

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

FORM 3

AMENDED REPORT

<b>APPLICATION FOR PERMIT TO DRILL</b>						<b>1. WELL NAME and NUMBER</b> RW 23A-28B							
<b>2. TYPE OF WORK</b> DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						<b>3. FIELD OR WILDCAT</b> RED WASH							
<b>4. TYPE OF WELL</b> Gas Well      Coalbed Methane Well: NO						<b>5. UNIT or COMMUNITIZATION AGREEMENT NAME</b> RED WASH							
<b>6. NAME OF OPERATOR</b> QEP ENERGY COMPANY						<b>7. OPERATOR PHONE</b> 303 308-3068							
<b>8. ADDRESS OF OPERATOR</b> 11002 East 17500 South, Vernal, Ut, 84078						<b>9. OPERATOR E-MAIL</b> debbie.stanberry@questar.com							
<b>10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)</b> UTU02025			<b>11. MINERAL OWNERSHIP</b> FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			<b>12. SURFACE OWNERSHIP</b> FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>							
<b>13. NAME OF SURFACE OWNER (if box 12 = 'fee')</b>						<b>14. SURFACE OWNER PHONE (if box 12 = 'fee')</b>							
<b>15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')</b>						<b>16. SURFACE OWNER E-MAIL (if box 12 = 'fee')</b>							
<b>17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')</b>			<b>18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS</b> YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			<b>19. SLANT</b> VERTICAL <input checked="" type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/>							
<b>20. LOCATION OF WELL</b>		<b>FOOTAGES</b>		<b>QTR-QTR</b>		<b>SECTION</b>		<b>TOWNSHIP</b>		<b>RANGE</b>		<b>MERIDIAN</b>	
LOCATION AT SURFACE		1097 FSL 2511 FWL		SESW		28		7.0 S		23.0 E		S	
Top of Uppermost Producing Zone		1097 FSL 2511 FWL		SESW		28		7.0 S		23.0 E		S	
At Total Depth		1097 FSL 2511 FWL		SESW		28		7.0 S		23.0 E		S	
<b>21. COUNTY</b> UINTAH			<b>22. DISTANCE TO NEAREST LEASE LINE (Feet)</b> 1097			<b>23. NUMBER OF ACRES IN DRILLING UNIT</b> 20							
<b>27. ELEVATION - GROUND LEVEL</b> 5542			<b>25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)</b> 750			<b>26. PROPOSED DEPTH</b> MD: 11104 TVD: 11104							
<b>28. BOND NUMBER</b> ESB000024			<b>29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE</b> A-36125/ 49-2153										
<b>Hole, Casing, and Cement Information</b>													
<b>String</b>	<b>Hole Size</b>	<b>Casing Size</b>	<b>Length</b>	<b>Weight</b>	<b>Grade &amp; Thread</b>	<b>Max Mud Wt.</b>	<b>Cement</b>			<b>Sacks</b>	<b>Yield</b>	<b>Weight</b>	
<b>Surf</b>	12.25	9.625	0 - 3804	36.0	N-80 LT&C	0.0	Halliburton Light , Type Unknown			460	3.12	11.0	
							Halliburton Premium , Type Unknown			270	1.47	13.5	
<b>Prod</b>	7.875	4.5	0 - 11104	11.6	HCP-110 LT&C	10.5	Halliburton Light , Type Unknown			600	3.18	11.0	
							Halliburton Premium , Type Unknown			530	1.65	13.5	
<b>ATTACHMENTS</b>													
<b>VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES</b>													
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER						<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN							
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)						<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER							
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)						<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP							
<b>NAME</b> Valyn Davis				<b>TITLE</b> Regulatory Affairs Analyst				<b>PHONE</b> 435 781-4369					
<b>SIGNATURE</b>				<b>DATE</b> 06/28/2011				<b>EMAIL</b> Valyn.Davis@qepres.com					
<b>API NUMBER ASSIGNED</b> 43047517220000				<b>APPROVAL</b>   Permit Manager									

**QEP Energy Company**  
**RW 23A-28B**  
**Summarized Drilling Procedure**

1. Construct location per plat.
2. MIRU air drilling rig.
3. Pre-set conductor.
4. Nipple up diverter system.
5. Drill 12-1/4" hole to 3,804' with air/mist.
6. RIH with 9-5/8" 36# N-80 casing and cement same per program.
7. RDMO air drilling rig.
8. MIRU conventional drilling rig.
9. NU and test 5M BOPE.
10. Drill out of 9-5/8" shoe and down to 11,104' using conventional mud systems.
11. Log well. Triple or Quad-Combo (GR, NEU/DEN, IND, RES, SON)
12. RIH with 4-1/2" 11.6# HCP-110 casing and cement same per program.
13. Pressure test casing.
14. ND BOP's and NU remainder of wellhead. Set BPV.
15. RDMO.

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ONSHORE OIL & GAS ORDER NO. 1  
QEP ENERGY COMPANY  
RW 23A-28B

## DRILLING PROGRAM

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

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

#### 1. Formation Tops

The estimated top of important geologic markers are as follows:

<u>Formation</u>	<u>Depth, TVD &amp; MD</u>
Green River	2,924'
Mahogany	3,754'
Wasatch	6,274'
Mesaverde	8,564'
Sego	11,004'
TD	11,104'

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

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

<u>Substance</u>	<u>Formation</u>	<u>Depth, TVD &amp; MD</u>
Oil	Green River	2,924'
Gas	Wasatch	6,274'
Gas	Mesaverde	8,564'
Gas	Sego	11,004'

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

All water shows and water-bearing sands will be reported to the BLM in Vernal, Utah. Copies of State of Utah form OGC-8-X are acceptable. If flows are detected, samples will be submitted to the BLM along with any water analyses conducted. Fresh water will be obtained from Wonsits Valley water right A36125

ONSHORE OIL & GAS ORDER NO. 1  
 QEP ENERGY COMPANY  
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(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. An 11" 5000 psi double ram with blind rams and pipe rams, annular preventer and drilling spool or BOP with 2 side outlets.
- B. All BOP connections subject to pressure shall be flanged, welded or clamped.
- C. Kill line (2" min), 2 choke line valves (3" min), choke line (3" min), 2 kill line valves (2" min) and a check valve, 2 chokes with one remotely controlled from rig floor and a pressure gauge on choke manifold.
- D. Upper and Lower Kelly cock valves with handles and safety valve and subs to fit all drill string connections.
- E. IBOP or float sub available.
- F. Fill up line must be installed above the uppermost preventer.
- G. 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 5M system and individual components shall be operable as designed.

**4. Casing Design:**

Hole Size	Csg. Size	Top (MD)	Bottom (MD)	Wt.	Grade	Thread	Cond.	Expected MW(ppg)
17 1/2"	14"	Sfc	60'	Steel	Conductor	None	Used	N/A
12-1/4"	9-5/8"	Sfc	3,804'	36#	N-80	LTC	New	Air
7 7/8"	4-1/2"	Sfc	11,104'	11.6#	HCP-110	LTC	New	10.5

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Casing Strengths:				Collapse	Burst	Tensile (min)
9-5/8"	36#	N-80	LTC	2,370 psi	5,120 psi	820,000 lb.
4 1/2"	11.6#	HCP-110	LTC	8,830 psi	10,710 psi	279,000 lb.

### **Casing Design Factors**

\*The casing prescribed above meets or exceeds the below listed design factors.

Burst: 1.2

Collapse: 1.2

Tension: 1.6

Maximum anticipated mud weight: 10.5 ppg

Maximum anticipated surface treating pressure: 7,200 psi

## 5. **Cementing Program**

### **9-5/8" Surface Casing:**

**Lead Slurry: Surface (TOC) – 3,000'.** 460 sks (1409 ft<sup>3</sup>) Halliburton Extendacem, 1 pps Granulite TR 1/4, 0.125 pps Poly-E-Flake, Slurry Weight 11.0 ppg, 3.12 ft<sup>3</sup>/sk, 50% XS in open hole only.

**Tail Slurry: 3,000' – 3,804'.** 270 sx (395 ft<sup>3</sup>) Halliburton Econocem, 0.2% HR-5 Retarder, 1.0 pps Granulite TR 1/4, 0.125 pps Poly-E-Flake, Slurry Weight 13.5 ppg, 1.47 ft<sup>3</sup>/sk, 50% XS in open hole.

### **4-1/2" Production Casing\*:**

**Lead Slurry: 3,000' (TOC) – 8,564'.** 600 sks (1887 ft<sup>3</sup>) Halliburton Extendacem, 1 pps Granulite 1/4, 0.125 pps Poly-E-Flake. Slurry Weight 11.0 lb/gal, 3.18 ft<sup>3</sup>/sk, 50% excess over gauge in open hole only.

**Tail Slurry: 8,564' – 11,104'.** 530 sks (871 ft<sup>3</sup>), Halliburton Expandacem, 0.3% Super CBL (Expander), 0.6% HR-800 (Retarder), 1 pps Granulite TR 1/4, 0.125 pps Poly-E-Flake (LCM). Slurry Weight 13.5 lb/gal, 1.65 ft<sup>3</sup>/sk, 50% excess over gauge hole.

\*Final cement volumes to be calculated from caliper log.

## 6. **Auxiliary Equipment**

A. Kelly Cock – yes

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- B. Float at the bit – Yes
- C. Monitoring equipment on the mud system – PVT/Flow Show
- D. Full opening safety valve on the rig floor – Yes
- E. Rotating Head – Yes
- F. Request for Variance:

Drilling surface hole with air:

A variance from 43 CFR 3160 Onshore Oil and Gas Order #2, Section III Requirements, subsection E. Special Drilling Operations is requested for the specific operation of drilling and setting surface casing on the subject well with a truck mounted air rig. The variance from the following requirements of Order #2 is requested because surface casing depth for this well is 3,804' feet and high pressures are not expected.

1. **Properly lubricated and maintained rotating head** – A diverter system in place of a rotating head. The diverter system forces the air and cutting returns to the reserve pit and is used to drill the surface casing.
  2. **Bloolie line discharge 100 feet from wellbore and securely anchored** – the bloolie line discharge for this operation will be located 50 to 70 feet from the wellhead. This reduced length is necessary due to the smaller location size to minimize surface disturbance.
  3. **Automatic igniter or continuous pilot light on bloolie line** – a diffuser will be used rather than an automatic pilot/igniter. Water is injected into the compressed air and eliminates the need for a pilot light and the need for dust suppression equipment.
  4. **Compressors located in the opposite direction from the bloolie line a minimum of 100 feet from the wellbore** – compressors located within 50 feet on the opposite side of the wellbore from the bloolie line and is equipped with a 1) emergency kill switch on the driller's console, 2) pressure relief valves on the compressors, 3) spark arrestors on the motors.
- G. Drilling below the 9-5/8" casing will be done with water based mud. Maximum anticipated mud weight is 10.5 ppg.
  - H. No minimum quantity of weight material will be required to be kept on location.
  - I. Gas detector will be used from intermediate casing depth to TD.

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

- A. Cores – none.
- B. DST – none anticipated
- C. Logging – Mud logging – Intermediate Casing to TD  
OH Logs: GR-SP-Induction, Neutron Density.
- D. Formation and Completion Interval:  
– Stimulation will be designed for the particular area of interest as encountered.

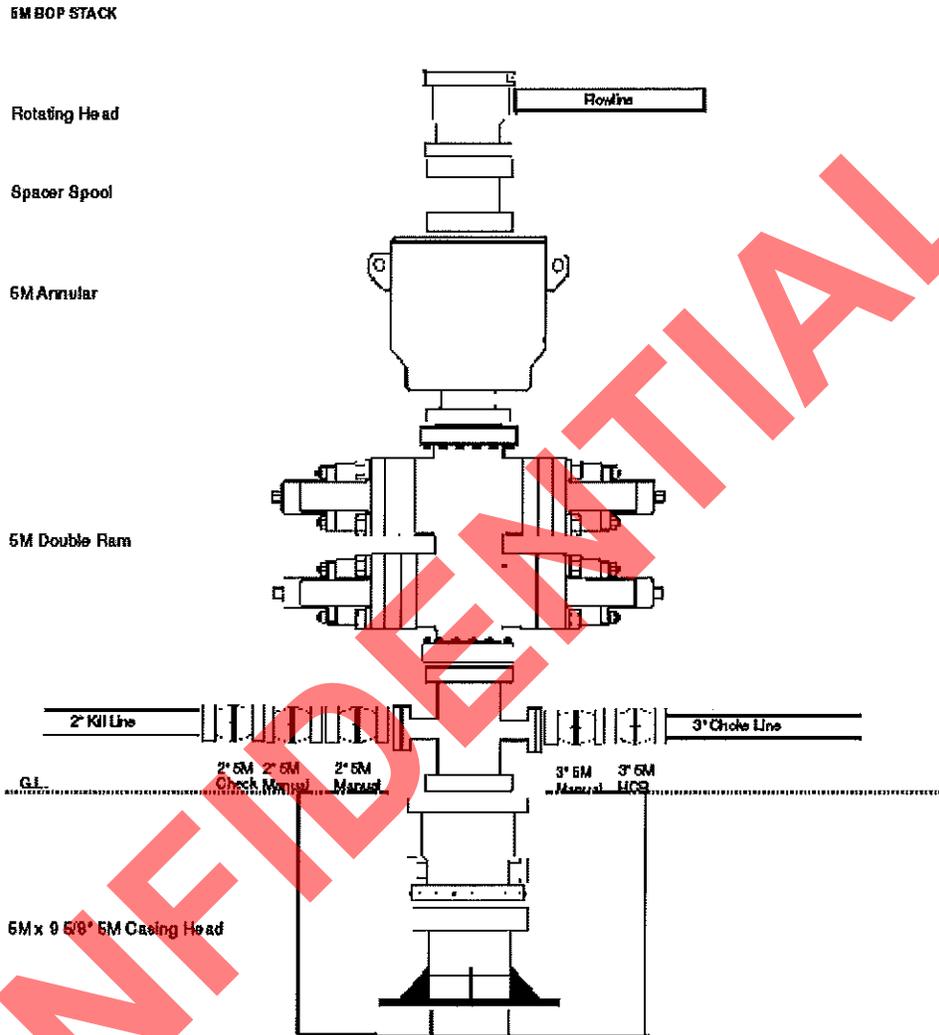
8. **Anticipated Abnormal Pressures and Temperatures, Other Potential Hazards**

No abnormal temperatures or pressures are anticipated. Maximum anticipated bottom hole pressure equals approximately 6,063 psi. Maximum anticipated bottom hole temperature is 210° F.

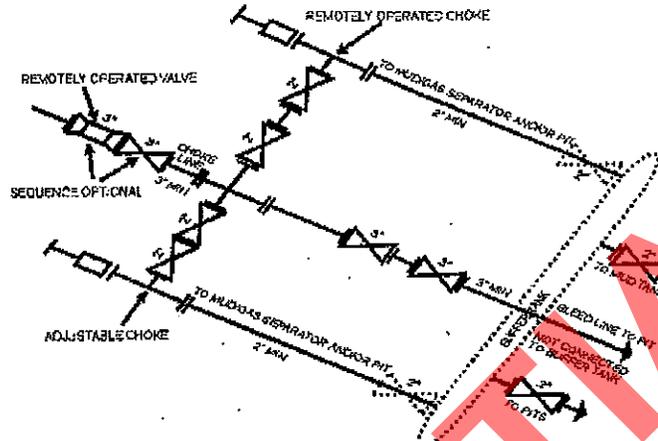
H2S has not been encountered in other wells drilled to similar depths in the general area.

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5M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY

Although not required for any of the choke manifold systems, buffer tanks are sometimes installed downstream of the choke assemblies for the purpose of manifolded the bleed lines together. When buffer tanks are employed, valves shall be installed upstream to isolate a failure or malfunction without interrupting flow control. Though not shown on 26L 361, 1004, OR 1524 drawings, it would also be applicable to those situations.  
[54 FR 29328, Sept. 27, 1989]

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RW 23A-28B  
SESW Sec 28 T7S R23E  
1,097' FSL & 2,511' FWL Sec 28 T7S R23E S.L.B.&M.  
Uintah County, Utah  
KB 5,556'  
GL 5,542'

14" Conductor at 60'

Cemented to surface

Top of Production Lead Cement at 3,000'  
Top of Surface Tail Cement at 3,000'

9-5/8" 36# N-80 @ 3,804'

12-1/4" Open Hole

Top of Production Tail Cement = 1,000' above 4-1/2"

7-7/8" Open Hole

4 1/2" 11.6# HCP-110

11,104'

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**T7S, R23E, S.L.B.&M.**

**QEP ENERGY COMPANY**

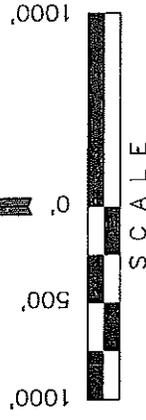
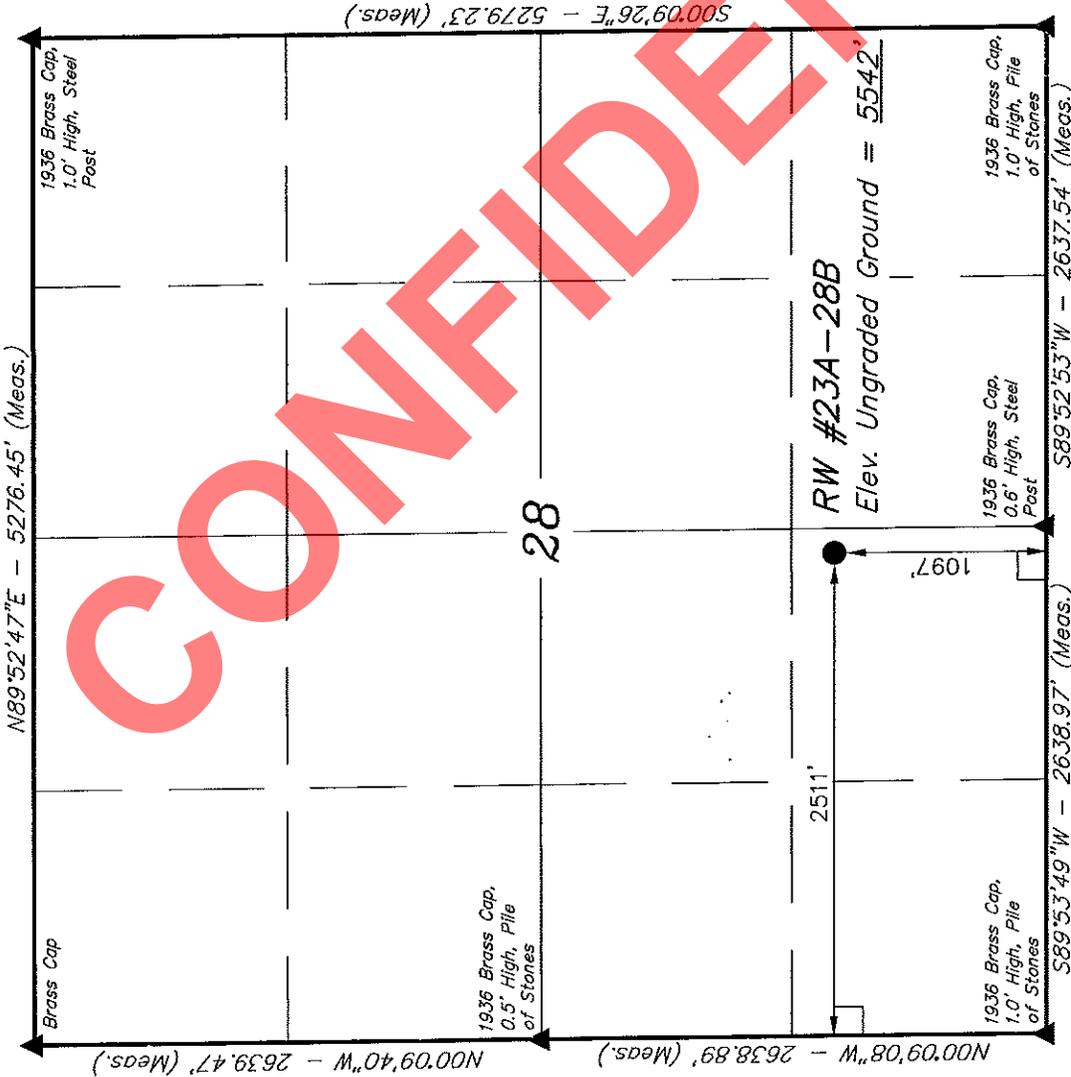
Well location, RW #23A-28B, located as shown in the SE 1/4 SW 1/4 of Section 28, T7S, R23E, S.L.B.&M., Uintah County, Utah.

