

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

FORM 3

AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER RW 43-20B					
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT RED WASH					
4. TYPE OF WELL Gas Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME RED WASH					
6. NAME OF OPERATOR QEP ENERGY COMPANY						7. OPERATOR PHONE 303 308-3068					
8. ADDRESS OF OPERATOR 11002 East 17500 South, Vernal, Ut, 84078						9. OPERATOR E-MAIL debbie.stanberry@questar.com					
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UTU02030			11. MINERAL OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>					
13. NAME OF SURFACE OWNER (if box 12 = 'fee')						14. SURFACE OWNER PHONE (if box 12 = 'fee')					
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')					
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input checked="" type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/>					
20. LOCATION OF WELL		FOOTAGES		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN			
LOCATION AT SURFACE		1637 FSL 562 FEL		NESE	20	7.0 S	23.0 E	S			
Top of Uppermost Producing Zone		1637 FSL 562 FEL		NESE	20	7.0 S	23.0 E	S			
At Total Depth		1637 FSL 562 FEL		NESE	20	7.0 S	23.0 E	S			
21. COUNTY UINTAH			22. DISTANCE TO NEAREST LEASE LINE (Feet) 562			23. NUMBER OF ACRES IN DRILLING UNIT 40					
27. ELEVATION - GROUND LEVEL 5512			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 1083			26. PROPOSED DEPTH MD: 11254 TVD: 11254					
28. BOND NUMBER ESB000024			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE A-36125/ 49-2153								
Hole, Casing, and Cement Information											
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement		Sacks	Yield	Weight
SURF	12.25	9.625	0 - 3824	36.0	N-80 LT&C	0.0	Halliburton Light , Type Unknown		460	3.12	11.0
							Halliburton Premium , Type Unknown		280	1.47	13.5
PROD	7.875	4.5	0 - 11254	11.6	HCP-110 LT&C	10.5	Halliburton Light , Type Unknown		620	3.18	11.0
							Halliburton Premium , Type Unknown		530	1.65	13.5
ATTACHMENTS											
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES											
<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						
NAME Valyn Davis			TITLE Regulatory Affairs Analyst			PHONE 435 781-4369					
SIGNATURE			DATE 06/28/2011			EMAIL Valyn.Davis@qepres.com					
API NUMBER ASSIGNED 43047517210000			APPROVAL  Permit Manager								

QEP Energy Company
RW 43-20B
Summarized Drilling Procedure

1. Construct location per plat.
2. MIRU air drilling rig.
3. Pre-set conductor.
4. Nipple up diverter system.
5. Drill 12-1/4" hole to 3,824' with air/mist.
6. RIH with 9-5/8" 36# N-80 casing and cement same per program.
7. RDMO air drilling rig.
8. MIRU conventional drilling rig.
9. NU and test 5M BOPE.
10. Drill out of 9-5/8" shoe and down to 11,254' using conventional mud systems.
11. Log well. Triple or Quad-Combo (GR, NEU/DEN, IND, RES, SON)
12. RIH with 4-1/2" 11.6# HCP-110 casing and cement same per program.
13. Pressure test casing.
14. ND BOP's and NU remainder of wellhead. Set BPV.
15. RDMO.

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ONSHORE OIL & GAS ORDER NO. 1
QEP ENERGY COMPANY
RW 43-20B

DRILLING PROGRAM

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

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

1. **Formation Tops**

The estimated top of important geologic markers are as follows:

<u>Formation</u>	<u>Depth, TVD & MD</u>
Green River	2,994'
Mahogany	3,774'
Wasatch	6,324'
Mesaverde	8,744'
Sego	11,154'
TD	11,254'

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

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

<u>Substance</u>	<u>Formation</u>	<u>Depth, TVD & MD</u>
Oil	Green River	2,994'
Gas	Wasatch	6,324'
Gas	Mesaverde	8,744'
Gas	Sego	11,154'

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

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

ONSHORE OIL & GAS ORDER NO. 1
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(which was filed on May 7, 1964) or Red Wash water right # 49-2153 (which was filed on March 25, 1960). It was determined by the Fish and Wildlife Service that any water right number filed before 1989 is not depleting to the Upper Colorado River System, to supply fresh water for drilling purposes. All water resulting from drilling operations will be disposed of at Red Wash Central Battery Disposal site; SWSE, Section 27, T7S, R23E or Wonsits Valley Disposal Site; SWNW, Section 12, T8S, R21E.

3. Operator's Specification for Pressure Control Equipment

- A. An 11" 5000 psi double ram with blind rams and pipe rams, annular preventer and drilling spool or BOP with 2 side outlets.
- B. All BOP connections subject to pressure shall be flanged, welded or clamped.
- C. Kill line (2" min), 2 choke line valves (3" min), choke line (3" min), 2 kill line valves (2" min) and a check valve, 2 chokes with one remotely controlled from rig floor and a pressure gauge on choke manifold.
- D. Upper and Lower Kelly cock valves with handles and safety valve and subs to fit all drill string connections.
- E. IBOP or float sub available.
- F. Fill up line must be installed above the uppermost preventer.
- G. Ram type preventers and associated equipment shall be tested to approved stack working pressure if isolated by test plug or to 50 percent of internal yield pressure of casing whichever is less. BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc..., for a 5M system and individual components shall be operable as designed.

