

**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> WR 11G-5-10-17				
<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> EIGHT MILE FLAT				
<b>4. TYPE OF WELL</b> Oil Well Coalbed Methane Well: NO						<b>5. UNIT or COMMUNITIZATION AGREEMENT NAME</b> SCYLLA (GR)				
<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@qepres.com				
<b>10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)</b> UTU75081			<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 type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input checked="" 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		1500 FSL 2350 FWL		NESW	5	10.0 S	17.0 E	S		
Top of Uppermost Producing Zone		1500 FSL 2350 FWL		NESW	5	10.0 S	17.0 E	S		
At Total Depth		1500 FSL 2350 FWL		NESW	5	10.0 S	17.0 E	S		
<b>21. COUNTY</b> DUCHESNE			<b>22. DISTANCE TO NEAREST LEASE LINE (Feet)</b> 1500			<b>23. NUMBER OF ACRES IN DRILLING UNIT</b> 40				
<b>25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)</b> 2625			<b>26. PROPOSED DEPTH</b> MD: 11488 TVD: 5181			<b>29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE</b> 49-251/49-2153				
<b>27. ELEVATION - GROUND LEVEL</b> 5797			<b>28. BOND NUMBER</b> ESB000024							
<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>
Surf	12.25	9.625	0 - 450	36.0	J-55 ST&C	0.0	Rockies Lite	170	1.81	13.5
Prod	8.75	7	0 - 4860	26.0	N-80 LT&C	9.0	50/50 Poz	825	1.24	14.35
<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> Jan Nelson				<b>TITLE</b> Permit Agent			<b>PHONE</b> 435 781-4331			
<b>SIGNATURE</b>				<b>DATE</b> 12/12/2012			<b>EMAIL</b> jan.nelson@qepres.com			
<b>API NUMBER ASSIGNED</b> 43013519130000				<b>APPROVAL</b>  Permit Manager						

LOCATION OF LATERAL NUMBER 1	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
Location At Kickoff Point Depth: 4960	1500 FSL 2350 FWL	NESW	5	10.0 S	17.0 E	S
Top of Uppermost Producing Zone	1500 FSL 2350 FWL	NESW	5	10.0 S	17.0 E	S
At Total Depth	1500 FSL 2350 FWL	NESW	5	10.0 S	17.0 E	S
COUNTY DUCHESNE	DISTANCE TO NEAREST LEASE LINE (Feet) 1500					
DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 2625	PROPOSED DEPTH MD: 11488 TVD: 5181					

Hole, Casing, and Cement Information

String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
I1	6.125	4.5	0 - 11458	11.6	N-80 LT&C	10.0	No Used	0	0.0	0.0

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## QEP ENERGY COMPANY

WR 11G-5-10-17

API: 43-013-

### Summarized New Drill A-Sand Horizontal Procedure

1. MIRU drilling rig.
2. Drill 12-3/4" hole to 450'.
3. RIH with 9-5/8" 36# J-55 casing to bottom.
4. Cement casing.
5. NU rig's 3,000 WP rated BOP.
6. Drill vertically to 4,860'.
7. RIH with 7" 26# N-80.
8. Cement casing.
9. Drill out cement and drill to KOP of 4,960'.
10. Build curve per directional plan to land in the Uteland Butte "C" Lime.
11. Drill ~5,756' of lateral in the Uteland Butte "C" Lime at ~194.67° azimuth, following formation dip.
  - a. Mud system to be water based. Weights are expected to be in the 8.8 – 9.8 ppg range.
12. PU 4 1/2" slotted liner and blank pipe and run to TD.
  - a. Land liner top at 4,800', 60' above the window.
  - b. Bottom of liner will be 30' of bottom.
13. Set RBP at 2,000'
14. ND BOP's.
15. RDMOL.

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ONSHORE OIL & GAS ORDER NO. 1  
 QEP ENERGY COMPANY  
 WR 11G-5-10-17

## 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:

\*This is a horizontal well:

<u>Formation</u>	<u>Depth, TVD</u>	<u>Depth, MD</u>
Green River	1,000'	1,000'
Kick Off Point	4,960'	4,960'
Uteland Butte C Lime	5,269'	5,296'
TD	5,181'	11,488'

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

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

<u>Substance</u>	<u>Formation</u>	<u>Depth, TVD</u>	<u>Depth, MD</u>
Oil/Gas	Uteland Butte A Sand	5,436 – 5,181'	5,436' – 11,488'

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 49-251 (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.

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

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

**4. Casing Program**

Hole Size	Casing Size	Top, MD	Bottom, MD	Weight, lb/ft	Grade	Thread	Condition	MW
17 1/2"	14"	sfc	80'	Steel	Cond.	None	Used	Air
12 1/4"	9 5/8"	sfc	450'	36.0	J-55	STC	New	Air
8 3/4"	7"	sfc	4,860'	26.0	N-80	LTC	New	8-9 ppg

Casing Strengths:				Collapse	Burst	Tensile (minimum)
9 5/8"	36.0 lb.	J-55	STC	2,020 psi	3,520 psi	394,000 lb.
7"	26.0 lb.	N-80	LTC	5,410 psi	7,240 psi	519,000 lb.

The lateral will be lined with slotted liner and casing landed 30' off bottom.

Lateral:

Hole Size	Casing Size	Top, MD	Bottom, MD	Weight	Grade	MW
6 1/8"	4 1/2"	4,800'	11,458'	11.6	N-80	8 - 10 ppg

Casing Strengths:				Collapse	Burst	Tensile (minimum)
4 1/2"	11.6 lb.	N-80	LTC	6,350 psi	7,780 psi	223,000 lb.

Please refer to the attached wellbore diagram for further details.

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5. **Cementing Program**

**20" Conductor:**

Cement to surface with construction cement.

**9-5/8" Surface Casing: sfc – 450' (MD)**

**Lead/Tail Slurry:** 0' – 450'. 170 sks (310 cu ft) Rockies LT cement + 0.25 lb/sk Kwik Seal + 0.125 lb/sk Poly-E-Flake. Slurry wt: 13.5 ppg, Slurry yield: 1.81 ft<sup>3</sup>/sk, Slurry volume: 12-1/4" hole + 100% excess.

**7" Intermediate Casing: sfc – 4,800' (MD)**

**Lead/Tail Slurry:** sfc – 4,860'. 825 sks (1,023 cu ft) 50/50 Poz Premium + 0.6% Halad (R)-322 fluid loss + 2.0% Microbond M expander + 5% salt + 0.125 lb/sk Poly-E-Flake. Slurry wt: 14.35 ppg, Slurry yield: 1.24 ft<sup>3</sup>/sk, Slurry volume: 8-3/4" hole + 40% excess.

**S Lateral: 4,860' – 11,488'**

No cement, liner hung in open hole.

6. **Auxilliary Equipment**

- a. Kelly Cock – Yes
- b. Float at the bit – No
- c. Monitoring equipment on the mud system – visually and/or PVT or Flow Show
- d. Fully opening safety valve on the rig floor – Yes
- e. Rotating Head – Yes

Drilling the 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 less than 500 feet and high pressures are not expected.

- f. **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.
- g. **Blooiie line discharge 100' from well bore and securely anchored.** The blooiie line discharge for this operation will be located 50 to 70 feet from the

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QEP ENERGY COMPANY  
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wellhead. This reduced length is necessary due to the smaller location size to minimize surface disturbance.

- h. **Automatic ignitor or continuous pilot light on the blooie line.** A diffuser will be used rather than an automatic pilot/ignitor. Water is injected into the compressed air and eliminates the need for the pilot light and the need for dust suppression equipment.
- i. **Compressors located in the opposite direction from the blooie line a minimum of 100 feet from the well bore.** Compressors located 50 feet on the opposite side of the well bore from the blooie line and is equipped with a 1) emergency kill switch on the driller's console, 2) pressure relief valve on the compressor, 3) spark arrestors on the motors.
- j. **Kill Fluid to control well** – In lieu of having mud products on location to kill the well for an unanticipated kick, Questar will kill the well with water contained in a 400 bbl tank on site. The 400 bbl water tank will also be storage for surface casing cement water.
- k. **Deflector on the end of the blooie line** – Questar will mount a deflector unit at the end of the blooie line for the purpose of changing the direction and velocity of the air and cuttings flow into the reserve pit. Changing the velocity and direction of the cuttings and air will preserve the pit liner. In the event the deflector washes out due to erosion caused by the sand blasting effect of the cuttings, there will be no problem because the deflector is mounted on the very end of the blooie. A washed out deflector will be easily replaced.
- l. **Flare Pit** – there will be no need of a flare pit during the surface hole air drilling operation because the blooie line is routed directly to the reserve pit. When the big rig arrives for the main drilling after setting surface casing, a flare box will be installed and all flare lines will be routed to the flare box.

All other operations and equipment for air/gas drilling shall meet specifications in Onshore Order #2, Section III Requirements, subsection E. Special Drilling Operations and Onshore Order #1.

Surface hole will be drilled with air, air/mist, foam, or mud depending on hole conditions. Production holes will be with water based drilling fluids consisting primarily of fresh water, bentonite, lignite, caustic, lime, soda ash and polymers. Maximum anticipated mud weight is 9.5 ppg.

Drilling of the laterals will be done with fresh water NaCl based mud systems consisting primarily of fresh water, bentonite, lignite, caustic, lime, soda ash, polymers, and NaCl. No chromates will be used. It is not intended to use oil in the mud, however, in the event it is used the concentration will be less than 4% by volume. Maximum anticipated mud weight is 10.0 ppg.

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

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

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

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

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

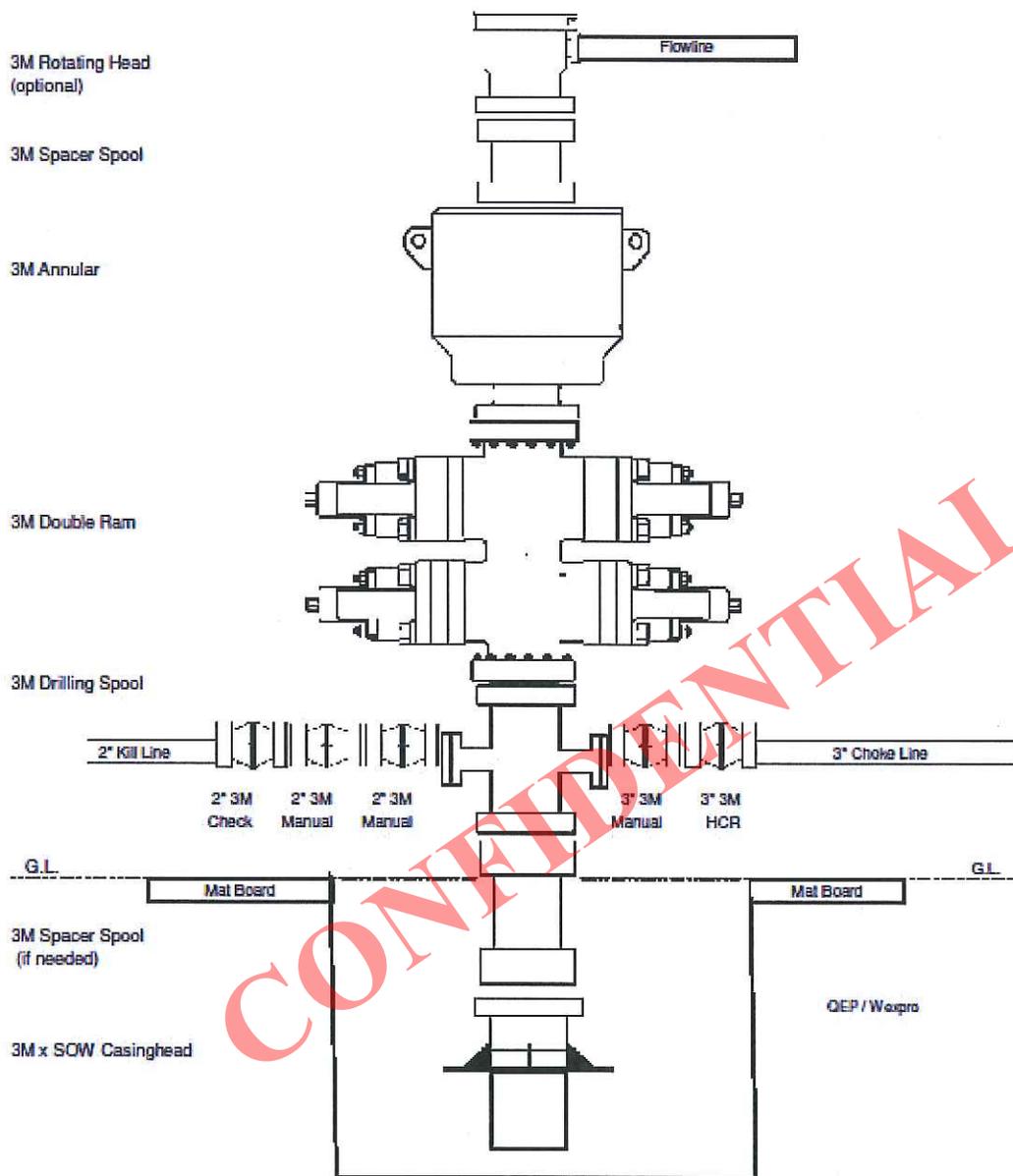
8. **Anticipated Abnormal Pressures and Temperatures, Other Potential Hazards**

No abnormal temperatures or pressures are anticipated. No H<sub>2</sub>S has been encountered or is known to exist from previous wells drilled to similar depths in the general area. Maximum anticipated bottom-hole pressure equals approximately 2,720 psi. Maximum anticipated bottom hole temperature is approximately 150°F.

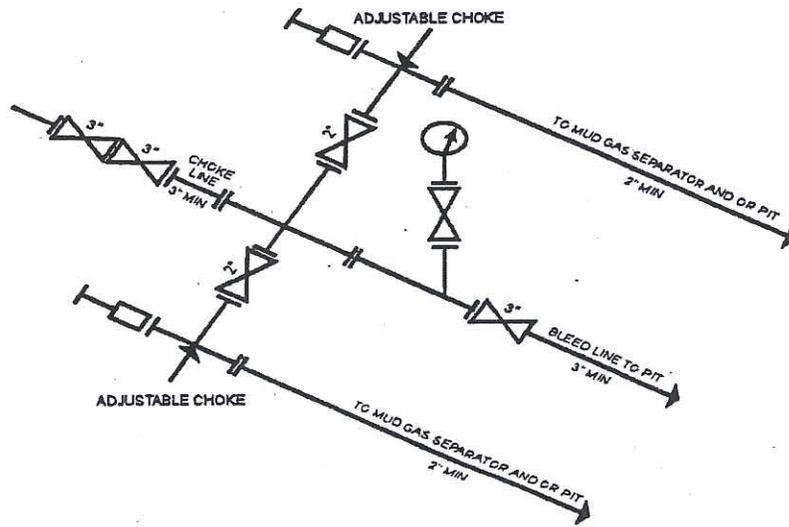
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**QUESTAR / WEXPRO**  
**3M BOP x 3M Annular**  
Minimum Requirements



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

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## **QEP ENERGY (UT)**

**Wilkin Ridge**

**WR 11G-5-10-17**

**WR 11G-5-10-17**

**Original Hole**

**Plan: Plan ver. 0**

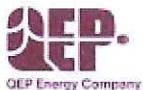
## **Standard Planning Report**

**26 November, 2012**

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QEP Resources, Inc.  
Planning Report



Database:	EDMDB_QEP	Local Co-ordinate Reference:	Well WR 11G-5-10-17
Company:	QEP ENERGY (UT)	TVD Reference:	RKB @ 5810.50usft (AZTEC 950)
Project:	Wilkin Ridge	MD Reference:	RKB @ 5810.50usft (AZTEC 950)
Site:	WR 11G-5-10-17	North Reference:	True
Well:	WR 11G-5-10-17	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan ver. 0		

Project	Wilkin Ridge, UT		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Utah Central Zone		Using geodetic scale factor

Site	WR 11G-5-10-17				
Site Position:		Northing:	7,161,106.664 usft	Latitude:	39.969811
From:	Lat/Long	Easting:	2,052,011.976 usft	Longitude:	-110.031308
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.94 °

Well	WR 11G-5-10-17					
Well Position	+N/-S	-0.01 usft	Northing:	7,161,106.651 usft	Latitude:	39.969811
	+E/-W	0.00 usft	Easting:	2,052,011.976 usft	Longitude:	-110.031308
Position Uncertainty		0.00 usft	Wellhead Elevation:	5,794.50 usft	Ground Level:	5,794.50 usft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	11/20/2012	11.11	65.70	52,090

Design	Plan ver. 0			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	194.67

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,960.33	0.00	0.00	4,960.33	0.00	0.00	0.00	0.00	0.00	0.00	
5,731.58	92.55	194.67	5,437.32	-482.45	-126.29	12.00	12.00	0.00	194.67	
11,488.22	92.55	194.67	5,181.20	-6,045.95	-1,582.60	0.00	0.00	0.00	0.00	WR11G-5-10-17 BHL

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,960.33	0.00	0.00	4,960.33	0.00	0.00	0.00	0.00	0.00	0.00
5,731.58	92.55	194.67	5,437.32	-482.45	-126.29	498.71	12.00	12.00	0.00
11,488.22	92.55	194.67	5,181.20	-6,045.95	-1,582.60	6,249.65	0.00	0.00	0.00



**QEP Resources, Inc.**  
Planning Report



<b>Database:</b>	EDMDB_QEP	<b>Local Co-ordinate Reference:</b>	Well WR 11G-5-10-17
<b>Company:</b>	QEP ENERGY (UT)	<b>TVD Reference:</b>	RKB @ 5810.50usft (AZTEC 950)
<b>Project:</b>	Wilkin Ridge	<b>MD Reference:</b>	RKB @ 5810.50usft (AZTEC 950)
<b>Site:</b>	WR 11G-5-10-17	<b>North Reference:</b>	True
<b>Well:</b>	WR 11G-5-10-17	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Hole		
<b>Design:</b>	Plan ver. 0		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
WR11G-5-10-17 BHL	0.00	0.94	5,181.20	-6,045.95	-1,582.60	7,155,036.127	2,050,529.009	39,953214	-110.036953
- plan hits target center									
- Point									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
450.00	450.00	9 5/8"	9-5/8	12-1/4	
4,860.00	4,860.00	7"	7	8-3/4	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,000.00	1,000.00	Green River fm		0.00		
3,070.00	3,070.00	Garden Gulch mbr		0.00		
5,295.92	5,268.96	Uteland Butte Member		2.55	374.77	
5,673.51	5,436.37	C Lime top		2.55	374.77	
5,693.36	5,437.49	C Lime top porosity		2.55	374.77	

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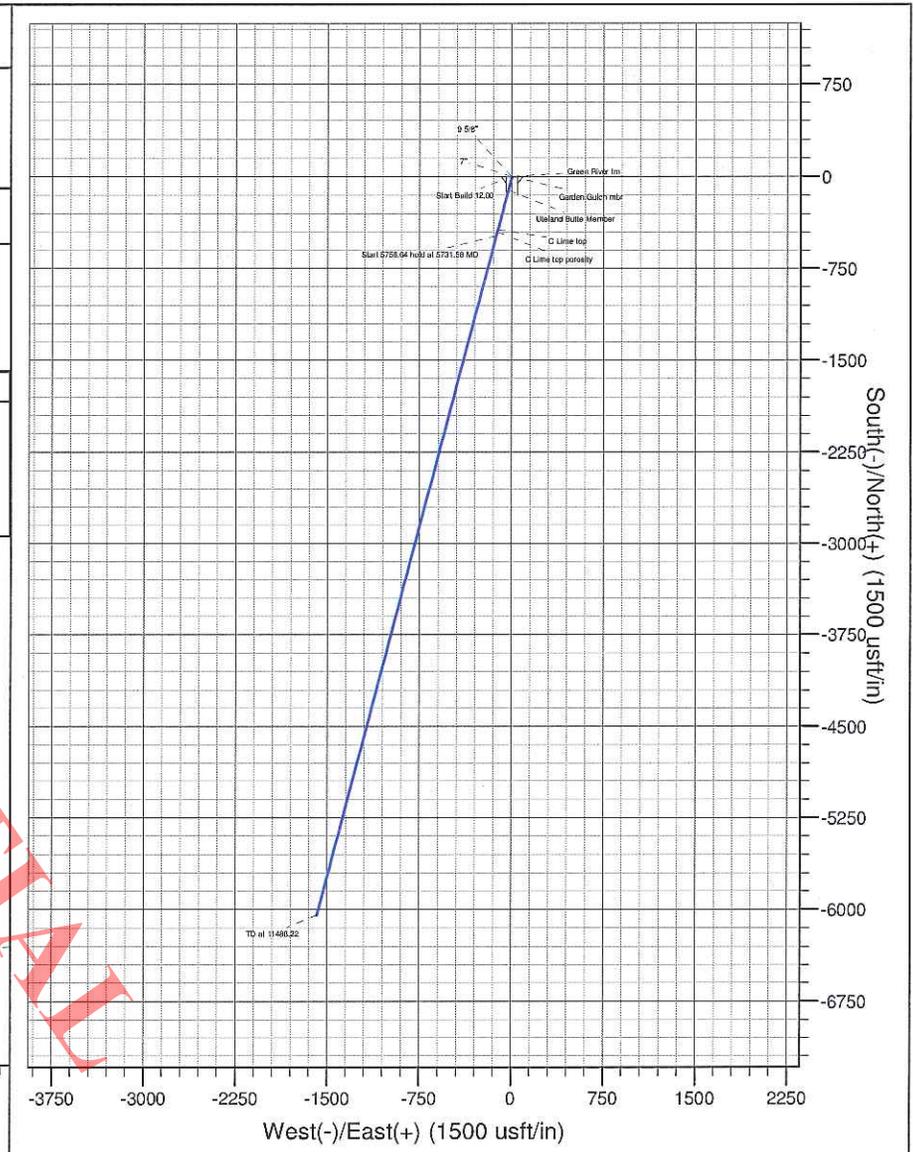
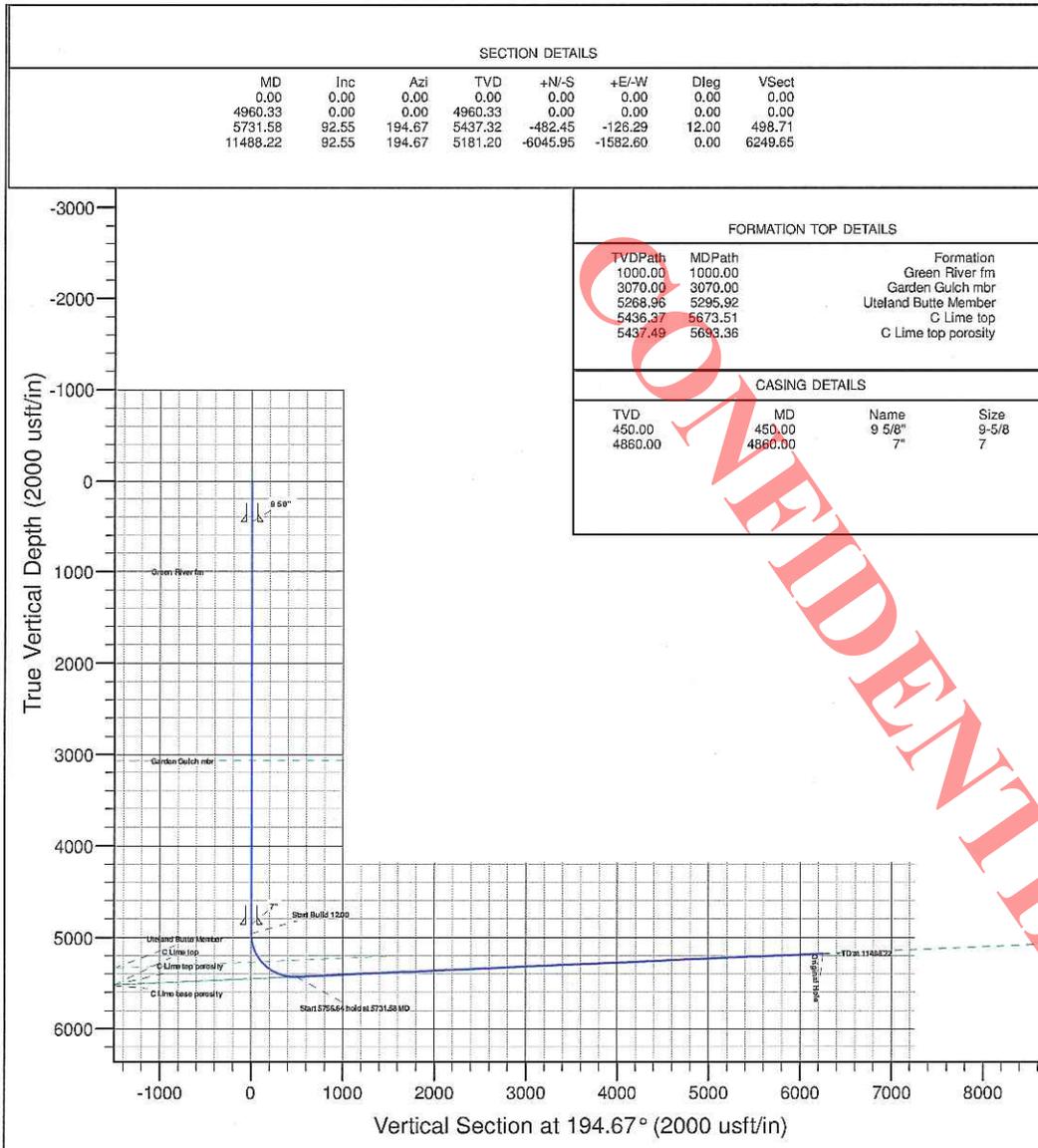
Company Name: QEP ENERGY (UT)



Azimuth to True North  
Magnetic North: 11.11°  
Magnetic Field  
Strength: 52090.0nT  
Dip Angle: 65.70°  
Date: 11/20/2012  
Model: IGRF-2010

Project: Wilkin Ridge  
Site: WR 11G-5-10-17  
Well: WR 11G-5-10-17  
Wellbore: Original Hole  
Design: Plan ver. 0

WELL DETAILS: WR 11G-5-10-17 Original Hole							REFERENCE INFORMATION		PROJECT DETAILS: Wilkin Ridge	
Ground Level: 5794.50							Co-ordinate (N/E) Reference: Well WR 11G-5-10-17, True North Vertical (TVD) Reference: RKB @ 5810.50usft (AZTEC 950) Section (VS) Reference: Slot - (0.00N, 0.00E) Measured Depth Reference: RKB @ 5810.50usft (AZTEC 950) Calculation Method: Minimum Curvature		Geodetic System: US State Plane 1983 Datum: North American Datum 1983 Ellipsoid: GRS 1980 Zone: Utah Central Zone System Datum: Mean Sea Level	
+N-S 0.00	+E-W 0.00	Northing 7161106.652	Easting 2052011.977	Latitude 39.969811	Longitude -110.031308	Slot				



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API Well Number : 43013519130000

WELL LOCATION PLAT  
T10S, R17E, S.L.B.&M.