**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 OR UNDER MY SUPERVISION AND THAT THE SAID ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

*[Signature]*

REGISTERED LAND SURVEYOR  
STATE OF UTAH  
REGISTRATION NO. 161319

<b>UINTAH ENGINEERING &amp; LAND SURVEYING</b>	
85 SOUTH 200 EAST - VERNAL, UTAH 84078 (435) 789-1017	
SCALE 1" = 1000'	DATE SURVEYED: 01-14-11
PARTY A.F. J.C. J.I.	DATE DRAWN: 02-01-11
WEATHER COOL	REFERENCES G.L.O. PLAT
	FILE QEP ENERGY COMPANY

**LEGEND:**

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

(NAD 83)  
 LATITUDE =  $40^{\circ}10'34.74''$  (40.176317)  
 LONGITUDE =  $109^{\circ}19'57.21''$  (109.332558)  
 (NAD 27)  
 LATITUDE =  $40^{\circ}10'34.87''$  (40.176353)  
 LONGITUDE =  $109^{\circ}19'54.76''$  (109.331878)

# QEP ENERGY COMPANY

## RW #23A-28B

LOCATED IN UINTAH COUNTY, UTAH  
SECTION 28, T7S, R23E, S.L.B.&M.



PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHEASTERLY

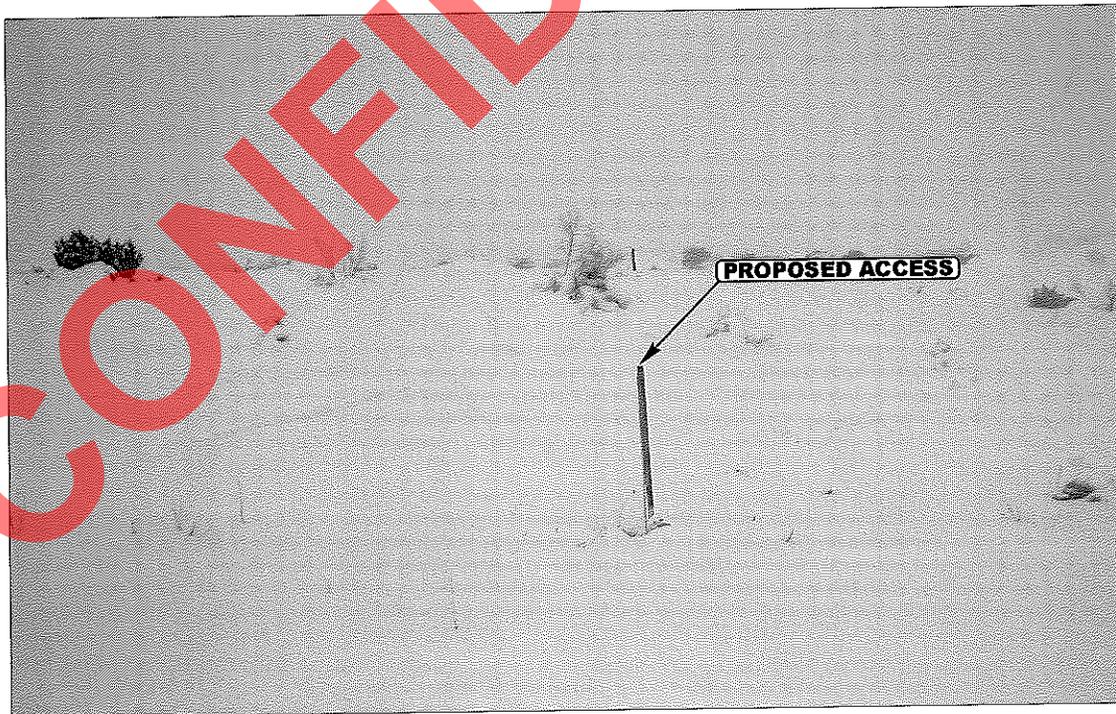


PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: NORTHWESTERLY



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

LOCATION PHOTOS	01	18	11	PHOTO
	MONTH	DAY	YEAR	
TAKEN BY: A.E.	DRAWN BY: J.L.G.	REVISED: 00-00-00		

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LOCATION LAYOUT FOR

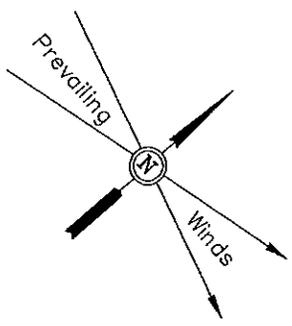
RW #23A-28B  
SECTION 28, T7S, R23E, S.L.B.&M.  
1097' FSL 2511' FWL

FIGURE #1

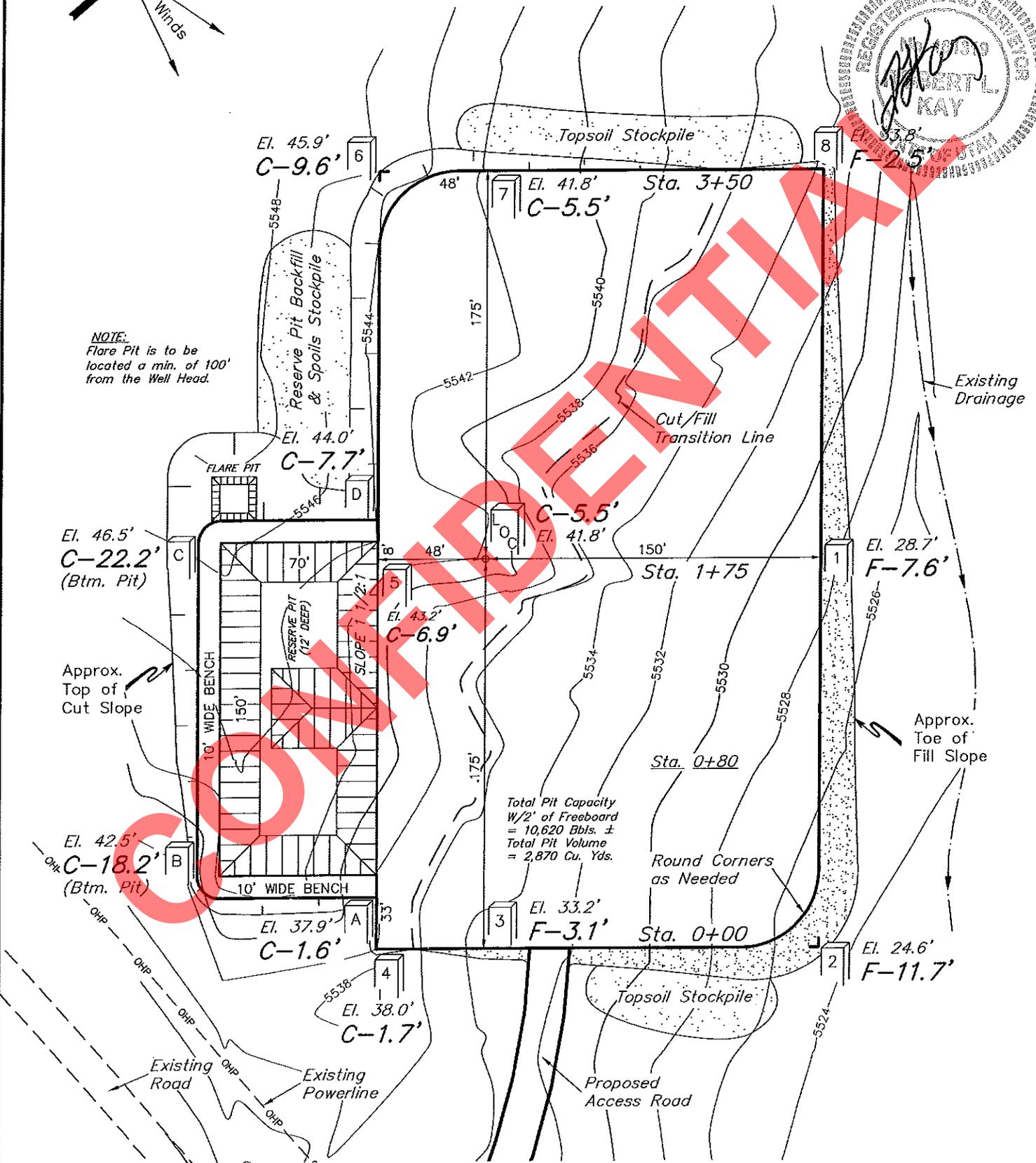
SCALE: 1" = 60'

DATE: 02-01-11

DRAWN BY: J.I.



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



Total Pit Capacity  
w/2' of Freeboard  
= 10,620 Bbls. ±  
Total Pit Volume  
= 2,870 Cu. Yds.

Round Corners  
as Needed

Elev. Ungraded Ground At Loc. Stake = 5541.8'  
FINISHED GRADE ELEV. AT LOC. STAKE = 5536.3'

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

RECEIVED: Jun. 29, 2011

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FIGURE #2

TYPICAL CROSS SECTIONS FOR

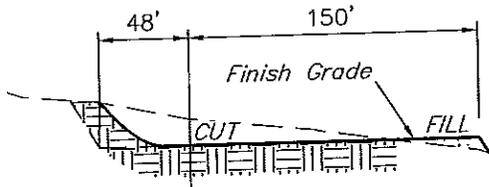
RW #23A-28B

SECTION 28, T7S, R23E, S.L.B.&M.

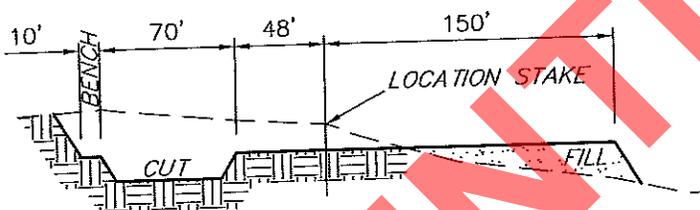
1097' FSL 2511' FWL

1" = 40'  
X-Section Scale  
1" = 100'

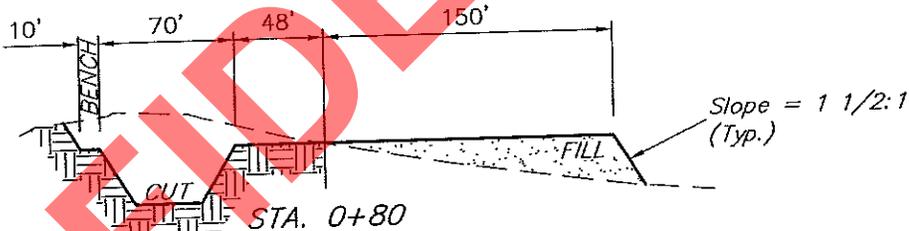
DATE: 02-01-11  
DRAWN BY: J.I.



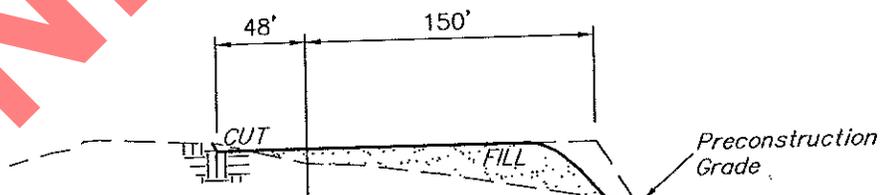
STA. 3+50



STA. 1+75



STA. 0+80



STA. 0+00

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NOTE:

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

APPROXIMATE ACREAGES

WELL SITE DISTURBANCE = ± 2.427 ACRES  
ACCESS ROAD DISTURBANCE = ± 0.143 ACRES  
PIPELINE DISTURBANCE = ± 0.519 ACRES  
TOTAL = ± 3.089 ACRES

\* NOTE:

FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

(6") Topsoil Stripping = 1,830 Cu. Yds.  
Remaining Location = 10,110 Cu. Yds.  
TOTAL CUT = 11,940 CU.YDS.  
FILL = 8,670 CU.YDS.

EXCESS MATERIAL = 3,270 Cu. Yds.  
Topsoil & Pit Backfill (1/2 Pit Vol.) = 3,270 Cu. Yds.  
EXCESS UNBALANCE = 0 Cu. Yds. (After Interim Rehabilitation)

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## TYPICAL RIG LAYOUT FOR

RW #23A-28B

SECTION 28, T7S, R23E, S.L.B.&M.

1097' FSL 2511' FWL

FIGURE #3

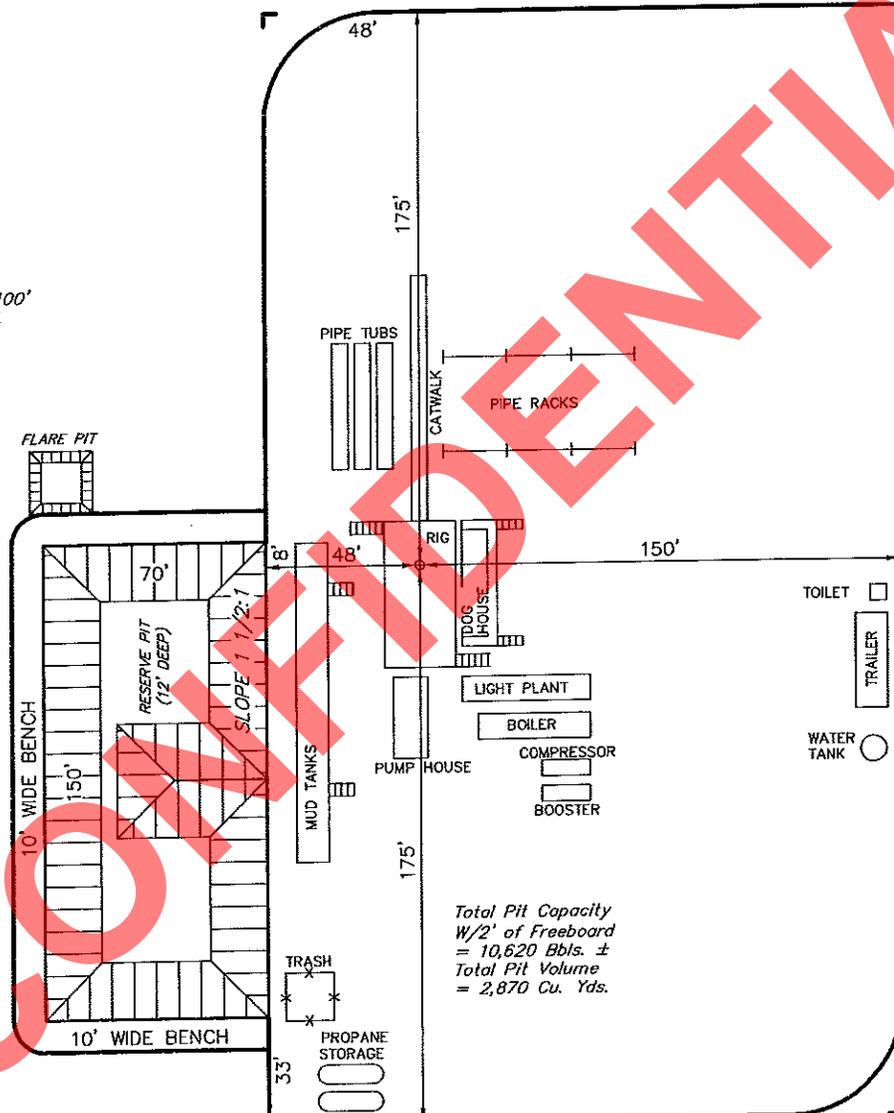
SCALE: 1" = 60'

DATE: 02-01-11

DRAWN BY: J.I.



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

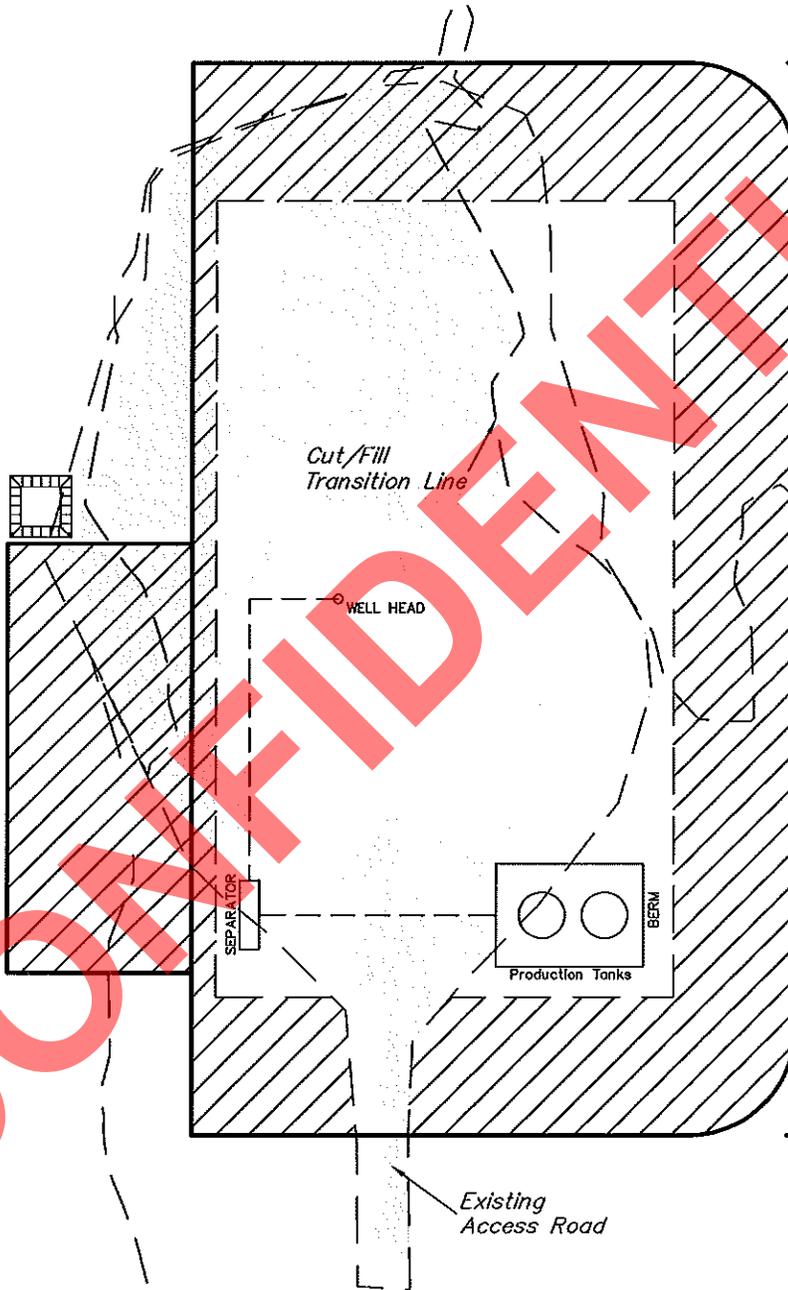
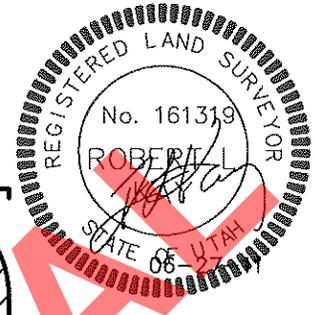


Proposed Access Road

QUESTAR EXPLR. & POR.  
PRODUCTION FACILITY LAYOUT FOR  
RW #23-28B  
SECTION 28, T7S, R23E, S.L.B.&M.  
1992' FSL 2018' FWL

FIGURE #4

SCALE: 1" = 60'  
DATE: 06-27-11  
DRAWN BY: J.I.