4. Casing Design:

Hole Size	Csg. Size	Top (MD)	Bottom (MD)	Wt.	Grade	Thread	Cond.	Expected MW(ppg)
17 1/2"	14"	Sfc	60'	Steel	Conductor	None	Used	N/A
12-1/4"	9-5/8"	Sfc	3,824'	36#	N-80	LTC	New	Air
7 7/8"	4-1/2"	Sfc	11,254'	11.6#	HCP-110	LTC	New	10.5

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

Casing Design Factors

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

Burst: 1.2

Collapse: 1.2

Tension: 1.6

Maximum anticipated mud weight: 10.5 ppg

Maximum anticipated surface treating pressure: 7,200 psi

5. **Cementing Program**

9-5/8" Surface Casing:

Lead Slurry: Surface (TOC) – 3,000'. 460 sks (1409 ft³) Halliburton Extendacem, 1 pps Granulite TR 1/4, 0.125 pps Poly-E-Flake, Slurry Weight 11.0 ppg, 3.12 ft³/sk, 50% XS in open hole only.

Tail Slurry: 3,000' – 3,824'. 280 sx (404 ft³) Halliburton Econocem, 0.2% HR-5 Retarder, 1.0 pps Granulite TR 1/4, 0.125 pps Poly-E-Flake, Slurry Weight 13.5 ppg, 1.47 ft³/sk, 50% XS in open hole.

4-1/2" Production Casing*:

Lead Slurry: 3,000' (TOC) – 8,744'. 620 sks (1948 ft³) Halliburton Extendacem, 1 pps Granulite 1/4, 0.125 pps Poly-E-Flake. Slurry Weight 11.0 lb/gal, 3.18 ft³/sk, 50% excess over gauge in open hole only.

Tail Slurry: 8,744' – 11,254'. 530 sks (861 ft³), Halliburton Expandacem, 0.3% Super CBL (Expander), 0.6% HR-800 (Retarder), 1 pps Granulite TR 1/4, 0.125 pps Poly-E-Flake (LCM). Slurry Weight 13.5 lb/gal, 1.65 ft³/sk, 50% excess over gauge hole.

*Final cement volumes to be calculated from caliper log.

6. **Auxiliary Equipment**

A. Kelly Cock – yes

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QEP ENERGY COMPANY
RW 43-20B

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

Drilling surface hole with air:

A variance from 43 CFR 3160 Onshore Oil and Gas Order #2, Section III Requirements, subsection E. Special Drilling Operations is requested for the specific operation of drilling and setting surface casing on the subject well with a truck mounted air rig. The variance from the following requirements of Order #2 is requested because surface casing depth for this well is 3,824' feet and high pressures are not expected.

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

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QEP ENERGY COMPANY
RW 43-20B

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

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

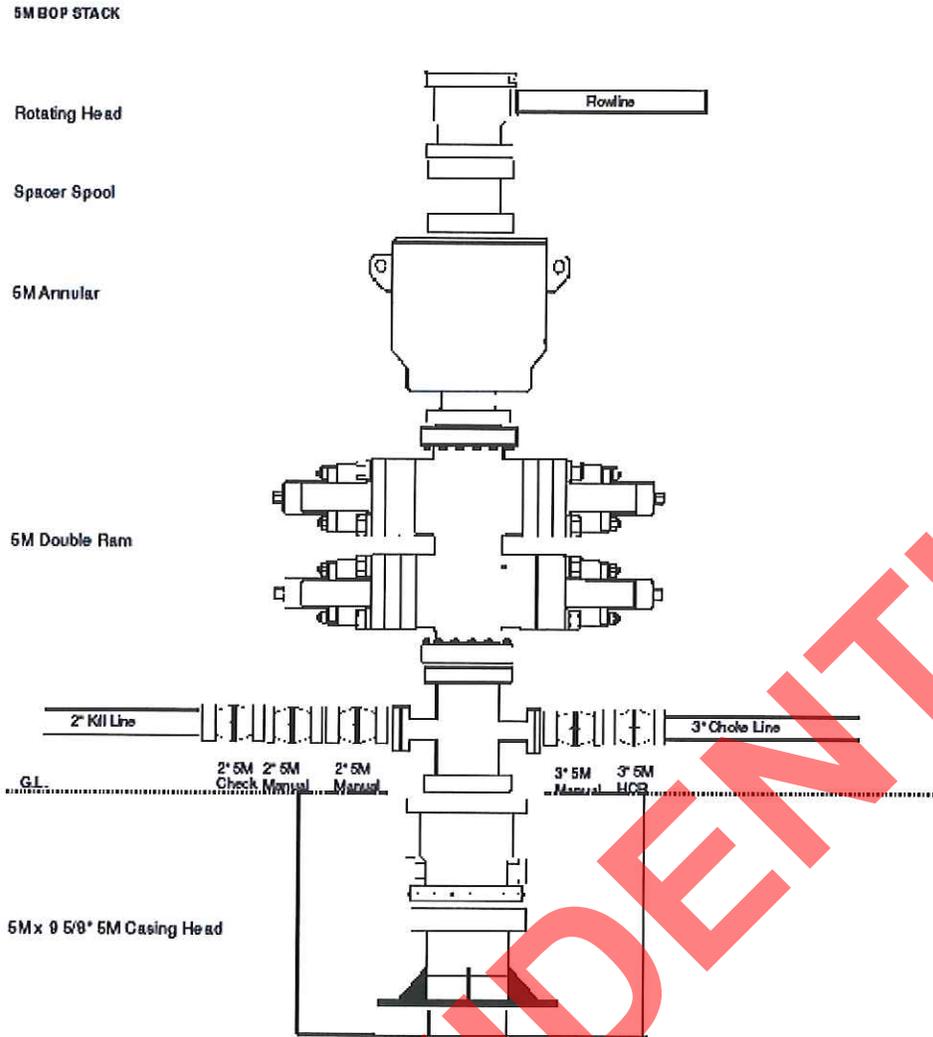
8. **Anticipated Abnormal Pressures and Temperatures, Other Potential Hazards**

No abnormal temperatures or pressures are anticipated. Maximum anticipated bottom hole pressure equals approximately 6,145 psi. Maximum anticipated bottom hole temperature is 210° F.