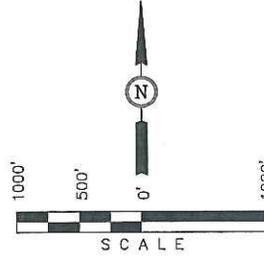
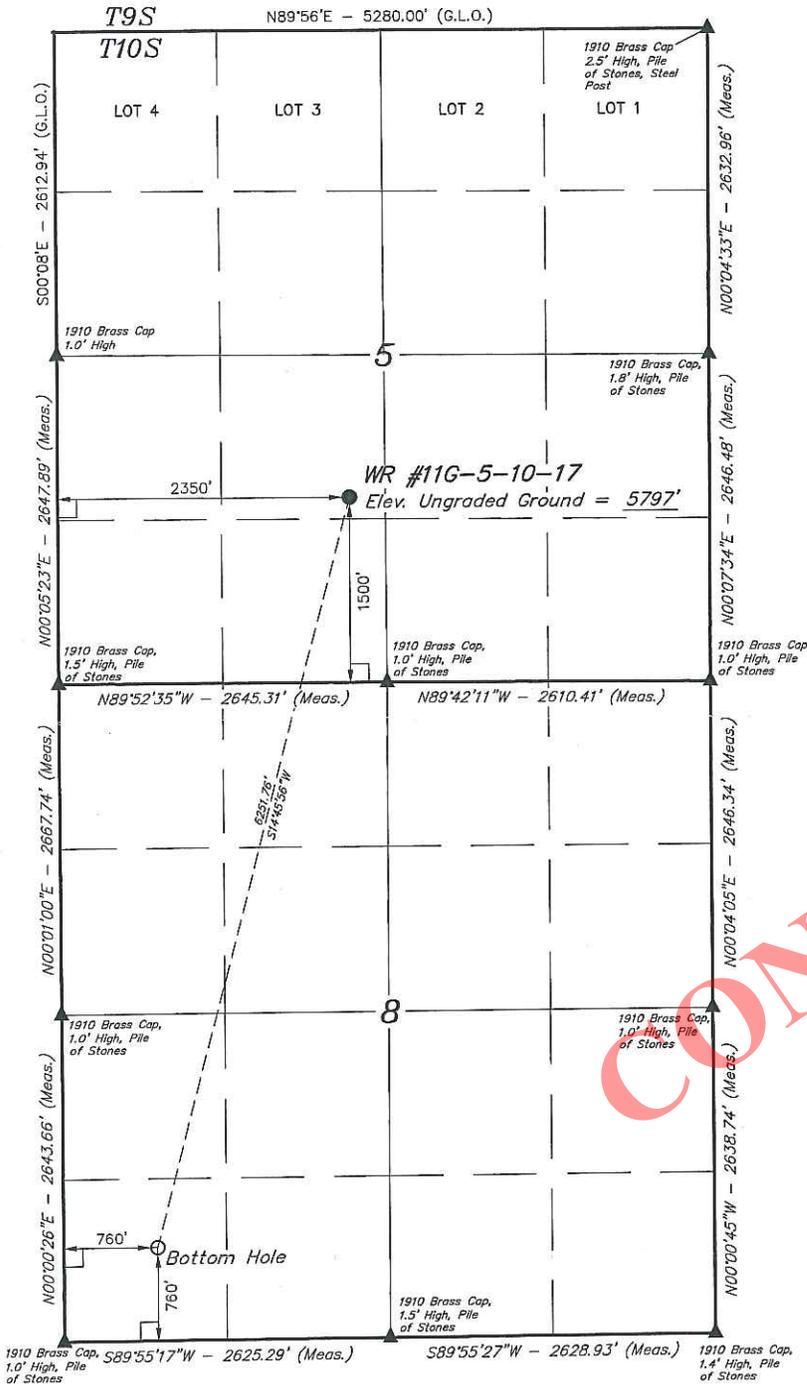
Well location, WR #11G-5-10-17, located as shown in the NE 1/4 SW 1/4 of Section 5, T10S, R17E, S.L.B.&M., Duchesne County, Utah.

BASIS OF ELEVATION

SPOT ELEVATION AT THE NORTHWEST CORNER OF SECTION 14, T10S, R18E, S.L.B.&M., TAKEN FROM THE MOON BOTTOM QUADRANGLE, UTAH, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5129 FEET.

BASIS OF BEARINGS

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



CONFIDENTIAL

CERTIFICATE

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

*Robert H. Taylor*  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 161319  
STATE OF UTAH 05-09-12

<b>UINTAH ENGINEERING &amp; LAND SURVEYING</b> 85 SOUTH 200 EAST - VERNAL, UTAH 84078 (435) 789-1017		
SCALE 1" = 1000'	DATE SURVEYED: 04-24-12	DATE DRAWN: 04-30-12
PARTY B.H. J.C. H.K.W.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE QEP ENERGY COMPANY	

LEGEND:

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

<b>NAD 83 (TARGET BOTTOM HOLE)</b> LATITUDE = 39°57'11.57" (39.953214) LONGITUDE = 110°02'13.03" (110.036953)	<b>NAD 83 (SURFACE LOCATION)</b> LATITUDE = 39°58'11.32" (39.969811) LONGITUDE = 110°01'52.11" (110.031306)
<b>NAD 27 (TARGET BOTTOM HOLE)</b> LATITUDE = 39°57'11.70" (39.953250) LONGITUDE = 110°02'10.49" (110.036247)	<b>NAD 27 (SURFACE LOCATION)</b> LATITUDE = 39°58'11.45" (39.969847) LONGITUDE = 110°01'50.17" (110.030603)

# QEP ENERGY COMPANY

## WR #11G-5-10-17

LOCATED IN DUCHESNE COUNTY, UTAH  
SECTION 5, T10S, R17E, S.L.B.&M.

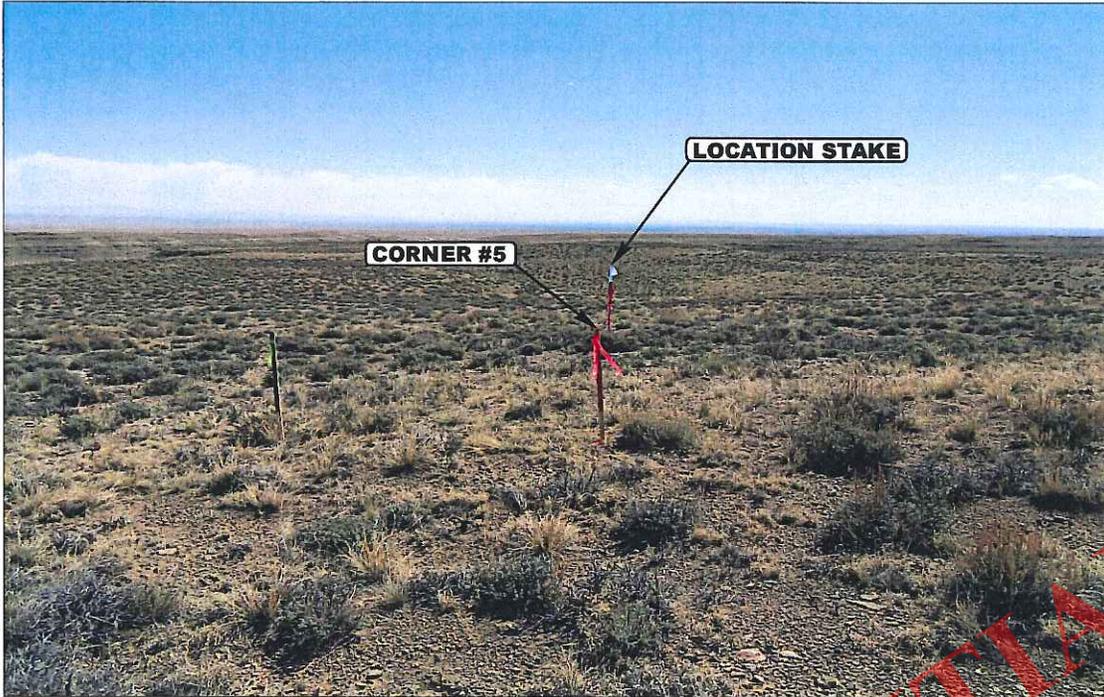


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: EASTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: NORTHERLY



- Since 1964 -

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

<b>LOCATION PHOTOS</b>	<b>05</b>	<b>02</b>	<b>12</b>	<b>PHOTO</b>
	MONTH	DAY	YEAR	
TAKEN BY: B.H.	DRAWN BY: A.T.		REVISED: 00-00-00	

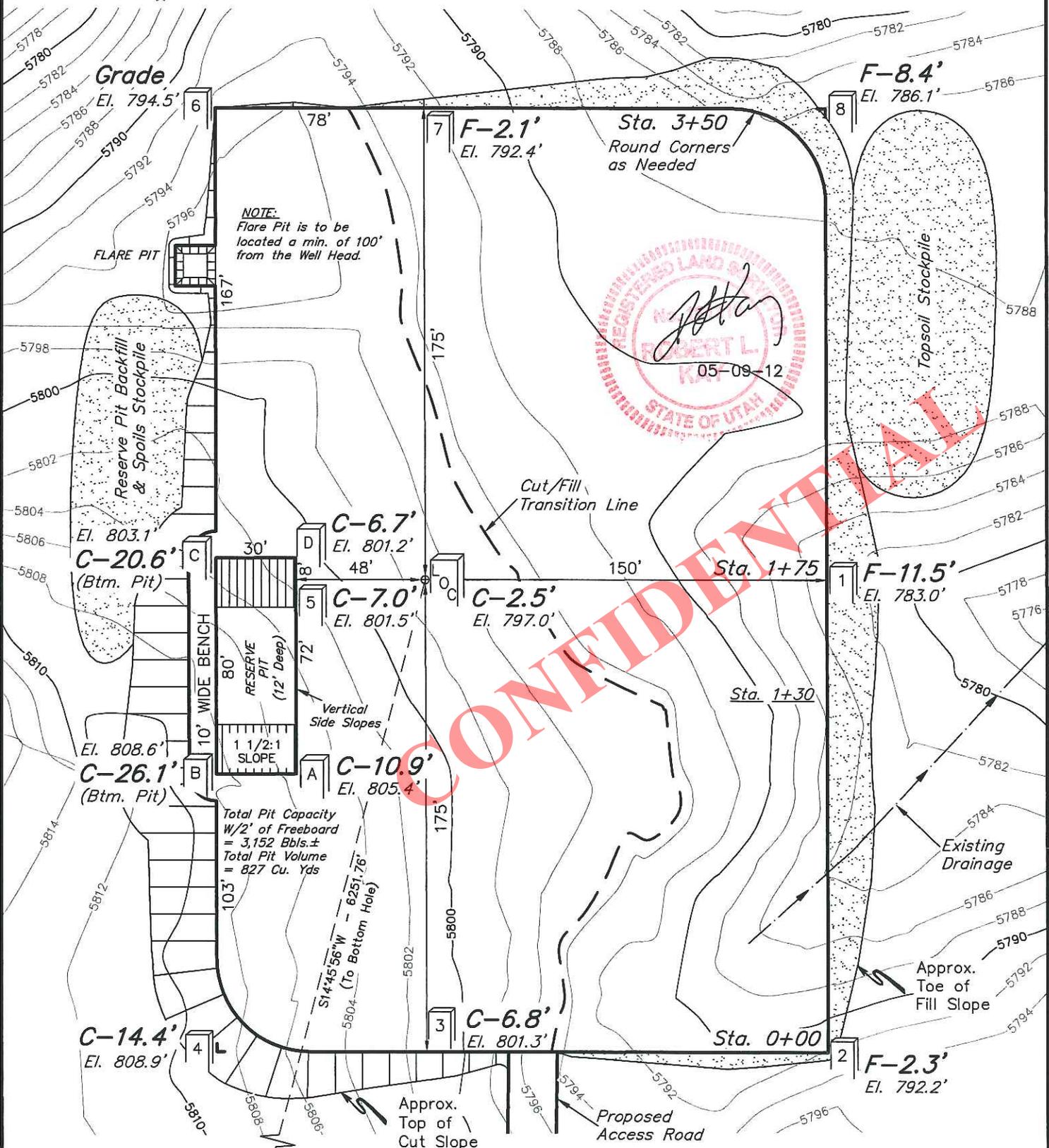
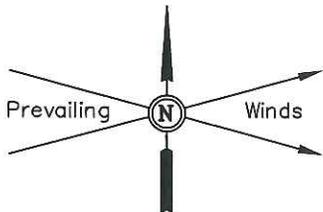
**QEP ENERGY COMPANY**

LOCATION LAYOUT FOR

WR #11G-5-10-17  
SECTION 5, T10S, R17E, S.L.B.&M.  
1500' FSL 2350' FWL

**FIGURE #1**

SCALE: 1" = 50'  
DATE: 04-30-12  
DRAWN BY: H.K.W.



Elev. Ungraded Ground At Loc. Stake = **5797.0'**  
FINISHED GRADE ELEV. AT LOC. STAKE = **5794.5'**

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

**QEP ENERGY COMPANY**

**TYPICAL CROSS SECTIONS FOR**

**WR #11G-5-10-17**

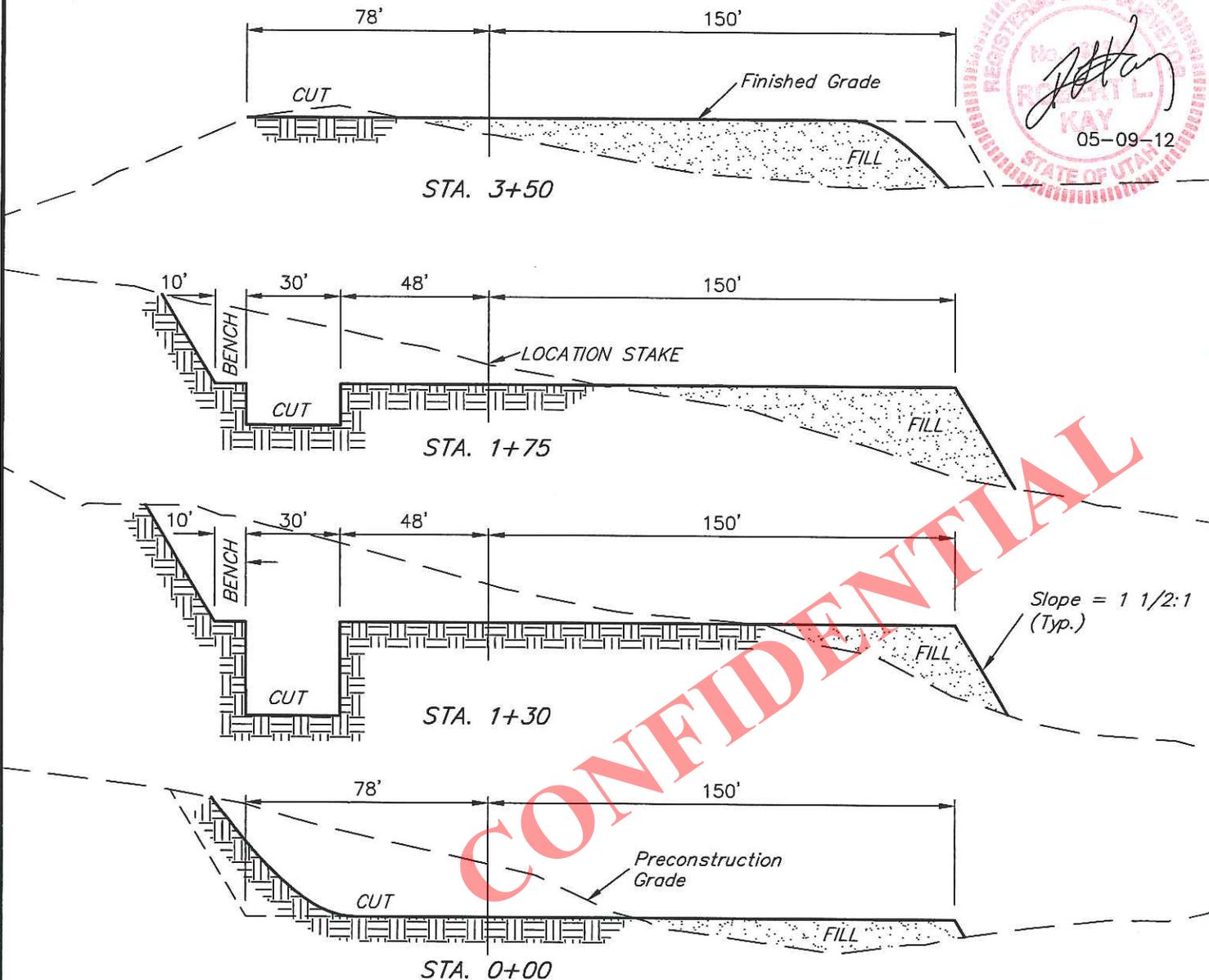
**SECTION 5, T10S, R17E, S.L.B.&M.**

**1500' FSL 2350' FWL**

**FIGURE #2**

DATE: 04-30-12  
DRAWN BY: H.K.W.

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



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**NOTE:**

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

**APPROXIMATE ACREAGES**

WELL SITE DISTURBANCE = ± 2.430 ACRES  
ACCESS ROAD DISTURBANCE = ± 0.074 ACRES  
PIPELINE DISTURBANCE = ± 0.090 ACRES  
TOTAL = ± 2.594 ACRES

\* NOTE:  
FILL QUANTITY INCLUDES 5% FOR COMPACTION

**APPROXIMATE YARDAGES**

(6") Topsoil Stripping = 1,760 Cu. Yds.  
Remaining Location = 8,440 Cu. Yds.  
TOTAL CUT = 10,200 CU. YDS.  
FILL = 8,850 CU. YDS.

EXCESS MATERIAL = 1,350 Cu. Yds.  
Topsoil & Pit Backfill (1/2 Pit Vol.) = 2,170 Cu. Yds.  
EXCESS UNBALANCE (After Interim Rehabilitation) = 820 Cu. Yds.

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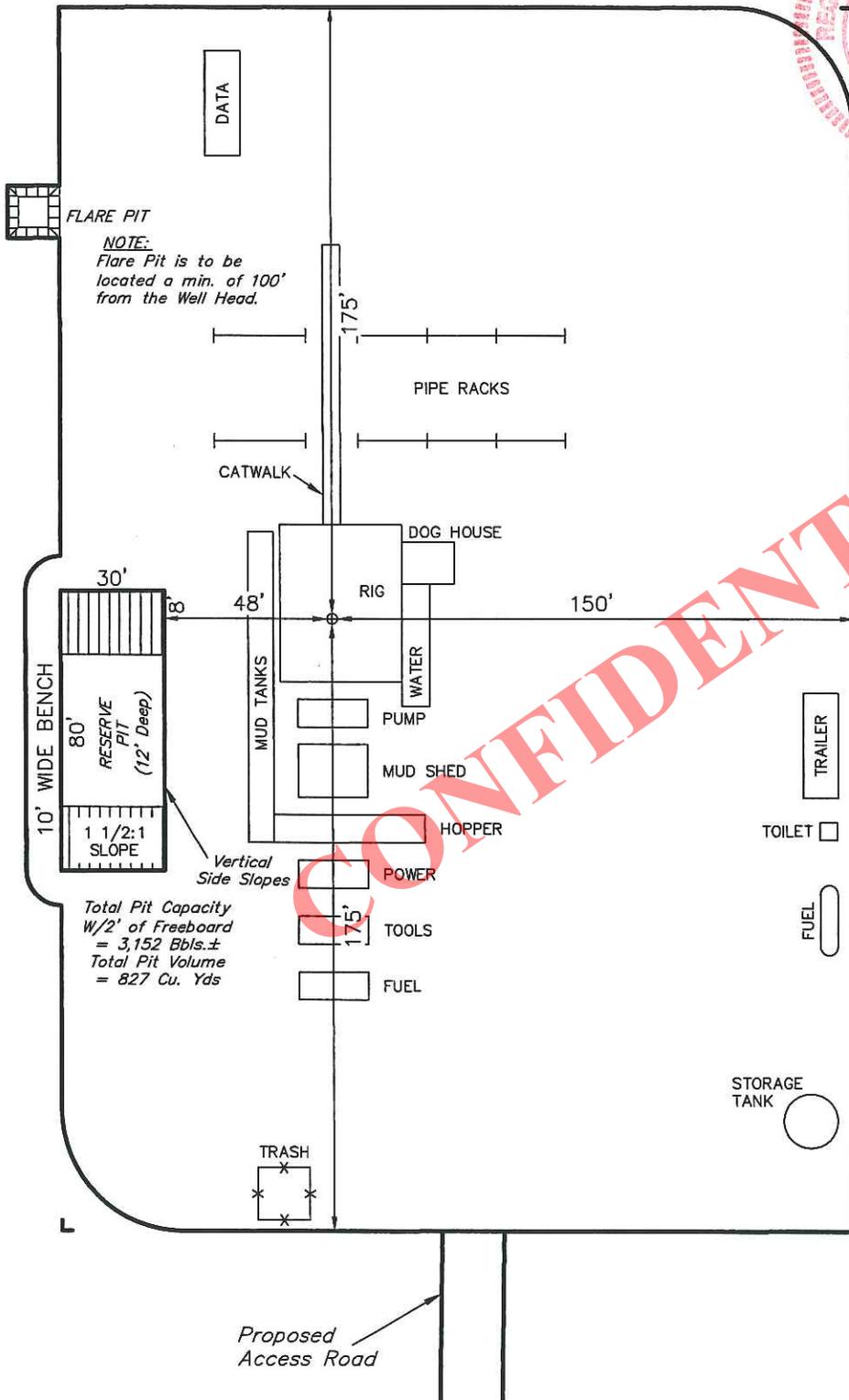
**QEP ENERGY COMPANY**

TYPICAL RIG LAYOUT FOR

WR #11G-5-10-17  
 SECTION 5, T10S, R17E, S.L.B.&M.  
 1500' FSL 2350' FWL

**FIGURE #3**

SCALE: 1" = 50'  
 DATE: 04-30-12  
 DRAWN BY: H.K.W.



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**QEP ENERGY COMPANY**

**INTERIM RECLAMATION PLAN**

WR #11G-5-10-17

SECTION 5, T10S, R17E, S.L.B.&M.

1500' FSL 2350' FWL

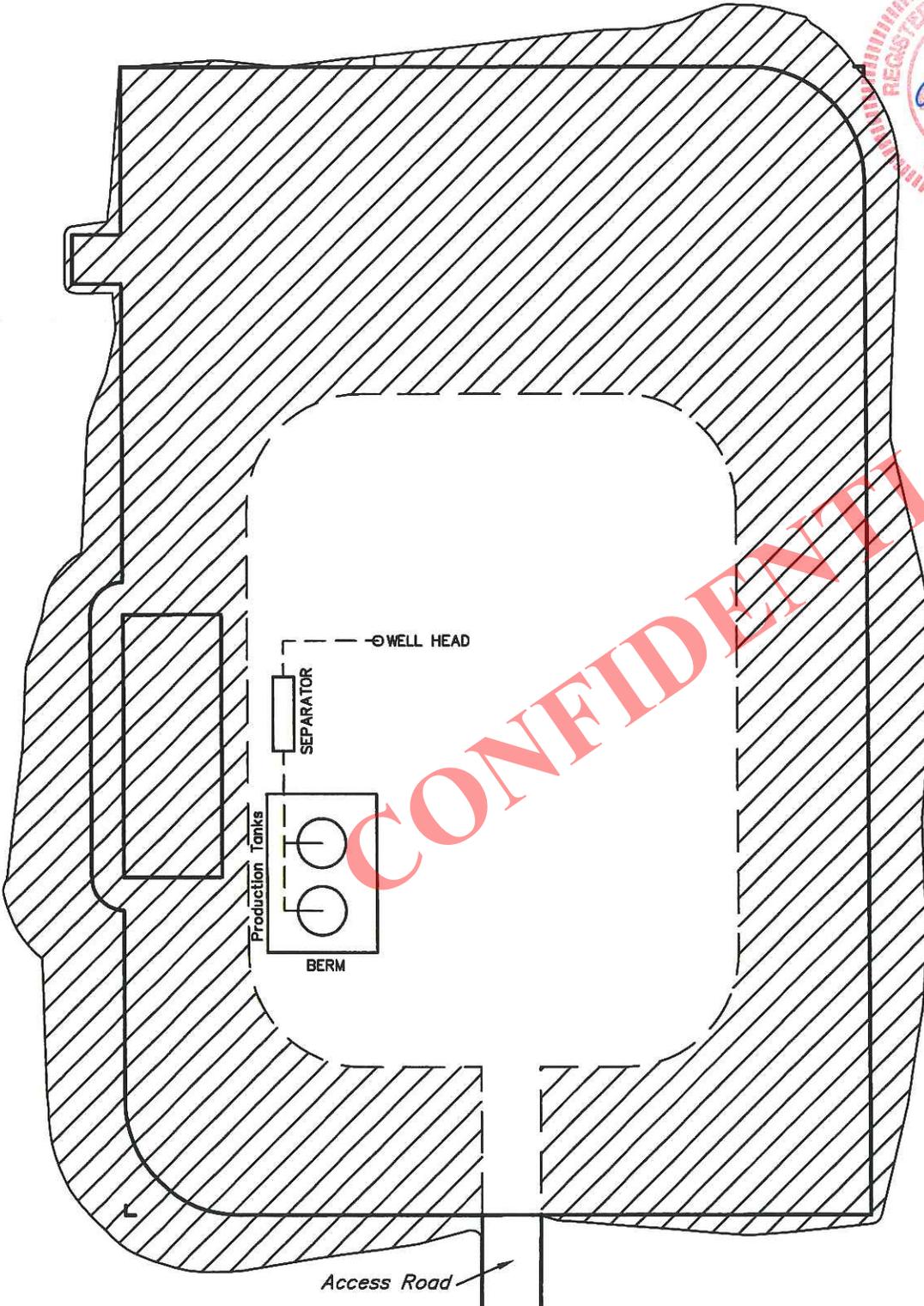
**FIGURE #4**

SCALE: 1" = 50'

DATE: 04-30-12

DRAWN BY: H.K.W.