APPROXIMATE ACREAGES  
UN-RECLAIMED = ± 0.918 ACRES

 RE-HABED AREA

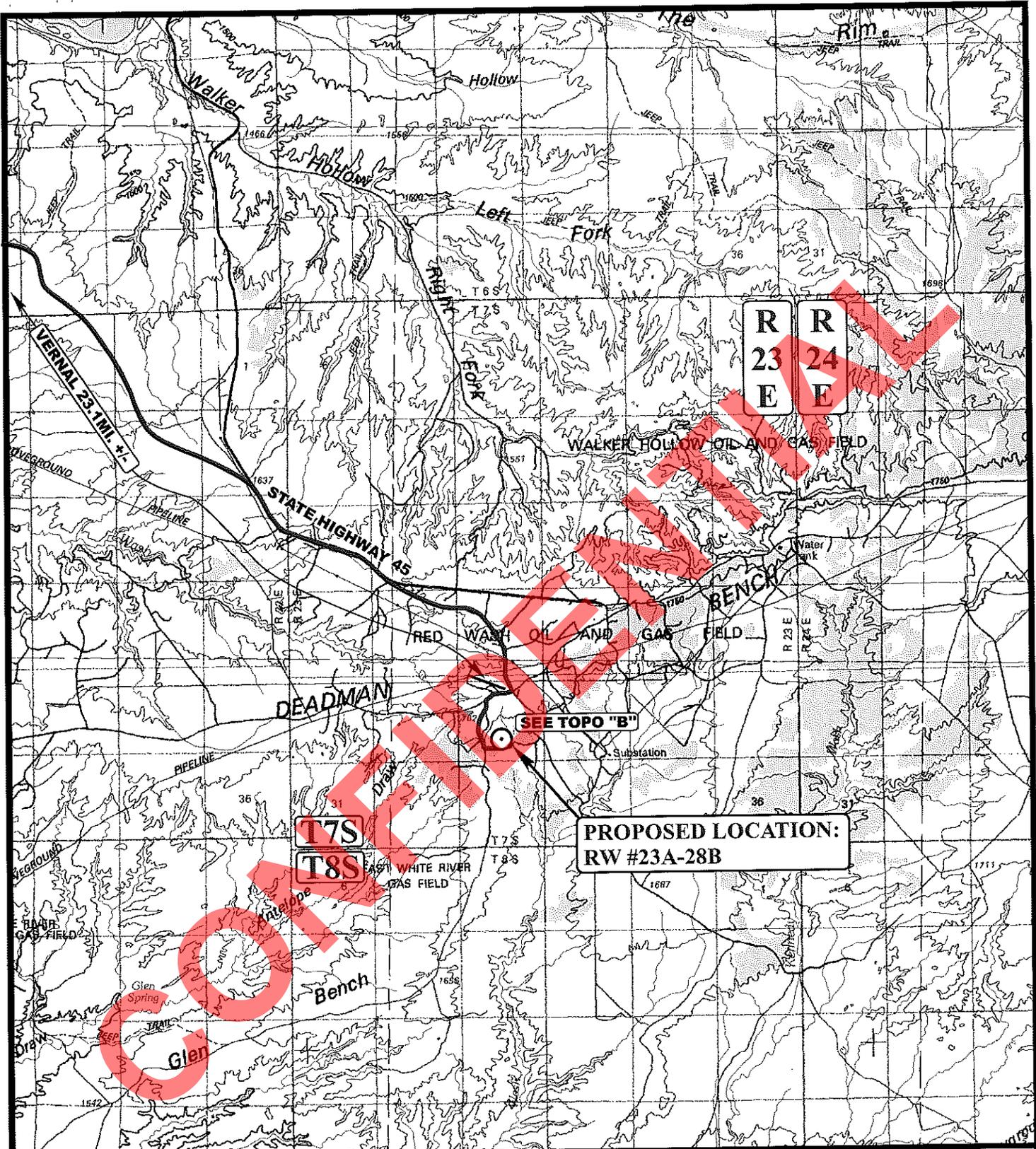
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RW #23A-28B  
SECTION 28, T7S, R23E, S.L.B.&M.

PROCEED IN AN EASTERLY, THEN SOUTHERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 3.9 MILES TO THE JUNCTION OF STATE HIGHWAY 45; EXIT RIGHT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 19.2 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE WEST; TURN RIGHT AND PROCEED IN A WESTERLY DIRECTION APPROXIMATELY 0.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 0.6 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 0.2 MILES TO THE BEGINNING OF THE PROPOSED ACCESS ROAD TO THE NORTHWEST; FOLLOW ROAD FLAGS IN A NORTHWESTERLY DIRECTION APPROXIMATELY 208' TO THE PROPOSED LOCATION

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 24.2 MILES.

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R  
23  
E

R  
24  
E

PROPOSED LOCATION:  
RW #23A-28B

**LEGEND:**

○ PROPOSED LOCATION

**QEP ENERGY COMPANY**

RW #23A-28B  
SECTION 28, T7S, R23E, S.L.B.&M.  
1097' FSL 2511' FWL



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

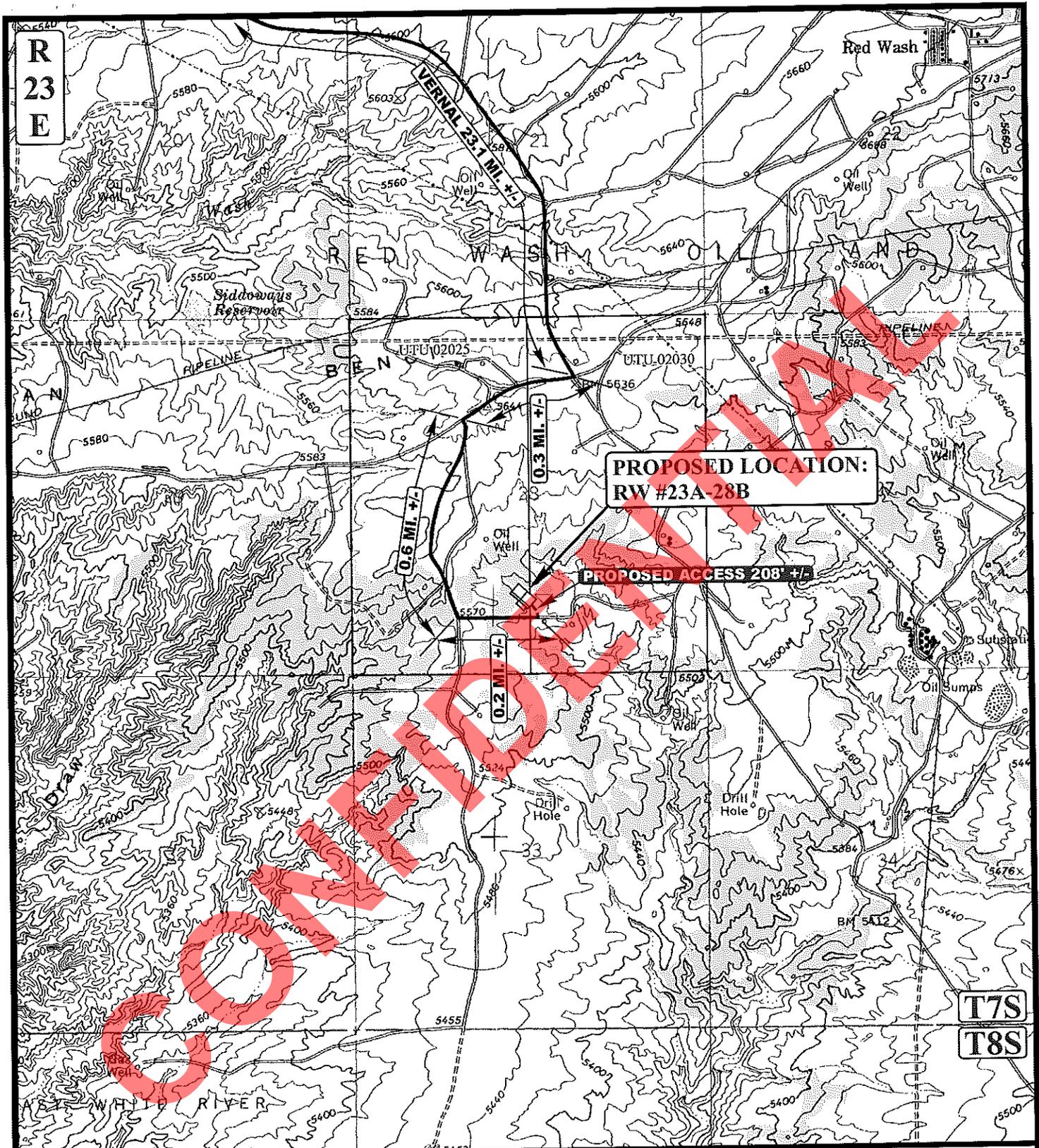


TOPOGRAPHIC  
MAP

01	18	11
MONTH	DAY	YEAR

SCALE: 1:100,000 | DRAWN BY: J.L.G. | REVISED: 00-00-00





**LEGEND:**

- EXISTING ROAD
- PROPOSED ACCESS ROAD

**QEP ENERGY COMPANY**

RW #23A-28B  
 SECTION 28, T7S, R23E, S.L.B.&M.  
 1097' FSL 2511' FWL



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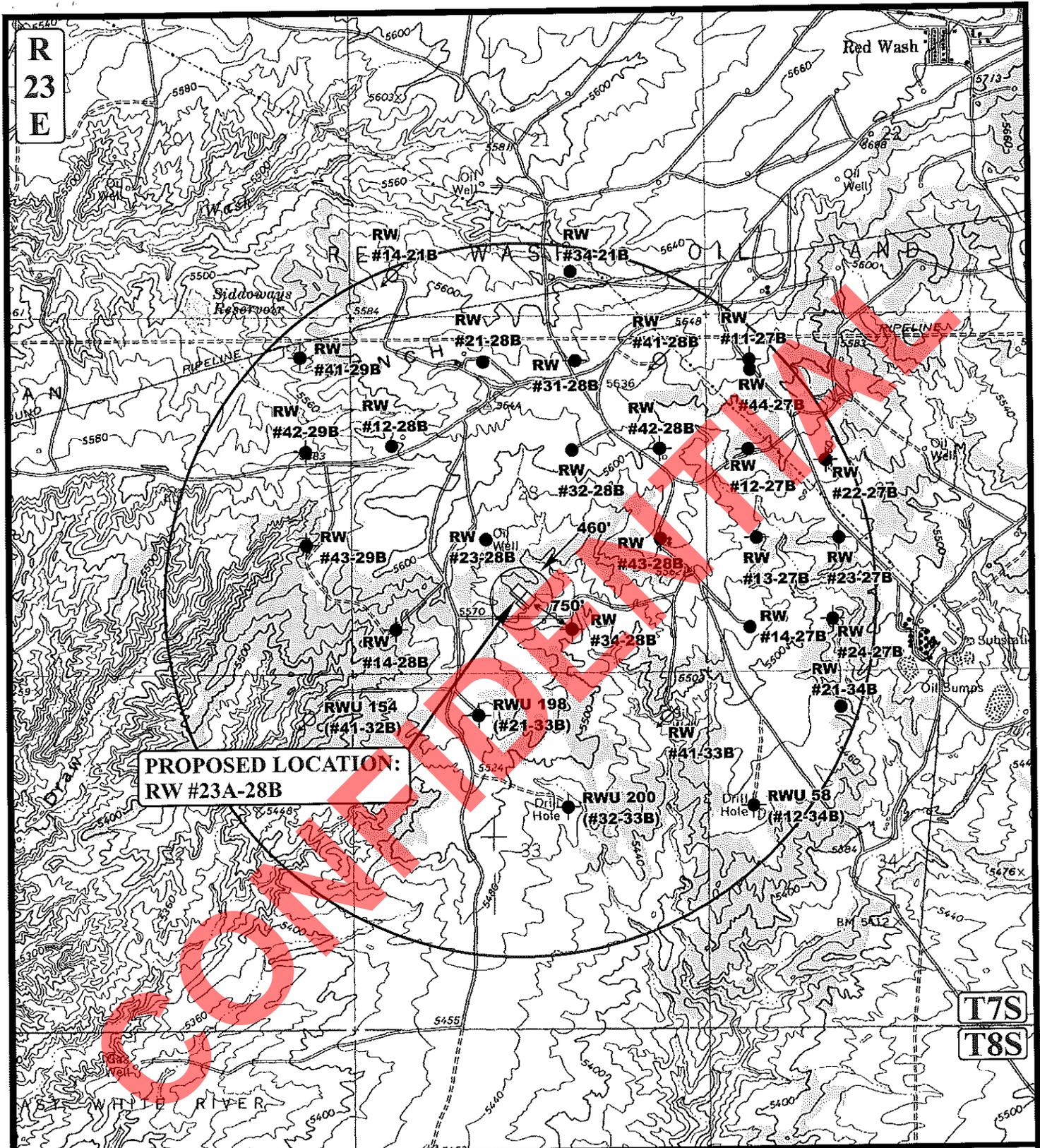


**TOPOGRAPHIC**  
**MAP**

<b>01</b>	<b>18</b>	<b>11</b>
MONTH	DAY	YEAR

SCALE: 1" = 2000' DRAWN BY: J.L.G. REVISED: 00-00-00





**PROPOSED LOCATION:  
RW #23A-28B**

**LEGEND:**

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

**QEP ENERGY COMPANY**

**RW #23A-28B  
SECTION 28, T7S, R23E, S.L.B.&M.  
1097' FSL 2511' FWL**

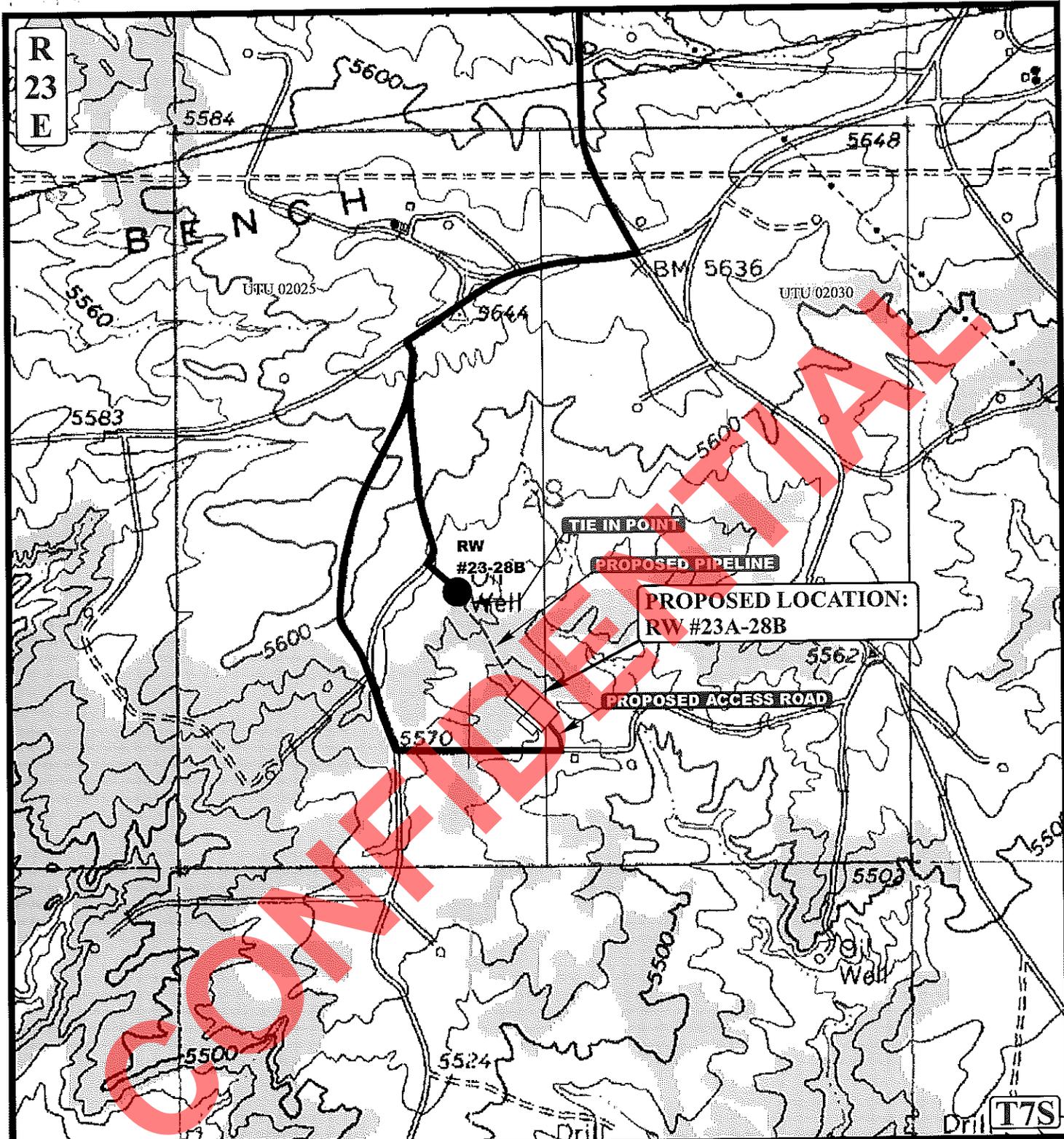


**Uintah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813



**TOPOGRAPHIC MAP**  
01 18 11  
MONTH DAY YEAR  
SCALE: 1" = 2000' DRAWN BY: J.L.G. REVISED: 00-00-00





APPROXIMATE TOTAL PIPELINE DISTANCE = 753' +/-

**LEGEND:**

-  EXISTING PIPELINE
-  PROPOSED PIPELINE
-  PROPOSED ACCESS

**QEP ENERGY COMPANY**

RW #23A-28B  
 SECTION 28, T7S, R23E, S.L.B.&M.  
 1097' FSL 2511' FWL

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



TOPOGRAPHIC	01	18	11	<b>D</b> TOPO
MAP	MONTH	DAY	YEAR	
SCALE: 1"=1000'		DRAWN BY: J.L.G.		REVISED: 00-00-00

**QEP ENERGY COMPANY**  
 REFERENCE MAP: AREA OF VEGETATION  
 RW #23A-28B  
 LOCATED IN UINTAH COUNTY, UTAH  
 SECTION 28, T7S, R23E, S.L.B.&M.