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

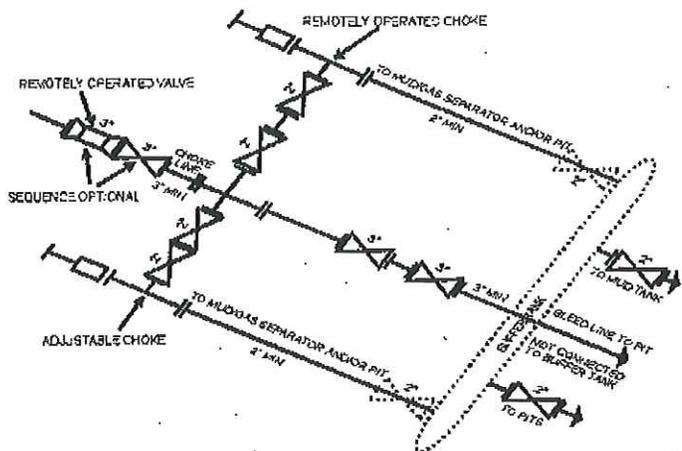
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ONSHORE OIL & GAS ORDER NO. 1
QEP ENERGY COMPANY
RW 43-20B



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RW 43-20B



5M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY

Although not required for any of the choke manifold systems, buffer tanks are sometimes installed downstream of the choke assemblies for the purpose of manifolding the bleed lines together. When buffer tanks are employed, valves shall be installed upstream to isolate a failure or malfunction without interrupting flow control. Though not shown on 20L, 30L, 100L, OR 150L drawings, it would also be applicable to those situations.
[54 FR 39528, Sept. 27, 1989]

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RW 43-20B
NESE Sec 20 T7S R23E
1637' FSL & 562' FEL Sec 20 T7S R23E S.L.B.&M.
Uintah County, Utah
KB 5,526'
GL 5,512'

14" Conductor at 60'

Cemented to surface

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

12-1/4" Open Hole

9-5/8" 36# N-80 @ 3,824'

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

7-7/8" Open Hole

4 1/2" 11.6# HCP-110

11,254'

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

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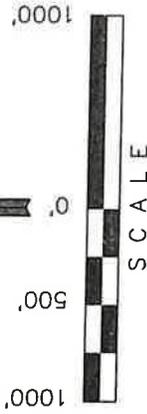
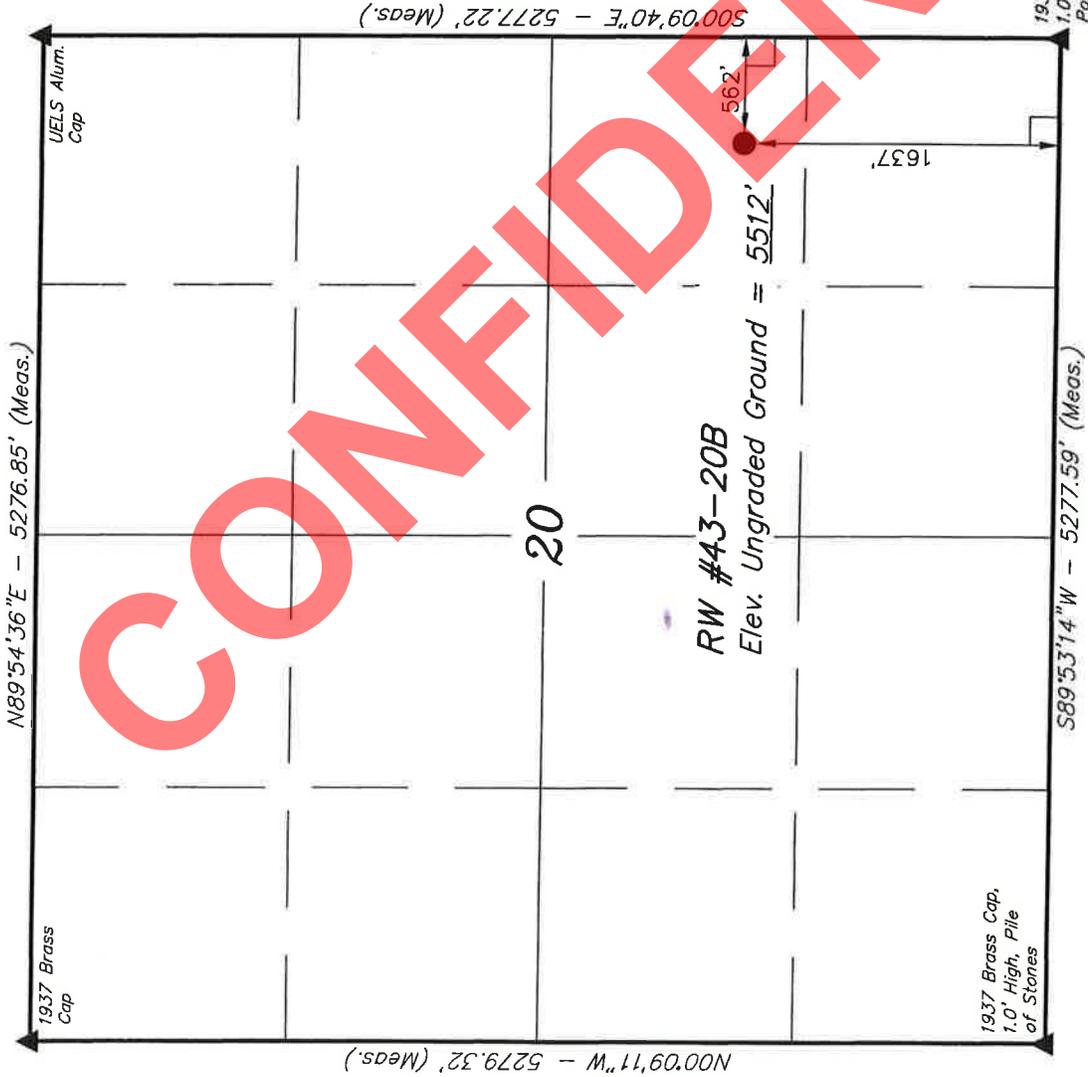
Well location, RW #43-20B, located as shown in the NE 1/4 SE 1/4 of Section 20, T7S, R23E, S.L.B.&M., Uintah County, Utah.