REVISED: 06-13-12



 RECLAIMED AREA

**APPROXIMATE ACREAGES**  
UN-RECLAIMED = ± 0.701 ACRES

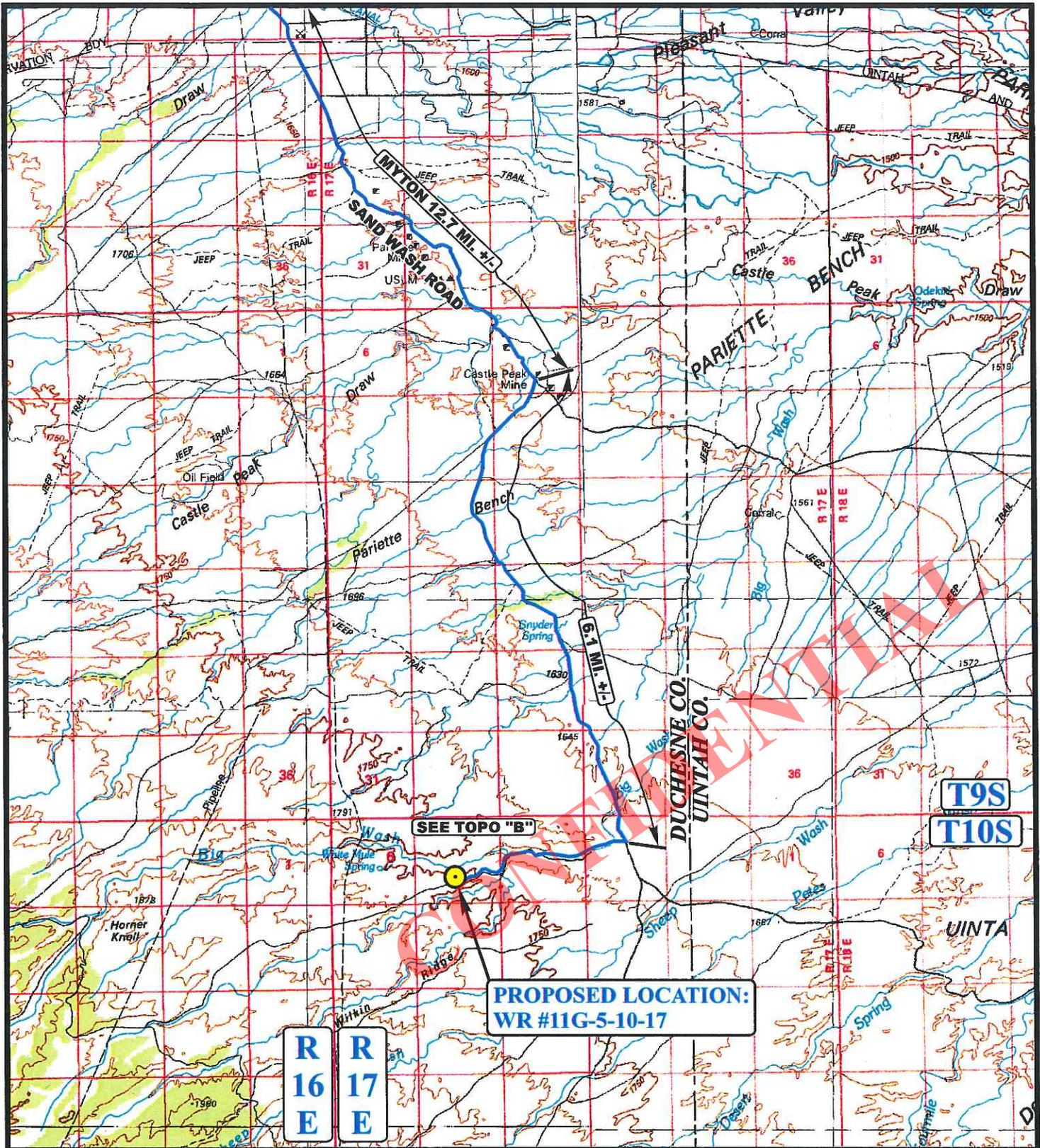
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85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

**QEP ENERGY COMPANY**  
**WR #11G-5-10-17**  
**SECTION 5, T10S, R17E, S.L.B.&M.**

PROCEED IN A WESTERLY DIRECTION FROM MYTON, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 1.5 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 11.2 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 6.1 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 2.3 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE NORTH; FOLLOW ROAD FLAGS IN A NORTHERLY DIRECTION APPROXIMATELY 107' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM MYTON, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 21.1 MILES.

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**PROPOSED LOCATION:  
WR #11G-5-10-17**

**LEGEND:**

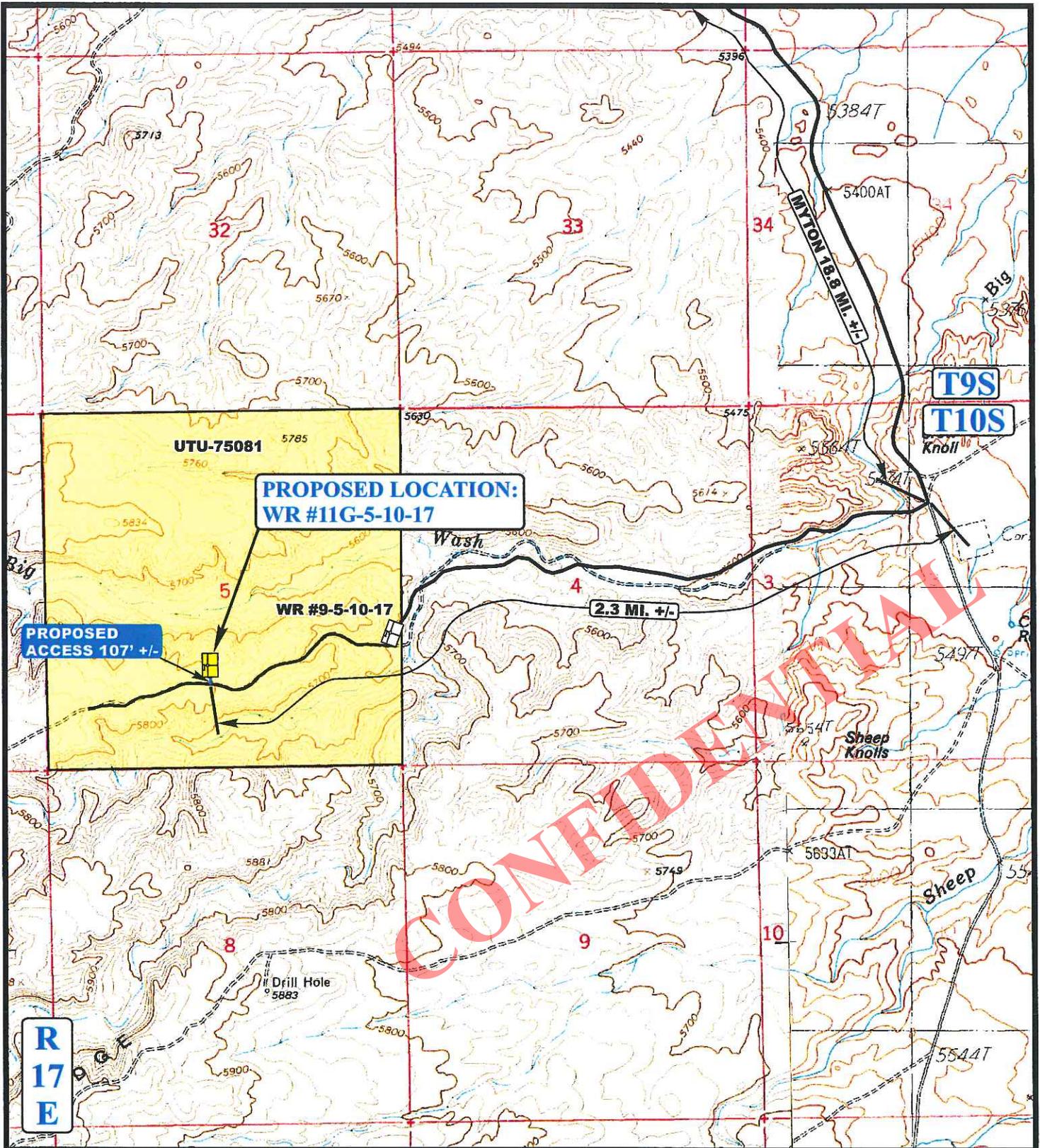
 **PROPOSED LOCATION**

**QEP ENERGY COMPANY**

**WR #11G-5-10-17  
SECTION 5, T10S, R17E, S.L.B.&M.  
1500' FSL 2350' FWL**

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

**ACCESS ROAD MAP** **05** **02** **12**  
MONTH DAY YEAR  
SCALE: 1:100,000 DRAWN BY: A.T. REVISED: 00-00-00 **A**  
TOPO



**LEGEND:**

-  EXISTING ROAD
-  PROPOSED ACCESS ROAD



**QEP ENERGY COMPANY**

**WR #11G-5-10-17**  
**SECTION 5, T10S, R17E, S.L.B.&M.**  
**1500' FSL 2350' FWL**

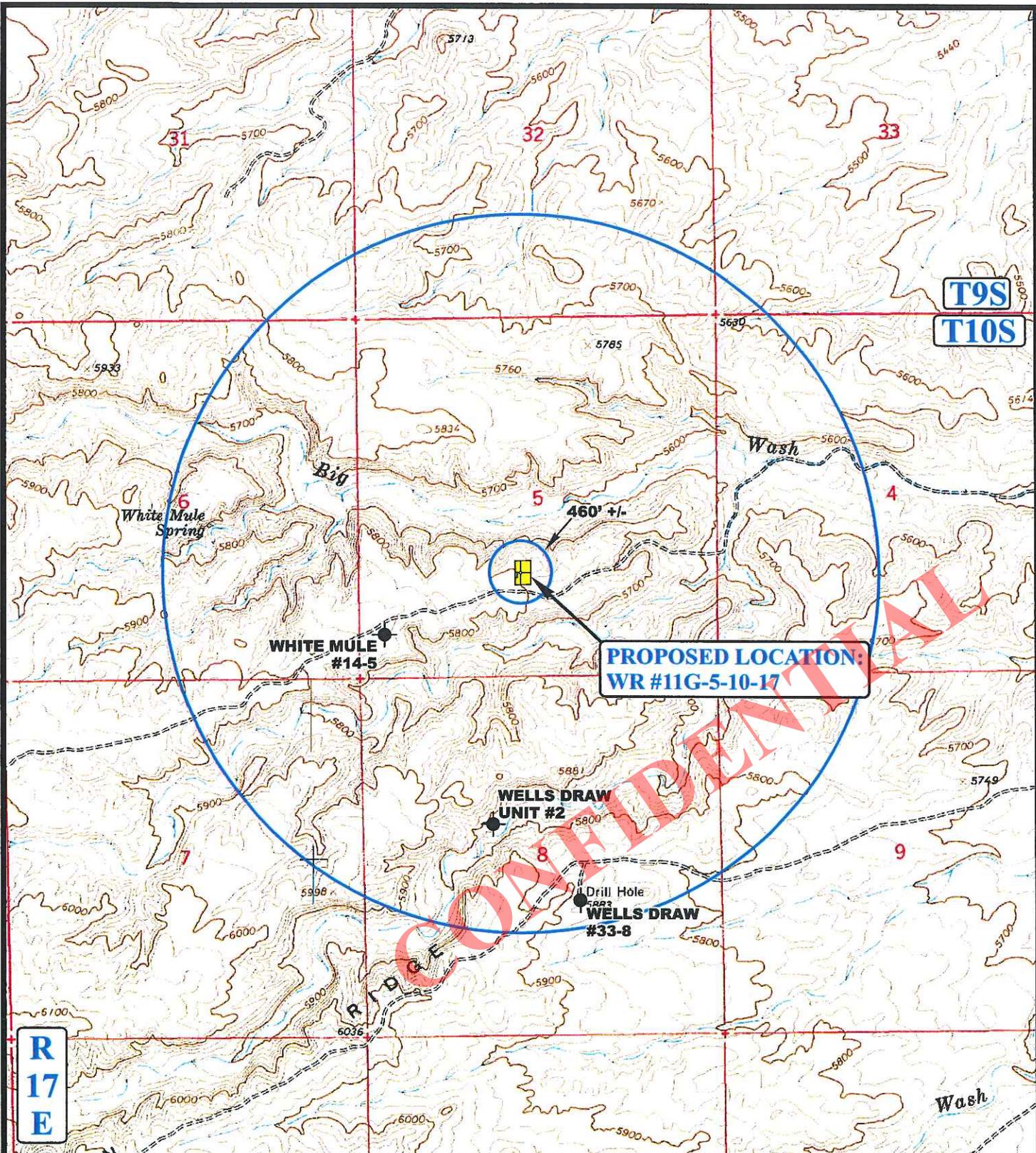
**U E I S**  
**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

**ACCESS ROAD**  
**MAP**

<b>05</b> MONTH	<b>02</b> DAY	<b>12</b> YEAR
--------------------	------------------	-------------------

SCALE: 1" = 2000'    DRAWN BY: A.T.    REVISED: 00-00-00

**B**  
TOPO



**LEGEND:**

- ⊘ DISPOSAL WELLS
- PRODUCING WELLS
- ⊖ SHUT IN WELLS
- ⊙ ABANDONED WELLS
- ⊖ TEMPORARILY ABANDONED



**QEP ENERGY COMPANY**

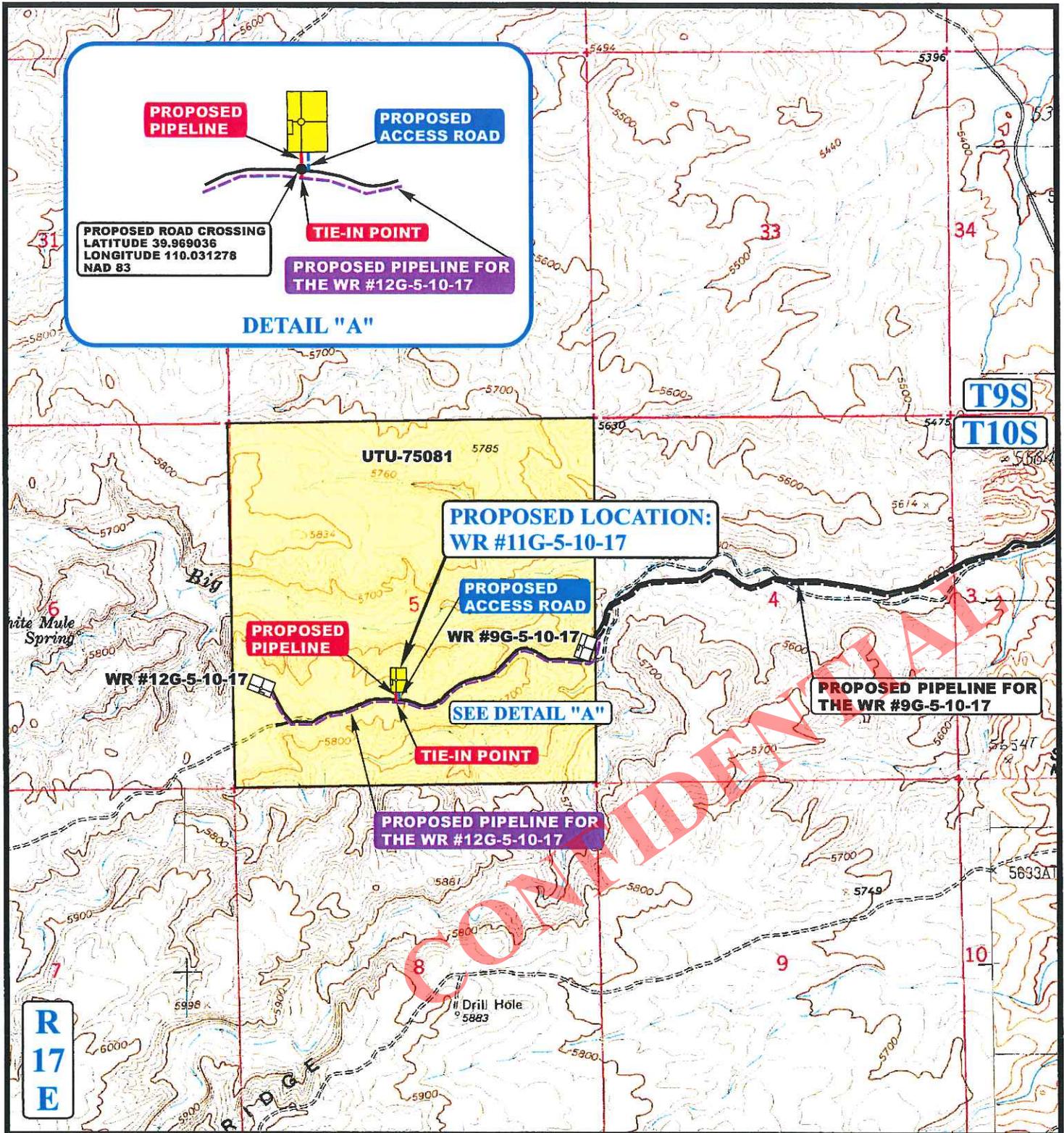
**WR #11G-5-10-17**  
**SECTION 5, T10S, R17E, S.L.B.&M.**  
**1500' FSL 2350' FWL**



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**TOPOGRAPHIC MAP** **05 02 12**  
 MONTH DAY YEAR  
 SCALE: 1" = 2000' DRAWN BY: A.T. REVISED: 00-00-00





**APPROXIMATE TOTAL PIPELINE DISTANCE = 130' +/-**

**LEGEND:**

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



**QEP ENERGY COMPANY**

**WR #11G-5-10-17  
SECTION 5, T10S, R17E, S.L.B.&M.  
1500' FSL 2350' FWL**



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

**TOPOGRAPHIC MAP**  
05 02 12  
MONTH DAY YEAR  
SCALE: 1" = 2000' DRAWN BY: A.T. REVISED: 00-00-00



### **Additional Operator Remarks**

QEP Energy Company proposes to drill the WR 11G5-10-17 and drill a horizontal oil well to test the Uteland Butte Member of the Green River Formation. If productive, casing will be run and the well completed. If dry, the well be plugged and abandoned as per BLM and State of Utah requirements.

See Onshore Oil & Gas Order No. 1

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.

### **Information for Dual Laterals**

#### **Surface Location**

1500' FSL, 2350' FWL, NESW, Section 5, T10S, R17E, Lease Number UTU-75081

#### **Lateral 1**

760' FSL, 760' FWL, SWSW, Section 8, T10S, R17E, Lease Number UTU-75081  
6,045.95 Lateral Leg Length @ 194.67 Azimuth (See Attached Drilling Plans)  
TD: 11,488' MD

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**QEP ENERGY COMPANY  
WR 11G-5-10-17  
NESW, SECTION 5, T10S, R17E  
DUCHESNE COUNTY, UT  
LEASE # UTU-75081**

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

An onsite inspection was conducted for the WR 11G-5-10-17 on June 7, 2012. 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
Jimmy Mckenzie	Bureau of Land Management
Valyn Davis	QEP Energy Company
Stephanie Tomkinson	QEP Energy Company
Amanda Taylor	QEP Energy Company
Sam White	QEP Energy Company
Eric Wickersham	QEP Energy Company
Cody Rich	Uintah Engineering & Land Surveying

**1. Existing Roads:**

See attached Wellsite Plats showing directional reference stakes on location, and attached TOPO Map "B" showing access to location from existing roads.

The proposed well site is located approximately 19 miles southeast of Myton, Utah.

-See attached TOPO Map "A".

Existing roads will be upgraded, maintained and repaired as necessary.

**2. Planned Access Roads:**

**An offlease right-of-way is not required. The entire well pad and access road are located within the Scylla Unit.**

There will be a new access road approximately 107' in length, 30' in width, containing approximately .074 acres.

New access roads on BLM surface will be crowned (2 to 3%), ditched, and constructed with a running surface of 18 feet and a maximum disturbed width of 30 feet. Any additional disturbance required due to intersections or sharp curves will be discussed at the on-site and approved by the BLM.

Graveling or capping the roadbed will be performed as necessary to provide a

well constructed, safe road. Surface disturbance and vehicular traffic will be limited to the approved location and access route or, as proposed by the Operator.

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.

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.

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.

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

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

A map will be provided with the site-specific APD showing the location of existing wells within a one mile radius.

Please refer to Topo map C.

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

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 BLM.

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

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

Fresh water will be obtained from Wonsits Valley water right # 49-251 (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. Fresh water may also be obtained from Neil Moon Pond water right #43-11787, or Myton City Water, Myton, Utah.

**6. Source of Construction Materials:**

Surface and subsoil materials in the immediate area will be utilized.

Any gravel will be obtained from a commercial source.

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

Drill cuttings will be contained and buried in the reserve pit.

Drilling fluids including salts and chemicals will be contained in the reserve pit. Upon termination of drilling and completion operations, the liquid contents of the reserve pit will be used at the next drill site or will be removed and disposed of at an approved waste disposal facility 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 destroy or damage the pit walls. The reserve pit will be constructed so that it will not leak, break, or allow discharge of liquids.

It was determined at the on-site inspection that 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.

#### **Disposal of Produced Water:**

After first production, produced wastewater will be confined to the approved pit or storage tank for a period not to exceed 90 days. During the 90 day period, in accordance with Onshore Order # 7, all produced water will be contained in tanks on location.

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

West End Disposal located in the NESE, Section 28, T7S, R22E,  
NBE 12 SWD-10-9-23 located in the NWSW, Section 10, 9S, 23E,  
Lapoint Recycle & Storage located in Sec. 12, T5S, R19E, Uintah County, UT or  
Western Water Solutions- Sand Pass, located in Sec. 9 &10, T4S, R1W.

Produced water, oil, and other byproducts will not be applied to roads or well pads for 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:**

This will be an independent well location. Product will be contained in two 500 bbl tanks and then transported from location to delivery site.

A suitable muffler will be installed on pumping unit to help reduce noise control.

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

**GAS SALES LINE:** The pipeline will be unpainted steel, 4" inside diameter, welded, schedule # 20 or greater. The pipeline will be 130' in length, containing approximately 0.090 acres. The pipeline will be strung along the proposed access route and welded into place. The pipeline will tie into the proposed pipe line for the WR 12G-5-10-17, the tie-in point is located in Sec. 5, T10S, R17E.

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

**9. Well Site Layout:**

A Location Layout Diagram describing drill pad cross-sections, cuts and fills, and locations of mud tanks, reserve pits, flare pit or flare box, pipe racks, trailer parking, spoil dirt stockpile(s), and the surface material stockpile(s) will be included with the site specific APD.

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 the 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.

**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. Reclamation Plan:**

Reclamation will follow QEP Energy Company, Uinta Basin Division's Reclamation Plan, September 2009 (QEP Energy 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 disced 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 QEP Energy Company's Reclamation Plan. Weed control will be conducted as stated in QEP Energy Company's Reclamation Plan.

A reference site and weed data sheet have been established and are included in this application.

Please see attached Weed Data Sheet.

**Dry Hole/Abandoned Location:**

On lands administered by the BLM abandoned well sites, roads, and other disturbed areas will be restored as near as practical to their original condition. Where applicable, these conditions may include the reestablishment of irrigation systems; reestablishment of appropriate soil conditions; and, the reestablishment of vegetation as specified.

All disturbed surfaces will be recontoured to approximate natural contours, with reclamation of the well pad and access road to be performed as soon as practical after final abandonment.

At final abandonment, the Operator will cap the casing with a metal plate a minimum of 0.25 inch thick. The cap will be welded in place and the well location and identity will be permanently inscribed on the cap. The cap will be constructed with a weep hole. The depth of the permanent cap will be determined at the time of final abandonment. Long-term reclamation will then be applied and will follow the reclamation process described in this plan. When reclamation is deemed successful by the Operator and the BLM, the Operator will request a bond release.

**12. Surface Ownership:**

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

Bureau of Land Management  
170 South 500 East  
Vernal, UT 84078

**13. Other Information:**

Drilling rigs and/or equipment used during drilling operations will not be stacked or stored on Federal lands or State administered lands after the conclusion of drilling operations or at any other time without authorization by the BLM Authorized Officer. If BLM authorization is obtained, such storage is only a temporary measure.

A Class III archeological survey was conducted by Montgomery Archaeology Consultants. A copy of this report was submitted on December 7, 2012, **State of Utah Antiquities Report U-12-MQ-1090b** by Montgomery Archaeology Consultants. Cultural resource clearance has been recommended for this project.

A paleontological survey was conducted by Intermountain Paleo Consulting. A copy of this report was submitted on July 9, 2012, Report **No. IPC 12-86** by Stephen D. Sandau. Due to the number of fossils found during this survey, it is recommended that a permitted paleontologist be present to monitor the

construction process of the well pad, access road and pipeline. QEP Energy Company will provide paleo monitor for this project.

**Per the onsite meeting on June 7, 2012,** the following items were requested/discussed.

There is 4" topsoil.