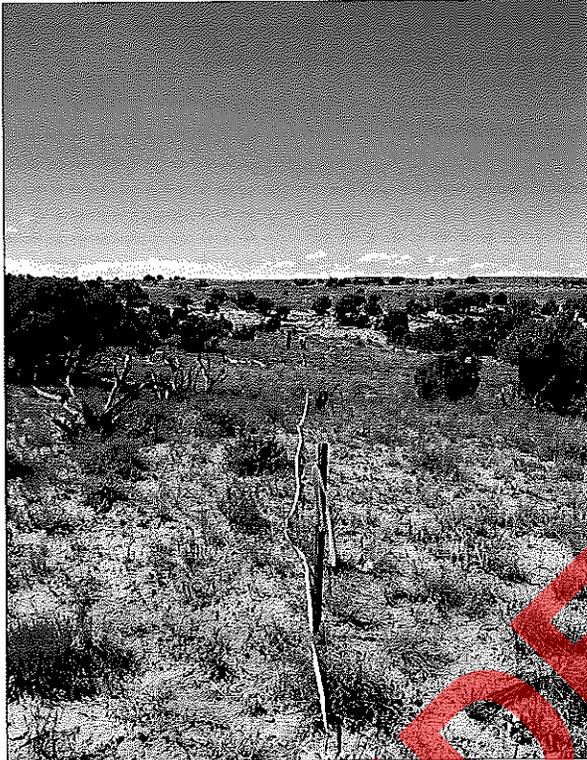


PHOTO: VIEW FROM BEGINNING OF REFERENCE AREA

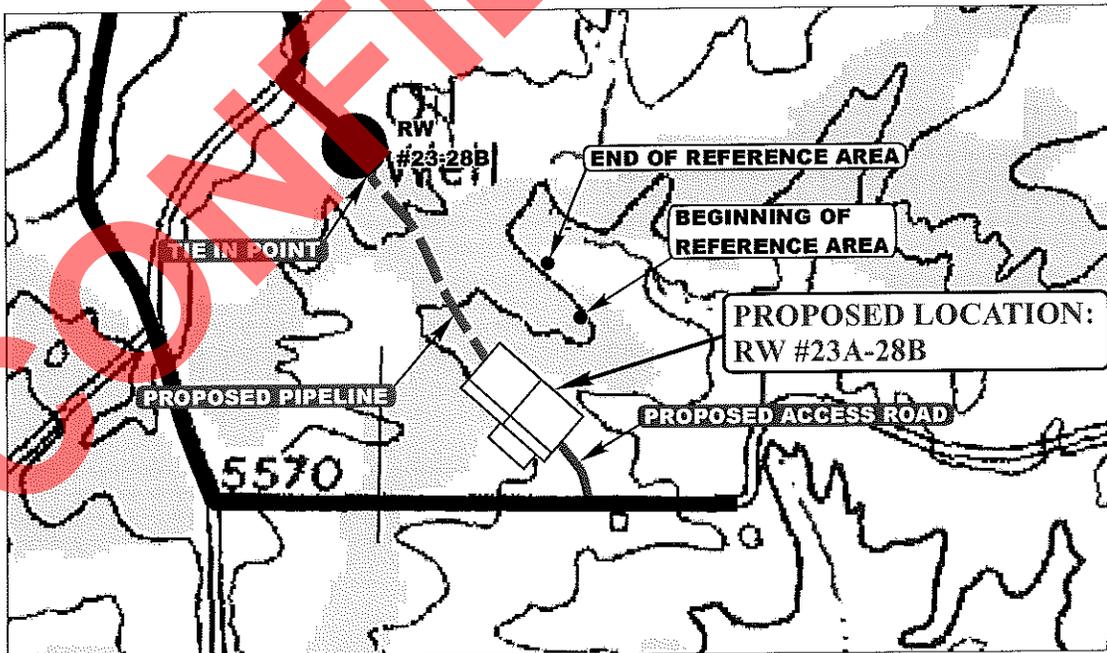
**NOTE:**

**BEGINNING OF REFERENCE AREA**

**UTM NORTHING:** 14594958.950  
**UTM EASTING:** 2106616.339  
**LATITUDE:** 40.177186  
**LONGITUDE:** -109.331747

**END OF REFERENCE AREA**

**UTM NORTHING:** 14595127.985  
**UTM EASTING:** 2106510.703  
**LATITUDE:** 40.177656  
**LONGITUDE:** -109.332114



**UELS**

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

- Since 1964 -

SCALE: 1" = 300'			06	13	11	REF.
			MONTH	DAY	YEAR	
TAKEN BY: A.F.	DRAWN BY: Z.L.	REVISED: 00-00-00				

**WEED DATA SHEET**

PROJECT NAME: *RW 23A-28B*  
 SURVEYOR: *Stephanie Tomkinson*

DATE: *6-8-11*

	Location GPS Coordinates	Site Description	Weed Species	Cover Class or Number	Pattern	Infestation Size (acres)
1						
2						
3						
4						
5						
6						
7						

**SITE DRAWING (Optional):** Include a sketch of the infestation within the project area. Count the number of individuals if possible.

*No noxious weeds on location*

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- \*Cover Class- estimated percent cover, by species, of the infestation
  - 0 = No weeds found
  - 1 = Less than 1% (trace)
  - 2 = One to five % (low - occasional plants)
  - 3 = Six to twenty-five % (moderate - scattered plants)
  - 4 = Twenty-five to 100 % (high - fairly dense)
- \*Pattern -- pattern of the infestation
  - 0 = No weeds found
  - 1 = Single plant or small area of many plants
  - 2 = Linear
  - 3 = Patchy
  - 4 = Block
- \*Infestation Size -- number of estimated acres of the infestation
  - 0 = No weeds found
  - 1 = Less than one acre
  - 2 = One to five acres
  - 3 = five or more acres

Cheatgrass canopy cover: 4  
 Russian thistle canopy cover: 2  
 Halogeton canopy cover: 2  
 Kochia canopy cover: 1

*N + T*  
*WBS*  
*wheat*  
*Rabbit*  
*flox*  
*sego*  
*galletta*

### Additional Operator Remarks

QEP Energy Company proposes drill a vertical gas well to a depth of 11, 104' to test the Mesa Verde Formation. If productive, casing will be run and the well completed. If dry, the well will be plugged and abandoned as per BLM and State of Utah requirements.

Please see Onshore Order No. 1.

Please refer to QEP Energy Company Greater Deadman Bench  
EIS UT-080-2003-0369V Record of Decision dated March 31, 2008.

Please be advised that QEP Energy Company agrees to be responsible under the terms and conditions of the lease for the operations conducted upon the lease lands.

Bond coverage for this well is provided by Bond No.ESB000024. The principal is QEP Energy Company via surety as consent as provided for the 43 CFR 3104.2.

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**QEP ENERGY COMPANY  
RW 23A-28B  
1097' FSL 2511' FWL  
SESW SECTION 28, T7S, R23E  
UINTAH COUNTY, UTAH  
LEASE # UTU-02025**

**ONSHORE ORDER NO. 1  
MULTI – POINT SURFACE USE & OPERATIONS PLAN**

An onsite inspection was conducted for the RW 23A-28B on June 8, 2011. Weather conditions were sunny at the time of the onsite. In attendance at the inspection were the following individuals:

Kevin Sadlier	Bureau of Land Management
Aaron Roe	Bureau of Land Management
Holly Villa	Bureau of Land Management
Daniel Emmett	Bureau of Land Management
Melissa Wardle	Bureau of Land Management
Stephanie Tomkinson	QEP Energy Company
Valyn Davis	QEP Energy Company
Andy Floyd	Uintah Engineering & Land Surveying

**1. Existing Roads:**

The proposed well site is approximately 24 miles South of Vernal, Utah.

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

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

**2. Planned Access Roads:**

Please refer to QEP Energy Company Greater Deadman Bench EIS UTU-080-200-0369V Record of Decision dated March 31, 2008.

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

There will be a new access road approximately 208' in length, containing approximately .143 acres. The access road will be crowned and ditched with a running surface of 18 feet and a maximum disturbed width of 30. Any additional disturbance required due to intersections or sharp curves will be discussed at the on-site and approved by the BLM/WFO AO. Graveling or capping the roadbed will be performed as necessary to provide a well constructed safe road. Should conditions warrant, rock, gravel or culverts will be installed as needed. Surface disturbance and vehicular traffic will be limited to the approved location and access route or, as proposed by the Operator.

Access roads and surface disturbing activities will conform to standards outlined in the BLM and Forest Service publication: Surface Operating Standards for Oil and gas Exploration and Development, Fourth Edition 2006. The road surface and shoulders will be kept in a safe and usable condition and will be maintained in accordance with the original construction standards. All drainage ditches and culverts will be kept clear and free-flowing and will be maintained according to original construction standards. The access road disturbed area will be kept free of trash during operations. All traffic will be confined to the approved road running surface. Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossings shall be designed so they will not cause excess siltation or accumulation of debris in the drainage nor shall the drainage be blocked by the roadbed. If culverts are needed, the location and size of the culverts will be proposed during the on-site. The operator will clean and maintain approved culverts as needed. Erosion of drainage ditches by runoff water shall be prevented by diverting water off at frequent intervals by means of cutouts. Should mud holes develop, the holes shall be filled in and detours around the holes avoided. When snow is removed from the road during the winter months, the snow should be pushed outside of the borrow ditches, and the turnouts kept clear so that snowmelt will be channeled away from the road.

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

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

Please refer to Topo Map C.

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

Please refer to QEP Energy Company Greater Deadman Bench EIS UTU-080-200-0369V Record of Decision dated March 31, 2008.

The following guidelines will apply if the well is productive.

A containment dike will be constructed completely around those production facilities which contain fluids (i.e., production tanks, produced water tanks). These dikes will be constructed of compacted impervious subsoil; hold 110% of the capacity of the largest tank; and, be independent of the back cut. If a Spill Prevention, Control, and Countermeasure (SPCC) Plan is required by the Environmental Protection Agency, the containment dike may be expanded to meet SPCC requirements with approval by the BLM/VFO AO. The specific APD will address additional capacity if such is needed due to environmental concerns. The use of topsoil for the construction of dikes will not be allowed.

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

All permanent (on site six months or longer) above the ground structures constructed or installed, including pumping units, will be painted a color approved by the State.

It was determined on the onsite by the BLM VFO AO that the facilities will be painted Covert Green.

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

The proposed surface pipeline will be constructed utilizing existing disturbed areas to minimize surface disturbance. No construction activities will be allowed outside of the proposed pipeline.

Prior to construction, the Permittee will develop a plan of installation to minimize surface disturbance. Pipe will be strung along the pipeline route with either a flatbed trailer and rubber tired backhoe or a tracked typed side boom. Where surface conditions do not allow the pipe to be strung using conventional methods, the Permittee will utilize pull sections to run the fabricated pipe through the area from central staging areas along the pipeline route.

Upon completion of stringing activities the Permittee will fabricate the pipeline on wooden skids adjacent to the centerline of the pipeline route using truck mounted welding machines. All fabricated piping will be lowered off of the wooden skids and placed along the centerline. Upon completion of all activities, the wooden skids will be removed from the pipeline route using a flatbed truck or flatbed truck and trailer.

When the surface terrain prohibits the Permittee from safely installing the pipeline along the pipeline route, grading of the route will be required. Prior to installing the pipeline in these areas a plan will be developed to safely install the pipeline while minimizing grading activities and surface disturbances. Additionally, erosion control Best Management Practices will be installed as needed prior to the start of any grading activities. Surface grading will be limited to what is needed to safely install the pipeline. Track type bulldozers and track type backhoes will be utilized for grading activities.

Upon completion of the pipeline installation, the pipeline route will be restored to the pre-disturbance surface contours.

The proposed pipeline will be a surface 10" or smaller, 753' in length, containing .519 acres.

### **Road Crossings**

Fusion Bond or concrete coated pipe will be used for all road crossings to alleviate future corrosion.

All pipe and fittings used for road crossings will be prefabricated within the proposed pipeline route to minimize the duration of open pipe trench across the roadway. Pipe used for road crossings will be isolated on each end with a flange set and insulation kit and cathodically protected with a magnesium type anode. Adequately sized equipment will be used for minor and major road crossings. Depth of cover for minor roads will be >4' and the depth of cover for major roads will be >6'.

Prior to lowering the pipe in the trench, the Permittee will "Jeep" the pipe to locate and repair any Holidays in the pipe coating. Upon lowering the pipe in the trench, 6" of bedding and a minimum of 6" of shading will be installed to protect the pipe using either native soils <1" in diameter or imported sand. Pipe trenches that extend across gravel roads will be backfilled with native soils to within 8" of the driving surface and capped with 3/4" road base. Pipe trenches that extend across asphalt paved roads will be backfilled to 4" of the driving surface with 3/4" road base and capped asphalt material.

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

Please refer to QEP Energy Company Greater Deadman Bench EIS UTU-080-200-0369V Record of Decision dated March 31, 2008.

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

**6. Source of Construction Materials:**

Please refer to QEP Energy Company Greater Deadman Bench EIS UTU-080-200-0369V Record of Decision dated March 31, 2008.

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:**

Please refer to QEP Energy Company Greater Deadman Bench EIS UTU-080-200-0369V Record of Decision dated March 31, 2008.

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 within 6 months after drilling is terminated. Immediately upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1.

Unless specified in the site specific APD, the reserve pit will be constructed on the location and will not be located within natural drainages, where a flood hazard exists

or surface runoff will or damage the pit walls. The reserve pit will be constructed so that it will not leak, break, or allow discharge of liquids.

It will be determined at the on-site inspection if a pit liner is necessary, the reserve pit will be lined with a synthetic reinforced liner, a minimum of 20 millimeters thick, with sufficient bedding used to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place.

No trash or scrap will be disposed of in the pit.

Reserve pit leaks are considered an undesirable event and will be orally reported to the AO.

After first production, produced wastewater will be confined to the approved pit or storage tank for a period not to exceed 90 days.

After the 90 day period, the produced water will be contained in tanks on location and then hauled by truck to one of the following pre-approved disposal sites:

Red Wash Disposal well located in the SESE, Section 28, T7S, R23E,  
West End Disposal located in the NESE, Section 28, T7S, R22E.

Produced water, oil, and other byproducts will not be applied to roads or well pads for the control of dust or weeds. The dumping of produced fluids on roads, well sites, or other areas will not be allowed.

Any spills of oil, gas, salt water, or other noxious fluids will be immediately cleaned up and removed to an approved disposal site. The spills will be reported to the AO and other authorities as appropriate.

A chemical porta-toilet will be furnished with the drilling rig. The chemical porta-toilet wastes will be hauled to Ashley Valley Sewer and Water System for disposal.

Garbage, trash, and other waste materials will be collected in a portable, self-contained, fully enclosed trash cage during operations. Trash will not be burned on location. All debris and other waste material not contained in the trash cage will be cleaned up and removed from the location immediately after removal of the drilling rig. All trash and waste material will be hauled to the Uintah County Landfill.

No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of wells. Furthermore, extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will not be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completing of wells within these areas. Specific APD's shall address any modifications from this policy.

#### 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 rig orientation, parking areas, and access roads, as well as the location of the following:

The reserve pit.

The stockpiled topsoil will not be used for facility berms. All brush removed from the well pad during construction will be stockpiled with topsoil.

The flare pit or flare box will be located downwind from the prevailing wind direction.

Any drainage that crosses the well location will be diverted around the location by using ditches, water diversion drains or berms. If deemed necessary at the on-site, erosion drains may be installed to contain sediments that could be produced from access roads and well locations.

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

**10. Fencing Requirements:**

Any open pits will be fenced during the operations. The fencing will be maintained until such time as the pits are backfilled.

All pits will be fenced according to the following minimum standards:

39 inch net wire will be used with at least one strand of barbed wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.

The net wire shall be no more than two inches above the ground. The barbed wire shall be three inches over the net wire. Total height of the fence shall be at least 42 inches.

Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.

Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

All wire shall be stretched using a stretching device before it is attached to corner posts.

The reserve pit will be fenced on three (3) sides during drilling operations. The fourth side will be put in place when the rig moves off location. The pit will be fenced and maintained until it is backfilled. If drilling operations does not commence within 3 days, the fourth side of the fence will be installed

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

Please refer to QEP Energy Company Uinta Basin Division Reclamation Plan

**Site Specific Procedures:**

**Site Specific Reclamation Summary:**

Reclamation will follow Questar Exploration and Production Company, Uinta Basin Division's Reclamation Plan, September 2009 (Questar's Reclamation Plan) and the BLM Green River District Reclamation Guidelines.

All trash and debris will be removed from the disturbed area.

The disturbed area will be backfilled with subsoil.

Topsoil will be spread to an even, appropriate depth and disked if needed.

Water courses and drainages will be restored.

Erosion control devices will be installed where needed.

Seeding will be done in the fall, prior to ground freeze up.

Seed mix will be submitted to a BLM AO for approval prior to seeding.

Monitoring and reporting will be conducted as stated in Questar's Reclamation Plan. A reference site and weed data sheet has been established and is included in this application.

It was determined and agreed upon that there is 5" inches of top soil.

**12. Surface Ownership:**

Bureau of Land Management  
170 South 500 East  
Vernal, Utah 84078  
(435) 781-4400

**13. Other Information:**

A Class III archaeological survey was conducted by Montgomery Archaeology Consultants. A copy of this report was submitted on May 10, 2011, **Moac Report**

**No. 11-010** by Montgomery Archaeology Consultants. Cultural resource clearance was recommended for this location.

A Class III paleontological survey was conducted by Intermountain Paleo Consulting. A copy of this report was submitted on June 3, 2011 **IPC # 11-23** by Stephen D. Sandau. The inspection resulted in the location of no fossil resources. However, if vertebrate fossil(s) are found during construction a paleontologist should be immediately notified. QEP will provide Paleo monitor if needed.

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

Valyn Davis  
Regulatory Affairs Analyst  
QEP Energy Company  
11002 East 17500 South  
Vernal, UT 84078  
(435) 781-4331

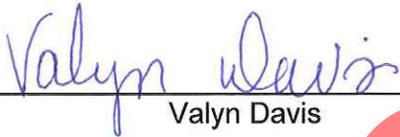
Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its 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.

QEP Energy Company is considered to be the operator of the subject well. QEP Energy Company agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

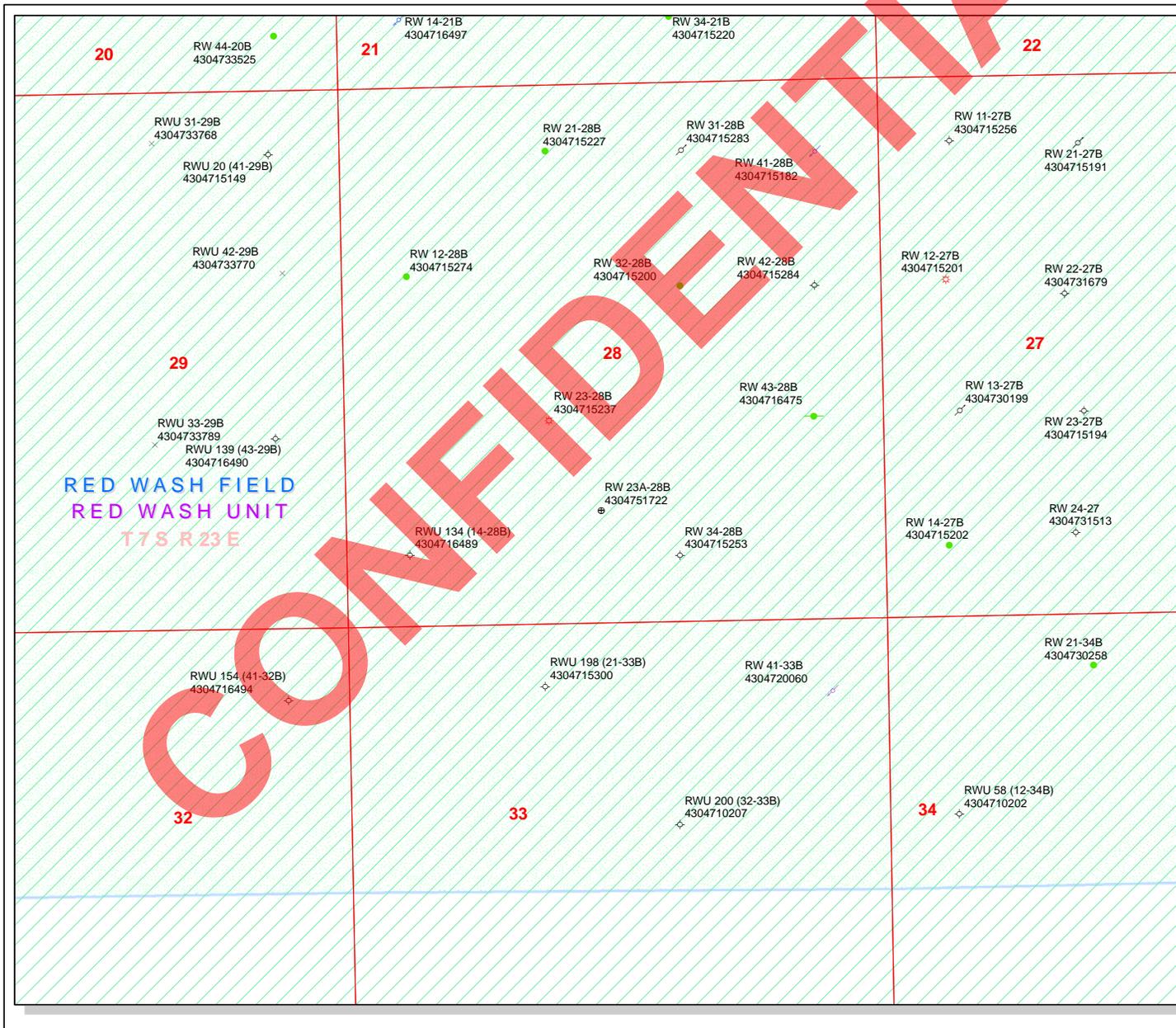
Bond coverage pursuant to 43 CFR 3104.2 for lease activities is being provided by Bond No. ESB000024

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operations; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed 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.

