with displacement rates. • Pump a 10-20 bbl viscosified OBM spacer ahead of the OptiDrill (enough for 500 ft + separation) • A steady pump rate for either turbulent or plug flow should be used. Reciprocate and rotate to assist in minimizing channeling. • Do not shut down once displacement commences. • Should any contamination occur, isolate the contaminated fluid for reconditioning.
Seepage/lost Circulation.	Pump LCM sweeps when seepage and/or losses are indicated. Sweeps should be a mixture of , NewCarb, DynaFiber, NewSeal, and CyberSeal. If lost returns are encountered, consider a Diaseal M or cross linked polymer squeeze.
Maintaining Oil wet solids	For every 1.0 ppg mud weight increase, mix 0.02 gal/bbl OptiWet
Pressure control	<ul style="list-style-type: none"> • Spot weighted pills calculated to give a bottom hole pressure equal to drilling ECD. • Do not exceed drilling bottom hole pressure with the ECD pill. Lost circulation has been a problem on offset wells. • Stage weighted pills out of the hole and recover for future use.



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Production Interval

6 1/8" Hole (12,100' - 16,575')

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Maintenance Procedure:

HPHT - Maintain HPHT values within programmed parameters. Additions of **OptiMul** and **OptiPlus**, at recommended concentrations should maintain the HTHP at recommended levels. If hole conditions indicate a need for lower HPHT values, **Opti G** at 2-4 ppb is recommended.

Electrical Stability— Electrical stability should be used as a guide not as an absolute in determining maintenance requirements. Actual values are not critical but should be observed for trends or changes. Decreases in electrical stability should be noted along with other mud properties to determine treatments. To increase electrical stability add emulsifiers and wetting agents **OptiMul** and **OptiPlus** or decrease water content.

Oil/Water Ratio - Maintain the oil/water ratio in the 90:10-80:20 range depending on mud weight and condition.. Higher water content will decrease the amount of **OptiVis** needed for rheology.

Mud weight - Maintain minimum fluid densities with solids equipment. Monitor hole conditions and all drilling parameters closely for indications of increases in formation pressures and adjust fluid densities accordingly. Drilling with a minimum amount of overbalance will reduce the possibility of losing returns and/or of differentially sticking the drill string. Mud weight on offset wells was in the 15.0-15.5 ppg range at T.D.

Rheology - Maintain solids as low as possible. Increase rheology as needed for hole cleaning with a combination of **OptiVis (Bentone 910)** and **Opti Vis RM** or **Opti Vis PS** and water content.

Lime - Maintain the excess Lime at 2-3 ppb excess.

Hole cleaning - Calculate rheology requirements based on ROP, pump rates and hole conditions. Adjust as needed .

Mud losses downhole—Monitor ECD's with Hy-Calc, maintaining the lowest values possible. If losses are encountered; sweeps containing **NewCarb**, **DynaFiber**, **Opti-G**, and **NewSeal** should be circulated to aid in the prevention of losses. If seepage losses continue and/or become severe, consider spotting a pill with **Magma Fiber (Fine & Regular)** and the above formulation. Keep the hole full at all times, and avoid excessive swabbing and/or surge actions when tripping.

Solids Control - Maintain low gravity solids at 4-6 % by volume. The high performance shakers should be equipped with the finest mesh screens that will handle the circulating volume and not cut barite out.

Water Contamination— Keep all water sources off the mud pits. If contamination occurs, treat with emulsifiers and Calcium Chloride as needed.



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Production Interval
6 1/8" Hole (12,100' - 16,575')

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Sec 23-T8S-R21E
Uintah, County Utah

Recommended materials for relaxed filtrate OptiDrill system :
(85:15 Oil/Water Ratio)

Product	Function	Concentration
NewBar	Weighting material	As needed
OptiVis	Organophilic Clay / Viscosifier	2-4 ppb
OptiMul	Primary Emulsifier	2.0 ppb
OptiPlus	Secondary Emulsifier	4.0 gal/bbl.
OptiVis RM	Low End Rheology Modifier	0.1-0.2 ppb
Calcium Chloride Water	Internal Phase	10.0%-20.0 % by volume
Calcium Chloride	Salinity/Activity	300,000 - 350,000 mg/l
OptiG	Fluid Loss control Additive	1.0-4.0 ppb
Lime	Alkalinity Additive	5 ppb
NewCarb M	Loss Circulation Material	10.0 ppb
NewCarb F	Loss Circulation Material	As required
DynaFiber	Loss Circulation Material	As required



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OILFIELD WASTE MANAGEMENT PROPOSAL

For

Questar Market Resources

SOLI-BOND® Processing and Disposal of Drilling Waste

Batch Treatment

Wells: WV 13D-23-8-21

Section 23

T8S – R21E

Uintah County, Utah

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SOLI-BOND® Processing and Disposal of Drilling Waste
BATCH TREATMENT
QUESTAR • WV 13D-23-8-21
Uintah County, Utah

OVERVIEW

Soli-Bond, Inc. (SBI) proposes to utilize the SOLI-BOND® Process for the treatment of **Drilling Waste** on the **WV 13D-23-8-21** in Uintah County, Utah, which will be followed by onsite disposal of the processed material.

This proposal will serve to delineate the specifications and criteria for achieving the project objectives as required by **Questar Market Resources** (Client) and the appropriate regulatory entities.

GENERAL DESCRIPTION OF THE SOLI-BOND® PROCESS

The SOLI-BOND® Process involves the controlled addition of a non-toxic, chemically reactive, portland-cement-based reagent or reagents to a waste, followed by the mixing of the reagent with the waste to form homogeneous slurry similar to viscous mortar. Oily substances that may be present in the waste are broken up into small droplets or particles and dispersed throughout the reagent/waste mixture during the mixing phase of the process. After the mixing phase, an irreversible chemical reaction begins to occur between the reagent and water present (or added) in the waste, ultimately causing the reagent/waste mixture to be transformed into a solid granular material with a “soil-like” consistency, typically within 48 hours after processing. Any dispersed particles of oily substances within the processed material are *physically* locked in place or “micro-encapsulated” in their isolated state inside the reacted cementitious matrix, preventing them from re-coalescing and suddenly being released to the environment at significant rates. The same irreversible reaction *chemically* stabilizes various metals that may be present in the waste, primarily by transforming them into less soluble metal hydroxides and other chemical species, thus greatly reducing their mobility and availability to the surrounding environment as well. In summary The SOLI-BOND® Process reduces the leaching rate of target constituents of concern from a waste form to such a degree that they can no longer cause harm to health or the environment. The SOLI-BOND® Process is a waste treatment method more generally known as Solidification/Stabilization (S/S). S/S has been recognized and prescribed by the United States Environmental Protection Agency for many years as an effective technology for the treatment of waste containing various metals as well as non-volatile and semi-volatile organic substances.

INNOCUOUS WASTE APPLICATIONS

The SOLI-BOND® Process can also be applied to solidify innocuous oilfield wastes such as spent water based drilling fluids and physically unstable water based drill cuttings to avoid the increased difficulties typically associated with the disposal of liquid or semi-solid wastes. Irreversibly transforming the *physical* properties of an innocuous waste, from a liquid or semi-solid state that’s structurally unstable, into a solid, granular material with load bearing capability, can be the sole reason for using The SOLI-BOND® Process. In addition, the chemically driven transformation into a dry solid occurs quickly, with minimal volume addition and the process can accommodate waste with high fluid content. For oilfield waste pit applications, the process provides more rapid solidification of the pit contents, more room for the prescribed depth of soil cover and can greatly reduce the waiting period for the pit contents to dry sufficiently for pit closure as opposed to that required for conventional closure methods.

SOLI-BOND® Processing and Disposal of Drilling Waste
BATCH TREATMENT
QUESTAR • WV 13D-23-8-21
Uintah County, Utah

SITE AND APPLICATION DESCRIPTION

The subject work site is an area constructed for the drilling and production of the gas well covered in this proposal. The well plan contemplates the use of an oilbase drilling fluid during the drilling of the production section of the well. As this section of the well is drilled, cuttings will be generated, transported to the surface within the drilling fluid, then mechanically separated from the drilling fluid as waste. These separated cuttings are expected to contain elevated levels of adhered/absorbed hydrocarbons due to their prior contact with the oilbase drilling fluid. These “oilbase cuttings” will be collected in steel catch tanks provided by the Client as drilling progresses and then placed in the separate oil base cuttings pit.

In addition to the “oilbase cuttings” described above, oily waste fluids and sediments may be generated at the work site during drilling operations and after drilling is completed the drilling fluid containment system will be cleaned thus generating some oily cleaning waste as well. It is these oilbase cuttings, waste fluids and sediments and cleaning waste that comprise all the waste to be treated and disposed of under this proposal.

Based on Client information and allowing for well bore washout, decompression/expansion of the drilled cuttings and the adhered/absorbed drilling fluids (“WEF”), the total volume of waste to treat was estimated as follows:

WV 13D-23-8-21

4,475 feet of 6.125 inch diameter hole x WEF factor of 3:	489
Estimated additional sediments and cleaning waste:	<u>10,500</u>
Total Estimated Barrels of Waste to Treat:	10,989

SBI proposes to apply the SOLI-BOND® Process to the oilbase cuttings and other indicated waste from the well during drilling operations to achieve the following objectives:

- Permanently reduce the leaching rate of target constituents of concern from the treated material to within prescribed limits.
- Irreversibly solidify the physically unstable waste to allow onsite disposal and support of soil cover without subsidence.
- Accomplish treatment with minimal volume addition to minimize disposal cell size and facilitate required minimum space for soil cover.
- Achieve rapid solidification of the waste to allow prompt final disposal.

PRELIMINARY ACTIVITIES

SBI personnel collected a sample of waste similar in characteristics to the waste to be generated on the subject project. The waste sample was used to conduct bench scale SOLI-BOND® processing, which has been carried out to determine effective reagent formulations, reagent/waste mix ratios, pricing and other aspects of this proposal.

SOLI-BOND® Processing and Disposal of Drilling Waste
BATCH TREATMENT
QUESTAR • WV 13D-23-8-21
Uintah County, Utah

OPERATIONAL PLAN

SBI jobsite operations will be conducted as follows:

- After drilling the oilbase section of the well, SBI will install the SOLI-BOND® Waste Processing System at the well site. The “oilbase cuttings” will be treated “in-situ” in the existing lined pit.
- SBI will mobilize personnel to the jobsite to process the waste that has accumulated in the lined oil base cuttings pit.
- Upon arrival at the jobsite, the SBI Site Foreman will conduct a Jobsite Safety Assessment with SBI crew, discussing all potential jobsite safety hazards, required personal safety gear and accident avoidance and conduct safety meetings with SBI crew prior to each day’s work throughout the project.
- SBI and Client Representative will verify the volume of waste to treat in each batch prior to process operations.
- SBI crew will then process the waste with the SOLI-BOND® Waste Processing System.
- Waste processing will be performed during eight (8) hour daylight shifts. After daily onsite process operations are completed SBI personnel will prepare a SBI field ticket for Client Representative signature, indicating the volume of waste processed (in barrels).
- Components of The SOLI-BOND® Waste Processing System may remain at the jobsite until all waste to treat has been processed.
- After all waste is processed from the well, a composite sample of the processed material will be collected for laboratory analysis to verify that it complies with criteria under the section herein entitled “Performance Criteria.”
- SBI will utilize the existing lined pit as an on-site disposal cell sized to accommodate the processed oilbase cuttings and four (4) feet of soil cover after final reclamation of the drill site. Client has provided a plastic liner for the disposal cell, including installation. After achievement of performance criteria is verified, SBI will backfill the cell to the adjacent surface elevation thus constituting final disposal of the processed material. SBI will then demobilize equipment and personnel thus concluding SBI’s onsite operations.
- A SBI Waste Treatment and Disposal Report suitable for submittal to the appropriate regulatory agencies will then be prepared documenting all pertinent aspects of the project and will be submitted to the Client.

PERFORMANCE CRITERIA

The treated waste will comply with the following criteria:

1. Leachable Oil and Grease less than 10 mg/L.
2. Leachable Total Dissolved Solids to be less than 5000 mg/L and/or leachable salts below acceptable site-specific guidelines.

Compliance with the performance criteria will be certified by an accredited testing laboratory utilizing the appropriate tests as prescribed and will be documented in a final report submitted to Client and the appropriate regulatory agencies as required.

SOLI-BOND® Processing and Disposal of Drilling Waste
BATCH TREATMENT
 QUESTAR • WV 13D-23-8-21
 Uintah County, Utah

SCHEDULE (All time/days are estimates and may change due to jobsite conditions)

ITEM / SERVICE (Based on estimated 10,989 total barrels of waste to process)	ESTIMATED DAYS
Mobilization And Setup	1
Estimated SOLI-BOND® PWD Waste Processing System Rental Days	15
Process Material, Backfill Cell	12
Takedown and Demobilization	1

ITEMS FURNISHED with SOLI-BOND® PWD Waste Processing System

Equipment

- SB-2-7 Processor
- SOLI-BOND® Reagent Storage Silo w/ Discharge Auger
- Back Hoe Loader
- Ancillary Equipment
- First Aid and Safety Equipment
- SBI Crew Transportation

Personnel

- *SBI Site Foreman*
- *SBI Operator Material*
- Fuel necessary to operate Soli-Bond’s motorized equipment.

Miscellaneous

- SBI Equipment Cleaning.
- One Laboratory Analysis of Processed Material. (for parameters indicated herein)
- SBI Waste Treatment and Disposal Report.

CLIENT RESPONSIBILITY

- Client will provide SBI with a written work order or other Client recognized document to contract SBI to perform the work as described herein.
- Client will provide SBI with a list of any Client requirements related to performing and being compensated for the work described herein.
- Client will provide “all weather” ingress and egress to the site.
- Client will provide process add-mix water.
- Client agrees that delays or interruptions in SBI’s work described herein caused by “Acts of Nature” or events under the responsibility of the Client or Client contractors (excluding SBI and it’s contractors) may result in additional charges to Client.

**QUESTAR EXPLORATION & PRODUCTION, CO.
WV 13D-23-8-21
670' FSL 973' FWL
SWSW, SECTION 23, T8S, R21E
UINTAH COUNTY, UTAH
LEASE # UTU-025963**

ONSHORE ORDER NO. 1

MULTI – POINT SURFACE USE & OPERATIONS PLAN

1. Existing Roads:

The proposed well site is approximately 11 miles from Ouray, Utah.

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

2. Planned Access Roads:

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:

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

5. Location and Type of Water Supply:

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 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.

6. Source of Construction Materials:

Surface and subsoil materials in the immediate area will be utilized. Any gravel will be obtained from a commercial source. The use of materials under BLM jurisdiction will conform with 43 CFR 3610.2-3.

7. Methods of Handling Waste Materials:

Drill cuttings will be contained and buried in the reserve pit. Drilling fluids, including salts and chemicals, will be contained in the reserve pit. Upon termination of drilling and completion operations, the liquid contents of the reserve pit will be used at the next drill site or will be removed and disposed of at an approved waste disposal facility with 90 days after drilling is terminated. Immediately upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1.

After first production, produced wastewater will be confined to the approved pit or storage tank for a period not to exceed 90 days. During the 90 day period, in accordance with Onshore Order #7, all produced water will be contained in tanks on location and then hauled to Wonsits Valley location in SWNW Sec. 12, T8S, R21E; or Red Wash Disposal Well located in NESW, Sec. 28, T7S, R22E or, Red Wash Central Battery Disposal located in SWSE, Section 27, T7S, R23E. Pit reclamation for lined pit will be ruptured when emptied to allow the remaining liquid to be adequately mixed and to promote additional drying of the pit area.

See additional information for oil base mud under the Drilling Program # 9.

8. Ancillary Facilities:

None anticipated.

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 Pit liner is required felt if rock encountered.

10. Plans for Reclamation of the Surface:

Topsoil will be stripped and salvaged to provide for sufficient quantities to be respread to a depth of at least 4 to 6 inches over the disturbed areas to be reclaimed. Topsoil shall be stock piled separately from subsoil materials. Topsoil salvaged from the reserve pit shall be stockpiled separately near the reserve pit. Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, materials, trash, and debris not required for production. Alternatively, the pit will be pumped dry, the liner folded into the pit, and the pit backfilled. The reserve pit will be reclaimed within 120 days from the date of well completion, weather permitting.

11. Surface Ownership:

The well pad and access road are located on lands owned by:

Ute Tribe
P.O. Box 70
Fort Duchesne, UT 84026

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.

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

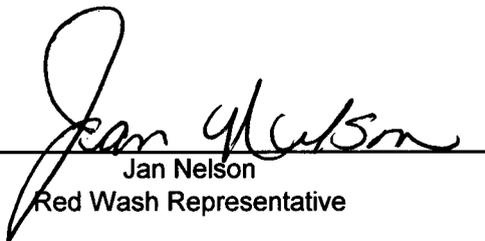
Certification:

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.

QEP 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 QEP 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

25-Sep-07
Date

QUESTAR EXPLR. & PROD.

WV #13D-23-8-21

LOCATED IN UINTAH COUNTY, UTAH
SECTION 23, T8S, R21E, S.L.B.&M.

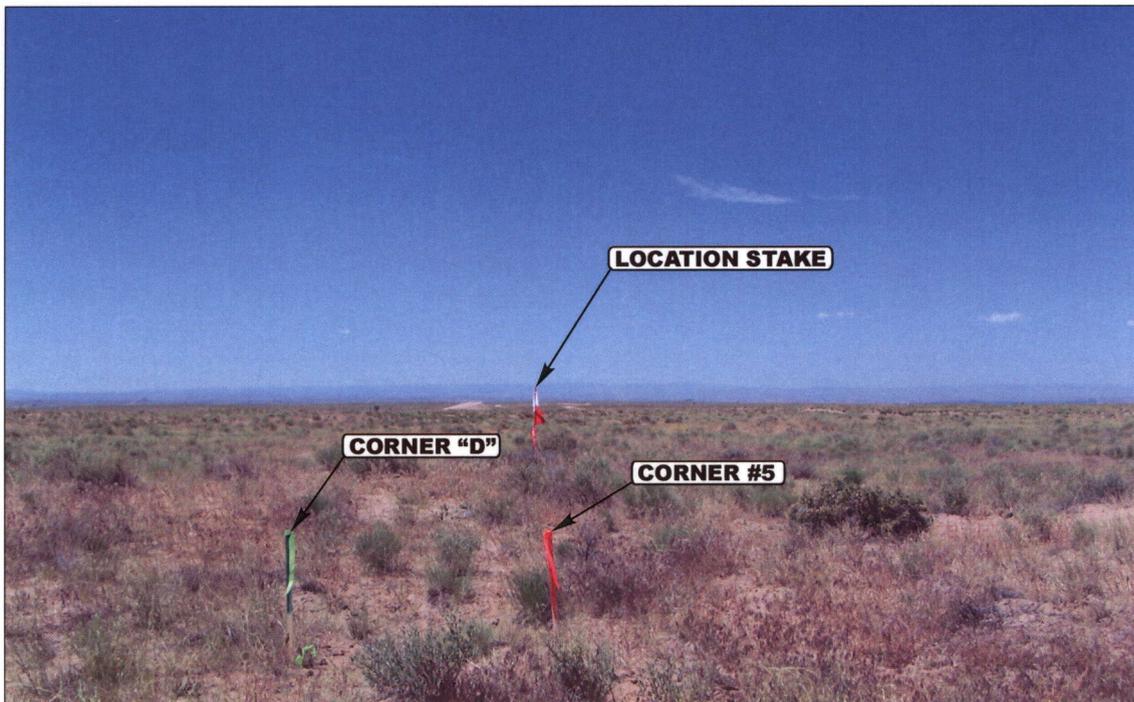


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: SOUTHWESTERLY



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

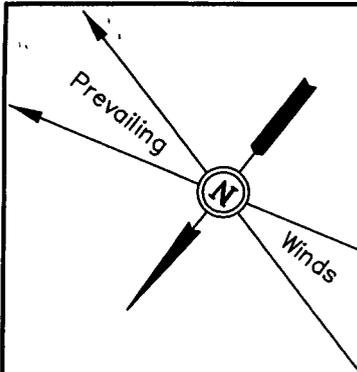
LOCATION PHOTOS	06	04	07	PHOTO
	MONTH	DAY	YEAR	
TAKEN BY: D.A.	DRAWN BY: A.A.		REVISED: 00-00-00	

QUESTAR EXPLR. & PROD.

FIGURE #1

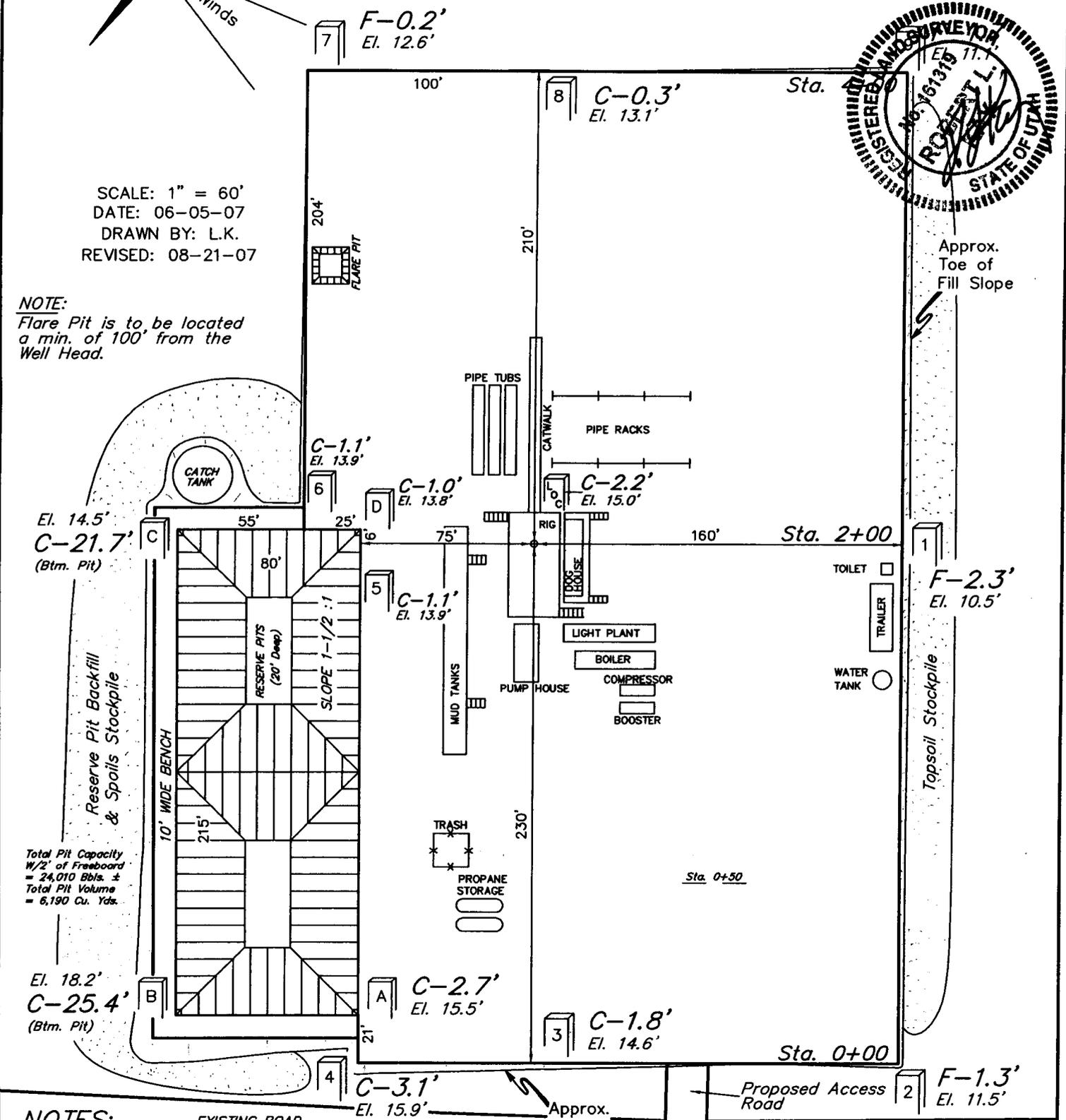
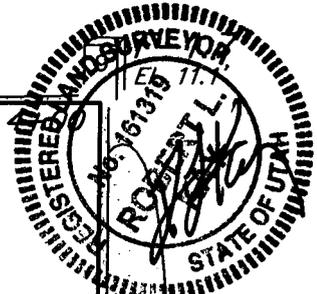
LOCATION LAYOUT FOR

WV #13D-23-8-21
SECTION 23, T8S, R21E, S.L.B.&M.
670' FSL 973' FWL



SCALE: 1" = 60'
DATE: 06-05-07
DRAWN BY: L.K.
REVISED: 08-21-07

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



Total Pit Capacity
W/2' of Freeboard
= 24,010 Bbls. ±
Total Pit Volume
= 6,190 Cu. Yds.

NOTES:

EXISTING ROAD

Approx.
Top of
Cut Slope

Proposed Access
Road

Elev. Ungraded Ground At Loc. Stake = 4815.0'
FINISHED GRADE ELEV. AT LOC. STAKE = 4812.8'

QUESTAR EXPLR. & PROD.

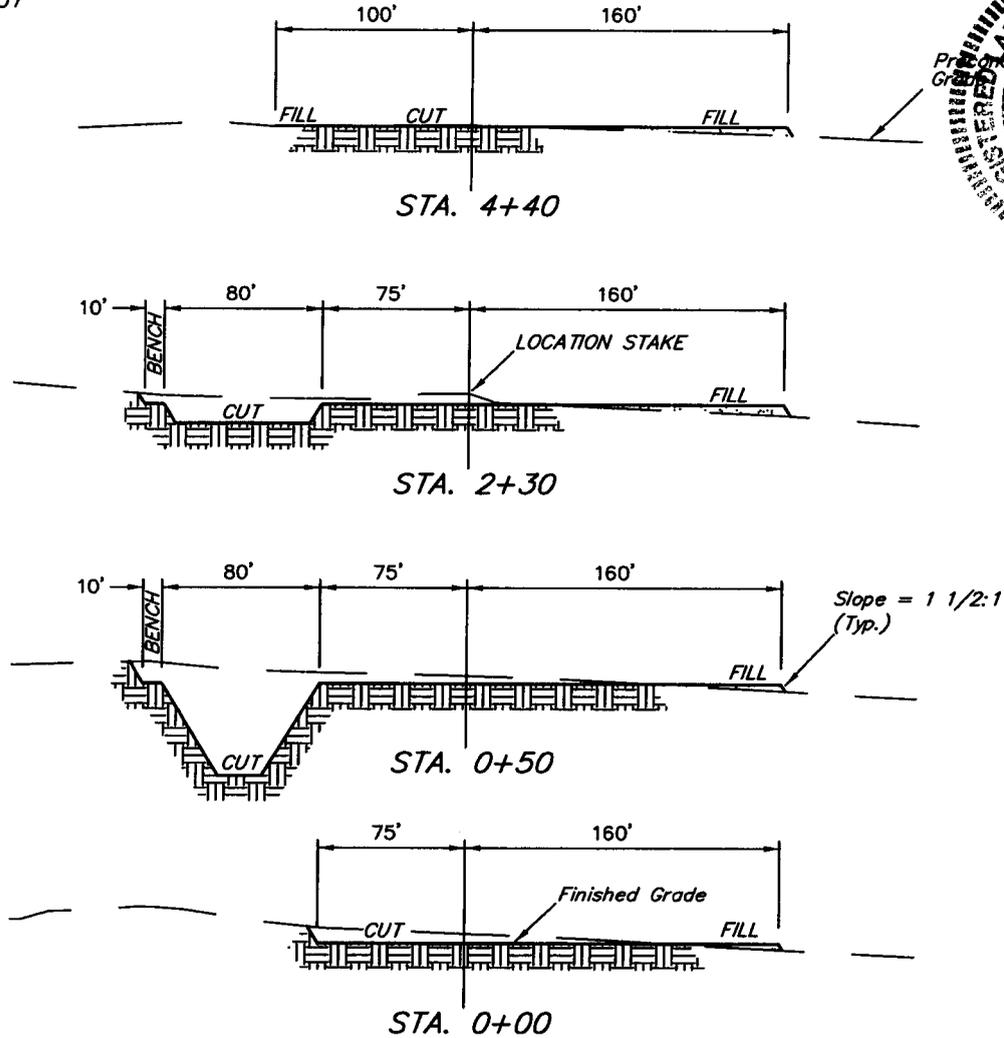
TYPICAL CROSS SECTIONS FOR

WV #13D-23-8-21
SECTION 23, T8S, R21E, S.L.B.&M.
670' FSL 973' FWL

FIGURE #2

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

DATE: 06-05-07
DRAWN BY: L.K.
REVISED: 08-21-07



APPROXIMATE ACREAGES

WELL SITE DISTURBANCE = ± 3.961 ACRES
PIPELINE DISTURBANCE = ± 1.359 ACRES
TOTAL = ± 5.320 ACRES

* NOTE:
FILL QUANTITY INCLUDES
5% FOR COMPACTION

NOTE:

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

APPROXIMATE YARDAGES

CUT
(12") Topsoil Stripping = 5,110 Cu. Yds.
Remaining Location = 7,920 Cu. Yds.

TOTAL CUT = 13,030 CU.YDS.
FILL = 4,820 CU.YDS.

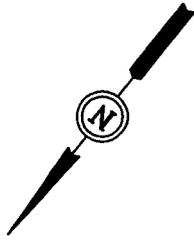
EXCESS MATERIAL = 8,210 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.) = 8,210 Cu. Yds.
EXCESS UNBALANCE = 0 Cu. Yds. (After Interim Rehabilitation)

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

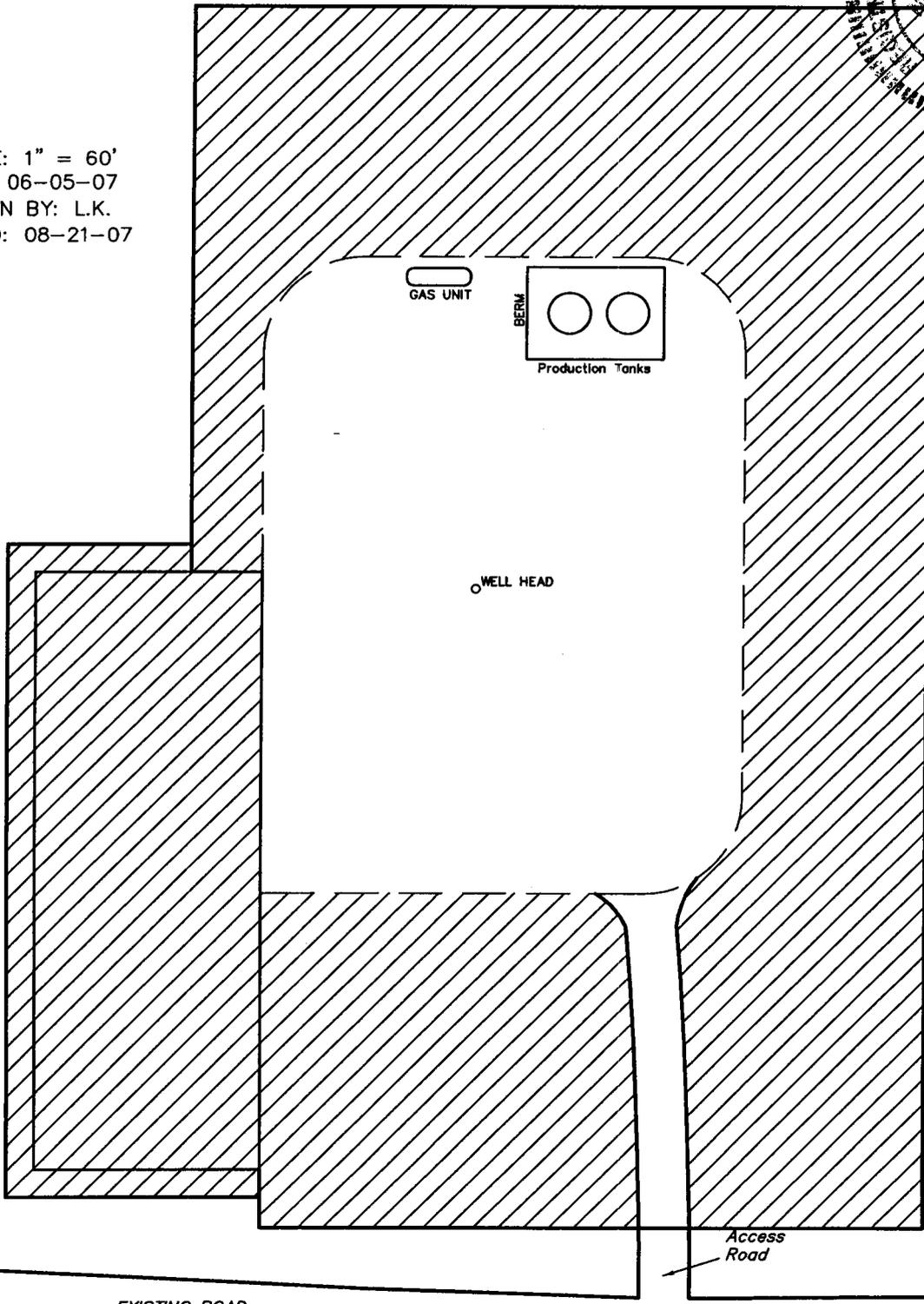
QUESTAR EXPLR. & PROD.
INTERIM RECLAMATION PLAN FOR

FIGURE #3

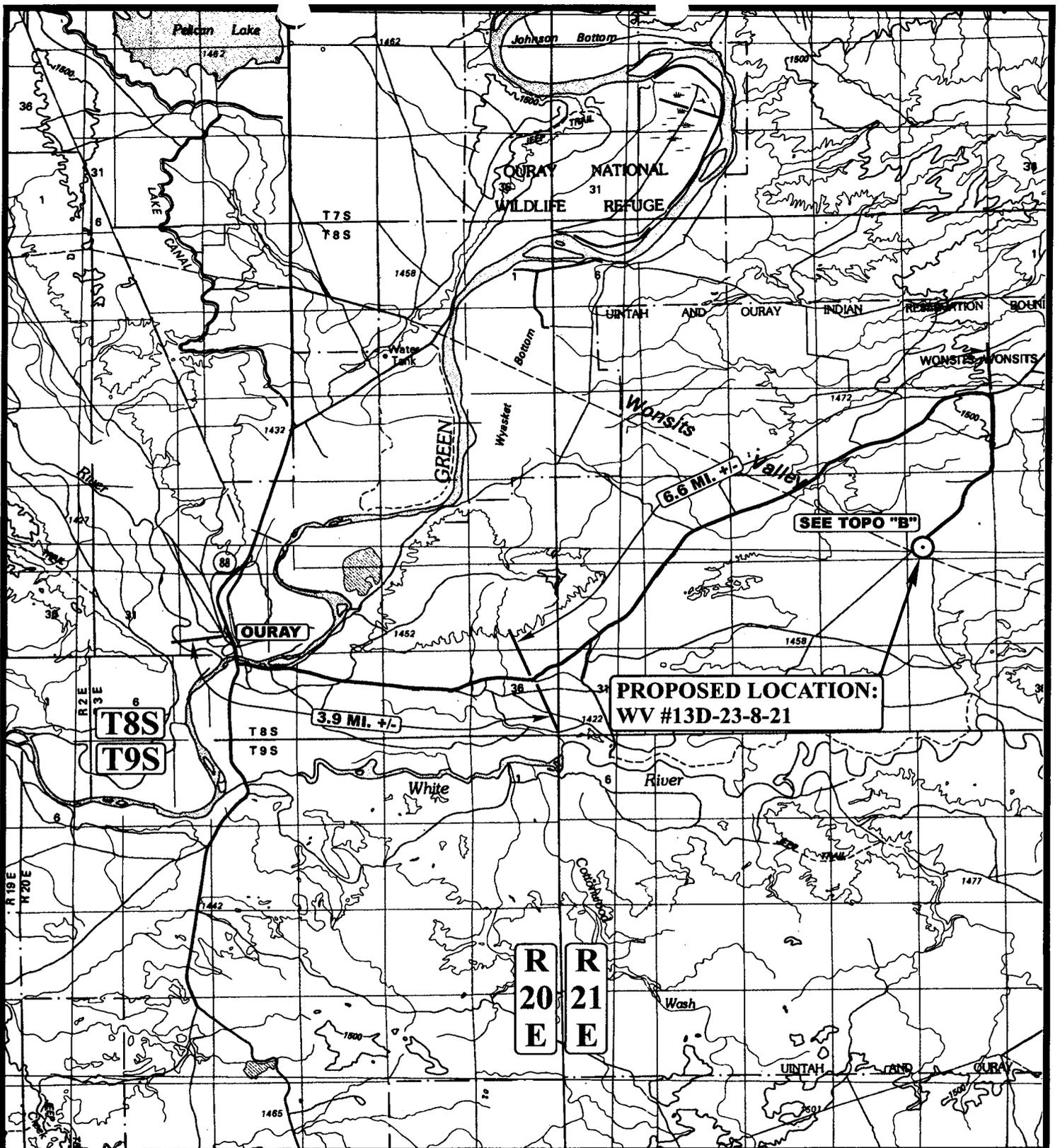
WV #13D-23-8-21
SECTION 23, T8S, R21E, S.L.B.&M.
670' FSL 973' FWL



SCALE: 1" = 60'
DATE: 06-05-07
DRAWN BY: L.K.
REVISED: 08-21-07



 INTERIM RECLAMATION



LEGEND:

⊙ PROPOSED LOCATION

QUESTAR EXPLR. & PROD.

WV #13D-23-8-21
 SECTION 23, T8S, R21E, S.L.B.&M.
 670' FSL 973' FWL



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

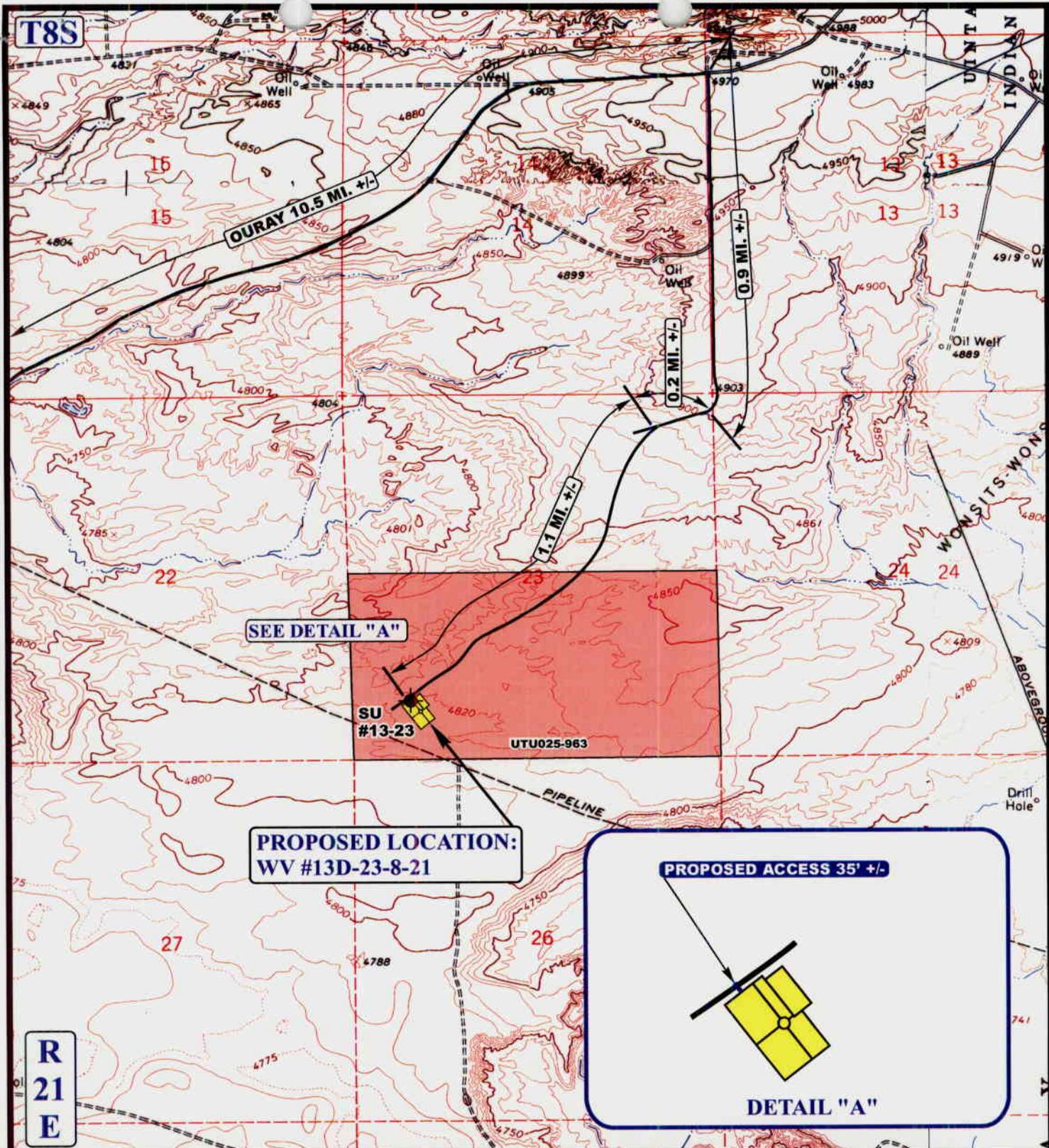


**TOPOGRAPHIC
 MAP**

06	04	07
MONTH	DAY	YEAR

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





LEGEND:

- EXISTING ROAD
- PROPOSED ACCESS ROAD



QUESTAR EXPLR. & PROD.

WV #13D-23-8-21
 SECTION 23, T8S, R21E, S.L.B.&M.
 670' FSL 973' FWL



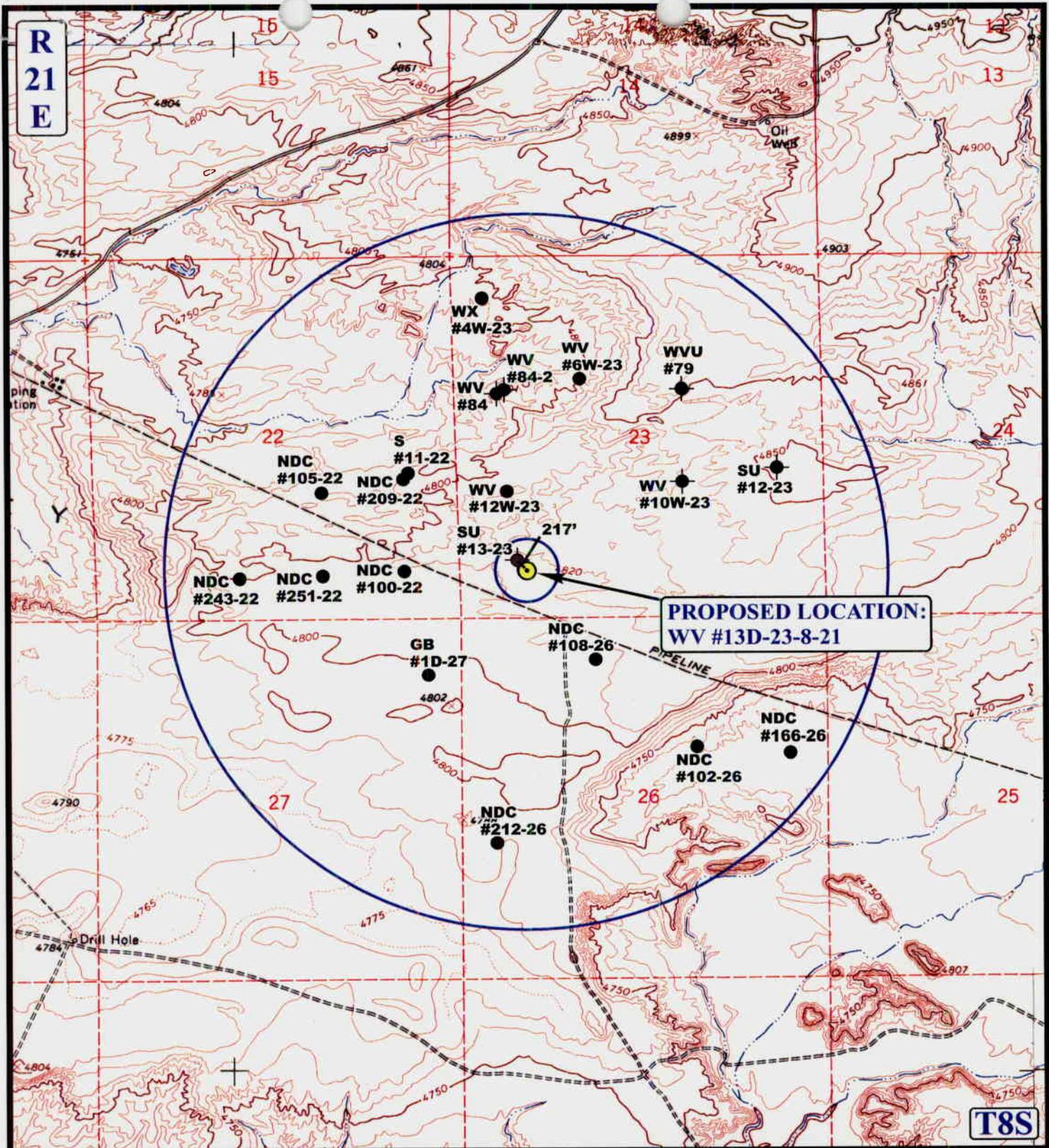
Uintah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
 (435) 789-1017 * FAX (435) 789-1813

**TOPOGRAPHIC
 MAP**

06	04	07
MONTH	DAY	YEAR



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



**PROPOSED LOCATION:
WV #13D-23-8-21**

LEGEND:

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

QUESTAR EXPLR. & PROD.