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

Jan Nelson  
Permit Agent  
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

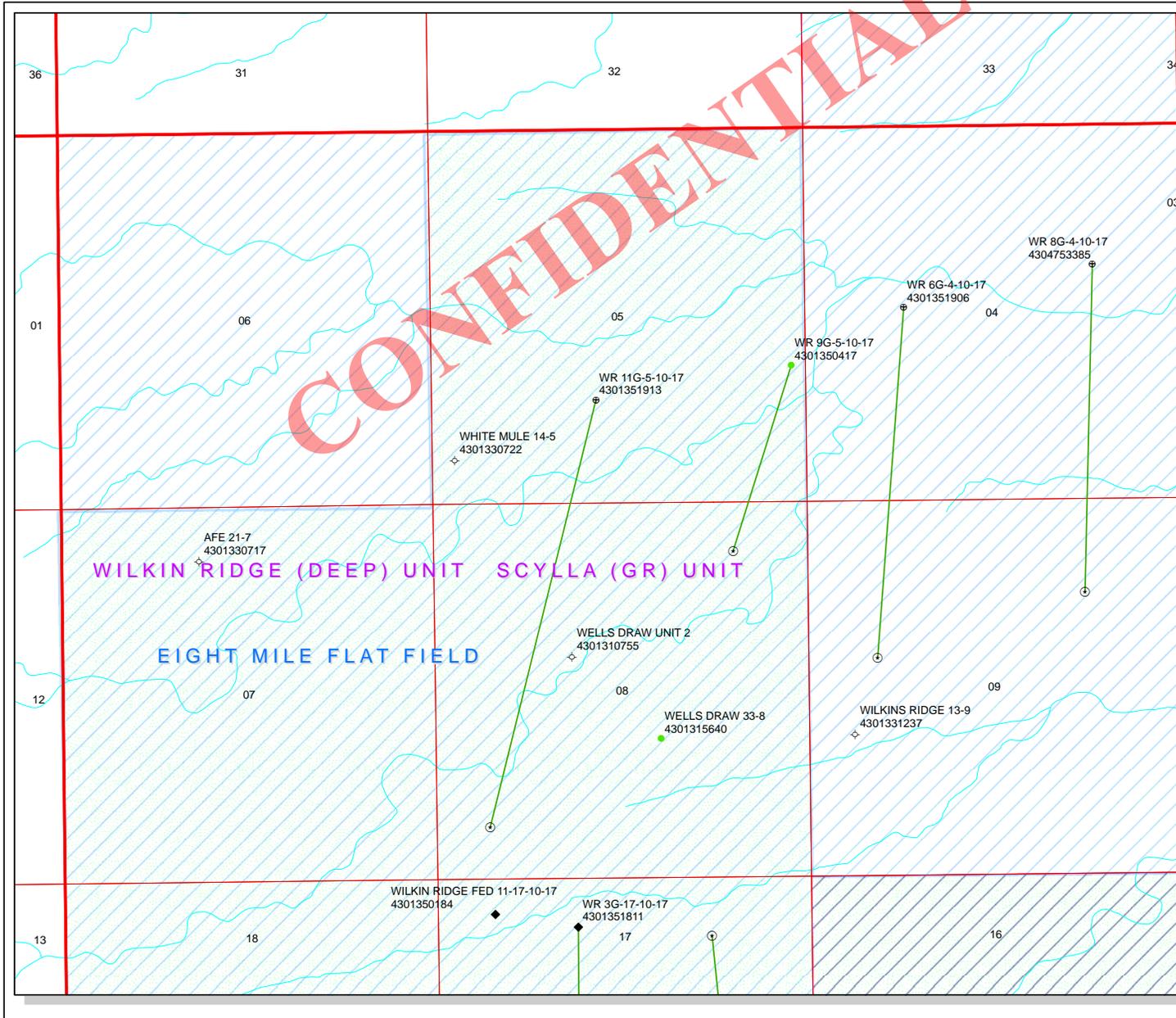
I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operations; that the statements made in this plan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

  
\_\_\_\_\_  
Jan Nelson

12/12/2012

\_\_\_\_\_  
Date

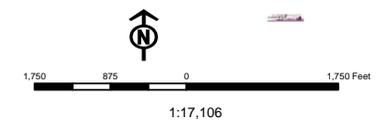
CONFIDENTIAL



**API Number: 4301351913**  
**Well Name: WR 11G-5-10-17**  
**Township T10.0S Range R17.0E Section 05**  
**Meridian: SLBM**  
**Operator: QEP ENERGY COMPANY**

Map Prepared:  
 Map Produced by Diana Mason

Units STATUS	Wells Query Status
ACTIVE	APD - Approved Permit
EXPLORATORY	DRIL - Spudded (Drilling Commenced)
GAS STORAGE	GIW - Gas Injection
NF PP OIL	GS - Gas Storage
NF SECONDARY	LOC - New Location
PI OIL	OPS - Operation Suspended
PP GAS	PA - Plugged Abandoned
PP GEOTHERM.	PGW - Producing Gas Well
PP OIL	POW - Producing Oil Well
SECONDARY	SGW - Shut-in Gas Well
TERMINATED	SOW - Shut-in Oil Well
Unknown	TA - Temp. Abandoned
ABANDONED	TW - Test Well
ACTIVE	WDW - Water Disposal
COMBINED	WW - Water Injection Well
INACTIVE	WSW - Water Supply Well
STORAGE	Bottom Hole Location - Oil/Gas/Dls
TERMINATED	



# 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)

December 20, 2012

Memorandum

To: Assistant District Manager Minerals, Vernal District  
 From: Michael Coulthard, Petroleum Engineer  
 Subject: 2012 Plan of Development Scylla Unit,  
 Duchesne 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 2012 within the Scylla Unit, Duchesne County, Utah

API #	WELL NAME	LOCATION
(Proposed PZ GREEN RIVER)		
43-013-51913	WR 11G-5-10-17	Sec 05 T10S R17E 1500 FSL 2350 FWL
	Lateral 1	Sec 08 T10S R17E 0760 FSL 0760 FWL
43-013-51921	WR 1G-3-10-17	Sec 03 T10S R17E 0500 FNL 0700 FEL
	Lateral 1	Sec 10 T10S R17E 0700 FNL 1000 FEL
43-013-51922	WR 2G-10-10-17	Sec 10 T10S R17E 0385 FNL 2350 FEL
	Lateral 1	Sec 10 T10S R17E 0660 FSL 0660 FWL
43-013-51928	WR 8G-4-10-17	Sec 04 T10S R17E 1961 FNL 1115 FEL
	Lateral 1	Sec 09 T10S R17E 1300 FNL 1300 FEL
43-013-51929	WR 2G-3-10-17	Sec 03 T10S R17E 0900 FNL 2450 FEL
	Lateral 1	Sec 10 T10S R17E 0660 FNL 1000 FWL
43-013-51930	WR 3G-9-10-17	Sec 09 T10S R17E 1070 FNL 2029 FWL
	Lateral 1	Sec 09 T10S R17E 0660 FSL 0660 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: 2012.12.20 10:21:45 -0700

RECEIVED: December 20, 2012

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

MCoulthard:mc:12-20-12

**CONFIDENTIAL**

## WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 12/12/2012

API NO. ASSIGNED: 43013519130000

WELL NAME: WR 11G-5-10-17

OPERATOR: QEP ENERGY COMPANY (N3700)

PHONE NUMBER: 435 781-4331

CONTACT: Jan Nelson

PROPOSED LOCATION: NESW 05 100S 170E

Permit Tech Review: 

SURFACE: 1500 FSL 2350 FWL

Engineering Review: 

BOTTOM: 1500 FSL 2350 FWL

Geology Review: 

COUNTY: DUCHESNE

LATITUDE: 39.96971

LONGITUDE: -110.03142

UTM SURF EASTINGS: 582715.00

NORTHINGS: 4424844.00

FIELD NAME: EIGHT MILE FLAT

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU75081

PROPOSED PRODUCING FORMATION(S): UTELAND BUTTE

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: 49-251/49-2153
- RDCC Review:
- Fee Surface Agreement
- Intent to Commingle

Commingling Approved

## LOCATION AND SITING:

- R649-2-3.
- Unit: SCYLLA (GR)
- R649-3-2. General
- R649-3-3. Exception
- Drilling Unit
- Board Cause No: R649-3-2
- Effective Date:
- Siting:
- R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 4 - Federal Approval - dmason  
23 - Spacing - dmason  
27 - Other - bhll



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:** WR 11G-5-10-17  
**API Well Number:** 43013519130000  
**Lease Number:** UTU75081  
**Surface Owner:** FEDERAL  
**Approval Date:** 12/24/2012

### 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 R649-3-2. The expected producing formation or pool is the UTELAND BUTTE 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.

This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

In accordance with Utah Admin. R.649-3-21, the operator shall submit a complete

angular deviation and directional survey report to the Division within 30 days following completion of the well.

**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:**



For John Rogers  
Associate Director, Oil & Gas

<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>		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU75081
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> SCYLLA (GR)
<b>1. TYPE OF WELL</b> Oil Well	<b>8. WELL NAME and NUMBER:</b> WR 11G-5-10-17	
<b>2. NAME OF OPERATOR:</b> QEP ENERGY COMPANY	<b>9. API NUMBER:</b> 43013519130000	
<b>3. ADDRESS OF OPERATOR:</b> 11002 East 17500 South , Vernal, Ut, 84078	<b>PHONE NUMBER:</b> 303 308-3068 Ext	<b>9. FIELD and POOL or WILDCAT:</b> EIGHT MILE FLAT
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1500 FSL 2350 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NESW Section: 05 Township: 10.0S Range: 17.0E Meridian: S		<b>COUNTY:</b> DUCHESNE
		<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"/> SUBSEQUENT REPORT Date of Work Completion:  <input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 7/24/2013  <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <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"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <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 type="text"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
ON 7/24/2013- QEP ENERGY COMPANY SET 80' OF 14" CONDUCTOR PIPE AND CEMENTED WITH READY MIX.		
<b>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY July 25, 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> 7/25/2013	



**SURFACE ON WR 11G-5-10-17**

43 013 51913

IDS 17E 5

**Rig - SST 88 (Contractor)** <rwrig.6@qepres.com>

Fri, Jul 26, 2013 at 2:17 PM

To: "ut\_vn\_opreport@blm.gov" <ut\_vn\_opreport@blm.gov>

Cc: "chrisjensen@utah.gov" <chrisjensen@utah.gov>, "caroldaniels@utah.gov" <caroldaniels@utah.gov>, Jan Nelson <Jan.Nelson@qepres.com>

We will be drilling and setting surface on this well. Please give me a call at 435-828-0396 if any problems.  
Thanks—Dave Harding—



**NotificationForm\_Fillable.doc**

43K

**RECEIVED**

**JUL 26 2013**

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

BLM - Vernal Field Office - Notification Form

Operator QEP ENERGY Rig Name/# PETE MARTIN #1  
Submitted By DAVID REID Phone Number 435-828-0396  
Well Name/Number WR 11G-5-10-17  
Qtr/Qtr NE/SW Section 5 Township 10S Range 17E  
Lease Serial Number UTU75081  
API Number 43-013-51913

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

Date/Time 7/24/2013 10:00 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

Remarks We will be drilling and setting 80 ft of 14 inch conductor with pete martin

**RECEIVED**  
**JUL 23 2013**  
DIV. OF OIL, GAS & MINING

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9  5. LEASE DESIGNATION AND SERIAL NUMBER: UTU75081
<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: SCYLLA (GR)
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: WR 11G-5-10-17
2. NAME OF OPERATOR: QEP ENERGY COMPANY	9. API NUMBER: 43013519130000
3. ADDRESS OF OPERATOR: 11002 East 17500 South , Vernal, Ut, 84078	PHONE NUMBER: 303 308-3068 Ext
9. FIELD and POOL or WILDCAT: EIGHT MILE FLAT	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1500 FSL 2355 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 05 Township: 10.0S Range: 17.0E Meridian: S	COUNTY: DUCHESNE  STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 7/17/2013  <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE  <input checked="" 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 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 WR 11G-5-10-17 TO A HORIZONTAL OIL WELL. NEW BOTTOM HOLE FOOTAGES ARE: 760' FSL, 760' FWL, SWSW, SEC. 8, T10S, R17E, LATITUDE: 39.953214, LONGITUDE: 110.036953. QEP ENERGY COMPANY REQUESTS TO CHANGE THE SURFACE HOLE LOCATION ON THE WR 11G-5-10-17 IN ORDER TO ACCOMODATE A CHANGE IN THE DRILLING RIG USED TO DRILL THIS LOCATION. NEW SURFACE HOLE FOOTAGES ARE: 1500' FSL, 2355' FWL, NESW, SEC. 5, T10S, R17E, LATITUDE: 39.969811, LONGITUDE: 110.031292. NO ADDITIONAL SURFACE DISTURBANCE IS REQUIRED FOR THIS ACTION. PLEASE SEE ATTACHED: PLAT PACKAGE

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

**Date:** August 15, 2013

**By:**

NAME (PLEASE PRINT) Valyn Davis	PHONE NUMBER 435 781-4369	TITLE Regulatory Affairs Analyst
SIGNATURE N/A		DATE 7/18/2013



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
440 West 200 South, Suite 500  
Salt Lake City, UT 84101

**IN REPLY REFER TO:**

3160  
(UT-922)

August 12, 2013

Memorandum

To: Assistant Field Office Manager Minerals,  
Vernal Field Office

From: Michael Coulthard, Petroleum Engineer

Subject: 2013 Plan of Development Scylla Unit,  
Duchesne County, Utah.

Pursuant to email between Diana Mason, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following well's surface location has been modified (please refer to our memo dated December 20, 2012). The well is planned for calendar year 2013 within the Scylla Unit, Duchesne County, Utah

API #	WELL NAME	LOCATION
	(Proposed PZ GREEN RIVER)	
43-013-51913	WR 11G-5-10-17 Sec 05	T10S R17E 1500 FSL 2355 FWL
	Lateral 1 Sec 08	T10S R17E 0760 FSL 0760 FWL

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

Michael Coulthard

Digitally signed by Michael Coulthard  
DN: cn=Michael Coulthard, o=Bureau of Land  
Management, ou=Division of Minerals,  
email=mcoultha@blm.gov, c=US  
Date: 2013.08.12 09:59:07 -06'00'

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

MCoulthard:mc:8-12-13

RECEIVED: Aug. 13, 2013

**QEP ENERGY COMPANY**  
**WR #11G-5-10-17**  
**LOCATED IN DUCHESNE COUNTY, UTAH**  
**SECTION 5, T10S, R17E, S.L.B.&M.**

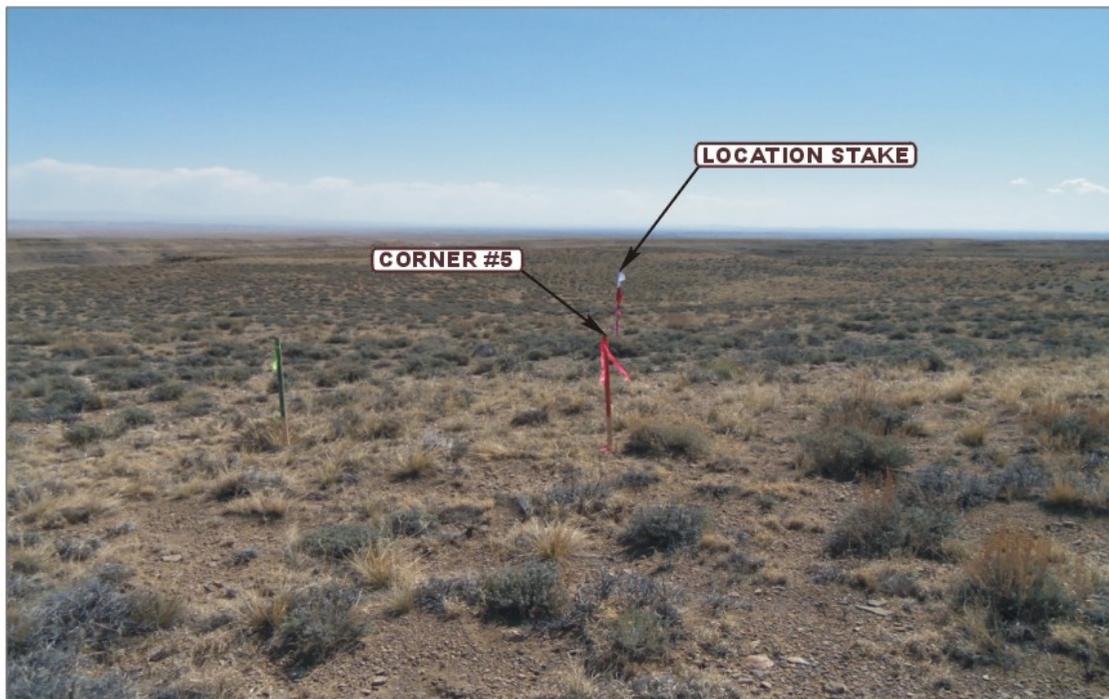


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: EASTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: NORTHERLY



- Since 1964 -

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

<b>LOCATION PHOTOS</b>	<b>05</b>	<b>02</b>	<b>12</b>	<b>PHOTO</b>
	MONTH	DAY	YEAR	
TAKEN BY: B.H.	DRAWN BY: A.T.		REVISED: 00-00-00	

# T10S, R17E, S.L.B.&M.

## QEP ENERGY COMPANY

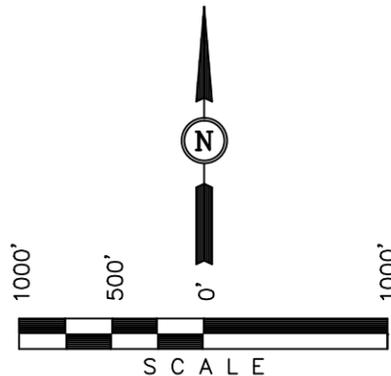
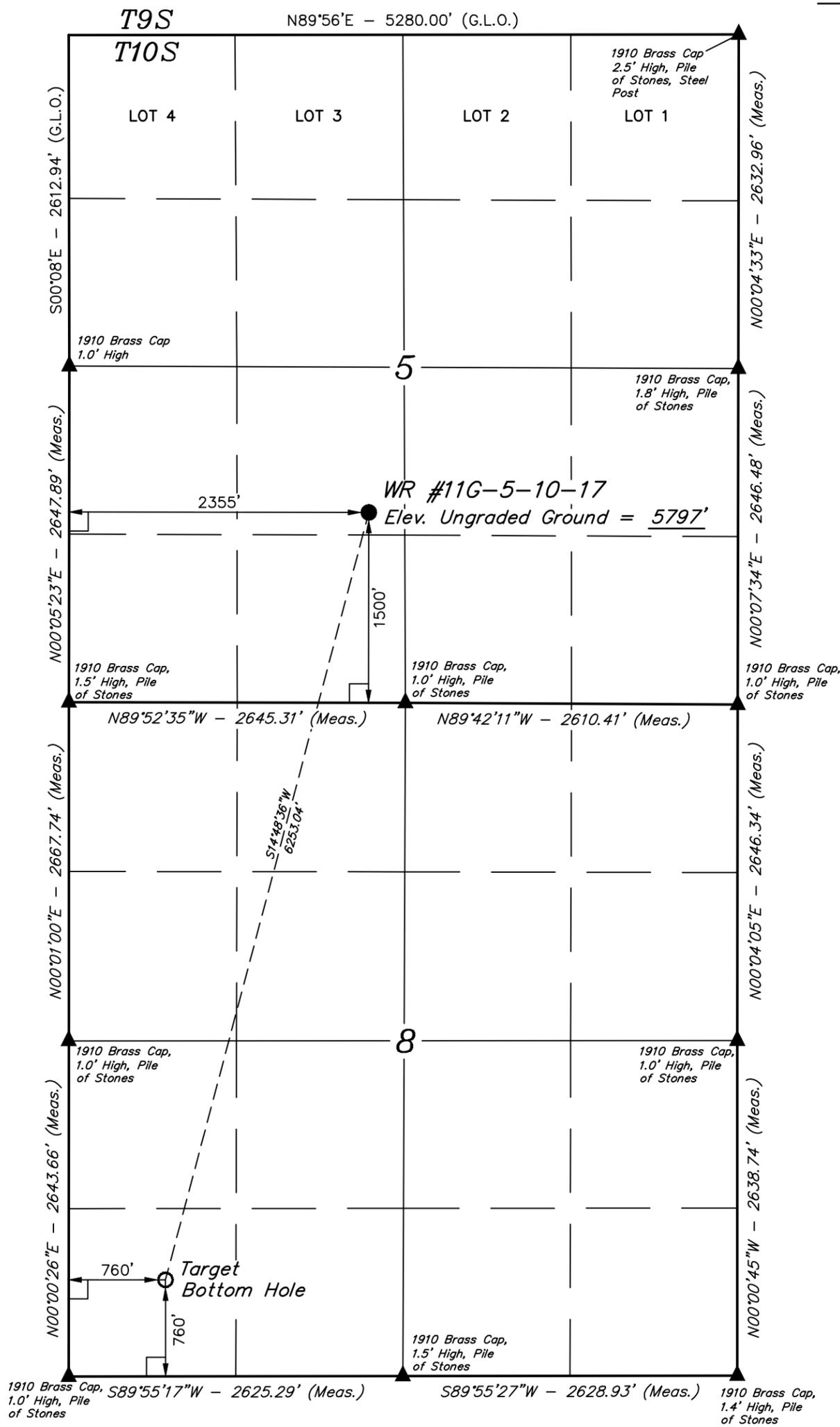
Well location, WR #11G-5-10-17, located as shown in the NE 1/4 SW 1/4 of Section 5, T10S, R17E, S.L.B.&M., Duchesne County, Utah.

### BASIS OF ELEVATION

SPOT ELEVATION AT THE NORTHWEST CORNER OF SECTION 14, T10S, R18E, S.L.B.&M., TAKEN FROM THE MOON BOTTOM QUADRANGLE, UTAH, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5129 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 SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 161319  
 STATE OF UTAH

REVISED: 07-16-13

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

### LEGEND:

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

NAD 83 (TARGET BOTTOM HOLE)	NAD 83 (SURFACE LOCATION)
LATITUDE = 39°57'11.57" (39.953214)	LATITUDE = 39°58'11.32" (39.969811)
LONGITUDE = 110°02'13.03" (110.036953)	LONGITUDE = 110°01'52.65" (110.031292)
NAD 27 (TARGET BOTTOM HOLE)	NAD 27 (SURFACE LOCATION)
LATITUDE = 39°57'11.70" (39.953250)	LATITUDE = 39°58'11.45" (39.969847)
LONGITUDE = 110°02'10.49" (110.036247)	LONGITUDE = 110°01'50.11" (110.030586)
STATE PLANE NAD 83	STATE PLANE NAD 83
N: 7155035.60 E: 2050529.32	N: 7161106.95 E: 2052016.75

SCALE 1" = 1000'	DATE SURVEYED: 04-24-12	DATE DRAWN: 04-30-12
PARTY B.H. J.C. H.K.W.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE QEP ENERGY COMPANY	

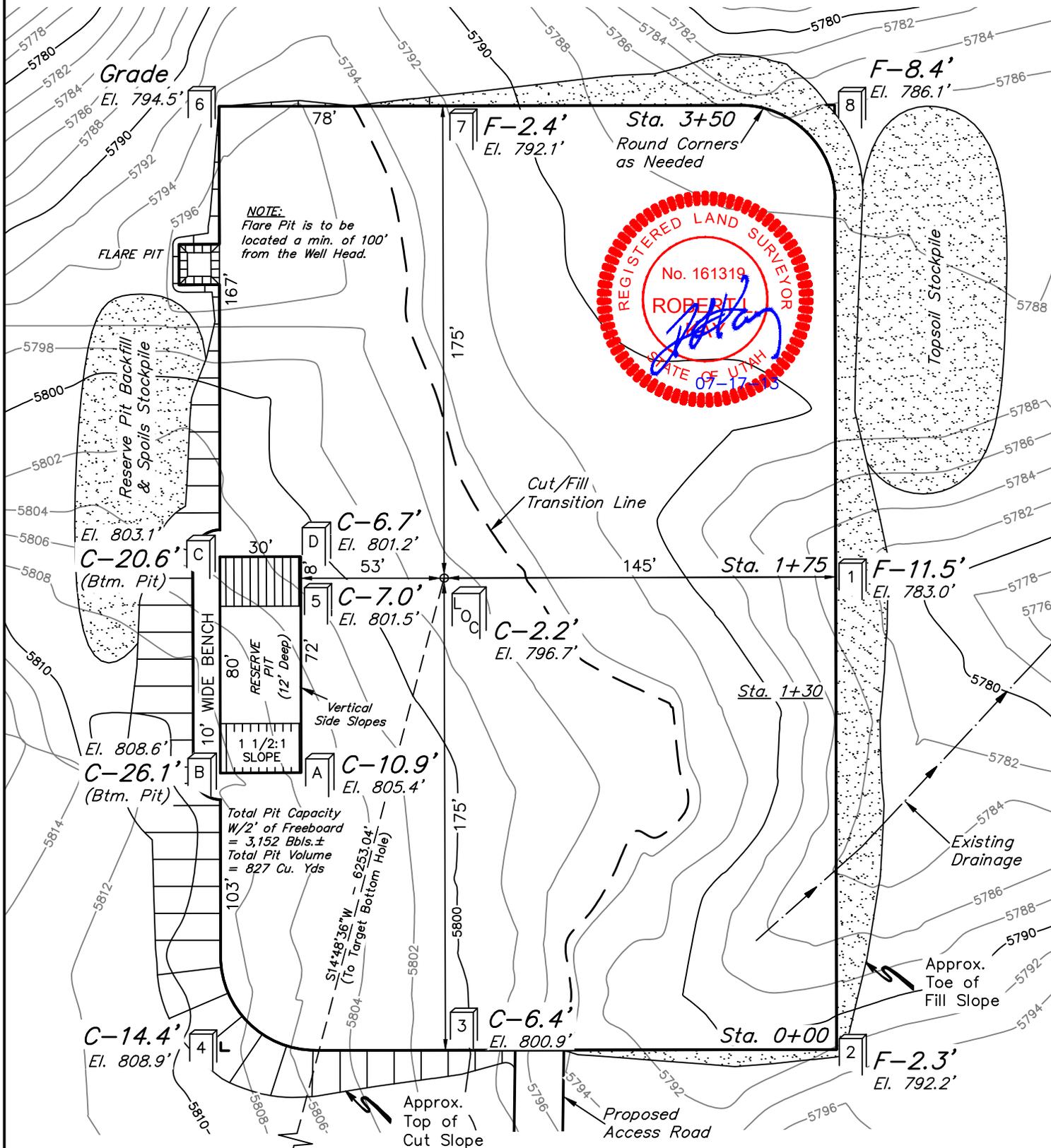
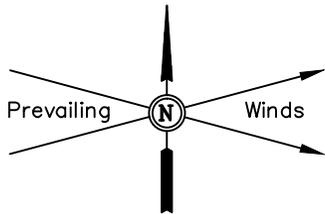
**QEP ENERGY COMPANY**

LOCATION LAYOUT FOR

WR #11G-5-10-17  
SECTION 5, T10S, R17E, S.L.B.&M.  
1500' FSL 2355' FWL

**FIGURE #1**

SCALE: 1" = 50'  
DATE: 04-30-12  
DRAWN BY: H.K.W.  
REV: 07-16-13



Elev. Ungraded Ground At Loc. Stake = 5796.7'  
FINISHED GRADE ELEV. AT LOC. STAKE = 5794.5'