BASIS OF ELEVATION

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

BASIS OF BEARINGS

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



CERTIFICATE
 THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.
 [Signature]
 REGISTERED LAND SURVEYOR
 REGISTRATION NO. 161319
 STATE OF UTAH

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

SCALE	1" = 1000'	DATE SURVEYED:	01-12-11	DATE DRAWN:	01-31-11
PARTY	A.F. J.C. J.I.	REFERENCES	G.L.O. PLAT		
WEATHER	COOL	FILE	QEP ENERGY COMPANY		

LEGEND:

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

LATITUDE = 40°11'32.22"	(NAD 83)	(40.192283)
LONGITUDE = 109°20'36.87"	(109.343575)	
LATITUDE = 40°11'32.35"	(NAD 27)	(40.192319)
LONGITUDE = 109°20'34.41"	(109.342892)	

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RW #43-20B

LOCATED IN UINTAH COUNTY, UTAH
SECTION 20, T7S, R23E, S.L.B.&M.

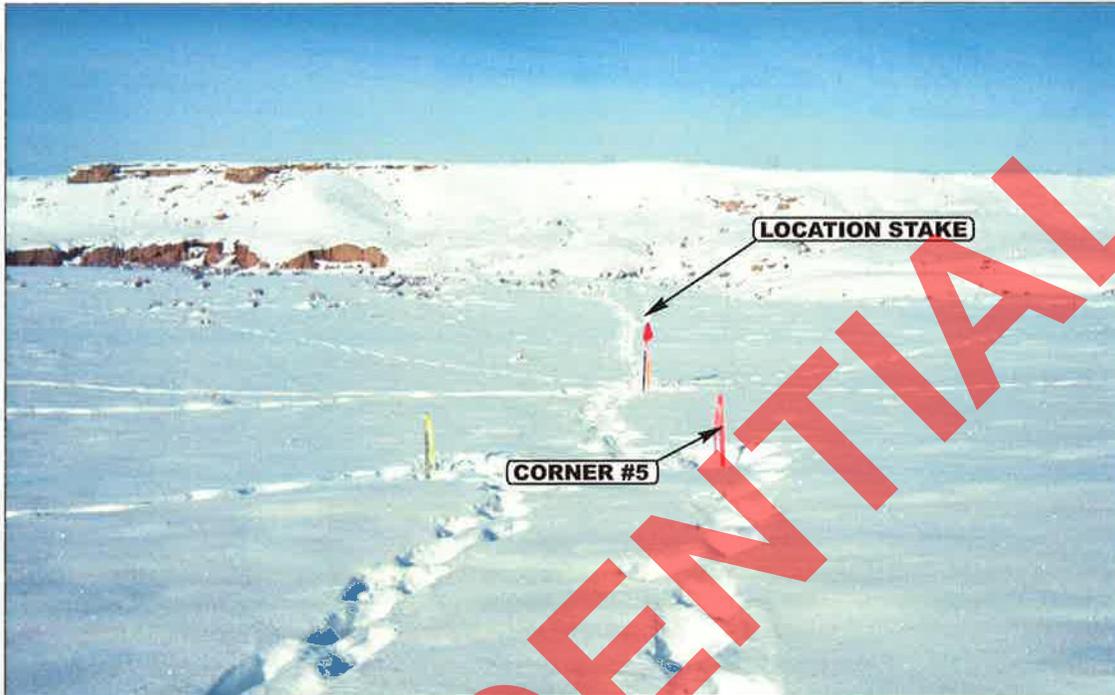


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHWESTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: NORTHERLY



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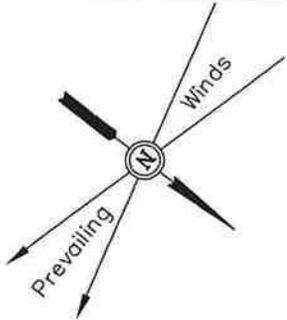
LOCATION PHOTOS	01	13	11	PHOTO
	MONTH	DAY	YEAR	
TAKEN BY: A.F.	DRAWN BY: J.J.		REVISED: 00-00-00	

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LOCATION LAYOUT FOR
RW #43-20B
SECTION 20, T7S, R23E, S.L.B.&M.
1637' FSL 562' FEL

FIGURE #1

SCALE: 1" = 60'
DATE: 01-31-11
DRAWN BY: J.I.