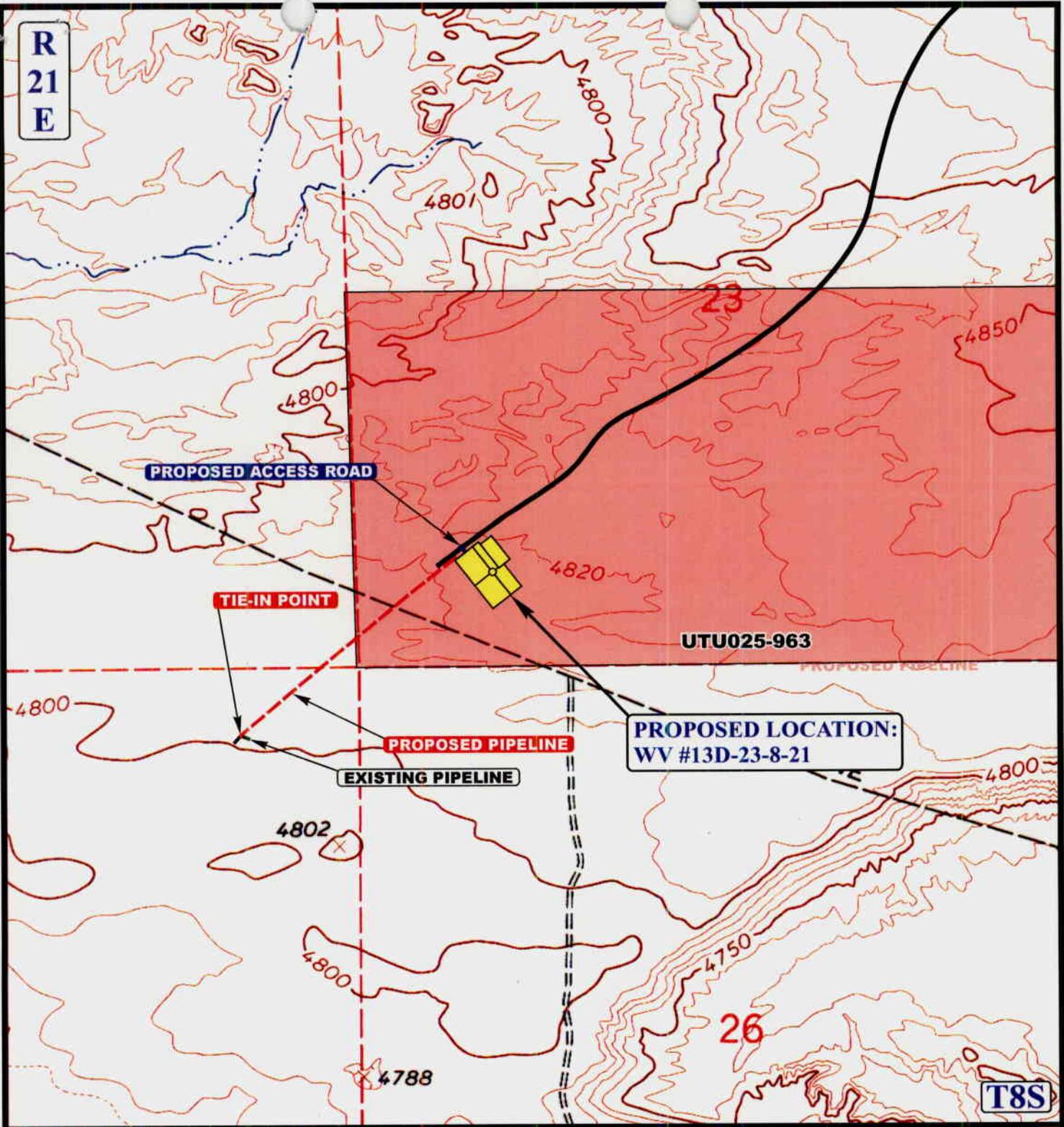
**WV #13D-23-8-21
SECTION 23, T8S, R21E, S.L.B.&M.
670' FSL 973' FWL**

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



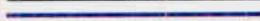
TOPOGRAPHIC MAP 06 04 07
MONTH DAY YEAR
SCALE: 1" = 2000' DRAWN BY: A.A. REVISED: 00-00-00 **C TOPO**

R
21
E



APPROXIMATE TOTAL PIPELINE DISTANCE = 2,002' +/-

LEGEND:

-  PROPOSED ACCESS ROAD
-  EXISTING PIPELINE
-  PROPOSED PIPELINE

QUESTAR EXPLR. & PROD.

WV #13D-23-8-21
 SECTION 23, T8S, R21E, S.L.B.&M.
 670' FSL 973' FWL



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

TOPOGRAPHIC
 MAP

06 04 07
 MONTH DAY YEAR

D
 TOPO

SCALE: 1" = 1000' DRAWN BY: A.A. REVISED: 00-00-00

**WORKSHEET
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 09/27/2007

API NO. ASSIGNED: 43-047-39663

WELL NAME: WV 13D-23-8-21

OPERATOR: QUESTAR EXPLORATION & (N5085)

CONTACT: JAN NELSON

PHONE NUMBER: 435-781-4331

PROPOSED LOCATION:

SWSW 23 080S 210E
 SURFACE: 0670 FSL 0973 FWL
 BOTTOM: 0670 FSL 0973 FWL
 COUNTY: Uintah
 LATITUDE: 40.10343 LONGITUDE: -109.5265
 UTM SURF EASTINGS: 625590 NORTHINGS: 4440067
 FIELD NAME: WONSITS VALLEY (710)

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

LEASE TYPE: 1 - Federal
 LEASE NUMBER: UTU-025963
 SURFACE OWNER: 2 - Indian

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

COMMENTS: _____

STIPULATIONS: 1- Sediment Approach
2- Spacing Strip



Questar Exploration and Production Company

11002 East 17500 South

Vernal, UT 84078

Tel 435 781 4300 • Fax 435 781 4329

October 1, 2007

Division of Oil, Gas & Mining
1594 W. N. Temple STE 1210
Salt Lake City, UT 84114-5801

To Whom It May Concern:

In reference to the State Oil and Gas Conservation rule R649-3-3 Questar Exploration & Production Co. WV 13D-23-8-21 is an exception to this rule to avoid concerns with Chevron Pipeline.

There are no additional lease owners with 460' of the proposed location. If you have any question please contact Jan Nelson @ (435) 781-4331.

Thank you,

A handwritten signature in black ink that reads "Jan Nelson".

Jan Nelson
Regulatory Affairs



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

November 8, 2007

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

Re: WV 13D-23-8-21 Well, 670' FSL, 973' FWL, SW SW, Sec. 23, 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.

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby 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 43-047-39663.

Sincerely,

Gil Hunt
Associate Director

pab
Enclosures

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



Operator: Questar Exploration & Productions, Co.

Well Name & Number WV 13D-23-8-21

API Number: 43-047-39663

Lease: UTU-025963

Location: SW SW Sec. 23 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. 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

SUBMIT IN TRIPPLICATE*

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 MULTIPLE
 OIL WELL GAS WELL OTHER ZONE ZONE

5. LEASE DESIGNATION AND SERIAL NO.
 UTU-025963

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
 UTE TRIBE

7. UNIT AGREEMENT NAME
 N/A

8. FARM OR LEASE NAME, WELL NO.
 WV 13D-23-8-21

2. NAME OF OPERATOR
 QUESTAR EXPLORATION & PRODUCTION, CO.
 Contact: Jan Nelson
 E-Mail: jan.nelson@questar.com

3. ADDRESS
 11002 E 17500 S VERNAL, UT 84078
 Telephone number
 Phone 435-781-4331 Fax 435-781-4395

9. API NUMBER:
 43,047,39663

10. FIELD AND POOL, OR WILDCAT
 NATURAL BUTTES

4. LOCATION OF WELL (Report location clearly and in accordance with and State requirements*)
 At Surface 670' FSL 973' FWL, SWSW, SECTION 23, T8S, R21E
 At proposed production zone

11. SEC., T, R, M, OR BLK & SURVEY OR AREA
 SEC. 23, T8S, R21E Mer SLB

14. DISTANCE IN MILES FROM NEAREST TOWN OR POSTOFFICE*
 11 +/- MILES EAST OF OURAY, UTAH

12. COUNTY OR PARISH
 Uintah

13. STATE
 UT

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.
 (also to nearest drig, unit line if any)
 670' +/-

16. NO. OF ACRES IN LEASE
 280.00

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
 16,575

20. BLM/BIA Bond No. on file
 ESB000024

21. ELEVATIONS (Show whether DF, RT, GR, ect.)
 4815.0'

22. DATE WORK WILL START
 ASAP

23. Estimated duration
 70 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:
- Well plat certified by a registered surveyor.
 - A Drilling Plan
 - A surface Use Plan (if location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
 - Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
 - Operator certification.
 - 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 9-25-07

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 DATE 1-17-2008

VERNAL FIELD OFFICE *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

CONDITIONS OF APPROVAL ATTACHED

RECEIVED CONFIDENTIAL

JAN 18 2008

DIV. OF OIL, GAS & MINING

NOTICE OF APPROVAL

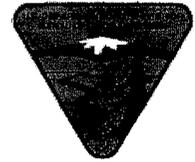
NOS 7/24/07

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**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

Company: Questar Exploration & Production Co. **Location:** SWSW, Sec 23, T8S, R21E
Well No: WV 13D-23-8-21 **Lease No:** UTU-25963
API No: 43-047-39663 **Agreement:** N/A

Title	Name	Office Phone Number	Cell Phone Number
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 NRS/Enviro Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify NRS/Enviro 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 Supervisory Petroleum Technician)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings
BOP & Related Equipment Tests (Notify Supervisory Petroleum Technician)	-	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)**

Surface 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.

Additional Stipulations:

- A 30 foot corridor right-of-way shall be approved. Upon completion of each pipeline in corridor, they shall be identified and filed with the Ute Tribe.
- A qualified Archaeologist accompanied by a Tribal Technician will monitor trenching construction of pipeline.
- The Ute Tribe Energy & Minerals Department is to be notified, in writing 48 hours prior to construction of pipeline.
- Construction Notice shall be given to the department on the Ute Tribe workdays, which are Monday through Thursday. The Company understands that they may be responsible for costs incurred by the Ute Tribe after hours.
- The Company shall inform contractors to maintain construction of pipelines within the approved ROWs.
- The Company shall assure the Ute Tribe that "ALL CONTRACTORS, INCLUDING SUB-CONTRACTORS, LEASING CONTRACTORS, AND ETC." have acquired a current and valid Ute Tribal Business License and have "Access Permits" prior to construction, and will have these permits in all vehicles at all times.
- You are hereby notified that working under the "umbrella" of a company does not allow you to be in the field, and can be subject to those fines of the Ute Tribe Severance Tax Ordinance.
- Any deviation of submitted APD's and ROW applications the Companies will notify the Ute Tribe and BIA in writing and will receive written authorization of any such change with appropriate authorization.
- The Company will implement "Safety and Emergency Plan." The Company's safety director will ensure its compliance.
- All Company employees and/or authorized personnel (sub-contractors) in the field will have approved applicable APDs and/or ROW permits/authorizations on their person(s) during all phases of construction.

- All vehicular traffic, personnel movement, construction/restoration operations should be confined to the area examined and approved, and to the existing roadways and/or evaluated access routes.
- All personnel should refrain from collecting artifacts, any paleontological fossils, and from disturbing any significant cultural resources in the area.
- The personnel from the Ute Tribe Energy & Minerals Department should be notified should cultural remains from subsurface deposits be exposed or identified during construction. All construction will cease.
- All mitigative stipulations contained in the Bureau of Indian Affairs Site Specific Environmental Assessment (EA) will be strictly adhered.
- Upon completion of Application for Corridor Right-Way, the company will notify the Ute Tribe Energy & Minerals Department, so that a Tribal Technician can verify Affidavit of Completion.

ADDITIONAL CONDITIONS OF APPROVAL:

- Paint tanks Desert Tan
- Apply rock and gravel
- For any other additional stipulations, see concurrence letter.

DOWNHOLE CONDITIONS OF APPROVAL

SITE SPECIFIC DOWNHOLE CONDITIONS OF APPROVAL

- Casing shoe integrity tests shall be performed.
- 5 M BOPE is required after the 13-3/8 casing pt.
- Intermediate casing cement shall be a minimum of 200 ft above the surface shoe.
- 10 M BOPE is required after the 9-5/8 casing pt.
- The liner top shall be tested in accordance with Onshore Order #2.
- The production casing cement top shall be a minimum of 200 ft above the 7 " liner top.

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.
- 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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Serial No.

UTU-025963

6. If Indian, Allottee or Tribe Name

UTE TRIBE

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

N/A

8. Well Name and No.

WV 13D-23-8-21

9. API Well No.

43-047-39663

10. Field and Pool, or Exploratory Area

NATURAL BUTTES

11. County or Parish, State

UINTAH

SUBMIT IN TRIPLICATE - Other Instructions on reverse side

1. Type of Well

Oil Well Gas Well Other

CONFIDENTIAL

2. Name of Operator

QUESTAR EXPLORATION & PRODUCTION, CO.

3a. Address

11002 E. 17500 S. VERNAL, UT 84078

3b. Phone No. (include area code)

435-781-4331

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

670' FSL 973' FWL, SW 1/4 SW 1/4, SECTION 23, T8S, R21E

12. 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	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete
	<input checked="" type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal
			<input type="checkbox"/> Water Shut-Off
			<input type="checkbox"/> Well Integrity
			<input type="checkbox"/> Other _____

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

QUESTAR EXPLORATION AND PRODUCTION COMPANY REQUEST PERMISSION TO CHANGE CASING DESIGN FROM WHAT WAS ORIGINALLY APPROVED. THE MAJOR CHANGES ARE AS FOLLOWS.

ELIMINATE THE 7" LINER AND RUN 7" CASING BACK TO SURFACE
CHANGE THE HOLE SIZE FROM 11" FOR THE 9 5/8" CASING TO 12- 1/4"
CHANGE BOTTOM HOLE PRESSURE TO 10,900 PSI.

COPY SENT TO OPERATOR

Date: 4.4.2008

Initials: KS

ATTACHED IS A REVISED DRILLING PLAN AND WELLBORE DIAGRAM.

FOR TECHNICAL QUESTIONS, PLEASE CONTACT JIM DAVIDSON, CHIEF DRILLING ENGINEER FOR QEP AT (303) 308-3090.

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

Name (Printed/Typed)	Title
Jan Nelson	Regulatory Affairs
Signature	Date
<i>Jan Nelson</i>	March 18, 2008

THIS SPACE FOR FEDERAL OR STATE USE

Approved by	Title	Date
<i>Jan Nelson</i>	Accepted by the Utah Division of Oil, Gas and Mining	
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	Federal Approval Of This Action Is Necessary

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.

(Instructions on reverse)

RECEIVED

MAR 19 2008

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 and Gas No. 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

1. Formation Tops

The estimated tops of important geologic markers are as follows:

<u>Formation</u>	<u>Depth</u>
Uinta	Surface
Green River	2,464'
Wasatch	5,799'
Mesaverde	8,674'
Sego	11,174'
Castlegate	11,274'
Blackhawk	11,608'
Mancos Shale	12,050'
Mancos B	12,485'
Frontier	15,130'
Dakota Silt	16,002'
Dakota	16,202'
TD	16,575'

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 are as follows:

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
Gas	Wasatch	5,799'
Gas	Mesaverde	8,674'
Gas	Blackhawk	11,608'
Gas	Mancos Shale	12,050'
Gas	Mancos B	12,485'
Gas	Dakota	16,202'

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.

DRILLING PROGRAM

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. 13-5/8" 5000 psi double gate, 5,000 psi annular BOP (schematic included) from surface hole to 9-5/8" casing point. A 13-5/8" 10,000 psi double and single gate may be substituted based on contractor availability and substructure height of the drilling rig.
- B. 11" or 13-5/8" 10,000 psi double gate, 10,000 psi single gate, 10,000 psi annular BOP (schematic included) from 9-5/8" casing point to total depth. The choice of BOP stacks is based on the drilling contractor's availability.
- C. Functional test daily
- D. All casing strings shall be pressure tested (0.2 psi/foot or 1500 psi, whichever is greater) prior to drilling the plug after cementing; test pressure shall not exceed the internal yield pressure of the casing.
- E. Ram type preventers and associated equipment shall be tested to approved stack working pressure if isolated by test plug or to 50 percent of internal yield pressure of casing whichever is less. BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc..., for a 10M system and individual components shall be operable as designed.

DRILLING PROGRAM

4. **Casing Design:**

Hole Size	Csg. Size	Top (MD)	Bottom (MD)	Wt.	Grade	Thread	Cond.
26"	20"	sfc	40-60'	Steel	Cond.	None	Used
17-1/2"	13-3/8"	sfc	500'	54.5	K-55	STC	New
12-1/4"	9-5/8"	sfc	5200'	47	HCP-110	Flush Jnt **	New
8-1/2"	7"	Surface	9,000'	26	HCP-110	LTC	New
8-1/2"	7"	9000'	12,100'	29* SDrift	HCP-110	LTC	New
6-1/8"	4-1/2"	sfc	13,000'	15.1	P-110	LTC	New
6-1/8"	4-1/2"	13,000'	15,000'	15.1	Q-125	LTC	New
6-1/8"	4-1/2"	15,000'	16,575'	16.6	Q-125	LTC	New

Casing Strengths:				Collapse	Burst	Tensile (minimum)
13-3/8"	54.5 lb.	K-55	STC	1,130 psi	2,730 psi	547,000 lb.
9-5/8"	47 lb.	HCP-110	LTC	7,100 psi	9,440 psi	1,213,000 lb.
7"	29 lb.*	HCP-110	LTC	9,200 psi	11,220 psi	797,000 lb.
4-1/2"	15.1 lb.	P-110	LTC	14,350 psi	14,420 psi	406,000 lb.
4-1/2"	15.1 lb.	Q-125	LTC	15,840 psi	16,380 psi	438,000 lb.
4-1/2"	16.6 lb.	Q-125	LTC	19,010 psi	18,130 psi	493,000 lb.

* Special Drift

** Flush Jnt – VAM SLIJ II or LT&C based on availability

MINIMUM DESIGN FACTORS:

COLLAPSE: 1.125

BURST: 1.10

TENSION: 1.80

DRILLING PROGRAM

Area Fracture Gradient: 0.9 psi/foot
Maximum anticipated mud weight: 15.4 ppg
Maximum surface treating pressure: 12,500 psi

5. Auxiliary Equipment

- A. Kelly Cock – yes
- B. Float at the bit – yes
- C. Monitoring equipment on the mud system – visually and/or PVT/Flow Show
- D. Full opening safety valve on the rig floor – yes
- E. Rotating Head – yes
If drilling with air the following will be used:
 - 1. The blooie line shall be at least 6” in diameter and extend at least 100’ from the well bore into the reserve/blooie pit.
 - 2. Blooie line ignition shall be provided by a continuous pilot (ignited when drilling below 500’).
 - 3. Compressor shall be tied directly to the blooie line through a manifold.
 - 4. A mister with a continuous stream of water shall be installed near the end of the blooie lines for dust suppression.

Surface hole will be drilled with air, air/mist, foam, or mud depending on hole conditions. Drilling below surface casing will be with water based drilling fluids consisting primarily of fresh water, bentonite, lignite, caustic, lime, soda ash and polymers. No chromates will be used. It is not intended to use oil in the mud, however, in the event it is used, oil concentration will be less than 4% by volume. Maximum anticipated mud weight is 15.4 ppg.

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

PVT/Flow Show will be used from base of surface casing to TD.

Gas detector will be used from surface casing depth to TD.

6. Testing, logging and coring program

- A. Cores – none anticipated

DRILLING PROGRAM

- B. DST – none anticipated
- C. Logging – Mud logging – 4500' to TD
GR-SP-Induction, Neutron Density, FMI
- D. Formation and Completion Interval: Mancos interval, final determination of completion will be made by analysis of logs.
Stimulation – Stimulation will be designed for the particular area of interest as encountered.

7. **Cementing Program**

20" Conductor:

Cement to surface with construction cement.

13-3/8" Surface Casing: sfc – 500' (MD)

Slurry: 0' – 500'. 610 sxs (731 cu ft) Premium cement + 0.25 lbs/sk Flocele + 2% CaCl₂
Slurry wt: 15.6 ppg, slurry yield: 1.20 ft³/sx, slurry volume: 17-1/2" hole + 100% excess.

9-5/8" Intermediate Casing: sfc – 5,200' (MD)

Lead Slurry: 0' – 4,800'. 1379 sks (361 bbls) Foamed Lead 50/50 Poz cement + 0.1 % FDP-C766-05 (Low Fluid Loss Control) + 5 #/sx Silicate Compacted + 20 % SSA-1 + 0.1 % Versaset + 1.5 % Zonesealant 2000 (Foamer) Slurry wt: 14.3 ppg, (unfoamed) or 11.0 ppg. (foamed) Slurry yield: 1.47 ft³/sk (unfoamed), Slurry volume: 12-1/4" hole + 35 % excess.

Tail Slurry: 4,800' – 5,200'. 115 sks (30 bbls) Tail 50/50 Poz cement + 0.1 % FDP-C766-05 (Low Fluid Loss Control) + 5 #/sx Silicate Compacted + 20 % SSA-1 + 0.1 % Versaset Slurry wt: 14.3 ppg, Slurry yield: 1.47 ft³/sk, Slurry volume: 12-1/4" hole + 35% excess.

7" Intermediate Casing: sfc - 12,100' (MD)

Foamed Lead Slurry 2: 0' – 11,600'. 960 sks (1931 cu ft) 0.1 % HALAD-766 (Low Fluid Loss Control); Slurry Yield: 1.47 ft³/sk; 5 lbm/sk Silicalite Compacted (Light Weight Additive) Total Mixing Fluid: 6.40 Gal/sk; 20 % SSA-1 (Heavy Weight Additive); 0.1 % Versaset (Thixotropic Additive); 1.5 % FDP-C760-04 (Foamer)

Tail Slurry: 11,600 – 12,100' 60 sks (79.3 cu ft) 0.1 % HALAD-766 (Low Fluid Loss Control) Slurry Yield: 1.47 ft³/sk; 5 lbm/sk Silicalite Compacted (Light Weight Additive) Total Mixing Fluid: 6.40 Gal/sk; 20 % SSA-1 (Heavy Weight Additive); 0.1 % Versaset (Thixotropic Additive); 1.5 % FDP-C760-04 (Foamer)

DRILLING PROGRAM

4-1/2" Production Casing: sfc - 16,575' (MD)

Lead/Tail Slurry: 5,500 - 16,575'. 945 sks (1408 cu ft) Premium Cement + 17.5% SSA-1, + 4% Microbond HT, + 0.2% Halad 344 + 0.5% Halad 413, + 0.3% CFR-3, + 0.9% HR-12, + 0.2% Super CBL, + 0.2% Suspend HT, 17.5% SSA-2. Slurry wt: 16.2 ppg, Slurry yield: 1.49 ft³/sk, Slurry volume: 6-1/8" hole + 35% in open hole section.

*Final cement volumes to be calculated from caliper log with an attempt to be made to circulate cement to the surface on the intermediate string and 5,500' on the production string. A bond log will be run across the zone of interest and across zones as required by the authorized officer to insure protection of natural resources.

8. Anticipated Abnormal Pressures and Temperatures, Other Potential Hazards

No abnormal temperatures or pressures are anticipated. No H₂S has been encountered in or known to exist from previous wells drilled to similar depths in the general area. Maximum anticipated bottom hole pressure equals approximately 10,900 psi. Maximum anticipated bottom hole temperature is 305° F.

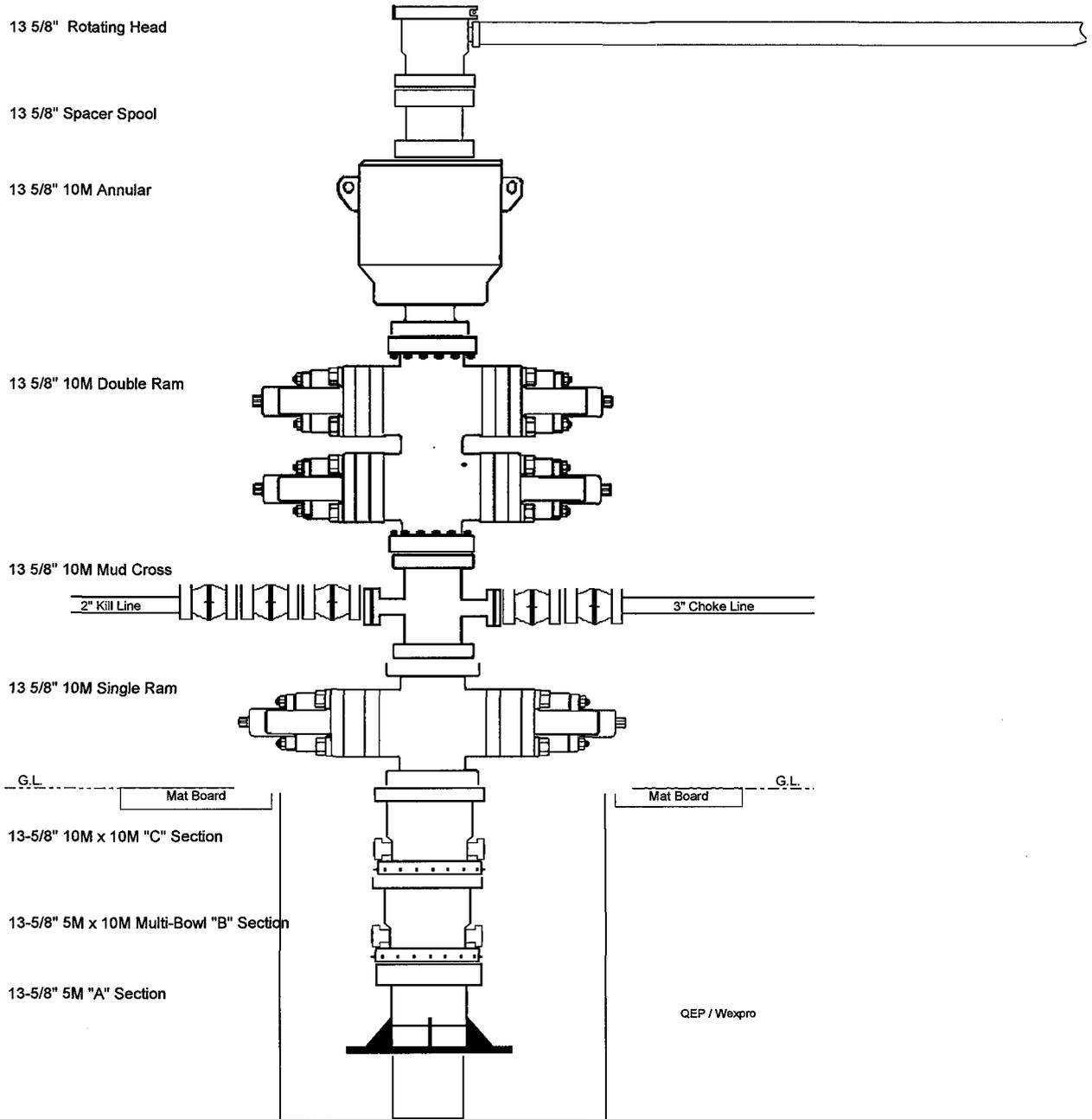
9. ADDITIONAL INFORMATION FOR OIL BASE MUD:

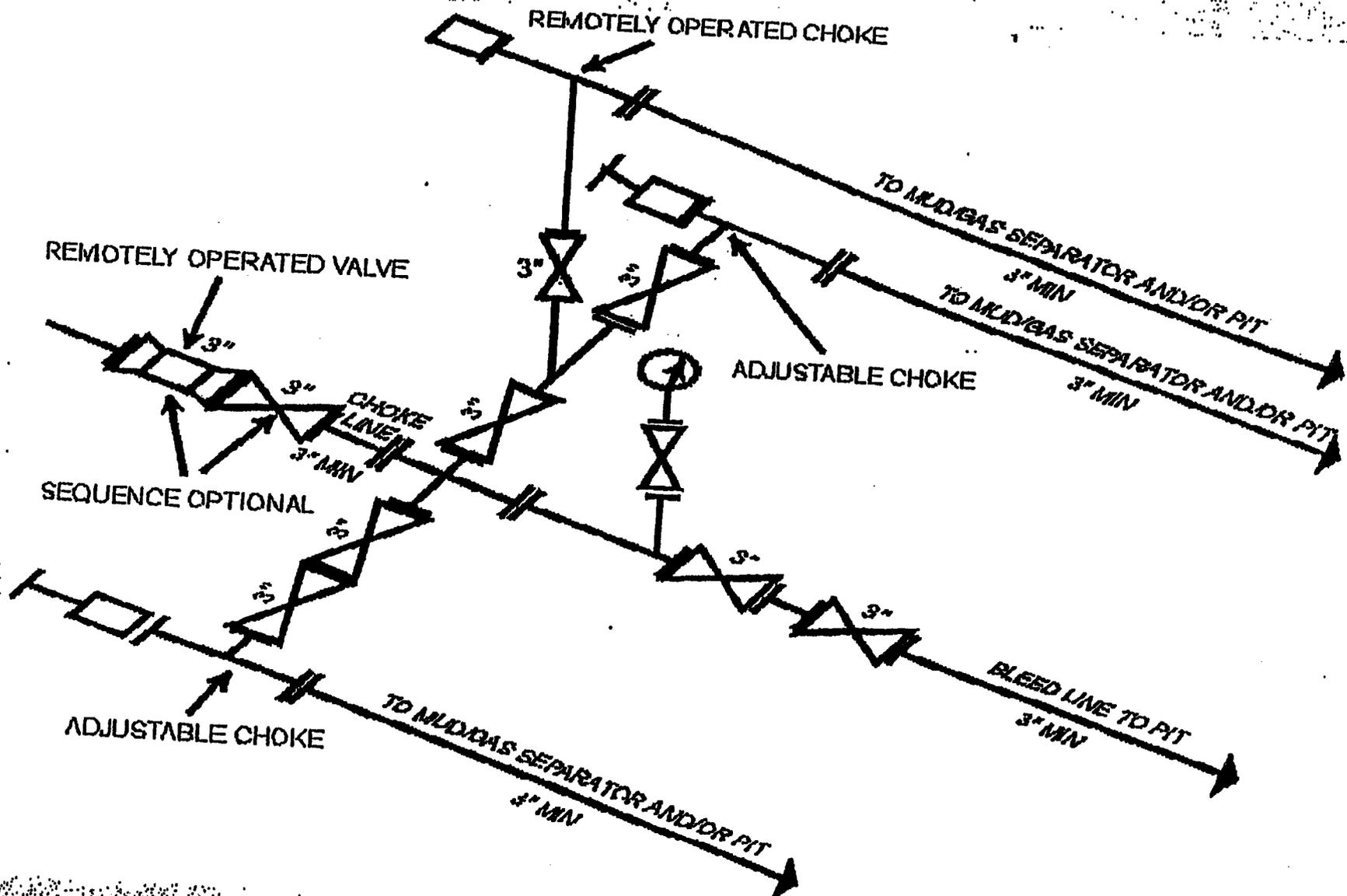
A. See attached diagram of well pad layout. A reserve pit will be constructed for this location. This pit will be constructed so that a minimum of two vertical feet of freeboard exists above the top of the pit at all times and at least one-half of the holding capacity will be below ground level. The pit will be lined with a synthetic reinforced liner, 30 millimeters thick, with sufficient bedding used to cover any rocks prior to putting any fluids into the pit. The pad will be designed so that runoff from adjacent slopes does not flow into the reserve pit. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. At the beginning of drilling operations this reserve pit will have an open-ended dike placed in the pit that allows the fluids to migrate from one side of the pit to the other during the drilling of the surface and intermediate hole using water based mud. At the time that operations begin to drill the production hole with oil base mud, this dike will be extended, dividing the pit into two distinct, isolated halves allowing no migration of fluids from one side to the other. At that time all fluids will be removed from the end of the pit to be used as a cuttings pit. This cuttings pit will be used for oil based cuttings generated during drilling of the production hole.

DRILLING PROGRAM

- B.** Oil-base mud will be mixed in the closed circulating system and transferred to four 500-bbl tanks on location for storage prior to and after drilling operations. Drip pans will be installed below the rotary beams on the substructure and can be viewed on site from the cellar area. As the production section of the hole is drilled, the cuttings transported to the surface with the drilling fluid will be mechanically separated from the drilling fluid as waste by two shale-shakers and then cleaned/dried via a mud cleaner and/or centrifuge. These separated cuttings will be collected in a steel catch tank once they leave the closed circulating system and transported and placed into the cuttings half of the reserve pit.
- C.** Plastic material will underlay the rig, oil base mud/diesel storage tanks and mud pits. All tanks on location will be placed inside of berms. Any oily waste fluids and sediments generated at the work site during drilling operations or when cleaning the fluid containment system after drilling will also be placed into the cuttings half of the pit.
- D.** All rig ditches will be lined and directed to a lined sump for fluid recovery. A drip pan will be installed on the BOP stack, a mud bucket will be utilized as needed on connections and a vacuum system will be used on the rig floor for fluid recovery in those areas.
- E.** Once all waste has been placed in the cuttings portion of the pit and all necessary approvals obtained, the oilfield waste management consultant Soli-Bond or a similar company will mobilize equipment and personnel to the site to perform the cement based solidification/stabilization process in-situ for encapsulation. Soil will be backfilled over the processed material used on the cuttings side of the pit and that portion of the pit area will be returned to the existing grade bordering the pit. Please see the attached Soli-Bond Proposal for Processing and Disposal of Drilling Waste for specific details. The half of the reserve pit containing water base materials will be left to evaporate and will be closed and reclaimed at the time that portion of the pit is dry.

DRILLING PROGRAM



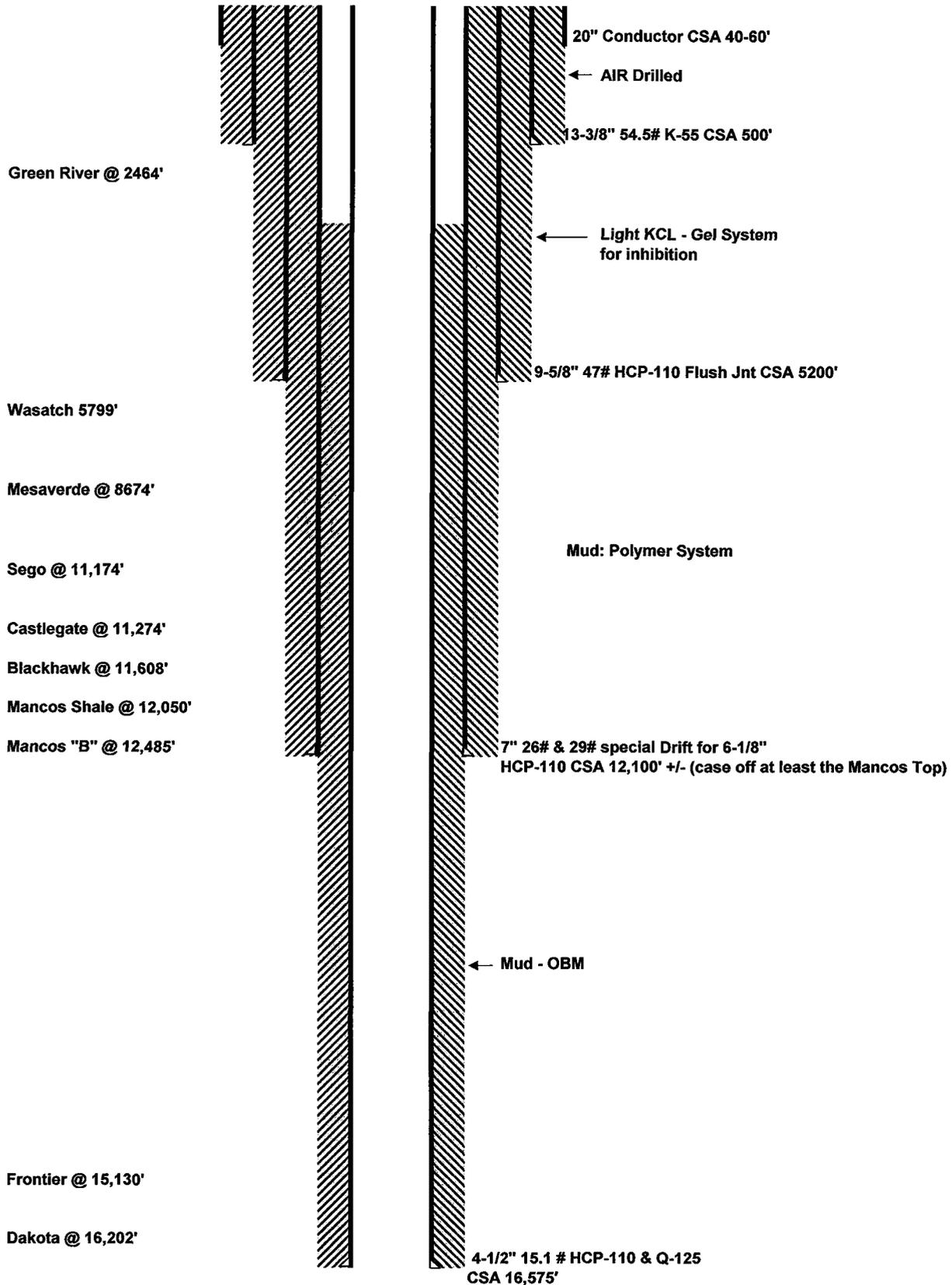


1-4 10M and 15M Choke Manifold Equipment -- Configuration of chokes may vary

[54 FR 39528, Sept. 27, 1989]

Last Updated March 25, 1997 by John Broderick

WV 13D-23-8-21



DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: QUESTAR EXPLORATION & PRODUCTION CO

Well Name: WV 13D-23-8-21

Api No: 43-047-39663 Lease Type: FEDERAL

Section 23 Township 08S Range 21E County UINTAH

Drilling Contractor PETE MARTIN DRILLING RIG # RATHOLE

SPUDDED:

Date 04/06/08

Time 10:00 AM

How DRY

Drilling will Commence: _____

Reported by KERRY SALES

Telephone # (435) 828-0385

Date 04/07/08 Signed CHD

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir
Use "APPLICATION FOR PERMIT--" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Gas
 Well Well Other

2. Name of Operator
QUESTAR EXPLORATION & PRODUCTION CO.

3. Address and Telephone No.
11002 EAST 17500 SOUTH - VERNAL, UT 84078
 Contact: **Dahn.Caldwell@questar.com**
435-781-4342 Fax 435-781-4357

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
670' FSL, 973' FWL, SWSW, SEC 23-T8S-R21E

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5. Lease Designation and Serial No.
UTU-025963

6. If Indian, Allottee or Tribe Name
UTE TRIBE

7. If Unit or CA, Agreement Designation
N/A

8. Well Name and No.
WV 13D 23 8 21

9. API Well No.
43-047-39663

10. Field and Pool, or Exploratory Area
NATURAL BUTTES

11. County or Parish, State
UINTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>SPUD</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note) Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work)

On 4/6/08 - Drilled 90' of 30" conductor hole. Set 90' of 20" conductor pipe. Cmtd w/ Ready Mix.