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

**QEP ENERGY COMPANY**

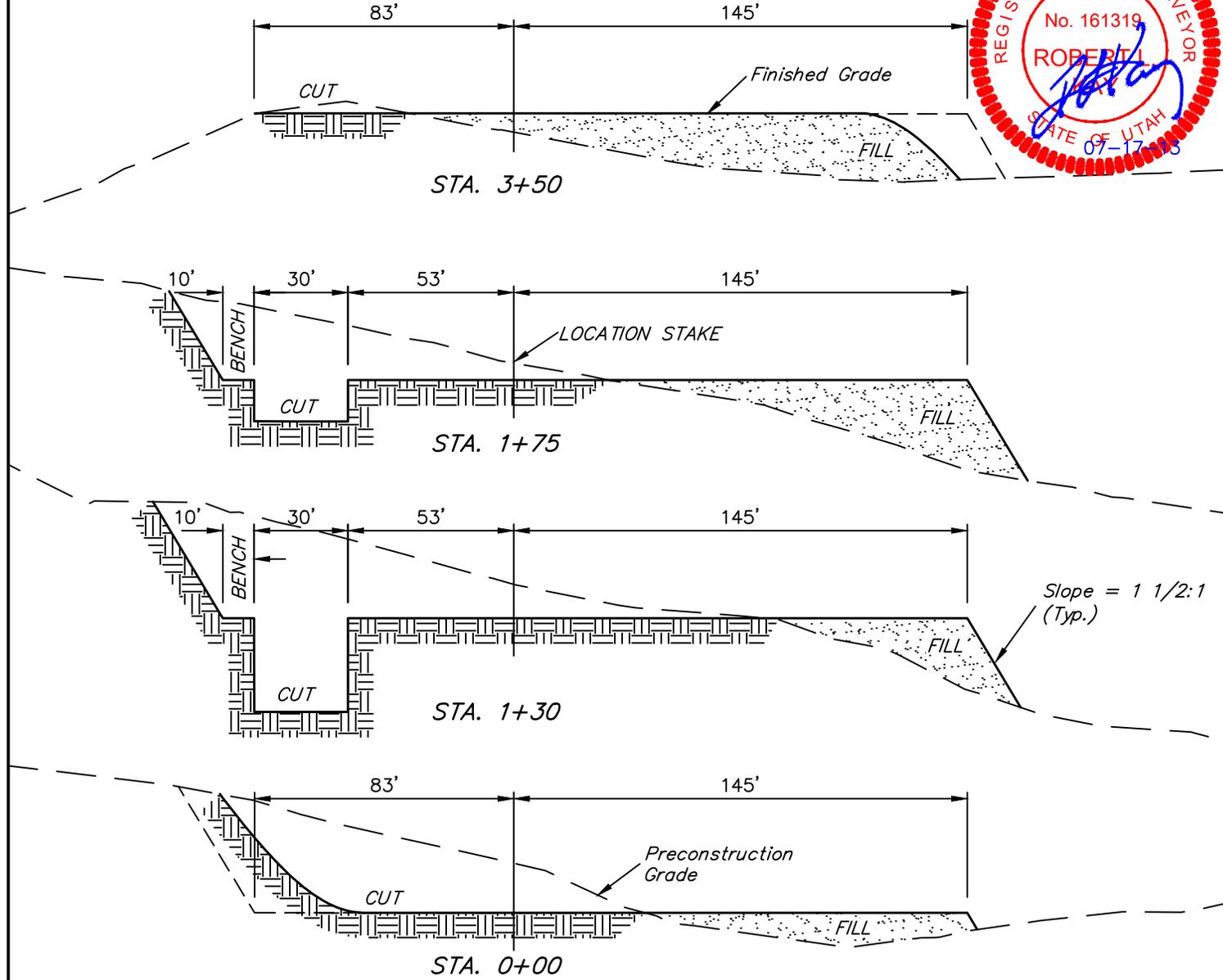
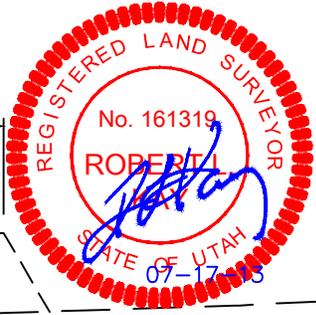
**TYPICAL CROSS SECTIONS FOR**

WR #11G-5-10-17  
SECTION 5, T10S, R17E, S.L.B.&M.  
1500' FSL 2355' FWL

**FIGURE #2**

DATE: 04-30-12  
DRAWN BY: H.K.W.  
REV: 07-16-13

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



**NOTE:**

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

APPROXIMATE ACREAGES

WELL SITE DISTURBANCE = ± 2.430 ACRES  
ACCESS ROAD DISTURBANCE = ± 0.074 ACRES  
PIPELINE DISTURBANCE = ± 0.090 ACRES  
TOTAL = ± 2.594 ACRES

\* NOTE:  
FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

(6") Topsoil Stripping = 1,760 Cu. Yds.  
Remaining Location = 8,440 Cu. Yds.  
TOTAL CUT = 10,200 CU. YDS.  
FILL = 8,850 CU. YDS.

EXCESS MATERIAL = 1,350 Cu. Yds.  
Topsoil & Pit Backfill = 2,170 Cu. Yds.  
(1/2 Pit Vol.)  
EXCESS UNBALANCE = 820 Cu. Yds.  
(After Interim Rehabilitation)

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

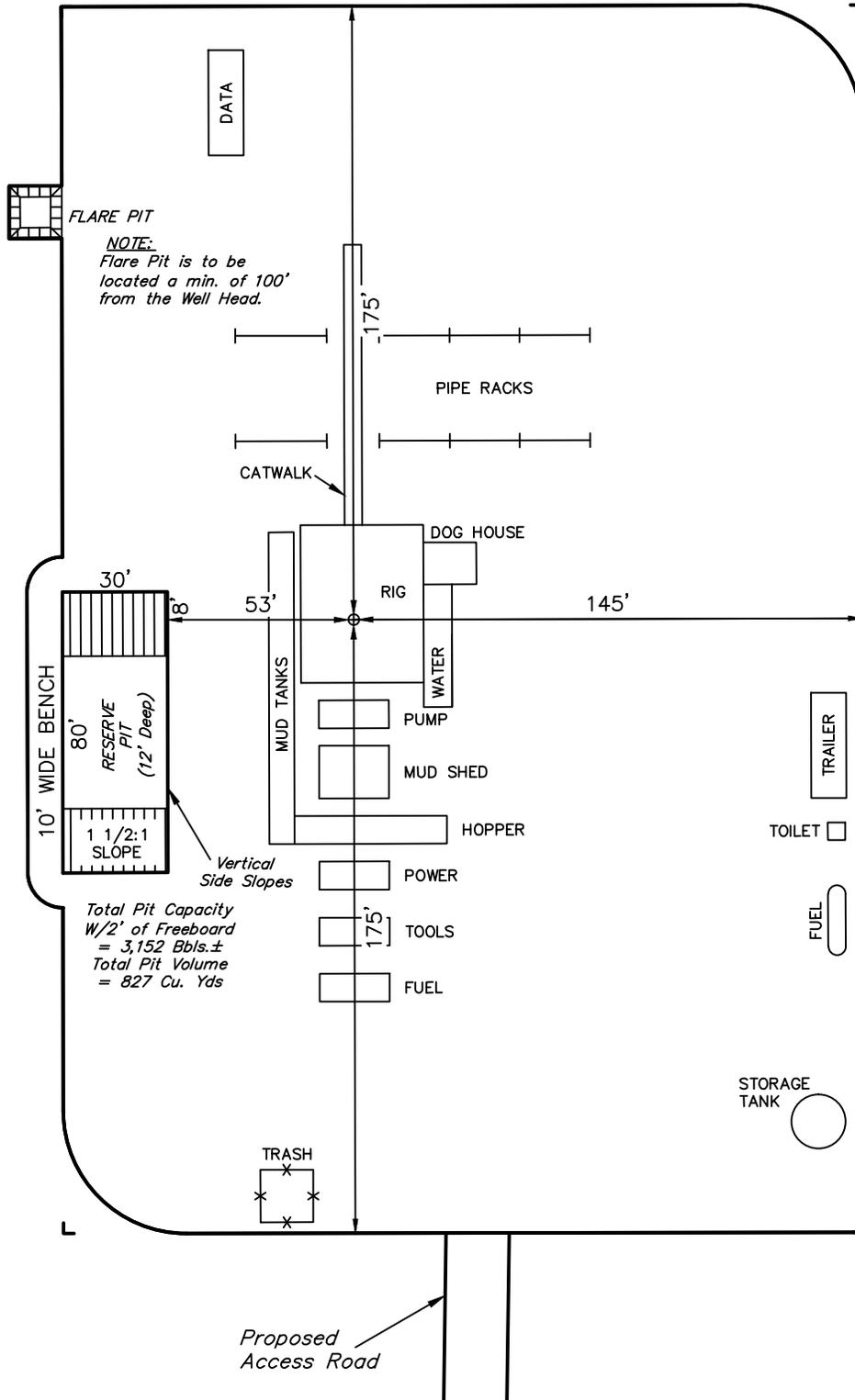
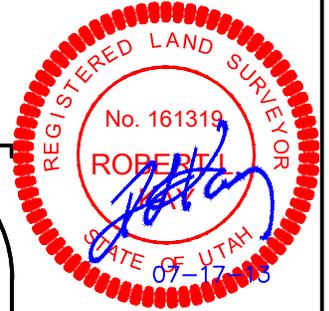
**QEP ENERGY COMPANY**

**TYPICAL RIG LAYOUT FOR**

WR #11G-5-10-17  
SECTION 5, T10S, R17E, S.L.B.&M.  
1500' FSL 2355' FWL

**FIGURE #3**

SCALE: 1" = 50'  
DATE: 04-30-12  
DRAWN BY: H.K.W.  
REV: 07-16-13





**QEP ENERGY COMPANY**

**INTERIM RECLAMATION PLAN**

WR #11G-5-10-17

SECTION 5, T10S, R17E, S.L.B.&M.

1500' FSL 2355' FWL

**FIGURE #4**

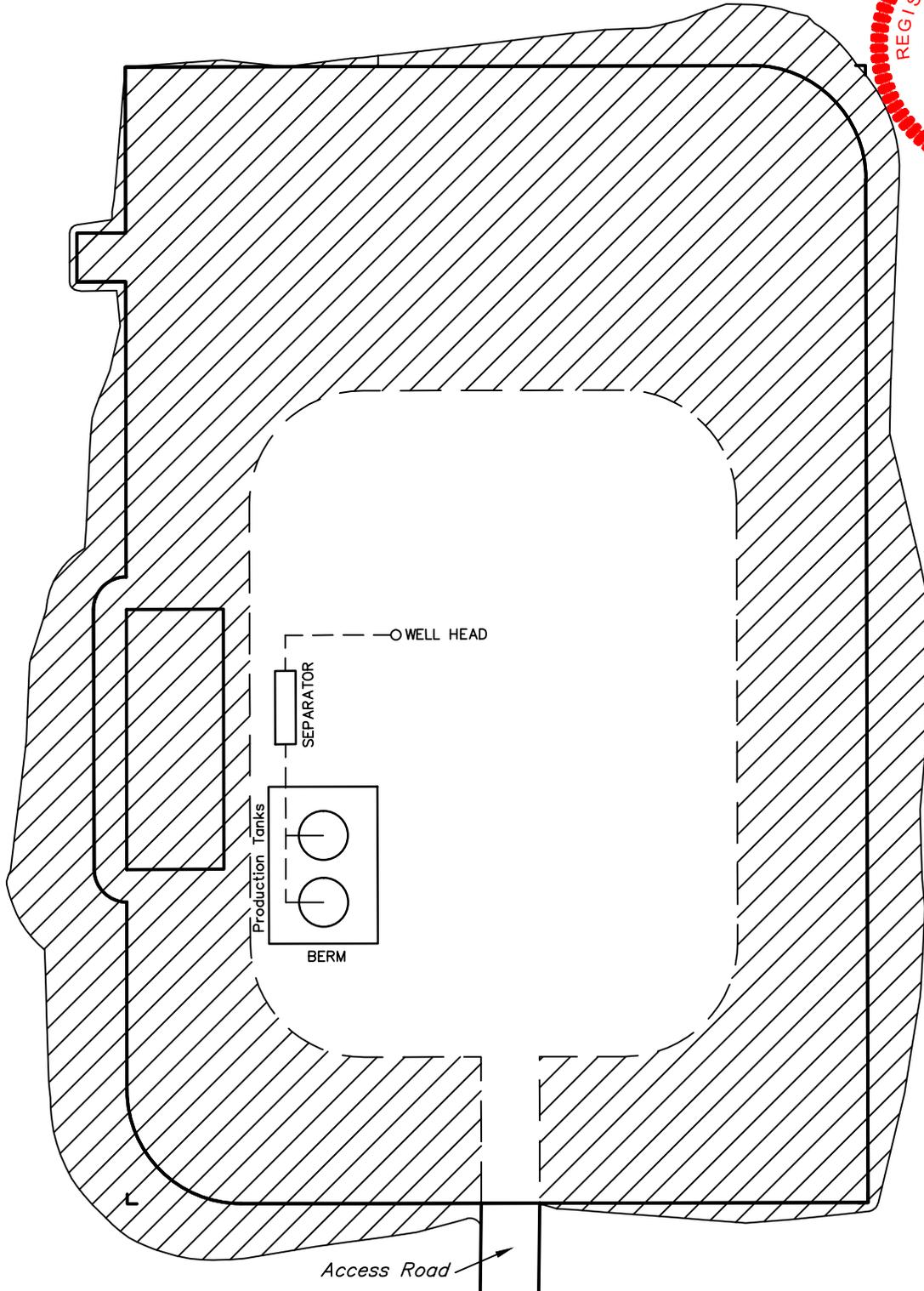
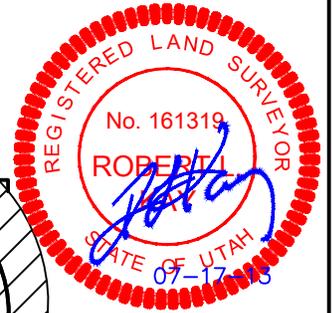
SCALE: 1" = 50'

DATE: 04-30-12

DRAWN BY: H.K.W.

REVISED: 06-13-12

REVISED: 07-16-13



RECLAIMED AREA

**APPROXIMATE ACREAGES**  
UN-RECLAIMED = ± 0.701 ACRES

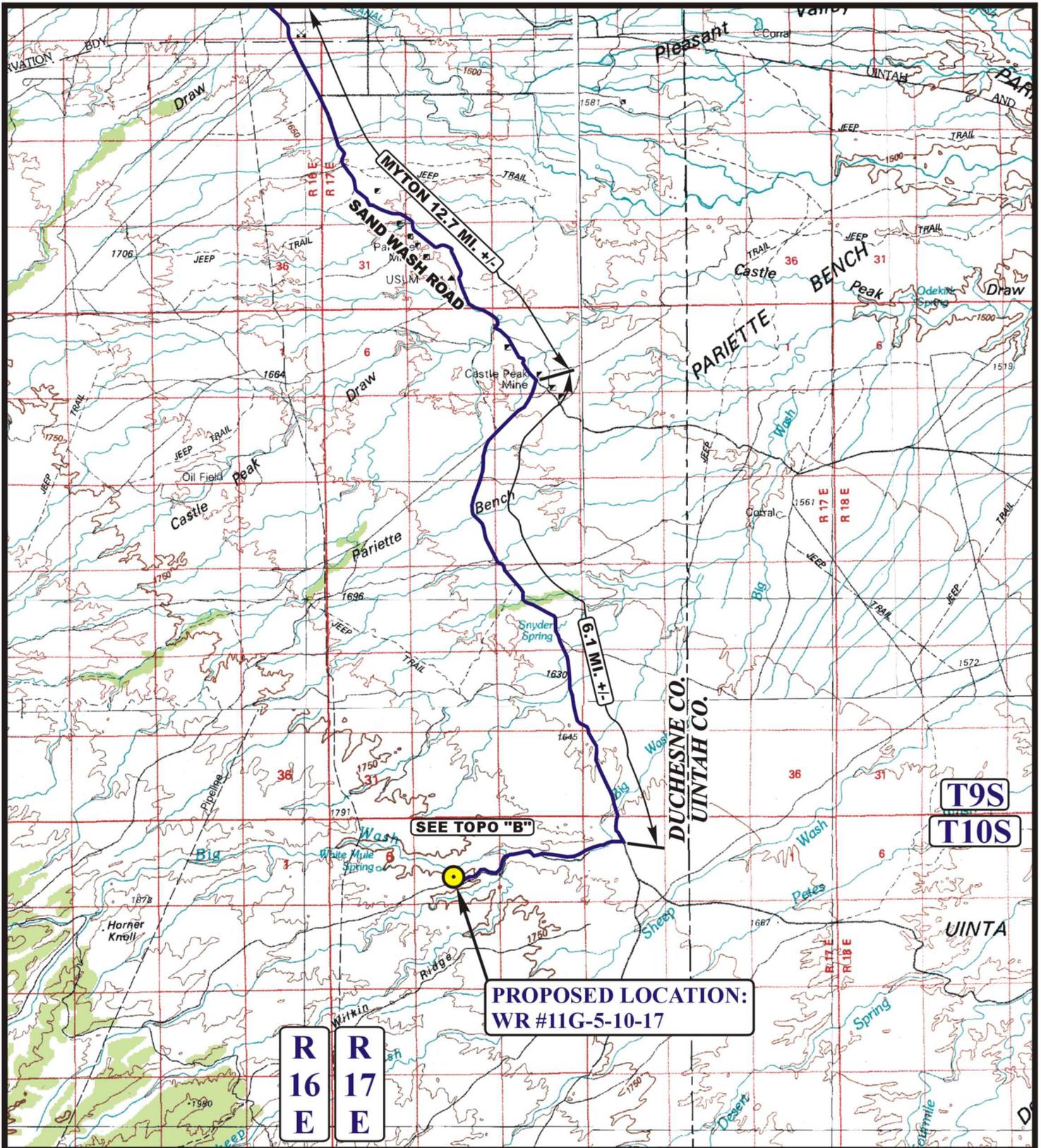
**UINTAH ENGINEERING & LAND SURVEYING**  
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RECEIVED: Jul. 18, 2013

**QEP ENERGY COMPANY**  
**WR #11G-5-10-17**  
**SECTION 5, T10S, R17E, S.L.B.&M.**

PROCEED IN A WESTERLY DIRECTION FROM MYTON, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 1.5 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 11.2 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 6.1 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 2.3 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE NORTH; FOLLOW ROAD FLAGS IN A NORTHERLY DIRECTION APPROXIMATELY 107' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM MYTON, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 21.1 MILES.



**PROPOSED LOCATION:  
WR #11G-5-10-17**

**LEGEND:**

 **PROPOSED LOCATION**

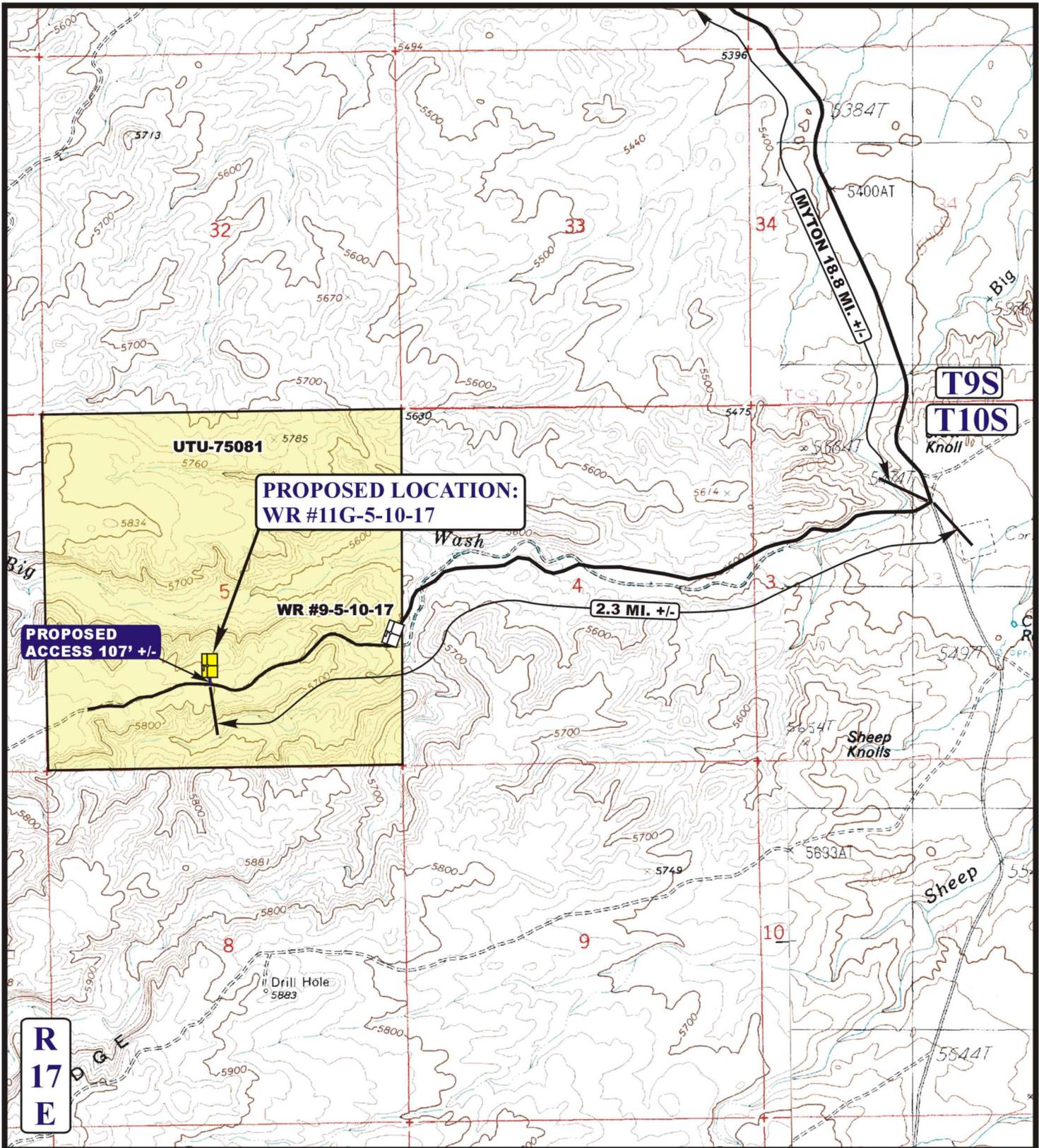


**QEP ENERGY COMPANY**

**WR #11G-5-10-17  
SECTION 5, T10S, R17E, S.L.B.&M.  
1500' FSL 2355' FWL**

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

<b>ACCESS ROAD MAP</b>	<b>05 02 12</b> MONTH DAY YEAR	<b>A TOPO</b>
SCALE: 1:100,000	DRAWN BY: A.T. REVISED: 07-17-13	



**R  
17  
E**

**LEGEND:**

-  EXISTING ROAD
-  PROPOSED ACCESS ROAD



**QEP ENERGY COMPANY**

**WR #11G-5-10-17  
SECTION 5, T10S, R17E, S.L.B.&M.  
1500' FSL 2355' FWL**



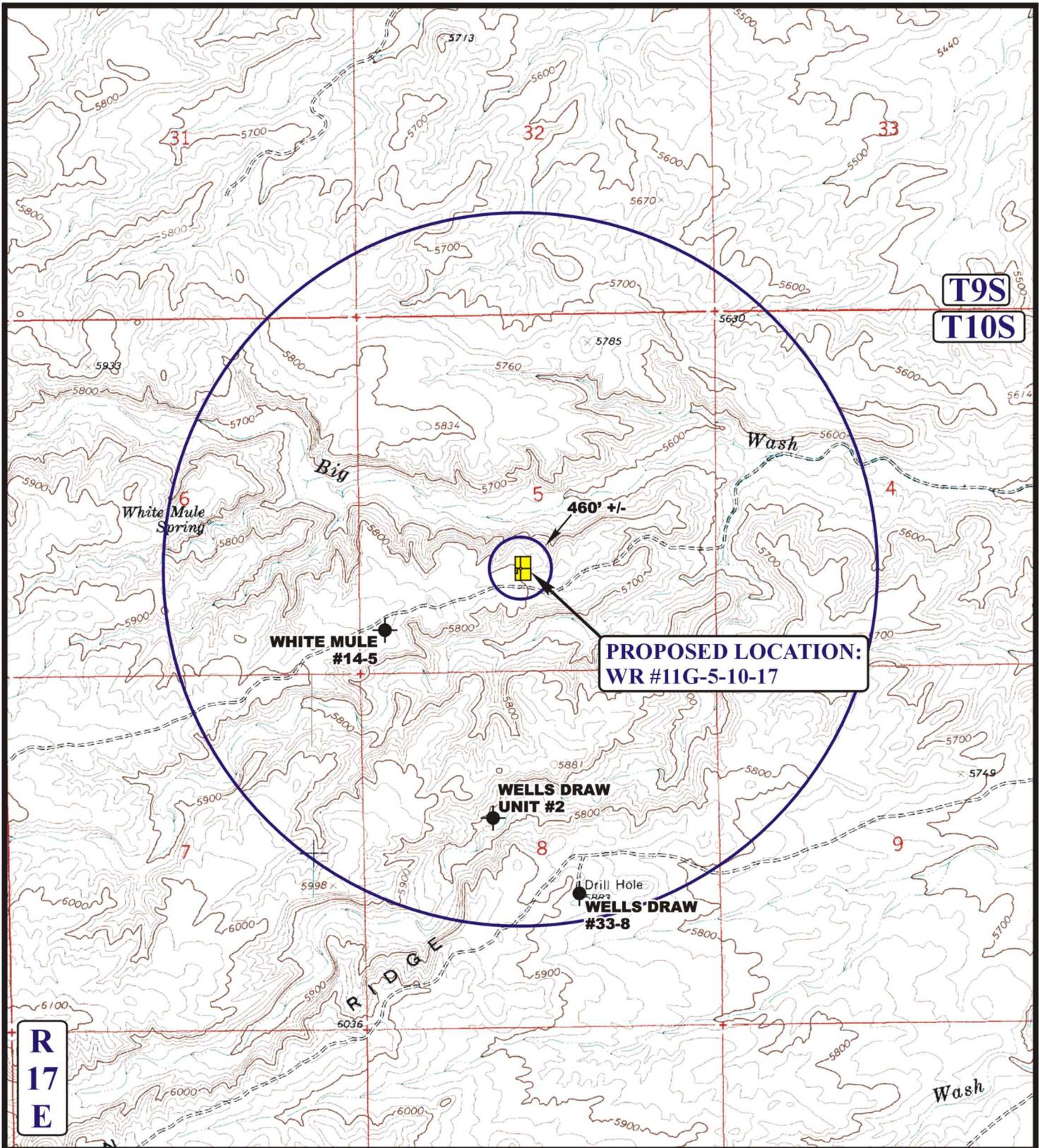
**Uintah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