  
Valyn Davis

6/28/2011  
Date

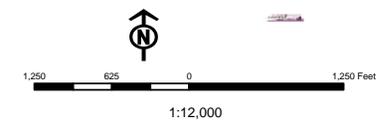
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**API Number: 4304751722**  
**Well Name: RW 23A-28B**  
**Township T0.7 . Range R2.3 . Section 28**  
**Meridian: SLBM**  
**Operator: QEP ENERGY COMPANY**

Map Prepared:  
 Map Produced by Diana Mason

<b>Units</b>	<b>Wells Query</b>
<b>STATUS</b>	<b>Status</b>
ACTIVE	APD - Approved Permit
EXPLORATORY	DRIL - Spudded (Drilling Commenced)
GAS STORAGE	GIW - Gas Injection
NF PP OIL	GS - Gas Storage
NF SECONDARY	LA - Location Abandoned
PI OIL	LOC - New Location
PP GAS	DPS - Operation Suspended
PP GEOTHERML	PA - Plugged Abandoned
PP OIL	PGW - Producing Gas Well
SECONDARY	POW - Producing Oil Well
TERMINATED	RET - Returned APD
<b>Fields</b>	SGW - Shut-in Gas Well
Unknown	SOW - Shut-in Oil Well
ABANDONED	TA - Temp. Abandoned
ACTIVE	TW - Test Well
COMBINED	WDW - Water Disposal
INACTIVE	WIW - Water Injection Well
STORAGE	WSW - Water Supply Well
TERMINATED	
Sections	
Township	



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

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

**IN REPLY REFER TO:**

**3160  
(UT-922)**

June 29, 2011

Memorandum

To: Assistant District Manager Minerals, Vernal District  
From: Michael Coulthard, Petroleum Engineer  
Subject: 2011 Plan of Development Red Wash Unit,  
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2011 within the Red Wash Unit, Uintah County, Utah.

API#	WELL NAME	LOCATION
(Proposed PZ MESA VERDE)		
43-047-51719	RW 44-25B Sec 25	T07S R23E 0645 FSL 0813 FEL
43-047-51720	RW 34-24B Sec 24	T07S R23E 0534 FSL 2126 FEL
43-047-51721	RW 43-20B Sec 20	T07S R23E 1637 FSL 0562 FEL
43-047-51722	RW 23A-28B Sec 28	T07S R23E 1097 FSL 2511 FWL

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

Michael L. Coulthard

Digitally signed by Michael L. Coulthard  
DN: cn=Michael L. Coulthard, o=Bureau of Land Management, ou=Branch of Minerals, email=Michael\_Coulthard@blm.gov, c=US  
Date: 2011.06.29 14:08:03 -0600

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

MCoulthard:mc:6-29-11

RECEIVED: Jun. 29, 2011

## WORKSHEET APPLICATION FOR PERMIT TO DRILL

**APD RECEIVED:** 6/28/2011

**API NO. ASSIGNED:** 43047517220000

**WELL NAME:** RW 23A-28B

**OPERATOR:** QEP ENERGY COMPANY (N3700)

**PHONE NUMBER:** 435 781-4369

**CONTACT:** Valyn Davis

**PROPOSED LOCATION:** SESW 28 070S 230E

**Permit Tech Review:**

**SURFACE:** 1097 FSL 2511 FWL

**Engineering Review:**

**BOTTOM:** 1097 FSL 2511 FWL

**Geology Review:**

**COUNTY:** Uintah

**LATITUDE:** 40.17635

**LONGITUDE:** -109.33187

**UTM SURF EASTINGS:** 642031.00

**NORTHINGS:** 4448455.00

**FIELD NAME:** RED WASH

**LEASE TYPE:** 1 - Federal

**LEASE NUMBER:** UTU02025

**PROPOSED PRODUCING FORMATION(S):** MESA VERDE

**SURFACE OWNER:** 1 - Federal

**COALBED METHANE:** NO

**RECEIVED AND/OR REVIEWED:**

- PLAT
  - Bond: FEDERAL - ESB000024
  - Potash
  - Oil Shale 190-5
  - Oil Shale 190-3
  - Oil Shale 190-13
  - Water Permit: A-36125/ 49-2153
  - RDCC Review:
  - Fee Surface Agreement
  - Intent to Commingle
- Commingling Approved**

**LOCATION AND SITING:**

- R649-2-3.
- Unit: RED WASH
- R649-3-2. General
- R649-3-3. Exception
- Drilling Unit
- Board Cause No: Cause 187-07
- Effective Date: 9/18/2001
- Siting: Suspends General Siting
- R649-3-11. Directional Drill

**Comments:** Presite Completed

**Stipulations:** 4 - Federal Approval - dmason



GARY R. HERBERT  
*Governor*

GREGORY S. BELL  
*Lieutenant Governor*

## State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

### Permit To Drill

\*\*\*\*\*

**Well Name:** RW 23A-28B  
**API Well Number:** 43047517220000  
**Lease Number:** UTU02025  
**Surface Owner:** FEDERAL  
**Approval Date:** 6/29/2011

**Issued to:**

QEP ENERGY COMPANY, 11002 East 17500 South, Vernal, Ut 84078

**Authority:**

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 187-07. The expected producing formation or pool is the MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

**Duration:**

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

**General:**

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

**Conditions of Approval:**

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

**Notification Requirements:**

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

- Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284 (please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <http://oilgas.ogm.utah.gov>

**Reporting Requirements:**

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

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5th day of the following calendar month

- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

**Approved By:**

A handwritten signature in black ink, appearing to read "John Rogers", written in a cursive style.

For John Rogers  
Associate Director, Oil & Gas

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**RECEIVED**

JUN 28 2011

FORM APPROVED  
OMB No. 1004-0136  
Expires July 31, 2010

**APPLICATION FOR PERMIT TO DRILL OR REENTER**

**BLM**

**CONFIDENTIAL**

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU02025
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator QEP ENERGY COMPANY Contact: VALYN DAVIS E-Mail: Valyn.Davis@qepres.com		7. If Unit or CA Agreement, Name and No. UTU63010X
3a. Address 11002 EAST 17500 SOUTH VERNAL, UT 84078		8. Lease Name and Well No. RW 23A-28B
3b. Phone No. (include area code) Ph: 435-781-4369 Fx: 435-781-4395		9. API Well No. 43-047-51722
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface SESW 1097FSL 2511FWL 40.176317 N Lat, 109.332558 W Lon At proposed prod. zone SESW 1097FSL 2511FWL 40.176317 N Lat, 109.332558 W Lon		10. Field and Pool, or Exploratory RED WASH
14. Distance in miles and direction from nearest town or post office* 24		11. Sec., T., R., M., or Blk. and Survey or Area Sec 28 T7S R23E Mer SLB SME: BLM
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1097	16. No. of Acres in Lease 1920.00	12. County or Parish UINTAH
17. Spacing Unit dedicated to this well 20.00	13. State UT	17. Spacing Unit dedicated to this well 20.00
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 750	19. Proposed Depth 11104 MD 11104 TVD	20. BLM/BIA Bond No. on file ESB000024
21. Elevations (Show whether DF, KB, RT, GL, etc.) 5542 GL	22. Approximate date work will start 11/01/2011	23. Estimated duration 30 DAYS

24. Attachments

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

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the 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.

25. Signature (Electronic Submission)	Name (Printed/Typed) VALYN DAVIS Ph: 435-781-4369	Date 06/28/2011
Title REGULATORY AFFAIRS ANALYST		
Approved by (Signature) 	Name (Printed/Typed) Jerry Kenczka	Date JAN 17 2012
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

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

**CONDITIONS OF APPROVAL ATTACHED**

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

Electronic Submission #111833 verified by the BLM Well Information System  
For QEP ENERGY COMPANY, sent to the Vernal  
Committed to AFMSS for processing by ROBIN R. HANSEN on 07/01/2011 (11RRH3191AE)

**RECEIVED**

JAN 27 2012

DIV. OF OIL, GAS & MIN  
**NOTICE OF APPROVAL**

\*\* BLM REVISED \*\*

**UDOGM**

115XSD676AE

NOS 5/26/2011



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: QEP Energy Company  
Well No: RW 23A-28B  
API No: 43-047-51722

Location: SESW, Sec. 28, T7S, R23E  
Lease No: UTU-02025  
Agreement: Red Wash Unit

**OFFICE NUMBER: (435) 781-4400**

**OFFICE FAX NUMBER: (435) 781-3420**

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

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

**NOTIFICATION REQUIREMENTS**

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

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

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO<sub>x</sub> per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO<sub>x</sub> per horsepower-hour.
- 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.
- All vehicles and equipment shall be cleaned either through power-washing, or other approved method, if the vehicles or equipment were brought in from areas outside the Uinta Basin, to prevent weed seed introduction.
- All disturbance areas shall be monitored for noxious weeds annually, for a minimum of three growing seasons following completion of project or until desirable vegetation is established.
- Reclamation will be completed in accordance with the Questar Exploration and Production Company, Uintah Basin Division's Reclamation Plan on file with the Vernal Field Office of the BLM.
- In the event historic or archaeological resources are uncovered during construction, work will stop immediately and the appropriate BLM AO will be notified.
- A Paleontologist acceptable to the BLM will monitor construction activity for surface disturbing activities described in the APD. If paleontologic resources are uncovered during construction activities, the operator shall immediately suspend all operations that will further disturb such resources, and immediately notify the Authorized Officer (AO). The AO will arrange for a determination of significance and, if necessary, recommend a recovery or avoidance plan.
- QEP has agreed not to construct or drill during the following dates, unless otherwise determined by the BLM Authorized Officer.

<b>Well Name</b>	<b>Burrowing Owl March 1 to August 31</b>	<b>Red Tailed Hawk March 1 to August 15</b>	<b>Ferruginous Hawk March 1 to August 1</b>
RW 12A2-28B	Yes	No	No
RW 12C3-25B	No	No	Yes
RW 12D1-25B	No	No	Yes
RW 12D4-25B	No	No	Yes
RW 13D2-24A	Yes	Yes	No
RW 14D3-24A	Yes	Yes	No
RW 23A-28B	No	No	No

- All internal combustion equipment will be kept in good working order.
- Water or other approved dust suppressants will be used at construction sites and along roads, as determined appropriate by the Authorized Officer.
- Open burning of garbage or refuse will not occur at well sites or other facilities.
- Drill rigs will be equipped with Tier II or better diesel engines.
- Low bleed pneumatics will be installed on separator dump valves and other controllers. The use of low bleed pneumatics will result in a lower emission of VOCs.
- During completion, flaring will be limited as much as possible. Production equipment and gathering lines will be installed as soon as possible.
- Well site telemetry would be utilized as feasible for production operations.
- Following well plugging and abandonment, the location, access roads, pipelines, and other facilities shall be reclaimed. All disturbed surfaces shall be reshaped to approximate the original contour; the top soil respread over the surface; and, the surface revegetated. The surface of approved staging areas where construction activities did not occur may require disking or ripping and reseeding.
- The best method to avoid entrainment is to pump from an off-channel location – one that does not connect to the river during high spring flows. An infiltration gallery constructed in a BLM and Service approved location is best.
- If the pump head is located in the river channel where larval fish are known to occur, the following measures apply:
  - do not situate the pump in a low-flow or no-flow area as these habitats tend to concentrate larval fishes;
  - limit the amount of pumping, to the greatest extent possible, during that period of the year when larval fish may be present (April 1 to August 31); and
  - limit the amount of pumping, to the greatest extent possible, during the pre-dawn hours as larval drift studies indicate that this is a period of greatest daily activity.
- Screen all pump intakes with 3/32" mesh material.
- Approach velocities for intake structures will follow the National Marine Fisheries Service's document "Fish Screening Criteria for Anadromous Salmonids." For projects with an in-stream intake that operate in stream reaches where larval fish may be present, the approach velocity will not exceed 0.33 feet per second (ft/s).
- Report any fish impinged on the intake screen to the Service (801.975.3330) and the Utah Division of Wildlife Resources:
  - Northeastern Region
  - 152 East 100 North, Vernal, UT 84078
  - Phone: (435) 781-9453

**DOWNHOLE PROGRAM  
CONDITIONS OF APPROVAL (COAs)**

**SITE SPECIFIC DOWNHOLE COAs:**

- Gamma Ray Log shall be run from Total Depth to Surface.

Variations Granted

Air Drilling

- Properly lubricated and maintained rotating head. Variance granted to use a properly maintained and lubricated diverter bowl in place of a rotating head.
- Blooie line discharge 100' from the well bore, variance granted for blooie line discharge to be 45' from the well bore.
- Compressors located in the opposite direction from the blooie line a minimum of 100' from the well bore. Variance granted for truck/trailer mounted air compressors located within 40 ft of well.
- In lieu of mud products on location, operator will fill the reserve pit with water for kill fluid.
- Automatic igniter. Variance granted for igniter due to there being no productive formations while air drilling.
- Flare Pit. Variance granted, there is no need of a flare while drilling the surface hole.

**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.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.

- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to BLM\_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.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at [www.ONRR.gov](http://www.ONRR.gov).
- 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.

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	
<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU02025	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>1. TYPE OF WELL</b> Gas Well	<b>7. UNIT or CA AGREEMENT NAME:</b> RED WASH
<b>2. NAME OF OPERATOR:</b> QEP ENERGY COMPANY	<b>8. WELL NAME and NUMBER:</b> RW 23A-28B
<b>3. ADDRESS OF OPERATOR:</b> 11002 East 17500 South , Vernal, Ut, 84078	<b>9. API NUMBER:</b> 43047517220000
<b>PHONE NUMBER:</b> 303 308-3068 Ext	<b>9. FIELD and POOL or WILDCAT:</b> RED WASH
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1097 FSL 2511 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESW Section: 28 Township: 07.0S Range: 23.0E Meridian: S	<b>COUNTY:</b> UINTAH
	<b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 6/29/2013	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input checked="" type="checkbox"/> <b>APD EXTENSION</b>
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

QEP ENERGY COMPANY HEREBY REQUESTS A ONE YEAR EXTENSION FOR THE APD ON THE ABOVE CAPTIONED WELL.

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

**Date:** July 03, 2012

**By:**

<b>NAME (PLEASE PRINT)</b> Valyn Davis	<b>PHONE NUMBER</b> 435 781-4369	<b>TITLE</b> Regulatory Affairs Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 6/28/2012	



**The Utah Division of Oil, Gas, and Mining**

- State of Utah  
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

**Request for Permit Extension Validation Well Number 43047517220000**

API: 43047517220000

Well Name: RW 23A-28B

Location: 1097 FSL 2511 FWL QTR SESW SEC 28 TWNP 070S RNG 230E MER S

Company Permit Issued to: QEP ENERGY COMPANY

Date Original Permit Issued: 6/29/2011

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

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

Signature: Valyn Davis

Date: 6/28/2012

Title: Regulatory Affairs Analyst Representing: QEP ENERGY COMPANY

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU02025
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <b>7. UNIT or CA AGREEMENT NAME:</b> RED WASH
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> RW 23A-28B
<b>2. NAME OF OPERATOR:</b> QEP ENERGY COMPANY	<b>9. API NUMBER:</b> 43047517220000
<b>3. ADDRESS OF OPERATOR:</b> 11002 East 17500 South , Vernal, Ut, 84078	<b>PHONE NUMBER:</b> 303 308-3068 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1097 FSL 2511 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESW Section: 28 Township: 07.0S Range: 23.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> RED WASH  <b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: <b>11/10/2012</b>  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> <b>CHANGE TO PREVIOUS PLANS</b> <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>

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

QEP ENERGY COMPANY REQUESTS TO CHANGE THE DRILLING PLAN ON THE ABOVE MENTIONED WELL. THE 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 9.5 PPG. QEP ENERGY COMPANY REQUESTS TO SET 90' OF 14" CONDUCTOR.

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

**Date:** November 08, 2012

**By:** *Derek Quist*

<b>NAME (PLEASE PRINT)</b> Valyn Davis	<b>PHONE NUMBER</b> 435 781-4369	<b>TITLE</b> Regulatory Affairs Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 11/7/2012	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9  5. LEASE DESIGNATION AND SERIAL NUMBER: UTU02025
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:  7. UNIT or CA AGREEMENT NAME: RED WASH
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: RW 23A-28B
2. NAME OF OPERATOR: QEP ENERGY COMPANY	9. API NUMBER: 43047517220000
3. ADDRESS OF OPERATOR: 11002 East 17500 South , Vernal, Ut, 84078	PHONE NUMBER: 303 308-3068 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1097 FSL 2511 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 28 Township: 07.0S Range: 23.0E Meridian: S	9. FIELD and POOL or WILDCAT: RED WASH  COUNTY: UINTAH  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"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 12/6/2012  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION  OTHER: <input style="width: 100px;" type="text"/>

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

QEP ENERGY COMPANY REQUESTS TO CHANGE THE CASING ON THE ABOVE MENTIONED WELL. QEP ENERGY COMPANY REQUESTS TO ADD AN INTERMEDIATE CASING STRING TO PREVENT THE WIRE LINE FROM BECOMING STUCK DURING LOGGING OPERATIONS. PLEASE SEE ATTACHED.

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

Date: December 20, 2012

By: *Derek Quist*

<b>NAME (PLEASE PRINT)</b> Valyn Davis	<b>PHONE NUMBER</b> 435 781-4369	<b>TITLE</b> Regulatory Affairs Analyst
<b>SIGNATURE</b> N/A		<b>DATE</b> 12/6/2012

QEP ENERGY COMPANY  
 RW 23A-28B  
 43-047-51722

QEP Energy Company requests to change the casing as follows:

We are going to run 7" 26#, HCP-110 LTC casing as an intermediate string. This casing string will be run from surface to 6,500' MD. The 4.5" casing will be run with a 6 1/8" hole from 6,500 to 11,104' MD.

**Pipe Info:**

**Casing Program**

Hole Size	Casing Size	Top, MD	Bottom, MD	Weight, lb/ft	Grade	Thread	Condition	MW
8 3/4"	7"	sfc	6,500'	26.0	HCP-110	LTC	New	8-9 ppg
6 1/8"	4 1/2"	6,500'	11,104'	11.6	HCP-110	LTC	New	10.5

**Strengths:**

Casing Strengths:				Collapse	Burst	Tensile (minimum)
7"	26.0 lb.	HCP-110	LTC	7,800 psi	9,950 psi	693,000 lb.
4 1/2"	11.6#	HCP-110	LTC	8,830 psi	10,710 psi	279,000 lb.

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
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		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
		<b>7. UNIT or CA AGREEMENT NAME:</b> RED WASH
<b>1. TYPE OF WELL</b> Gas Well		<b>8. WELL NAME and NUMBER:</b> RW 23A-28B
<b>2. NAME OF OPERATOR:</b> QEP ENERGY COMPANY		<b>9. API NUMBER:</b> 43047517220000
<b>3. ADDRESS OF OPERATOR:</b> 11002 East 17500 South , Vernal, Ut, 84078		<b>9. FIELD and POOL or WILDCAT:</b> RED WASH
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1097 FSL 2511 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESW Section: 28 Township: 07.0S Range: 23.0E Meridian: S		<b>COUNTY:</b> UINTAH
		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 1/28/2013	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. ON 01/28/2013, QEP ENERGY COMPANY SET 90' OF 14" CONDUCTOR PIPE AND CEMENTED IT WITH READY MIX.		
<b>Accepted by the          Utah Division of          Oil, Gas and Mining          FOR RECORD ONLY          January 31, 2013</b>		
<b>NAME (PLEASE PRINT)</b> Valyn Davis	<b>PHONE NUMBER</b> 435 781-4369	<b>TITLE</b> Regulatory Affairs Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 1/30/2013	

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

FORM 6

**ENTITY ACTION FORM**

Operator: QEP ENERGY COMPANY  
Address: 11002 EAST 17500 SOUTH  
city VERNAL  
state UT zip 84078

Operator Account Number: N 3700  
Phone Number: (435) 781-4369

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751722	RW 23A-28B		SESW	28	7S	23E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
B	99999	18478	1/28/2013		1/31/13		
Comments: WMMFD							<b>CONFIDENTIAL</b>

Well 2

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

Well 3

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

**ACTION CODES:**

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

Valyn Davis

Name (Please Print)

Signature

Regulatory Affairs Analyst

Title

1/30/2013

Date

**RECEIVED**  
JAN 30 2013

BLM - Vernal Field Office - Notification Form

Operator QEP Rig Name/# PETE MARTIN RATHOLE  
Submitted By JIMMY KITTRELL Phone Number 435-828-0315  
Well Name/Number RW 23A-28B  
Qtr/Qtr SE/SW Section 28 Township 7 S Range 23 E  
Lease Serial Number UTU 63010X  
API Number ~~43-047-51903-00-X1~~ 43 047 51922

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 1/28/13 08:00 AM   
PM

Casing – Please report time casing run starts, not cementing times.