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

CONSTRUCT DIVERSION DITCH

Proposed Access Road
Install 24" CMP

Topsoil Stockpile



Reserve Pit Backfill & Spoils Stockpile

Round Corners as Needed

Cut/Fill Transition Line

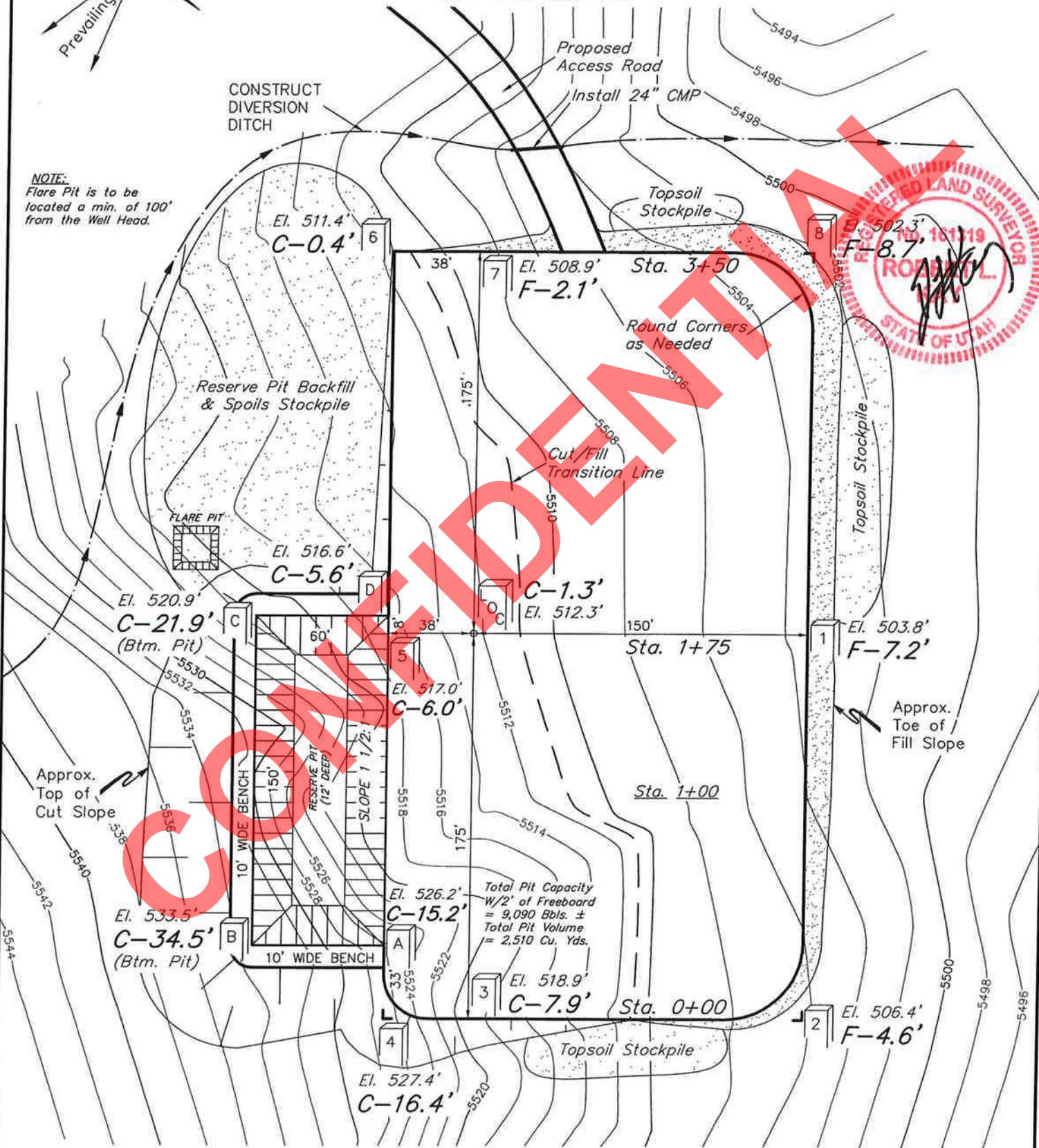


Topsoil Stockpile

Approx. Toe of Fill Slope

Approx. Top of Cut Slope

Total Pit Capacity
W/2' of Freeboard
= 9,090 Bbls. ±
Total Pit Volume
= 2,510 Cu. Yds.



Elev. Ungraded Ground At Loc. Stake = 5512.3'
FINISHED GRADE ELEV. AT LOC. STAKE = 5511.0'