**ACCESS ROAD  
MAP**

**05 02 12**  
MONTH DAY YEAR

**B  
TOPO**

SCALE: 1" = 2000' DRAWN BY: A.T. REVISED: 07-17-13



**R  
17  
E**

**T9S  
T10S**

**PROPOSED LOCATION:  
WR #11G-5-10-17**

**LEGEND:**

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

**QEP ENERGY COMPANY**

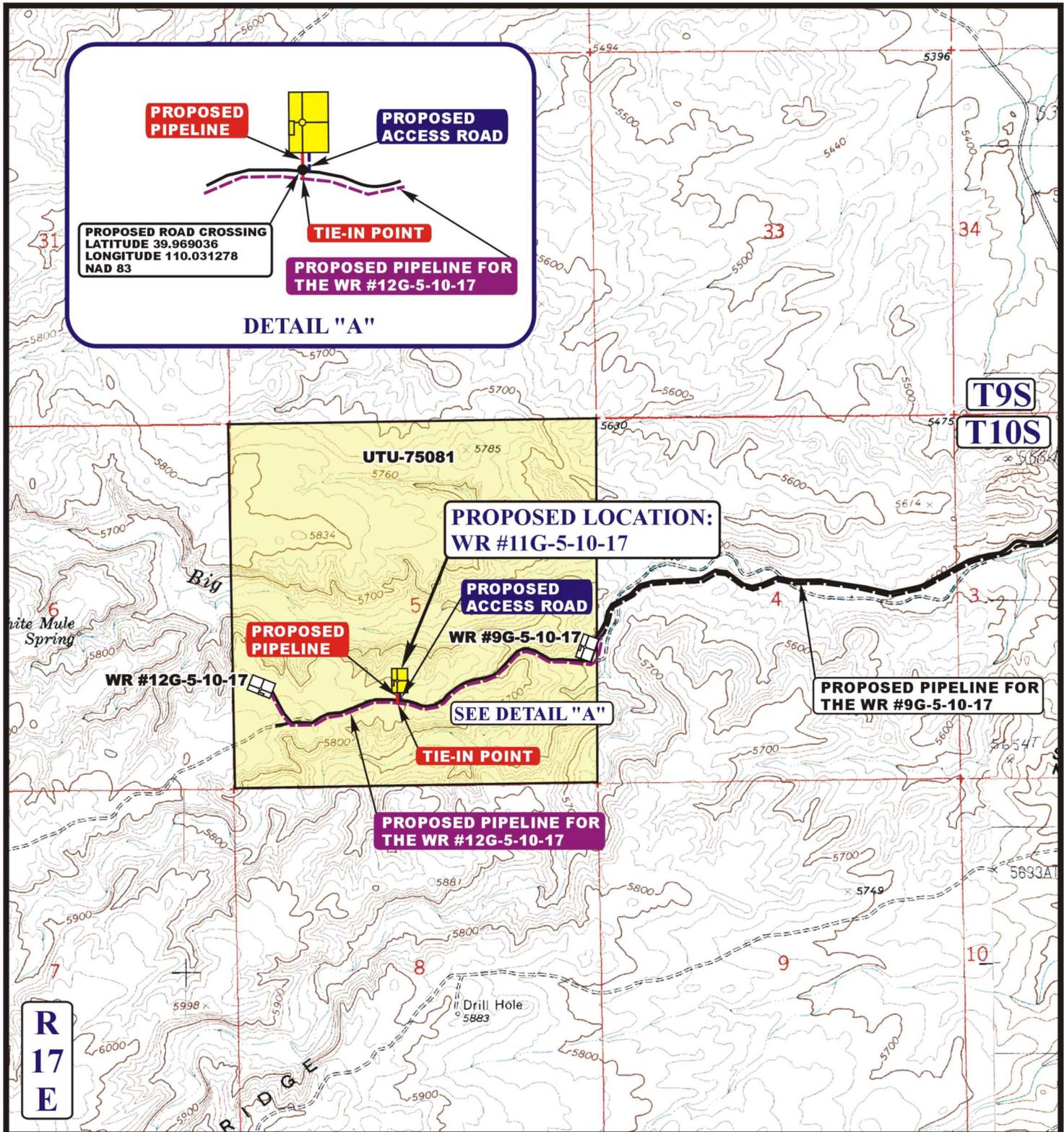
**WR #11G-5-10-17  
SECTION 5, T10S, R17E, S.L.B.&M.  
1500' FSL 2355' FWL**

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



**TOPOGRAPHIC MAP** **05 02 12**  
MONTH DAY YEAR  
SCALE: 1" = 2000' DRAWN BY: A.T. REVISED: 07-17-13





**APPROXIMATE TOTAL PIPELINE DISTANCE = 130' +/-**

**LEGEND:**

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



**QEP ENERGY COMPANY**

**WR #11G-5-10-17**  
**SECTION 5, T10S, R17E, S.L.B.&M.**  
**1500' FSL 2355' FWL**

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

**TOPOGRAPHIC MAP** **05 02 12**  
 MONTH DAY YEAR  
 SCALE: 1" = 2000' DRAWN BY: A.T. REVISED: 07-17-13

**D**  
**TOPO**

**QEP ENERGY COMPANY**  
**REFERENCE MAP: AREA OF VEGETATION**  
**WR #11G-5-10-17**  
**LOCATED IN UINTAH COUNTY, UTAH**  
**SECTION 5, T10S, R17E, S.L.B.&M.**

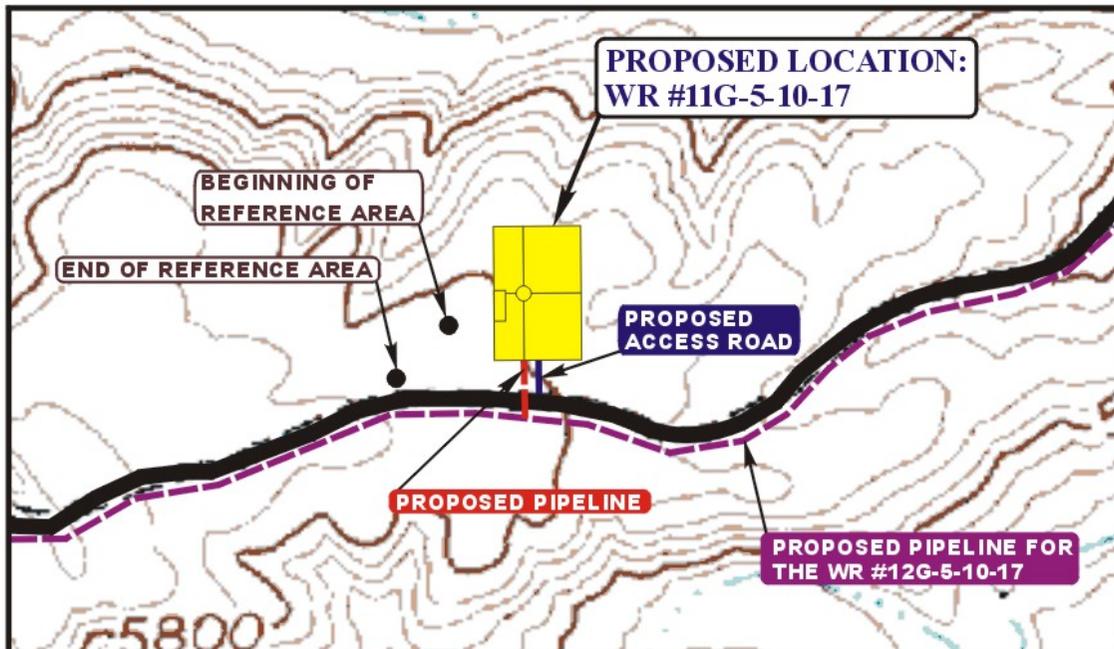


PHOTO: VIEW FROM BEGINNING OF REFERENCE AREA

**NOTE:**

**BEGINNING OF REFERENCE AREA**  
NAD 83 Z12 UTM NORTHING: 14517141.894  
NAD 83 Z12 UTM EASTING: 1911664.958  
(NAD 83) LATITUDE: 39.969617  
(NAD 83) LONGITUDE: -110.031869

**END OF REFERENCE AREA**  
NAD 83 Z12 UTM NORTHING: 14517007.780  
NAD 83 Z12 UTM EASTING: 1911518.522  
(NAD 83) LATITUDE: 39.969253  
(NAD 83) LONGITUDE: -110.032397



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

SCALE: 1" = 500'

06 12 12  
MONTH DAY YEAR

REF.

TAKEN BY: C.R. DRAWN BY: C.I. REVISED: 00-00-00

**RECEIVED**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

JAN 03 2013

APPLICATION FOR PERMIT TO DRILL OR REENTER

**BLM**

1a. Type of Work:  DRILL  REENTER

1b. Type of Well:  Oil Well  Gas Well  Other  Single Zone  Multiple Zone

**CONFIDENTIAL**

2. Name of Operator: QEP ENERGY COMPANY  
Contact: JAN NELSON  
E-Mail: jan.nelson@qepres.com

3a. Address: 11002 EAST 17500 SOUTH  
VERNAL, UT 84078

3b. Phone No. (include area code)  
Ph: 435-781-4331  
Fx: 435-781-4395

4. Location of Well (Report location clearly and in accordance with any State requirements. \*)

At surface: NESW 1500FSL 2350FWL 39.969811 N Lat, 110.031308 W Lon

At proposed prod. zone: SWSW 760FSL 760FWL 39.953214 N Lat, 110.036953 W Lon

14. Distance in miles and direction from nearest town or post office\*: 21 MILES SOUTH OF MYTON, UT

15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any): 1500 +/-

16. No. of Acres in Lease: 2185.00

18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.: 2625 +/-

19. Proposed Depth: 11488 MD  
5181 TVD

21. Elevations (Show whether DF, KB, RT, GL, etc.): 5797 GL

22. Approximate date work will start: 05/01/2013

5. Lease Serial No.: UTU75081

6. If Indian, Allottee or Tribe Name:

7. If Unit or CA Agreement, Name and No.: UTU88573X

8. Lease Name and Well No.: WR 11G-5-10-17

9. API Well No.: 43-013-51913

10. Field and Pool, or Exploratory: WILKIN RIDGE

11. Sec., T., R., M., or Blk. and Survey or Area: Sec 5 T10S R17E Mer SLB

12. County or Parish: DUCHESNE

13. State: UT

17. Spacing Unit dedicated to this well: 40.00

20. BLM/BIA Bond No. on file: ESB000024

23. Estimated duration: 30

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): [Signature]  
Name (Printed/Typed): JAN NELSON Ph: 435-781-4331  
Date: 12/13/2012

Title: PERMIT AGENT

Approved by (Signature): [Signature]  
Name (Printed/Typed): Jerry Kenczka  
Date: JUN 28 2013

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 #163648 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 01/04/2013 ()

**RECEIVED**

JUL 25 2013

DIV. OF OIL, GAS & MINING

NOTICE OF APPROVAL

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*

*[Handwritten mark]*

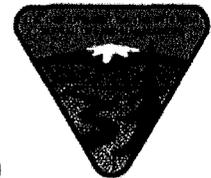


UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE

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: WR 11G-5-10-17  
API No: 43-013-51913

Location: NESW, Sec. 5, T10S, R17E  
Lease No: UTU-75081  
Agreement: Scylla

**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)***

- 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.
- QEP Energy Company's proposal to drill 6 oil wells: WR 1G-3-10-17, WR 2G-3-10-17, WR 2G-10-10-17, WR 3G-9-10-17, WR 3G-17-10-17, and WR 11G-5-10-17, in Sections 3, 5, 8, 9, 10, and 17, Township 10 South, Range 17 East, Duchesne County, Utah.
- The construction of the wells and access roads will result in approximately 16.29 acres of new surface disturbance.
- 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 will be utilized as feasible for production operations.
- During completion, no venting will occur, and flaring will be limited as much as possible. Production equipment and gathering lines will be installed as soon as possible.
- When feasible, two or more rigs (including drilling and completion rigs) will not be run simultaneously within 200 meters of each other. If two or more rigs must be run simultaneously within 200 meters of each other, then effective public health buffer zones out to 200 meters (m) from the nearest emission source will be implemented. Examples of an effective public health protection buffer zone include the demarcation of a public access exclusion zone by signage at intervals of every 250 feet that is visible from a distance of 125 feet during daylight hours, and a physical buffer such as active surveillance to ensure the property is not accessible by the public during drilling operations. Alternatively, the proponent may demonstrate compliance with the 1-hour NO<sub>2</sub> National Ambient Air Quality Standards (NAAQS) with appropriate and accepted near-field modeling. As part of this demonstration, the proponent may propose alternative mitigation that could include but is not limited to natural gas-fired drill rigs, installation of NO<sub>x</sub> controls, time/use restrictions, and/or drill rig spacing.

- 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 grams of NOx per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower-hour.
- All new and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 grams of NOx per horsepower-hour.
- Green completions will be used for all well completion activities where technically feasible.
- Enhanced VOC emission controls with 95% control efficiency will be employed on production equipment having a potential to emit greater than 5 tons per year.
- A paleontological survey was conducted on all areas where surface disturbance will occur Table 2-1 indicates where and when a paleontologist will be required to monitor surface disturbing activity.

**Table 2-1 Paleontological Resources Survey Results.**

Well Name	BLM Authorized Permitted Paleontologist Will Monitor the Access Road.	BLM Authorized Permitted Paleontologist Will Monitor the Pipe Line.	BLM Authorized Permitted Paleontologist Will Monitor the Well Pad.
WR 1G-3-10-17	No	No	No
WR 2G-3-10-17	Yes	Yes	Yes
WR 2G-10-10-17	No	No	No
WR 3G-9-10-17	No	No	No
WR 3G-17-10-17	No	No	No
WR 11G-5-10-17	Yes	Yes	Yes

Yes indicates that QEP will provide a BLM Authorized Permitted Paleontologist to monitor the construction process for the access road, pipe line, or well pad.

- QEP has agreed not to construct or drill during the following dates, unless otherwise approved by the BLM authorized officer.

**Table 2-2 Raptor nesting timing restriction**

Well Name	Burrowing Owl March 1 to August 31	Sage Grouse March 1 to June 15	Golden Eagle January 1 to August 31
WR 1G-3-10-17	No	No	No
WR 2G-3-10-17	Yes	No	Yes
WR 2G-10-10-17	No	No	No

Well Name	Burrowing Owl March 1 to August 31	Sage Grouse March 1 to June 15	Golden Eagle January 1 to August 31
WR 3G-9-10-17	No	Yes	No
WR 3G-17-10-17	No	Yes	Yes
WR 11G-5-10-17	No	No	No

Yes indicates that drilling or construction will not commence during this time period unless approved by the BLM authorized officer.

- All vehicles and equipment will 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.
- 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
- The reserve pit will be fenced on three sides prior to drilling activity and closed off on the fourth side after drilling is finished. The reserve pits for the wells will be lined with a 16 ml liner with felt.
- A dike will be constructed around those production facilities that contain fluids. The dikes will be constructed of compacted subsoil. They will be impervious, hold 10 percent more than the capacity of the largest tank, and be independent of the back cut.
- All permanent (meaning on site for six months or longer) structures will be painted Covert Green to match the surrounding landscape color unless otherwise authorized. This will include all facilities except those required to comply with Occupational Safety and Health Act (OSHA) regulations.

- If dry, the wells will be plugged and abandoned as per BLM and State of Utah requirements.
- Prior to construction, an invasive plants/noxious weeds inventory will be completed for all areas where surface disturbance will occur. A completed Weed Inventory form documenting any occurrences of invasive plants or noxious weeds will be submitted to the BLM Authorized Officer before surface disturbance will occur.
- The operator will control noxious/invasive weeds along their roads, pipelines, well sites, or other applicable facilities by the application of herbicides or by mechanical removal until reclamation is considered to be successful by the authorized officer (AO) and the bond for the well is released. A list of noxious weeds will be obtained from the BLM or the appropriate county extension office. On BLM-administered land, the operator will submit a Pesticide Use Proposal and obtain approval prior to the application of herbicides, other pesticides, or possible hazardous chemicals.
- Immediately upon well completion, the location and surrounding area shall be cleared of all unused tubing, equipment, debris, materials, and trash. Any hydrocarbons in the pit will be removed in accordance with 43 CFR 3162.7-1.
- The reserve pit and the portion of the well not needed for production facilities/operations shall be re-contoured to the approximate natural contours. The reserve pit will be reclaimed within 120 days from the date of well completion, or as soon as environmental conditions allow. The stockpiled pit topsoil will then be spread over the pit area and broadcast-seeded/drill seeded (preferred method) with a seed mix submitted to the BLM Authorized Officer (AO) for approval prior to seeding. Seeding will be done in the fall prior to winter freezing of the soil. The seed mixture shall be worked into the topsoil with a drill seeder, bulldozer or other heavy equipment. If initial seeding is not successful, reseeding may be required.
- Once the well is plugged and facilities are removed and abandoned, the topsoil shall be stripped and stockpiled off of the location, and the well site, pipelines, and access roads will be returned to natural contours. The topsoil shall be re-spread, and the location seeded with the mixture submitted to the BLM AO. The seed mixture shall be worked into the topsoil with a drill seeder, bulldozer or other heavy equipment.
- Interim reclamation, final reclamation, and monitoring of reclaimed areas will be completed in accordance with the QEP Energy Company, Uinta Basin Division's Reclamation Plan, September 2009 on file with the Vernal Field Office of the BLM.
- Prior to any surface disturbance, vegetative monitoring locations and reference sites will be identified by QEP and approved by the BLM AO. Vegetation monitoring protocol will be developed by QEP and approved by the BLM AO prior to implementation of re-vegetation techniques and will be designed to monitor % basal vegetative cover.
- Re-vegetated areas will be inspected annually and monitored to document location and extent of areas with successful re-vegetation, and areas needing further reclamation (for a period of 5 years after construction completion). A reclamation report will be submitted to the AO by March 31 of each year.

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

**SITE SPECIFIC DOWNHOLE COAs:**

- A formation integrity test shall be performed at the surface casing shoe.
- Gamma Ray Log shall be run from Total Depth to surface.
- Surface Casing shall be cemented to surface.

Variances Granted

Air Drilling

1. Dust suppression equipment. Variance granted for water mist system to substitute for the dust suppression equipment.
2. Blooie line discharge 100' from the well bore, variance granted for blooie line discharge to be 50-70' from the well bore.
3. Compressors located in the opposite direction from the blooie line a minimum of 100' from the well bore. Variance granted for air compressor to be 50' from well bore.
4. Straight run blooie line. Variance granted for targeted "T's" at bends.
5. Automatic igniter. Variance granted for igniter due to water mist.

**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 CD (compact disc) format to the Vernal BLM Field Office. 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> UTU75081
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>1. TYPE OF WELL</b> Oil Well		<b>7. UNIT or CA AGREEMENT NAME:</b> SCYLLA (GR)
<b>2. NAME OF OPERATOR:</b> QEP ENERGY COMPANY		<b>8. WELL NAME and NUMBER:</b> WR 11G-5-10-17
<b>3. ADDRESS OF OPERATOR:</b> 11002 East 17500 South , Vernal, Ut, 84078		<b>9. API NUMBER:</b> 43013519130000
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1500 FSL 2355 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NESW Section: 05 Township: 10.0S Range: 17.0E Meridian: S		<b>9. FIELD and POOL or WILDCAT:</b> EIGHT MILE FLAT
		<b>COUNTY:</b> DUCHESNE
		<b>STATE:</b> UTAH

11.

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 9/6/2013	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT 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 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"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input type="text"/>

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

THIS WELL COMMENCED PRODUCTION ON SEPTEMBER 6, 2013 @ 4:30 P.M.

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY  
September 09, 2013**

<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> 9/9/2013	

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

**BHL 947' FSL**

AMENDED REPORT  FORM 8  
(highlight changes)

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

1a. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER _____		7. UNIT or CA AGREEMENT NAME <b>SCYLLA (GR)</b>	
b. TYPE OF WORK: NEW WELL <input checked="" type="checkbox"/> HORIZ. LATS. <input type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER _____		8. WELL NAME and NUMBER: <b>WR 11G-5-10-17</b>	
2. NAME OF OPERATOR: <b>QEP ENERGY COMPANY</b>		9. API NUMBER: <b>4301351913</b>	
3. ADDRESS OF OPERATOR: <b>11002 E. 17500 S. CITY VERNAL STATE UT ZIP 84078</b>		10 FIELD AND POOL, OR WILDCAT <b>WILKIN RIDGE</b>	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: <b>SECTION 5, NESW, 1500' FSL, 2355' FWL</b>  AT TOP PRODUCING INTERVAL REPORTED BELOW: <b>SECTION 5, NESW, 1500' FSL, 2355' FWL</b>  AT TOTAL DEPTH: <b>SECTION 8, SWSW, 915' FSL, 344' FWL</b>		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NESW 5 10S 17E</b>	
		12. COUNTY <b>DUCHESNE</b>	13. STATE <b>UTAH</b>

14. DATE SPUNDED: <b>7/24/2013</b>	15. DATE T.D. REACHED: <b>8/16/2013</b>	16. DATE COMPLETED: <b>9/6/2013</b>	ABANDONED <input type="checkbox"/> READY TO PRODUCE <input checked="" type="checkbox"/>	17. ELEVATIONS (DF, RKB, RT, GL): <b>5797' GL</b>
18. TOTAL DEPTH: MD <b>11,420</b> TVD <b>5,195</b>	19. PLUG BACK T.D.: MD _____ TVD _____	20. IF MULTIPLE COMPLETIONS, HOW MANY? *		21. DEPTH BRIDGE MD _____ PLUG SET: TVD _____
22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) <b>TRIPLE COMBO, CBL</b>			23. WAS WELL CORED? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> (Submit copy)	

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

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
12.25	9.625 J-55	36	0	468		265	54	185	
8.75	7 N-80	26	0	5,029		585	235		
6.5	4.5 N-80	11.6	4,889	11,320		0			

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2.875	4,808							

26. PRODUCING INTERVALS					27. PERFORATION RECORD			
FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) GREEN RIVER	4,889	11,320			<i>*see block 35</i>			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
4,889 - 11,320	65 BBLs PARAFIN SOLVENT

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

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 9/6/2013	TEST DATE: 9/8/2013	HOURS TESTED: 24	TEST PRODUCTION RATES: →	OIL - BBL: 348	GAS - MCF: 25	WATER - BBL: 43	PROD. METHOD: GPU
CHOKE SIZE:	TBG. PRESS. 56	CSG. PRESS. 27	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

INTERVAL B (As shown in item #26)

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

INTERVAL C (As shown in item #26)

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

INTERVAL D (As shown in item #26)

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

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

USED ON LEASE

33. SUMMARY OF POROUS ZONES (Include Aquifers):

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

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				UINTA	0
				GREEN RIVER	1,632
				GARDEN GULCH	3,068
				UTELAND BUTTE	5,298
				C1 LIME	5,687

35. ADDITIONAL REMARKS (Include plugging procedure)

#27. HOLE IS OPEN TO PRODUCTION FROM BASE OF 7" CASING (5029') TO TD.