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3 - BLM, 2- Utah OG&M, 1 - Denver, 1 - file Word file-server

14. I hereby certify that the foregoing is true and correct.
Signed Dahn F. Caldwell Title Office Administrator II Date 4/7/08

(This space for Federal or State office use)
Approved by: _____ Title _____ Date _____
Conditions of approval, if any _____

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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	16813	43-047-39663	WV 13D 23 8 21	SWSW	23	8S	21E	Uintah	4/6/08	4/28/08
WELL 1 COMMENTS: DKTA										CONFIDENTIAL	
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)


Signature

Office Administrator II 4/7/08
Title Date

Phone No. (435)781-4342

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43-047.39463
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Operations Summary Report

Legal Well Name: WV 13D-23-8-21
 Common Well Name: WV 13D-23-8-21
 Event Name: DRILLING
 Contractor Name: Unit Drilling Co.
 Rig Name: UNIT

Start: 4/8/2008
 Rig Release: End:
 Rig Number: 109 Group:

Spud Date: 4/6/2008

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
4/9/2008	06:00 - 10:00	4.00	LOC	2	DRLCON	DRILL 30" HOLE 90' DEEP SET 20" PIPE AND CEMENTED. SPUD ON 04/06/08 AT 10:00 HRS.
	10:00 - 01:00	15.00	DRL	9	DRLSUR	DRILL FROM 90' TO 560'. 22' OF RAT HOLE. BLOW DOWN HOLE AND LAY DOWN PIPE.
	01:00 - 03:00	2.00	CSG	2	CSGSUR	RUN 12 JOINTS OF 13 3/8", J-55, 54.5#, STC AS FOLLOWS: SHOE AT 538', FLOAT COLLAR AT 492'. RAN 3 CENTRALIZERS ON BOTTOM 3 JOINTS AND ONE AT 134'.
4/28/2008	03:00 - 06:00	3.00	CMT	2	CSGSUR	CEMENT SURFACE AS FOLLOWS:
	06:00 - 06:00	24.00	LOC	4	RDMO	RIG DOWN BOILER LINES - FINISH RIGGING DOWN FLOOR - LOWER DERRICK - RIG DOWN 30% OF ELECTRICAL LINES - FINISH RIGGING DOWN MUD TANKS - RIG DOWN FRONT WINTERIZING TARP - LOAD OUT TOP DRIVE MOTOR UNIT AND DRIP PANS FOR REPAIRS ON NEW LOCATION - RIG DOWN AIR HOIST - RIG DOWN STAND PIPE TO PUMPS - TWO GUYS CLEANING SUBS ALL NIGHT
4/29/2008	06:00 - 18:00	12.00	LOC	4	RDMO	RIG DOWN - SET RIG LINER ON NEW LOCATION -60% OF BACKEND MOVED OUT - BAR HOPPERS AND STANDS MOVED - BUSTER RIGGED DOWN - 80% FLARE LINES RIGGED DOWN - DERRICK SHOULD BE ON GROUND IN MORNING FOR HO OILER TO CLEAN DERRICK - WELDERS LINED UP TO WORK UN MUD TANKS IN MORNING - ODS DOG HOUSE LOWERED - WILL LIFT BOP STACK TOMORRO AND INSERT PACK OFF AND NIGHT CAP
4/30/2008	18:00 - 06:00	12.00	LOC	4	RDMO	WAIT ON DAYLIGHTS
	06:00 - 18:00	12.00	LOC	4	RDMO	213 MAT BOARDS MOVED OUT - DERRICK SET DOWN AND OFF TO SIDE FOR HOTOILER TO CLEAN OFF AS GOOD AS HE CAN - 18 LOADS HAULED OUT - DS TOP SUB LOWERED - BOP'S NIPPLED DOWN AND PACKOFF AND NIGHT CAP INSTALLED - MUD TANKS SET - CHOKE HOUSE SET - BOTH WINTERIZING BUILDINGS SET - 213 MATS SET - TOP DRIVE MOTOR ASSEMBLY 213 DONE - DETROIT MECHANIC SHOWING UP IN MORNING - OLD LOCATION BROKE DOWN WILL BE REPAIRED IN MORNING - NEW CRANE TO SHOW UON NEW LOCATION
5/1/2008	18:00 - 06:00	12.00	LOC	4	RDMO	WAIT ON DAYLIGHTS
	06:00 - 18:00	12.00	LOC	4	MIRU	RIG UP 30% COMPLETE- SET PARTS HOUSE, HOPPER HOUSE, SCR, MOTOR PACKAGE, DIESEL TANK, BAR HOPPERS, SET SUB MATS & BOTTOM SUBS, RIGGED UP MUD LINES & AIR LINES IN MOTOR SHEDS & PUMP SHEDS. MECHANIC IS STILL WORKING ON TOP DRIVE MOTOR. WELDERS ARE FABING CHUTE & CUTTINGS DISCHARGE LINE FOR SHALE SHAKERS. HOUSES, DERRICK & 4" DRILL STRING STILL ON OLD LOCATION. WILL START RIGGING DOWN & MOVING HOUSES FIRST THING IN THE MORNING. BLADE HAS STARTED CLEAN UP ON OLD LOCATION. WAIT ON DAYLIGHTS
5/2/2008	18:00 - 06:00	12.00	LOC	4	MIRU	RIG UP 50% COMPLETE- NIPPLED UP BOP, SET TOP SUB SECTIONS & SPREADERS, CENTERED SUBS OVER HOLE & SET DRAWWORKS, RIGGED UP GRASSHOPPER, POWER CORDS TO MOTORS & PUMPS. SET STANDS FOR SOLIDS CONTROL EQUIPMENT. WELDERS FINISHED FABING CUTTINGS DISCHARGE LINE FOR SHALE SHAKERS. MECHANIC FINISHED REPAIRS TO TOP DRIVE MOTOR & UNITS MECHANIC INSTALLED NEW AIR CONTROL VALVE & RELAYS FOR EATON BRAKE. CLEANED OLD LOCATION , DERRICK & 4" DP STILL ON OLD LOCATION.
	06:00 - 18:00	12.00	LOC	4	MIRU	

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Operations Summary Report

Legal Well Name: WV 13D-23-8-21
 Common Well Name: WV 13D-23-8-21
 Event Name: DRILLING
 Contractor Name: Unit Drilling Co.
 Rig Name: UNIT

Start: 4/8/2008
 Rig Release:
 Rig Number: 109

Spud Date: 4/6/2008
 End:
 Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
5/2/2008	18:00 - 06:00	12.00	LOC	4	MIRU	WAIT ON DAYLIGHT
5/3/2008	06:00 - 18:00	12.00	LOC	4	MIRU	RIG UP (70% COMPLETE)- SET SOLIDS CONTROL EQUIPMENT, SET GAS BUSTER & HOOK UP BUSTER LINES & FLOW LINE, HOOK UP MUD LINES IN SUB, TIGHTEN STACK, PIN DERRICK & BOARD & SET ON STAND. HAULED 4" DRILL STRING (2 LOADS OF 4" DP LEFT ON OLD LOCATION)
5/4/2008	18:00 - 06:00	12.00	LOC	4	MIRU	WAIT ON DAYLIGHT
	06:00 - 18:00	12.00	LOC	4	MIRU	RIG UP (85% COMPLETE)- SET DOG HOUSE, PARTS HOUSE, BEAVER SLIDE & CATWALK, STRUNG BLOCKS, SET FLARE BOX, RIGGED UP & BURIED FLARE LINES, WELDERS COMPLETED GUN LINES FOR SHALE SHAKER POSSUM BELLIES & RE FABBED CHOKE LINES GOING TO BUSTER. FINISHED WITH TRUCKS & CRANE.
5/5/2008	18:00 - 06:00	12.00	LOC	1	MIRU	WAIT ON DAYLIGHT
	06:00 - 18:00	12.00	LOC	4	MIRU	RIG UP (90% COMPLETE)- PREPARE & INSPECT DERRICK, RAISE DERRICK (30 MIN. STRESS TEST), RIG UP FLOOR, LOWER CATWALK, PREPARE MUD TANKS FOR FILLING, FILL DAY TANKS, INSPECT TOP DRIVE & TORQUE TUBES, WELDER FINISHED FABBING COVERS FOR SHALE SHAKERS.
5/6/2008	18:00 - 06:00	12.00	LOC	4	MIRU	WAIT ON DAYLIGHT
	06:00 - 08:00	2.00	LOC	4	MIRU	SLIP 96' DRILL LINE ON TO DRUM - FINISH BRIDAL DOWN
	08:00 - 11:30	3.50	LOC	4	MIRU	PICK UP SWIVEL AND CHANGE OIL AND PACKING
	11:30 - 13:30	2.00	LOC	4	MIRU	START RIGGING UP TORQUE TUBES AFTER INSPECTION
	13:30 - 14:30	1.00	LOC	4	MIRU	HELP WELDER ON NEW HOOK UP ON FLOW LINE TO NEW RT. HEAD
	14:30 - 17:00	2.50	LOC	4	MIRU	WORK AT RIGGING UP TORQUE TUBE
	17:00 - 18:00	1.00	LOC	4	MIRU	INSTALL NEW FLOW LINE SECTION TO RT. HEAD
5/6/2008	18:00 - 21:00	3.00	LOC	4	MIRU	FINISH RIGGING UP RT. HEAD VALVE ASS., PUT NEW STUDS IN RT. HEAD, TORQUE UP FLOW LINE
	21:00 - 06:00	9.00	LOC	4	MIRU	FINISH INSTALLING TORQUE TUBE, INSTALL T-BAR ASSEMBLY, CHANGE OUT 1" BLEED OFF LINE IN ACCUMALATOR - FINISH INSTALLING STANDPIPE SCREEN ASSEMBLY - STILL WAITING FOR NEW 37 PIN FOR TOP DRIVE, ALSO WAITING FOR TECH. FOR REPAIRING UPPER KELLY VALVE SWITCH - NEW FAN BLADE FOR TOP DRIVE MOTOR TO BE HERE THIS AM - CEMENT FOR CELLAR TO SHOW UP THIS MORNING
5/7/2008	06:00 - 12:00	6.00	LOC	4	MIRU	BRING TOP DRIVE TO FLOOR - CANNOT SCREW INTO UNIT AS MOTOR NOT WORKING YET - HANG SERVICE LOOP
	12:00 - 13:00	1.00	LOC	4	MIRU	SHOVEL CEMENT IN TO CELLAR
	13:00 - 18:00	5.00	LOC	4	MIRU	DO GENERAL RIG UP - START FILLING MUD PITS - CHANGE OIL IN TOP DRIVE - RIG UP SERVICE LINES FOR DRIVE PANEL - THREE HANDS WORKING ON TOP DRIVE WHILE OTHERS DOING GENERAL RIG UP THAT COULD BE DONE WHILE TESTING
	18:00 - 23:00	5.00	LOC	4	MIRU	FINISH GENERAL RIG UP WHILE WAITING ON TOP DRIVE MOTOR WILL NOT RUN - FUNCTION TESTED AGITATORS - TROBLE SHOOT BREAKERS - PUT SHAKER SCREENS ON - ADJUST RIG LINER ON DITCHES ECT. - PICKED UP XO AND LIFT SUBS TO FLOOR - HELP WEATHORFORD INSTALL NEW CLAMP ASSEMBLY RT. HEAD - CIRCULATE RESERVE PIT
5/7/2008	23:00 - 06:00	7.00	RIG	2	MIRU	UNIT MECHANICS - TESCO AND DETROIT ON LOCATION TRYING TO GET MOTOR STARTED - MOTOR FIRED UP AT 0530 - TESTERS AND BLM ON CALL WAITING - OFFICE CAN DECIDE TOTAL DOWN TIME HOURS USING THIS TROUBLED TIME AS A

Operations Summary Report

Legal Well Name: WV 13D-23-8-21
 Common Well Name: WV 13D-23-8-21
 Event Name: DRILLING
 Contractor Name: Unit Drilling Co.
 Rig Name: UNIT

Start: 4/8/2008
 Rig Release: Group:
 Rig Number: 109

Spud Date: 4/6/2008
 End:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
5/7/2008	23:00 - 06:00	7.00	RIG	2	MIRU	MARKER OF INTEREST - TOOLPUSHER DOING GOOD JOB OF MANAGING TIME AND HANDS - I WILL SHOW TROUBLED TIME UNTIL TESTERS SHOW UP
5/8/2008	06:00 - 10:00	4.00	LOC	4	MIRU	RIG UP TOP DRIVE & TORQUE CONNECTIONS, PICK UP BALES & ELEVATORS, HOOK UP EXTEND & LINK TILT CYLINDERS, HOOK UP KELLY HOSE. (WENT ON DAYWORK ON 5/7/08 @ 10AM)
	10:00 - 20:00	10.00	BOP	2	DRLIN1	PRESSURE TEST BOP- 250 PSI LOW FOR 5 MIN., 5000 PSI HI FOR 10 MIN., ANNULAR- 250 PSI LOW FOR 5 MIN, 2500 PSI FOR 10 MIN., CSG- 1500 PSI FOR 30 MIN. ACCUMALATOR FUNCTION TEST OK. UPPER & LOWER IBOP VALVES DID NOT TEST. NEW IBOP TESTED OK
5/9/2008	20:00 - 21:30	1.50	RIG	2	DRLIN1	REPLACE IBOP
	21:30 - 22:30	1.00	BOP	2	DRLIN1	INSTALL WEAR BUSHING
	22:30 - 00:30	2.00	OTH		DRLIN1	READJUST TORQUE TUBE TO CENTER TOP DRIVE OVER HOLE
	00:30 - 01:00	0.50	EQT	5	DRLIN1	PRESSURE TEST MUD LINES TO 4000 PSI
	01:00 - 02:00	1.00	TRP	1	DRLIN1	MAKE UP 12 1/4 BIT, PICK UP & SURFACE TEST MUD MOTOR
	02:00 - 06:00	4.00	TRP	1	DRLIN1	PICK UP BHA & TRIP IN
	06:00 - 06:30	0.50	TRP	1	DRLIN1	INSTALL ROT. HEAD
	06:30 - 07:30	1.00	RIG	2	DRLIN1	REPAIR LEAK ON MUD LINE
	07:30 - 10:30	3.00	DRL	4	DRLIN1	DRILL CEMENT & FLOAT EQUIPMENT & 10' OF NEW HOLE (TAGGED CEMENT @ 507')
	10:30 - 11:30	1.00	EQT	2	DRLIN1	CIRCULATE & PERFORM FIT TO 10.5 EQUIVALENT
	11:30 - 12:30	1.00	RIG	2	DRLIN1	UNIT MECHANIC INSPECTED & INSTALLED 3-WAY BRAKE CONTROL VALVE FOR EATON BRAKE.
	12:30 - 23:00	10.50	DRL	1	DRLIN1	DRILL F/ 563'-1004', WOB- 8/12K, RPM- 135 COMBINED, GPM- 770, MW- 8.4, VIS- 28, PUMPING 10 BBL HI VIS SWEEPS EVERY 100' FOR HOLE CLEANING
	23:00 - 23:30	0.50	SUR	1	DRLIN1	CIRCULATE & SURVEY @ 1004', SURVEY DEPTH- 935'- .4 INC, 103.8 AZ
	23:30 - 00:30	1.00	RIG	1	DRLIN1	LUBRICATE RIG & TOP DRIVE, FUNCTION ANNULAR & COM, REPLACE 2" FILL UP LINE VALVE
00:30 - 03:00	2.50	DRL	1	DRLIN1	DRILL F/ 1004'-1126', DRLG WITH SAME PARAMETERS, MW & VIS, PUMPING HI VIS SWEEPS EVERY 100'	
03:00 - 04:00	1.00	TRP	1	DRLIN1	PULL ROT. HEAD, PICK UP JARS & REINSTALL ROT. HEAD	
04:00 - 06:00	2.00	DRL	1	DRLIN1	DRILL F/ 1126'-1195', DRLG WITH SAME PARAMETERS, MW & VIS, PUMPING HI VIS SWEEPS EVERY 100', BG GAS- 10u, CONN GAS- 100u	
5/10/2008	06:00 - 11:30	5.50	DRL	1	DRLIN1	DRILL F/ 1195'-1430', WOB- 8/12K, RPM- 135 COMBINED, GPM- 770, MW- 8.4, 28, PUMPING 10 BBL HI VIS SWEEPS EVERY 100' FOR HOLE CLEANING, RUNNING ALL SOLIDS CONTROL EQUIPMENT & MAKE UP WATER TO CONTROL MW & VIS, BG GAS- 10u, CONN GAS- 100u
	11:30 - 12:30	1.00	RIG	1	DRLIN1	LUBRICATE RIG & TOP DRIVE, FUNCTION TOP PIPE RAMS & COM
	12:30 - 17:00	4.50	DRL	1	DRLIN1	DRILL F/ 1430'-1646', DRLG WITH SAME PARAMETERS, MW & VIS
	17:00 - 18:00	1.00	RIG	2	DRLIN1	REPLACE LEAKING BEARING ASSEMBLY ON ROT. HEAD
	18:00 - 04:30	10.50	DRL	1	DRLIN1	DRILL F/ 1646'-2049', DRLG WITH SAME PARAMETERS, MW & VIS, PUMPING HI VIS SWEEPS EVERY 100'
	04:30 - 05:00	0.50	SUR	1	DRLIN1	CIRC. & SURVEY @ 2049', SURVEY DEPTH- 1980', .5 DEG., 103.7 AZ
5/11/2008	05:00 - 06:00	1.00	DRL	1	DRLIN1	DRILL F/ 2049'-2090', WOB- 10-12K, RPM- 135 COMBINED, GPM- 770, MW- 8.4, VIS- 30, BG GAS- 10u, CONN GAS- 100u
	06:00 - 14:00	8.00	DRL	1	DRLIN1	DRILL F/ 2090'-2357', WOB- 12/18K, RPM- 135 COMBINED, GPM- 770, MW- 8.5, VIS- 28, PUMPING HI VIS SWEEPS EVERY 100' FOR

Operations Summary Report

Legal Well Name: WV 13D-23-8-21
 Common Well Name: WV 13D-23-8-21
 Event Name: DRILLING
 Contractor Name: Unit Drilling Co.
 Rig Name: UNIT

Spud Date: 4/6/2008
 Start: 4/8/2008
 End:
 Rig Release:
 Group:
 Rig Number: 109

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
5/11/2008	06:00 - 14:00	8.00	DRL	1	DRLIN1	HOLE CLEANING & RUNNING SOLIDS CONTROL EQUIPMENT & RESERVE PIT WATER TO CONTROL MW & VIS
	14:00 - 15:00	1.00	RIG	1	DRLIN1	LUBRICATE RIG & TOP DRIVE, FUNCTION LOWER PIPE RAMS & COM
	15:00 - 19:00	4.00	DRL	1	DRLIN1	DRILL F/ 2357'-2484', WOB- 18/22K, RPM- 135 COMBINED, GPM- 770, MW- 8.6, VIS- 28, PUMPING HI VIS SWEEPS FOR HOLE CLEANING, RUNNING SOLIDS CONTROL EQUIPMENT & RESERVE PIT WATER TO CONTROL MW & VIS
	19:00 - 20:30	1.50	RIG	2	DRLIN1	CLEAN SUCTION VALVES ON BOTH PUMPS
	20:30 - 05:30	9.00	DRL	1	DRLIN1	DRILL F/ 2484'-2640', DRLG WITH SAME PARAMETERS, MW & VIS
5/12/2008	05:30 - 06:00	0.50	SUR	1	DRLIN1	DROP SURVEY & PUMP TRIP SLUG
	06:00 - 08:30	2.50	TRP	10	DRLIN1	TRIP OUT F/ BIT #1 (HOLE FILL 15 BBLs OVER CALCULATED)
	08:30 - 09:30	1.00	TRP	1	DRLIN1	BREAK BIT, LAY DOWN MUD MOTOR & RETRIEVE SURVEY TOOL, FUNCTIONED BLIND RAMS
	09:30 - 10:30	1.00	TRP	1	DRLIN1	PICK UP & SURFACE TEST NEW MUD MOTOR
	10:30 - 12:00	1.50	TRP	10	DRLIN1	TRIP IN WITH BIT #2
	12:00 - 12:30	0.50	TRP	10	DRLIN1	INSTALL ROT. HEAD
	12:30 - 13:00	0.50	TRP	10	DRLIN1	FINISH TRIPPING IN
	13:00 - 13:30	0.50	REAM	1	DRLIN1	WASH 65' TO BOTTOM WITH 3' OF FILL
	13:30 - 14:00	0.50	DRL	1	DRLIN1	DRILL F/ 2640'-2665', WOB- 8/12K, RPM- 135 COMBINED, GPM- 770, MW- 8.5, VIS- 28
	14:00 - 15:00	1.00	RIG	1	DRLIN1	LUBRICATE RIG & TOP DRIVE
15:00 - 06:00	15.00	DRL	1	DRLIN1	DRILL F/ 2665'-3035', WOB- 12/16K, RPM- 135 COMBINED, GPM- 770, MW- 8.5, VIS- 28, PUMPING HI VIS SWEEPS EVERY 100' & BIT BALLING SWEEPS AS NEEDED. RUNNING ALL SOLIDS CONTROL EQUIPMENT. HOLE SEEPING 4-5 BBLs/HR. BG GAS- 300u, CONN GAS- 850u	
5/13/2008	06:00 - 17:00	11.00	DRL	1	DRLIN1	DRILL F/ 3035'-3410', WOB- 12/16K, RPM- 135 COMBINED, GPM- 770, MW- 8.5, VIS- 29, PUMPING HI VIS SWEEPS EVERY 100' & BIT BALLING SWEEPS AS NEEDED, SEEPING 4-5 BBLs/HR, BG GAS- 800u, CONN GAS- 4100u
	17:00 - 18:00	1.00	RIG	1	DRLIN1	LUBRICATE RIG & TOP DRIVE, FUNCTION HCR & COM
	18:00 - 21:00	3.00	DRL	1	DRLIN1	DRILL F/ 3410'-3528', DRLG WITH SAME PARAMETERS, MW & VIS, PUMPING HI VIS SWEEPS EVERY 100' & BIT BALLING SWEEPS AS NEEDED, NO FLOW ON CONNECTIONS, BG GAS- 800u, CONN GAS- 5200u
	21:00 - 22:00	1.00	SUR	1	DRLIN1	WIRELINE SURVEY @ 3463', 1.1 DEG, 141.5 AZ
5/14/2008	22:00 - 06:00	8.00	DRL	1	DRLIN1	DRILL F/ 3528'-3719', WOB- 16K, RPM- 135 COMBINED, GPM- 770, MW- 8.5, VIS- 30, PUMPING HI VIS SWEEPS EVERY HR & BIT BALLING SWEEPS AS NEEDED, NO FLOW ON CONNECTIONS, SEEPING 4/5 BBLs/HR, BG GAS- 850u, CONN GAS- 6250u
	06:00 - 16:00	10.00	DRL	1	DRLIN1	DRILL F/ 3719'-3942', WOB- 16/18K, RPM- 140 COMBINED, GPM- 820, MW- 8.6, VIS- 29, PUMPING HI VIS SWEEPS EVERY 100' & BIT BALLING SWEEPS AS NEEDED. BG GAS- 1700u, CONN GAS- 6100u
	16:00 - 16:30	0.50	RIG	2	DRLIN1	REPLACE CENTER SWAB IN #2 PUMP
	16:30 - 19:30	3.00	DRL	1	DRLIN1	DRILL F/ 3942'-4023', DRLG W/ SAME PARAMETERS, MW & VIS, PUMPING HI VIS SWEEPS EVERY 100' & BIT BALLING SWEEPS AS NEEDED
	19:30 - 20:30	1.00	RIG	1	DRLIN1	LUBRICATE RIG & TOP DRIVE, FUNCTION ANNULAR & COM
5/15/2008	20:30 - 06:00	9.50	DRL	1	DRLIN1	DRILL F/ 4023'-4252', WOB- 18K, RPM- 140 COMBINED, GPM- 820, MW- 8.6, VIS- 27, PUMPING HI VIS SWEEPS EVERY 100' & BIT BALLING SWEEPS AS NEEDED, BG GAS- 2060u, CONN GAS- 5475u
	06:00 - 10:30	4.50	DRL	1	DRLIN1	DRILL F/ 4252'-4375', WOB- 18K, RPM- 140 COMBINED, GPM- 820,

Operations Summary Report

Legal Well Name: WV 13D-23-8-21
 Common Well Name: WV 13D-23-8-21
 Event Name: DRILLING
 Contractor Name: Unit Drilling Co.
 Rig Name: UNIT

Start: 4/8/2008
 Rig Release:
 Rig Number: 109

Spud Date: 4/6/2008
 End:
 Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
5/15/2008	06:00 - 10:30	4.50	DRL	1	DRLIN1	MW- 8.6, VIS- 27, BG GAS- 1400u, CONN GAS- 3200u, PUMPING HI VIS SWEEPS EVRY 100' & BIT BALLING SWEEPS AS NEEDED. RUNNING ALL SOLIDS CONTROL EQUIPMENT & RESERVE PIT WATER TO MAINTAIN VIS & MW.
	10:30 - 12:30	2.00	RIG	2	DRLIN1	PUMP REPAIRS- REPLACE RING GASKET FOR PULSATION DAMPNER ON #1 PUMP
	12:30 - 17:00	4.50	DRL	1	DRLIN1	DRILL F/ 4375'-4518', DRLG WITH SAME PARAMETERS, MW & VIS
	17:00 - 18:00	1.00	SUR	1	DRLIN1	CIRC. & WIRELINE SURVEY @ 4454', 1.2 DEG, 151.9 AZ
	18:00 - 19:30	1.50	DRL	1	DRLIN1	DRILL F/ 4518'-4579', DRLG WITH SAME PARAMETERS, MW & VIS
	19:30 - 20:30	1.00	RIG	1	DRLIN1	LUBRICATE RIG & TOP DRIVE, FUNCTION TOP PIPE RAMS & COM
	20:30 - 05:00	8.50	DRL	1	DRLIN1	DRILL F/ 4579'-4790', WOB- 18K, RPM- 140 COMBINED, GPM- 820, MW- 8.6, VIS- 28, BG GAS- 2250u, CONN GAS- 6630u, PUMPING HI VIS SWEEPS EVERY 100' & BIT BALLING SWEEPS AS NEEDED, SEEPING 5-6 BBLs/HR, RUNNING ALL SOLIDS CONTROL EQUIPMENT, WILL START MUD UP @ 4800'
	05:00 - 06:00	1.00	RIG	2	DRLIN1	PUMP REPAIRS- REPLACE VALVE & SEAT IN #1 PUMP
5/16/2008	06:00 - 07:00	1.00	RIG	2	DRLIN1	REPLACE ROT. HEAD BEARING ASSEMBLY (RETAINER BOLTS FOR ELEMENT FELL OUT)
	07:00 - 11:00	4.00	DRL	1	DRLIN1	DRILL F/ 4790'-4858', WOB- 18K, RPM- 140 COMBINED, GPM- 820, MW- 8.8, VIS- 31, STARTED TO MUD UP @ 4800'
	11:00 - 11:30	0.50	CIRC	1	DRLIN1	MIX TRIP SLUG & FILL TRIP TANK
	11:30 - 12:00	0.50	CIRC	1	DRLIN1	FLOW CHECK & PUMP TRIP SLUG
	12:00 - 15:00	3.00	TRP	10	DRLIN1	TRIP OUT F/ BIT #2 (HOLE FILL 14 BBLs OVER CALCULATED)
	15:00 - 16:00	1.00	TRP	1	DRLIN1	BREAK BIT & LAY DOWN MUD MOTOR, FUNCTIONED BLIND RAMS
	16:00 - 17:00	1.00	TRP	1	DRLIN1	PICK UP & SURFACE TEST NEW MUD MOTOR
	17:00 - 18:00	1.00	RIG	1	DRLIN1	LUBRICATE RIG & TOP DRIVE
	18:00 - 19:30	1.50	TRP	10	DRLIN1	TRIP IN, BREAK CIRC. EVERY 2000'
	19:30 - 20:00	0.50	TRP	10	DRLIN1	INSTALL ROT. HEAD
	20:00 - 21:30	1.50	TRP	10	DRLIN1	TRIP IN
	21:30 - 22:00	0.50	REAM	1	DRLIN1	WASH 60' TO BOTTOM, NO FILL
	22:00 - 02:30	4.50	DRL	1	DRLIN1	DRILL F/ 4858'-4982', WOB- 18K, RPM- 140 COMBINED, GPM- 820, MW- 8.7, VIS- 31, BG GAS- 2950u, TRIP GAS- 3370u WITH 20' FLARE
	02:30 - 03:00	0.50	RIG	2	DRLIN1	PUMP REPAIR- REPLACE VALVE & SEAT IN #1 PUMP
03:00 - 06:00	3.00	DRL	1	DRLIN1	DRILL F/ 4982'-5075', DRLG WITH SAME PARAMETERS, MW- 8.7, VIS- 34, BG GAS- 1650u, CONN GAS- 3390u WITH 3' FLARE, SEEPING 3 BBLs/HR	
5/17/2008	06:00 - 12:00	6.00	DRL	1	DRLIN1	DRILL F/ 5075'-5227', WOB- 18K, RPM- 140 COMBINED, GPM- 820, MW- 8.7, VIS- 32 (PICKED UP WATER FLOW @ 5100+-), BG GAS- 2500u, CONN GAS- 3600u
	12:00 - 12:30	0.50	CIRC	1	DRLIN1	FLOW CHECK- WELL FLOWING 10-12 BBLs/HR
	12:30 - 13:30	1.00	CIRC	1	DRLIN1	CIRCULATE BOTTOMS UP (SAMPLES SHOW 100% SHALE)
	13:30 - 15:30	2.00	TRP	14	DRLIN1	PUMP TRIP SLUG & SHORT TRIP 15 STDS
	15:30 - 19:00	3.50	CIRC	1	DRLIN1	CIRC. & CONDITION MUD F/ 9 5/8 CSG
	19:00 - 19:30	0.50	SUR	1	DRLIN1	DROP SURVEY
	19:30 - 20:30	1.00	CIRC	1	DRLIN1	SPOT 100 BBL ECD PILL & PUMP TRIP SLUG
	20:30 - 22:00	1.50	TRP	2	DRLIN1	TRIP OUT TO RUN 9 5/8 CSG, SLM OUT
	22:00 - 22:30	0.50	TRP	2	DRLIN1	PULL ROT. HEAD RUBBER
	22:30 - 00:00	1.50	TRP	2	DRLIN1	TRIP OUT, SLM- 5225', HOLE FILL 18 BBLs OVER CALCULATED
	00:00 - 01:00	1.00	TRP	1	DRLIN1	BREAK BIT & LAY DOWN 8" BHA
	01:00 - 02:00	1.00	TRP	2	DRLIN1	DRAIN STACK & PULL WEAR BUSHING
	02:00 - 04:30	2.50	CSG	1	DRLIN1	HOLD SAFETY MEETING & RIG UP ROCKY MTN. CSG CREW
	04:30 - 06:00	1.50	CSG	2	DRLIN1	MAKE UP FLOAT EQUIPMENT & RUN 9 5/8 CSG
5/18/2008	06:00 - 11:00	5.00	CSG	2	CSGIN1	RUN 9 5/8 CSG, FILL PIPE & BREAK CIRC. EVERY 1000'

Operations Summary Report

Legal Well Name: WV 13D-23-8-21
 Common Well Name: WV 13D-23-8-21
 Event Name: DRILLING
 Contractor Name: Unit Drilling Co.
 Rig Name: UNIT

Start: 4/8/2008
 Rig Release:
 Rig Number: 109

Spud Date: 4/6/2008
 End:
 Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
5/18/2008	11:00 - 15:00	4.00	CIRC	1	CSGIN1	CIRC. & WAIT ON ROCKY MTN. CSG TRUCK (BOTH TRUCKS BROKE DOWN-PTO & ELECTRICAL)
	15:00 - 19:00	4.00	CSG	2	CSGIN1	FINISH RUNNING 9 5/8 CSG
	19:00 - 20:30	1.50	CIRC	1	CSGIN1	LAND CSG & CIRC. OUT GAS USING FILL TOOL, RIG DOWN LAY DOWN MACHINE & CSG TONGS
	20:30 - 21:30	1.00	CSG	1	CSGIN1	RIG DOWN FILL TOOL, BALES & ELEVATORS & MAKE UP CIRC. SWEDGE
	21:30 - 23:30	2.00	CIRC	1	CSGIN1	CIRC. & CONDITION HOLE FOR CEMENT JOB
	23:30 - 03:30	4.00	CSG	7	CSGIN1	LAY DOWN LANDING JT., INSTALL PACK OFF BUSHING, PACK P. SEALS TO 8500 PSI & TEST VOID TO 5000 PSI. INSTALL CEMENT ISOLATION TOOL & RUN IN LOCK DOWN PINS. HALLIBURTON RIGGED UP CEMENT LINES.
	03:30 - 05:00	1.50	CMT	1	CSGIN1	HOLD SAFETY MEETING WITH HALLIBURTON CEMENTERS, RIG UP CEMENT HEAD & TEST CEMENT LINES TO 6000 PSI & NITROGEN LINES TO 8000 PSI
	05:00 - 06:00	1.00	CMT	2	CSGIN1	BELLY LINE STARTED LEAKING ON PUMP TRUCK, CIRC WITH RIG PUMP & WAIT ON ANOTHER PUMP TRUCK
5/19/2008	06:00 - 08:00	2.00	CIRC	1	CSGIN1	CIRC. WITH RIG PUMP & WAIT FOR ANOTHER PUMP TRUCK
	08:00 - 12:00	4.00	CMT	2	CSGIN1	RIG UP PUMP TRUCK & CEMENT 9 5/8 CSG WITH 1435 SX FOAMED CEMENT, 230 SX UNFOAMED TAIL & 200 SX CAP CEMENT, FULL RETURNS ENTIRE JOB, PLUG BUMPED & FLOATS HELD. RECOVERED 120 BBLS FOAMED CEMENT TO SURFACE.
	12:00 - 14:00	2.00	CMT	1	CSGIN1	RIG DOWN CEMENTERS
	14:00 - 15:00	1.00	CMT	1	CSGIN1	LAY DOWN CEMENT ISOLATION TOOL
	15:00 - 21:00	6.00	BOP	2	DRLIN2	RIG UP B&C QUICK TEST & PRESSURE TEST BOP, 10M HI, 250 LOW, ANNULAR- 5M, CSG- 1500
	21:00 - 22:00	1.00	BOP	2	DRLIN2	INSTALL WEAR BUSHING
	22:00 - 23:00	1.00	TRP	1	DRLIN2	PICK UP & SURFACE TEST MUD MOTOR
	23:00 - 02:00	3.00	TRP	2	DRLIN2	MAKE UP BIT, PICK UP 2 MORE DC'S & TRIP IN, BREAK CIRC. EVERY 2000'
	02:00 - 03:00	1.00	RIG	1	DRLIN2	LUBRICATE RIG & TOP DRIVE, CHANGE OUT SAVER SUB
	03:00 - 03:30	0.50	TRP	2	DRLIN2	INSTALL ROT. HEAD ELEMENT
5/20/2008	03:30 - 04:00	0.50	TRP	2	DRLIN2	TRIP IN, TAG CEMENT @ 5117'
	04:00 - 06:00	2.00	DRL	4	DRLIN2	DRILL CEMENT & FLOAT EQUIPMENT
	06:00 - 08:00	2.00	DRL	1	DRLIN2	DRILL F/ 5227'-5235', WOB- 10/18K, RPM- 118 COMBINED, GPM- 450, EXCESSIVE DRAG, PUMPED BIT BALLING SWEEPS & CHANGED WOB, RPM & GPM TO TRY IMPROVE ROP
	08:00 - 09:00	1.00	EQT	2	DRLIN2	CIRC. & FIT TO 13.5 EQUIVILENT
	09:00 - 13:30	4.50	DRL	1	DRLIN2	DRILL F/ 5235'-5268, UNABLE TO GET BIT TO DRILL, SUSPECT BIT WAS DAMAGED DRLG SHOE TRACK
	13:30 - 14:30	1.00	CIRC	1	DRLIN2	MIX TRIP SLUG & FILL TRIP TANK
	14:30 - 17:30	3.00	TRP	10	DRLIN2	PUMP TRIP SLUG & TRIP OUT F/ BIT #4, FUNCTIONED BLIND RAMS
	17:30 - 20:00	2.50	TRP	1	DRLIN2	BREAK BIT, SURFACE TEST MUD MOTOR (MOTOR WEAK), LAY DOWN MUD MOTOR, PICK UP & SURFACE TEST NEW MUD MOTOR (OK)
	20:00 - 21:00	1.00	RIG	1	DRLIN2	LUBRICATE RIG & TOP DRIVE
	21:00 - 23:30	2.50	TRP	10	DRLIN2	TRIP IN, BREAK CIRC. EVERY 2000'
5/21/2008	23:30 - 00:00	0.50	TRP	10	DRLIN2	INSTALL ROT. HEAD ELEMENT
	00:00 - 00:30	0.50	REAM	1	DRLIN2	WASH 30 TO BOTTOM, NO FILL
	00:30 - 06:00	5.50	DRL	1	DRLIN2	DRILL F/ 5268'-5415', WOB- 8/12K, RPM- 120 COMBINED, GPM- 450-480, BG GAS- 50u, CONN GAS- 200u
	06:00 - 14:00	8.00	DRL	1	DRLIN2	DRILL F/ 5415'-5557', WOB- 8/12K, RPM- 125 COMBINED, GPM- 490,

Operations Summary Report

Legal Well Name: WV 13D-23-8-21
 Common Well Name: WV 13D-23-8-21
 Event Name: DRILLING
 Contractor Name: Unit Drilling Co.
 Rig Name: UNIT

Start: 4/8/2008
 Rig Release:
 Rig Number: 109

Spud Date: 4/6/2008
 End:
 Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
5/21/2008	06:00 - 14:00	8.00	DRL	1	DRLIN2	MW- 8.9, VIS- 35, PUMPING BIT BALLING SWEEPS AS NEEDED, BG GAS- 20u, CONN GAS- 120u, SEEPING 2-3 BBLS/HR
	14:00 - 15:00	1.00	RIG	1	DRLIN2	LUBRICATE RIG & TOP DRIVE, FUNCTION TOP PIPE RAMS & COM
	15:00 - 04:00	13.00	DRL	1	DRLIN2	DRILL F/ 5557'-5698', WOB- 12/20K, RPM- 125 COMBINED, GPM- 490, MW- 8.9, VIS- 35, PUMPING BIT BIT BALLING SWEEPS AS NEEDED. TRIED CHANGING DRLG PARAMETERS TO IMPROVE ROP WITH NO SUCCESS.
	04:00 - 04:30	0.50	CIRC	1	DRLIN2	MIX TRIP SLUG & FILL TRIP TANK
	04:30 - 05:00	0.50	SUR	1	DRLIN2	DROP SURVEY & PUMP TRIP SLUG
5/22/2008	05:00 - 05:30	0.50	TRP	10	DRLIN2	TRIP OUT 10 STDS
	05:30 - 06:00	0.50	TRP	10	DRLIN2	PULL ROT. HEAD ELEMENT
	06:00 - 08:30	2.50	TRP	10	DRLIN2	TRIP OUT F/ BIT #5, HOLE FILL 23 BBLS OVER CALCULATED
	08:30 - 09:00	0.50	RIG	2	DRLIN2	REPAIR BREAK OUT CABLE
	09:00 - 09:30	0.50	TRP	1	DRLIN2	BREAK BIT & RETRIEVE SURV. TOOL, FUNCTIONED BLIND RAMS
	09:30 - 10:00	0.50	TRP	1	DRLIN2	SURFACE TEST MUD MOTOR (OK)
	10:00 - 13:00	3.00	TRP	10	DRLIN2	TRIP IN, BREAK CIRC. EVERY 2000'
	13:00 - 13:30	0.50	TRP	10	DRLIN2	INSTALL ROT. HEAD ELEMENT
	13:30 - 14:30	1.00	RIG	6	DRLIN2	CUT & SLIP 160' DRLG LINE, RESET COM
	14:30 - 15:00	0.50	RIG	1	DRLIN2	LUBRICATE RIG & TOP DRIVE
	15:00 - 15:30	0.50	TRP	10	DRLIN2	TRIP IN
	15:30 - 16:00	0.50	REAM	1	DRLIN2	WASH 115' TO BOTTOM, 3' OF FILL
	16:00 - 06:00	14.00	DRL	1	DRLIN2	DRILL F/ 5698'-6044', WOB- 8/12K, RPM- 115 COMBINED, GPM- 470, MW- 8.9, VIS- 40, SLIGHT BIT BALLING, PUMPING SWEEPS AS NEEDED, SEEPING 2-3 BBLS/HR
5/23/2008	06:00 - 15:30	9.50	DRL	1	DRLIN2	DRILL FROM 6044 TO 6262
	15:30 - 16:30	1.00	RIG	1	DRLIN2	SERVICE RIG AND TOP DRIVE
	16:30 - 18:00	1.50	DRL	1	DRLIN2	DRILL FROM 6262 TO 6341 - HEAVY BIT BALLING STARTED AT 6280 - SWEEPING HOLE EVERY HALF HOUR WITH 5 BBL SWEEPS
	18:00 - 19:00	1.00	DRL	1	DRLIN2	ONE HOUR SHOWING TIME FOR CONNECTIONS AND SLOW PUMP RATES
	19:00 - 06:00	11.00	DRL	1	DRLIN2	DRILL FROM 6341 TO 6650 - CONNECTION GAS NOW UP TO 825 UNITS - CUTTINGS STILL LOOK GOOD FOR 8.9 MUD WT. RUNNING BIT BALLING SWEEPS EVERY HOUR NOW
5/24/2008	06:00 - 15:30	9.50	DRL	1	DRLIN2	DRILL FROM 6650 TO 6883
	15:30 - 16:30	1.00	RIG	1	DRLIN2	SERVICE RIG AND TOP DRIVE
	16:30 - 18:00	1.50	DRL	1	DRLIN2	DRILL FROM 6883 TO 6940
	18:00 - 19:00	1.00	DRL	1	DRLIN2	SLOW PUMP RATES AND CONNECTIONS = 1 HOUR
	19:00 - 06:00	11.00	DRL	1	DRLIN2	DRILL FROM 6940 TO 7215 - HOLE SEEPING 3 BBLS PH - STILL NEEDING BIT BALLING SWEEPS EVERY HALF HOUR - 5 BBLS- 10 BBLS ON THE HOUR
5/25/2008	06:00 - 08:00	2.00	DRL	1	DRLIN2	DRILL FROM 7215 TO 7256
	08:00 - 09:00	1.00	OTH		DRLIN2	CHECK BOTH PUMPS OUT- ALL VALVES AND STAND PIPE SCREEN - MADE CONNECTION AND INCREASED 425 PSI OFF BOTTOM - COULD NOT FIND ANYTHING - WENT BACK TO DRILLING
	09:00 - 16:30	7.50	DRL	1	DRLIN2	DRILL FROM 7256 TO 7380 - PSI DROPPED BACK TO NORMAL AFTER 45 MIN. OFF DRILLING
	16:30 - 17:30	1.00	RIG	1	DRLIN2	SERVICE RIG AND TOP DRIVE
	17:30 - 18:00	0.50	DRL	1	DRLIN2	DRILL FROM 7380 TO 7418
5/26/2008	18:00 - 21:30	3.50	DRL	1	DRLIN2	DRILL FROM 7418 TO 7467
	21:30 - 22:00	0.50	RIG	2	DRLIN2	ELECTRIC FUEL PUMP FOR MAIN FUEL LINE PRESSURE FAILED
	22:00 - 06:00	8.00	DRL	1	DRLIN2	DRILL FROM 7467 TO 7622
	06:00 - 13:30	7.50	DRL	1	DRLIN2	DRILL FROM 7620 TO 7753

Operations Summary Report

Legal Well Name: WV 13D-23-8-21
 Common Well Name: WV 13D-23-8-21
 Event Name: DRILLING
 Contractor Name: Unit Drilling Co.
 Rig Name: UNIT

Spud Date: 4/6/2008
 Start: 4/8/2008
 End:
 Rig Release:
 Group:
 Rig Number: 109

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
5/26/2008	13:30 - 14:30	1.00	RIG	1	DRLIN2	SERVICE RIG AND TOP DRIVE
	14:30 - 18:00	3.50	DRL	1	DRLIN2	DRILL FROM 7753 TO 7815
	18:00 - 18:30	0.50	DRL	1	DRLIN2	SLOW PUMP RATES AND CONNECTIONS
	18:30 - 06:00	11.50	DRL	1	DRLIN2	DRILL FROM 7815 TO 7980 - NO SWEEPS IN LAST 20 HOURS - HOLE SEEPING 2 BBLs PH - LITHOLOGY = 50% SHALE - 50% SS - WILL BE TRIPPING THIS AM
5/27/2008	06:00 - 08:00	2.00	DRL	1	DRLIN2	DRILL FROM 7980 TO 8000 - PICKING UP CHATTER ON FLOOR - ALSO PICKING UP SMALL TORQUE INCREASES
	08:00 - 08:30	0.50	CIRC	1	DRLIN2	CIRCULATE BOTTOMS UP FOR SURVEY
	08:30 - 09:00	0.50	SUR	1	DRLIN2	DROP SURVEY - 1.4 - 158.6 - SURVEY DEPTH = 7933
	09:00 - 09:30	0.50	CIRC	1	DRLIN2	CIRCULATE BOTTOMS UP AFTER SURVEY
	09:30 - 10:30	1.00	TRP	10	DRLIN2	TRIP OUT FOR BIT
	10:30 - 11:00	0.50	BOP	1	DRLIN2	PULL RT. HEAD
	11:00 - 13:30	2.50	TRP	10	DRLIN2	FINISH TRIP OUT
	13:30 - 14:30	1.00	TRP	1	DRLIN2	LD MM AND BIT - PICK UP SAME - CLEAN FLOOR FOR TRIP IN - FUNCTION BOP EQUIPMENT AS PER BLM REQUIREMENTS - SURFACE TEST MUD MOTOR
	14:30 - 15:00	0.50	TRP	2	DRLIN2	TRIP BHA IN TO HOLE
	15:00 - 16:00	1.00	RIG	1	DRLIN2	SERVICE RIG AND TOP DRIVE - CHANGE OUT TWO BAD 10" FLOW LINE VALVES
	16:00 - 17:00	1.00	TRP	2	DRLIN2	TRIP PIPE IN FILLING ON BHA AND EVERY THREE ROWS
	17:00 - 17:30	0.50	BOP	1	DRLIN2	INSTALL RT. HEAD
	17:30 - 18:00	0.50	TRP	2	DRLIN2	TRIP IN TO HOLE - SHIFT CHANGE
	18:00 - 18:30	0.50	TRP	2	DRLIN2	FINISH TRIP TO BOTTOM
	18:30 - 19:00	0.50	REAM	1	DRLIN2	SAFETY WASH LAST STAND DOWN - 3' OF FILL
	19:00 - 20:00	1.00	DRL	1	DRLIN2	SLOW PUMP RATES AND CONNECTION
5/28/2008	20:00 - 06:00	10.00	DRL	1	DRLIN2	DRILL FROM 8000 TO 8245 - HOLE SEEPING 3 BPH
	06:00 - 12:00	6.00	DRL	1	DRLIN2	DRILL FROM 8245 TO 8336
	12:00 - 13:00	1.00	RIG	1	DRLIN2	SERVICE RIG AND TOP DRIVE - PUMP THRU BUSTER AND CHOKE LINES TO FLUSH OUT
	13:00 - 13:30	0.50	BOP	1	DRLIN2	CHANGE OUT BAD RT. HEAD
5/29/2008	13:30 - 18:00	4.50	DRL	1	DRLIN2	DRILL FROM 8336 TO 8433 HELD SAFETY MEETING WITH BOTH CREWS ON PAYING ATTENTION - KEEPING TO JOB AT HAND
	18:00 - 05:00	11.00	DRL	1	DRLIN2	DRILL FROM 8433 TO 8630 - HOLE SEEPING 1 TO 2 BBLs PH - CONNECTION AND SLOW PUMP RATES FROM BOTH TOURS
	05:00 - 06:00	1.00	DRL	1	DRLIN2	DRILL FROM 8630 TO 8768
	06:00 - 16:00	10.00	DRL	1	DRLIN2	DRILL FROM 8630 TO 8768
	16:00 - 17:00	1.00	RIG	1	DRLIN2	SERVICE RIG AND TOP DRIVE
	17:00 - 17:30	0.50	DRL	1	DRLIN2	DRILL FROM 8768 TO 8772
	17:30 - 18:00	0.50	RIG	2	DRLIN2	SCR PROBLEMS - MOTORS FOR SCR'S KEEP KICKING OUT
	18:00 - 19:00	1.00	DRL	1	DRLIN2	SLOW PUMP RATES AND CONNECTION TIME
	19:00 - 06:00	11.00	DRL	1	DRLIN2	DRILL FROM 8772 TO 8960 - TAPPED IN TO MESA VERDE AT 8808 - BG AND CONN. HAS NOW PICKED UP
	5/30/2008	06:00 - 16:30	10.50	DRL	1	DRLIN2
16:30 - 17:30		1.00	RIG	1	DRLIN2	SERVICE RIG AND TOP DRIVE - SWITCH PUMP AND LET OIL AND BELTS WARM UP
17:30 - 18:00		0.50	DRL	1	DRLIN2	DRILL FROM 9137 TO 9145
18:00 - 20:00		2.00	DRL	1	DRLIN2	DRILL FROM 9145 TO 9200
20:00 - 21:00		1.00	DRL	1	DRLIN2	SLOW PUMP RATES AND CONNECTIONS
21:00 - 06:00		9.00	DRL	1	DRLIN2	DRILL FROM 9200 TO 9360 - WAITING UP FROM FRACTURES
5/31/2008	06:00 - 15:30	9.50	DRL	1	DRLIN2	DRILL FROM 9360 TO 9500
	15:30 - 16:00	0.50	SUR	1	DRLIN2	DROP SURVEY
	16:00 - 17:00	1.00	CIRC	1	DRLIN2	CIRCULATE BOTTOMS UP