- Surface Casing
- Intermediate Casing
- Production Casing
- Liner
- Other

Date/Time \_\_\_\_\_ AM  PM

BOPE

- Initial BOPE test at surface casing point
- BOPE test at intermediate casing point
- 30 day BOPE test
- Other

Date/Time \_\_\_\_\_ AM  PM

RECEIVED

JAN 25 2013

DIV. OF OIL, GAS & MINING

CONFIDENTIAL

Remarks IF NO TROUBLE, THESE TIMES WILL BE CLOSE. DRILL  
& SET CONDUCTOR API # 43-047-51722 1/28/13 @ 08:00

AM

---

BLM - Vernal Field Office - Notification Form

Operator QEP Rig Name/# SST 54 Submitted By  
MURRAY BECKER Phone Number 435-828-0315  
Well Name/Number RW 23A-28B  
Qtr/Qtr SE/SW Section 28 Township 7 S Range 23 E  
Lease Serial Number UTU 02025  
API Number 43-047-51722-00-X1

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time \_\_\_\_\_ AM  PM

Casing – Please report time casing run starts, not cementing times.

- Surface Casing
- Intermediate Casing
- Production Casing
- Liner
- Other

Date/Time 3/10/13 @ 13:00 AM  PM

BOPE

- Initial BOPE test at surface casing point
- BOPE test at intermediate casing point
- 30 day BOPE test
- Other

Date/Time 03/11/13 @ 03:00 AM  PM

Remarks IF NO TROUBLE THESE TIMES WILL BE CLOSE. RUN 9  
5/8 SURFACE PIPE AND TEST BOP. API # 43-047-51722-00-X1  
3/10/13.

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<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU02025
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> QEP ENERGY COMPANY		<b>7. UNIT or CA AGREEMENT NAME:</b> RED WASH
<b>3. ADDRESS OF OPERATOR:</b> 11002 East 17500 South , Vernal, Ut, 84078		<b>8. WELL NAME and NUMBER:</b> RW 23A-28B
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1097 FSL 2511 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESW Section: 28 Township: 07.0S Range: 23.0E Meridian: S		<b>9. API NUMBER:</b> 43047517220000
<b>PHONE NUMBER:</b> 303 308-3068 Ext		<b>9. FIELD and POOL or WILDCAT:</b> RED WASH
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 4/11/2013	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. THIS WELL COMMENCED PRODUCTION ON APRIL 11, 2013 @ 5:30 A.M.		
<b>Accepted by the          Utah Division of          Oil, Gas and Mining          FOR RECORD ONLY          April 15, 2013</b>		
<b>NAME (PLEASE PRINT)</b> Valyn Davis	<b>PHONE NUMBER</b> 435 781-4369	<b>TITLE</b> Regulatory Affairs Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 4/11/2013	

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

AMENDED REPORT  FORM 8  
(highlight changes)

5. LEASE DESIGNATION AND SERIAL NUMBER:  
**UTU02025**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

7. UNIT or CA AGREEMENT NAME  
**RED WASH**

8. WELL NAME and NUMBER:  
**RW 23A-28B**

9. API NUMBER:  
**4304751722**

10. FIELD AND POOL, OR WLDCAT  
**RED WASH**

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:  
**SESW 28 7S 23E**

12. COUNTY  
**UINTAH**

13. STATE  
**UTAH**

17. ELEVATIONS (DF, RKB, RT, GL):  
**5542' GL**

21. DEPTH BRIDGE MD  
PLUG SET: TVD

23. WAS WELL CORED? NO  YES  (Submit analysis)  
WAS DST RUN? NO  YES  (Submit report)  
DIRECTIONAL SURVEY? NO  YES  (Submit copy)

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

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
12.25	9.625 N-80	40	0	3,804		810	373	440	
8.75	4.5 P-1 1/2	11.6	3,815	8,310		1,800	664		
8.5	4.5 P-1 1/2	11.6	8,310	11,172					

25. TUBING RECORD

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

26. PRODUCING INTERVALS					27. PERFORATION RECORD				
FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS	
(A) MESA VERDE	7,506	10,965			7,506 10,965	.42	268	Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
(B)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
7,506 - 10,965	13,740 BBLS SLICKWATER/FRESHWATER; 209,400 LBS 30/50 SAND

29. ENCLOSED ATTACHMENTS:

- ELECTRICAL/MECHANICAL LOGS       GEOLOGIC REPORT       DST REPORT       DIRECTIONAL SURVEY  
 SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION       CORE ANALYSIS       OTHER: OPS SUMMARY

30. WELL STATUS:

**PGW**

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 4/11/2013		TEST DATE: 4/15/2013		HOURS TESTED: 24		TEST PRODUCTION RATES: →		OIL - BBL: 83	GAS - MCF: 3,542	WATER - BBL: 900	PROD. METHOD: FLOWS
CHOKE SIZE: 24	TBG. PRESS. 0	CSG. PRESS. 2,278	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL: 83	GAS - MCF: 3,542	WATER - BBL: 900	INTERVAL STATUS:	

INTERVAL B (As shown in item #26)

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

INTERVAL C (As shown in item #26)

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

INTERVAL D (As shown in item #26)

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

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

SOLD

33. SUMMARY OF POROUS ZONES (Include Aquifers):

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

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				GREEN RIVER	2,959
				BIRDS NEST	3,350
				MAHOGANY	3,980
				WASATCH	6,388
				MESA VERDE	8,546
				SEGO	10,994

35. ADDITIONAL REMARKS (Include plugging procedure)

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

NAME (PLEASE PRINT) BENNA MUTH TITLE REGULATORY ASSISTANT - CONTRACT  
 SIGNATURE *Benna Muth* DATE 5/7/2013

This report must be submitted within 30 days of

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

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

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

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



QEP Energy Company

## Daily Activity and Cost Summary

Well Name: RW 23A-28B

API 43-047-51722	Surface Legal Location S28-T7S-R23E	Field Name RED WASH	County UINTAH	State UTAH	Well Configuration Type Vertical	
Unique Well ID UT101262	Ground Elevation (ft) 5,536.3	Casing Flange Elevation (ft) 5,536.30	Current KB to GL (ft) 17.00	KB to CF (ft) 17.00	Spud Date 2/8/2013 06:00	Dry Hole TD Date 3/24/2013 06:00
Job Category DRILLING	Primary Job Type AFE - DRL-DR (Drilling)		Secondary Job Type DEVELOPMENT		Objective	
Start Date 3/4/2013			Job End Date 3/24/2013			

Purpose

Summary

Contractor Pete Martin Drilling	RIG PETE MARTIN 1	Rig Type AUGER RIG
Contractor SST Energy	RIG SST 54	Rig Type TOP DRIVE

RPT #	Start Date	Summary
1	2/8/2013	PRE-SPUD COSTS
2	3/4/2013	RIG DOWN, MOVE RIG, START SETTING IN
3	3/5/2013	MOVE RIG TO LOCATION, PULL DERRICK OFF FLOOR, HAUL AND SET MUD TANKS & MUD PUMP
4	3/6/2013	RAISE DERRICK, PICK UP TOP DRIVE, RIG UP BY HAND, WELD ON SAFETY ITEMS. WELD CONDUCTOR AND RIG UP. PICK UP BHA AND ORIENT
5	3/7/2013	TEST MUD LINES, DRILL 12.25 SURFACE HOLE, WIPPER TRIP AT 1747' TO MONELS.
6	3/8/2013	SHORT TRIP TO CONDUCTOR AT 1747', CLEAN SHAKER TANK, DRILL 12 1/4 HOLE, RIG SERVICE, WIPPER TRIP 1000" AT 2793'.
7	3/9/2013	DRILL 12 1/4 HOLE TO TD AT 3815'
8	3/10/2013	TRIP OUT, PJSM LAY DOWN BHA, PJSM AND RIG UP CASERS, PJSM AND RUN 9 5/8 CASING, WASH CASING TO BOTTOM, CIRCULATE CASING, PJSM AND RIG DOWN CASERS, PJSM RIG UP CEMENTERS AND CEMENT, RIG DOWN CASERS, WOC, PJSM CLEAN PITS AND PREP FOR NU
9	3/11/2013	WOC, CUT OFF CONDUCTOR AND WELD ON WELL HEAD, NIPPLE UP BOP, TEST BOP, DRILL FLOAT EQUIP, FIT, DRILL AHEAD
10	3/12/2013	DRILL 8 3/4 HOLE, SURVEYS AND RIG SERVICE
11	3/13/2013	DRILLING 8 3/4 HOLE, SURVEYS, RIG SERVICE.
12	3/14/2013	DRILLING, RIG SURVEY, RIG SERVICE.
13	3/15/2013	DRILLING, TRIP FOR BIT AND MOTOR
14	3/16/2013	DRILLING, RIG SERVICE, RESURVEY AT 9027
15	3/17/2013	DRILL, RIG SERVICE, TRIP FOR MOTOR AND BIT
16	3/18/2013	TRIP IN HOLE, REAM TO BOTTOM, DRILL, SURVEYS
17	3/19/2013	DRILL 8 1/2 HOLE, SURVEY, CIRCULATE, WIPER TRIP TO 8247', CIRCULATE.
18	3/20/2013	CIRC,TRIP,LOG
19	3/21/2013	LOG,TRIP,CIRC, TRIP, LAY DOWN PIPE
20	3/22/2013	LAY DOWN PIPE, RIG UP CASING CREW, RUN CASING
21	3/23/2013	RUN CASING, RIG DOWN CASING CREW, PUMP CEMENT, LIFT STACK, SET SLIPS, CLEAN PITS



QEP Energy Company

## Stimulations

Well Name: RW 23A-28B

API 43-047-51722		Surface Legal Location S28-T7S-R23E		Field Name RED WASH		County UINTAH		State UTAH		Well Configuration Type Vertical	
Unique Well ID UT101262		Gr Elev (ft) 5,536.3	Current Elevation 5,553.30, SST 54 - KB 17			KB to CF (ft) 17.00	Spud Date 2/8/2013 06:00		Dry Hole TD Date 3/24/2013 06:00		Total Depth (All) (ft, KB) Original Hole - 11,172.0
<b>Production Casing</b>											
Csg Des		Run Date		Set Depth (ft, KB)		OD (in)		Wt/Len (lb/ft)		Grade	
Production		3/22/2013		11,163.4		4 1/2		11.60		P110	
<b>Perforations</b>											
Date		Completion		Top (ft, KB)		Btm (ft, KB)		Current Status			
4/5/2013		MESAVERDE, Original Hole		10,864.0		10,866.0		Open - Flowing			
4/5/2013		MESAVERDE, Original Hole		10,877.0		10,879.0		Open - Flowing			
4/5/2013		MESAVERDE, Original Hole		10,892.0		10,894.0		Open - Flowing			
4/5/2013		MESAVERDE, Original Hole		10,916.0		10,918.0		Open - Flowing			
4/5/2013		MESAVERDE, Original Hole		10,926.0		10,928.0		Open - Flowing			
4/5/2013		MESAVERDE, Original Hole		10,938.0		10,940.0		Open - Flowing			
4/5/2013		MESAVERDE, Original Hole		10,952.0		10,954.0		Open - Flowing			
4/5/2013		MESAVERDE, Original Hole		10,963.0		10,965.0		Open - Flowing			
<b>Stimulations &amp; Treatments</b>											
Date 4/9/2013		Type Sand Frac		Stim/Treat Company Halliburton Energy Services		Completion MESAVERDE, Original Hole		Job AFE - DRL-CT (completion), 4/3/2013 06:00			
Pre Treatment Shut-in Pressure (psi) 1,912.0		Instant. Shut-in Pressure (psi) 2,197.0		Proppant In Formation (lb)		Proppant In Wellbore (lb)		Shut-in Time Final (hr)			
Comment Frac Stage 1 (Mesaverde 10,864' - 10,965') with 4,703 BBLs slickwater carrying 105,800 LBS 30/50 premium white sand. Traced each stage with Protechnics tracer. AVG. Rate = 50.42 BPM and AVG. pressure = 4,331 PSI. ISIP - 2,434 PSI. FG - 0.66											
<b>Stim/Treat Fluids</b>											
<b>Slickwater</b>											
Fluid Name Slickwater		Fluid Type Fresh Water		Description							
Additive		Units		Concentration (%)							
<b>Delta 200-R</b>											
Fluid Name Delta 200-R		Fluid Type Fresh Water		Description							
Additive		Units		Concentration (%)							
<b>Stim/Treat Stages</b>											
<b>1, Sand</b>											
Stage Number 1		Stage Type Sand		Start Date 4/9/2013 06:00		End Date 4/9/2013 08:00		Top Depth (ft, KB) 10,864.0		Bottom Depth (ft, KB) 10,965.0	
Casing Pressure Start (psi) 1,912.0		Casing Pressure End (psi) 2,434.0		Clean Volume Pumped (bbl) 4703.00							
Stim/Treat Fluid Slickwater, Fresh Water		Comment									
Additive Proppant		Type Premium White - Sandwedge C...	Amount 105,800.0		Units lb	Sand Size 30/50	Conc (lb/gal) 0.25	Note			
<b>2, Sand</b>											
Stage Number 2		Stage Type Sand		Start Date 4/9/2013 09:30		End Date 4/9/2013 11:00		Top Depth (ft, KB) 10,687.0		Bottom Depth (ft, KB) 10,830.0	
Casing Pressure Start (psi) 2,047.0		Casing Pressure End (psi) 2,443.0		Clean Volume Pumped (bbl) 4505.00							
Stim/Treat Fluid Slickwater, Fresh Water		Comment									
Additive Proppant		Type Premium White - Sandwedge C...	Amount 103,600.0		Units lb	Sand Size 30/50	Conc (lb/gal) 0.25	Note			
<b>3, Sand</b>											
Stage Number 3		Stage Type Sand		Start Date 4/9/2013 12:30		End Date 4/9/2013 15:30		Top Depth (ft, KB) 10,478.0		Bottom Depth (ft, KB) 10,632.0	
Casing Pressure Start (psi) 2,168.0		Casing Pressure End (psi) 2,795.0		Clean Volume Pumped (bbl) 7473.00							
Stim/Treat Fluid Slickwater, Fresh Water		Comment									
Additive		Type	Amount		Units	Sand Size	Conc (lb/gal)	Note			



### Stimulations

QEP Energy Company

Well Name: RW 23A-28B

API 43-047-51722	Surface Legal Location S28-T7S-R23E	Field Name RED WASH	County UINTAH	State UTAH	Well Configuration Type Vertical	
Unique Well ID UT101262	Gr Elev (ft) 5,536.3	Current Elevation 5,553.30, SST 54 - KB 17	KB to CF (ft) 17.00	Spud Date 2/8/2013 06:00	Dry Hole TD Date 3/24/2013 06:00	Total Depth (All) (ft, KB) Original Hole - 11,172.0

**Stim/Treat Stages**

**4, Sand**

Stage Number 4	Stage Type Sand	Start Date 4/9/2013 16:30	End Date 4/9/2013 18:45	Top Depth (ft, KB) 10,041.0	Bottom Depth (ft, KB) 10,386.0
Casing Pressure Start (psi) 2,228.0		Casing Pressure End (psi) 2,623.0		Clean Volume Pumped (bbl) 5320.00	

Stim/Treat Fluid  
Slickwater, Fresh Water

Additive	Type	Amount	Units	Sand Size	Conc (lb/gal)	Note
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**5, Sand**

Stage Number 5	Stage Type Sand	Start Date 4/9/2013 20:30	End Date 4/9/2013 21:00	Top Depth (ft, KB) 7,506.0	Bottom Depth (ft, KB) 7,524.0
Casing Pressure Start (psi) 1,721.0		Casing Pressure End (psi) 2,197.0		Clean Volume Pumped (bbl) 947.00	

Stim/Treat Fluid  
Delta 200-R, Fresh Water

Additive	Type	Amount	Units	Sand Size	Conc (lb/gal)	Note
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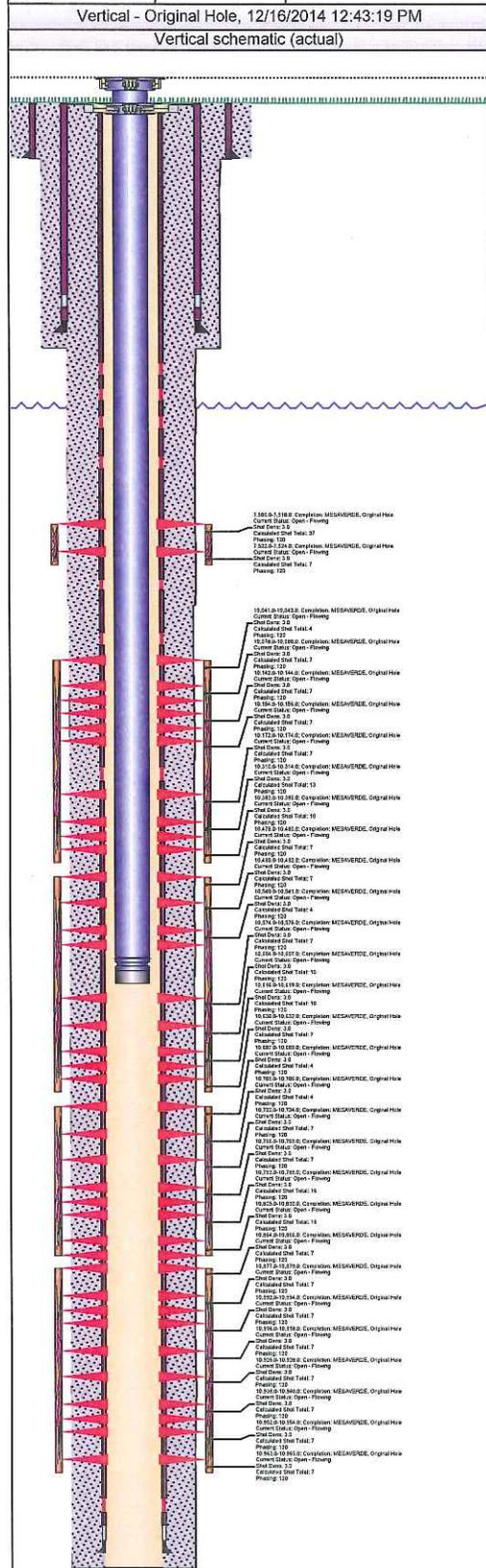
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# Perforations

Well Name: RW 23A-28B

API 43-047-51722	Surface Legal Location S28-T7S-R23E	Field Name RED WASH	County UINTAH	State UTAH	Well Configuration Type Vertical
Unique Well ID UT101262	Gr Elev (ft) 5,536.3	Current Elevation 5,553.30, SST 54 - KB 17	KB to CF (ft) 17.00	Spud Date 2/8/2013 06:00	Dry Hole TD Date 3/24/2013 06:00
			Total Depth (All) (ft, KB) Original Hole - 11,172.0		