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RECEIVED: Jun. 29, 2011

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FIGURE #2

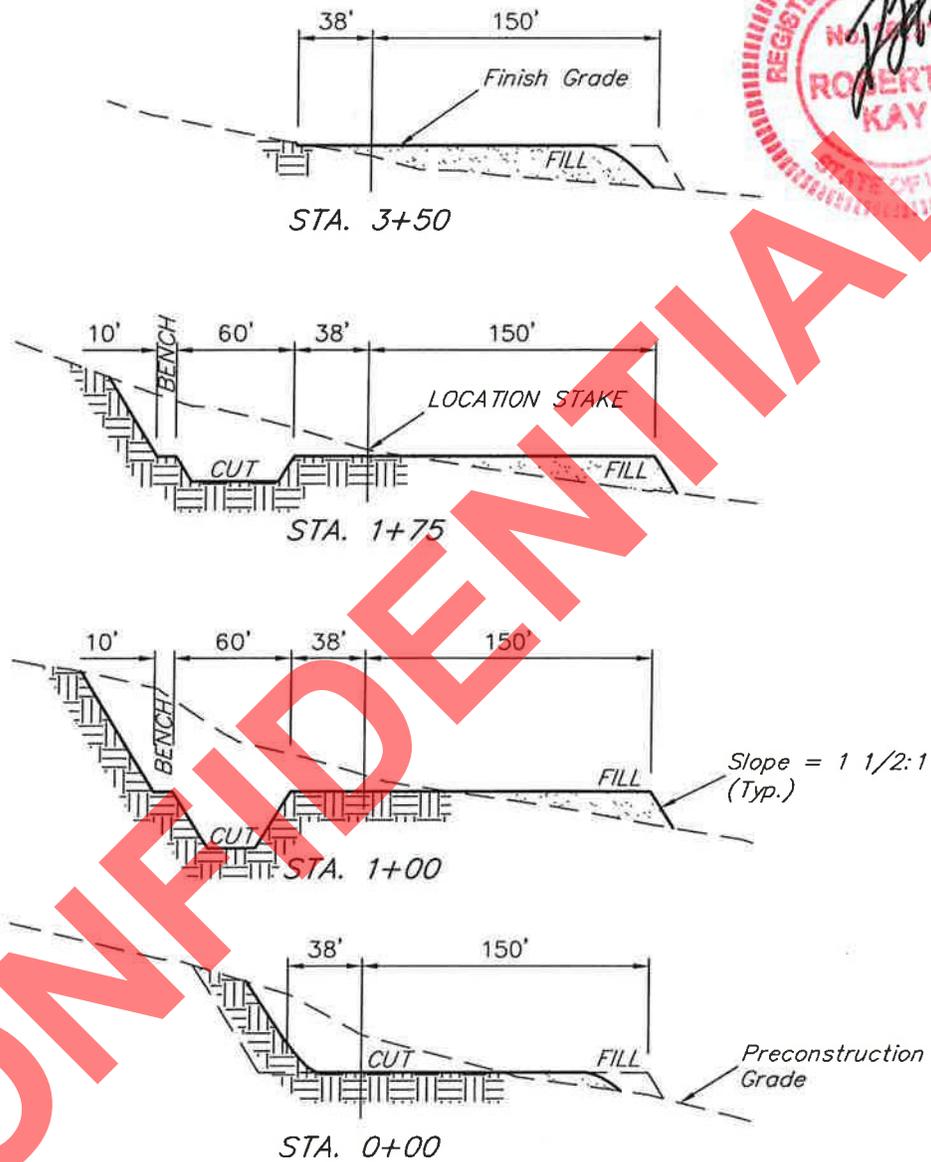
TYPICAL CROSS SECTIONS FOR

RW #43-20B

SECTION 20, T7S, R23E, S.L.B.&M.

1637' FSL 562' FEL

1" = 40'
X-Section Scale
1" = 100'
DATE: 01-31-11
DRAWN BY: J.I.



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NOTE:

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

APPROXIMATE ACREAGES

WELL SITE DISTURBANCE	= ± 2.741 ACRES
ACCESS ROAD DISTURBANCE	= ± 1.052 ACRES
PIPELINE DISTURBANCE	= ± 1.791 ACRES
TOTAL	= ± 5.584 ACRES

* NOTE:
FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

(6") Topsoil Stripping	= 1,850 Cu. Yds.
Remaining Location	= 15,450 Cu. Yds.
TOTAL CUT	= 17,300 CU.YDS.
FILL	= 7,970 CU.YDS.

EXCESS MATERIAL	= 9,330 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 3,110 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	= 6,220 Cu. Yds.

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TYPICAL RIG LAYOUT FOR

RW #43-20B

SECTION 20, T7S, R23E, S.L.B.&M.