Operations Summary Report

Legal Well Name: WV 13D-23-8-21
 Common Well Name: WV 13D-23-8-21
 Event Name: DRILLING
 Contractor Name: Unit Drilling Co.
 Rig Name: UNIT

Spud Date: 4/6/2008
 Start: 4/8/2008
 End:
 Rig Release:
 Group:
 Rig Number: 109

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
5/31/2008	17:00 - 18:00	1.00	TRP	10	DRLIN2	TRIP OUT FOR BIT - MUD MOTOR AND BHA INSPECTION
	18:00 - 19:00	1.00	TRP	10	DRLIN2	CREW CHANGE - TRIP OUT
	19:00 - 19:30	0.50	BOP	1	DRLIN2	PULL RT. HEAD
	19:30 - 21:00	1.50	TRP	10	DRLIN2	FINISH TRIP TO BHA
	21:00 - 01:00	4.00	ISP	1	DRLIN2	INSPECT BHA - ALL OK - 365 HOURS
	01:00 - 01:30	0.50	TRP	1	DRLIN2	CHANGE OUT JARS AND CORROSION RING
	01:30 - 02:00	0.50	TRP	1	DRLIN2	LD MM AND BIT
	02:00 - 02:30	0.50	OTH		DRLIN2	CLEAN FLOOR FROM TRIP INSPECTION
	02:30 - 03:30	1.00	TRP	1	DRLIN2	PICK UP MM AND BIT - SURFACE TEAT MUD MOTOR
	03:30 - 04:30	1.00	TRP	2	DRLIN2	TRIP BHA IN TO HOLE - CIRCULATE EVERY 3 STANDS HWDP TO MAKE SURE NO GEL PLUGS FROM INSPECTION
6/1/2008	04:30 - 06:00	1.50	TRP	2	DRLIN2	TRIP IN TO HOLE
	06:00 - 06:30	0.50	DRL	1	DRLIN2	CHANGE OUT AND INSTALL RT. HEAD
	06:30 - 07:30	1.00	RIG	6	DRLIN2	CUT AND SLIP DRILL LINE
	07:30 - 08:30	1.00	RIG	1	DRLIN2	SERVICE RIG AND TOP DRIVE
	08:30 - 11:00	2.50	TRP	2	DRLIN2	FINISH TRIP IN - WASH THRU TIGHT SPOT AT 7588
	11:00 - 12:30	1.50	CIRC	1	DRLIN2	CIRCULATE MUD, WELL TRYING TO PACK-OFF - CIRCULATE HOLE CLEAN WITH SWEEP AND CIRCULATE OUT GAS BEFORE MAKING CONNECTIONS
	12:30 - 18:00	5.50	DRL	1	DRLIN2	DRILL FROM 9500 TO 9625
	18:00 - 20:00	2.00	DRL	1	DRLIN2	DRILL FROM 9625 TO 9650
	20:00 - 21:00	1.00	DRL	1	DRLIN2	SLOW PUMP RATES AND CONNECTIONS FOR BOTH CREWS
	21:00 - 06:00	9.00	DRL	1	DRLIN2	DRILL FROM 9650 TO 9865 - HOLE LOSING 3 TO 4 BBLs PER HOUR - HOURLY SWEEPS DOING WELL - DRILL ON KEMO-SABE
6/2/2008	06:00 - 15:00	9.00	DRL	1	DRLIN2	DRILL FROM 9865 TO 10020
	15:00 - 16:00	1.00	RIG	1	DRLIN2	SERVICE RIG AND TOP DRIVE
	16:00 - 18:00	2.00	DRL	1	DRLIN2	DRILL FROM 10020 TO 10050
	18:00 - 20:30	2.50	DRL	1	DRLIN2	DRILL FROM 10050 TO 10080
	20:30 - 21:30	1.00	DRL	1	DRLIN2	SLOW PUMP RATES AND CONNECTIONS FOR BOTH TOUR'S
	21:30 - 03:30	6.00	DRL	1	DRLIN2	DRILL FROM 10080 TO 10179 - P-RATE WENT TO 49' ROP THEN HAD TORQUE SPIKE - LOST TORQUE AND 150 PSI
	03:30 - 04:00	0.50	OTH		DRLIN2	WORK PIPE IN HOLE TRYING TO GET TORQUE AND DIFF. BACK WITH NO LUCK
	04:00 - 05:00	1.00	CIRC	1	DRLIN2	PUMP SWEEP AND CIRCULATE AROUND WHILE BUILDING TRIP SLUG
	05:00 - 06:00	1.00	TRP	12	DRLIN2	TRIP OUT FOR POSSIBLE MOTOR OR BIT FAILURE
	6/3/2008	06:00 - 10:30	4.50	TRP	13	DRLIN2
10:30 - 13:30		3.00	WOT	4	DRLIN2	WAIT ON FISHING TOOLS - DRIVE SHAFT ON MUD MOTOR TWISTED OFF
13:30 - 14:30		1.00	RIG	1	DRLIN2	SERVICE RIG AND TOP DRIVE
14:30 - 15:30		1.00	FISH	5	DRLIN2	MAKE UP TOOLS
15:30 - 17:30		2.00	TRP	2	DRLIN2	TRIP TO SHOE
17:30 - 18:00		0.50	BOP	1	DRLIN2	INSTAL RT. HEAD
18:00 - 18:30		0.50	CIRC	1	DRLIN2	CIRCULATE TRIP SLUG OUT
18:30 - 20:30		2.00	TRP	2	DRLIN2	FINISH TRIP TO TOP OF FISH
20:30 - 22:00		1.50	CIRC	1	DRLIN2	CIRCULATE OUT GAS
22:00 - 23:00		1.00	FISH	5	DRLIN2	WORK OVER FISH - NO LUCK ON FIRST TWO TRIES - 3RD TRY GAINED GOOD PSI
6/4/2008	23:00 - 23:30	0.50	CIRC	1	DRLIN2	PUMP TRIP SLUG
	23:30 - 02:30	3.00	TRP	2	DRLIN2	TRIP OUT - NON RT. - LOW GEAR
	02:30 - 03:00	0.50	BOP	1	DRLIN2	PULL RT. HEAD
	03:00 - 06:00	3.00	TRP	2	DRLIN2	TRIP OUT - NON ROTATE - LOW LOW GEAR
	06:00 - 07:00	1.00	TRP	1	DRLIN2	LD FISH AND TOOLS

Operations Summary Report

Legal Well Name: WV 13D-23-8-21
 Common Well Name: WV 13D-23-8-21
 Event Name: DRILLING
 Contractor Name: Unit Drilling Co.
 Rig Name: UNIT

Start: 4/8/2008
 Rig Release:
 Rig Number: 109

Spud Date: 4/6/2008
 End:
 Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
6/4/2008	07:00 - 08:00	1.00	TRP	1	DRLIN2	CLEAN FLOOR WHILE PICKING NEW MUD MOTOR AND BIT - SURFACE TEST MOTOR
	08:00 - 10:30	2.50	TRP	2	DRLIN2	TRIP BHA AND DRILL PIPE TO SHOE FILLING EVERY 3 ROWS
	10:30 - 11:00	0.50	BOP	1	DRLIN2	INSTALL RT. HEAD
	11:00 - 11:30	0.50	CIRC	1	DRLIN2	CIRCULATE TRIP SLUG OUT AT SHOE
	11:30 - 13:30	2.00	TRP	2	DRLIN2	TRIP TO BOTTOM
	13:30 - 14:30	1.00	CIRC	1	DRLIN2	CIRCULATE WHILE WORKING TO BOTTOM - CLEAN BOTTOM WITH SWEEPS BEFORE TAGGING BOTTOM - SEEN NO JUNK ON BOTTOM
	14:30 - 17:00	2.50	DRL	1	DRLIN2	DRILL FROM 10179 TO 10214
	17:00 - 18:00	1.00	RIG	1	DRLIN2	SERVICE RIG AND TOP DRIVE
	18:00 - 23:30	5.50	DRL	1	DRLIN2	DRILL FROM 10214 TO 10309
	23:30 - 00:30	1.00	DRL	1	DRLIN2	SLOW PUMP RATES AND CONNECTIONS FOR BOTH CREWS
6/5/2008	00:30 - 06:00	5.50	DRL	1	DRLIN2	DRILL FROM 10309 TO 10380 - DRILLING FLARE = 30' - BG = 4500
	06:00 - 13:00	7.00	DRL	1	DRLIN2	DRILL FROM 10380 TO 10433
	13:00 - 14:00	1.00	RIG	1	DRLIN2	SERVICE RIG AND TOP DRIVE
	14:00 - 15:00	1.00	DRL	1	DRLIN2	SPR AND CONNECTIONS FORBOTH CREWS
	15:00 - 18:00	3.00	DRL	1	DRLIN2	DRILL FROM 10433 TO 10480
6/6/2008	18:00 - 06:00	12.00	DRL	1	DRLIN2	DRILL FROM 10480 TO 10640 - 10' DRILLING FLARE VENTING THRU BUSTER
	06:00 - 11:00	5.00	DRL	1	DRLIN2	DRILL FROM 10640 TO 10680
	11:00 - 12:00	1.00	RIG	1	DRLIN2	SERVICE RIG AND TOP DRIVE
	12:00 - 13:00	1.00	DRL	1	DRLIN2	SLOW PUMP RATES AND CONNECTIONS
	13:00 - 16:30	3.50	DRL	1	DRLIN2	DRILL FROM 10680 TO 10740
	16:30 - 18:00	1.50	CIRC	2	DRLIN2	LOSS PARTIAL RETURNS, BYPASS SHAKERS AND CIRCULATE AT SLOW PUMP RATE, PUMP 15% LCM SWEEPS, ADD 2% LCM TO ACTIVE SYSTEM - LOST 185 BBLs,
	18:00 - 19:00	1.00	CIRC	2	DRLIN2	KEEP PUMPING SWEEPS WHILE BRINGING PUMPS UP SLOWLY FOR DRILLING
	19:00 - 03:00	8.00	DRL	1	DRLIN2	DRILL FROM 10740 TO 10833
	03:00 - 03:30	0.50	RIG	2	DRLIN2	RIG BLACK-OUT
	03:30 - 06:00	2.50	DRL	1	DRLIN2	DRILL FROM 10833 TO 10865 - SHAKERS BYPASSED - 4% LCM IN SYSTEM - 8' DRILLING FLARE - 5 BBL LCM SWEEPS EVERY HOUR AND WELL HOLDING
6/7/2008	06:00 - 11:30	5.50	DRL	1	DRLIN2	DRILL FROM 10865 TO 10895
	11:30 - 12:30	1.00	RIG	1	DRLIN2	SERVICE RIG AND TOP DRIVE
	12:30 - 18:00	5.50	DRL	1	DRLIN2	DRILL FROM 10895 TO 10978
	18:00 - 23:30	5.50	DRL	1	DRLIN2	DRILL FROM 10978 TO 11041
	23:30 - 00:30	1.00	DRL	1	DRLIN2	SLOW PUMP RATES AND CONNECTIONS FOR BOTH TOURS
6/8/2008	00:30 - 06:00	5.50	DRL	1	DRLIN2	DRILL FROM 11041 TO 11120 - MUD WT. NOW 10.6, HOLE HOLDING, 5' DRILLING FLARE, 25' CONNECTION FLARE, 1" STREAM FLOWING ON CONNECTIONS
	06:00 - 09:00	3.00	DRL	1	DRLIN2	DRILL FROM 11120 TO 11172
	09:00 - 09:30	0.50	BOP	1	DRLIN2	CHANGE OUT RT. HEAD
	09:30 - 10:00	0.50	DRL	1	DRLIN2	SLOW PUMP RATES AND CONNECTIONS
	10:00 - 17:30	7.50	DRL	1	DRLIN2	DRILL FROM 11172 TO 11221
	17:30 - 18:00	0.50	CIRC	1	DRLIN2	CIRCULATE BOTTOMS UP WHILE MIXING TRIP SLUG
	18:00 - 18:30	0.50	SUR	1	DRLIN2	DROP SURVEY
	18:30 - 19:00	0.50	CIRC	1	DRLIN2	FINISH CIRC. BOTTOMS UP
	19:00 - 19:30	0.50	CIRC	1	DRLIN2	SPOT LCM ON BACK SIDE WHILE PUMPING TRIP SLUG
	19:30 - 22:30	3.00	TRP	10	DRLIN2	TRIP OUT FOR BIT AND MUD MOTOR - CLEAN POSSUM BELLYS AND CLEAN MAGNETS - DRAIN AND CLEAN SANDTRAP AND SHAKER TANK

Operations Summary Report

Legal Well Name: WV 13D-23-8-21
 Common Well Name: WV 13D-23-8-21
 Event Name: DRILLING
 Contractor Name: Unit Drilling Co.
 Rig Name: UNIT

Start: 4/8/2008
 Rig Release:
 Rig Number: 109

Spud Date: 4/6/2008
 End:
 Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
6/8/2008	22:30 - 23:00	0.50	BOP	1	DRLIN2	PULL RT. HEAD
	23:00 - 01:30	2.50	TRP	10	DRLIN2	FINISH TRIP OUT
	01:30 - 03:00	1.50	TRP	1	DRLIN2	DRAIN MUD MOTOR AND LD WITH BIT - PICK UP SAME AND SURFACE TEST MUD MOTOR
	03:00 - 04:00	1.00	TRP	1	DRLIN2	TRIP BHA IN AND CIRCULATE FOR TEN MINUTES
	04:00 - 05:30	1.50	TRP	2	DRLIN2	TRIP TO SHOE FILLING EVERY 3 ROWS - WILL CIRCULATE BOTTOMS UP AT SHOE AND THEN CUT AND SLIP LINE
	05:30 - 06:00	0.50	CIRC	1	DRLIN2	CIRCULATE BOTTOMS UP AT SHOE AND THEN CUT AND SLIP LINE - WE RAN A REED 811 BACK IN TO THE HOLE HOPEFULLY TO TD
6/9/2008	06:00 - 06:30	0.50	CIRC	1	DRLIN2	FINISH CIRCULATING TRIP SLUG OUT AT SHOE
	06:30 - 08:00	1.50	RIG	6	DRLIN2	CUT DRILL LINE
	08:00 - 11:30	3.50	TRP	2	DRLIN2	TRIP IN AND FILL - CIRCULATE EVERY THREE ROWS
	11:30 - 12:00	0.50	REAM	1	DRLIN2	SAFETY WASH AND REAM FROM 11136 TO 11221 - NO FILL OR TIGHT SPOTS
	12:00 - 16:00	4.00	DRL	1	DRLIN2	DRILL FROM 11221 TO 11298
	16:00 - 17:00	1.00	RIG	1	DRLIN2	SERVICE RIG AND TOP DRIVE
	17:00 - 18:00	1.00	DRL	1	DRLIN2	DRILL FROM 11298 TO 11330
	18:00 - 23:30	5.50	DRL	1	DRLIN2	DRILL FROM 11330 TO 11390
	23:30 - 00:30	1.00	DRL	1	DRLIN2	SPR AND CONNECTIONS FOR BOTH TOURS
	00:30 - 06:00	5.50	DRL	1	DRLIN2	DRILL FROM 11390 TO 11454
6/10/2008	06:00 - 14:30	8.50	DRL	1	DRLIN2	DRILL FROM 11454 TO 11544
	14:30 - 15:00	0.50	DRL	1	DRLIN2	SPR AND CONNECTIONS
	15:00 - 16:00	1.00	RIG	1	DRLIN2	SERVICE RIG AND TOP DRIVE
	16:00 - 18:00	2.00	DRL	1	DRLIN2	DRILL FROM 11554 TO 11575 - WELL SEEPING, WATER FLOW STOPPED - LCM SWEEPS EVERY .5 HOUR FOR TREATMENT
	18:00 - 21:00	3.00	DRL	1	DRLIN2	DRILL FROM 11575 TO 11636
	21:00 - 21:30	0.50	DRL	1	DRLIN2	SLOW PUMP RATES AND CONNECTIONS
	21:30 - 06:00	8.50	DRL	1	DRLIN2	DRILL FROM 11636 TO 11720 - HOLE NOW HOLDING PRETTY WELL - FIRST BLACK HAWK SAND ONLY PRODUCED 5800 UNITS, NEXT BH SAND AT 11745
	06:00 - 10:00	4.00	DRL	1	DRLIN2	DRILL FROM 11720 TO 11777 - HIGH TORQUE, PSI SPIKES - WOULD ONLY DRILL OFF WITH 25K ON BIT
6/11/2008	10:00 - 12:00	2.00	CIRC	1	DRLIN2	CIRCULATE BOTTOMS UP - SPOT ECD PILL WITH 15% LCM
	12:00 - 15:30	3.50	TRP	10	DRLIN2	TRIP OUT - PULLED SLOW AS WATER TRYING TO FLOW IN THEN CAME OUR WAY - HOLE VERY SMOOTH
	15:30 - 16:00	0.50	BOP	1	DRLIN2	PULL RT. HEAD
	16:00 - 18:00	2.00	TRP	10	DRLIN2	PUMP TRIP SLUG AND TRIP OUT
	18:00 - 19:00	1.00	TRP	10	DRLIN2	FINISH TRIP OUT
	19:00 - 19:30	0.50	OTH		DRLIN2	CLEAN FLOOR
	19:30 - 20:30	1.00	TRP	1	DRLIN2	DRAIN MM AND LD BIT AND MM - PICK UP SAME - SURFACE TEST MOTOR
	20:30 - 22:00	1.50	TRP	2	DRLIN2	TRIP IN FILLING EVERY 3 ROWS AND CIRC. FOR TEN MINUTES
	22:00 - 22:30	0.50	BOP	1	DRLIN2	INSTALL RT. HEAD
	22:30 - 02:30	4.00	TRP	2	DRLIN2	FINISH TRIP TO BOTTOM FILLING AND CIRC. EVERY THREE ROWS
	02:30 - 03:00	0.50	REAM	1	DRLIN2	SAFETY REAM TO BOTTOM - NO FILL
	03:00 - 04:30	1.50	DRL	1	DRLIN2	DRILL FROM 11777 TO 11812
	04:30 - 05:00	0.50	RIG	2	DRLIN2	POWER OUTAGE - GEN. KICKED OUT
	05:00 - 06:00	1.00	DRL	1	DRLIN2	DRILL FROM 11812 TO 11840 - HOLE DOING GOOD - BOTTOMS UP GOOD - 38 BBL GAIN BUT SMOOTH WITH 45' FLARE
6/12/2008	06:00 - 13:00	7.00	DRL	1	DRLIN2	DRILL F/ 11840-11980', WOB- 10-12K, RPM- 155 COMBINED, GPM- 445, MW- 10.9, VIS- 46, LCM- 4%, SHAKERS PARTIALLY

Operations Summary Report

Legal Well Name: WV 13D-23-8-21
 Common Well Name: WV 13D-23-8-21
 Event Name: DRILLING
 Contractor Name: Unit Drilling Co.
 Rig Name: UNIT

Spud Date: 4/6/2008
 Start: 4/8/2008
 End:
 Rig Release:
 Group:
 Rig Number: 109

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
6/12/2008	06:00 - 13:00	7.00	DRL	1	DRLIN2	BYPASSED, SEEPING 2 BBLs/HR, BG GAS- 2900u, CONN GAS- 4000u
	13:00 - 14:00	1.00	RIG	1	DRLIN2	LUBRICATE RIG & TOP DRIVE, FUNCTION ANNULAR & COM
	14:00 - 15:00	1.00	DRL	1	DRLIN2	DRILL F/ 11980'-12005', DRLG WITH SAME PARAMETERS, MW & VIS
	15:00 - 16:00	1.00	CIRC	1	DRLIN2	CIRC. OUT GAS (DRLG BREAK F/ 11953'-11985') TOTAL PIT GAIN 68 BBLs WITH 40' FLARE
	16:00 - 20:00	4.00	DRL	1	DRLIN2	DRILL F/ 12005'-12061', WOB- 8-12K, RPM- 150 COMBINED, GPM- 445, MW- 10.9, VIS- 47, LCM- 4%, STARTED LOSING RETURNS @ 12054', PUMPED 20 BBL LCM PILL WITH 15% LCM
	20:00 - 01:30	5.50	CIRC	2	DRLIN2	LOST TOTAL RETURNS @ 12061', BYPASSED SHAKERS & PUMPED 220 BBL LCM PILL WITH 15% LCM TO REGAIN RETURNS, BUILD VOLUME & CONDITION MUD
	01:30 - 04:30	3.00	DRL	1	DRLIN2	DRILL F/ 12061'-12104', WOB- 10K, RPM- 142 COMBINED, GPM- 385, MW- 10.9, VIS- 45, LCM- 8%, SEEPING 3 BBLs/HR, BG GAS- 2880u W/ 6' FLARE
6/13/2008	04:30 - 06:00	1.50	CIRC	1	DRLIN2	CIRC. BOTTOMS UP F/ SHORT TRIP
	06:00 - 06:30	0.50	CIRC	1	DRLIN2	FLOW CHECK & PUMP TRIP SLUG (WELL FLOWING 6 GAL./ MIN.)
	06:30 - 08:00	1.50	TRP	14	DRLIN2	SHORT TRIP OUT 20 STDS WITH NO PROBLEMS
	08:00 - 12:00	4.00	TRP	14	DRLIN2	TRIP IN & REAM OUT TIGHT HOLE F/ 11160'-11268'
	12:00 - 14:30	2.50	CIRC	1	DRLIN2	CIRC. & CONDITION MUD F/ LOGS, MW- 10.9, VIS- 46, LCM- 10%, NO LOSSES
	14:30 - 15:00	0.50	CIRC	1	DRLIN2	SPOT 120 BBL ECD PILL, MW- 12.5, VIS- 46, LCM- 15%
	15:00 - 16:30	1.50	TRP	2	DRLIN2	TRIP OUT 15 STDS WET
	16:30 - 17:00	0.50	CIRC	1	DRLIN2	PUMP TRIP SLUG
	17:00 - 22:00	5.00	TRP	2	DRLIN2	TRIP OUT F/ LOGS (HOLE FILL 8 BBLs OVER CALCULATED)
	22:00 - 22:30	0.50	TRP	1	DRLIN2	BREAK BIT & LAY DOWN MUD MOTOR, FUNCTIONED BLIND RAMS
	22:30 - 23:00	0.50	TRP	2	DRLIN2	CLEAR & CLEAN RIG FLOOR
23:00 - 00:00	1.00	LOG	1	EVAL 2	HOLD SAFETY MEETING & RIG UP HALLIBURTON LOGGING TOOLS	
6/14/2008	00:00 - 05:00	5.00	LOG	1	EVAL 2	RUN WIRELINE LOGS- TRIPLE COMBO, LOGGERS DEPTH- 12098'
	05:00 - 06:00	1.00	LOG	1	EVAL 2	RIG DOWN LOGGING TOOLS
	06:00 - 06:30	0.50	LOG	1	EVAL 2	RIG DOWN LOGGING TOOLS
	06:30 - 10:30	4.00	TRP	2	DRLIN2	MAKE UP BIT, BIT SUB & TRIP IN TO CSG SHOE, FILL PIPE & BREAK CIRC. EVERY 2000'
	10:30 - 11:00	0.50	TRP	2	DRLIN2	INSTALL ROT. HEAD RUBBER
	11:00 - 12:00	1.00	CIRC	1	DRLIN2	FILL PIPE & CIRC. BOTTOMS UP
	12:00 - 13:00	1.00	RIG	1	DRLIN2	CIRC., LUBRICATE RIG & TOP DRIVE
	13:00 - 14:00	1.00	RIG	6	DRLIN2	CUR DRLG LINE & RESET COM
	14:00 - 16:00	2.00	TRP	2	DRLIN2	TRIP IN, FILL PIPE & BREAK CIRC. EVERY 2000'
	16:00 - 18:00	2.00	CIRC	1	DRLIN2	FILL PIPE & CIRC OUT GAS @ 10250', MW- 10.9, VIS- 40, LCM- 12%, BG GAS- 1450u W/ 15' FLARE, BOTTOMS UP GAS- 3500u W/ 40' FLARE
	18:00 - 19:00	1.00	TRP	2	DRLIN2	FINISH TRIPPING IN
19:00 - 19:30	0.50	REAM	1	DRLIN2	WASH 60' TO BOTTOM WITH NO FILL	
19:30 - 22:00	2.50	CIRC	1	DRLIN2	CIRCULATE & CODITION MUD FOR CSG., MW- 10.9, VIS- 43, LCM- 10%, BG GAS- 2430u W/ 3' FLARE, NO LOSSES	
22:00 - 23:00	1.00	CIRC	1	DRLIN2	SPOT 180 BBL ECD PILL 1.8# OVER	
23:00 - 23:30	0.50	SUR	1	DRLIN2	DROP SURVEY & FLOW CHECK- NO FLOW	
23:30 - 00:30	1.00	TRP	2	DRLIN2	TRIP OUT 20 STDS	
00:30 - 01:00	0.50	CIRC	1	DRLIN2	PUMP TRIP SLUG & HOLD SAFETY MEETING WITH LAY DOWN CREW	
6/15/2008	01:00 - 06:00	5.00	TRP	3	DRLIN2	RIG UP LAY DOWN MACHINE & LAY DOWN DP
	06:00 - 13:00	7.00	TRP	3	DRLIN2	LAY DOWN DP & BHA

Operations Summary Report

Legal Well Name: WV 13D-23-8-21
 Common Well Name: WV 13D-23-8-21
 Event Name: DRILLING
 Contractor Name: Unit Drilling Co.
 Rig Name: UNIT

Start: 4/8/2008
 Rig Release: Group:
 Spud Date: 4/6/2008
 End: 4/8/2008
 Rig Number: 109

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
6/15/2008	13:00 - 13:30	0.50	TRP	3	DRLIN2	PULL WEAR BUSHING
	13:30 - 16:00	2.50	CSG	1	DRLIN2	HOLD SAFETY MEETING & RIG UP ROCKY MTN. CSG CREW
	16:00 - 22:00	6.00	CSG	2	DRLIN2	RUN 7" CSG, FILL PIPE & BREAK CIRC. EVERY 1500', NO LOSSES
	22:00 - 23:00	1.00	CIRC	1	DRLIN2	CIRC. BOTTOMS UP @ CSG SHOE
	23:00 - 03:30	4.50	CSG	2	DRLIN2	RUN 7" CSG, FILL PIPE & BREAK CIRC. EVERY 1500', NO LOSSES
	03:30 - 05:00	1.50	CIRC	1	DRLIN2	CIRC. OUT GAS THRU BOTH CHOKES @ 9490', MW- 10.9, VIS- 41, LCM- 9%, NO LOSSES, BG GAS- 2250 W/ 8' FLARE, BOTTOMS UP GAS- 3250u W/ 20' FLARE
6/16/2008	05:00 - 06:00	1.00	CSG	2	DRLIN2	RUN 7" CSG
	06:00 - 08:00	2.00	CSG	2	DRLIN2	RUN 7" CSG
	08:00 - 11:30	3.50	CIRC	1	DRLIN2	WASH DOWN 35' TO BOTTOM & CIRC OUT GAS, MW- 10.9, VIS- 41, NO LOSSES, BOTTOMS UP GAS- 5700u W/ 40' FLARE, BG GAS- 2680u W/ 8' FLARE, RIG DOWN ROCKY MTN. CSG CREW
	11:30 - 15:00	3.50	DEQ	4	DRLIN2	LAND CSG, LAY DOWN RUNNING TOOL, INSTALL PACK OFF & TEST TO 8500 PSI, MAKE UP & INSTALL CEMENT ISOLATION TOOL
	15:00 - 17:00	2.00	CMT	1	DRLIN2	RIG UP HALLIBURTON LINES & CIRC. BOTTOMS UP THRU "B" SECTION W/ RIG PUMP (LOST 80 BBLs)
	17:00 - 18:00	1.00	RIG	7	DRLIN2	HOLD SAFETY MEETING WITH HALLIBURTON CEMENTERS & TEST LINES TO 6000 PSI
6/17/2008	18:00 - 00:00	6.00	CMT	2	DRLIN2	CEMENT CSG (1ST LEAD- 550 SX FOAMED @ 9.5 PPG, 2ND LEAD- 1670 SX FOAMED @ 11 PPG, TAIL- 120 SX UNFOAMED @ 14.3 PPG, 200 SX CAP CEMENT @ 14.6), FULL RETURNS ENTIRE JOB, PLUG BUMPED, FOATS HELD & RECOVERED 225 BBLs CEMENT BACK TO SURFACE
	00:00 - 01:30	1.50	CMT	1	DRLIN2	RIG DOWN CEMENTERS
	01:30 - 03:30	2.00	LOC	7	DRLIN2	START CLEANING MUD TANKS, RIG DOWN 8.5" ROTARY TOOLS & PICK UP 6.25' TOOLS
	03:30 - 04:30	1.00	BOP	2	DRLIN2	HOLD SAFETY MEETING & RIG UP BOP TESTERS
	04:30 - 06:00	1.50	BOP	2	DRLIN2	PRESSURE TEST BOP (10M HI, 250 LOW)
	06:00 - 10:00	4.00	BOP	2	DRLPRO	PRESSURE TEST BOP- 10M HI, 250 LOW, ANNULAR- 5M, CSG- 2M
	10:00 - 17:00	7.00	LOC	7	DRLPRO	CLEAN MUD TANKS & GEL GATES, RIG UP SOLIDS CONTROL EQUIPMENT F/ OBM, BUILD UP DIKE ACROSS RESERVE PIT, FILL MUD TANKS WITH OBM, RACK & STRAP BHA & 4" DP
	17:00 - 18:00	1.00	BOP	2	DRLPRO	INSTALL WEAR BUSHING
	18:00 - 19:00	1.00	RIG	1	DRLPRO	LUBRICATE RIG & TOP DRIVE, RESET TORQUE ON TOP DRIVE
	19:00 - 20:00	1.00	RIG	7	DRLPRO	HOLD SAFETY MEETING WITH PICK UP CREW & RIG UP LAY DOWN MACHINE
6/18/2008	20:00 - 20:30	0.50	TRP	1	DRLPRO	PICK UP & SURFACE TEST MUD MOTOR
	20:30 - 06:00	9.50	TRP	1	DRLPRO	PICK UP 4 3/4" BHA & 4" DP, FILL PIPE AFTER BHA, THEN EVERY 3000'
	06:00 - 08:00	2.00	TRP	3	DRLPRO	PICK UP 4" DP
	08:00 - 08:30	0.50	CSG	1	DRLPRO	CIRC. & RIG DOWN LAY DOWN MACHINE
6/19/2008	08:30 - 09:30	1.00	RIG	1	DRLPRO	LUBRICATE RIG & TOP DRIVE, INSTALL ROT. HEAD ELEMENT
	09:30 - 10:30	1.00	REAM	1	DRLPRO	WASH DOWN TO TOP OF CEMENT @ 12030'
	10:30 - 13:00	2.50	DRL	4	DRLPRO	DRILL CEMENT, FLOAT EQUIPMENT & 6' OF NEW HOLE
	13:00 - 14:00	1.00	EQT	2	DRLPRO	CIRC. & FIT TO 16 PPG EQUIVILENT
	14:00 - 06:00	16.00	DRL	1	DRLPRO	DRILL F/ 12110'-12552' , WOB- 6/10K, RPM- 160 COMBINED, GPM- 225, MW- 13.7, VIS- 47, BG GAS- 220u, NO LOSSES
	06:00 - 15:30	9.50	DRL	1	DRLPRO	DRILL F/ 12552'-12874', WOB- 6/10K, RPM- 150-160 COMBINED, GPM- 225, MW- 13.7, VIS- 44, BG GAS- 300, CONN GAS- 800, NO LOSSES
	15:30 - 16:30	1.00	RIG	1	DRLPRO	LUBRICATE RIG & TOP DRIVE, FUNCTION HCR & COM
16:30 - 20:30	4.00	DRL	1	DRLPRO	DRILL F/ 12874'-13051', WOB- 6/8K, RPM- 150 COMBINED, GPM-	

Operations Summary Report

Legal Well Name: WV 13D-23-8-21
 Common Well Name: WV 13D-23-8-21
 Event Name: DRILLING
 Contractor Name: Unit Drilling Co.
 Rig Name: UNIT

Spud Date: 4/6/2008
 Start: 4/8/2008
 End:
 Rig Release:
 Group:
 Rig Number: 109

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
6/19/2008	16:30 - 20:30	4.00	DRL	1	DRLPRO	225, MW-13.6, VIS- 43, BG GAS- 450u, NO LOSSES
	20:30 - 04:00	7.50	WCL	1	DRLPRO	TOOK KICK @ 13051', SHUT IN WELL & CIRCULATE OUT GAS THRU CHOKE, SICP- 1500 PSI, SIDPP- 300 PSI, RAISED MW FROM 13.6-14.5, 5400u WITH 30-60' FLARES
	04:00 - 05:00	1.00	DRL	1	DRLPRO	DRILL F/ 13051'-13090', DRLG WITH SAME PARAMETERS, MW- 14.5, VIS- 45
6/20/2008	05:00 - 06:00	1.00	WCL	1	DRLPRO	CIRCULATE OUT GAS THRU CHOKE & RAISE MW TO 14.7
	06:00 - 16:30	10.50	CIRC	1	DRLPRO	CONDITION MUD & CIRCULATE OUT GAS, RAISE MW FROM 14.5-15.6
6/21/2008	16:30 - 06:00	13.50	DRL	1	DRLPRO	DRILL F/ 13090'-13320', WOB- 6/10K, RPM- 150 COMBINED, GPM- 225, MW- 15.6, VIS- 48, BG GAS- 4000u, W/ 5' FLARE, CONN GAS- 5600u W/ 40' FLARE, NO LOSSES
	06:00 - 15:30	9.50	DRL	1	DRLIN2	DRILL F/ 13320'-13647', WOB- 6/10K, RPM- 150 COMBINED, GPM- 214, MW- 15.5, VIS- 46, BG GAS- 2000u W/ 8' FLARE, CONN GAS- 3200u W/ 40' FLARE, NO LOSSES
	15:30 - 16:30 16:30 - 06:00	1.00 13.50	RIG DRL	1 1	DRLIN2 DRLIN2	LUBRICATE RIG & TOP DRIVE, FUNCTION HCR & COM DRILL F/ 13647'-14100', WOB- 6/10, RPM- 150 COMBINED, GPM- 214, MW- 15.5, VIS- 46, BG GAS- 1800u W/ 10' FLARE, CONN GAS- 3800u W/ 40' FLARE, NO LOSSES
6/22/2008	06:00 - 15:30	9.50	DRL	1	DRLPRO	DRILL F/ 14100'-14360', WOB- 6/10K, RPM- 150 COMBINED, GPM- 214, MW- 15.4, VIS- 46, BG GAS- 3200u W/ 10' FLARE, CONN GAS- 5850u W/ 40' FLARE, NO LOSSES
	15:30 - 16:30 16:30 - 06:00	1.00 13.50	RIG DRL	1 1	DRLPRO DRLPRO	LUBRICATE RIG & TOP DRIVE, FUNCTION TOP PIPE RAMS & COM DRILL F/ 14360'-14800', WOB- 6/10K, RPM- 150 COMBINED, GPM- 214, MW- 15.4+, VIS- 47, BG GAS- 2200u W/ 5' FLARE, CONN GAS- 5480u W/ 35' FLARE, NO LOSSES
	6/23/2008	06:00 - 11:30	5.50	DRL	1	DRLPRO
11:30 - 12:30		1.00	RIG	1	DRLPRO	LUBRICATE RIG & TOP DRIVE, FUNCTION LOWER PIPE RAMS & COM
12:30 - 16:00		3.50	DRL	1	DRLPRO	DRILL F/ 14951'-15035', DRLG WITH SAME PARAMETERS, MW & VIS, NO LOSSES
16:00 - 16:30 16:30 - 06:00		0.50 13.50	RIG DRL	2 1	DRLPRO DRLPRO	FREE UP ADJUSTMENT BOLTS F/ BRAKE BANDS & ADJUST BRAKES DRILL F/ 15035'-15327', WOB- 8/12K, RPM- 150 COMBINED, GPM- 204, MW- 15.5, VIS- 48, BG GAS- 3500 u W/ 5' FLARE, CONN GAS- 5200u W/ 35' FLARE, NO LOSSES
6/24/2008	06:00 - 07:00	1.00	DRL	1	DRLPRO	DRILL F/ 15327'-15382', WOB- 8/12K, RPM- 145 COMBINED, GPM- 204, MW- 15.5, VIS- 49, BG GAS- 3280u W/ 4' FLARE
	07:00 - 07:30	0.50	RIG	2	DRLPRO	REPLACE SWAB IN #1 PUMP (4" ISOLATION VALVE IS BAD ALSO, WILL BE REPLACED ON TRIP)
	07:30 - 13:30	6.00	DRL	1	DRLPRO	DRILL F/ 15382'-15522', DRLG WITH SAME PARAMETERS, MW & VIS, BG GAS- 3650u W/ 4' FLARE, CONN GAS- 4650u W/ 40' FLARE, NO LOSSES
	13:30 - 14:30 14:30 - 06:00	1.00 15.50	RIG DRL	1 1	DRLPRO DRLPRO	LUBRICATE RIG & TOP DRIVE, FUNCTION TOP PIPE RAMS & COM DRILL F/ 15522'-16000', WOB- 8/12K, RPM- 145 COMBINED, GPM- 204, MW- 15.5, VIS- 49, BG GAS- 3500u W/ 3' FLARE, CONN GAS- 4600u W/ 30' FLARE, NO LOSSES
6/25/2008	06:00 - 16:00	10.00	DRL	1	DRLPRO	DRILL F/ 16000'-16156', WOB- 8/12K, RPM- 140 COMBINED, GPM- 204, MW- 15.5, VIS- 47, BG GAS- 3400u W/ 5' FLARE, CONN GAS- 4500u W/ 35' FLARE, NO LOSSES
	16:00 - 17:00	1.00	RIG	1	DRLPRO	LUBRICATE RIG & TOP DRIVE, FUNCTION HCR & COM

Operations Summary Report

Legal Well Name: WV 13D-23-8-21
 Common Well Name: WV 13D-23-8-21
 Event Name: DRILLING
 Contractor Name: Unit Drilling Co.
 Rig Name: UNIT

Spud Date: 4/6/2008
 Start: 4/8/2008
 End:
 Rig Release:
 Group:
 Rig Number: 109

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations	
6/25/2008	17:00 - 19:30	2.50	CIRC	1	DRLPRO	CIRCULATE BOTTOMS UP & SPOT 180 BBL 2 LB OVER ECD PILL	
	19:30 - 00:30	5.00	TRP	10	DRLPRO	TRIP OUT WET F/ BIT & MUD MOTOR	
	00:30 - 01:30	1.00	TRP	10	DRLPRO	PULL ROT. HEAD ELEMENT, FLOW CHECK & PUMP TRIP SLUG	
	01:30 - 05:30	4.00	TRP	10	DRLPRO	TRIP OUT, HOLE FILL 12 BBLS OVER CALCULATED	
	05:30 - 06:00	0.50	TRP	1	DRLPRO	BREAK BIT, LAY DOWN MUD MOTOR, FUNCTIONED BLIND RAMS	
6/26/2008	06:00 - 07:00	1.00	TRP	10	DRLPRO	CLEAN RIG FLOOR AFTER TRIPPING OUT WET BHA	
	07:00 - 08:00	1.00	TRP	1	DRLPRO	LAY DOWN BICO MUD MOTOR, PICK UP HUNTING MUD MOTOR & SURFACE TEST MOTOR	
	08:00 - 13:00	5.00	TRP	10	DRLPRO	TRIP IN, FILL PIPE & BREAK CIRCULATION EVERY 3000'	
	13:00 - 13:30	0.50	TRP	10	DRLPRO	INSTALL ROT. HEAD ELEMENT @ 11950'	
	13:30 - 14:30	1.00	RIG	6	DRLPRO	CUT DRLG LINE & RESET COM	
	14:30 - 15:30	1.00	RIG	1	DRLPRO	LUBRICATE RIG & TOP DRIVE, FUNCTION HCR, REPLACED 4" ISOLATION VALVE FOR #1 PUMP	
	15:30 - 17:00	1.50	CIRC	1	DRLPRO	CIRCULATE OUT ECD PILL, CHANGE OIL IN TOP DRIVE MOTOR	
	17:00 - 18:00	1.00	TRP	10	DRLPRO	TRIP IN 22 STDS	
	18:00 - 19:00	1.00	CIRC	1	DRLPRO	CIRCULATE OUT BOTTOM END OF ECD PILL	
	19:00 - 20:00	1.00	TRP	10	DRLPRO	TRIP IN	
	20:00 - 21:30	1.50	REAM	1	DRLPRO	WASH 170' TO BOTTOM & CIRC OUT GAS- 45' BOTTOMS UP FLARE W/ 5765u	
	21:30 - 06:00	8.50	DRL	1	DRLPRO	DRILL F/ 16156'-16272', WOB- 6/8K, RPM- 88 COMBINED, GPM- 205, MW- 15.6, VIS- 48, BG GAS- 3500u W/ 3' FLARE, CONN GAS- 5000u W/ 35' FLARE, NO LOSSES	
	6/27/2008	06:00 - 12:00	6.00	DRL	1	DRLPRO	DRILL F/ 16272'-16330', WOB- 6/8K, RPM- 88 COMBINED, GPM- 205, MW- 15.5, VIS- 45, BG GAS- 4320u W/ 2' FLARE, CONN GAS- 4620 W/ 30' FLARE, NO LOSSES
		12:00 - 13:30	1.50	CIRC	1	DRLPRO	SPOT 80 BBL ECD PILL 1.5 PPG OVER
		13:30 - 15:30	2.00	TRP	10	DRLPRO	TRIP OUT 33 STDS TO 13100' (TIGHT HOLE FROM 15600'-15320')
15:30 - 17:30		2.00	CIRC	1	DRLPRO	CIRC. OUT BOTTOMS UP GAS- 35' FLARE W/ 4800u, SPOT 100 BBL 2 PPG OVER ECD PILL	
17:30 - 18:00		0.50	TRP	10	DRLPRO	TRIP OUT TO CSG SHOE	
18:00 - 18:30		0.50	TRP	10	DRLPRO	PULL ROT. HEAD ELEMENT, CHECK F/ FLOW	
18:30 - 23:30		5.00	TRP	10	DRLPRO	TRIP OUT F/ BIT & MUD MOTOR, HOLE FILL 14 BBLS OVER CALCULATED	
23:30 - 00:30		1.00	TRP	1	DRLPRO	BREAK BIT, LAY DOWN MUD MOTOR & NON MAG DC	
00:30 - 06:00		5.50	TRP	10	DRLPRO	MAKE UP BIT, BIT SUB & TRIP IN, CHANGED OUT JARS, FILL & BREAK CIRC. EVERY 2000'	
6/28/2008		06:00 - 07:30	1.50	TRP	10	DRLPRO	TRIP IN, FILL PIPE & BREAK CIRC. EVERY 2000'
	07:30 - 08:30	1.00	CIRC	1	DRLPRO	CIRC. OUT ECD PILL @ 11900', LUBRICATE RIG & TOP DRIVE	
	08:30 - 09:30	1.00	TRP	10	DRLPRO	TRIP IN	
	09:30 - 10:30	1.00	CIRC	1	DRLPRO	CIRC OUT ECD PILL @ 14177'	
	10:30 - 11:30	1.00	TRP	10	DRLPRO	TRIP IN	
	11:30 - 12:30	1.00	REAM	1	DRLPRO	WASH 105' TO BOTTOM, NO FILL	
	12:30 - 13:00	0.50	CIRC	1	DRLPRO	SHUT IN WELL & CIRC OUT GAS THRU CHOKE, 5300u W/ 50' FLARE	
	13:00 - 06:00	17.00	DRL	1	DRLPRO	DRILL F/ 16330'-16430', WOB- 8/10K, RPM- 60, GPM- 214, MW- 15.5, VIS- 47, BG GAS- 3580u, CONN GAS- 4630U W/ 30' FLARE, NO LOSSES	
6/29/2008	06:00 - 08:30	2.50	DRL	1	DRLPRO	DRILL F/ 16430'-16437', WOB- 10/12K, RPM- 60, GPM- 214, MW- 15.5, VIS- 46, BG GAS- 3520u, NO LOSSES	
	08:30 - 09:00	0.50	CIRC	1	DRLPRO	CIRC. & WAIT ON ORDERS	
	09:00 - 10:30	1.50	TRP	14	DRLPRO	SHORT TRIP 15 STDS	
	10:30 - 13:30	3.00	CIRC	1	DRLPRO	CIRC. OUT GAS & SPOT 80 BBL ECD PILL 1.5 PPG OVER	
	13:30 - 15:00	1.50	TRP	2	DRLPRO	TRIP OUT 34 STDS	