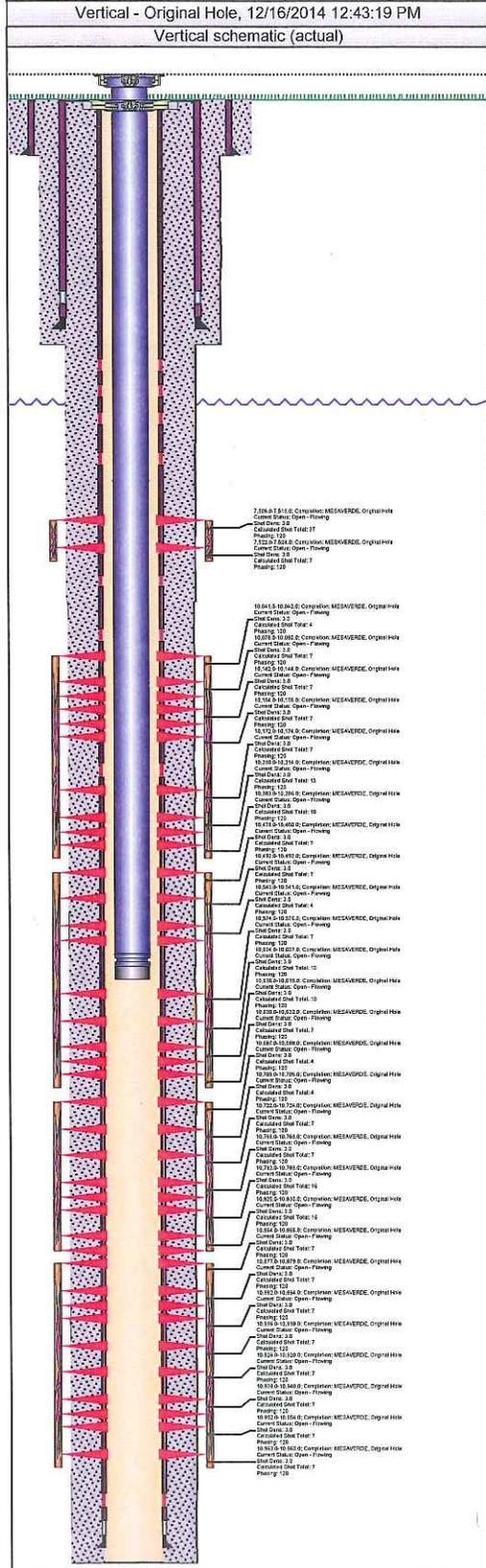


QEP Energy Company

# Perforations

Well Name: RW 23A-28B

API 43-047-51722	Surface Legal Location S28-T7S-R23E	Field Name RED WASH	County UINTAH	State UTAH	Well Configuration Type Vertical
Unique Well ID UT101262	Gr Elev (ft) 5,536.3	Current Elevation 5,553.30, SST 54 - KB 17	KB to CF (ft) 17.00	Spud Date 2/8/2013 06:00	Dry Hole TD Date 3/24/2013 06:00
Vertical - Original Hole, 12/16/2014 12:43:19 PM			Total Depth (All) (ft, KB) Original Hole - 11,172.0		



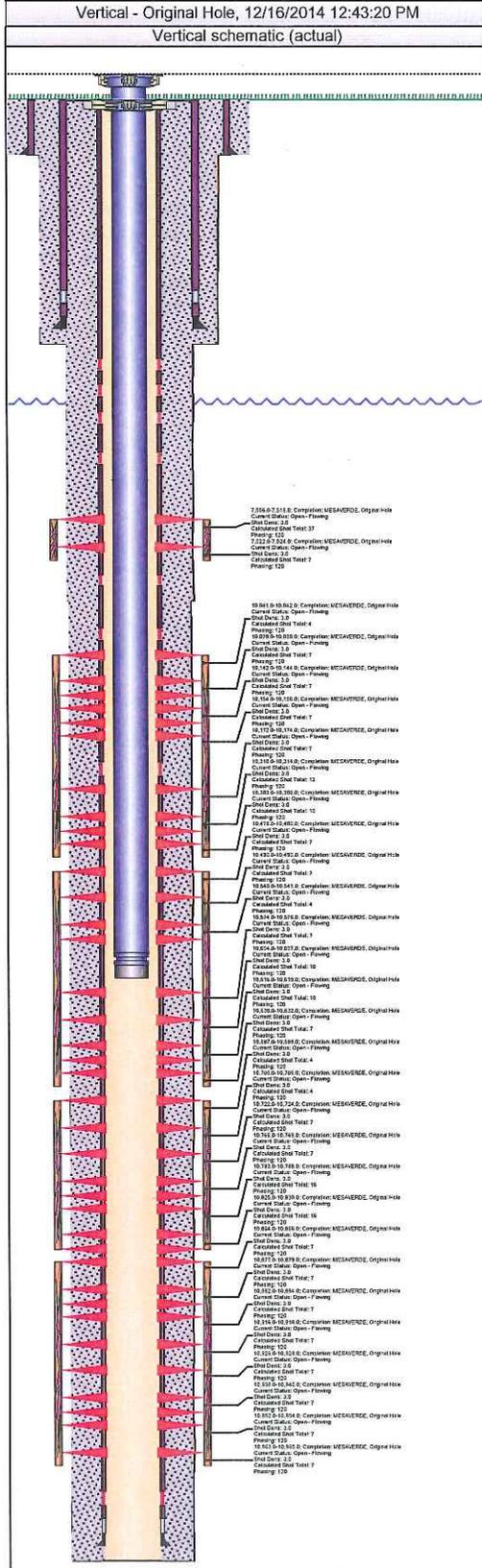
Perforation Statuses					
Date	Status	Com			
4/9/2013	Open - Flowing				
Date 4/9/2013	Completion MESAVERDE, Original Hole	Top Depth (ft, KB) 10,383.0	Bottom Depth (ft, KB) 10,386.0		
Perforation Company Lone Wolf ELU	Conveyance Method Wireline	Gun Size (in) 2.752	Carrier Make Baker Atlas		
Shot Density (shots/ft) 3.0	Charge Type	Phasing (°) 120			
Orientation		Orientation Method			
Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB)	FL MD After (ft, KB)	P Surf Init (psi)	P Final Surf (psi)
Reference Log Cement Bond, 0.0-11,124.0ft, KB					
Calculated Shot Total 10					
Perforation Statuses					
Date	Status	Com			
4/9/2013	Open - Flowing				
Date 4/9/2013	Completion MESAVERDE, Original Hole	Top Depth (ft, KB) 10,478.0	Bottom Depth (ft, KB) 10,480.0		
Perforation Company Lone Wolf ELU	Conveyance Method Wireline	Gun Size (in) 2.752	Carrier Make Baker Atlas		
Shot Density (shots/ft) 3.0	Charge Type	Phasing (°) 120			
Orientation		Orientation Method			
Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB)	FL MD After (ft, KB)	P Surf Init (psi)	P Final Surf (psi)
Reference Log Cement Bond, 0.0-11,124.0ft, KB					
Calculated Shot Total 7					
Perforation Statuses					
Date	Status	Com			
4/9/2013	Open - Flowing				
Date 4/9/2013	Completion MESAVERDE, Original Hole	Top Depth (ft, KB) 10,490.0	Bottom Depth (ft, KB) 10,492.0		
Perforation Company Lone Wolf ELU	Conveyance Method Wireline	Gun Size (in) 2.752	Carrier Make Baker Atlas		
Shot Density (shots/ft) 3.0	Charge Type	Phasing (°) 120			
Orientation		Orientation Method			
Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB)	FL MD After (ft, KB)	P Surf Init (psi)	P Final Surf (psi)
Reference Log Cement Bond, 0.0-11,124.0ft, KB					
Calculated Shot Total 7					
Perforation Statuses					
Date	Status	Com			
4/9/2013	Open - Flowing				
Date 4/9/2013	Completion MESAVERDE, Original Hole	Top Depth (ft, KB) 10,540.0	Bottom Depth (ft, KB) 10,541.0		
Perforation Company Lone Wolf ELU	Conveyance Method Wireline	Gun Size (in) 2.752	Carrier Make Baker Atlas		
Shot Density (shots/ft) 3.0	Charge Type	Phasing (°) 120			
Orientation		Orientation Method			
Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB)	FL MD After (ft, KB)	P Surf Init (psi)	P Final Surf (psi)
Reference Log Cement Bond, 0.0-11,124.0ft, KB					
Calculated Shot Total 4					



# Perforations

Well Name: RW 23A-28B

API 43-047-51722	Surface Legal Location S28-T7S-R23E	Field Name RED WASH	County UINTAH	State UTAH	Well Configuration Type Vertical
Unique Well ID UT101262	Gr Elev (ft) 5,536.3	Current Elevation 5,553.30, SST 54 - KB 17	KB to CF (ft) 17.00	Spud Date 2/8/2013 06:00	Dry Hole TD Date 3/24/2013 06:00
Total Depth (All) (ft, KB) Original Hole - 11,172.0					



Perforation Statuses					
Date	Status	Com			
4/9/2013	Open - Flowing				
Date 4/9/2013	Completion MESAVERDE, Original Hole	Top Depth (ft, KB) 10,574.0	Bottom Depth (ft, KB) 10,576.0		
Perforation Company Lone Wolf ELU	Conveyance Method Wireline	Gun Size (in) 2.752	Carrier Make Baker Atlas		
Shot Density (shots/ft) 3.0	Charge Type	Phasing (°) 120			
Orientation		Orientation Method			
Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB)	FL MD After (ft, KB)	P Surf Init (psi)	P Final Surf (psi)
Reference Log Cement Bond, 0.0-11,124.0ft, KB					
Calculated Shot Total 7					
Perforation Statuses					
Date	Status	Com			
4/9/2013	Open - Flowing				
Date 4/9/2013	Completion MESAVERDE, Original Hole	Top Depth (ft, KB) 10,604.0	Bottom Depth (ft, KB) 10,607.0		
Perforation Company Lone Wolf ELU	Conveyance Method Wireline	Gun Size (in) 2.752	Carrier Make Baker Atlas		
Shot Density (shots/ft) 3.0	Charge Type	Phasing (°) 120			
Orientation		Orientation Method			
Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB)	FL MD After (ft, KB)	P Surf Init (psi)	P Final Surf (psi)
Reference Log Cement Bond, 0.0-11,124.0ft, KB					
Calculated Shot Total 10					
Perforation Statuses					
Date	Status	Com			
4/9/2013	Open - Flowing				
Date 4/9/2013	Completion MESAVERDE, Original Hole	Top Depth (ft, KB) 10,616.0	Bottom Depth (ft, KB) 10,619.0		
Perforation Company Lone Wolf ELU	Conveyance Method Wireline	Gun Size (in) 2.752	Carrier Make Baker Atlas		
Shot Density (shots/ft) 3.0	Charge Type	Phasing (°) 120			
Orientation		Orientation Method			
Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB)	FL MD After (ft, KB)	P Surf Init (psi)	P Final Surf (psi)
Reference Log Cement Bond, 0.0-11,124.0ft, KB					
Calculated Shot Total 10					
Perforation Statuses					
Date	Status	Com			
4/9/2013	Open - Flowing				
Date 4/9/2013	Completion MESAVERDE, Original Hole	Top Depth (ft, KB) 10,630.0	Bottom Depth (ft, KB) 10,632.0		
Perforation Company Lone Wolf ELU	Conveyance Method Wireline	Gun Size (in) 2.752	Carrier Make Baker Atlas		
Shot Density (shots/ft) 3.0	Charge Type	Phasing (°) 120			
Orientation		Orientation Method			
Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB)	FL MD After (ft, KB)	P Surf Init (psi)	P Final Surf (psi)
Reference Log Cement Bond, 0.0-11,124.0ft, KB					
Calculated Shot Total 7					



# Perforations

Well Name: RW 23A-28B

API 43-047-51722	Surface Legal Location S28-T7S-R23E	Field Name RED WASH	County UINTAH	State UTAH	Well Configuration Type Vertical
Unique Well ID UT101262	Gr Elev (ft) 5,536.3	Current Elevation 5,553.30, SST 54 - KB 17	KB to CF (ft) 17.00	Spud Date 2/8/2013 06:00	Dry Hole TD Date 3/24/2013 06:00
Total Depth (All) (ft, KB) Original Hole - 11,172.0					

Vertical - Original Hole, 12/16/2014 12:43:20 PM		Perforation Statuses			
Vertical schematic (actual)		Date	Status	Com	
		4/9/2013	Open - Flowing		
		Date 4/9/2013	Completion MESAVERDE, Original Hole	Top Depth (ft, KB) 10,687.0	Bottom Depth (ft, KB) 10,688.0
		Perforation Company Lone Wolf ELU	Conveyance Method Wireline	Gun Size (in) 2.752	Carrier Make Baker Atlas
		Shot Density (shots/ft) 3.0	Charge Type	Phasing (*) 120	
		Orientation		Orientation Method	
		Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB)	FL MD After (ft, KB)
		Reference Log Cement Bond, 0.0-11,124.0ft, KB		P Surf Init (psi)	P Final Surf (psi)
		Calculated Shot Total		4	
		Perforation Statuses			
		Date	Status	Com	
		4/9/2013	Open - Flowing		
		Date 4/9/2013	Completion MESAVERDE, Original Hole	Top Depth (ft, KB) 10,705.0	Bottom Depth (ft, KB) 10,706.0
		Perforation Company Lone Wolf ELU	Conveyance Method Wireline	Gun Size (in) 2.752	Carrier Make Baker Atlas
		Shot Density (shots/ft) 3.0	Charge Type	Phasing (*) 120	
		Orientation		Orientation Method	
		Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB)	FL MD After (ft, KB)
		Reference Log Cement Bond, 0.0-11,124.0ft, KB		P Surf Init (psi)	P Final Surf (psi)
		Calculated Shot Total		4	
		Perforation Statuses			
		Date	Status	Com	
		4/9/2013	Open - Flowing		
		Date 4/9/2013	Completion MESAVERDE, Original Hole	Top Depth (ft, KB) 10,722.0	Bottom Depth (ft, KB) 10,724.0
		Perforation Company Lone Wolf ELU	Conveyance Method Wireline	Gun Size (in) 2.752	Carrier Make Baker Atlas
		Shot Density (shots/ft) 3.0	Charge Type	Phasing (*) 120	
		Orientation		Orientation Method	
		Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB)	FL MD After (ft, KB)
		Reference Log Cement Bond, 0.0-11,124.0ft, KB		P Surf Init (psi)	P Final Surf (psi)
		Calculated Shot Total		7	
		Perforation Statuses			
		Date	Status	Com	
		4/9/2013	Open - Flowing		
		Date 4/9/2013	Completion MESAVERDE, Original Hole	Top Depth (ft, KB) 10,766.0	Bottom Depth (ft, KB) 10,768.0
		Perforation Company Lone Wolf ELU	Conveyance Method Wireline	Gun Size (in) 2.752	Carrier Make Baker Atlas
		Shot Density (shots/ft) 3.0	Charge Type	Phasing (*) 120	
		Orientation		Orientation Method	
		Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB)	FL MD After (ft, KB)
		Reference Log Cement Bond, 0.0-11,124.0ft, KB		P Surf Init (psi)	P Final Surf (psi)
		Calculated Shot Total		7	

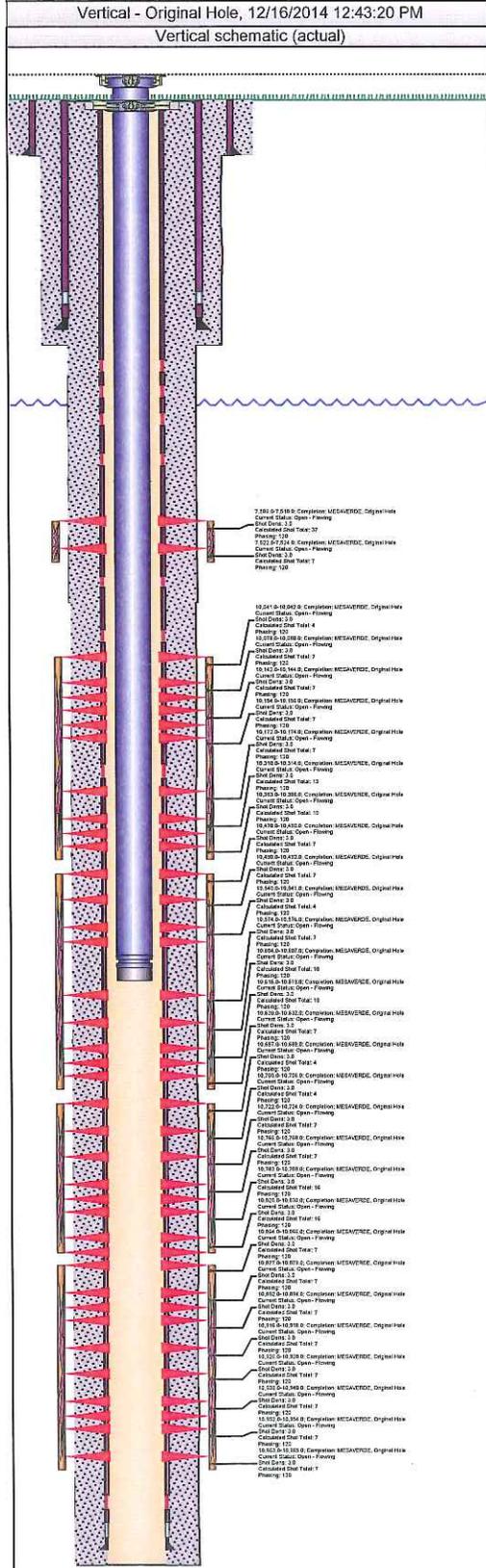


QEP Energy Company

# Perforations

Well Name: RW 23A-28B

API 43-047-51722	Surface Legal Location S28-T7S-R23E	Field Name RED WASH	County UINTAH	State UTAH	Well Configuration Type Vertical
Unique Well ID UT101262	Gr Elev (ft) 5,536.3	Current Elevation 5,553.30, SST 54 - KB 17	KB to CF (ft) 17.00	Spud Date 2/8/2013 06:00	Dry Hole TD Date 3/24/2013 06:00
Vertical - Original Hole, 12/16/2014 12:43:20 PM			Total Depth (All) (ft, KB) Original Hole - 11,172.0		



Perforation Statuses					
Date	Status	Com			
4/9/2013	Open - Flowing				
Date	Completion	Top Depth (ft, KB)	Bottom Depth (ft, KB)		
4/9/2013	MESAVERDE, Original Hole	10,783.0	10,788.0		
Perforation Company	Conveyance Method	Gun Size (in)	Carrier Make		
Lone Wolf ELU	Wireline	2.752	Baker Atlas		
Shot Density (shots/ft)	Charge Type	Phasing (°)			
	3.0			120	
Orientation		Orientation Method			
Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB)	FL MD After (ft, KB)	P Surf Init (psi)	P Final Surf (psi)
Reference Log Cement Bond, 0.0-11,124.0ft, KB					
Calculated Shot Total					
16					

Perforation Statuses					
Date	Status	Com			
4/9/2013	Open - Flowing				
Date	Completion	Top Depth (ft, KB)	Bottom Depth (ft, KB)		
4/9/2013	MESAVERDE, Original Hole	10,825.0	10,830.0		
Perforation Company	Conveyance Method	Gun Size (in)	Carrier Make		
Lone Wolf ELU	Wireline	2.752	Baker Atlas		
Shot Density (shots/ft)	Charge Type	Phasing (°)			
	3.0			120	
Orientation		Orientation Method			
Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB)	FL MD After (ft, KB)	P Surf Init (psi)	P Final Surf (psi)
Reference Log Cement Bond, 0.0-11,124.0ft, KB					
Calculated Shot Total					
16					

Perforation Statuses					
Date	Status	Com			
4/9/2013	Open - Flowing				
Date	Completion	Top Depth (ft, KB)	Bottom Depth (ft, KB)		
4/5/2013	MESAVERDE, Original Hole	10,864.0	10,866.0		
Perforation Company	Conveyance Method	Gun Size (in)	Carrier Make		
Lone Wolf ELU	Wireline	2.752	Baker Atlas		
Shot Density (shots/ft)	Charge Type	Phasing (°)			
	3.0			120	
Orientation		Orientation Method			
Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB)	FL MD After (ft, KB)	P Surf Init (psi)	P Final Surf (psi)
Reference Log Cement Bond, 0.0-11,124.0ft, KB					
Calculated Shot Total					
7					