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 9/30/2013

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: WR 11G-5-10-17

API 43-013-51913	Surface Legal Location S5-T10S-R17E	Field Name EIGHT MILE FLAT	County DUCHESNE	State UTAH	Well Configuration Type Horizontal
Unique Well ID UT08768016	Ground Elevation (ft) 5,794.5	Casing Flange Elevation (ft) 5,794.50	Current KB to GL (ft) 22.80	KB to CF (ft) 22.80	Spud Date 7/24/2013 08:00
Job Category DRILLING	Primary Job Type DRILLING	Secondary Job Type DEVELOPMENT	Objective		
Start Date 7/23/2013	Job End Date 8/20/2013				

Purpose  
Summary

Contractor Pete Martin Drilling	RIG PETE MARTIN 1	Rig Type BUCKET RIG
Contractor Pro Petro	RIG PRO PETRO 8	Rig Type AIR RIG
Contractor SST	RIG SST 54	Rig Type TOP DRIVE

DOL	Start Date	Summary
1	7/23/2013	PRE SPUD COSTS
2	7/24/2013	DRILL CONDUCTOR TO 50 FT
3	7/25/2013	DRILL CONDUCTOR, SET AND CEMENT
4	7/26/2013	DRILL 40 FT OF MOUSEHOLE
5	7/27/2013	DRILL AND SET 468 FT OF SURFACE
6	7/28/2013	LAY OVER DERRICK, RIG DOWN TOPDRIVE, GENERAL RIG DOWN
7	7/29/2013	MOVE WITH WESTROC TRUCKING
8	7/30/2013	MOVE AND RIG UP WITH WESTROC TRUCKING, WAIT ON DAYLIGHT
9	7/31/2013	WORK ON DERRICK AND MUD TANKS, PUT DERRICK ON FLOOR, RAISE A-LEGS AND DERRICK. RAISE TOP DRIVE. SET GAS BUSTER AND SHALE PIT, SET IN FRONT YARD. GENERAL RIG UP.
10	8/1/2013	TEST BOPE. SET WEAR BUSHING. STRAP, CALIPER, SCRIBE & P/U BHA. DRILL SHOE TRACK T/ 500. FIT TO 10# EMW. RIG REPAIR. DIRECTIONAL DRILL F/500 T/ 1482.
11	8/2/2013	DIRECTIONAL DRILL, RIG SERVICE, RIG REPAIR, SURVEYS AND CONNECTIONS
12	8/3/2013	DIRECTIONAL DRILL, RIG SERVICE, CIRC, WIPER TRIP.
13	8/4/2013	TRIP, LOG, CIRCULATE, LDDP, RIG UP AND RUN CASING, CEMENT.
14	8/5/2013	RIG DOWN CEMENTERS, PJSM WITH CAMERON, PACK OFF MANDREL AND TEST. PJSM.RIG UP,STRAP BHA & PICK UP SAME, PICK UP 3.5" DRILL STRING. DRILL SHOE TRACK. FIT. DIRECTIONAL DRILL.
15	8/6/2013	DIRECTIONAL DRILL. LAND IN ZONE. TOH. CHANGE BHA. TIH. WASH 163 FT. DIRECTIONAL DRILL.
16	8/7/2013	DIRECTIONAL DRILL 6282 FT PULL BACK TO 5900 TROUGH HOLE FOR 2 HR'S TIME DRILL FOR SIDE TRACK #1
17	8/8/2013	TIME DRILL FROM 5933 FT TO 5991 FT DIRECTIONAL DRILL FROM 5991 TO 6536FT CONNECTIONS & SURVEYS & RIG SERVICE SHORT TRIP FROM 6513 TO 6038 DIRECTIONAL DRILL FROM 6513 TO 6536 FT MWD FAILED TRIP OUT OF THE HOLE
18	8/9/2013	CHANGE OUT BIT, MOTOR & MOVE PUSH PIPE TRIP IN THE HOLE TO THE SHOE CUT DRILLING LINE WASH & REAM TO BOTTOM, DIRECTIONAL DRILL SURVEYS & CONNECTIONS TROUBLE SHOOT MWD TOOLS
19	8/10/2013	DIRECTIONAL DRILLING F/ 7177 TO 8601 SHORT TRIP @ 8031 TO 7180 CONNECTIONS & SURVEYS
20	8/11/2013	DIRECTIONAL DRILL FROM8601 TO 9004 FT WENT OUT OF ZONE @ 8622 FEET TRIED TO REENTER ZONE TO 9004 FT TROUGH HOLE FROM 8984 FT TO 9004 FT TRIP OUT FOR BIT MOTOR,PUSH PIPE & HWDP & PLAN TO SIDETRACK WELL AT 8540 FEET TRIP IN WITH NEW BHA ASSEMBLY
21	8/12/2013	PICK UP HWDP & WORK BHA, TRIP IN THE HOLE TO 7740 WASH & REAM FROM 7740 TO 8540 FEET TROUGH HOLE FROM 8520 TO 8540 FT TIME DRILL FROM 8540 TO 8557 FT
22	8/13/2013	TIME DRILL F/ 8557 TO 8619 DIRECTIONAL DRILL FROM 8619 TO 8667 CIRC & TROUBLE SHOOT MWD POOH FOR TOOL FAILURE PICK UP NEW BIT,MOTOR & GAP SUB TIH ORINATE 1ST SIDETRACK WASH & REAM F/ 8370 TO 8450 FT ORINATE 2ND SIDETRACK DIRECTIONAL DRILL FRO 8667 FT TO 8828 FT =161 FT= 53.6 FPR BIT WT= 15/17 GPM= 250 ROT= 197
23	8/14/2013	DIRECTIONAL DRILL FROM 8828 TO 9429 FT=601 FT =70 FPR BIT WT= 15/17 250 GPM =200RPM SHORT TRIP FROM 9429 TO 8764 FT RIG SERVICE CONT TO DIRECTIONAL FROM 9429 FT TO 9785 FT=356 FT =32 FPR BIT WT=15/17K 250 GPM MOTOR RPM 157
24	8/15/2013	DIRECTIONAL DRILL FROM 9785 10158 SHORT TRIP FROM 10158 TO 9429 DIRECTIONAL DRILL 10158 TO 10757 SHORT TRIP FROM 10757 TO 10283 FT CONT TO DIRECTIONAL DRILL FROM 10757 FT TO 10820 FT
25	8/16/2013	DIRECTIONAL DRILL FROM 10820 TO 11420 T.D. RIG SERVICE CONNECTIONS & SURVEYS CIRC BOTTOMS UP SHORT TRIP TO THE SHOE ( 5029 FT) CUT DRILLING LINE CHANGE OUT SAVER SUB, REAM F/5029 T/6000
26	8/17/2013	REAM FROM 6000 FT TO 11420 FT @ 300 + - FPR CIRC BOTTOMS UP PUMP & SPOT LUB BEAD PILL SHORT TRIP TO THE SHOE TRIP IN THE HOLE TO 9903 FT REAM FROM 9903 FT TO 10757 FT



QEP Energy Company

Daily Activity and Cost Summary

Well Name: WR 11G-5-10-17

API 43-013-51913	Surface Legal Location S5-T10S-R17E	Field Name EIGHT MILE FLAT	County DUCHESNE	State UTAH	Well Configuration Type Horizontal
Unique Well ID UT08768016	Ground Elevation (ft) 5,794.5	Casing Flange Elevation (ft) 5,794.50	Current KB to GL (ft) 22.80	KB to CF (ft) 22.80	Spud Date 7/24/2013 08:00
					Final Drig Rig Release 8/20/2013 06:00

DOL	Start Date	Summary
27	8/18/2013	REAM FROM 10757 TO 11420 CIRC & COND MUD SHORT TRIP TO 5690 TIH TO 10140 REAM FROM 10140 TO 11420 FT CIRC & SPOT LUB & BEAD PILL POOH FOR PRODUCTION LINNER LAY DOWN DIRECTIONAL TOOLS PICK UP 30 4 3/4" DRILL COLLARS PJSJ RIG UP LAY DOWN TRUCK & CASING CREWS
28	8/19/2013	PICK UP AND RUN CASING R/D CASING CREWS TIH WITH LINNER RELEASE LINNER SHOE @ 11320 LINER TOP@ 4889 FT DISPLACE HOLE WITH KCL WATER LAY DOWN DRILL PIPE RIG UP AND SET HALLIBURTON BRIDGE PLUG @ 4619 FT



## **QEP Energy Services**

**Wilkin Ridge**

**WR 11G5-10-17**

**WR 11G-5-10-17**

**WR 11G-5-10-17**

**Survey: WR 11G-5-10-17 Original Hole**

## **Standard Survey Report**

**16 September, 2013**



Survey Report

<b>Company:</b>	QEP Energy Services	<b>Local Co-ordinate Reference:</b>	Well WR 11G-5-10-17
<b>Project:</b>	Wilkin Ridge	<b>TVD Reference:</b>	RKB @ 5817.30usft (SST 54)
<b>Site:</b>	WR 11G5-10-17	<b>MD Reference:</b>	RKB @ 5817.30usft (SST 54)
<b>Well:</b>	WR 11G-5-10-17	<b>North Reference:</b>	True
<b>Wellbore:</b>	WR 11G-5-10-17	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	WR 11G-5-10-17	<b>Database:</b>	Compass DB

<b>Project</b>	Wilkin Ridge		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Utah Central Zone		Using geodetic scale factor

<b>Site</b>	WR 11G5-10-17				
<b>Site Position:</b>		<b>Northing:</b>	7,161,106.664 usft	<b>Latitude:</b>	39.969811
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,052,011.976 usft	<b>Longitude:</b>	-110.031308
<b>Position Uncertainty:</b>	0.00 usft	<b>Slot Radius:</b>	13-3/16 "	<b>Grid Convergence:</b>	0.94 °

<b>Well</b>	WR 11G-5-10-17					
<b>Well Position</b>	<b>+N/-S</b>	0.00 usft	<b>Northing:</b>	7,161,106.950 usft	<b>Latitude:</b>	39.969812
	<b>+E/-W</b>	0.00 usft	<b>Easting:</b>	2,052,016.750 usft	<b>Longitude:</b>	-110.031291
<b>Position Uncertainty</b>		0.00 usft	<b>Wellhead Elevation:</b>	5,794.50 usft	<b>Ground Level:</b>	5,794.50 usft

<b>Wellbore</b>	WR 11G-5-10-17				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	7/18/2013	11.02	65.69	52,025

<b>Design</b>	WR 11G-5-10-17				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>	
	0.00	0.00	0.00	195.36	

<b>Survey Program</b>	<b>Date</b>	9/4/2013			
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
22.80	5,870.00	WR 11G-5-10-17 Original Hole (WR 11G-5	NN MWD	MWD - Standard	
5,901.00	8,495.00	WR 11G-5-10-17 ST1 (WR 11G-5-10-17)	NN MWD	MWD - Standard	
8,563.00	11,379.00	WR 11G-5-10-17 ST2 (WR 11G-5-10-17)	NN MWD	MWD - Standard	

<b>Survey</b>										
<b>Measured Depth (usft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Vertical Section (usft)</b>	<b>Dogleg Rate (°/100usft)</b>	<b>Build Rate (°/100usft)</b>	<b>Turn Rate (°/100usft)</b>	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22.80	0.00	0.00	22.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>RKB Air Gap</b>										
508.00	0.84	303.52	507.98	1.96	-2.97	-1.11	0.17	0.17	0.00	0.00
599.00	0.79	300.09	598.97	2.65	-4.06	-1.48	0.08	-0.05	-3.77	
689.00	0.74	314.41	688.97	3.36	-5.02	-1.92	0.22	-0.06	15.91	
873.00	0.96	314.59	872.95	5.28	-6.96	-3.25	0.12	0.12	0.10	
1,059.00	2.46	31.23	1,058.87	9.79	-6.00	-7.85	1.30	0.81	41.20	
1,250.00	1.71	28.42	1,249.75	15.80	-2.52	-14.57	0.40	-0.39	-1.47	



Survey Report

<b>Company:</b>	QEP Energy Services	<b>Local Co-ordinate Reference:</b>	Well WR 11G-5-10-17
<b>Project:</b>	Wilkin Ridge	<b>TVD Reference:</b>	RKB @ 5817.30usft (SST 54)
<b>Site:</b>	WR 11G5-10-17	<b>MD Reference:</b>	RKB @ 5817.30usft (SST 54)
<b>Well:</b>	WR 11G-5-10-17	<b>North Reference:</b>	True
<b>Wellbore:</b>	WR 11G-5-10-17	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	WR 11G-5-10-17	<b>Database:</b>	Compass DB

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,440.00	1.36	13.56	1,439.68	20.48	-0.64	-19.58	0.28	-0.18	-7.82
1,629.00	1.05	325.22	1,628.64	24.09	-1.10	-22.93	0.54	-0.16	-25.58
1,820.00	1.27	47.05	1,819.61	26.97	-0.55	-25.86	0.80	0.12	42.84
2,010.00	1.18	323.60	2,009.58	29.97	-0.17	-28.86	0.86	-0.05	-43.92
2,200.00	2.02	318.02	2,199.51	34.04	-3.57	-31.88	0.45	0.44	-2.94
2,389.00	2.02	318.52	2,388.39	39.01	-8.01	-35.50	0.01	0.00	0.26
2,579.00	1.93	15.94	2,578.29	44.60	-9.35	-40.53	1.00	-0.05	30.22
2,770.00	1.58	5.48	2,769.20	50.31	-8.21	-46.34	0.25	-0.18	-5.48
2,961.00	1.05	6.36	2,960.15	54.67	-7.77	-50.66	0.28	-0.28	0.46
3,151.00	0.43	317.05	3,150.14	56.92	-8.06	-52.76	0.44	-0.33	-25.95
3,342.00	0.39	322.76	3,341.13	57.96	-8.94	-53.53	0.03	-0.02	2.99
3,533.00	0.79	233.82	3,532.13	57.70	-10.40	-52.89	0.46	0.21	-46.57
3,724.00	1.23	208.33	3,723.10	55.12	-12.43	-49.86	0.32	0.23	-13.35
3,914.00	1.53	205.78	3,913.04	51.04	-14.51	-45.38	0.16	0.16	-1.34
4,105.00	1.97	194.27	4,103.95	45.57	-16.42	-39.59	0.29	0.23	-6.03
4,296.00	1.97	191.28	4,294.84	39.17	-17.88	-33.03	0.05	0.00	-1.57
4,485.00	1.93	185.92	4,483.73	32.81	-18.84	-26.65	0.10	-0.02	-2.84
4,675.00	3.25	189.70	4,673.53	24.32	-20.08	-18.14	0.70	0.69	1.99
4,770.00	5.97	182.31	4,768.22	16.73	-20.73	-10.64	2.92	2.86	-7.78
4,865.00	7.95	190.40	4,862.51	5.33	-22.11	0.72	2.32	2.08	8.52
4,960.00	12.08	195.94	4,956.05	-10.70	-26.03	17.21	4.46	4.35	5.83
5,074.00	17.27	194.89	5,066.29	-38.54	-33.66	46.08	4.56	4.55	-0.92
5,105.00	22.85	192.78	5,095.40	-48.87	-36.18	56.70	18.15	18.00	-6.81
5,137.00	26.63	192.08	5,124.46	-61.94	-39.05	70.07	11.85	11.81	-2.19
5,169.00	29.75	194.62	5,152.66	-76.64	-42.56	85.18	10.44	9.75	7.94
5,200.00	31.02	196.65	5,179.40	-91.74	-46.79	100.85	5.27	4.10	6.55
5,232.00	34.23	197.00	5,206.35	-108.25	-51.79	118.10	10.05	10.03	1.09
5,264.00	38.50	196.12	5,232.11	-126.43	-57.18	137.06	13.44	13.34	-2.75
5,296.00	42.50	194.54	5,256.44	-146.47	-62.67	157.84	12.90	12.50	-4.94
5,328.00	43.81	191.64	5,279.79	-167.79	-67.62	179.70	7.43	4.09	-9.06
5,359.00	48.08	192.43	5,301.34	-189.57	-72.27	201.94	13.90	13.77	2.55
5,391.00	53.21	191.72	5,321.62	-213.76	-77.43	226.63	16.12	16.03	-2.22
5,422.00	56.90	190.75	5,339.38	-238.68	-82.38	251.97	12.18	11.90	-3.13
5,454.00	59.98	190.75	5,356.12	-265.46	-87.46	279.15	9.63	9.63	0.00
5,486.00	63.54	194.48	5,371.27	-292.96	-93.63	307.30	15.14	11.13	11.66
5,517.00	67.19	197.26	5,384.19	-320.05	-101.35	335.47	14.32	11.77	8.97
5,549.00	70.13	197.96	5,395.83	-348.46	-110.36	365.25	9.41	9.19	2.19
5,580.00	71.89	196.55	5,405.92	-376.45	-119.06	394.54	7.12	5.68	-4.55
5,612.00	75.58	196.82	5,414.88	-405.87	-127.88	425.25	11.56	11.53	0.84
5,643.00	80.50	195.85	5,421.30	-434.97	-136.40	455.56	16.16	15.87	-3.13
5,675.00	86.26	195.59	5,424.99	-465.55	-145.01	487.33	18.02	18.00	-0.81
5,707.00	87.31	196.20	5,426.78	-496.28	-153.76	519.28	3.79	3.28	1.91
5,738.00	92.06	195.15	5,426.95	-526.12	-162.13	550.27	15.69	15.32	-3.39



Survey Report

<b>Company:</b>	QEP Energy Services	<b>Local Co-ordinate Reference:</b>	Well WR 11G-5-10-17
<b>Project:</b>	Wilkin Ridge	<b>TVD Reference:</b>	RKB @ 5817.30usft (SST 54)
<b>Site:</b>	WR 11G5-10-17	<b>MD Reference:</b>	RKB @ 5817.30usft (SST 54)
<b>Well:</b>	WR 11G-5-10-17	<b>North Reference:</b>	True
<b>Wellbore:</b>	WR 11G-5-10-17	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	WR 11G-5-10-17	<b>Database:</b>	Compass DB

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,770.00	92.72	195.59	5,425.62	-556.94	-170.61	582.24	2.48	2.06	1.38
5,807.00	93.08	196.21	5,423.75	-592.48	-180.73	619.19	1.94	0.97	1.68
5,838.00	93.78	196.21	5,421.89	-622.20	-189.37	650.13	2.26	2.26	0.00
5,870.00	93.69	196.21	5,419.81	-652.86	-198.28	682.06	0.28	-0.28	0.00
5,901.00	93.38	195.85	5,417.90	-682.60	-206.83	713.00	1.53	-1.00	-1.16
5,933.00	95.98	196.03	5,415.29	-713.26	-215.58	744.89	8.14	8.13	0.56
5,964.00	95.49	196.91	5,412.19	-742.84	-224.33	775.73	3.24	-1.58	2.84
5,996.00	93.69	196.65	5,409.63	-773.38	-233.54	807.61	5.68	-5.63	-0.81
6,028.00	91.75	196.11	5,408.11	-804.04	-242.55	839.57	6.29	-6.06	-1.69
6,059.00	91.18	196.29	5,407.32	-833.80	-251.20	870.56	1.93	-1.84	0.58
6,091.00	89.91	196.90	5,407.01	-864.47	-260.34	902.55	4.40	-3.97	1.91
6,122.00	89.38	196.90	5,407.21	-894.13	-269.35	933.54	1.71	-1.71	0.00
6,154.00	92.06	197.70	5,406.80	-924.68	-278.86	965.51	8.74	8.38	2.50
6,186.00	93.64	197.26	5,405.21	-955.16	-288.46	997.45	5.12	4.94	-1.38
6,217.00	91.27	196.03	5,403.88	-984.83	-297.33	1,028.41	8.61	-7.65	-3.97

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
22.80	22.80	0.00	0.00	RKB Air Gap

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



## **QEP Energy Services**

**Wilkin Ridge**

**WR 11G5-10-17**

**WR 11G-5-10-17**

**WR 11G-5-10-17**

**Survey: WR 11G-5-10-17 ST1**

## **Standard Survey Report**

**16 September, 2013**



Survey Report

<b>Company:</b>	QEP Energy Services	<b>Local Co-ordinate Reference:</b>	Well WR 11G-5-10-17
<b>Project:</b>	Wilkin Ridge	<b>TVD Reference:</b>	RKB @ 5817.30usft (SST 54)
<b>Site:</b>	WR 11G5-10-17	<b>MD Reference:</b>	RKB @ 5817.30usft (SST 54)
<b>Well:</b>	WR 11G-5-10-17	<b>North Reference:</b>	True
<b>Wellbore:</b>	WR 11G-5-10-17	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	WR 11G-5-10-17	<b>Database:</b>	Compass DB

<b>Project</b>	Wilkin Ridge		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Utah Central Zone		Using geodetic scale factor

<b>Site</b>	WR 11G5-10-17				
<b>Site Position:</b>		<b>Northing:</b>	7,161,106.664 usft	<b>Latitude:</b>	39.969811
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,052,011.976 usft	<b>Longitude:</b>	-110.031308
<b>Position Uncertainty:</b>	0.00 usft	<b>Slot Radius:</b>	13-3/16 "	<b>Grid Convergence:</b>	0.94 °

<b>Well</b>	WR 11G-5-10-17					
<b>Well Position</b>	<b>+N/-S</b>	0.00 usft	<b>Northing:</b>	7,161,106.950 usft	<b>Latitude:</b>	39.969812
	<b>+E/-W</b>	0.00 usft	<b>Easting:</b>	2,052,016.750 usft	<b>Longitude:</b>	-110.031291
<b>Position Uncertainty</b>		0.00 usft	<b>Wellhead Elevation:</b>	5,794.50 usft	<b>Ground Level:</b>	5,794.50 usft

<b>Wellbore</b>	WR 11G-5-10-17				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	7/18/2013	11.02	65.69	52,025

<b>Design</b>	WR 11G-5-10-17				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>	
	0.00	0.00	0.00	195.36	

<b>Survey Program</b>	<b>Date</b>	9/4/2013			
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
22.80	5,870.00	WR 11G-5-10-17 Original Hole (WR 11G-5-10-17)	NN MWD	MWD - Standard	
5,901.00	8,495.00	WR 11G-5-10-17 ST1 (WR 11G-5-10-17)	NN MWD	MWD - Standard	
8,563.00	11,379.00	WR 11G-5-10-17 ST2 (WR 11G-5-10-17)	NN MWD	MWD - Standard	

<b>Survey</b>										
<b>Measured Depth (usft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Vertical Section (usft)</b>	<b>Dogleg Rate (°/100usft)</b>	<b>Build Rate (°/100usft)</b>	<b>Turn Rate (°/100usft)</b>	
5,870.00	93.69	196.21	5,419.81	-652.86	-198.28	682.06	0.00	0.00	0.00	
5,901.00	92.15	196.46	5,418.23	-682.57	-206.99	713.02	5.03	-4.97	0.81	
5,933.00	89.78	198.40	5,417.69	-713.09	-216.57	744.99	9.57	-7.41	6.06	
5,964.00	92.10	201.83	5,417.18	-742.19	-227.23	775.87	13.36	7.48	11.06	
5,996.00	93.96	202.76	5,415.49	-771.76	-239.35	807.59	6.50	5.81	2.91	
6,028.00	93.69	202.44	5,413.36	-801.23	-251.62	839.26	1.31	-0.84	-1.00	
6,059.00	91.40	202.27	5,411.98	-829.87	-263.40	870.00	7.41	-7.39	-0.55	
6,091.00	90.96	203.06	5,411.32	-859.39	-275.73	901.73	2.83	-1.38	2.47	
6,122.00	91.45	201.30	5,410.67	-888.09	-287.43	932.50	5.89	1.58	-5.68	



Survey Report

<b>Company:</b>	QEP Energy Services	<b>Local Co-ordinate Reference:</b>	Well WR 11G-5-10-17
<b>Project:</b>	Wilkin Ridge	<b>TVD Reference:</b>	RKB @ 5817.30usft (SST 54)
<b>Site:</b>	WR 11G5-10-17	<b>MD Reference:</b>	RKB @ 5817.30usft (SST 54)
<b>Well:</b>	WR 11G-5-10-17	<b>North Reference:</b>	True
<b>Wellbore:</b>	WR 11G-5-10-17	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	WR 11G-5-10-17	<b>Database:</b>	Compass DB

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
6,154.00	91.18	201.30	5,409.93	-917.90	-299.05	964.32	0.84	-0.84	0.00	
6,186.00	91.40	201.21	5,409.21	-947.72	-310.65	996.15	0.74	0.69	-0.28	
6,217.00	93.30	201.13	5,407.94	-976.60	-321.83	1,026.96	6.13	6.13	-0.26	
6,249.00	93.21	199.46	5,406.13	-1,006.56	-332.91	1,058.79	5.22	-0.28	-5.22	
6,281.00	92.50	198.75	5,404.53	-1,036.76	-343.37	1,090.68	3.14	-2.22	-2.22	
6,313.00	92.11	198.14	5,403.25	-1,067.09	-353.49	1,122.61	2.26	-1.22	-1.91	
6,344.00	91.76	197.61	5,402.20	-1,096.58	-363.00	1,153.56	2.05	-1.13	-1.71	
6,376.00	91.98	194.98	5,401.15	-1,127.27	-371.97	1,185.54	8.24	0.69	-8.22	
6,408.00	92.50	194.18	5,399.90	-1,158.22	-380.02	1,217.51	2.98	1.63	-2.50	
6,439.00	93.60	196.56	5,398.25	-1,188.07	-388.23	1,248.46	8.45	3.55	7.68	
6,471.00	93.52	195.77	5,396.27	-1,218.74	-397.12	1,280.40	2.48	-0.25	-2.47	
6,502.00	92.02	193.92	5,394.77	-1,248.67	-405.05	1,311.36	7.68	-4.84	-5.97	
6,534.00	92.59	194.27	5,393.48	-1,279.68	-412.84	1,343.32	2.09	1.78	1.09	
6,566.00	91.75	194.27	5,392.27	-1,310.67	-420.72	1,375.29	2.63	-2.63	0.00	
6,597.00	92.81	194.27	5,391.04	-1,340.69	-428.35	1,406.26	3.42	3.42	0.00	
6,629.00	91.80	193.92	5,389.75	-1,371.70	-436.14	1,438.23	3.34	-3.16	-1.09	
6,661.00	91.97	193.48	5,388.70	-1,402.77	-443.71	1,470.20	1.47	0.53	-1.38	
6,692.00	92.81	193.39	5,387.40	-1,432.90	-450.91	1,501.15	2.73	2.71	-0.29	
6,724.00	92.59	193.59	5,385.90	-1,463.98	-458.37	1,533.10	0.93	-0.69	0.63	
6,755.00	91.89	193.66	5,384.69	-1,494.09	-465.66	1,564.06	2.27	-2.26	0.23	
6,787.00	92.46	192.87	5,383.47	-1,525.21	-473.00	1,596.02	3.04	1.78	-2.47	
6,819.00	92.37	192.77	5,382.12	-1,556.38	-480.10	1,627.96	0.42	-0.28	-0.31	
6,850.00	91.89	193.22	5,380.97	-1,586.57	-487.06	1,658.91	2.12	-1.55	1.45	
6,882.00	92.64	192.95	5,379.71	-1,617.71	-494.30	1,690.86	2.49	2.34	-0.84	
6,913.00	91.89	192.25	5,378.48	-1,647.94	-501.06	1,721.80	3.31	-2.42	-2.26	
6,945.00	91.58	191.90	5,377.51	-1,679.22	-507.75	1,753.73	1.46	-0.97	-1.09	
6,977.00	93.16	191.99	5,376.19	-1,710.50	-514.37	1,785.65	4.95	4.94	0.28	
7,008.00	93.74	191.72	5,374.32	-1,740.78	-520.72	1,816.53	2.06	1.87	-0.87	
7,040.00	92.64	190.67	5,372.54	-1,772.13	-526.93	1,848.40	4.75	-3.44	-3.28	
7,071.00	92.59	192.34	5,371.13	-1,802.47	-533.10	1,879.29	5.38	-0.16	5.39	
7,103.00	92.46	191.90	5,369.72	-1,833.73	-539.81	1,911.21	1.43	-0.41	-1.38	
7,135.00	92.20	192.34	5,368.42	-1,864.99	-546.53	1,943.13	1.60	-0.81	1.38	
7,166.00	93.51	194.09	5,366.87	-1,895.13	-553.60	1,974.07	7.05	4.23	5.65	
7,197.00	92.10	193.92	5,365.36	-1,925.17	-561.10	2,005.03	4.58	-4.55	-0.55	
7,229.00	93.07	194.44	5,363.91	-1,956.16	-568.93	2,036.99	3.44	3.03	1.63	
7,261.00	92.15	192.86	5,362.46	-1,987.22	-576.47	2,068.94	5.71	-2.88	-4.94	
7,293.00	91.80	192.77	5,361.35	-2,018.41	-583.57	2,100.89	1.13	-1.09	-0.28	
7,324.00	92.19	193.48	5,360.27	-2,048.58	-590.60	2,131.84	2.61	1.26	2.29	
7,356.00	92.54	193.83	5,358.95	-2,079.65	-598.15	2,163.80	1.55	1.09	1.09	
7,388.00	92.81	194.09	5,357.46	-2,110.67	-605.86	2,195.76	1.17	0.84	0.81	
7,419.00	91.40	192.77	5,356.32	-2,140.80	-613.05	2,226.72	6.23	-4.55	-4.26	
7,451.00	92.37	194.00	5,355.27	-2,171.91	-620.46	2,258.68	4.89	3.03	3.84	
7,483.00	92.81	194.18	5,353.82	-2,202.92	-628.24	2,290.64	1.49	1.38	0.56	