Operations Summary Report

Legal Well Name: WV 13D-23-8-21
 Common Well Name: WV 13D-23-8-21
 Event Name: DRILLING
 Contractor Name: Unit Drilling Co.
 Rig Name: UNIT

Start: 4/8/2008
 Rig Release:
 Rig Number: 109

Spud Date: 4/6/2008
 End:
 Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
6/29/2008	15:00 - 17:00	2.00	CIRC	1	DRLPRO	CIRC OUT GAS & SPOT 120 BBL ECD PILL 2 PPG OVER
	17:00 - 18:00	1.00	TRP	2	DRLPRO	TRIP OUT F/ LOGS
	18:00 - 18:30	0.50	TRP	2	DRLPRO	PULL ROT. HEAD ELEMENT & CHECK F/ FLOW
	18:30 - 23:00	4.50	TRP	2	DRLPRO	TRIP OUT F/ LOGS, HOLE FILL 10 BBLs OVER CALCULATED
	23:00 - 00:00	1.00	LOG	1	DRLPRO	HOLD SAFETY MEETING & RIG UP HALLIBURTON LOGGING TOOLS
	00:00 - 05:00	5.00	LOG	1	DRLPRO	RUN WIRELINE LOGS, 1ST RUN-SONIC/ RESISTIVITY (HAD SEVERAL TIGHT SPOTS F/ 15600'-13000', DID NOT RUN 2ND LOG), LOGGERS TD- 16437'
6/30/2008	05:00 - 06:00	1.00	LOG	1	DRLPRO	RIG DOWN LOGGING TOOLS
	06:00 - 06:30	0.50	LOG	1	EVALPR	RIG DOWN LOGGING TOOLS
	06:30 - 07:30	1.00	RIG	6	DRLPRO	CUT DRLG LINE & RESET COM
	07:30 - 08:30	1.00	RIG	1	DRLPRO	LUBRICATE RIG & TOP DRIVE, FUNCTION BLIND RAMS
	08:30 - 13:00	4.50	TRP	2	DRLPRO	MAKE UP BIT & TRIP IN, BREAK CIRC. EVERY 3000'
	13:00 - 13:30	0.50	TRP	2	DRLPRO	INSTALL ROT. HEAD ELEMENT
	13:30 - 14:30	1.00	CIRC	1	DRLPRO	CIRC. OUT ECD PILL @ 10015'
	14:30 - 15:30	1.00	TRP	2	DRLPRO	TRIP IN
	15:30 - 17:00	1.50	CIRC	1	DRLPRO	CIRC. OUT ECD PILL & GAS THRU CHOKE @ 13240', 5200u W/ 45' FLARE
	17:00 - 18:00	1.00	TRP	2	DRLPRO	TRIP IN
18:00 - 20:00	2.00	CIRC	1	DRLPRO	WASH 90' TO BOTTOM & CIRC OUT GAS THRU CHOKE, 5800u W/ 40' FLARE	
	20:00 - 01:00	5.00	DRL	1	DRLPRO	DRILL F/ 16437'-16454', WOB- 14/16K, RPM- 65, GPM- 204, MW- 15.5, VIS- 47, BG GAS- 1400u W/ 2' FLARE
	01:00 - 06:00	5.00	CIRC	2	DRLPRO	LOST PARTIAL RETURNS, CIRC., MIX & PUMP 15% LCM SWEEPS, GPM-150 MW- 15.5, VIS- 46, BYPASSED SHAKERS
7/1/2008	06:00 - 11:00	5.00	CIRC	2	DRLPRO	BUILD VOLUME, CIRC. & CONDITION MUD & RAISE LCM CONTENT TO 10%
	11:00 - 12:00	1.00	CIRC	2	DRLPRO	SPOT 25% LCM PILL ON BOTTOM
	12:00 - 13:30	1.50	TRP	14	DRLPRO	SHORT TRIP 15 STDS, HOLE FILL 1 BBL UNDER CALCULATED
	13:30 - 16:00	2.50	CIRC	1	DRLPRO	CIRC OUT BOTTOMS UP GAS & CIRC. & CONDITION MUD
	16:00 - 17:00	1.00	CIRC	1	DRLPRO	SPOT 80 BBL ECD PILL 1 PPG OVER
	17:00 - 19:00	2.00	TRP	2	DRLPRO	TRIP OUT 34 STDS
	19:00 - 20:00	1.00	CIRC	1	DRLPRO	CIRC OUT BOTTOMS UP GAS, HOLD SAFETY MEETING & RIG UP LAY DOWN MACHINE
	20:00 - 21:00	1.00	CIRC	1	DRLPRO	SPOT 120 BBL ECD PILL 2PPG OVER
	21:00 - 06:00	9.00	TRP	3	DRLPRO	LAY DOWN DP

CONFIDENTIAL

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Operations Summary Report

Legal Well Name: WV 13D-23-8-21
Common Well Name: WV 13D-23-8-21
Event Name: COMPLETION
Contractor Name:
Rig Name:

Start: 7/15/2008
Rig Release:
Rig Number:

Spud Date: 4/6/2008
End:
Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
7/15/2008	08:00 - 02:00	18.00	LOG	2	C-LOG	MIRU LONE WOLF ELU. MU AND RIH WITH CCL/GR/CBL/VDL LOGGING TOOLS AND TAG CORRELATED PBTD AT 16,404'. PRESSURE UP TO 4,000 PSI AND LOGGING TOOLS QUIT WORKING MULTIPLE TIMES. FINALLY THEY RUN OUT OF TOOLS AND TRUCKS. RDMO ELU. PLAN TO RUN CBL WHEN WE RUN THE NEUTRON POROSITY LOG WITH SLB.
7/16/2008	06:00 - 06:00	24.00	LOC	4	C-PRE	SETTING IPS FBE
7/17/2008	07:00 - 14:00	7.00	LOG	2	C-LOG	MIRU SLB ELU. MU RIH WITH CCL/GR/CBL/VDL LOGGING TOOLS AND LOG FROM CORRELATED PBTD (16,414') TO 2,000' WHILE HOLDING 1,000 PSI. CEMENT LOOKED GOOD. TOC AT SURFACE.
	15:00 - 21:00	6.00	LOG	2	C-LOG	MIRU SLB ELU. MU AND RIH WITH NEUTRON POROSITY LOGGING TOOLS. LOG FROM PBTD TO 11,900' WHILE HOLDING 1,000 PSI. RDMO ELU.
7/18/2008	08:00 - 12:00	4.00	WHD	2	C-PRE	NU 4 1/16" FRAC TREE, SCHOONER HCR AND STINGER FRAC HEAD. SET WORK STAND.
7/19/2008	06:00 - 06:00	24.00	WOT	4	C-PRE	WOCTDO
7/20/2008	06:00 - 15:00	9.00	LOC	4	C-PRE	RU IPS FBE AND SCHOONER FLOWCROSS. SPOT IPS CTU.
7/21/2008	06:00 - 08:30	2.50	DRL	5	C-DEEP	FINISH RU IPS CTU, GCDOE AND SPIRIT FLUIDS. LOAD CT WITH 70" WATER. TEST CSG TO 10,000 PSI & ANNULUS TO 3,000 PSI. BOTH TEST GOOD. MU QES 2 7/8" MOTOR/JARS WITH 3.55" 5-BLADE JUNK MILL. TEST STACK TO 8,000 PSI.
	08:30 - 21:30	13.00	DRL	5	C-DEEP	RIH TO TAG @ 16,431'. DRILL OUT FC & SHOE TO DEPTH OF 16,449' (FC & SHOE @ 16,442'). PUMP FINAL 10 BBLS SWEEP AND POOH. MU NEW MOTOR AND MILL. RE-TEST STACK TO 8,000 PSI. SDFN.
7/22/2008	06:00 - 18:00	12.00	DRL	6	C-DEEP	PRESSURE TEST STACK TO 8,000 PSI. OPEN WELL WITH 3,600 PSI. RIH AND TAG @ 16,437'. DRILL OUT OPEN HOLE TO 16,460' (CTM) FOR A TOTAL OF 39.5' FROM THE FLOAT SHOE. PUMP FINAL SWEEP AND POOH. RDMO CTU AND DRILL OUT EQUIPMENT.
	18:00 - 06:00	12.00	PTST	2	C-OTH	FLOW WELL THRU IPS FBE TO SALES.
8/4/2008	06:00 - 08:00	2.00	STIM	3	C-STIM	FRAC STAGE #1 WITH 1,358 BBLS 35# HYBOR-G CARRYING 22,586 LBS# 30/60 SINTERLITE SAND. AVG RATE= 43.8 BPM. AVG PSI= 10,374. SHOW DOWN EARLY DUE TO HES PUMP PROBLEMS. CONTINUE ON WITH STAGE #2.
	08:00 - 13:00	5.00	PERF	2	C-PERF	PERF STG #2 WITH 5- 1', 3- 2' "& 1- 3' GUN LOADED 3 SPF, 120* PHASE, 11 GRAM CHARGE. SET 3.44" CFP AT 16,400' WITH 7,000 PSI. SHOOT 42 HOLES FROM 15,631' TO 16,325'.
	13:00 - 15:00	2.00	STIM	3	C-STIM	FRAC STAGE #2 WITH 800 GAL. 15% HCL AT 10 BPM, 2,621 BBLS SLICKWATER CARRYING 50,152 LBS# 30/60 SINTERLITE SAND. AVG RATE= 36.9 BPM. AVG PSI= 9,989.
	15:00 - 18:00	3.00	OTH		C-OTH	FLOWED BACK 270 BBLS. PUMPED 100% CSG VOLUME AND CONTINUED WITH STAGE #3.
	18:00 - 21:00	3.00	PERF	2	C-PERF	PERF STG #3 WITH 4- 1' & 5- 2' GUN LOADED 3 SPF, 120* PHASE, 11 GRAM CHARGE. SET 3.44" CBP AT 15,550' WITH 8,000 PSI. SHOOT 42 HOLES FROM 14,882' TO 15,528'.
8/5/2008	07:00 - 08:15	1.25	STIM	3	C-STIM	FRAC STAGE #3 WITH 800 GAL. 15% HCL AT 10 BPM, 2,509 BBLS SLICKWATER CARRYING 35,857 LBS# 30/60 & 20/40 SINTERLITE SAND. AVG RATE= 34.4 BPM. AVG PSI= 10,218.
	08:15 - 11:00	2.75	PERF	2	C-PERF	PERF STG #4A WITH 10- 1', 2- 2' GUN LOADED 3 SPF, 120* PHASE, 11 GRAM CHARGE. SET 3.44" CBP AT 14,800' WITH 7,900 PSI. SHOOT 42 HOLES FROM 13,937' TO 14,779'.
	11:00 - 19:00	8.00	STIM	3	C-STIM	FRAC STAGE #4 WITH 800 GAL. 15% HCL AT 10 BPM, SCREENED

RECEIVED
SEP 04 2008

Operations Summary Report

Legal Well Name: WV 13D-23-8-21
 Common Well Name: WV 13D-23-8-21
 Event Name: COMPLETION
 Contractor Name:
 Rig Name:

Start: 7/15/2008
 Rig Release:
 Rig Number:
 Spud Date: 4/6/2008
 End:
 Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
8/5/2008	11:00 - 19:00	8.00	STIM	3	C-STIM	OUT AFTER ACID HIT PERFS. TRIED SURGING WELL WITH NO SUCCESS. FLOWED WELL BACK TO TANK. LOAD HOLE WITH SLICKWATER.
	19:00 - 21:30	2.50	PERF	2	C-PERF	RE-PERF STG #4B WITH 4- 4' GUN LOADED 3 SPF, 120* PHASE, 11 GRAM CHARGE 7,700 PSI. SHOOT 48 HOLES FROM 13,937' TO 14,592'.
8/6/2008	06:00 - 06:45	0.75	STIM	3	C-STIM	RE-PUMP STAGE #4 WITH 800 GAL. 15% HCL AT 10 BPM, 578 BBLS SLICKWATER CARRYING 1,213 LBS# 30/60 SINTERLITE SAND. AVG RATE= 27.3 BPM. AVG PSI= 11,030. SCREENED OUT WHEN 0.25 PPA SAND HIT PERFS. FLUSHED 100% OF CSG VOLUME.
	06:45 - 09:15	2.50	PERF	2	C-PERF	PERF STG #5 WITH 6- 1', 4- 2' GUN LOADED 3 SPF, 120* PHASE, 11 GRAM CHARGE. SET 3.44" CBP AT 13,844' WITH 7,800 PSI. SHOOT 42 HOLES FROM 13,053' TO 13,813'.
	09:15 - 11:00	1.75	STIM	3	C-STIM	FRAC STAGE #5 WITH 800 GAL. 15% HCL AT 10 BPM, 2,515 BBLS SLICKWATER CARRYING 23,333 LBS# 30/60 SINTERLITE SAND. AVG RATE= 32.6 BPM. AVG PSI= 9,624.
	11:00 - 13:50	2.83	PERF	2	C-PERF	PERF STG #6 WITH 6- 1', 4- 2' GUN LOADED 3 SPF, 120* PHASE, 11 GRAM CHARGE. SET 3.44" CFP AT 12,966' WITH 7,200 PSI. SHOOT 42 HOLES FROM 12,250' TO 12,944'.
	13:50 - 15:15	1.42	STIM	3	C-STIM	FRAC STAGE #6 WITH 800 GAL. 15% HCL AT 10 BPM, 2,532 BBLS SLICKWATER CARRYING 46,494 LBS# 30/60 & 20/40 SINTERLITE SAND. AVG RATE= 39.2 BPM. AVG PSI= 8,412.
	15:15 - 17:00	1.75	PERF	2	C-PERF	PERF STG #7 WITH 5- 2' GUN LOADED 3 SPF, 120* PHASE, 11 GRAM CHARGE. SET 3.44" CBP AT 11,864' WITH 5,500 PSI. SHOOT 30 HOLES FROM 11,685' TO 11,846'.
	17:00 - 18:15	1.25	STIM	3	C-STIM	FRAC STAGE #7 WITH 800 GAL. 15% HCL AT 10 BPM, 2,454 BBLS SLICKWATER CARRYING 41,735 LBS# 30/60 & 20/40 SINTERLITE SAND. AVG RATE= 43.4 BPM. AVG PSI= 7,000.
	18:15 - 20:30	2.25	PERF	2	C-PERF	PERF STG #8 WITH 12- 1' GUN LOADED 3 SPF, 120* PHASE, 11 GRAM CHARGE. SET 3.44" CFP AT 11,215' WITH ... PSI. SHOOT 36 HOLES FROM 10,906' TO 11,202'.
8/7/2008	06:00 - 07:15	1.25	STIM	3	C-STIM	FRAC STAGE #8 WITH 800 GAL. 15% HCL AT 10 BPM, 2,938 BBLS SLICKWATER CARRYING 70,194 LBS# 30/50 SB EXCEL SAND. AVG RATE= 49.7 BPM. AVG PSI= 7,020.
	07:15 - 09:00	1.75	PERF	2	C-PERF	PERF STG #9 WITH 11- 1' GUN LOADED 3 SPF, 120* PHASE, 11 GRAM CHARGE. SET 3.44" CBP AT 10,560' WITH 3,600 PSI. SHOOT 33 HOLES FROM 10,189' TO 10,545'.
	09:00 - 10:15	1.25	STIM	3	C-STIM	FRAC STAGE #9 WITH 800 GAL. 15% HCL AT 10 BPM, 2,931 BBLS SLICKWATER CARRYING 69,255 LBS# 30/50 SB EXCEL SAND. AVG RATE= 51.0 BPM. AVG PSI= 6,629.
	10:15 - 12:45	2.50	PERF	2	C-PERF	PERF STG #10 WITH 9- 1' GUN LOADED 3 SPF, 120* PHASE, 11 GRAM CHARGE. SET 3.44" CFP AT 9,860' WITH 4,000 PSI. SHOOT 27 HOLES FROM 8,831' TO 9,839'.
	12:45 - 14:00	1.25	STIM	3	C-STIM	FRAC STAGE #10 WITH 800 GAL. 15% HCL AT 10 BPM, 2,903 BBLS SLICKWATER CARRYING 69,364 LBS# 30/50 SB EXCEL SAND. AVG RATE= 49.0 BPM. AVG PSI= 5,655.
	14:00 - 15:30	1.50	PERF	2	C-PERF	PERF STG #11 WITH 4- 2' GUN LOADED 3 SPF, 120* PHASE, 11 GRAM CHARGE. SET 3.44" CFP AT 7,962' WITH 2,600 PSI. SHOOT 24 HOLES FROM 6,423' TO 7,943'.
	15:30 - 16:15	0.75	STIM	3	C-STIM	FRAC STAGE #11 WITH 800 GAL. 15% HCL AT 10 BPM, 762 BBLS DELTA-200 CARRYING 59,873 LBS# 30/50 SB EXCEL SAND. AVG RATE= 42.7 BPM. AVG PSI= 6,768.
	16:15 - 18:00	1.75	LOC	4	C-OTH	RDMO HES & OWP ELU. MIRU IPS FBE.

Operations Summary Report

Legal Well Name: WV 13D-23-8-21
 Common Well Name: WV 13D-23-8-21
 Event Name: COMPLETION
 Contractor Name:
 Rig Name:

Start: 7/15/2008
 Rig Release:
 Rig Number:

Spud Date: 4/6/2008
 End:
 Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
8/8/2008	06:00 - 22:00	16.00	DRL	6	C-OTH	MIRU IPS CTU, GCDOE, SPIRIT FLUIDS. MU QES 2 7/8" MOTOR/JARS AND 3.55" 5-BLADE JUNK MILL. TEST STACK TO 8,000 PSI. RIH AND DRILLOUT 10 PLUGS IN 9.5 HOURS TO THE OH DEPTH OF 16,460'. PUMP FINAL SWEEP AND POOH.
	22:00 - 06:00	8.00	PTST	2	C-OTH	FLOWING TO SALES THROUGH IPS FBE.
8/9/2008	06:00 - 06:00	24.00	PTST	2	C-OTH	FLOWING TO SALES THROUGH IPS FBE.
8/10/2008	06:00 - 06:00	24.00	PTST	2	C-OTH	FLOWING TO SALES THROUGH IPS FBE.
8/11/2008	06:00 - 06:00	24.00	PTST	2	C-OTH	FLOWING TO SALES THROUGH IPS FBE.
8/12/2008	06:00 - 06:00	24.00	PTST	2	C-OTH	FLOWING TO SALES THROUGH IPS FBE.
8/13/2008	06:00 - 06:00	24.00	PTST	2	C-OTH	RDMO IPS FBE. FLOWING TO SALES THROUGH PRODUCTION EQUIPMENT.

Operations Summary Report - DRILLING

43-047-391623

Well Name: WV 13D-23-8-21
 Location: 23- 8-S 21-E 26
 Rig Name: UNIT

Spud Date: 4/6/2008
 Rig Release: 7/4/2008
 Rig Number: 109

Date	From - To	Hours	Code	Sub Code	Description of Operations
4/9/2008	06:00 - 10:00	4.00	LOC	2	DRILL 30" HOLE 90' DEEP SET 20" PIPE AND CEMENTED. SPUD ON 04/06/08 AT 10:00 HRS.
	10:00 - 01:00	15.00	DRL	9	DRILL FROM 90' TO 560'. 22' OF RAT HOLE. BLOW DOWN HOLE AND LAY DOWN PIPE.
	01:00 - 03:00	2.00	CSG	2	RUN 12 JOINTS OF 13 3/8", J-55, 54.5#, STC AS FOLLOWS: SHOE AT 538', FLOAT COLLAR AT 492'. RAN 3 CENTRALIZERS ON BOTTOM 3 JOINTS AND ONE AT 134'.
4/28/2008	03:00 - 06:00	3.00	CMT	2	CEMENT SURFACE AS FOLLOWS:
	06:00 - 06:00	24.00	LOC	4	RIG DOWN BOILER LINES - FINISH RIGGING DOWN FLOOR - LOWER DERRICK - RIG DOWN 30% OF ELECTRICAL LINES - FINISH RIGGING DOWN MUD TANKS - RIG DOWN FRONT WINTERIZING TARP - LOAD OUT TOP DRIVE MOTOR UNIT AND DRIP PANS FOR REPAIRS ON NEW LOCATION - RIG DOWN AIR HOIST - RIG DOWN STAND PIPE TO PUMPS - TWO GUYS CLEANING SUBS ALL NIGHT
4/29/2008	06:00 - 18:00	12.00	LOC	4	RIG DOWN - SET RIG LINER ON NEW LOCATION -60% OF BACKEND MOVED OUT - BAR HOPPERS AND STANDS MOVED - BUSTER RIGGED DOWN - 80% FLARE LINES RIGGED DOWN - DERRICK SHOULD BE ON GROUND IN MORNING FOR HO OILER TO CLEAN DERRICK - WELDERS LINED UP TO WORK UN MUD TANKS IN MORNING - ODS DOG HOUSE LOWERED - WILL LIFT BOP STACK TOMORRO AND INSERT PACK OFF AND NIGHT CAP
4/30/2008	18:00 - 06:00	12.00	LOC	4	WAIT ON DAYLIGHTS
	06:00 - 18:00	12.00	LOC	4	2 1/3 MAT BOARDS MOVED OUT - DERRICK SET DOWN AND OFF TO SIDE FOR HOTOILER TO CLEAN OFF AS GOOD AS HE CAN - 18 LOADS HAULED OUT - DS TOP SUB LOWERED - BOP'S NIPPLED DOWN AND PACKOFF AND NIGHT CAP INSTALLED - MUD TANKS SET - CHOKE HOUSE SET - BOTH WINTERIZING BUILDINGS SET - 2 1/3 MATS SET - TOP DRIVE MOTOR ASSEMBLY 2 1/3 DONE - DETROIT MECHANIC SHOWING UP IN MORNING - OLD LOCATION BROKE DOWN WILL BE REPAIRED IN MORNING - NEW CRANE TO SHOW UON NEW LOCATION
5/1/2008	18:00 - 06:00	12.00	LOC	4	WAIT ON DAYLIGHTS
	06:00 - 18:00	12.00	LOC	4	RIG UP 30% COMPLETE- SET PARTS HOUSE, HOPPER HOUSE, SCR, MOTOR PACKAGE, DIESEL TANK, BAR HOPPERS. SET SUB MATS & BOTTOM SUBS, RIGGED UP MUD LINES & AIR LINES IN MOTOR SHEDS & PUMP SHEDS. MECHANIC IS STILL WORKING ON TOP DRIVE MOTOR. WELDERS ARE FABING CHUTE & CUTTINGS DISCHARGE LINE FOR SHALE SHAKERS. HOUSES, DERRICK & 4" DRILL STRING STILL ON OLD LOCATION. WILL START RIGGING DOWN & MOVING HOUSES FIRST THING IN THE MORNING. BLADE HAS STARTED CLEAN UP ON OLD LOCATION.
5/2/2008	18:00 - 06:00	12.00	LOC	4	WAIT ON DAYLIGHTS
	06:00 - 18:00	12.00	LOC	4	RIG UP 50% COMPLETE- NIPPLED UP BOP, SET TOP SUB SECTIONS & SPREADERS, CENTERED SUBS OVER HOLE & SET DRAWWORKS, RIGGED UP GRASSHOPPER, POWER CORDS TO MOTORS & PUMPS. SET STANDS FOR SOLIDS CONTROL EQUIPMENT. WELDERS FINISHED FABING CUTTINGS DISCHARGE LINE FOR SHALE SHAKERS. MECHANIC FINISHED REPAIRS TO TOP DRIVE MOTOR & UNITS MECHANIC INSTALLED NEW AIR CONTROL VALVE & RELAYS FOR EATON BRAKE. CLEANED OLD LOCATION , DERRICK & 4" DP STILL ON OLD LOCATION.
5/3/2008	18:00 - 06:00	12.00	LOC	4	WAIT ON DAYLIGHT
	06:00 - 18:00	12.00	LOC	4	RIG UP (70% COMPLETE)- SET SOLIDS CONTROL EQUIPMENT, SET GAS BUSTER & HOOK UP BUSTER LINES & FLOW LINE, HOOK UP MUD LINES IN SUB, TIGHTEN STACK, PIN DERRICK & BOARD & SET ON STAND. HAULED 4" DRILL STRING (2 LOADS OF 4" DP LEFT ON OLD LOCATION)
	18:00 - 06:00	12.00	LOC	4	WAIT ON DAYLIGHT

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Operations Summary Report

Well Name: WV 13D-23-8-21
 Location: 23- 8-S 21-E 26
 Rig Name: UNIT

Spud Date: 4/6/2008
 Rig Release: 7/4/2008
 Rig Number: 109

Date	From - To	Hours	Code	Sub Code	Description of Operations
5/4/2008	06:00 - 18:00	12.00	LOC	4	RIG UP (85% COMPLETE)- SET DOG HOUSE, PARTS HOUSE, BEAVER SLIDE & CATWALK, STRUNG BLOCKS, SET FLARE BOX, RIGGED UP & BURIED FLARE LINES, WELDERS COMPLETED GUN LINES FOR SHALE SHAKER POSSUM BELLIES & RE FABBED CHOKE LINES GOING TO BUSTER. FINISHED WITH TRUCKS & CRANE.
	18:00 - 06:00	12.00	LOC	1	WAIT ON DAYLIGHT
5/5/2008	06:00 - 18:00	12.00	LOC	4	RIG UP (90% COMPLETE)- PREPARE & INSPECT DERRICK, RAISE DERRICK (30 MIN. STRESS TEST), RIG UP FLOOR, LOWER CATWALK, PREPARE MUD TANKS FOR FILLING, FILL DAY TANKS, INSPECT TOP DRIVE & TORQUE TUBES, WELDER FINISHED FABBING COVERS FOR SHALE SHAKERS.
	18:00 - 06:00	12.00	LOC	4	WAIT ON DAYLIGHT
5/6/2008	06:00 - 08:00	2.00	LOC	4	SLIP 96" DRILL LINE ON TO DRUM - FINISH BRIDAL DOWN
	08:00 - 11:30	3.50	LOC	4	PICK UP SWIVEL AND CHANGE OIL AND PACKING
	11:30 - 13:30	2.00	LOC	4	START RIGGING UP TORQUE TUBES AFTER INSPECTION
	13:30 - 14:30	1.00	LOC	4	HELP WELDER ON NEW HOOK UP ON FLOW LINE TO NEW RT. HEAD
	14:30 - 17:00	2.50	LOC	4	WORK AT RIGGING UP TORQUE TUBE
	17:00 - 18:00	1.00	LOC	4	INSTALL NEW FLOW LINE SECTION TO RT. HEAD
	18:00 - 21:00	3.00	LOC	4	FINISH RIGGING UP RT. HEAD VALVE ASS., PUT NEW STUDS IN RT. HEAD, TORQUE UP FLOW LINE
	21:00 - 06:00	9.00	LOC	4	FINISH INSTALLING TORQUE TUBE, INSTALL T-BAR ASSEMBLY, CHANGE OUT 1" BLEED OFF LINE IN ACCUMALATOR - FINISH INSTALLING STANDPIPE SCREEN ASSEMBLY - STILL WAITING FOR NEW 37 PIN FOR TOP DRIVE, ALSO WAITING FOR TECH. FOR REPAIRING UPPER KELLY VALVE SWITCH - NEW FAN BLADE FOR TOP DRIVE MOTOR TO BE HERE THIS AM - CEMENT FOR CELLAR TO SHOW UP THIS MORNING
5/7/2008	06:00 - 12:00	6.00	LOC	4	BRING TOP DRIVE TO FLOOR - CANNOT SCREW INTO UNIT AS MOTOR NOT WORKING YET - HANG SERVICE LOOP
	12:00 - 13:00	1.00	LOC	4	SHOVEL CEMENT IN TO CELLAR
	13:00 - 18:00	5.00	LOC	4	DO GENERAL RIG UP - START FILLING MUD PITS - CHANGE OIL IN TOP DRIVE - RIG UP SERVICE LINES FOR DRIVE PANEL - THREE HANDS WORKING ON TOP DRIVE WHILE OTHERS DOING GENERAL RIG UP THAT COULD BE DONE WHILE TESTING
	18:00 - 23:00	5.00	LOC	4	FINISH GENERAL RIG UP WHILE WAITING ON TOP DRIVE MOTOR WILL NOT RUN - FUNCTION TESTED AGITATORS - TROBLE SHOOT BREAKERS - PUT SHAKER SCREENS ON - ADJUST RIG LINER ON DITCHES ECT. - PICKED UP XO AND LIFT SUBS TO FLOOR - HELP WEATHORFORD INSTALL NEW CLAMP ASSEMBLY RT. HEAD - CIRCULATE RESERVE PIT
	23:00 - 06:00	7.00	RIG	2	UNIT MECHANICS - TESCO AND DETROIT ON LOCATION TRYING TO GET MOTOR STARTED - MOTOR FIRED UP AT 0530 - TESTERS AND BLM ON CALL WAITING - OFFICE CAN DECIDE TOTAL DOWN TIME HOURS USING THIS TROUBLED TIME AS A MARKER OF INTEREST - TOOLPUSHER DOING GOOD JOB OF MANAGING TIME AND HANDS - I WILL SHOW TROUBLED TIME UNTIL TESTERS SHOW UP
5/8/2008	06:00 - 10:00	4.00	LOC	4	RIG UP TOP DRIVE & TORQUE CONNECTIONS, PICK UP BALES & ELEVATORS, HOOK UP EXTEND & LINK TILT CYLINDERS, HOOK UP KELLY HOSE. (WENT ON DAYWORK ON 5/7/08 @ 10AM)
	10:00 - 20:00	10.00	BOP	2	PRESSURE TEST BOP- 250 PSI LOW FOR 5 MIN., 5000 PSI HI FOR 10 MIN., ANNULAR- 250 PSI LOW FOR 5 MIN, 2500 PSI FOR 10 MIN., CSG- 1500 PSI FOR 30 MIN. ACCUMALATOR FUNCTION TEST OK. UPPER & LOWER IBOP VALVES DID NOT TEST. NEW IBOP TESTED OK
	20:00 - 21:30	1.50	RIG	2	REPLACE IBOP
	21:30 - 22:30	1.00	BOP	2	INSTALL WEAR BUSHING
	22:30 - 00:30	2.00	OTH		READJUST TORQUE TUBE TO CENTER TOP DRIVE OVER HOLE

Operations Summary Report

Well Name: WV 13D-23-8-21
 Location: 23- 8-S 21-E 26
 Rig Name: UNIT

Spud Date: 4/6/2008
 Rig Release: 7/4/2008
 Rig Number: 109

Date	From - To	Hours	Code	Sub Code	Description of Operations
5/8/2008	00:30 - 01:00	0.50	EQT	5	PRESSURE TEST MUD LINES TO 4000 PSI
	01:00 - 02:00	1.00	TRP	1	MAKE UP 12 1/4 BIT, PICK UP & SURFACE TEST MUD MOTOR
	02:00 - 06:00	4.00	TRP	1	PICK UP BHA & TRIP IN
5/9/2008	06:00 - 06:30	0.50	TRP	1	INSTALL ROT. HEAD
	06:30 - 07:30	1.00	RIG	2	REPAIR LEAK ON MUD LINE
	07:30 - 10:30	3.00	DRL	4	DRILL CEMENT & FLOAT EQUIPMENT & 10' OF NEW HOLE (TAGGED CEMENT @ 507')
	10:30 - 11:30	1.00	EQT	2	CIRCULATE & PERFORM FIT TO 10.5 EQUIVALENT
	11:30 - 12:30	1.00	RIG	2	UNIT MECHANIC INSPECTED & INSTALLED 3-WAY BRAKE CONTROL VALVE FOR EATON BRAKE.
	12:30 - 23:00	10.50	DRL	1	DRILL F/ 563'-1004', WOB- 8/12K, RPM- 135 COMBINED, GPM- 770, MW- 8.4, VIS- 28, PUMPING 10 BBL HI VIS SWEEPS EVERY 100' FOR HOLE CLEANING
	23:00 - 23:30	0.50	SUR	1	CIRCULATE & SURVEY @ 1004', SURVEY DEPTH- 935'- .4 INC, 103.8 AZ
	23:30 - 00:30	1.00	RIG	1	LUBRICATE RIG & TOP DRIVE, FUNCTION ANNULAR & COM, REPLACE 2" FILL UP LINE VALVE
	00:30 - 03:00	2.50	DRL	1	DRILL F/ 1004'-1126', DRLG WITH SAME PARAMETERS, MW & VIS, PUMPING HI VIS SWEEPS EVERY 100'
	03:00 - 04:00	1.00	TRP	1	PULL ROT. HEAD, PICK UP JARS & REINSTALL ROT. HEAD
04:00 - 06:00	2.00	DRL	1	DRILL F/ 1126'-1195', DRLG WITH SAME PARAMETERS, MW & VIS, PUMPING HI VIS SWEEPS EVERY 100', BG GAS- 10u, CONN GAS- 100u	
5/10/2008	06:00 - 11:30	5.50	DRL	1	DRILL F/ 1195'-1430', WOB- 8/12K, RPM- 135 COMBINED, GPM- 770, MW- 8.4, 28, PUMPING 10 BBL HI VIS SWEEPS EVERY 100' FOR HOLE CLEANING, RUNNING ALL SOLIDS CONTROL EQUIPMENT & MAKE UP WATER TO CONTROL MW & VIS, BG GAS- 10u, CONN GAS- 100u
	11:30 - 12:30	1.00	RIG	1	LUBRICATE RIG & TOP DRIVE, FUNCTION TOP PIPE RAMS & COM
	12:30 - 17:00	4.50	DRL	1	DRILL F/ 1430'-1646', DRLG WITH SAME PARAMETERS, MW & VIS
	17:00 - 18:00	1.00	RIG	2	REPLACE LEAKING BEARING ASSEMBLY ON ROT. HEAD
	18:00 - 04:30	10.50	DRL	1	DRILL F/ 1646'-2049', DRLG WITH SAME PARAMETERS, MW & VIS, PUMPING HI VIS SWEEPS EVERY 100'
	04:30 - 05:00	0.50	SUR	1	CIRC. & SURVEY @ 2049', SURVEY DEPTH- 1980', .5 DEG., 103.7 AZ
	05:00 - 06:00	1.00	DRL	1	DRILL F/ 2049'-2090', WOB- 10-12K, RPM- 135 COMBINED, GPM- 770, MW- 8.4, VIS- 30, BG GAS- 10u, CONN GAS- 100u
5/11/2008	06:00 - 14:00	8.00	DRL	1	DRILL F/ 2090'-2357', WOB- 12/18K, RPM- 135 COMBINED, GPM- 770, MW- 8.5, VIS- 28, PUMPING HI VIS SWEEPS EVERY 100' FOR HOLE CLEANING & RUNNING SOLIDS CONTROL EQUIPMENT & RESERVE PIT WATER TO CONTROL MW & VIS
	14:00 - 15:00	1.00	RIG	1	LUBRICATE RIG & TOP DRIVE, FUNCTION LOWER PIPE RAMS & COM
	15:00 - 19:00	4.00	DRL	1	DRILL F/ 2357'-2484', WOB- 18/22K, RPM- 135 COMBINED, GPM- 770, MW- 8.6, VIS- 28, PUMPING HI VIS SWEEPS FOR HOLE CLEANING, RUNNING SOLIDS CONTROL EQUIPMENT & RESERVE PIT WATER TO CONTROL MW & VIS
	19:00 - 20:30	1.50	RIG	2	CLEAN SUCTION VALVES ON BOTH PUMPS
	20:30 - 05:30	9.00	DRL	1	DRILL F/ 2484'-2640', DRLG WITH SAME PARAMETERS, MW & VIS
5/12/2008	05:30 - 06:00	0.50	SUR	1	DROP SURVEY & PUMP TRIP SLUG
	06:00 - 08:30	2.50	TRP	10	TRIP OUT F/ BIT #1 (HOLE FILL 15 BBL OVER CALCULATED)
	08:30 - 09:30	1.00	TRP	1	BREAK BIT, LAY DOWN MUD MOTOR & RETRIEVE SURVEY TOOL, FUNCTIONED BLIND RAMS
	09:30 - 10:30	1.00	TRP	1	PICK UP & SURFACE TEST NEW MUD MOTOR
	10:30 - 12:00	1.50	TRP	10	TRIP IN WITH BIT #2
	12:00 - 12:30	0.50	TRP	10	INSTALL ROT. HEAD
	12:30 - 13:00	0.50	TRP	10	FINISH TRIPPING IN
	13:00 - 13:30	0.50	REAM	1	WASH 65' TO BOTTOM WITH 3' OF FILL
	13:30 - 14:00	0.50	DRL	1	DRILL F/ 2640'-2665', WOB- 8/12K, RPM- 135 COMBINED, GPM- 770, MW- 8.5, VIS- 28

Operations Summary Report

Well Name: WV 13D-23-8-21
 Location: 23- 8-S 21-E 26
 Rig Name: UNIT

Spud Date: 4/6/2008
 Rig Release: 7/4/2008
 Rig Number: 109

Date	From - To	Hours	Code	Sub Code	Description of Operations
5/12/2008	14:00 - 15:00	1.00	RIG	1	LUBRICATE RIG & TOP DRIVE
	15:00 - 06:00	15.00	DRL	1	DRILL F/ 2665'-3035', WOB- 12/16K, RPM- 135 COMBINED, GPM- 770, MW- 8.5, VIS- 28, PUMPING HI VIS SWEEPS EVETY 100' & BIT BALLING SWEEPS AS NEEDED. RUNNING ALL SOLIDS CONTROL EQUIPMENT. HOLE SEEPING 4-5 BBLs/HR. BG GAS- 300u, CONN GAS- 850u
5/13/2008	06:00 - 17:00	11.00	DRL	1	DRILL F/ 3035'-3410', WOB- 12/16K, RPM- 135 COMBINED, GPM- 770, MW- 8.5, VIS- 29, PUMPING HI VIS SWEEPS EVERY 100' & BIT BALLING SWEEPS AS NEEDED, SEEPING 4-5 BBLs/HR, BG GAS- 800u, CONN GAS- 4100u
	17:00 - 18:00	1.00	RIG	1	LUBRICATE RIG & TOP DRIVE, FUNCTION HCR & COM
	18:00 - 21:00	3.00	DRL	1	DRILL F/ 3410'-3528', DRLG WITH SAME PARAMETERS, MW & VIS, PUMPING HI VIS SWEEPS EVERY 100' & BIT BALLING SWEEPS AS NEEDED, NO FLOW ON CONNECTIONS, BG GAS- 800u, CONN GAS- 5200u
	21:00 - 22:00	1.00	SUR	1	WIRELINE SURVEY @ 3463', 1.1 DEG, 141.5 AZ
5/14/2008	22:00 - 06:00	8.00	DRL	1	DRILL F/ 3528'-3719', WOB- 16K, RPM- 135 COMBINED, GPM- 770, MW- 8.5, VIS- 30, PUMPING HI VIS SWEEPS EVERY HR & BIT BALLING SWEEPS AS NEEDED, NO FLOW ON CONNECTIONS, SEEPING 4/5 BBLs/HR, BG GAS- 850u, CONN GAS- 6250u
	06:00 - 16:00	10.00	DRL	1	DRILL F/ 3719'-3942', WOB- 16/18K, RPM- 140 COMBINED, GPM- 820, MW- 8.6, VIS- 29, PUMPING HI VIS SWEEPS EVERY 100' & BIT BALLING SWEEPS AS NEEDED. BG GAS- 1700u, CONN GAS- 6100u
	16:00 - 16:30	0.50	RIG	2	REPLACE CENTER SWAB IN #2 PUMP
	16:30 - 19:30	3.00	DRL	1	DRILL F/ 3942'-4023', DRLG W/ SAME PARAMETERS, MW & VIS, PUMPING HI VIS SWEEPS EVERY 100' & BIT BALLING SWEEPS AS NEEDED
	19:30 - 20:30	1.00	RIG	1	LUBRICATE RIG & TOP DRIVE, FUNCTION ANNULAR & COM
5/15/2008	20:30 - 06:00	9.50	DRL	1	DRILL F/ 4023'-4252', WOB- 18K, RPM- 140 COMBINED, GPM- 820, MW- 8.6, VIS- 27, PUMPING HI VIS SWEEPS EVERY 100' & BIT BALLING SWEEPS AS NEEDED, BG GAS- 2060u, CONN GAS- 5475u
	06:00 - 10:30	4.50	DRL	1	DRILL F/ 4252'-4375', WOB- 18K, RPM- 140 COMBINED, GPM- 820, MW- 8.6, VIS- 27, BG GAS- 1400u, CONN GAS- 3200u, PUMPING HI VIS SWEEPS EVRY 100' & BIT BALLING SWEEPS AS NEEDED. RUNNING ALL SOLIDS CONTROL EQUIPMENT & RESERVE PIT WATER TO MAINTAIN VIS & MW.
	10:30 - 12:30	2.00	RIG	2	PUMP REPAIRS- REPLACE RING GASKET FOR PULSATION DAMPNER ON #1 PUMP
	12:30 - 17:00	4.50	DRL	1	DRILL F/ 4375'-4518', DRLG WITH SAME PARAMETERS, MW & VIS
	17:00 - 18:00	1.00	SUR	1	CIRC. & WIRELINE SURVEY @ 4454', 1.2 DEG, 151.9 AZ
	18:00 - 19:30	1.50	DRL	1	DRILL F/ 4518'-4579', DRLG WITH SAME PARAMETERS, MW & VIS
	19:30 - 20:30	1.00	RIG	1	LUBRICATE RIG & TOP DRIVE, FUNCTION TOP PIPE RAMS & COM
	20:30 - 05:00	8.50	DRL	1	DRILL F/ 4579'-4790', WOB- 18K, RPM- 140 COMBINED, GPM- 820, MW- 8.6, VIS- 28, BG GAS- 2250u, CONN GAS- 6630u, PUMPING HI VIS SWEEPS EVERY 100' & BIT BALLING SWEEPS AS NEEDED, SEEPING 5-6 BBLs/HR, RUNNING ALL SOLIDS CONTROL EQUIPMENT, WILL START MUD UP @ 4800'
5/16/2008	05:00 - 06:00	1.00	RIG	2	PUMP REPAIRS- REPLACE VALVE & SEAT IN #1 PUMP
	06:00 - 07:00	1.00	RIG	2	REPLACE ROT. HEAD BEARING ASSEMBLY (RETAINER BOLTS FOR ELEMENT FELL OUT)
	07:00 - 11:00	4.00	DRL	1	DRILL F/ 4790'-4858', WOB- 18K, RPM- 140 COMBINED, GPM- 820, MW- 8.8, VIS- 31, STARTED TO MUD UP @ 4800'
	11:00 - 11:30	0.50	CIRC	1	MIX TRIP SLUG & FILL TRIP TANK
	11:30 - 12:00	0.50	CIRC	1	FLOW CHECK & PUMP TRIP SLUG
	12:00 - 15:00	3.00	TRP	10	TRIP OUT F/ BIT #2 (HOLE FILL 14 BBLs OVER CALCULATED)
	15:00 - 16:00	1.00	TRP	1	BREAK BIT & LAY DOWN MUD MOTOR, FUNCTIONED BLIND RAMS
	16:00 - 17:00	1.00	TRP	1	PICK UP & SURFACE TEST NEW MUD MOTOR
	17:00 - 18:00	1.00	RIG	1	LUBRICATE RIG & TOP DRIVE
	18:00 - 19:30	1.50	TRP	10	TRIP IN, BREAK CIRC. EVERY 2000'