1637' FSL 562' FEL

FIGURE #3

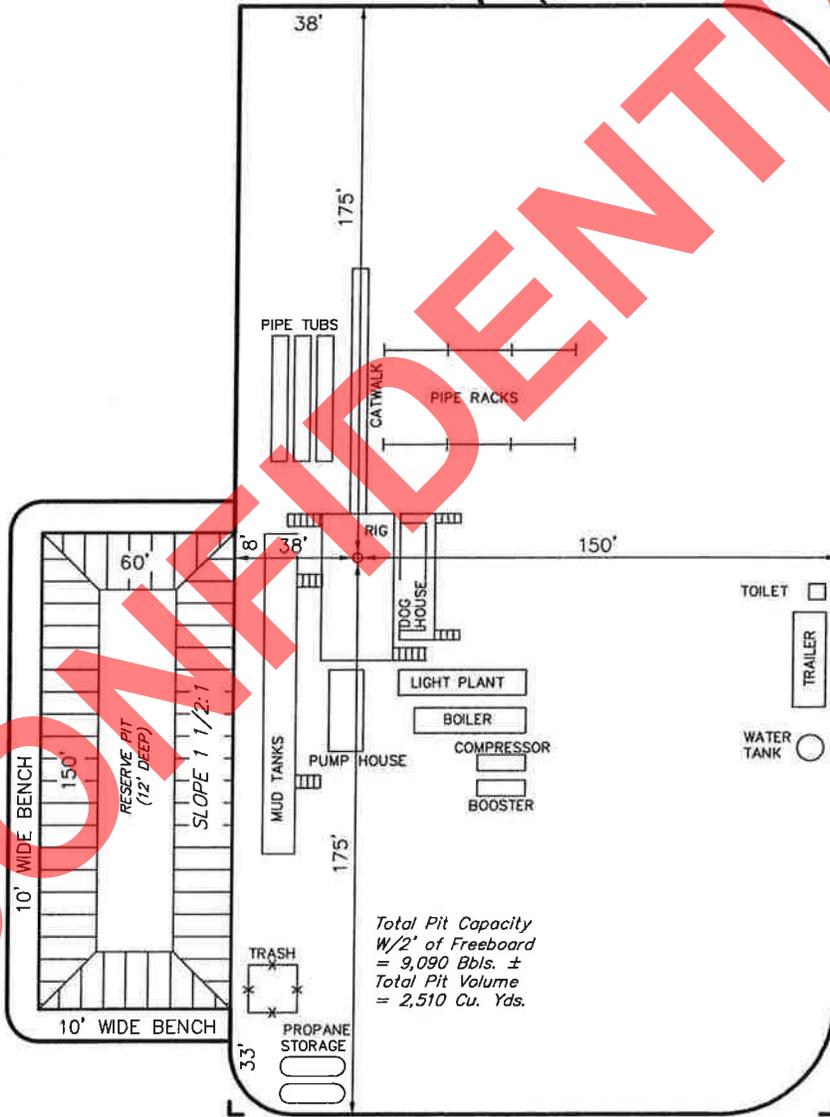
SCALE: 1" = 60'

DATE: 01-31-11

DRAWN BY: J.I.



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



Total Pit Capacity
W/2' of Freeboard
= 3,090 Bbls. ±
Total Pit Volume
= 2,510 Cu. Yds.

QEP ENERGY COMPANY

INTERIM RECLAMTION PLAN FOR

RW #43-20B

SECTION 20, T7S, R23E, S.L.B.&M.

1637' FSL 562' FEL

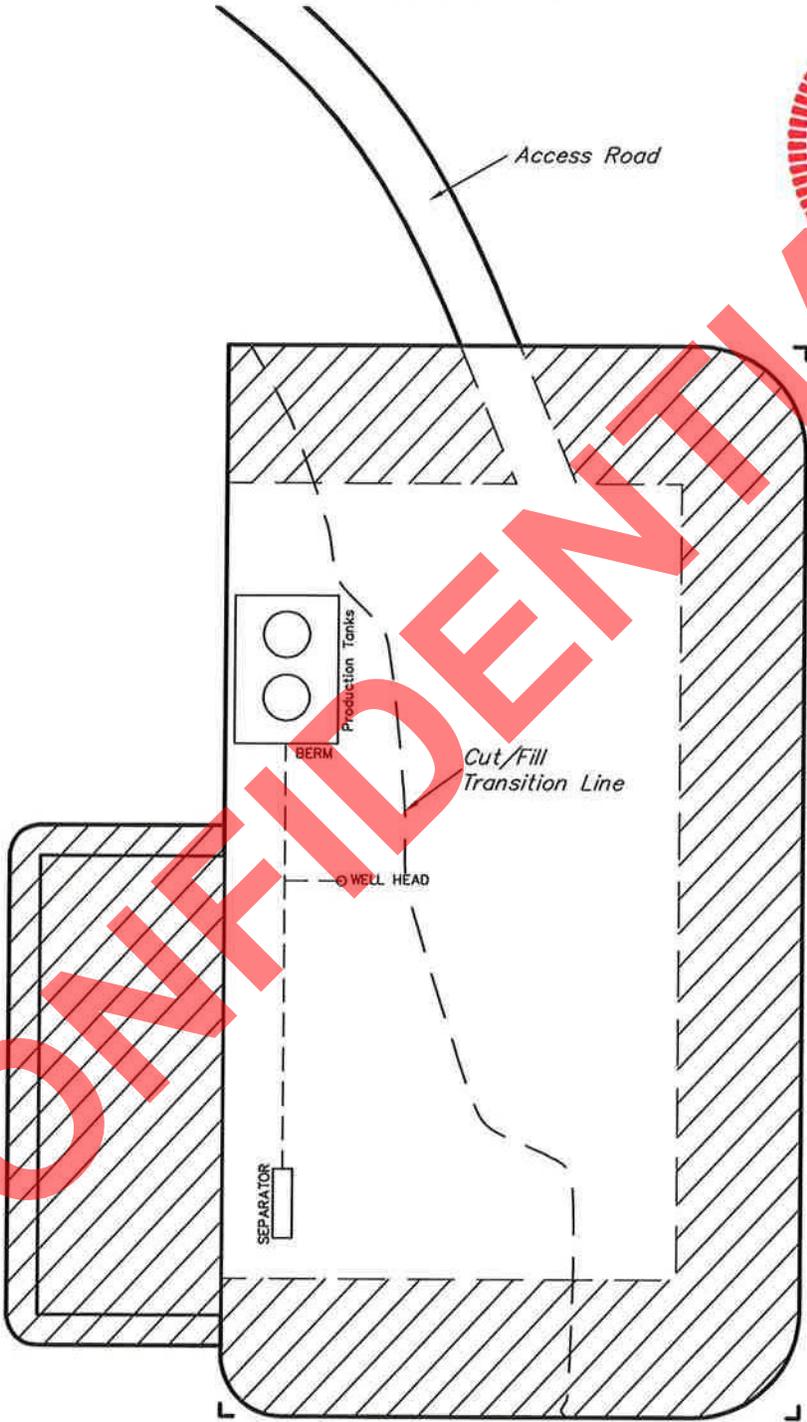
FIGURE #4

SCALE: 1" = 60'

DATE: 01-31-11

DRAWN BY: J.I.