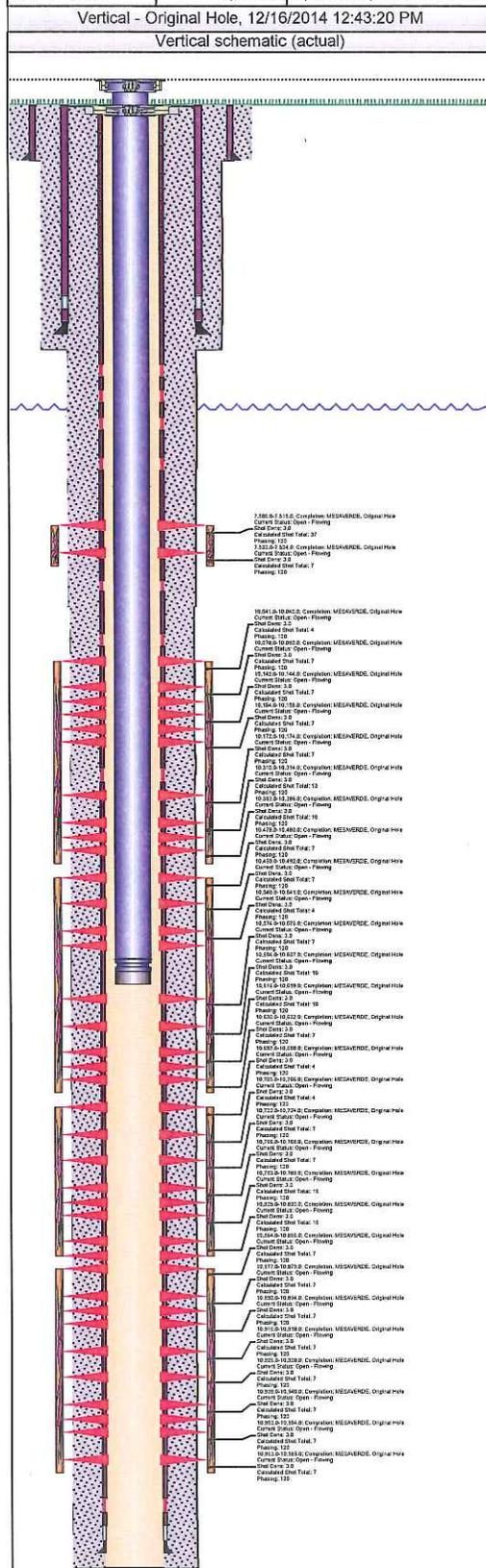
Perforation Statuses					
Date	Status	Com			
4/5/2013	Open - Flowing				
Date	Completion	Top Depth (ft, KB)	Bottom Depth (ft, KB)		
4/5/2013	MESAVERDE, Original Hole	10,877.0	10,879.0		
Perforation Company	Conveyance Method	Gun Size (in)	Carrier Make		
Lone Wolf ELU	Wireline	2.752	Baker Atlas		
Shot Density (shots/ft)	Charge Type	Phasing (°)			
	3.0			120	
Orientation		Orientation Method			
Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB)	FL MD After (ft, KB)	P Surf Init (psi)	P Final Surf (psi)
Reference Log Cement Bond, 0.0-11,124.0ft, KB					
Calculated Shot Total					
7					



# Perforations

Well Name: RW 23A-28B

API 43-047-51722	Surface Legal Location S28-T7S-R23E	Field Name RED WASH	County UINTAH	State UTAH	Well Configuration Type Vertical
Unique Well ID UT101262	Gr Elev (ft) 5,536.3	Current Elevation 5,553.30, SST 54 - KB 17	KB to CF (ft) 17.00	Spud Date 2/8/2013 06:00	Dry Hole TD Date 3/24/2013 06:00
Vertical - Original Hole, 12/16/2014 12:43:20 PM			Total Depth (All) (ft, KB) Original Hole - 11,172.0		



Perforation Statuses					
Date	Status	Com			
4/5/2013	Open - Flowing				
Date	Completion	Top Depth (ft, KB)	Bottom Depth (ft, KB)		
4/5/2013	MESAVERDE, Original Hole	10,892.0	10,894.0		
Perforation Company	Conveyance Method	Gun Size (in)	Carrier Make		
Lone Wolf ELU	Wireline	2.752	Baker Atlas		
Shot Density (shots/ft)	Charge Type	Phasing (°)		120	
3.0					
Orientation		Orientation Method			
Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB)	FL MD After (ft, KB)	P Surf Init (psi)	P Final Surf (psi)
Reference Log Cement Bond, 0.0-11,124.0ft, KB					
Calculated Shot Total 7					
Perforation Statuses					
Date	Status	Com			
4/5/2013	Open - Flowing				
Date	Completion	Top Depth (ft, KB)	Bottom Depth (ft, KB)		
4/5/2013	MESAVERDE, Original Hole	10,916.0	10,918.0		
Perforation Company	Conveyance Method	Gun Size (in)	Carrier Make		
Lone Wolf ELU	Wireline	2.752	Baker Atlas		
Shot Density (shots/ft)	Charge Type	Phasing (°)		120	
3.0					
Orientation		Orientation Method			
Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB)	FL MD After (ft, KB)	P Surf Init (psi)	P Final Surf (psi)
Reference Log Cement Bond, 0.0-11,124.0ft, KB					
Calculated Shot Total 7					
Perforation Statuses					
Date	Status	Com			
4/5/2013	Open - Flowing				
Date	Completion	Top Depth (ft, KB)	Bottom Depth (ft, KB)		
4/5/2013	MESAVERDE, Original Hole	10,926.0	10,928.0		
Perforation Company	Conveyance Method	Gun Size (in)	Carrier Make		
Lone Wolf ELU	Wireline	2.752	Baker Atlas		
Shot Density (shots/ft)	Charge Type	Phasing (°)		120	
3.0					
Orientation		Orientation Method			
Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB)	FL MD After (ft, KB)	P Surf Init (psi)	P Final Surf (psi)
Reference Log Cement Bond, 0.0-11,124.0ft, KB					
Calculated Shot Total 7					
Perforation Statuses					
Date	Status	Com			
4/5/2013	Open - Flowing				
Date	Completion	Top Depth (ft, KB)	Bottom Depth (ft, KB)		
4/5/2013	MESAVERDE, Original Hole	10,938.0	10,940.0		
Perforation Company	Conveyance Method	Gun Size (in)	Carrier Make		
Lone Wolf ELU	Wireline	2.752	Baker Atlas		
Shot Density (shots/ft)	Charge Type	Phasing (°)		120	
3.0					
Orientation		Orientation Method			
Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB)	FL MD After (ft, KB)	P Surf Init (psi)	P Final Surf (psi)
Reference Log Cement Bond, 0.0-11,124.0ft, KB					
Calculated Shot Total 7					





QEP Energy Company

## QEP Energy Casing

Production

## Well Name: RW 23A-28B

API 43-047-51722	Surface Legal Location S28-T7S-R23E	Field Name RED WASH	County UINTAH	State UTAH	Well Configuration Type Vertical	
Unique Well ID UT101262	Ground Elevation (ft) 5,536.3	Casing Flange Elevation (ft) 5,536.30	Current KB to GL (ft) 17.00	KB to CF (ft) 17.00	Spud Date 2/8/2013 06:00	Dry Hole TD Date 3/24/2013 06:00

## Wellbore

Wellbore Name Original Hole			Sidetrack Start Depth (ft, KB)		
Section Des	Size (in)	Act Top (ft, KB)	Act Btm (ft, KB)	Start Date	End Date
Conductor	14	17.0	107.0	2/8/2013	2/9/2013
Surface	12 1/4	107.0	3,815.0	3/7/2013	3/10/2013
Production	8 3/4	3,815.0	8,310.0	3/12/2013	3/15/2013
Production	8 1/2	8,310.0	11,172.0	3/15/2013	3/19/2013

## Casing Strings

Casing Description Production	Depth Cut Pull (ft, KB) 17.0	Set Depth (ft, KB) 11,163.4	Run Date 3/22/2013
Centralizers	Scratchers	Set Tension (kips)	Comment

## Casing Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Top Thread	Jts	Len (ft)	Top (ft, KB)	Btm (ft, KB)	Mk-up Tq (ft-lb)	Class	Max OD (in)	ID (in)
Casing Joints	4 1/2	11.60	P119	LT&C	1	40.99	-6.0	35.0				4.000
Casing Joints	4 1/2	11.60	P118	LT&C	1	41.63	35.0	76.6				4.000
Casing Joints	4 1/2	11.60	P117	LT&C	1	40.80	76.6	117.4				4.000
Casing Joints	4 1/2	11.60	P116	LT&C	1	40.37	117.4	157.8				4.000
Casing Joints	4 1/2	11.60	P115	LT&C	1	40.75	157.8	198.5				4.000
Casing Joints	4 1/2	11.60	P114	LT&C	1	41.64	198.5	240.2				4.000
Casing Joints	4 1/2	11.60	P113	LT&C	1	41.56	240.2	281.7				4.000
Casing Joints	4 1/2	11.60	P112	LT&C	1	41.49	281.7	323.2				4.000
Casing Joints	4 1/2	11.60	P111	LT&C	1	41.54	323.2	364.8				4.000
Casing Joints	4 1/2	11.60	P110	LT&C	91	3,747.15	364.8	4,111.9				4.000
Marker Joint	4 1/2	11.60	P110	LT&C	1	2.05	4,111.9	4,114.0				4.000
Casing Joints	4 1/2	11.60	P110	LT&C	25	1,036.01	4,114.0	5,150.0				4.000
Marker Joint	4 1/2	11.60	P110	LT&C	1	2.05	5,150.0	5,152.0				4.000
Casing Joints	4 1/2	11.60	P110	LT&C	24	989.31	5,152.0	6,141.3				4.000
Marker Joint	4 1/2	11.60	P110	LT&C	1	2.05	6,141.3	6,143.4				4.000
Casing Joints	4 1/2	11.60	P110	LT&C	24	989.87	6,143.4	7,133.3				4.000
Marker Joint	4 1/2	11.60	P110	LT&C	1	2.05	7,133.3	7,135.3				4.000
Casing Joints	4 1/2	11.60	P110	LT&C	25	1,031.47	7,135.3	8,166.8				4.000
Marker Joint	4 1/2	11.60	P110	LT&C	1	2.05	8,166.8	8,168.8				4.000
Casing Joints	4 1/2	11.60	P110	LT&C	24	992.36	8,168.8	9,161.2				4.000
Marker Joint	4 1/2	11.60	P110	LT&C	1	2.05	9,161.2	9,163.2				4.000
Casing Joints	4 1/2	11.60	P110	LT&C	24	993.83	9,163.2	10,157.1				4.000
Marker Joint	4 1/2	11.60	P110	LT&C	1	2.05	10,157.1	10,159.1				4.000
Casing Joints	4 1/2	11.60	P110	LT&C	23	948.62	10,159.1	11,107.7				4.000
Pup Joint	4 1/2	11.60	P110	LT&C	1	10.33	11,107.7	11,118.1				4.000
Casing Joints	4 1/2	11.60	P110	LT&C	1	41.54	11,118.1	11,159.6				4.000
Float Collar	4 1/2	11.60	P110	LT&C	1	1.70	11,159.6	11,161.3				4.000
Float Shoe	4 1/2	11.60	P110	LT&C	1	2.10	11,161.3	11,163.4				4.000



QEP Energy Company

QEP Energy Casing

Surface

Well Name: RW 23A-28B

API 43-047-51722	Surface Legal Location S28-T7S-R23E	Field Name RED WASH	County UINTAH	State UTAH	Well Configuration Type Vertical	
Unique Well ID UT101262	Ground Elevation (ft) 5,536.3	Casing Flange Elevation (ft) 5,536.30	Current KB to GL (ft) 17.00	KB to CF (ft) 17.00	Spud Date 2/8/2013 06:00	Dry Hole TD Date 3/24/2013 06:00

Wellbore

Wellbore Name Original Hole	Sidetrack Start Depth (ft, KB)
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Section Des	Size (in)	Act Top (ft, KB)	Act Btm (ft, KB)	Start Date	End Date
Conductor	14	17.0	107.0	2/8/2013	2/9/2013
Surface	12 1/4	107.0	3,815.0	3/7/2013	3/10/2013

Casing

Casing Description Surface	Top Depth (ft, KB) 17.0	Set Depth (ft, KB) 3,804.0	Run Date 3/10/2013
Centralizers	Scratchers	Set Tension (kips)	Comment SET 3806' OF 9 5/8" 40# LY&C CASING AND CEMENTED WITH 100% RETURNS

Casing Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Top Thread	Jts	Len (ft)	Top (ft, KB)	Btm (ft, KB)	Mk-Up Tq (ft-lb)	Class	Max OD (in)	ID (in)
Casing Joints	9 5/8	40.00	N-80	LT&C	88	3,739.65	17.0	3,756.6				8.835
Float Collar	9 5/8	40.00	N-80	LT&C	1	1.75	3,756.6	3,758.4				8.835
Casing Joints	9 5/8	40.00	N-80	LT&C	1	44.12	3,758.4	3,802.5				8.835
Float Shoe	9 5/8	40.00	N-80	LT&C	1	1.50	3,802.5	3,804.0				8.835



QEP Energy Company

## QEP Energy Cement

## Production Casing Cement

Well Name: RW 23A-28B

API 43-047-51722	Surface Legal Location S28-T7S-R23E	Field Name RED WASH	County UINTAH	State UTAH	Well Configuration Type Vertical	
Unique Well ID UT101262	Ground Elevation (ft) 5,536.3	Casing Flange Elevation (ft) 5,536.30	Current KB to GL (ft) 17.00	KB to CF (ft) 17.00	Spud Date 2/8/2013 06:00	Dry Hole TD Date 3/24/2013 06:00

**Production Casing Cement, Casing, 3/23/2013 12:30**

Type Casing	Cementing Start Date 3/23/2013	Cementing End Date 3/23/2013	Wellbore Original Hole	String Production, 11,163.4ft, KB	OD (in) 4 1/2
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Cementing Company Halliburton Energy Services	Evaluation Method Returns to Surface	Cement Evaluation Results
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Comment

**1, 17.0-11,172.0ft, KB**

Top Depth (ft, KB) 17.0	Bottom Depth (ft, KB) 11,172.0	Full Return? No	Top Plug? Yes	Bottom Plug? No
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Initial Pump Rate (bbl/min) 3	Final Pump Rate (bbl/min) 7	Avg Pump Rate (bbl/min) 5	Final Pump Pressure (psi) 2,567.0	Plug Bump Pressure (psi) 3,616.0
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Pipe Reciprocated? No	Reciprocation Stroke Length (ft)	Reciprocation Rate (spm)	Pipe Rotated? No	Pipe RPM (rpm)
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Tagged Depth (ft, KB)	Tag Method	Depth Plug Drilled Out To (ft, KB)	Drill Out Diameter (in)	Drill Out Date
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Cement Volume Return (bbl) 70.0	Volume Lost (bbl) 0.0	Volume Squeezed in to Formation (bbl)
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**Lead**

Fluid Type Lead	Fluid Description	Amount (sacks) 1,080	Class	Objective Cement Production
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Estimated Top (ft, KB) 17.0	Estimated Bottom Depth (ft, KB) 7,900.0	Percent Excess Pumped (%) 15.0	Yield (ft <sup>3</sup> /sack) 2.45	Mix H2O Ratio (gal/sack) 13.74
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Free Water (%)	Density (lb/gal) 11.50	Volume Pumped (bbl) 472.0	Thickening Time (hr)	1st Compressive Strength (psi)
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**Cement Fluid Additives**

Add	Type	Conc	Conc Unit	Amount Units

**Tail**

Fluid Type Tail	Fluid Description	Amount (sacks) 720	Class	Objective Cement Production
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Estimated Top (ft, KB) 7,900.0	Estimated Bottom Depth (ft, KB) 11,172.0	Percent Excess Pumped (%) 15.0	Yield (ft <sup>3</sup> /sack) 1.50	Mix H2O Ratio (gal/sack) 7.04
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Free Water (%)	Density (lb/gal) 13.50	Volume Pumped (bbl) 192.0	Thickening Time (hr)	1st Compressive Strength (psi)
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**Cement Fluid Additives**

Add	Type	Conc	Conc Unit	Amount Units

**Leak Off and Formation Integrity Tests****Mud Data**

Date	Type	Density (lb/gal)	Vis (s/qt)	PV Override (cP)	YP OR (lb/100ft <sup>2</sup> )	Gel (10s) (lb/100...)	Gel (10m) (lb/100...)
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QEP Energy Company

**QEP Energy Cement**

**Surface Casing Cement**

**Well Name: RW 23A-28B**

API 43-047-51722	Surface Legal Location S28-T7S-R23E	Field Name RED WASH	County UINTAH	State UTAH	Well Configuration Type Vertical	
Unique Well ID UT101262	Ground Elevation (ft) 5,536.3	Casing Flange Elevation (ft) 5,536.30	Current KB to GL (ft) 17.00	KB to CF (ft) 17.00	Spud Date 2/8/2013 06:00	Dry Hole TD Date 3/24/2013 06:00

**Surface Casing Cement, Casing, 3/10/2013 19:30**

Type Casing	Cementing Start Date 3/10/2013	Cementing End Date 3/11/2013	Wellbore Original Hole	String Surface, 3,804.0ft, KB	OD (in) 9 5/8
Cementing Company Halliburton Energy Services	Evaluation Method Returns to Surface	Cement Evaluation Results			

Comment

**1, 17.0-3,804.1ft, KB**

Top Depth (ft, KB) 17.0	Bottom Depth (ft, KB) 3,804.1	Full Return? Yes	Top Plug? No	Bottom Plug? Yes
Initial Pump Rate (bbl/min) 5	Final Pump Rate (bbl/min) 2	Avg Pump Rate (bbl/min) 5	Final Pump Pressure (psi) 760.0	Plug Bump Pressure (psi) 1,430.0
Pipe Reciprocated? No	Reciprocation Stroke Length (ft) 0.00	Reciprocation Rate (spm) 0	Pipe Rotated? No	Pipe RPM (rpm) 0
Tagged Depth (ft, KB)	Tag Method	Depth Plug Drilled Out To (ft, KB)	Drill Out Diameter (in)	Drill Out Date
Cement Volume Return (bbl) 150.0	Volume Lost (bbl)	Volume Squeezed in to Formation (bbl)		

**Lead**

Fluid Type Lead	Fluid Description ECONOCEM V4	Amount (sacks) 615	Class 50/50 POZ	Objective Cement Surface
Estimated Top (ft, KB) 17.0	Estimated Bottom Depth (ft, KB) 3,000.0	Percent Excess Pumped (%) 75.0	Yield (ft <sup>3</sup> /sack) 2.95	Mix H2O Ratio (gal/sack) 17.48
Free Water (%)	Density (lb/gal) 11.00	Volume Pumped (bbl) 323.0	Thickening Time (hr)	1st Compressive Strength (psi)

**Cement Fluid Additives**

Add	Type	Conc	Conc Unit	Amount Units

**Tail**

Fluid Type Tail	Fluid Description EXPANDACEM VE	Amount (sacks) 195	Class 50/50 POZ	Objective Cement Surface
Estimated Top (ft, KB) 3,000.0	Estimated Bottom Depth (ft, KB) 3,806.0	Percent Excess Pumped (%) 75.0	Yield (ft <sup>3</sup> /sack) 1.43	Mix H2O Ratio (gal/sack) 6.54
Free Water (%)	Density (lb/gal) 13.50	Volume Pumped (bbl) 50.0	Thickening Time (hr)	1st Compressive Strength (psi)

**Cement Fluid Additives**

Add	Type	Conc	Conc Unit	Amount Units

**Leak Off and Formation Integrity Tests**

**Mud Data**

Date	Type	Density (lb/gal)	Vis (s/qt)	PV Override (cP)	YP OR (lb/100ft <sup>2</sup> )	Gel (10s) (lb/100...)	Gel (10m) (lb/100...)
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