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Operations Summary Report

Well Name: WV 13D-23-8-21
 Location: 23- 8-S 21-E 26
 Rig Name: UNIT

Spud Date: 4/6/2008
 Rig Release: 7/4/2008
 Rig Number: 109

Date	From - To	Hours	Code	Sub Code	Description of Operations
5/16/2008	19:30 - 20:00	0.50	TRP	10	INSTALL ROT. HEAD
	20:00 - 21:30	1.50	TRP	10	TRIP IN
	21:30 - 22:00	0.50	REAM	1	WASH 60' TO BOTTOM, NO FILL
	22:00 - 02:30	4.50	DRL	1	DRILL F/ 4858'-4982', WOB- 18K, RPM- 140 COMBINED, GPM- 820, MW- 8.7, VIS- 31, BG GAS- 2950u, TRIP GAS- 3370u WITH 20' FLARE
5/16/2008	02:30 - 03:00	0.50	RIG	2	PUMP REPAIR- REPLACE VALVE & SEAT IN #1 PUMP
	03:00 - 06:00	3.00	DRL	1	DRILL F/ 4982'-5075', DRLG WITH SAME PARAMETERS, MW- 8.7, VIS- 34, BG GAS- 1650u, CONN GAS- 3390u WITH 3' FLARE, SEEPING 3 BBLS/HR
5/17/2008	06:00 - 12:00	6.00	DRL	1	DRILL F/ 5075'-5227', WOB- 18K, RPM- 140 COMBINED, GPM- 820, MW- 8.7, VIS- 32 (PICKED UP WATER FLOW @ 5100+-), BG GAS- 2500u, CONN GAS- 3600u
	12:00 - 12:30	0.50	CIRC	1	FLOW CHECK- WELL FLOWING 10-12 BBLS/HR
	12:30 - 13:30	1.00	CIRC	1	CIRCULATE BOTTOMS UP (SAMPLES SHOW 100% SHALE)
	13:30 - 15:30	2.00	TRP	14	PUMP TRIP SLUG & SHORT TRIP 15 STDS
	15:30 - 19:00	3.50	CIRC	1	CIRC. & CONDITION MUD F/ 9 5/8 CSG
	19:00 - 19:30	0.50	SUR	1	DROP SURVEY
	19:30 - 20:30	1.00	CIRC	1	SPOT 100 BBL ECD PILL & PUMP TRIP SLUG
	20:30 - 22:00	1.50	TRP	2	TRIP OUT TO RUN 9 5/8 CSG, SLM OUT
	22:00 - 22:30	0.50	TRP	2	PULL ROT. HEAD RUBBER
	22:30 - 00:00	1.50	TRP	2	TRIP OUT, SLM- 5225', HOLE FILL 18 BBLS OVER CALCULATED
	00:00 - 01:00	1.00	TRP	1	BREAK BIT & LAY DOWN 8" BHA
	01:00 - 02:00	1.00	TRP	2	DRAIN STACK & PULL WEAR BUSHING
	02:00 - 04:30	2.50	CSG	1	HOLD SAFETY MEETING & RIG UP ROCKY MTN. CSG CREW
	04:30 - 06:00	1.50	CSG	2	MAKE UP FLOAT EQUIPMENT & RUN 9 5/8 CSG
5/18/2008	06:00 - 11:00	5.00	CSG	2	RUN 9 5/8 CSG, FILL PIPE & BREAK CIRC. EVERY 1000'
	11:00 - 15:00	4.00	CIRC	1	CIRC. & WAIT ON ROCKY MTN. CSG TRUCK (BOTH TRUCKS BROKE DOWN-PTO & ELECTRICAL)
	15:00 - 19:00	4.00	CSG	2	FINISH RUNNING 9 5/8 CSG
	19:00 - 20:30	1.50	CIRC	1	LAND CSG & CIRC. OUT GAS USING FILL TOOL, RIG DOWN LAY DOWN MACHINE & CSG TONGS
	20:30 - 21:30	1.00	CSG	1	RIG DOWN FILL TOOL, BALES & ELEVATORS & MAKE UP CIRC. SWEDGE
	21:30 - 23:30	2.00	CIRC	1	CIRC. & CONDITION HOLE FOR CEMENT JOB
	23:30 - 03:30	4.00	CSG	7	LAY DOWN LANDING JT., INSTALL PACK OFF BUSHING, PACK P. SEALS TO 8500 PSI & TEST VOID TO 5000 PSI. INSTALL CEMENT ISOLATION TOOL & RUN IN LOCK DOWN PINS. HALLIBURTON RIGGED UP CEMENT LINES.
5/18/2008	03:30 - 05:00	1.50	CMT	1	HOLD SAFETY MEETING WITH HALLIBURTON CEMENTERS, RIG UP CEMENT HEAD & TEST CEMENT LINES TO 6000 PSI & NITROGEN LINES TO 8000 PSI
	05:00 - 06:00	1.00	CMT	2	BELLY LINE STARTED LEAKING ON PUMP TRUCK, CIRC WITH RIG PUMP & WAIT ON ANOTHER PUMP TRUCK
5/19/2008	06:00 - 08:00	2.00	CIRC	1	CIRC. WITH RIG PUMP & WAIT FOR ANOTHER PUMP TRUCK
	08:00 - 12:00	4.00	CMT	2	RIG UP PUMP TRUCK & CEMENT 9 5/8 CSG WITH 1435 SX FOAMED CEMENT, 230 SX UNFOAMED TAIL & 200 SX CAP CEMENT, FULL RETURNS ENTIRE JOB, PLUG BUMPED & FLOATS HELD. RECOVERED 120 BBLS FOAMED CEMENT TO SURFACE.
	12:00 - 14:00	2.00	CMT	1	RIG DOWN CEMENTERS
	14:00 - 15:00	1.00	CMT	1	LAY DOWN CEMENT ISOLATION TOOL
	15:00 - 21:00	6.00	BOP	2	RIG UP B&C QUICK TEST & PRESSURE TEST BOP, 10M HI, 250 LOW, ANNULAR- 5M, CSG- 1500
	21:00 - 22:00	1.00	BOP	2	INSTALL WEAR BUSHING
	22:00 - 23:00	1.00	TRP	1	PICK UP & SURFACE TEST MUD MOTOR
	23:00 - 02:00	3.00	TRP	2	MAKE UP BIT, PICK UP 2 MORE DC'S & TRIP IN, BREAK CIRC. EVERY 2000'
	02:00 - 03:00	1.00	RIG	1	LUBRICATE RIG & TOP DRIVE, CHANGE OUT SAVER SUB
	03:00 - 03:30	0.50	TRP	2	INSTALL ROT. HEAD ELEMENT
03:30 - 04:00	0.50	TRP	2	TRIP IN, TAG CEMENT @ 5117'	

Operations Summary Report

Well Name: WV 13D-23-8-21
 Location: 23- 8-S 21-E 26
 Rig Name: UNIT

Spud Date: 4/6/2008
 Rig Release: 7/4/2008
 Rig Number: 109

Date	From - To	Hours	Code	Sub Code	Description of Operations
5/19/2008	04:00 - 06:00	2.00	DRL	4	DRILL CEMENT & FLOAT EQUIPMENT
5/20/2008	06:00 - 08:00	2.00	DRL	1	DRILL F/ 5227'-5235', WOB- 10/18K, RPM- 118 COMBINED, GPM- 450, EXCESSIVE DRAG. PUMPED BIT BALLING SWEEPS & CHANGED WOB, RPM & GPM TO TRY IMPROVE ROP
	08:00 - 09:00	1.00	EQT	2	CIRC. & FIT TO 13.5 EQUIVALENT
	09:00 - 13:30	4.50	DRL	1	DRILL F/ 5235'-5268, UNABLE TO GET BIT TO DRILL, SUSPECT BIT WAS DAMAGED DRLG SHOE TRACK
	13:30 - 14:30	1.00	CIRC	1	MIX TRIP SLUG & FILL TRIP TANK
	14:30 - 17:30	3.00	TRP	10	PUMP TRIP SLUG & TRIP OUT F/ BIT #4, FUNCTIONED BLIND RAMS
	17:30 - 20:00	2.50	TRP	1	BREAK BIT, SURFACE TEST MUD MOTOR (MOTOR WEAK), LAY DOWN MUD MOTOR, PICK UP & SURFACE TEST NEW MUD MOTOR (OK)
	20:00 - 21:00	1.00	RIG	1	LUBRICATE RIG & TOP DRIVE
	21:00 - 23:30	2.50	TRP	10	TRIP IN, BREAK CIRC. EVERY 2000'
	23:30 - 00:00	0.50	TRP	10	INSTALL ROT. HEAD ELEMENT
	00:00 - 00:30	0.50	REAM	1	WASH 30 TO BOTTOM, NO FILL
	00:30 - 06:00	5.50	DRL	1	DRILL F/ 5268'-5415', WOB- 8/12K, RPM- 120 COMBINED, GPM- 450-480, BG GAS- 50u, CONN GAS- 200u
5/21/2008	06:00 - 14:00	8.00	DRL	1	DRILL F/ 5415'-5557', WOB- 8/12K, RPM- 125 COMBINED, GPM- 490, MW- 8.9, VIS- 35, PUMPING BIT BALLING SWEEPS AS NEEDED, BG GAS- 20u, CONN GAS- 120u, SEEPING 2-3 BBLS/HR
	14:00 - 15:00	1.00	RIG	1	LUBRICATE RIG & TOP DRIVE, FUNCTION TOP PIPE RAMS & COM
	15:00 - 04:00	13.00	DRL	1	DRILL F/ 5557'-5698', WOB- 12/20K, RPM- 125 COMBINED, GPM- 490, MW- 8.9, VIS- 35, PUMPING BIT BIT BALLING SWEEPS AS NEEDED. TRIED CHANGING DRLG PARAMETERS TO IMPROVE ROP WITH NO SUCCESS.
	04:00 - 04:30	0.50	CIRC	1	MIX TRIP SLUG & FILL TRIP TANK
	04:30 - 05:00	0.50	SUR	1	DROP SURVEY & PUMP TRIP SLUG
	05:00 - 05:30	0.50	TRP	10	TRIP OUT 10 STDS
	05:30 - 06:00	0.50	TRP	10	PULL ROT. HEAD ELEMENT
5/22/2008	06:00 - 08:30	2.50	TRP	10	TRIP OUT F/ BIT #5, HOLE FILL 23 BBLS OVER CALCULATED
	08:30 - 09:00	0.50	RIG	2	REPAIR BREAK OUT CABLE
	09:00 - 09:30	0.50	TRP	1	BREAK BIT & RETRIEVE SURV. TOOL, FUNCTIONED BLIND RAMS
	09:30 - 10:00	0.50	TRP	1	SURFACE TEST MUD MOTOR (OK)
	10:00 - 13:00	3.00	TRP	10	TRIP IN, BREAK CIRC. EVERY 2000'
	13:00 - 13:30	0.50	TRP	10	INSTALL ROT. HEAD ELEMENT
	13:30 - 14:30	1.00	RIG	6	CUT & SLIP 160' DRLG LINE, RESET COM
	14:30 - 15:00	0.50	RIG	1	LUBRICATE RIG & TOP DRIVE
	15:00 - 15:30	0.50	TRP	10	TRIP IN
	15:30 - 16:00	0.50	REAM	1	WASH 115' TO BOTTOM, 3' OF FILL
	16:00 - 06:00	14.00	DRL	1	DRILL F/ 5698'-6044', WOB- 8/12K, RPM- 115 COMBINED, GPM- 470, MW- 8.9, VIS- 40, SLIGHT BIT BALLING, PUMPING SWEEPS AS NEEDED, SEEPING 2-3 BBLS/HR
5/23/2008	06:00 - 15:30	9.50	DRL	1	DRILL FROM 6044 TO 6262
	15:30 - 16:30	1.00	RIG	1	SERVICE RIG AND TOP DRIVE
	16:30 - 18:00	1.50	DRL	1	DRILL FROM 6262 TO 6341 - HEAVY BIT BALLING STARTED AT 6280 - SWEEPING HOLE EVERY HALF HOUR WITH 5 BBL SWEEPS
	18:00 - 19:00	1.00	DRL	1	ONE HOUR SHOWING TIME FOR CONNECTIONS AND SLOW PUMP RATES
	19:00 - 06:00	11.00	DRL	1	DRILL FROM 6341 TO 6650 - CONNECTION GAS NOW UP TO 825 UNITS - CUTTINGS STILL LOOK GOOD FOR 8.9 MUD WT. RUNNING BIT BALLING SWEEPS EVERY HOUR NOW
5/24/2008	06:00 - 15:30	9.50	DRL	1	DRILL FROM 6650 TO 6883
	15:30 - 16:30	1.00	RIG	1	SERVICE RIG AND TOP DRIVE
	16:30 - 18:00	1.50	DRL	1	DRILL FROM 6883 TO 6940
	18:00 - 19:00	1.00	DRL	1	SLOW PUMP RATES AND CONNECTIONS = 1 HOUR

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Operations Summary Report

Well Name: WV 13D-23-8-21
 Location: 23- 8-S 21-E 26
 Rig Name: UNIT

Spud Date: 4/6/2008
 Rig Release: 7/4/2008
 Rig Number: 109

Date	From - To	Hours	Code	Sub Code	Description of Operations
5/24/2008	19:00 - 06:00	11.00	DRL	1	DRILL FROM 6940 TO 7215 - HOLE SEEPING 3 BBLS PH - STILL NEEDING BIT BALLING SWEEPS EVERY HALF HOUR - 5 BBLS- 10 BBLS ON THE HOUR
5/25/2008	06:00 - 08:00	2.00	DRL	1	DRILL FROM 7215 TO 7256
	08:00 - 09:00	1.00	OTH		CHECK BOTH PUMPS OUT- ALL VALVES AND STAND PIPE SCREEN - MADE CONNECTION AND INCREASED 425 PSI OFF BOTTOM - COULD NOT FIND ANYTHING - WENT BACK TO DRILLING
	09:00 - 16:30	7.50	DRL	1	DRILL FROM 7256 TO 7380 - PSI DROPPED BACK TO NORMAL AFTER 45 MIN. OFF DRILLING
	16:30 - 17:30	1.00	RIG	1	SERVICE RIG AND TOP DRIVE
	17:30 - 18:00	0.50	DRL	1	DRILL FROM 7380 TO 7418
	18:00 - 21:30	3.50	DRL	1	DRILL FROM 7418 TO 7467
	21:30 - 22:00	0.50	RIG	2	ELECTRIC FUEL PUMP FOR MAIN FUEL LINE PRESSURE FAILED
5/26/2008	22:00 - 06:00	8.00	DRL	1	DRILL FROM 7467 TO 7622
	06:00 - 13:30	7.50	DRL	1	DRILL FROM 7620 TO 7753
	13:30 - 14:30	1.00	RIG	1	SERVICE RIG AND TOP DRIVE
	14:30 - 18:00	3.50	DRL	1	DRILL FROM 7753 TO 7815
	18:00 - 18:30	0.50	DRL	1	SLOW PUMP RATES AND CONNECTIONS
5/27/2008	18:30 - 06:00	11.50	DRL	1	DRILL FROM 7815 TO 7980 - NO SWEEPS IN LAST 20 HOURS - HOLE SEEPING 2 BBLS PH - LITHOLIGY = 50% SHALE - 50% SS - WILL BE TRIPPING THIS AM
	06:00 - 08:00	2.00	DRL	1	DRILL FROM 7980 TO 8000 - PICKING UP CHATTER ON FLOOR - ALSO PICKING UP SMALL TORQUE INCREASES
	08:00 - 08:30	0.50	CIRC	1	CIRCULATE BOTTOMS UP FOR SURVEY
	08:30 - 09:00	0.50	SUR	1	DROP SURVEY - 1.4 - 158.6 - SURVEY DEPTH = 7933
	09:00 - 09:30	0.50	CIRC	1	CIRCULATE BOTTOMS UP AFTER SURVEY
	09:30 - 10:30	1.00	TRP	10	TRIP OUT FOR BIT
	10:30 - 11:00	0.50	BOP	1	PULL RT. HEAD
	11:00 - 13:30	2.50	TRP	10	FINISH TRIP OUT
	13:30 - 14:30	1.00	TRP	1	LD MM AND BIT - PICK UP SAME - CLEAN FLOOR FOR TRIP IN - FUNCTION BOP EQUIPMENT AS PER BLM REQUIREMENTS - SURFACE TEST MUD MOTOR
	14:30 - 15:00	0.50	TRP	2	TRIP BHA IN TO HOLE
	15:00 - 16:00	1.00	RIG	1	SERVICE RIG AND TOP DRIVE - CHANGE OUT TWO BAD 10" FLOW LINE VALVES
	16:00 - 17:00	1.00	TRP	2	TRIP PIPE IN FILLING ON BHA AND EVERY THREE ROWS
	17:00 - 17:30	0.50	BOP	1	INSTALL RT. HEAD
	17:30 - 18:00	0.50	TRP	2	TRIP IN TO HOLE - SHIFT CHANGE
	18:00 - 18:30	0.50	TRP	2	FINISH TRIP TO BOTTOM
	18:30 - 19:00	0.50	REAM	1	SAFETY WASH LAST STAND DOWN - 3' OF FILL
	19:00 - 20:00	1.00	DRL	1	SLOW PUMP RATES AND CONNECTION
5/28/2008	20:00 - 06:00	10.00	DRL	1	DRILL FROM 8000 TO 8245 - HOLE SEEPING 3 BPH
	06:00 - 12:00	6.00	DRL	1	DRILL FROM 8245 TO 8336
	12:00 - 13:00	1.00	RIG	1	SERVICE RIG AND TOP DRIVE - PUMP THRU BUSTER AND CHOKE LINES TO FLUSH OUT
	13:00 - 13:30	0.50	BOP	1	CHANGE OUT BAD RT. HEAD
5/29/2008	13:30 - 18:00	4.50	DRL	1	DRILL FROM 8336 TO 8433 HELD SAFETY MEETING WITH BOTH CREWS ON PAYING ATTENTION - KEEPING TO JOB AT HAND
	18:00 - 05:00	11.00	DRL	1	DRILL FROM 8433 TO 8630 - HOLE SEEPING 1 TO 2 BBLS PH - CONNECTION AND SLOW PUMP RATES FROM BOTH TOURS
	05:00 - 06:00	1.00	DRL	1	DRILL FROM 8630 TO 8768
	06:00 - 16:00	10.00	DRL	1	DRILL FROM 8630 TO 8768
	16:00 - 17:00	1.00	RIG	1	SERVICE RIG AND TOP DRIVE
	17:00 - 17:30	0.50	DRL	1	DRILL FROM 8768 TO 8772
	17:30 - 18:00	0.50	RIG	2	SCR PROBLEMS - MOTORS FOR SCR'S KEEP KICKING OUT
	18:00 - 19:00	1.00	DRL	1	SLOW PUMP RATES AND CONNECTION TIME

Operations Summary Report

Well Name: WV 13D-23-8-21
 Location: 23- 8-S 21-E 26
 Rig Name: UNIT

Spud Date: 4/6/2008
 Rig Release: 7/4/2008
 Rig Number: 109

Date	From - To	Hours	Code	Sub Code	Description of Operations
5/29/2008	19:00 - 06:00	11.00	DRL	1	DRILL FROM 8772 TO 8960 - TAPPED IN TO MESA VERDE AT 8808 - BG AND CONN. HAS NOW PICKED UP
5/30/2008	06:00 - 16:30	10.50	DRL	1	DRILL FROM 8960 TO 9137
	16:30 - 17:30	1.00	RIG	1	SERVICE RIG AND TOP DRIVE - SWITCH PUMP AND LET OIL AND BELTS WARM UP
	17:30 - 18:00	0.50	DRL	1	DRILL FROM 9137 TO 9145
	18:00 - 20:00	2.00	DRL	1	DRILL FROM 9145 TO 9200
	20:00 - 21:00	1.00	DRL	1	SLOW PUMP RATES AND CONNECTIONS
5/31/2008	21:00 - 06:00	9.00	DRL	1	DRILL FROM 9200 TO 9360 - WAITING UP FROM FRACTURES
	06:00 - 15:30	9.50	DRL	1	DRILL FROM 9360 TO 9500
	15:30 - 16:00	0.50	SUR	1	DROP SURVEY
	16:00 - 17:00	1.00	CIRC	1	CIRCULATE BOTTOMS UP
	17:00 - 18:00	1.00	TRP	10	TRIP OUT FOR BIT - MUD MOTOR AND BHA INSPECTION
	18:00 - 19:00	1.00	TRP	10	CREW CHANGE - TRIP OUT
	19:00 - 19:30	0.50	BOP	1	PULL RT. HEAD
	19:30 - 21:00	1.50	TRP	10	FINISH TRIP TO BHA
	21:00 - 01:00	4.00	ISP	1	INSPECT BHA - ALL OK - 365 HOURS
	01:00 - 01:30	0.50	TRP	1	CHANGE OUT JARS AND CORROSION RING
	01:30 - 02:00	0.50	TRP	1	LD MM AND BIT
	02:00 - 02:30	0.50	OTH		CLEAN FLOOR FROM TRIP INSPECTION
	02:30 - 03:30	1.00	TRP	1	PICK UP MM AND BIT - SURFACE TEAT MUD MOTOR
	03:30 - 04:30	1.00	TRP	2	TRIP BHA IN TO HOLE - CIRCULATE EVERY 3 STANDS HWDP TO MAKE SURE NO GEL PLUGS FROM INSPECTION
	6/1/2008	04:30 - 06:00	1.50	TRP	2
06:00 - 06:30		0.50	DRL	1	CHANGE OUT AND INSTALL RT. HEAD
06:30 - 07:30		1.00	RIG	6	CUT AND SLIP DRILL LINE
07:30 - 08:30		1.00	RIG	1	SERVICE RIG AND TOP DRIVE
08:30 - 11:00		2.50	TRP	2	FINISH TRIP IN - WASH THRU TIGHT SPOT AT 7588
11:00 - 12:30		1.50	CIRC	1	CIRCULATE MUD, WELL TRYING TO PACK-OFF - CIRCULATE HOLE CLEAN WITH SWEEP AND CIRCULATE OUT GAS BEFORE MAKING CONNECTIONS
12:30 - 18:00		5.50	DRL	1	DRILL FROM 9500 TO 9625
18:00 - 20:00		2.00	DRL	1	DRILL FROM 9625 TO 9650
20:00 - 21:00		1.00	DRL	1	SLOW PUMP RATES AND CONNECTIONS FOR BOTH CREWS
21:00 - 06:00		9.00	DRL	1	DRILL FROM 9650 TO 9865 - HOLE LOSING 3 TO 4 BBLS PER HOUR - HOURLY SWEEPS DOING WELL - DRILL ON KEMO-SABE
6/2/2008	06:00 - 15:00	9.00	DRL	1	DRILL FROM 9865 TO 10020
	15:00 - 16:00	1.00	RIG	1	SERVICE RIG AND TOP DRIVE
	16:00 - 18:00	2.00	DRL	1	DRILL FROM 10020 TO 10050
	18:00 - 20:30	2.50	DRL	1	DRILL FROM 10050 TO 10080
	20:30 - 21:30	1.00	DRL	1	SLOW PUMP RATES AND CONNECTIONS FOR BOTH TOUR'S
	21:30 - 03:30	6.00	DRL	1	DRILL FROM 10080 TO 10179 - P-RATE WENT TO 49' ROP THEN HAD TORQUE SPIKE - LOST TORQUE AND 150 PSI
	03:30 - 04:00	0.50	OTH		WORK PIPE IN HOLE TRYING TO GET TORQUE AND DIFF. BACK WITH NO LUCK
6/3/2008	04:00 - 05:00	1.00	CIRC	1	PUMP SWEEP AND CIRCULATE AROUND WHILE BUILDING TRIP SLUG
	05:00 - 06:00	1.00	TRP	12	TRIP OUT FOR POSSIBLE MOTOR OR BIT FAILURE
	06:00 - 10:30	4.50	TRP	13	TRIP OUT
	10:30 - 13:30	3.00	WOT	4	WAIT ON FISHING TOOLS - DRIVE SHAFT ON MUD MOTOR TWISTED OFF
	13:30 - 14:30	1.00	RIG	1	SERVICE RIG AND TOP DRIVE
	14:30 - 15:30	1.00	FISH	5	MAKE UP TOOLS
	15:30 - 17:30	2.00	TRP	2	TRIP TO SHOE
	17:30 - 18:00	0.50	BOP	1	INSTAL RT. HEAD
18:00 - 18:30	0.50	CIRC	1	CIRCULATE TRIP SLUG OUT	

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Operations Summary Report

Well Name: WV 13D-23-8-21
 Location: 23- 8-S 21-E 26
 Rig Name: UNIT

Spud Date: 4/6/2008
 Rig Release: 7/4/2008
 Rig Number: 109

Date	From - To	Hours	Code	Sub Code	Description of Operations
6/3/2008	18:30 - 20:30	2.00	TRP	2	FINISH TRIP TO TOP OF FISH
	20:30 - 22:00	1.50	CIRC	1	CIRCULATE OUT GAS
	22:00 - 23:00	1.00	FISH	5	WORK OVER FISH - NO LUCK ON FIRST TWO TRIES - 3RD TRY GAINED GOOD PSI
	23:00 - 23:30	0.50	CIRC	1	PUMP TRIP SLUG
	23:30 - 02:30	3.00	TRP	2	TRIP OUT - NON RT. - LOW GEAR
	02:30 - 03:00	0.50	BOP	1	PULL RT. HEAD
6/4/2008	03:00 - 06:00	3.00	TRP	2	TRIP OUT - NON ROTATE - LOW LOW GEAR
	06:00 - 07:00	1.00	TRP	1	LD FISH AND TOOLS
	07:00 - 08:00	1.00	TRP	1	CLEAN FLOOR WHILE PICKING NEW MUD MOTOR AND BIT - SURFACE TEST MOTOR
	08:00 - 10:30	2.50	TRP	2	TRIP BHA AND DRILL PIPE TO SHOE FILLING EVERY 3 ROWS
	10:30 - 11:00	0.50	BOP	1	INSTALL RT. HEAD
	11:00 - 11:30	0.50	CIRC	1	CIRCULATE TRIP SLUG OUT AT SHOE
	11:30 - 13:30	2.00	TRP	2	TRIP TO BOTTOM
	13:30 - 14:30	1.00	CIRC	1	CIRCULATE WHILE WORKING TO BOTTOM - CLEAN BOTTOM WITH SWEEPS BEFORE TAGGING BOTTOM - SEEN NO JUNK ON BOTTOM
	14:30 - 17:00	2.50	DRL	1	DRILL FROM 10179 TO 10214
	17:00 - 18:00	1.00	RIG	1	SERVICE RIG AND TOP DRIVE
6/5/2008	18:00 - 23:30	5.50	DRL	1	DRILL FROM 10214 TO 10309
	23:30 - 00:30	1.00	DRL	1	SLOW PUMP RATES AND CONNECTIONS FOR BOTH CREWS
	00:30 - 06:00	5.50	DRL	1	DRILL FROM 10309 TO 10380 - DRILLING FLARE = 30' - BG = 4500
	06:00 - 13:00	7.00	DRL	1	DRILL FROM 10380 TO 10433
	13:00 - 14:00	1.00	RIG	1	SERVICE RIG AND TOP DRIVE
	14:00 - 15:00	1.00	DRL	1	SPR AND CONNECTIONS FORBOTH CREWS
	15:00 - 18:00	3.00	DRL	1	DRILL FROM 10433 TO 10480
	18:00 - 06:00	12.00	DRL	1	DRILL FROM 10480 TO 10640 - 10' DRILLING FLARE VENTING THRU BUSTER
	06:00 - 11:00	5.00	DRL	1	DRILL FROM 10640 TO 10680
	11:00 - 12:00	1.00	RIG	1	SERVICE RIG AND TOP DRIVE
6/6/2008	12:00 - 13:00	1.00	DRL	1	SLOW PUMP RATES AND CONNECTIONS
	13:00 - 16:30	3.50	DRL	1	DRILL FROM 10680 TO 10740
	16:30 - 18:00	1.50	CIRC	2	LOSS PARTIAL RETURNS, BYPASS SHAKERS AND CIRCULATE AT SLOW PUMP RATE, PUMP 15% LCM SWEEPS, ADD 2% LCM TO ACTIVE SYSTEM - LOST 185 BBLs,
	18:00 - 19:00	1.00	CIRC	2	KEEP PUMPING SWEEPS WHILE BRINGING PUMPS UP SLOWLY FOR DRILLING
	19:00 - 03:00	8.00	DRL	1	DRILL FROM 10740 TO 10833
	03:00 - 03:30	0.50	RIG	2	RIG BLACK-OUT
	03:30 - 06:00	2.50	DRL	1	DRILL FROM 10833 TO 10865 - SHAKERS BYPASSED - 4% LCM IN SYSTEM - 8' DRILLING FLARE - 5 BBL LCM SWEEPS EVERY HOUR AND WELL HOLDING
6/7/2008	06:00 - 11:30	5.50	DRL	1	DRILL FROM 10865 TO 10895
	11:30 - 12:30	1.00	RIG	1	SERVICE RIG AND TOP DRIVE
	12:30 - 18:00	5.50	DRL	1	DRILL FROM 10895 TO 10978
	18:00 - 23:30	5.50	DRL	1	DRILL FROM 10978 TO 11041
	23:30 - 00:30	1.00	DRL	1	SLOW PUMP RATES AND CONNECTIONS FOR BOTH TOURS
	00:30 - 06:00	5.50	DRL	1	DRILL FROM 11041 TO 11120 - MUD WT. NOW 10.6, HOLE HOLDING, 5' DRILLING FLARE, 25' CONNECTION FLARE, 1" STREAM FLOWING ON CONNECTIONS
6/8/2008	06:00 - 09:00	3.00	DRL	1	DRILL FROM 11120 TO 11172
	09:00 - 09:30	0.50	BOP	1	CHANGE OUT RT. HEAD
	09:30 - 10:00	0.50	DRL	1	SLOW PUMP RATES AND CONNECTIONS
	10:00 - 17:30	7.50	DRL	1	DRILL FROM 11172 TO 11221
	17:30 - 18:00	0.50	CIRC	1	CIRCULATE BOTTOMS UP WHILE MIXING TRIP SLUG

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Operations Summary Report

Well Name: WV 13D-23-8-21
 Location: 23- 8-S 21-E 26
 Rig Name: UNIT

Spud Date: 4/6/2008
 Rig Release: 7/4/2008
 Rig Number: 109

Date	From - To	Hours	Code	Sub Code	Description of Operations
6/8/2008	18:00 - 18:30	0.50	SUR	1	DROP SURVEY
	18:30 - 19:00	0.50	CIRC	1	FINISH CIRC. BOTTOMS UP
	19:00 - 19:30	0.50	CIRC	1	SPOT LCM ON BACK SIDE WHILE PUMPING TRIP SLUG
	19:30 - 22:30	3.00	TRP	10	TRIP OUT FOR BIT AND MUD MOTOR - CLEAN POSSUM BELLYS AND CLEAN MAGNETS - DRAIN AND CLEAN SANDTRAP AND SHAKER TANK
	22:30 - 23:00	0.50	BOP	1	PULL RT. HEAD
	23:00 - 01:30	2.50	TRP	10	FINISH TRIP OUT
	01:30 - 03:00	1.50	TRP	1	DRAIN MUD MOTOR AND LD WITH BIT - PICK UP SAME AND SURFACE TEST MUD MOTOR
	03:00 - 04:00	1.00	TRP	1	TRIP BHA IN AND CIRCULATE FOR TEN MINUTES
	04:00 - 05:30	1.50	TRP	2	TRIP TO SHOE FILLING EVERY 3 ROWS - WILL CIRCULATE BOTTOMS UP AT SHOE AND THEN CUT AND SLIP LINE
	05:30 - 06:00	0.50	CIRC	1	CIRCULATE BOTTOMS UP AT SHOE AND THEN CUT AND SLIP LINE - WE RAN A REED 811 BACK IN TO THE HOLE HOPEFULLY TO TD
6/9/2008	06:00 - 06:30	0.50	CIRC	1	FINISH CIRCULATING TRIP SLUG OUT AT SHOE
	06:30 - 08:00	1.50	RIG	6	CUT DRILL LINE
	08:00 - 11:30	3.50	TRP	2	TRIP IN AND FILL - CIRCULATE EVERY THREE ROWS
	11:30 - 12:00	0.50	REAM	1	SAFETY WASH AND REAM FROM 11136 TO 11221 - NO FILL OR TIGHT SPOTS
	12:00 - 16:00	4.00	DRL	1	DRILL FROM 11221 TO 11298
	16:00 - 17:00	1.00	RIG	1	SERVICE RIG AND TOP DRIVE
	17:00 - 18:00	1.00	DRL	1	DRILL FROM 11298 TO 11330
	18:00 - 23:30	5.50	DRL	1	DRILL FROM 11330 TO 11390
	23:30 - 00:30	1.00	DRL	1	SPR AND CONNECTIONS FOR BOTH TOURS
	00:30 - 06:00	5.50	DRL	1	DRILL FROM 11390 TO 11454
6/10/2008	06:00 - 14:30	8.50	DRL	1	DRILL FROM 11454 TO 11544
	14:30 - 15:00	0.50	DRL	1	SPR AND CONNECTIONS
	15:00 - 16:00	1.00	RIG	1	SERVICE RIG AND TOP DRIVE
	16:00 - 18:00	2.00	DRL	1	DRILL FROM 11554 TO 11575 - WELL SEEPING, WATER FLOW STOPPED - LCM SWEEPS EVERY .5 HOUR FOR TREATMENT
	18:00 - 21:00	3.00	DRL	1	DRILL FROM 11575 TO 11636
	21:00 - 21:30	0.50	DRL	1	SLOW PUMP RATES AND CONNECTIONS
6/11/2008	21:30 - 06:00	8.50	DRL	1	DRILL FROM 11636 TO 11720 - HOLE NOW HOLDING PRETTY WELL - FIRST BLACK HAWK SAND ONLY PRODUCED 5800 UNITS, NEXT BH SAND AT 11745
	06:00 - 10:00	4.00	DRL	1	DRILL FROM 11720 TO 11777 - HIGH TORQUE, PSI SPIKES - WOULD ONLY DRILL OFF WITH 25K ON BIT
	10:00 - 12:00	2.00	CIRC	1	CIRCULATE BOTTOMS UP - SPOT ECD PILL WITH 15% LCM
	12:00 - 15:30	3.50	TRP	10	TRIP OUT - PULLED SLOW AS WATER TRYING TO FLOW IN THEN CAME OUR WAY - HOLE VERY SMOOTH
	15:30 - 16:00	0.50	BOP	1	PULL RT. HEAD
	16:00 - 18:00	2.00	TRP	10	PUMP TRIP SLUG AND TRIP OUT
	18:00 - 19:00	1.00	TRP	10	FINISH TRIP OUT
	19:00 - 19:30	0.50	OTH		CLEAN FLOOR
	19:30 - 20:30	1.00	TRP	1	DRAIN MM AND LD BIT AND MM - PICK UP SAME - SURFACE TEST MOTOR
	20:30 - 22:00	1.50	TRP	2	TRIP IN FILLING EVERY 3 ROWS AND CIRC. FOR TEN MINUTES
	22:00 - 22:30	0.50	BOP	1	INSTALL RT. HEAD
	22:30 - 02:30	4.00	TRP	2	FINISH TRIP TO BOTTOM FILLING AND CIRC. EVERY THREE ROWS
	02:30 - 03:00	0.50	REAM	1	SAFETY REAM TO BOTTOM - NO FILL
	03:00 - 04:30	1.50	DRL	1	DRILL FROM 11777 TO 11812
	04:30 - 05:00	0.50	RIG	2	POWER OUTAGE - GEN. KICKED OUT
05:00 - 06:00	1.00	DRL	1	DRILL FROM 11812 TO 11840 - HOLE DOING GOOD - BOTTOMS UP GOOD - 38 BBL GAIN BUT SMOOTH WITH 45' FLARE	
6/12/2008	06:00 - 13:00	7.00	DRL	1	DRILL F/ 11840'-11980', WOB- 10-12K, RPM- 155 COMBINED, GPM- 445, MW- 10.9, VIS- 46, LCM- 4%, SHAKERS PARTIALLY BYPASSED, SEEPING 2

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Operations Summary Report

Well Name: WV 13D-23-8-21
 Location: 23- 8-S 21-E 26
 Rig Name: UNIT

Spud Date: 4/6/2008
 Rig Release: 7/4/2008
 Rig Number: 109

Date	From - To	Hours	Code	Sub Code	Description of Operations
6/12/2008	06:00 - 13:00	7.00	DRL	1	BBLs/HR, BG GAS- 2900u, CONN GAS- 4000u
	13:00 - 14:00	1.00	RIG	1	LUBRICATE RIG & TOP DRIVE, FUNCTION ANNULAR & COM
	14:00 - 15:00	1.00	DRL	1	DRILL F/ 11980'-12005', DRLG WITH SAME PARAMETERS, MW & VIS
	15:00 - 16:00	1.00	CIRC	1	CIRC. OUT GAS (DRLG BREAK F/ 11953'-11985') TOTAL PIT GAIN 68 BBLs WITH 40' FLARE
	16:00 - 20:00	4.00	DRL	1	DRILL F/ 12005'-12061', WOB- 8-12K, RPM- 150 COMBINED, GPM- 445, MW- 10.9, VIS- 47, LCM- 4%, STARTED LOSING RETURNS @ 12054', PUMPED 20 BBL LCM PILL WITH 15% LCM
	20:00 - 01:30	5.50	CIRC	2	LOST TOTAL RETURNS @ 12061', BYPASSED SHAKERS & PUMPED 220 BBL LCM PILL WITH 15% LCM TO REGAIN RETURNS, BUILD VOLUME & CONDITION MUD
	01:30 - 04:30	3.00	DRL	1	DRILL F/ 12061'-12104', WOB- 10K, RPM- 142 COMBINED, GPM- 385, MW- 10.9, VIS- 45, LCM- 8%, SEEPING 3 BBLs/HR, BG GAS- 2880u W/ 6' FLARE
6/13/2008	04:30 - 06:00	1.50	CIRC	1	CIRC. BOTTOMS UP F/ SHORT TRIP
	06:00 - 06:30	0.50	CIRC	1	FLOW CHECK & PUMP TRIP SLUG (WELL FLOWING 6 GAL./ MIN.)
	06:30 - 08:00	1.50	TRP	14	SHORT TRIP OUT 20 STDS WITH NO PROBLEMS
	08:00 - 12:00	4.00	TRP	14	TRIP IN & REAM OUT TIGHT HOLE F/ 11160'-11268'
	12:00 - 14:30	2.50	CIRC	1	CIRC. & CONDITION MUD F/ LOGS, MW- 10.9, VIS- 46, LCM- 10%, NO LOSSES
	14:30 - 15:00	0.50	CIRC	1	SPOT 120 BBL ECD PILL, MW- 12.5, VIS- 46, LCM- 15%
	15:00 - 16:30	1.50	TRP	2	TRIP OUT 15 STDS WET
	16:30 - 17:00	0.50	CIRC	1	PUMP TRIP SLUG
	17:00 - 22:00	5.00	TRP	2	TRIP OUT F/ LOGS (HOLE FILL 8 BBLs OVER CALCULATED)
	22:00 - 22:30	0.50	TRP	1	BREAK BIT & LAY DOWN MUD MOTOR, FUNCTIONED BLIND RAMS
	22:30 - 23:00	0.50	TRP	2	CLEAR & CLEAN RIG FLOOR
6/14/2008	23:00 - 00:00	1.00	LOG	1	HOLD SAFETY MEETING & RIG UP HALLIBURTON LOGGING TOOLS
	00:00 - 05:00	5.00	LOG	1	RUN WIRELINE LOGS- TRIPLE COMBO, LOGGERS DEPTH- 12098'
	05:00 - 06:00	1.00	LOG	1	RIG DOWN LOGGING TOOLS
	06:00 - 06:30	0.50	LOG	1	RIG DOWN LOGGING TOOLS
	06:30 - 10:30	4.00	TRP	2	MAKE UP BIT, BIT SUB & TRIP IN TO CSG SHOE, FILL PIPE & BREAK CIRC. EVERY 2000'
	10:30 - 11:00	0.50	TRP	2	INSTALL ROT. HEAD RUBBER
	11:00 - 12:00	1.00	CIRC	1	FILL PIPE & CIRC. BOTTOMS UP
	12:00 - 13:00	1.00	RIG	1	CIRC., LUBRICATE RIG & TOP DRIVE
	13:00 - 14:00	1.00	RIG	6	CUR DRLG LINE & RESET COM
	14:00 - 16:00	2.00	TRP	2	TRIP IN, FILL PIPE & BREAK CIRC. EVERY 2000'
	16:00 - 18:00	2.00	CIRC	1	FILL PIPE & CIRC OUT GAS @ 10250', MW- 10.9, VIS- 40, LCM- 12%, BG GAS- 1450u W/ 15' FLARE, BOTTOMS UP GAS- 3500u W/ 40' FLARE
	18:00 - 19:00	1.00	TRP	2	FINISH TRIPPING IN
	19:00 - 19:30	0.50	REAM	1	WASH 60' TO BOTTOM WITH NO FILL
	19:30 - 22:00	2.50	CIRC	1	CIRCULATE & CODITION MUD FOR CSG., MW- 10.9, VIS- 43, LCM- 10%, BG GAS- 2430u W/ 3' FLARE, NO LOSSES
6/15/2008	22:00 - 23:00	1.00	CIRC	1	SPOT 180 BBL ECD PILL 1.8# OVER
	23:00 - 23:30	0.50	SUR	1	DROP SURVEY & FLOW CHECK- NO FLOW
	23:30 - 00:30	1.00	TRP	2	TRIP OUT 20 STDS
	00:30 - 01:00	0.50	CIRC	1	PUMP TRIP SLUG & HOLD SAFETY MEETING WITH LAY DOWN CREW
	01:00 - 06:00	5.00	TRP	3	RIG UP LAY DOWN MACHINE & LAY DOWN DP
	06:00 - 13:00	7.00	TRP	3	LAY DOWN DP & BHA
	13:00 - 13:30	0.50	TRP	3	PULL WEAR BUSHING
	13:30 - 16:00	2.50	CSG	1	HOLD SAFETY MEETING & RIG UP ROCKY MTN. CSG CREW
	16:00 - 22:00	6.00	CSG	2	RUN 7" CSG, FILL PIPE & BREAK CIRC. EVERY 1500', NO LOSSES
	22:00 - 23:00	1.00	CIRC	1	CIRC. BOTTOMS UP @ CSG SHOE
	23:00 - 03:30	4.50	CSG	2	RUN 7" CSG, FILL PIPE & BREAK CIRC. EVERY 1500', NO LOSSES
	03:30 - 05:00	1.50	CIRC	1	CIRC. OUT GAS THRU BOTH CHOKES @ 9490', MW- 10.9, VIS- 41, LCM- 9%,