Survey Report

<b>Company:</b>	QEP Energy Services	<b>Local Co-ordinate Reference:</b>	Well WR 11G-5-10-17
<b>Project:</b>	Wilkin Ridge	<b>TVD Reference:</b>	RKB @ 5817.30usft (SST 54)
<b>Site:</b>	WR 11G5-10-17	<b>MD Reference:</b>	RKB @ 5817.30usft (SST 54)
<b>Well:</b>	WR 11G-5-10-17	<b>North Reference:</b>	True
<b>Wellbore:</b>	WR 11G-5-10-17	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	WR 11G-5-10-17	<b>Database:</b>	Compass DB

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
7,515.00	92.19	195.50	5,352.43	-2,233.82	-636.43	2,322.61	4.55	-1.94	4.13	
7,546.00	92.19	195.32	5,351.24	-2,263.68	-644.66	2,353.59	0.58	0.00	-0.58	
7,578.00	92.32	194.53	5,349.98	-2,294.58	-652.89	2,385.56	2.50	0.41	-2.47	
7,610.00	91.97	193.56	5,348.78	-2,325.60	-660.65	2,417.53	3.22	-1.09	-3.03	
7,641.00	91.97	194.36	5,347.72	-2,355.67	-668.13	2,448.50	2.58	0.00	2.58	
7,672.00	92.37	195.85	5,346.54	-2,385.58	-676.20	2,479.48	4.97	1.29	4.81	
7,704.00	93.07	195.59	5,345.03	-2,416.34	-684.86	2,511.44	2.33	2.19	-0.81	
7,736.00	92.63	192.86	5,343.43	-2,447.32	-692.71	2,543.39	8.63	-1.38	-8.53	
7,767.00	93.03	192.25	5,341.90	-2,477.54	-699.44	2,574.32	2.35	1.29	-1.97	
7,799.00	91.71	190.49	5,340.58	-2,508.89	-705.75	2,606.21	6.87	-4.13	-5.50	
7,831.00	93.03	193.04	5,339.26	-2,540.18	-712.27	2,638.12	8.97	4.13	7.97	
7,862.00	92.81	192.42	5,337.68	-2,570.38	-719.09	2,669.04	2.12	-0.71	-2.00	
7,894.00	92.98	194.79	5,336.06	-2,601.44	-726.60	2,700.98	7.42	0.53	7.41	
7,926.00	93.03	195.94	5,334.38	-2,632.26	-735.07	2,732.94	3.59	0.16	3.59	
7,957.00	92.94	195.32	5,332.77	-2,662.07	-743.41	2,763.90	2.02	-0.29	-2.00	
7,989.00	93.25	195.68	5,331.04	-2,692.86	-751.95	2,795.85	1.48	0.97	1.13	
8,020.00	91.76	193.75	5,329.69	-2,722.81	-759.82	2,826.82	7.86	-4.81	-6.23	
8,052.00	92.20	194.00	5,328.58	-2,753.86	-767.49	2,858.79	1.58	1.38	0.78	
8,084.00	92.42	194.01	5,327.29	-2,784.88	-775.22	2,890.75	0.69	0.69	0.03	
8,115.00	92.46	194.80	5,325.97	-2,814.88	-782.93	2,921.72	2.55	0.13	2.55	
8,147.00	91.80	193.57	5,324.78	-2,845.88	-790.77	2,953.69	4.36	-2.06	-3.84	
8,179.00	92.29	194.36	5,323.64	-2,876.92	-798.48	2,985.66	2.90	1.53	2.47	
8,211.00	92.64	193.75	5,322.26	-2,907.93	-806.25	3,017.62	2.20	1.09	-1.91	
8,242.00	92.72	194.27	5,320.81	-2,937.98	-813.74	3,048.58	1.70	0.26	1.68	
8,274.00	90.88	192.08	5,319.81	-2,969.11	-821.03	3,080.54	8.94	-5.75	-6.84	
8,305.00	91.67	192.69	5,319.12	-2,999.39	-827.68	3,111.49	3.22	2.55	1.97	
8,337.00	90.97	191.90	5,318.38	-3,030.64	-834.49	3,143.43	3.30	-2.19	-2.47	
8,369.00	92.86	193.31	5,317.31	-3,061.85	-841.47	3,175.38	7.37	5.91	4.41	
8,400.00	94.22	193.39	5,315.40	-3,091.96	-848.61	3,206.30	4.39	4.39	0.26	
8,432.00	93.69	193.22	5,313.19	-3,123.02	-855.96	3,238.20	1.74	-1.66	-0.53	
8,464.00	93.03	192.78	5,311.32	-3,154.15	-863.15	3,270.12	2.48	-2.06	-1.38	
8,495.00	92.68	192.51	5,309.77	-3,184.36	-869.93	3,301.04	1.43	-1.13	-0.87	
8,527.00	93.38	193.66	5,308.08	-3,215.48	-877.16	3,332.97	4.20	2.19	3.59	
8,559.00	94.35	194.88	5,305.92	-3,246.42	-885.03	3,364.89	4.86	3.03	3.81	
8,590.00	94.43	194.53	5,303.55	-3,276.32	-892.87	3,395.80	1.15	0.26	-1.13	
8,622.00	93.25	194.62	5,301.41	-3,307.22	-900.91	3,427.73	3.70	-3.69	0.28	
8,654.00	93.25	195.15	5,299.59	-3,338.10	-909.12	3,459.67	1.65	0.00	1.66	
8,685.00	91.93	195.15	5,298.19	-3,367.99	-917.21	3,490.64	4.26	-4.26	0.00	
8,717.00	90.92	194.36	5,297.40	-3,398.92	-925.36	3,522.63	4.01	-3.16	-2.47	
8,748.00	92.19	196.38	5,296.56	-3,428.80	-933.57	3,553.61	7.69	4.10	6.52	
8,780.00	92.46	197.87	5,295.26	-3,459.36	-942.98	3,585.57	4.73	0.84	4.66	
8,811.00	91.75	197.61	5,294.12	-3,488.86	-952.42	3,616.52	2.44	-2.29	-0.84	
8,843.00	91.23	197.08	5,293.29	-3,519.40	-961.96	3,648.49	2.32	-1.63	-1.66	



Survey Report

<b>Company:</b>	QEP Energy Services	<b>Local Co-ordinate Reference:</b>	Well WR 11G-5-10-17
<b>Project:</b>	Wilkin Ridge	<b>TVD Reference:</b>	RKB @ 5817.30usft (SST 54)
<b>Site:</b>	WR 11G5-10-17	<b>MD Reference:</b>	RKB @ 5817.30usft (SST 54)
<b>Well:</b>	WR 11G-5-10-17	<b>North Reference:</b>	True
<b>Wellbore:</b>	WR 11G-5-10-17	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	WR 11G-5-10-17	<b>Database:</b>	Compass DB

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,875.00	92.15	197.96	5,292.34	-3,549.90	-971.59	3,680.46	3.98	2.88	2.75
8,906.00	93.51	198.57	5,290.81	-3,579.30	-981.29	3,711.38	4.81	4.39	1.97
8,938.00	91.84	197.70	5,289.32	-3,609.68	-991.24	3,743.30	5.88	-5.22	-2.72

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



## **QEP Energy Services**

**Wilkin Ridge**

**WR 11G5-10-17**

**WR 11G-5-10-17**

**WR 11G-5-10-17**

**Survey: WR 11G-5-10-17 ST2**

## **Standard Survey Report**

**17 September, 2013**



Survey Report

<b>Company:</b>	QEP Energy Services	<b>Local Co-ordinate Reference:</b>	Well WR 11G-5-10-17
<b>Project:</b>	Wilkin Ridge	<b>TVD Reference:</b>	RKB @ 5817.30usft (SST 54)
<b>Site:</b>	WR 11G5-10-17	<b>MD Reference:</b>	RKB @ 5817.30usft (SST 54)
<b>Well:</b>	WR 11G-5-10-17	<b>North Reference:</b>	True
<b>Wellbore:</b>	WR 11G-5-10-17	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	WR 11G-5-10-17	<b>Database:</b>	Compass DB

<b>Project</b>	Wilkin Ridge		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Utah Central Zone		Using geodetic scale factor

<b>Site</b>	WR 11G5-10-17				
<b>Site Position:</b>		<b>Northing:</b>	7,161,106.664 usft	<b>Latitude:</b>	39.969811
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,052,011.976 usft	<b>Longitude:</b>	-110.031308
<b>Position Uncertainty:</b>	0.00 usft	<b>Slot Radius:</b>	13-3/16 "	<b>Grid Convergence:</b>	0.94 °

<b>Well</b>	WR 11G-5-10-17					
<b>Well Position</b>	<b>+N/-S</b>	0.00 usft	<b>Northing:</b>	7,161,106.950 usft	<b>Latitude:</b>	39.969812
	<b>+E/-W</b>	0.00 usft	<b>Easting:</b>	2,052,016.750 usft	<b>Longitude:</b>	-110.031291
<b>Position Uncertainty</b>		0.00 usft	<b>Wellhead Elevation:</b>	5,794.50 usft	<b>Ground Level:</b>	5,794.50 usft

<b>Wellbore</b>	WR 11G-5-10-17				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	7/18/2013	11.02	65.69	52,025

<b>Design</b>	WR 11G-5-10-17				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>	
	0.00	0.00	0.00	195.36	

<b>Survey Program</b>	<b>Date</b>	9/17/2013			
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
22.80	5,870.00	WR 11G-5-10-17 Original Hole (WR 11G-5	NN MWD	MWD - Standard	
5,901.00	8,495.00	WR 11G-5-10-17 ST1 (WR 11G-5-10-17)	NN MWD	MWD - Standard	
8,563.00	11,420.00	WR 11G-5-10-17 ST2 (WR 11G-5-10-17)	NN MWD	MWD - Standard	

<b>Survey</b>										
<b>Measured Depth (usft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Vertical Section (usft)</b>	<b>Dogleg Rate (°/100usft)</b>	<b>Build Rate (°/100usft)</b>	<b>Turn Rate (°/100usft)</b>	
8,495.00	92.68	192.51	5,309.77	-3,184.36	-869.93	3,301.04	0.00	0.00	0.00	
8,563.00	90.09	192.51	5,308.13	-3,250.72	-884.65	3,368.93	3.81	-3.81	0.00	
8,594.00	89.74	191.46	5,308.18	-3,281.04	-891.09	3,399.88	3.57	-1.13	-3.39	
8,626.00	91.93	193.12	5,307.71	-3,312.30	-897.90	3,431.83	8.59	6.84	5.19	
8,659.00	94.04	193.13	5,305.99	-3,344.40	-905.38	3,464.76	6.39	6.39	0.03	
8,691.00	93.91	192.78	5,303.77	-3,375.51	-912.54	3,496.65	1.16	-0.41	-1.09	
8,722.00	92.11	192.78	5,302.14	-3,405.70	-919.38	3,527.58	5.81	-5.81	0.00	
8,754.00	90.97	192.43	5,301.28	-3,436.91	-926.36	3,559.53	3.73	-3.56	-1.09	
8,786.00	91.80	193.04	5,300.51	-3,468.12	-933.42	3,591.48	3.22	2.59	1.91	



Survey Report

<b>Company:</b>	QEP Energy Services	<b>Local Co-ordinate Reference:</b>	Well WR 11G-5-10-17
<b>Project:</b>	Wilkin Ridge	<b>TVD Reference:</b>	RKB @ 5817.30usft (SST 54)
<b>Site:</b>	WR 11G5-10-17	<b>MD Reference:</b>	RKB @ 5817.30usft (SST 54)
<b>Well:</b>	WR 11G-5-10-17	<b>North Reference:</b>	True
<b>Wellbore:</b>	WR 11G-5-10-17	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	WR 11G-5-10-17	<b>Database:</b>	Compass DB

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,817.00	91.49	192.95	5,299.62	-3,498.31	-940.38	3,622.44	1.04	-1.00	-0.29
8,849.00	92.55	193.31	5,298.49	-3,529.45	-947.65	3,654.40	3.50	3.31	1.13
8,881.00	92.07	193.04	5,297.20	-3,560.59	-954.94	3,686.35	1.72	-1.50	-0.84
8,912.00	92.11	194.18	5,296.07	-3,590.69	-962.23	3,717.31	3.68	0.13	3.68
8,944.00	92.98	195.85	5,294.65	-3,621.57	-970.51	3,749.28	5.88	2.72	5.22
8,976.00	91.53	195.41	5,293.39	-3,652.36	-979.12	3,781.26	4.73	-4.53	-1.38
9,007.00	92.94	198.49	5,292.18	-3,681.99	-988.15	3,812.22	10.92	4.55	9.94
9,039.00	92.06	198.22	5,290.79	-3,712.33	-998.22	3,844.14	2.88	-2.75	-0.84
9,071.00	91.71	197.87	5,289.74	-3,742.74	-1,008.13	3,876.09	1.55	-1.09	-1.09
9,102.00	92.76	198.84	5,288.53	-3,772.14	-1,017.88	3,907.02	4.61	3.39	3.13
9,134.00	92.85	199.80	5,286.96	-3,802.30	-1,028.45	3,938.91	3.01	0.28	3.00
9,165.00	92.98	200.51	5,285.38	-3,831.37	-1,039.12	3,969.76	2.33	0.42	2.29
9,197.00	92.32	199.98	5,283.90	-3,861.36	-1,050.18	4,001.61	2.64	-2.06	-1.66
9,229.00	91.88	200.07	5,282.73	-3,891.40	-1,061.13	4,033.48	1.40	-1.38	0.28
9,260.00	92.98	202.42	5,281.42	-3,920.27	-1,072.35	4,064.29	8.36	3.55	7.58
9,292.00	92.90	203.41	5,279.78	-3,949.70	-1,084.80	4,095.97	3.10	-0.25	3.09
9,324.00	92.06	203.67	5,278.39	-3,979.01	-1,097.57	4,127.61	2.75	-2.63	0.81
9,355.00	91.71	203.32	5,277.37	-4,007.43	-1,109.92	4,158.28	1.60	-1.13	-1.13
9,387.00	92.32	204.11	5,276.25	-4,036.70	-1,122.78	4,189.92	3.12	1.91	2.47
9,418.00	92.63	205.08	5,274.91	-4,064.87	-1,135.67	4,220.49	3.28	1.00	3.13
9,450.00	91.84	205.08	5,273.66	-4,093.83	-1,149.22	4,252.01	2.47	-2.47	0.00
9,482.00	92.41	206.13	5,272.47	-4,122.66	-1,163.04	4,283.47	3.73	1.78	3.28
9,513.00	92.41	207.10	5,271.17	-4,150.35	-1,176.92	4,313.85	3.13	0.00	3.13
9,545.00	91.66	206.48	5,270.03	-4,178.90	-1,191.33	4,345.19	3.04	-2.34	-1.94
9,576.00	92.28	207.80	5,268.97	-4,206.47	-1,205.46	4,375.52	4.70	2.00	4.26
9,608.00	91.88	206.92	5,267.81	-4,234.87	-1,220.16	4,406.80	3.02	-1.25	-2.75
9,640.00	91.93	206.75	5,266.74	-4,263.41	-1,234.60	4,438.14	0.55	0.16	-0.53
9,671.00	92.19	207.10	5,265.63	-4,291.03	-1,248.63	4,468.50	1.41	0.84	1.13
9,703.00	92.24	206.48	5,264.39	-4,319.58	-1,263.04	4,499.84	1.94	0.16	-1.94
9,735.00	91.80	205.34	5,263.26	-4,348.34	-1,277.01	4,531.28	3.82	-1.38	-3.56
9,766.00	91.97	206.04	5,262.24	-4,376.26	-1,290.44	4,561.76	2.32	0.55	2.26
9,798.00	91.93	205.69	5,261.15	-4,405.04	-1,304.40	4,593.20	1.10	-0.13	-1.09
9,829.00	92.06	205.43	5,260.08	-4,432.99	-1,317.76	4,623.69	0.94	0.42	-0.84
9,861.00	92.72	205.69	5,258.74	-4,461.83	-1,331.56	4,655.16	2.22	2.06	0.81
9,893.00	91.49	206.75	5,257.57	-4,490.52	-1,345.69	4,686.56	5.07	-3.84	3.31
9,925.00	91.58	207.36	5,256.71	-4,519.01	-1,360.24	4,717.89	1.93	0.28	1.91
9,956.00	92.46	207.45	5,255.62	-4,546.51	-1,374.50	4,748.19	2.85	2.84	0.29
9,988.00	91.62	207.01	5,254.48	-4,574.94	-1,389.13	4,779.48	2.96	-2.63	-1.38
10,019.00	92.54	207.98	5,253.35	-4,602.42	-1,403.43	4,809.77	4.31	2.97	3.13
10,052.00	92.37	207.98	5,251.94	-4,631.54	-1,418.90	4,841.94	0.52	-0.52	0.00
10,083.00	92.46	207.45	5,250.63	-4,658.96	-1,433.30	4,872.20	1.73	0.29	-1.71
10,115.00	93.12	207.45	5,249.07	-4,687.32	-1,448.04	4,903.45	2.06	2.06	0.00
10,146.00	91.75	206.92	5,247.76	-4,714.87	-1,462.19	4,933.76	4.74	-4.42	-1.71



Survey Report

<b>Company:</b>	QEP Energy Services	<b>Local Co-ordinate Reference:</b>	Well WR 11G-5-10-17
<b>Project:</b>	Wilkin Ridge	<b>TVD Reference:</b>	RKB @ 5817.30usft (SST 54)
<b>Site:</b>	WR 11G5-10-17	<b>MD Reference:</b>	RKB @ 5817.30usft (SST 54)
<b>Well:</b>	WR 11G-5-10-17	<b>North Reference:</b>	True
<b>Wellbore:</b>	WR 11G-5-10-17	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	WR 11G-5-10-17	<b>Database:</b>	Compass DB

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
10,178.00	92.24	206.66	5,246.64	-4,743.42	-1,476.60	4,965.11	1.73	1.53	-0.81	
10,209.00	92.32	206.66	5,245.41	-4,771.10	-1,490.50	4,995.48	0.26	0.26	0.00	
10,241.00	92.15	205.78	5,244.16	-4,799.79	-1,504.63	5,026.88	2.80	-0.53	-2.75	
10,272.00	92.68	205.96	5,242.86	-4,827.66	-1,518.14	5,057.34	1.81	1.71	0.58	
10,304.00	92.72	206.04	5,241.35	-4,856.39	-1,532.15	5,088.75	0.28	0.13	0.25	
10,336.00	92.76	205.08	5,239.82	-4,885.22	-1,545.94	5,120.21	3.00	0.13	-3.00	
10,368.00	92.31	203.85	5,238.40	-4,914.32	-1,559.18	5,151.77	4.09	-1.41	-3.84	
10,399.00	92.90	204.73	5,236.99	-4,942.54	-1,571.92	5,182.37	3.42	1.90	2.84	
10,431.00	92.37	204.64	5,235.52	-4,971.59	-1,585.27	5,213.91	1.68	-1.66	-0.28	
10,462.00	92.24	204.81	5,234.28	-4,999.72	-1,598.23	5,244.47	0.69	-0.42	0.55	
10,494.00	92.94	205.17	5,232.83	-5,028.70	-1,611.73	5,275.99	2.46	2.19	1.13	
10,526.00	91.58	205.45	5,231.57	-5,057.60	-1,625.40	5,307.48	4.34	-4.25	0.88	
10,557.00	91.80	204.99	5,230.65	-5,085.64	-1,638.60	5,338.01	1.64	0.71	-1.48	
10,589.00	92.94	205.34	5,229.33	-5,114.57	-1,652.20	5,369.51	3.73	3.56	1.09	
10,620.00	93.42	205.69	5,227.61	-5,142.51	-1,665.53	5,399.98	1.92	1.55	1.13	
10,652.00	91.88	205.69	5,226.13	-5,171.31	-1,679.39	5,431.43	4.81	-4.81	0.00	
10,684.00	92.68	205.69	5,224.86	-5,200.13	-1,693.25	5,462.88	2.50	2.50	0.00	
10,715.00	92.59	205.52	5,223.43	-5,228.05	-1,706.63	5,493.36	0.62	-0.29	-0.55	
10,747.00	92.32	205.52	5,222.06	-5,256.90	-1,720.41	5,524.83	0.84	-0.84	0.00	
10,778.00	91.84	205.78	5,220.94	-5,284.83	-1,733.82	5,555.31	1.76	-1.55	0.84	
10,810.00	91.27	205.78	5,220.07	-5,313.64	-1,747.73	5,586.77	1.78	-1.78	0.00	
10,841.00	90.74	205.69	5,219.53	-5,341.56	-1,761.19	5,617.26	1.73	-1.71	-0.29	
10,873.00	91.14	205.78	5,219.00	-5,370.38	-1,775.08	5,648.73	1.28	1.25	0.28	
10,905.00	92.32	205.69	5,218.03	-5,399.19	-1,788.97	5,680.19	3.70	3.69	-0.28	
10,936.00	92.76	206.22	5,216.66	-5,427.04	-1,802.52	5,710.63	2.22	1.42	1.71	
10,968.00	92.72	206.13	5,215.13	-5,455.72	-1,816.62	5,742.03	0.31	-0.13	-0.28	
10,999.00	92.76	205.61	5,213.65	-5,483.58	-1,830.13	5,772.47	1.68	0.13	-1.68	
11,031.00	92.06	205.43	5,212.30	-5,512.44	-1,843.91	5,803.94	2.26	-2.19	-0.56	
11,062.00	92.28	204.55	5,211.13	-5,540.51	-1,856.99	5,834.48	2.92	0.71	-2.84	
11,094.00	93.91	205.34	5,209.40	-5,569.48	-1,870.47	5,865.99	5.66	5.09	2.47	
11,125.00	92.37	204.73	5,207.70	-5,597.53	-1,883.57	5,896.50	5.34	-4.97	-1.97	
11,157.00	91.84	205.17	5,206.53	-5,626.52	-1,897.06	5,928.03	2.15	-1.66	1.38	
11,189.00	93.25	206.04	5,205.11	-5,655.35	-1,910.87	5,959.49	5.18	4.41	2.72	
11,221.00	93.29	205.96	5,203.28	-5,684.06	-1,924.88	5,990.89	0.28	0.13	-0.25	
11,252.00	91.40	204.46	5,202.01	-5,712.09	-1,938.07	6,021.40	7.78	-6.10	-4.84	
11,284.00	92.76	205.25	5,200.85	-5,741.10	-1,951.51	6,052.94	4.91	4.25	2.47	
11,315.00	92.85	204.64	5,199.33	-5,769.18	-1,964.57	6,083.47	1.99	0.29	-1.97	
11,347.00	92.50	203.32	5,197.84	-5,798.38	-1,977.56	6,115.07	4.26	-1.09	-4.13	
11,379.00	92.50	203.32	5,196.45	-5,827.74	-1,990.21	6,146.74	0.00	0.00	0.00	
11,420.00	92.50	203.32	5,194.66	-5,865.36	-2,006.43	6,187.30	0.00	0.00	0.00	
Proj @ TD										



Survey Report

<b>Company:</b>	QEP Energy Services	<b>Local Co-ordinate Reference:</b>	Well WR 11G-5-10-17
<b>Project:</b>	Wilkin Ridge	<b>TVD Reference:</b>	RKB @ 5817.30usft (SST 54)
<b>Site:</b>	WR 11G5-10-17	<b>MD Reference:</b>	RKB @ 5817.30usft (SST 54)
<b>Well:</b>	WR 11G-5-10-17	<b>North Reference:</b>	True
<b>Wellbore:</b>	WR 11G-5-10-17	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	WR 11G-5-10-17	<b>Database:</b>	Compass DB

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
11,420.00	5,194.66	-5,865.36	-2,006.43	Proj @ TD

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

4303-51913



## United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office

440 West 200 South, Suite 500

Salt Lake City, UT 84101-1345

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



JAN 23 2015

RECEIVED

JAN 26 2015

DIV. OF OIL, GAS & MINING

IN REPLY REFER TO:  
3180 (UTU88573X)  
UT-922000

Mr. Raul Chavez  
QEP Energy Company  
1050 17<sup>th</sup> Street, Suite 500  
Denver, Colorado 80265

Re: 1<sup>st</sup> Revision of the Green River  
Participating Area (PA) "A"  
Scylla (GR) Unit  
Duchesne and Uintah Counties, Utah

Dear Mr. Chavez:

The 1st Revision of the Green River Formation Participating Area (PA) "A", Scylla Unit, UTU88573A, is hereby approved effective as of September 1, 2013, pursuant to Section 11 of the Scylla Unit Agreement, located in Duchesne and Uintah Counties, Utah.

The 1st Revision of the Green River Formation Participating Area (PA) "A", results in the addition of 520.00 acres to the participating area for a total of 800.00 acres and is based upon the completion of horizontal Unit Well No. WR 11G-5-10-17, API No. 43-013-51913, with a surface location in the NE $\frac{1}{4}$ SW $\frac{1}{4}$  of Section 5, Township 10 South, Range 17 East, SLM&B, Unit Tract No. 3, UTU75081; and a bottom hole location in the SW $\frac{1}{4}$ SW $\frac{1}{4}$  of Section 8, Township 10 South, Range 17 East, SLM&B, Unit Tract No. 3, Lease No. UTU75081.

For production and accounting reporting purposes, all submissions pertaining to the Green River Participating Area "A" shall refer to UTU88573A.

Copies of the approved requests are being distributed to the appropriate agencies and one copy is returned herewith. Please advise all interested parties of the approval of the 1st Revision of the Green River Formation Participating Area (PA) "A", Scylla Unit and its effective date.

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

Sincerely,

A handwritten signature in black ink that reads "Roger L. Bankert". The signature is written in a cursive style with a large, prominent "R" and "B".

Roger L. Bankert  
Chief, Branch of Minerals

Enclosure

cc: UDOGM  
SITLA  
ONRR (Attn: Cheri Baker)  
BLM FOM - Vernal w/enclosure