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Operations Summary Report

Well Name: WV 13D-23-8-21
 Location: 23- 8-S 21-E 26
 Rig Name: UNIT

Spud Date: 4/6/2008
 Rig Release: 7/4/2008
 Rig Number: 109

Date	From - To	Hours	Code	Sub Code	Description of Operations
6/15/2008	03:30 - 05:00	1.50	CIRC	1	NO LOSSES, BG GAS- 2250 W/ 8' FLARE, BOTTOMS UP GAS- 3250u W/ 20' FLARE
6/16/2008	05:00 - 06:00	1.00	CSG	2	RUN 7" CSG
	06:00 - 08:00	2.00	CSG	2	RUN 7" CSG
	08:00 - 11:30	3.50	CIRC	1	WASH DOWN 35' TO BOTTOM & CIRC OUT GAS, MW- 10.9, VIS- 41, NO LOSSES, BOTTOMS UP GAS- 5700u W/ 40' FLARE, BG GAS- 2680u W/ 8' FLARE, RIG DOWN ROCKY MTN. CSG CREW
	11:30 - 15:00	3.50	DEQ	4	LAND CSG, LAY DOWN RUNNING TOOL, INSTALL PACK OFF & TEST TO 8500 PSI, MAKE UP & INSTALL CEMENT ISOLATION TOOL
	15:00 - 17:00	2.00	CMT	1	RIG UP HALLIBURTON LINES & CIRC. BOTTOMS UP THRU "B" SECTION W/ RIG PUMP (LOST 80 BBLs)
	17:00 - 18:00	1.00	RIG	7	HOLD SAFETY MEETING WITH HALLIBURTON CEMENTERS & TEST LINES TO 6000 PSI
	18:00 - 00:00	6.00	CMT	2	CEMENT CSG (1ST LEAD- 550 SX FOAMED @ 9.5 PPG, 2ND LEAD- 1670 SX FOAMED @ 11 PPG, TAIL- 120 SX UNFOAMED @ 14.3 PPG, 200 SX CAP CEMENT @ 14.6), FULL RETURNS ENTIRE JOB, PLUG BUMPED, FOATS HELD & RECOVERED 225 BBLs CEMENT BACK TO SURFACE
	00:00 - 01:30	1.50	CMT	1	RIG DOWN CEMENTERS
6/17/2008	01:30 - 03:30	2.00	LOC	7	START CLEANING MUD TANKS, RIG DOWN 8.5" ROTARY TOOLS & PICK UP 6.25' TOOLS
	03:30 - 04:30	1.00	BOP	2	HOLD SAFETY MEETING & RIG UP BOP TESTERS
	04:30 - 06:00	1.50	BOP	2	PRESSURE TEST BOP (10M HI, 250 LOW)
	06:00 - 10:00	4.00	BOP	2	PRESSURE TEST BOP- 10M HI, 250 LOW, ANNULAR- 5M, CSG- 2M
	10:00 - 17:00	7.00	LOC	7	CLEAN MUD TANKS & GEL GATES, RIG UP SOLIDS CONTROL EQUIPMENT F/ OBM, BUILD UP DIKE ACROSS RESERVE PIT, FILL MUD TANKS WITH OBM, RACK & STRAP BHA & 4" DP
	17:00 - 18:00	1.00	BOP	2	INSTALL WEAR BUSHING
	18:00 - 19:00	1.00	RIG	1	LUBRICATE RIG & TOP DRIVE, RESET TORQUE ON TOP DRIVE
	19:00 - 20:00	1.00	RIG	7	HOLD SAFETY MEETING WITH PICK UP CREW & RIG UP LAY DOWN MACHINE
	20:00 - 20:30	0.50	TRP	1	PICK UP & SURFACE TEST MUD MOTOR
	20:30 - 06:00	9.50	TRP	1	PICK UP 4 3/4" BHA & 4" DP, FILL PIPE AFTER BHA, THEN EVERY 3000'
6/18/2008	06:00 - 08:00	2.00	TRP	3	PICK UP 4" DP
	08:00 - 08:30	0.50	CSG	1	CIRC. & RIG DOWN LAY DOWN MACHINE
	08:30 - 09:30	1.00	RIG	1	LUBRICATE RIG & TOP DRIVE, INSTALL ROT. HEAD ELEMENT
	09:30 - 10:30	1.00	REAM	1	WASH DOWN TO TOP OF CEMENT @ 12030'
	10:30 - 13:00	2.50	DRL	4	DRILL CEMENT, FLOAT EQUIPMENT & 6' OF NEW HOLE
	13:00 - 14:00	1.00	EQT	2	CIRC. & FIT TO 16 PPG EQUIVALENT
	14:00 - 06:00	16.00	DRL	1	DRILL F/ 12110'-12552', WOB- 6/10K, RPM- 160 COMBINED, GPM- 225, MW- 13.7, VIS- 47, BG GAS- 220u, NO LOSSES
	6/19/2008	06:00 - 15:30	9.50	DRL	1
15:30 - 16:30		1.00	RIG	1	LUBRICATE RIG & TOP DRIVE, FUNCTION HCR & COM
16:30 - 20:30		4.00	DRL	1	DRILL F/ 12874'-13051', WOB- 6/8K, RPM- 150 COMBINED, GPM- 225, MW-13.6, VIS- 43, BG GAS- 450u, NO LOSSES
20:30 - 04:00		7.50	WCL	1	TOOK KICK @ 13051', SHUT IN WELL & CIRCULATE OUT GAS THRU CHOKE, SICP- 1500 PSI, SIDPP- 300 PSI, RAISED MW FROM 13.6-14.5, 5400u WITH 30-60' FLARES
6/20/2008	04:00 - 05:00	1.00	DRL	1	DRILL F/ 13051'-13090', DRLG WITH SAME PARAMETERS, MW- 14.5, VIS- 45
	05:00 - 06:00	1.00	WCL	1	CIRCULATE OUT GAS THRU CHOKE & RAISE MW TO 14.7
	06:00 - 16:30	10.50	CIRC	1	CONDITION MUD & CIRCULATE OUT GAS, RAISE MW FROM 14.5-15.6
	16:30 - 06:00	13.50	DRL	1	DRILL F/ 13090'-13320', WOB- 6/10K, RPM- 150 COMBINED, GPM- 225, MW- 15.6, VIS- 48, BG GAS- 4000u, W/ 5' FLARE, CONN GAS- 5600u W/ 40' FLARE, NO

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Operations Summary Report

Well Name: WV 13D-23-8-21
 Location: 23- 8-S 21-E 26
 Rig Name: UNIT

Spud Date: 4/6/2008
 Rig Release: 7/4/2008
 Rig Number: 109

Date	From - To	Hours	Code	Sub Code	Description of Operations
6/20/2008	16:30 - 06:00	13.50	DRL	1	LOSSES
6/21/2008	06:00 - 15:30	9.50	DRL	1	DRILL F/ 13320'-13647', WOB- 6/10K, RPM- 150 COMBINED, GPM- 214, MW- 15.5, VIS- 46, BG GAS- 2000u W/ 8' FLARE, CONN GAS- 3200u W/ 40' FLARE, NO LOSSES
	15:30 - 16:30	1.00	RIG	1	LUBRICATE RIG & TOP DRIVE, FUNCTION HCR & COM
	16:30 - 06:00	13.50	DRL	1	DRILL F/ 13647'-14100', WOB- 6/10, RPM- 150 COMBINED, GPM- 214, MW- 15.5, VIS- 46, BG GAS- 1800u W/ 10' FLARE, CONN GAS- 3800u W/ 40' FLARE, NO LOSSES
6/22/2008	06:00 - 15:30	9.50	DRL	1	DRILL F/ 14100'-14360', WOB- 6/10K, RPM- 150 COMBINED, GPM- 214, MW- 15.4, VIS- 46, BG GAS- 3200u W/ 10' FLARE, CONN GAS- 5850u W/ 40' FLARE, NO LOSSES
	15:30 - 16:30	1.00	RIG	1	LUBRICATE RIG & TOP DRIVE, FUNCTION TOP PIPE RAMS & COM
	16:30 - 06:00	13.50	DRL	1	DRILL F/ 14360'-14800', WOB- 6/10K, RPM- 150 COMBINED, GPM- 214, MW- 15.4+, VIS- 47, BG GAS- 2200u W/ 5' FLARE, CONN GAS- 5480u W/ 35' FLARE, NO LOSSES
6/23/2008	06:00 - 11:30	5.50	DRL	1	DRILL F/ 14800'-14941', WOB- 6/10K, RPM- 150 COMBINED, GPM- 214, MW- 15.4+, VIS- 46, BG GAS- 3800u W/ 8' FLARE, CONN GAS- 5200u W/ 40' FLARE, NO LOSSES
	11:30 - 12:30	1.00	RIG	1	LUBRICATE RIG & TOP DRIVE, FUNCTION LOWER PIPE RAMS & COM
	12:30 - 16:00	3.50	DRL	1	DRILL F/ 14951'-15035', DRLG WITH SAME PARAMETERS, MW & VIS, NO LOSSES
	16:00 - 16:30	0.50	RIG	2	FREE UP ADJUSTMENT BOLTS F/ BRAKE BANDS & ADJUST BRAKES
	16:30 - 06:00	13.50	DRL	1	DRILL F/ 15035'-15327', WOB- 8/12K, RPM- 150 COMBINED, GPM- 204, MW- 15.5, VIS- 48, BG GAS- 3500 u W/ 5' FLARE, CONN GAS- 5200u W/ 35' FLARE, NO LOSSES
6/24/2008	06:00 - 07:00	1.00	DRL	1	DRILL F/ 15327'-15382', WOB- 8/12K, RPM- 145 COMBINED, GPM- 204, MW- 15.5, VIS- 49, BG GAS- 3280u W/ 4' FLARE
	07:00 - 07:30	0.50	RIG	2	REPLACE SWAB IN #1 PUMP (4" ISOLATION VALVE IS BAD ALSO, WILL BE REPLACED ON TRIP)
	07:30 - 13:30	6.00	DRL	1	DRILL F/ 15382'-15522', DRLG WITH SAME PARAMETERS, MW & VIS, BG GAS- 3650u W/ 4' FLARE, CONN GAS- 4650u W/ 40' FLARE, NO LOSSES
	13:30 - 14:30	1.00	RIG	1	LUBRICATE RIG & TOP DRIVE, FUNCTION TOP PIPE RAMS & COM
	14:30 - 06:00	15.50	DRL	1	DRILL F/ 15522'-16000', WOB- 8/12K, RPM- 145 COMBINED, GPM- 204, MW- 15.5, VIS- 49, BG GAS-3500u W/ 3' FLARE, CONN GAS- 4600u W/ 30' FLARE, NO LOSSES
6/25/2008	06:00 - 16:00	10.00	DRL	1	DRILL F/ 16000'-16156', WOB- 8/12K, RPM- 140 COMBINED, GPM- 204, MW- 15.5, VIS- 47, BG GAS- 3400u W/ 5' FLARE, CONN GAS- 4500u W/ 35' FLARE, NO LOSSES
	16:00 - 17:00	1.00	RIG	1	LUBRICATE RIG & TOP DRIVE, FUNCTION HCR & COM
	17:00 - 19:30	2.50	CIRC	1	CIRCULATE BOTTOMS UP & SPOT 180 BBL 2 LB OVER ECD PILL
	19:30 - 00:30	5.00	TRP	10	TRIP OUT WET F/ BIT & MUD MOTOR
	00:30 - 01:30	1.00	TRP	10	PULL ROT. HEAD ELEMENT, FLOW CHECK & PUMP TRIP SLUG
	01:30 - 05:30	4.00	TRP	10	TRIP OUT, HOLE FILL 12 BBLS OVER CALCULATED
	05:30 - 06:00	0.50	TRP	1	BREAK BIT, LAY DOWN MUD MOTOR, FUNCTIONED BLIND RAMS
6/26/2008	06:00 - 07:00	1.00	TRP	10	CLEAN RIG FLOOR AFTER TRIPPING OUT WET BHA
	07:00 - 08:00	1.00	TRP	1	LAY DOWN BICO MUD MOTOR, PICK UP HUNTING MUD MOTOR & SURFACE TEST MOTOR
	08:00 - 13:00	5.00	TRP	10	TRIP IN, FILL PIPE & BREAK CIRCULATION EVERY 3000'
	13:00 - 13:30	0.50	TRP	10	INSTALL ROT. HEAD ELEMENT @ 11950'
	13:30 - 14:30	1.00	RIG	6	CUT DRLG LINE & RESET COM
	14:30 - 15:30	1.00	RIG	1	LUBRICATE RIG & TOP DRIVE, FUNCTION HCR, REPLACED 4" ISOLATION VALVE FOR #1 PUMP
	15:30 - 17:00	1.50	CIRC	1	CIRCULATE OUT ECD PILL, CHANGE OIL IN TOP DRIVE MOTOR

Operations Summary Report

Well Name: WV 13D-23-8-21
 Location: 23- 8-S 21-E 26
 Rig Name: UNIT

Spud Date: 4/6/2008
 Rig Release: 7/4/2008
 Rig Number: 109

Date	From - To	Hours	Code	Sub Code	Description of Operations
6/26/2008	17:00 - 18:00	1.00	TRP	10	TRIP IN 22 STDS
	18:00 - 19:00	1.00	CIRC	1	CIRCULATE OUT BOTTOM END OF ECD PILL
	19:00 - 20:00	1.00	TRP	10	TRIP IN
	20:00 - 21:30	1.50	REAM	1	WASH 170' TO BOTTOM & CIRC OUT GAS- 45' BOTTOMS UP FLARE W/ 5765u
	21:30 - 06:00	8.50	DRL	1	DRILL F/ 16156'-16272', WOB- 6/8K, RPM- 88 COMBINED, GPM- 205, MW- 15.6, VIS- 48, BG GAS- 3500u W/ 3' FLARE, CONN GAS- 5000u W/ 35' FLARE, NO LOSSES
6/27/2008	06:00 - 12:00	6.00	DRL	1	DRILL F/ 16272'-16330', WOB- 6/8K, RPM- 88 COMBINED, GPM- 205, MW- 15.5, VIS- 45, BG GAS- 4320u W/ 2' FLARE, CONN GAS- 4620 W/ 30' FLARE, NO LOSSES
	12:00 - 13:30	1.50	CIRC	1	SPOT 80 BBL ECD PILL 1.5 PPG OVER
	13:30 - 15:30	2.00	TRP	10	TRIP OUT 33 STDS TO 13100' (TIGHT HOLE FROM 15600'-15320')
	15:30 - 17:30	2.00	CIRC	1	CIRC. OUT BOTTOMS UP GAS- 35' FLARE W/ 4800u, SPOT100 BBL 2 PPG OVER ECD PILL
	17:30 - 18:00	0.50	TRP	10	TRIP OUT TO CSG SHOE
	18:00 - 18:30	0.50	TRP	10	PULL ROT. HEAD ELEMENT, CHECK F/ FLOW
	18:30 - 23:30	5.00	TRP	10	TRIP OUT F/ BIT & MUD MOTOR, HOLE FILL 14 BBLS OVER CALCULATED
	23:30 - 00:30	1.00	TRP	1	BREAK BIT, LAY DOWN MUD MOTOR & NON MAG DC
	00:30 - 06:00	5.50	TRP	10	MAKE UP BIT, BIT SUB & TRIP IN, CHANGED OUT JARS, FILL & BREAK CIRC. EVERY 2000'
	6/28/2008	06:00 - 07:30	1.50	TRP	10
07:30 - 08:30		1.00	CIRC	1	CIRC. OUT ECD PILL @ 11900', LUBRICATE RIG & TOP DRIVE
08:30 - 09:30		1.00	TRP	10	TRIP IN
09:30 - 10:30		1.00	CIRC	1	CIRC OUT ECD PILL @ 14177'
10:30 - 11:30		1.00	TRP	10	TRIP IN
11:30 - 12:30		1.00	REAM	1	WASH 105' TO BOTTOM, NO FILL
12:30 - 13:00		0.50	CIRC	1	SHUT IN WELL & CIRC OUT GAS THRU CHOKE, 5300u W/ 50' FLARE
13:00 - 06:00		17.00	DRL	1	DRILL F/ 16330'-16430', WOB- 8/10K, RPM- 60, GPM- 214, MW- 15.5, VIS- 47, BG GAS- 3580u, CONN GAS- 4630U W/ 30' FLARE, NO LOSSES
6/29/2008	06:00 - 08:30	2.50	DRL	1	DRILL F/ 16430'-16437', WOB- 10/12K, RPM- 60, GPM- 214, MW- 15.5, VIS- 46, BG GAS- 3520u, NO LOSSES
	08:30 - 09:00	0.50	CIRC	1	CIRC. & WAIT ON ORDERS
	09:00 - 10:30	1.50	TRP	14	SHORT TRIP 15 STDS
	10:30 - 13:30	3.00	CIRC	1	CIRC. OUT GAS & SPOT 80 BBL ECD PILL 1.5 PPG OVER
	13:30 - 15:00	1.50	TRP	2	TRIP OUT 34 STDS
	15:00 - 17:00	2.00	CIRC	1	CIRC OUT GAS & SPOT 120 BBL ECD PILL 2 PPG OVER
	17:00 - 18:00	1.00	TRP	2	TRIP OUT F/ LOGS
	18:00 - 18:30	0.50	TRP	2	PULL ROT. HEAD ELEMENT & CHECK F/ FLOW
	18:30 - 23:00	4.50	TRP	2	TRIP OUT F/ LOGS, HOLE FILL 10 BBLS OVER CALCULATED
	23:00 - 00:00	1.00	LOG	1	HOLD SAFETY MEETING & RIG UP HALLIBURTON LOGGING TOOLS
	00:00 - 05:00	5.00	LOG	1	RUN WIRELINE LOGS, 1ST RUN-SONIC/ RESISTIVITY (HAD SEVERAL TIGHT SPOTS F/ 15600'-13000', DID NOT RUN 2ND LOG), LOGGERS TD- 16437'
6/30/2008	05:00 - 06:00	1.00	LOG	1	RIG DOWN LOGGING TOOLS
	06:00 - 06:30	0.50	LOG	1	RIG DOWN LOGGING TOOLS
	06:30 - 07:30	1.00	RIG	6	CUT DRLG LINE & RESET COM
	07:30 - 08:30	1.00	RIG	1	LUBRICATE RIG & TOP DRIVE, FUNCTION BLIND RAMS
	08:30 - 13:00	4.50	TRP	2	MAKE UP BIT & TRIP IN, BREAK CIRC. EVERY 3000'
	13:00 - 13:30	0.50	TRP	2	INSTALL ROT. HEAD ELEMENT
	13:30 - 14:30	1.00	CIRC	1	CIRC. OUT ECD PILL @ 10015'
	14:30 - 15:30	1.00	TRP	2	TRIP IN
	15:30 - 17:00	1.50	CIRC	1	CIRC. OUT ECD PILL & GAS THRU CHOKE @ 13240', 5200u W/ 45' FLARE
	17:00 - 18:00	1.00	TRP	2	TRIP IN
18:00 - 20:00	2.00	CIRC	1	WASH 90' TO BOTTOM & CIRC OUT GAS THRU CHOKE, 5800u W/ 40' FLARE	

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Operations Summary Report

Well Name: WV 13D-23-8-21
 Location: 23- 8-S 21-E 26
 Rig Name: UNIT

Spud Date: 4/6/2008
 Rig Release: 7/4/2008
 Rig Number: 109

Date	From - To	Hours	Code	Sub Code	Description of Operations
6/30/2008	20:00 - 01:00	5.00	DRL	1	DRILL F/ 16437-16454', WOB- 14/16K, RPM- 65, GPM- 204, MW- 15.5, VIS- 47, BG GAS- 1400u W/ 2' FLARE
	01:00 - 06:00	5.00	CIRC	2	LOST PARTIAL RETURNS, CIRC., MIX & PUMP 15% LCM SWEEPS, GPM-150 MW- 15.5, VIS- 46, BYPASSED SHAKERS
7/1/2008	06:00 - 11:00	5.00	CIRC	2	BUILD VOLUME, CIRC. & CONDITION MUD & RAISE LCM CONTENT TO 10%
	11:00 - 12:00	1.00	CIRC	2	SPOT 25% LCM PILL ON BOTTOM
	12:00 - 13:30	1.50	TRP	14	SHORT TRIP 15 STDS, HOLE FILL 1 BBL UNDER CALCULATED
	13:30 - 16:00	2.50	CIRC	1	CIRC OUT BOTTOMS UP GAS & CIRC. & CONDITION MUD
	16:00 - 17:00	1.00	CIRC	1	SPOT 80 BBL ECD PILL 1 PPG OVER
	17:00 - 19:00	2.00	TRP	2	TRIP OUT 34 STDS
	19:00 - 20:00	1.00	CIRC	1	CIRC OUT BOTTOMS UP GAS, HOLD SAFETY MEETING & RIG UP LAY DOWN MACHINE
7/2/2008	20:00 - 21:00	1.00	CIRC	1	SPOT 120 BBL ECD PILL 2PPG OVER
	21:00 - 06:00	9.00	TRP	3	LAY DOWN DP
	06:00 - 11:00	5.00	TRP	3	TRIP IN 34 STDS & LAY DOWN DRILL STRING
	11:00 - 12:00	1.00	TRP	3	PULL WEAR BUSHING (ANNULAR ELEMENT IS BAD, WILL BE REPLACED ON RIG MOVE)
	12:00 - 15:00	3.00	CSG	1	HOLD SAFETY MEETING & RIG UP ROCKY MTN CSG CREW
	15:00 - 17:00	2.00	CSG	2	RUN 4 1/2" CSG, FILL & BREAK CIRC. EVERY 30 JTS
	17:00 - 18:00	1.00	CSG	2	CSG PRESSURED UP WHILE FILLING CSG, ATTEMPT TO UNPLUG STRING
	18:00 - 19:30	1.50	CSG	1	RIG DOWN LAY CSG ELEVATORS, BALES & FILL TOOL
	19:30 - 22:30	3.00	CSG	2	TRIP OUT 15 STDS OF CSG (WET)
	22:30 - 23:30	1.00	CSG	2	LAY DOWN 2 JTS OF CSG & CLEAN RIG FLOOR
7/3/2008	23:30 - 01:30	2.00	CSG	2	MAKE UP NEW FLOAT EQUIPMENT & TRIP IN CSG
	01:30 - 06:00	4.50	CSG	2	RIG UP CSG TOOLS & RUN 4 1/2 CSG, FILL & BREAK CIRC. EVERY 1000', STARTED SHAKING OUT LCM SLOWLY
	06:00 - 12:30	6.50	CSG	2	RUN CASING - STAGE INTO HOLE - FILL AND CIRC. FOR 10 MIN EVERY 1000'
	12:30 - 13:00	0.50	BOP	1	INSTALL CASING HEAD RUBBER INTO UNIT
	13:00 - 18:00	5.00	CSG	2	RUN CASING - STAGE INTO HOLE - FILL AND CIRC. FOR 10 MIN EVERY 1000'
	18:00 - 19:30	1.50	CIRC	1	CIRCULATE BOTTOMS UP AT 13160 - 50' FLARE THRU CHOKE
	19:30 - 23:30	4.00	CSG	2	FINISH RUNNING CASING
	23:30 - 00:00	0.50	CSG	2	RUN LAST JOINT DOWN DRY, SOFT TAG 2 TIMES, CIRC. AND TAG SAME SPOT WITH 35 TO 40K 4 TIMES, 12 FEET FROM BOTTOM, CALLED MONTY AND DECIDED TO CEMENT THERE
	00:00 - 01:00	1.00	CMT	1	RIG UP HIGH PRESSURE NIPPLE AND CEMENT HEAD
	01:00 - 04:00	3.00	CIRC	1	CIRCULATE AND CONDITION MUD TO 15.3 WITH 4% LCM - LOWERED MUD WT. ALSO WHILE RUNNING CASING - HELD SAFETY MEETING WITH CEMENTERS
7/4/2008	04:00 - 06:00	2.00	CMT	2	PRESSURE TEST TO 12000 PSI AND CEMENT - STILL FULL RETURNS AT 0500
	06:00 - 07:30	1.50	CMT	2	FINISH CEMENT JOB, BUMP PLUG, WAIT .5 W/ PSI ON PLUG, FLOAT HELD,
	07:30 - 08:30	1.00	CMT	1	RIG DOWN CEMENTERS
	08:30 - 14:00	5.50	LOC	4	RIG DOWN FLOOR, DRAIN STACK AND CLEAN CELLAR, PULL MASTER BUSHINGS, CLEAN FLOOR AND PREPAIR FOR CLEANING MUD LINES - WHILE DOING THAT WE WERE CUTTING MUD WT AND SHAKING OUT LCM - MUD WT DOWN TO 14.85
	14:00 - 16:00	2.00	CIRC	1	BLOW KELLY CLEAN OF OILBASE, BUILD CHEMICAL FLUSH FOR CIRCULATING MUD LINES, STACK, BUSTER, CHOKE, GUN LINES ECT - CLEAN PITS
	16:00 - 18:00	2.00	BOP	1	START NIPPLE DOWN FOR SETTING OF SLIPS - CLEAN PITS
	18:00 - 03:00	9.00	BOP	1	FINISH NIPPLE DOWN, HAD TO CUT 6 STUDS AS WE COULD NOT BREAK THEM FREE, RIG UP WINCHES, LIFT STACK, SET SLIPS WITH 10K OVER STRING WT., MAKE ROUGH CUT ON CASING, RIG DOWN WINCHES - CLEAN PITS

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Operations Summary Report

Well Name: WV 13D-23-8-21
 Location: 23- 8-S 21-E 26
 Rig Name: UNIT

Spud Date: 4/6/2008
 Rig Release: 7/4/2008
 Rig Number: 109

Date	From - To	Hours	Code	Sub Code	Description of Operations
7/4/2008	03:00 - 06:00	3.00	LOC	7	CLEAN PITS - FINISH RIGGING DOWN KOOMEY, WORK ON PUMPS (GO THRU VALVES AND ROTATE LINERS) LAY DOW CASING BALES AND ELEVATORS, POSSIBLE CHANCE OF RELEASING RIG BY NOON
7/5/2008	06:00 - 12:00	6.00	LOC	7	FINISHED CLEANING MUD TANKS - RIG DOWN BUSTER LINES - RELEASE RIG 07/04/2008 AT 12:00

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Operations Summary Report - COMPLETION

43-047-39103

Well Name: WV 13D-23-8-21
 Location: 23-8-S 21-E 26
 Rig Name:

Spud Date: 4/6/2008
 Rig Release:
 Rig Number:

Date	From - To	Hours	Code	Sub Code	Description of Operations
7/15/2008	08:00 - 02:00	18.00	LOG	2	MIRU LONE WOLF ELU. MU AND RIH WITH CCL/GR/CBL/VDL LOGGING TOOLS AND TAG CORRELATED PBTD AT 16,404'. PRESSURE UP TO 4,000 PSI AND LOGGING TOOLS QUIT WORKING MULTIPLE TIMES. FINALLY THEY RUN OUT OF TOOLS AND TRUCKS. RDMO ELU. PLAN TO RUN CBL WHEN WE RUN THE NEUTRON POROSITY LOG WITH SLB.
7/16/2008	06:00 - 06:00	24.00	LOC	4	SETTING IPS FBE
7/17/2008	07:00 - 14:00	7.00	LOG	2	MIRU SLB ELU. MU RIH WITH CCL/GR/CBL/VDL LOGGING TOOLS AND LOG FROM CORRELATED PBTD (16,414) TO 2,000' WHILE HOLDING 1,000 PSI. CEMENT LOOKED GOOD. TOC AT SURFACE.
	15:00 - 21:00	6.00	LOG	2	MIRU SLB ELU. MU AND RIH WITH NEUTRON POROSITY LOGGING TOOLS. LOG FROM PBTD TO 11,900' WHILE HOLDING 1,000 PSI. RDMO ELU.
7/18/2008	08:00 - 12:00	4.00	WHD	2	NU 4 1/16" FRAC TREE. SCHOONER HCR AND STINGER FRAC HEAD. SET WORK STAND.
7/19/2008	06:00 - 06:00	24.00	WOT	4	WOCTDO
7/20/2008	06:00 - 15:00	9.00	LOC	4	RU IPS FBE AND SCHOONER FLOWCROSS. SPOT IPS CTU.
7/21/2008	06:00 - 08:30	2.50	DRL	5	FINISH RU IPS CTU, GCDOE AND SPIRIT FLUIDS. LOAD CT WITH 70° WATER. TEST CSG TO 10,000 PSI & ANNULUS TO 3,000 PSI. BOTH TEST GOOD. MU QES 2 7/8" MOTOR/JARS WITH 3.55" 5-BLADE JUNK MILL. TEST STACK TO 8,000 PSI.
	08:30 - 21:30	13.00	DRL	5	RIH TO TAG @ 16,431'. DRILL OUT FC & SHOE TO DEPTH OF 16,449' (FC & SHOE @ 16,442'). PUMP FINAL 10 BBLs SWEEP AND POOH. MU NEW MOTOR AND MILL. RE-TEST STACK TO 8,000 PSI. SDFN.
7/22/2008	06:00 - 18:00	12.00	DRL	6	PRESSURE TEST STACK TO 8,000 PSI. OPEN WELL WITH 3,600 PSI. RIH AND TAG @ 16,437'. DRILL OUT OPEN HOLE TO 16,460' (CTM) FOR A TOTAL OF 39.5' FROM THE FLOAT SHOE. PUMP FINAL SWEEP AND POOH. RDMO CTU AND DRILL OUT EQUIPMENT.
	18:00 - 06:00	12.00	PTST	2	FLOW WELL THRU IPS FBE TO SALES.
8/4/2008	06:00 - 08:00	2.00	STIM	3	FRAC STAGE #1 WITH 1,358 BBLs 35# HYBOR-G CARRYING 22,586 LBS# 30/60 SINTERLITE SAND. AVG RATE= 43.8 BPM. AVG PSI= 10,374. SHOW DOWN EARLY DUE TO HES PUMP PROBLEMS. CONTINUE ON WITH STAGE #2.
	08:00 - 13:00	5.00	PERF	2	PERF STG #2 WITH 5- 1', 3- 2' & 1- 3' GUN LOADED 3 SPF, 120° PHASE, 11 GRAM CHARGE. SET 3.44" CFP AT 16,400' WITH 7,000 PSI. SHOOT 42 HOLES FROM 15,631' TO 16,325'.
	13:00 - 15:00	2.00	STIM	3	FRAC STAGE #2 WITH 800 GAL. 15% HCL AT 10 BPM, 2,621 BBLs SLICKWATER CARRYING 50,152 LBS# 30/60 SINTERLITE SAND. AVG RATE= 36.9 BPM. AVG PSI= 9,989.
	15:00 - 18:00	3.00	OTH		FLOWED BACK 270 BBLs. PUMPED 100% CSG VOLUME AND CONTINUED WITH STAGE #3.
	18:00 - 21:00	3.00	PERF	2	PERF STG #3 WITH 4- 1' & 5- 2' GUN LOADED 3 SPF, 120° PHASE, 11 GRAM CHARGE. SET 3.44" CBP AT 15,550' WITH 8,000 PSI. SHOOT 42 HOLES FROM 14,882' TO 15,528'.
8/5/2008	07:00 - 08:15	1.25	STIM	3	FRAC STAGE #3 WITH 800 GAL. 15% HCL AT 10 BPM, 2,509 BBLs SLICKWATER CARRYING 35,857 LBS# 30/60 & 20/40 SINTERLITE SAND. AVG RATE= 34.4 BPM. AVG PSI= 10,218.
	08:15 - 11:00	2.75	PERF	2	PERF STG #4A WITH 10- 1', 2- 2' GUN LOADED 3 SPF, 120° PHASE, 11 GRAM CHARGE. SET 3.44" CBP AT 14,800' WITH 7,900 PSI. SHOOT 42 HOLES FROM 13,937' TO 14,779'.
	11:00 - 19:00	8.00	STIM	3	FRAC STAGE #4 WITH 800 GAL. 15% HCL AT 10 BPM, SCREENED OUT AFTER ACID HIT PERFS. TRIED SURGING WELL WITH NO SUCCESS. FLOWED WELL BACK TO TANK. LOAD HOLE WITH SLICKWATER.
	19:00 - 21:30	2.50	PERF	2	RE-PERF STG #4B WITH 4- 4' GUN LOADED 3 SPF, 120° PHASE, 11 GRAM CHARGE 7,700 PSI. SHOOT 48 HOLES FROM 13,937' TO 14,592'.
8/6/2008	06:00 - 06:45	0.75	STIM	3	RE-PUMP STAGE #4 WITH 800 GAL. 15% HCL AT 10 BPM, 578 BBLs

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Operations Summary Report

Well Name: WV 13D-23-8-21
 Location: 23- 8-S 21-E 26
 Rig Name:

Spud Date: 4/6/2008
 Rig Release:
 Rig Number:

Date	From - To	Hours	Code	Sub Code	Description of Operations
8/6/2008	06:00 - 06:45	0.75	STIM	3	SLICKWATER CARRYING 1,213 LBS# 30/60 SINTERLITE SAND. AVG RATE= 27.3 BPM. AVG PSI= 11,030. SCREENED OUT WHEN 0.25 PPA SAND HIT PERFS. FLUSHED 100% OF CSG VOLUME.
	06:45 - 09:15	2.50	PERF	2	PERF STG #5 WITH 6- 1', 4- 2' GUN LOADED 3 SPF, 120° PHASE, 11 GRAM CHARGE. SET 3.44" CBP AT 13,844' WITH 7,800 PSI. SHOOT 42 HOLES FROM 13,053' TO 13,813'.
	09:15 - 11:00	1.75	STIM	3	FRAC STAGE #5 WITH 800 GAL. 15% HCL AT 10 BPM, 2,515 BBLS Slickwater carrying 23,333 LBS# 30/60 SINTERLITE SAND. AVG RATE= 32.6 BPM. AVG PSI= 9,624.
	11:00 - 13:50	2.83	PERF	2	PERF STG #6 WITH 6- 1', 4- 2' GUN LOADED 3 SPF, 120° PHASE, 11 GRAM CHARGE. SET 3.44" CFP AT 12,966' WITH 7,200 PSI. SHOOT 42 HOLES FROM 12,250' TO 12,944'.
	13:50 - 15:15	1.42	STIM	3	FRAC STAGE #6 WITH 800 GAL. 15% HCL AT 10 BPM, 2,532 BBLS Slickwater carrying 46,494 LBS# 30/60 & 20/40 SINTERLITE SAND. AVG RATE= 39.2 BPM. AVG PSI= 8,412.
	15:15 - 17:00	1.75	PERF	2	PERF STG #7 WITH 5- 2' GUN LOADED 3 SPF, 120° PHASE, 11 GRAM CHARGE. SET 3.44" CBP AT 11,864' WITH 5,500 PSI. SHOOT 30 HOLES FROM 11,685' TO 11,846'.
	17:00 - 18:15	1.25	STIM	3	FRAC STAGE #7 WITH 800 GAL. 15% HCL AT 10 BPM, 2,454 BBLS Slickwater carrying 41,735 LBS# 30/60 & 20/40 SINTERLITE SAND. AVG RATE= 43.4 BPM. AVG PSI= 7,000.
	18:15 - 20:30	2.25	PERF	2	PERF STG #8 WITH 12- 1' GUN LOADED 3 SPF, 120° PHASE, 11 GRAM CHARGE. SET 3.44" CFP AT 11,215' WITH ... PSI. SHOOT 36 HOLES FROM 10,906' TO 11,202'.
8/7/2008	06:00 - 07:15	1.25	STIM	3	FRAC STAGE #8 WITH 800 GAL. 15% HCL AT 10 BPM, 2,938 BBLS Slickwater carrying 70,194 LBS# 30/50 SB EXCEL SAND. AVG RATE= 49.7 BPM. AVG PSI= 7,020.
	07:15 - 09:00	1.75	PERF	2	PERF STG #9 WITH 11- 1' GUN LOADED 3 SPF, 120° PHASE, 11 GRAM CHARGE. SET 3.44" CBP AT 10,560' WITH 3,600 PSI. SHOOT 33 HOLES FROM 10,189' TO 10,545'.
	09:00 - 10:15	1.25	STIM	3	FRAC STAGE #9 WITH 800 GAL. 15% HCL AT 10 BPM, 2,931 BBLS Slickwater carrying 69,255 LBS# 30/50 SB EXCEL SAND. AVG RATE= 51.0 BPM. AVG PSI= 6,629.
	10:15 - 12:45	2.50	PERF	2	PERF STG #10 WITH 9- 1' GUN LOADED 3 SPF, 120° PHASE, 11 GRAM CHARGE. SET 3.44" CFP AT 9,860' WITH 4,000 PSI. SHOOT 27 HOLES FROM 8,831' TO 9,839'.
	12:45 - 14:00	1.25	STIM	3	FRAC STAGE #10 WITH 800 GAL. 15% HCL AT 10 BPM, 2,903 BBLS Slickwater carrying 69,364 LBS# 30/50 SB EXCEL SAND. AVG RATE= 49.0 BPM. AVG PSI= 5,655.
	14:00 - 15:30	1.50	PERF	2	PERF STG #11 WITH 4- 2' GUN LOADED 3 SPF, 120° PHASE, 11 GRAM CHARGE. SET 3.44" CFP AT 7,962' WITH 2,600 PSI. SHOOT 24 HOLES FROM 6,423' TO 7,943'.
	15:30 - 16:15	0.75	STIM	3	FRAC STAGE #11 WITH 800 GAL. 15% HCL AT 10 BPM, 762 BBLS DELTA-200 CARRYING 59,873 LBS# 30/50 SB EXCEL SAND. AVG RATE= 42.7 BPM. AVG PSI= 6,768.
8/8/2008	16:15 - 18:00	1.75	LOC	4	RDMO HES & OWP ELU. MIRU IPS FBE.
	06:00 - 22:00	16.00	DRL	6	MIRU IPS CTU, GCDOE, SPIRIT FLUIDS. MU QES 2 7/8" MOTOR/JARS AND 3.55" 5-BLADE JUNK MILL. TEST STACK TO 8,000 PSI. RIH AND DRILLOUT 10 PLUGS IN 9.5 HOURS TO THE OH DEPTH OF 16,460'. PUMP FINAL SWEEP AND POOH.
8/9/2008	22:00 - 06:00	8.00	PTST	2	FLOWING TO SALES THROUGH IPS FBE.
8/9/2008	06:00 - 06:00	24.00	PTST	2	FLOWING TO SALES THROUGH IPS FBE.
8/10/2008	06:00 - 06:00	24.00	PTST	2	FLOWING TO SALES THROUGH IPS FBE.

Operations Summary Report

Well Name: WV 13D-23-8-21
 Location: 23- 8-S 21-E 26
 Rig Name:

Spud Date: 4/6/2008
 Rig Release:
 Rig Number:

Date	From - To	Hours	Code	Sub Code	Description of Operations
8/11/2008	06:00 - 06:00	24.00	PTST	2	FLOWING TO SALES THROUGH IPS FBE.
8/12/2008	06:00 - 06:00	24.00	PTST	2	FLOWING TO SALES THROUGH IPS FBE.
8/13/2008	06:00 - 06:00	24.00	PTST	2	RDMO IPS FBE. FLOWING TO SALES THROUGH PRODUCTION EQUIPMENT.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
UTU-025963

1a. Type of Well Oil Well Gas Well Dry Other
 b. Type of Completion: New Well Work Over Deepen Plug Back Diff. Resrv.
 Other: _____

6. If Indian, Allottee or Tribe Name
UTE INDIAN TRIBE

7. Unit or CA Agreement Name and No.
N/A

2. Name of Operator
Questar Exploration & Production Co.

8. Lease Name and Well No.
WV 13D 23 8 21

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

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

9. AFI Well No.
43-047-39663

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At surface 670' FSL, 973' FWL, SWSW, S23-T8S-R21E

10. Field and Pool or Exploratory
NATURAL BUTTES

11. Sec., T., R., M., on Block and Survey or Area S23-T8S-R21E

At top prod. interval reported below
670' FSL, 973' FWL, SWSW, S23-T8S-R21E

12. County or Parish
UINTAH

13. State
UT

At total depth 670' FSL, 973' FWL, SWSW, S23-T8S-R21E

14. Date Spudded
04/06/2008

15. Date T.D. Reached
06/29/2008

16. Date Completed 08/08/2008
 D & A Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*
KB 4835.8'

18. Total Depth: MD 16,454'
TVD

19. Plug Back T.D.: MD 16,440'
TVD

20. Depth Bridge Plug Set: MD
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
DL, DSN, HRI BCS, ACTR, SD, MUD

22. Was well cored? No Yes (Submit analysis)
 Was DST run? No Yes (Submit report)
 Directional Survey? No Yes (Submit copy)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17-1/2"	13-3/8"	54.5#		538'		1024		surface - circ	
12-1/4"	9-5/8"	46.1/47#		5213'		1750		surface - circ	
8-1/2"	7"	26/29#	8000	12090'		2540			
6-1/8"	4-1/2"	15.1/16.6		16454'		670		surface - log	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
N/A					N/A			

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) SEE ATTACHMENT			SEE ATTACHMENT			
B) WMMFD						
C)						
D)						

26. Perforation Record

27. Acid, Fracture, Treatment, Cement Squeeze, etc.

Depth Interval	Amount and Type of Material
SEE ATTACHMENT	SEE ATTACHMENT

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
8/8/2008	8/12/08	24	→	0	4410	1968			Flowing
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
24/64	SI	2975	→					Producing	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
	SI		→						

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*(See instructions and spaces for additional data on page 2)

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28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production ➔	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate ➔	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production ➔	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate ➔	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

29. Disposition of Gas (Solid, used for fuel, vented, etc.)

Sold

30. 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.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
GREEN RIVER	2483'			MANCOS 'B'	12490'
MAHOGANY	3228'			FRONTIER	15186'
WASATCH	5786'			DAKOTA SILT	16080'
MESA VERDE	8808'			DAKOTA	16287'
CASTLEGATE	11269'			TD	16454'
BLACKHAWK	11806'				
MANCOS	12108'				

32. Additional remarks (include plugging procedure):

FUTURE PROSPECTS
GREEN RIVER
MAHOGANY

33. Indicate which items have been attached by placing a check in the appropriate boxes:

- Electrical/Mechanical Logs (1 full set req'd.)
 Geologic Report
 DST Report
 Directional Survey
 Sundry Notice for plugging and cement verification
 Core Analysis
 Other: PERFORATION & FRACING REPORT

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) JIM SIMONTON Title COMPLETION SUPERVISOR
 Signature *Jim Simonton* Date 10/31/2008

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.

(Continued on page 3)

WV 13D 23-8-21 – Attachment One
PERFORATION DETAIL:

Open Perfs	Stimulation						Perf Status
6423' – 6425'	}	Frac w/	59,873	Lbs in	32,004	Gals	Open – Wasatch
6425' – 6427'							Open – Wasatch
7556' – 7558'							Open – Wasatch
7941' – 7943'							Open – Wasatch
8831' – 8832'	}	Frac w/	69,364	Lbs in	121,926	Gals	Open – Mesa Verde
9008' – 9009'							Open – Mesa Verde
9300' – 9301'							Open – Mesa Verde
9304' – 9305'							Open – Mesa Verde
9309' – 9310'							Open – Mesa Verde
9314' – 9315'							Open – Mesa Verde
9323' – 9324'							Open – Mesa Verde
9836' – 9837'							Open – LMV
9838' – 9839'	Open – LMV						
10189' – 10190'	}	Frac w/	69,255	Lbs in	123,102	Gals	Open – LMV
10245' – 10246'							Open – LMV
10322' – 10323'							Open – LMV
10324' – 10325'							Open – LMV
10326' – 10327'							Open – LMV
10345' – 10346'							Open – LMV
10377' – 10378'							Open – LMV
10470' – 10471'							Open – LMV
10472' – 10473'							Open – LMV
10474' – 10475'							Open – LMV
10544' – 10545'							Open – LMV
10906' – 10907'							}
10942' – 10943'	Open – LMV						
11030' – 11031'	Open – LMV						
11084' – 11085'	Open – LMV						
11087' – 11088'	Open – LMV						
11090' – 11091'	Open – LMV						
11100' – 11101'	Open – LMV						
11104' – 11105'	Open – LMV						
11127' – 11128'	Open – LMV						
11148' – 11149'	Open – LMV						
11194' – 11195'	Open – LMV						
11201' – 11202'	Open – LMV						
11685' – 11687'	}	Frac w/	41,735	Lbs in	103,068	Gals	Open – Blackhawk
11691' – 11693'							Open – Blackhawk
11752' – 11754'							Open – Blackhawk
11788' – 11790'							Open – Blackhawk
11844' – 11846'							Open – Blackhawk

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12250' - 12251'						Open - Mancos
12350' - 12351'						Open - Mancos
12437' - 12438'						Open - Mancos
12512' - 12514'						Open - Mancos 'B'
12552' - 12553'						Open - Mancos 'B'
12660' - 12662'	Frac w/	46,494	Lbs in	106,344	Gals	Open - Mancos
12735' - 12736'						Open - Mancos
12797' - 12798'						Open - Mancos
12856' - 12858'						Open - Mancos
12942' - 12944'						Open - Mancos
13053' - 13055'						Open - Mancos
13148' - 13149'						Open - Mancos
13208' - 13210'						Open - Mancos
13267' - 13268'						Open - Mancos
13410' - 13412'						Open - Mancos
13504' - 13505'	Frac w/	23,333	Lbs in	105,630	Gals	Open - Mancos
13598' - 13599'						Open - Mancos
13679' - 13680'						Open - Mancos
13749' - 13751'						Open - Mancos
13812' - 13813'						Open - Mancos
Stage 4 A & B						Screened Out & Repumped
13937' - 13938'						Open - Mancos
14015' - 14016'						Open - Mancos
14103' - 14104'						Open - Mancos
14170' - 14171'						Open - Mancos
14260' - 14262'						Open - Mancos
14340' - 14341'						Open - Mancos
14418' - 14419'	Frac w/	1,213	Lbs in	24,276	Gals	Open - Mancos
14515' - 14516'						Open - Mancos
14588' - 14590'						Open - Mancos
14652' - 14653'						Open - Mancos
14720' - 14721'						Open - Mancos
14778' - 14779'						Open - Mancos
14882' - 14883'						Open - Mancos
14964' - 14965'						Open - Mancos
15073' - 15074'						Open - Mancos
15157' - 15158'						Open - Mancos
15192' - 15194'	Frac w/	35,857	Lbs in	105,378	Gals	Open - Frontier
15265' - 15267'						Open - Frontier
15362' - 15364'						Open - Frontier
15450' - 15452'						Open - Frontier
15526' - 15528'						Open - Frontier

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15631' – 15632'						Open - Frontier
15694' – 15695'						Open - Frontier
15795' – 15796'						Open - Frontier
15906' – 15097'						Open - Frontier
16003' – 16004'	Frac w/	50,152	Lbs in	110,082	Gals	Open - Frontier
16093' – 16095'						Open – Dakota Silt
16164' – 16166'						Open – Dakota Silt
16289' – 16291'						Open – Dakota SS
16322' – 16325'						Open – Dakota SS
16454' – 16495'	Frac w/	22,586	Lbs in	57,036	Gals	Open Hole Dakota 'C'

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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
E	16813	16813	43-047-39663	WV 13D 23 8 21	SWSW	23	8S	21E	Uintah	4/6/08	3/1/09

WELL 1 COMMENTS: **WMMFD**

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4/14/09

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)


Signature

Office Administrator 4/10/09
Title Date

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

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

(3/89)

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DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

5. Lease Serial No.

UTU-025963

6. If Indian, Annette or Tribe Name

UTE TRIBE

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

SUBMIT IN TRIPLICATE - Other instructions on page 2.

1. Type of Well

Oil Well Gas Well Other

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

8. Well Name and No.
WV 13D-23-8-21

2. Name of Operator
QUESTAR EXPLORATION & PRODUCTION CO.

CONTACT: Mike Stahl

9. API Well No.
43-047-39663

3a. Address
11002 EAST 17500 SOUTH, VERNAL, UTAH 84078

3b. Phone No. (include area code)
(303) 308-3613

10. Field and Pool or Exploratory Area
WONSITS VALLEY

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

670' FSL 973' FWL, SWSW, SECTION 23, T8S, R21E

11. Country or Parish, State
UINTAH, 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>COMMINGLING</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.)

In Compliance with the Administrative Utah code for drilling and operating practice R649-3-22, completion into two or more pools. Questar Exploration & Production Company hereby requests the commingling of production between intervals in the WV 13D-23-8-21. Questar considers this commingling to be in the public interest in that it promotes maximum ultimate economic recovery, prevents waste, provides for orderly and efficient production of oil and gas and presents no detrimental effects from commingling the gas streams.

Questar requests approval for the commingling of production of the Dakota to the Wasatch intervals. Based upon offset production logs, the proposed initial allocation is as follows: Dakota - 25%; Mancos - 30%; mesa Verde - 30%; Wasatch - 15%.

On an annual basis the gas will be sampled and a determination will be made of the BTU content and gas constituents. These annual samples can be used to determine if the gas allocation is changing over time. If these samples do not indicate that any adjustments in allocation are necessary they may be discontinued after the fifth anniversary of the initial production.

COPY SENT TO OPERATOR

Date: 5.18.2009

Initials: KS

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

Laura Bills

Title Associate Regulatory Affairs Analyst

Signature

Date 04/20/2009

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title Pet Eng.

Date 5/13/09

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 DOGm

Federal Approval of This Action Is Necessary

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)

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AFFIDAVIT OF NOTICE

STATE OF COLORADO)
) ss:
COUNTY OF DENVER)

Nathan C. Koeniger, being duly sworn, deposes and says:

- 1. That I am employed by Questar Exploration and Production Company in the capacity as a Landman. My business address is:

Independence Plaza
1050 17th Street, Suite 500
Denver, CO 80265

- 2. In my capacity as a Landman, pursuant to the provisions of Utah Administrative Rule 649-3-22, I have provided a copy of Questar Exploration and Production Company's application for completion of the WV 13D-23-8-21 well into two or more pools, in the form of Utah Division of Oil, Gas and Mining's Form 9 Sundry Notice, to owners of all contiguous oil and gas leases or drilling units overlying the pools which are the subject of that application.
- 3. In my capacity as a Landman, I am authorized to provide such notice of Questar Exploration and Production Company's application to contiguous owners and to make this affidavit on this 13th day of April 2009.

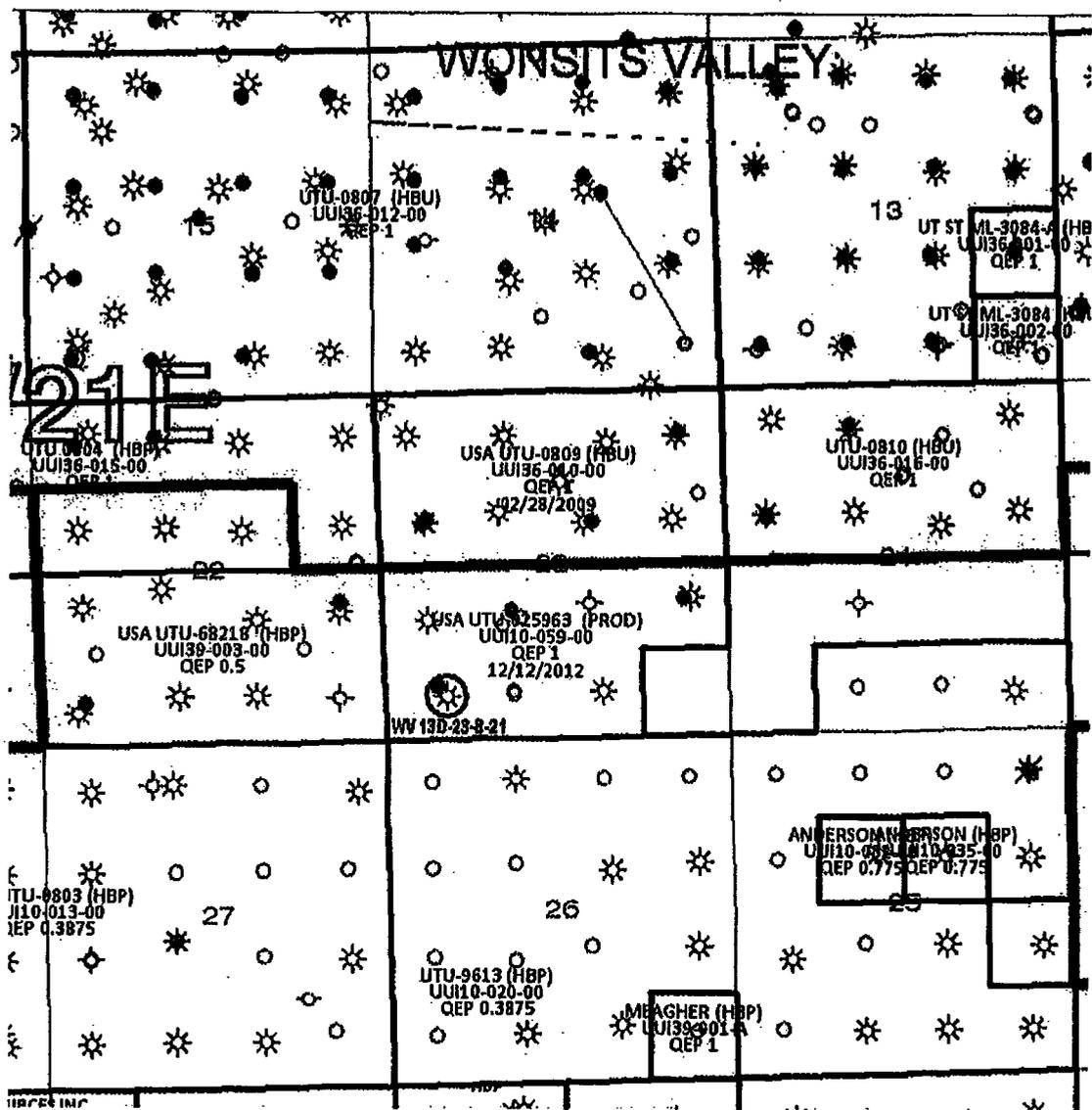
Nathan C. Koeniger
Printed Name: Nathan C. Koeniger

The foregoing instrument was sworn to and subscribed before me this 13th day of April 2009, by Nathan C. Koeniger.

Theresa Chatman
Notary Public

THERESA CHATMAN
-NOTARY PUBLIC-
STATE OF COLORADO

MY COMMISSION EXPIRES: 7/7/11



T8S-R21E

○ Commingled well

<p>Tw/Kmv COMMINGLED PRODUCTION Uinta Basin—Uintah County, Utah</p>	
<p>Well: WV 13D-23-8-21 Lease: UTU 025963</p>	
<p>QUESTAR <i>Exploration and Production</i></p> <p><small>1800 17th St., P.O. Box Denver, CO 80202</small></p>	<p>Geologist:</p>
	<p>Landment Nate Koeniger</p>
	<p>Date: April 7, 2009</p>

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

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

CA No.

Unit:

WELL NAME	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

5. LEASE DESIGNATION AND SERIAL NUMBER:
See attached

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
See attached

7. UNIT or CA AGREEMENT NAME:
See attached

8. WELL NAME and NUMBER:
See attached

9. API NUMBER:
Attached

10. FIELD AND POOL, OR WILDCAT:
See attached

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. TYPE OF WELL
OIL WELL GAS WELL OTHER _____

2. NAME OF OPERATOR:
Questar Exploration and Production Company *N5085*

3. ADDRESS OF OPERATOR:
1050 17th Street, Suite 500 CITY Denver STATE CO ZIP 80265 PHONE NUMBER: (303) 672-6900

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"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <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~~
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) Morgan Anderson TITLE Regulatory Affairs Analyst
SIGNATURE *Morgan Anderson* DATE 6/23/2010

(This space for State use only)

RECEIVED
JUN 28 2010

APPROVED 6/30/2009
Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

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

well_name	sec	tpw	rng	api	entity	mineral lease	type	stat	C
WEST RIVER BEND 3-12-10-15	12	100S	150E	4301331888	14542	Federal	OW	P	C
WEST RIVER BEND 16-17-10-17	17	100S	170E	4301332057	14543	Federal	OW	P	
WEST DESERT SPRING 11-20-10-17	20	100S	170E	4301332088	14545	Federal	OW	S	
GD 8G-35-9-15	35	090S	150E	4301333821		Federal	OW	APD	C
GD 9G-35-9-15	35	090S	150E	4301333822		Federal	OW	APD	C
GD 10G-35-9-15	35	090S	150E	4301333823		Federal	OW	APD	C
GD 11G-35-9-15	35	090S	150E	4301333824		Federal	OW	APD	C
GD 12G-35-9-15	35	090S	150E	4301333825		Federal	OW	APD	C
GD 13G-35-9-15	35	090S	150E	4301333826		Federal	OW	APD	C
GD 1G-34-9-15	34	090S	150E	4301333827	16920	Federal	OW	P	
GD 2G-34-9-15	34	090S	150E	4301333828		Federal	OW	APD	C
GD 7G-34-9-15	34	090S	150E	4301333829		Federal	OW	APD	C
GD 7G-35-9-15	35	090S	150E	4301333830		Federal	OW	APD	C
GD 14G-35-9-15	35	090S	150E	4301333831		Federal	OW	APD	C
GD 15G-35-9-15	35	090S	150E	4301333832		Federal	OW	APD	C
GD 16G-35-9-15	35	090S	150E	4301333833	16921	Federal	OW	P	
GD 1G-35-9-15	35	090S	150E	4301333834		Federal	OW	APD	C
GD 2G-35-9-15	35	090S	150E	4301333835		Federal	OW	APD	C
GD 3G-35-9-15	35	090S	150E	4301333836		Federal	OW	APD	C
GD 4G-35-9-15	35	090S	150E	4301333837		Federal	OW	APD	C
GD 5G-35-9-15	35	090S	150E	4301333838		Federal	OW	APD	C
GD 6G-35-9-15	35	090S	150E	4301333839		Federal	OW	APD	C
GD 8G-34-9-15	34	090S	150E	4301333840		Federal	OW	APD	C
GD 9G-34-9-15	34	090S	150E	4301333841		Federal	OW	APD	C
GD 10G-34-9-15	34	090S	150E	4301333842		Federal	OW	APD	C
GD 15G-34-9-15	34	090S	150E	4301333843		Federal	OW	APD	C
GD 16G-34-9-15	34	090S	150E	4301333844		Federal	OW	APD	C
GOVT 18-2	18	230S	170E	4301930679	2575	Federal	OW	P	
FEDERAL 2-29-7-22	29	070S	220E	4304715423	5266	Federal	GW	TA	
UTAH FED D-1	14	070S	240E	4304715936	10699	Federal	GW	S	
UTAH FED D-2	25	070S	240E	4304715937	9295	Federal	GW	S	
PRINCE 1	10	070S	240E	4304716199	7035	Federal	GW	P	
UTAH FED D-4	14	070S	240E	4304731215	9297	Federal	GW	S	
ISLAND UNIT 16	11	100S	180E	4304731505	1061	Federal	OW	S	
EAST COYOTE FED 14-4-8-25	04	080S	250E	4304732493	11630	Federal	OW	P	
PRINCE 4	03	070S	240E	4304732677	7035	Federal	OW	P	
GH 21 WG	21	080S	210E	4304732692	11819	Federal	GW	P	
OU SG 6-14-8-22	14	080S	220E	4304732746	11944	Federal	GW	S	
FLU KNOLLS FED 23-3	03	100S	180E	4304732754	12003	Federal	OW	P	
GH 22 WG	22	080S	210E	4304732818	12336	Federal	GW	P	
OU GB 12W-20-8-22	20	080S	220E	4304733249	13488	Federal	GW	P	
OU GB 15-18-8-22	18	080S	220E	4304733364	12690	Federal	GW	P	
OU GB 3W-17-8-22	17	080S	220E	4304733513	12950	Federal	GW	P	
OU GB 5W-17-8-22	17	080S	220E	4304733514	12873	Federal	GW	P	
WV 9W-8-8-22	08	080S	220E	4304733515	13395	Federal	GW	P	
OU GB 9W-18-8-22	18	080S	220E	4304733516	12997	Federal	GW	P	
OU GB 3W-20-8-22	20	080S	220E	4304733526	13514	Federal	GW	P	
OU GB 12W-30-8-22	30	080S	220E	4304733670	13380	Federal	GW	P	
WV 10W-8-8-22	08	080S	220E	4304733814	13450	Federal	GW	P	
GH 7W-21-8-21	21	080S	210E	4304733845	13050	Federal	GW	P	
GH 9W-21-8-21	21	080S	210E	4304733846	13074	Federal	GW	P	

Bonds: BLM = ESB000024

BIA = 956010693

State = 965010695

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

well_name	sec	tpw	rng	api	entity	mineral lease	type	stat	C
GH 11W-21-8-21	21	080S	210E	4304733847	13049	Federal	GW	P	
GH 15W-21-8-21	21	080S	210E	4304733848	13051	Federal	GW	P	
WV 2W-9-8-21	09	080S	210E	4304733905	13676	Federal	GW	P	
WV 7W-22-8-21	22	080S	210E	4304733907	13230	Federal	GW	P	
WV 9W-23-8-21	23	080S	210E	4304733909	13160	Federal	GW	P	
GH 14W-20-8-21	20	080S	210E	4304733915	13073	Federal	GW	P	
OU GB 4W-30-8-22	30	080S	220E	4304733945	13372	Federal	GW	P	
OU GB 9W-19-8-22	19	080S	220E	4304733946	13393	Federal	GW	P	
OU GB 10W-30-8-22	30	080S	220E	4304733947	13389	Federal	GW	P	
OU GB 12W-19-8-22	19	080S	220E	4304733948	13388	Federal	GW	P	
GB 9W-25-8-21	25	080S	210E	4304733960	13390	Federal	GW	P	
SU 1W-5-8-22	05	080S	220E	4304733985	13369	Federal	GW	P	
SU 3W-5-8-22	05	080S	220E	4304733987	13321	Federal	OW	S	
SU 7W-5-8-22	05	080S	220E	4304733988	13235	Federal	GW	P	
SU 9W-5-8-22	05	080S	220E	4304733990	13238	Federal	GW	P	
SU 13W-5-8-22	05	080S	220E	4304733994	13236	Federal	GW	TA	
SU 15W-5-8-22	05	080S	220E	4304733996	13240	Federal	GW	P	
WV 8W-8-8-22	08	080S	220E	4304734005	13320	Federal	GW	P	
WV 14W-8-8-22	08	080S	220E	4304734007	13322	Federal	GW	S	
OU GB 6W-20-8-22	20	080S	220E	4304734018	13518	Federal	GW	P	
OU GB 5W-30-8-22	30	080S	220E	4304734025	13502	Federal	GW	P	
OU GB 11W-20-8-22	20	080S	220E	4304734039	13413	Federal	GW	P	
OU GB 4W-20-8-22	20	080S	220E	4304734043	13520	Federal	GW	P	
GH 5W-21-8-21	21	080S	210E	4304734147	13387	Federal	GW	P	
GH 6W-21-8-21	21	080S	210E	4304734148	13371	Federal	GW	P	
GH 8W-21-8-21	21	080S	210E	4304734149	13293	Federal	GW	P	
GH 10W-20-8-21	20	080S	210E	4304734151	13328	Federal	GW	P	
GH 10W-21-8-21	21	080S	210E	4304734152	13378	Federal	GW	P	
GH 12W-21-8-21	21	080S	210E	4304734153	13294	Federal	GW	P	
GH 14W-21-8-21	21	080S	210E	4304734154	13292	Federal	GW	P	
GH 16W-21-8-21	21	080S	210E	4304734157	13329	Federal	GW	P	
WV 2W-3-8-21	03	080S	210E	4304734207	13677	Federal	GW	P	
OU GB 5W-20-8-22	20	080S	220E	4304734209	13414	Federal	GW	P	
WV 6W-22-8-21	22	080S	210E	4304734272	13379	Federal	GW	P	
GH 1W-20-8-21	20	080S	210E	4304734327	13451	Federal	GW	P	
GH 2W-20-8-21	20	080S	210E	4304734328	13527	Federal	GW	P	
GH 3W-20-8-21	20	080S	210E	4304734329	13728	Federal	GW	P	
GH 7W-20-8-21	20	080S	210E	4304734332	13537	Federal	GW	P	
GH 9W-20-8-21	20	080S	210E	4304734333	13411	Federal	GW	P	
GH 11W-20-8-21	20	080S	210E	4304734334	13410	Federal	GW	P	
GH 15W-20-8-21	20	080S	210E	4304734335	13407	Federal	GW	P	
GH 16W-20-8-21	20	080S	210E	4304734336	13501	Federal	GW	P	
WV 12W-23-8-21	23	080S	210E	4304734343	13430	Federal	GW	P	
OU GB 13W-20-8-22	20	080S	220E	4304734348	13495	Federal	GW	P	
OU GB 14W-20-8-22	20	080S	220E	4304734349	13507	Federal	GW	P	
OU GB 11W-29-8-22	29	080S	220E	4304734350	13526	Federal	GW	P	
SU PURDY 14M-30-7-22	30	070S	220E	4304734384	13750	Federal	GW	S	
WVX 11G-5-8-22	05	080S	220E	4304734388	13422	Federal	OW	P	
WVX 13G-5-8-22	05	080S	220E	4304734389	13738	Federal	OW	P	
WVX 15G-5-8-22	05	080S	220E	4304734390	13459	Federal	OW	P	
SU BRENNAN W 15W-18-7-22	18	070S	220E	4304734403	13442	Federal	GW	TA	

Bonds: BLM = ESB000024

BIA = 956010693

State = 965010695

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

well_name	sec	tpw	rng	api	entity	mineral lease	type	stat	C
SU 16W-5-8-22	05	080S	220E	4304734446	13654	Federal	GW	P	
SU 2W-5-8-22	05	080S	220E	4304734455	13700	Federal	GW	P	
SU 10W-5-8-22	05	080S	220E	4304734456	13540	Federal	GW	P	
WV 16W-8-8-22	08	080S	220E	4304734470	13508	Federal	GW	P	
OU GB 16WX-30-8-22	30	080S	220E	4304734506	13431	Federal	GW	P	
OU GB 1W-19-8-22	19	080S	220E	4304734512	13469	Federal	GW	P	
OU GB 2W-19-8-22	19	080S	220E	4304734513	13461	Federal	GW	P	
OU GB 5W-19-8-22	19	080S	220E	4304734514	13460	Federal	GW	P	
OU GB 7W-19-8-22	19	080S	220E	4304734515	13462	Federal	GW	P	
OU GB 8W-19-8-22	19	080S	220E	4304734516	13489	Federal	GW	P	
OU GB 11W-19-8-22	19	080S	220E	4304734517	13467	Federal	GW	P	
OU GB 16W-19-8-22	19	080S	220E	4304734522	13476	Federal	GW	P	
OU GB 1W-30-8-22	30	080S	220E	4304734528	13487	Federal	GW	S	
OU GB 3W-30-8-22	30	080S	220E	4304734529	13493	Federal	GW	P	
OU GB 6W-30-8-22	30	080S	220E	4304734530	13519	Federal	GW	P	
OU GB 7W-30-8-22	30	080S	220E	4304734531	13494	Federal	GW	P	
OU GB 8W-30-8-22	30	080S	220E	4304734532	13483	Federal	GW	P	
OU GB 9W-30-8-22	30	080S	220E	4304734533	13500	Federal	GW	P	
OU GB 6W-19-8-22	19	080S	220E	4304734534	13475	Federal	GW	P	
OU GB 10W-19-8-22	19	080S	220E	4304734535	13479	Federal	GW	P	
OU GB 13W-19-8-22	19	080S	220E	4304734536	13478	Federal	GW	P	
OU GB 14W-19-8-22	19	080S	220E	4304734537	13484	Federal	GW	P	
OU GB 15W-19-8-22	19	080S	220E	4304734538	13482	Federal	GW	P	
OU GB 12W-17-8-22	17	080S	220E	4304734542	13543	Federal	GW	P	
OU GB 6W-17-8-22	17	080S	220E	4304734543	13536	Federal	GW	P	
OU GB 13W-17-8-22	17	080S	220E	4304734544	13547	Federal	GW	P	
OU GB 6W-29-8-22	29	080S	220E	4304734545	13535	Federal	GW	P	
OU GB 3W-29-8-22	29	080S	220E	4304734546	13509	Federal	GW	P	
OU GB 13W-29-8-22	29	080S	220E	4304734547	13506	Federal	GW	P	
OU GB 4W-29-8-22	29	080S	220E	4304734548	13534	Federal	GW	P	
OU GB 5W-29-8-22	29	080S	220E	4304734549	13505	Federal	GW	P	
OU GB 14W-17-8-22	17	080S	220E	4304734550	13550	Federal	GW	P	
OU GB 11W-17-8-22	17	080S	220E	4304734553	13671	Federal	GW	P	
OU GB 14W-29-8-22	29	080S	220E	4304734554	13528	Federal	GW	P	
OU GB 2W-17-8-22	17	080S	220E	4304734559	13539	Federal	GW	P	
OU GB 7W-17-8-22	17	080S	220E	4304734560	13599	Federal	GW	P	
OU GB 16W-18-8-22	18	080S	220E	4304734563	13559	Federal	GW	P	
OU GB 1W-29-8-22	29	080S	220E	4304734573	13562	Federal	GW	P	
OU GB 7W-29-8-22	29	080S	220E	4304734574	13564	Federal	GW	P	
OU GB 8W-29-8-22	29	080S	220E	4304734575	13609	Federal	GW	S	
OU GB 9W-29-8-22	29	080S	220E	4304734576	13551	Federal	GW	P	
OU GB 10W-29-8-22	29	080S	220E	4304734577	13594	Federal	GW	P	
OU GB 15W-29-8-22	29	080S	220E	4304734578	13569	Federal	GW	P	
OU GB 2W-20-8-22	20	080S	220E	4304734599	13664	Federal	GW	P	
OU GB 2W-29-8-22	29	080S	220E	4304734600	13691	Federal	GW	P	
OU GB 15W-17-8-22	17	080S	220E	4304734601	13632	Federal	GW	P	
OU GB 16W-17-8-22	17	080S	220E	4304734602	13639	Federal	GW	P	
OU GB 16W-29-8-22	29	080S	220E	4304734603	13610	Federal	GW	P	
OU GB 1W-20-8-22	20	080S	220E	4304734604	13612	Federal	GW	P	
OU GB 1W-17-8-22	17	080S	220E	4304734623	13701	Federal	GW	P	
OU GB 9W-17-8-22	17	080S	220E	4304734624	13663	Federal	GW	P	

Bonds: BLM = ESB000024

BIA = 956010693

State = 965010695

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

well_name	sec	tpw	rng	api	entity	mineral lease	type	stat	C
OU GB 10W-17-8-22	17	080S	220E	4304734625	13684	Federal	GW	P	
OU GB 9W-20-8-22	20	080S	220E	4304734630	13637	Federal	GW	P	
OU GB 10W-20-8-22	20	080S	220E	4304734631	13682	Federal	GW	P	
OU GB 15W-20-8-22	20	080S	220E	4304734632	13613	Federal	GW	P	
OU WIH 15MU-21-8-22	21	080S	220E	4304734634	13991	Federal	GW	P	
OU WIH 13W-21-8-22	21	080S	220E	4304734646	13745	Federal	GW	P	
OU GB 11W-15-8-22	15	080S	220E	4304734648	13822	Federal	GW	P	
OU GB 13W-9-8-22	09	080S	220E	4304734654	13706	Federal	GW	P	
OU WIH 14W-21-8-22	21	080S	220E	4304734664	13720	Federal	GW	P	
OU GB 12WX-29-8-22	29	080S	220E	4304734668	13555	Federal	GW	P	
OU WIH 10W-21-8-22	21	080S	220E	4304734681	13662	Federal	GW	P	
OU GB 4G-21-8-22	21	080S	220E	4304734685	13772	Federal	OW	P	
OU GB 3W-21-8-22	21	080S	220E	4304734686	13746	Federal	GW	P	
OU GB 16SG-30-8-22	30	080S	220E	4304734688	13593	Federal	GW	P	
OU WIH 7W-21-8-22	21	080S	220E	4304734689	13716	Federal	GW	P	
OU GB 5W-21-8-22	21	080S	220E	4304734690	13770	Federal	GW	P	
WIH 1MU-21-8-22	21	080S	220E	4304734693	14001	Federal	GW	P	
OU GB 5G-19-8-22	19	080S	220E	4304734695	13786	Federal	OW	P	
OU GB 7W-20-8-22	20	080S	220E	4304734705	13710	Federal	GW	P	
OU SG 14W-15-8-22	15	080S	220E	4304734710	13821	Federal	GW	P	
OU SG 15W-15-8-22	15	080S	220E	4304734711	13790	Federal	GW	P	
OU SG 16W-15-8-22	15	080S	220E	4304734712	13820	Federal	GW	P	
OU SG 4W-15-8-22	15	080S	220E	4304734713	13775	Federal	GW	P	
OU SG 12W-15-8-22	15	080S	220E	4304734714	13838	Federal	GW	P	
OU GB 5MU-15-8-22	15	080S	220E	4304734715	13900	Federal	GW	P	
OU SG 8W-15-8-22	15	080S	220E	4304734717	13819	Federal	GW	P	
OU SG 9W-15-8-22	15	080S	220E	4304734718	13773	Federal	GW	P	
OU SG 10W-15-8-22	15	080S	220E	4304734719	13722	Federal	GW	P	
OU SG 2MU-15-8-22	15	080S	220E	4304734721	13887	Federal	GW	P	
OU SG 7W-15-8-22	15	080S	220E	4304734722	13920	Federal	GW	P	
OU GB 14SG-29-8-22	29	080S	220E	4304734743	14034	Federal	GW	P	
OU GB 16SG-29-8-22	29	080S	220E	4304734744	13771	Federal	GW	P	
OU GB 13W-10-8-22	10	080S	220E	4304734754	13774	Federal	GW	P	
OU GB 6MU-21-8-22	21	080S	220E	4304734755	14012	Federal	GW	P	
OU SG 10W-10-8-22	10	080S	220E	4304734764	13751	Federal	GW	P	
OU GB 14M-10-8-22	10	080S	220E	4304734768	13849	Federal	GW	P	
OU SG 9W-10-8-22	10	080S	220E	4304734783	13725	Federal	GW	P	
OU SG 16W-10-8-22	10	080S	220E	4304734784	13781	Federal	GW	P	
SU BW 6M-7-7-22	07	070S	220E	4304734837	13966	Federal	GW	P	
GB 3M-27-8-21	27	080S	210E	4304734900	14614	Federal	GW	P	
WVX 11D-22-8-21	22	080S	210E	4304734902	14632	Federal	GW	P	
GB 11M-27-8-21	27	080S	210E	4304734952	13809	Federal	GW	P	
GB 9D-27-8-21	27	080S	210E	4304734956	14633	Federal	GW	P	
GB 1D-27-8-21	27	080S	210E	4304734957	14634	Federal	GW	P	
WRU EIH 2M-35-8-22	35	080S	220E	4304735052	13931	Federal	GW	P	
GH 12MU-20-8-21	20	080S	210E	4304735069	14129	Federal	GW	P	
OU SG 4W-11-8-22	11	080S	220E	4304735071	14814	Federal	GW	OPS	C
OU SG 5W-11-8-22	11	080S	220E	4304735072	14815	Federal	GW	OPS	C
SG 6ML-11-8-22	11	080S	220E	4304735073	14825	Federal	GW	P	
OU SG 5MU-14-8-22	14	080S	220E	4304735076	13989	Federal	GW	P	
OU SG 6MU-14-8-22	14	080S	220E	4304735077	14128	Federal	GW	P	

Bonds: BLM = ESB000024

BIA = 956010693

State = 965010695

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

well_name	sec	tpw	rng	api	entity	mineral lease	type	stat	C
SG 12MU-14-8-22	14	080S	220E	4304735078	13921	Federal	GW	P	
OU SG 13MU-14-8-22	14	080S	220E	4304735079	13990	Federal	GW	P	
OU SG 9MU-11-8-22	11	080S	220E	4304735091	13967	Federal	GW	P	
SG 11SG-23-8-22	23	080S	220E	4304735099	13901	Federal	GW	TA	
OU SG 14W-11-8-22	11	080S	220E	4304735114	14797	Federal	GW	OPS	C
SG 5MU-23-8-22	23	080S	220E	4304735115	14368	Federal	GW	P	
SG 6MU-23-8-22	23	080S	220E	4304735116	14231	Federal	GW	P	
SG 14MU-23-8-22	23	080S	220E	4304735117	14069	Federal	GW	P	
SG 12MU-23-8-22	23	080S	220E	4304735188	14412	Federal	GW	P	
SG 13MU-23-8-22	23	080S	220E	4304735190	14103	Federal	GW	P	
WH 7G-10-7-24	10	070S	240E	4304735241	14002	Federal	GW	S	
GB 4D-28-8-21	28	080S	210E	4304735246	14645	Federal	GW	P	
GB 7M-28-8-21	28	080S	210E	4304735247	14432	Federal	GW	P	
GB 14M-28-8-21	28	080S	210E	4304735248	13992	Federal	GW	P	
SG 11MU-23-8-22	23	080S	220E	4304735257	13973	Federal	GW	P	
SG 15MU-14-8-22	14	080S	220E	4304735328	14338	Federal	GW	P	
EIHX 14MU-25-8-22	25	080S	220E	4304735330	14501	Federal	GW	P	
EIHX 11MU-25-8-22	25	080S	220E	4304735331	14470	Federal	GW	P	
NBE 12ML-10-9-23	10	090S	230E	4304735333	14260	Federal	GW	P	
NBE 13ML-17-9-23	17	090S	230E	4304735334	14000	Federal	GW	P	
NBE 4ML-26-9-23	26	090S	230E	4304735335	14215	Federal	GW	P	
SG 7MU-11-8-22	11	080S	220E	4304735374	14635	Federal	GW	S	
SG 1MU-11-8-22	11	080S	220E	4304735375	14279	Federal	GW	P	
OU SG 13W-11-8-22	11	080S	220E	4304735377	14796	Federal	GW	OPS	C
SG 3MU-11-8-22	11	080S	220E	4304735379	14978	Federal	GW	P	
SG 8MU-11-8-22	11	080S	220E	4304735380	14616	Federal	GW	P	
SG 2MU-11-8-22	11	080S	220E	4304735381	14636	Federal	GW	P	
SG 10MU-11-8-22	11	080S	220E	4304735382	14979	Federal	GW	P	
SU 11MU-9-8-21	09	080S	210E	4304735412	14143	Federal	GW	P	
OU GB 8MU-10-8-22	10	080S	220E	4304735422	15321	Federal	GW	OPS	C
EIHX 2MU-25-8-22	25	080S	220E	4304735427	14666	Federal	GW	P	
EIHX 1MU-25-8-22	25	080S	220E	4304735428	14705	Federal	GW	P	
EIHX 7MU-25-8-22	25	080S	220E	4304735429	14682	Federal	GW	P	
EIHX 8MU-25-8-22	25	080S	220E	4304735430	14706	Federal	GW	P	
EIHX 9MU-25-8-22	25	080S	220E	4304735433	14558	Federal	GW	P	
EIHX 16MU-25-8-22	25	080S	220E	4304735434	14502	Federal	GW	P	
EIHX 15MU-25-8-22	25	080S	220E	4304735435	14571	Federal	GW	P	
EIHX 10MU-25-8-22	25	080S	220E	4304735436	14537	Federal	GW	P	
GB 3MU-3-8-22	03	080S	220E	4304735457	14575	Federal	GW	P	
NBE 15M-17-9-23	17	090S	230E	4304735463	14423	Federal	GW	P	
NBE 7ML-17-9-23	17	090S	230E	4304735464	14232	Federal	GW	P	
NBE 3ML-17-9-23	17	090S	230E	4304735465	14276	Federal	GW	P	
NBE 11M-17-9-23	17	090S	230E	4304735466	14431	Federal	GW	P	
NBE 10ML-10-9-23	10	090S	230E	4304735650	14377	Federal	GW	P	
NBE 6ML-10-9-23	10	090S	230E	4304735651	14422	Federal	GW	P	
NBE 12ML-17-9-23	17	090S	230E	4304735652	14278	Federal	GW	P	
NBE 6ML-26-9-23	26	090S	230E	4304735664	14378	Federal	GW	P	
NBE 11ML-26-9-23	26	090S	230E	4304735665	14340	Federal	GW	P	
NBE 15ML-26-9-23	26	090S	230E	4304735666	14326	Federal	GW	P	
SG 4MU-23-8-22	23	080S	220E	4304735758	14380	Federal	GW	P	
SG 11MU-14-8-22	14	080S	220E	4304735829	14486	Federal	GW	P	

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

well_name	sec	twp	rng	api	entity	mineral lease	type	stat	C
RB DS FED 1G-7-10-18	07	100S	180E	4304735932	14457	Federal	OW	S	
RB DS FED 14G-8-10-18	08	100S	180E	4304735933	14433	Federal	OW	P	
OU SG 14MU-14-8-22	14	080S	220E	4304735950	14479	Federal	GW	P	
COY 12ML-24-8-24	24	080S	240E	4304736039	14592	Federal	OW	P	
WIH 1AMU-21-8-22	21	080S	220E	4304736060	14980	Federal	GW	P	
SU 8M-12-7-21	12	070S	210E	4304736096	16610	Federal	GW	OPS	C
NBE 4ML-10-9-23	10	090S	230E	4304736098	15732	Federal	GW	P	
NBE 8ML-10-9-23	10	090S	230E	4304736099	15733	Federal	GW	P	
NBE 16ML-10-9-23	10	090S	230E	4304736100	14728	Federal	GW	S	
SUBW 14M-7-7-22	07	070S	220E	4304736136	15734	Federal	GW	P	
NBE 8ML-12-9-23	12	090S	230E	4304736143	15859	Federal	GW	S	
GB 16D-28-8-21	28	080S	210E	4304736260	14981	Federal	GW	P	
NBE 5ML-10-9-23	10	090S	230E	4304736353	15227	Federal	GW	P	
NBE 7ML-10-9-23	10	090S	230E	4304736355	15850	Federal	GW	P	
NBE 3ML-10-9-23	10	090S	230E	4304736356	15393	Federal	GW	P	
EIHX 4MU-36-8-22	36	080S	220E	4304736444	14875	Federal	GW	P	
EIHX 3MU-36-8-22	36	080S	220E	4304736445	14860	Federal	GW	P	
EIHX 2MU-36-8-22	36	080S	220E	4304736446	14840	Federal	GW	S	
EIHX 1MU-36-8-22	36	080S	220E	4304736447	14861	Federal	GW	P	
NBE 7ML-26-9-23	26	090S	230E	4304736587	16008	Federal	GW	P	
NBE 8ML-26-9-23	26	090S	230E	4304736588	15689	Federal	GW	P	
NBE 1ML-26-9-23	26	090S	230E	4304736589	15880	Federal	GW	P	
NBE 2ML-26-9-23	26	090S	230E	4304736590	15898	Federal	GW	S	
NBE 3ML-26-9-23	26	090S	230E	4304736591	15906	Federal	GW	P	
NBE 5ML-26-9-23	26	090S	230E	4304736592	15839	Federal	GW	P	
NBE 9ML-10-9-23	10	090S	230E	4304736593	15438	Federal	GW	P	
NBE 11ML-10-9-23	10	090S	230E	4304736594	15228	Federal	GW	P	
NBE 15ML-10-9-23	10	090S	230E	4304736595	15439	Federal	GW	P	
NBE 2ML-17-9-23	17	090S	230E	4304736614	15126	Federal	GW	P	
NBE 4ML-17-9-23	17	090S	230E	4304736615	15177	Federal	GW	P	
NBE 6ML-17-9-23	17	090S	230E	4304736616	15127	Federal	GW	S	
NBE 10ML-17-9-23	17	090S	230E	4304736617	15128	Federal	GW	P	
NBE 14ML-17-9-23	17	090S	230E	4304736618	15088	Federal	GW	P	
NBE 9ML-26-9-23	26	090S	230E	4304736619	15322	Federal	GW	P	
NBE 10D-26-9-23	26	090S	230E	4304736620	15975	Federal	GW	S	
NBE 12ML-26-9-23	26	090S	230E	4304736621	15840	Federal	GW	P	
NBE 13ML-26-9-23	26	090S	230E	4304736622	15690	Federal	GW	P	
NBE 14ML-26-9-23	26	090S	230E	4304736623	15262	Federal	GW	P	
NBE 16ML-26-9-23	26	090S	230E	4304736624	15735	Federal	GW	P	
WF 1P-1-15-19	06	150S	200E	4304736781	14862	Indian	GW	P	
SG 3MU-23-8-22	14	080S	220E	4304736940	15100	Federal	GW	P	
NBE 5ML-17-9-23	17	090S	230E	4304736941	15101	Federal	GW	P	
TU 14-9-7-22	09	070S	220E	4304737345	16811	Federal	GW	OPS	C
WF 14C-29-15-19	29	150S	190E	4304737541	15178	Indian	GW	P	
NBE 2ML-10-9-23	10	090S	230E	4304737619	15860	Federal	GW	P	
GB 16ML-20-8-22	20	080S	220E	4304737664	15948	Federal	GW	P	
WVX 8ML-5-8-22	05	080S	220E	4304738140		Federal	GW	APD	C
WVX 6ML-5-8-22	05	080S	220E	4304738141		Federal	GW	APD	C
WVX 1MU-17-8-21	17	080S	210E	4304738156		Federal	GW	APD	C
GH 8-20-8-21	20	080S	210E	4304738157		Federal	GW	APD	C
WVX 4MU-17-8-21	17	080S	210E	4304738190		Federal	GW	APD	C

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

well_name	sec	tpw	rng	api	entity	mineral lease	type	stat	C
WVX 16MU-18-8-21	18	080S	210E	4304738191		Federal	GW	APD	C
GH 7D-19-8-21	19	080S	210E	4304738267	16922	Federal	GW	P	
WF 8C-15-15-19	15	150S	190E	4304738405	17142	Indian	GW	OPS	C
WVX 1MU-18-8-21	18	080S	210E	4304738659		Federal	GW	APD	C
WVX 9MU-18-8-21	18	080S	210E	4304738660		Federal	GW	APD	C
GB 12SG-29-8-22	29	080S	220E	4304738766	16096	Federal	GW	S	
GB 10SG-30-8-22	30	080S	220E	4304738767	16143	Federal	GW	S	
FR 14P-20-14-20	20	140S	200E	4304739168	16179	Federal	GW	P	
SU 11M-8-7-22	08	070S	220E	4304739175		Federal	GW	APD	C
HB 2M-9-7-22	09	070S	220E	4304739176		Federal	GW	APD	C
SUMA 4M-20-7-22	20	070S	220E	4304739177		Federal	GW	APD	C
SU 16M-31-7-22	31	070S	220E	4304739178		Federal	GW	APD	C
FR 13P-20-14-20	20	140S	200E	4304739226	16719	Federal	GW	P	
SG 11BML-23-8-22	23	080S	220E	4304739230		Federal	GW	APD	C
SG 12DML-23-8-22	23	080S	220E	4304739231		Federal	GW	APD	C
GB 1CML-29-8-22	29	080S	220E	4304739232		Federal	GW	APD	C
NBE 8CD-10-9-23	10	090S	230E	4304739341	16513	Federal	GW	P	
NBE 15AD-10-9-23	10	090S	230E	4304739342		Federal	GW	APD	C
NBE 6DD-10-9-23	10	090S	230E	4304739343		Federal	GW	APD	C
NBE 6AD-10-9-23	10	090S	230E	4304739344		Federal	GW	APD	C
NBE 6BD-10-9-23	10	090S	230E	4304739345		Federal	GW	APD	C
NBE 5DD-10-9-23	10	090S	230E	4304739346	16574	Federal	GW	P	
NBE 7BD-17-9-23	17	090S	230E	4304739347		Federal	GW	APD	C
NBE 4DD-17-9-23	17	090S	230E	4304739348	16743	Federal	GW	P	
NBE 10CD-17-9-23	17	090S	230E	4304739349	16616	Federal	GW	P	
NBE 11CD-17-9-23	17	090S	230E	4304739350		Federal	GW	APD	C
NBE 8BD-26-9-23	26	090S	230E	4304739351	16617	Federal	GW	P	
NBE 3DD-26-9-23	26	090S	230E	4304739352		Federal	GW	APD	C
NBE 3CD-26-9-23	26	090S	230E	4304739353		Federal	GW	APD	C
NBE 7DD-26-9-23	26	090S	230E	4304739354		Federal	GW	APD	C
NBE 12AD-26-9-23	26	090S	230E	4304739355		Federal	GW	APD	C
NBE 5DD-26-9-23	26	090S	230E	4304739356		Federal	GW	APD	C
NBE 13AD-26-9-23	26	090S	230E	4304739357		Federal	GW	APD	C
NBE 14AD-26-9-23	26	090S	230E	4304739358		Federal	GW	APD	C
NBE 9CD-26-9-23	26	090S	230E	4304739359		Federal	GW	APD	C
FR 9P-20-14-20	20	140S	200E	4304739461	17025	Federal	GW	S	
FR 13P-17-14-20	17	140S	200E	4304739462		Federal	GW	APD	C
FR 9P-17-14-20	17	140S	200E	4304739463	16829	Federal	GW	P	
FR 10P-20-14-20	20	140S	200E	4304739465		Federal	GW	APD	C
FR 5P-17-14-20	17	140S	200E	4304739509		Federal	GW	APD	C
FR 15P-17-14-20	17	140S	200E	4304739510		Federal	GW	APD	C
FR 11P-20-14-20	20	140S	200E	4304739587		Federal	GW	APD	
FR 5P-20-14-20	20	140S	200E	4304739588		Federal	GW	APD	C
FR 9P-21-14-20	21	140S	200E	4304739589		Federal	GW	APD	C
FR 13P-21-14-20	21	140S	200E	4304739590		Federal	GW	APD	C
GB 7D-27-8-21	27	080S	210E	4304739661		Federal	GW	APD	C
GB 15D-27-8-21	27	080S	210E	4304739662	16830	Federal	GW	P	
WV 13D-23-8-21	23	080S	210E	4304739663	16813	Federal	GW	P	
WV 15D-23-8-21	23	080S	210E	4304739664	16924	Federal	GW	P	
FR 14P-17-14-20	17	140S	200E	4304739807		Federal	GW	APD	C
FR 12P-20-14-20	20	140S	200E	4304739808		Federal	GW	APD	C

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

well_name	sec	twp	rng	api	entity	mineral lease	type	stat	C
FR 6P-20-14-20	20	140S	200E	4304739809	16925	Federal	GW	P	
FR 3P-21-14-20	21	140S	200E	4304739810		Federal	GW	APD	C
FR 4P-21-14-20	21	140S	200E	4304739811	16771	Federal	GW	P	
FR 8P-21-14-20	21	140S	200E	4304739812		Federal	GW	APD	C
FR 15P-21-14-20	21	140S	200E	4304739815		Federal	GW	APD	C
FR 2P-20-14-20	20	140S	200E	4304740053		Federal	GW	APD	
FR 2P-21-14-20	21	140S	200E	4304740200		Federal	GW	APD	C
WV 11-23-8-21	23	080S	210E	4304740303		Federal	GW	APD	C
GB 12-27-8-21	27	080S	210E	4304740304		Federal	GW	APD	C
GH 11C-20-8-21	20	080S	210E	4304740352		Federal	GW	APD	C
GH 15A-20-8-21	20	080S	210E	4304740353		Federal	GW	APD	C
GH 10BD-21-8-21	21	080S	210E	4304740354		Federal	GW	APD	C
FR 11P-21-14-20	21	140S	200E	4304740366		Federal	GW	APD	C
MELANGE U 1	09	140S	200E	4304740399		Federal	GW	APD	C
OP 16G-12-7-20	12	070S	200E	4304740481	17527	Federal	OW	DRL	C
OP 4G-12-7-20	12	070S	200E	4304740482		Federal	OW	APD	C
WF 8D-21-15-19	21	150S	190E	4304740489		Indian	GW	APD	C
WF 15-21-15-19	21	150S	190E	4304740490		Indian	GW	APD	
WF 4D-22-15-19	22	150S	190E	4304740491		Indian	GW	APD	C

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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

Roy 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