REV.: 06-27-11 J.I.



CONVEYANCE

APPROXIMATE ACREAGES
UN-RECLAIMED = ± 0.903 ACRES

 INTERIM RECLAMATION

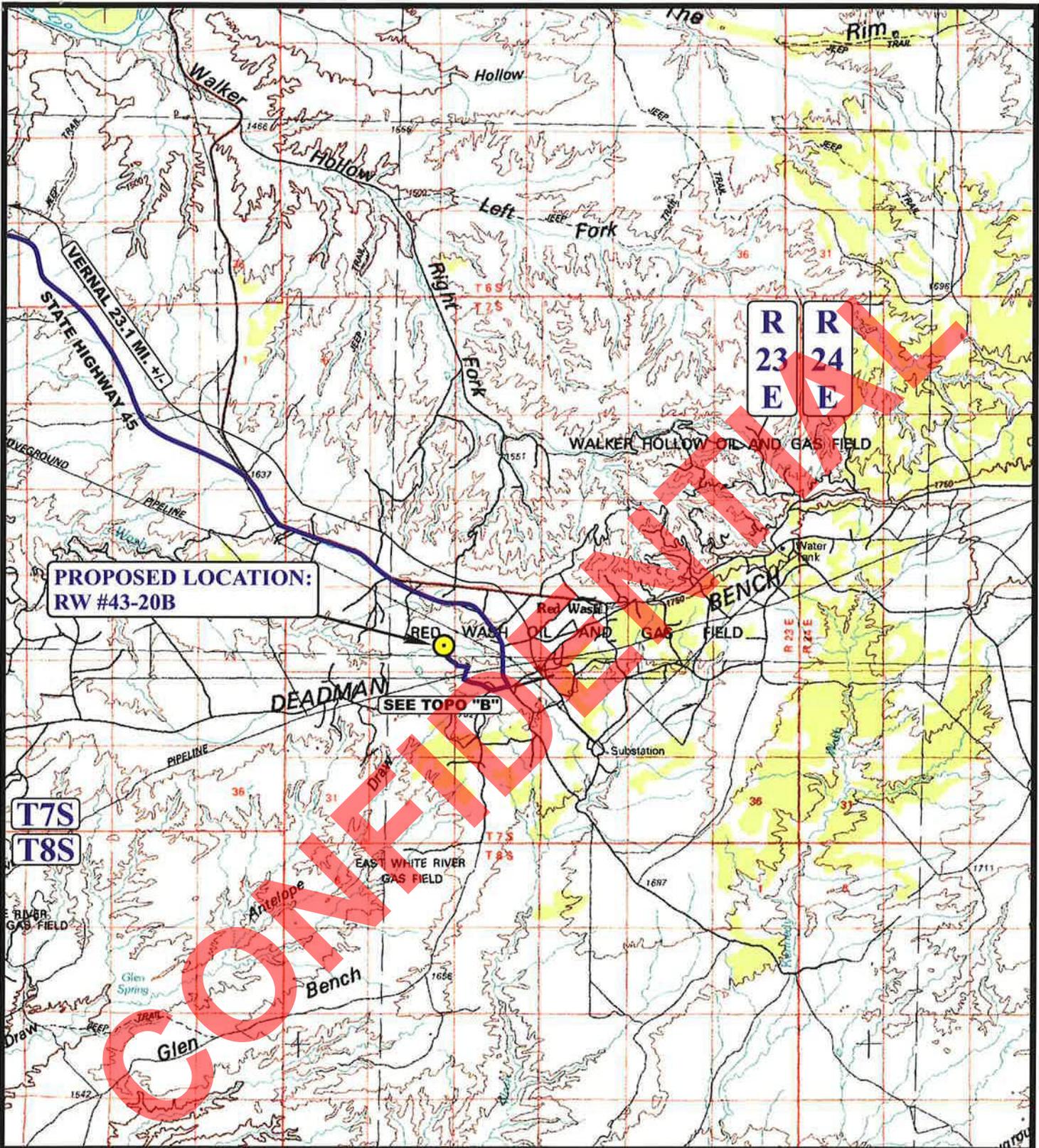
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QEP ENERGY COMPANY
RW #43-20B
SECTION 20, T7S, R23E, S.L.B.&M.

PROCEED IN AN EASTERLY, THEN SOUTHERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 3.9 MILES TO THE JUNCTION OF STATE HIGHWAY 45; EXIT RIGHT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 19.2 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 0.2 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN RIGHT AND PROCEED IN A NORTHWESTERLY, THEN NORTHERLY DIRECTION APPROXIMATELY 0.5 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE WEST; TURN LEFT AND PROCEED IN A WESTERLY DIRECTION APPROXIMATELY 0.1 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE NORTHWEST; FOLLOW ROAD FLAGS IN A NORTHWESTERLY DIRECTION APPROXIMATELY 1,528' TO THE PROPOSED LOCATION

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

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**PROPOSED LOCATION:
RW #43-20B**

SEE TOPO "B"

T7S
T8S

R 23 E
R 24 E

LEGEND:
● PROPOSED LOCATION

QEP ENERGY COMPANY

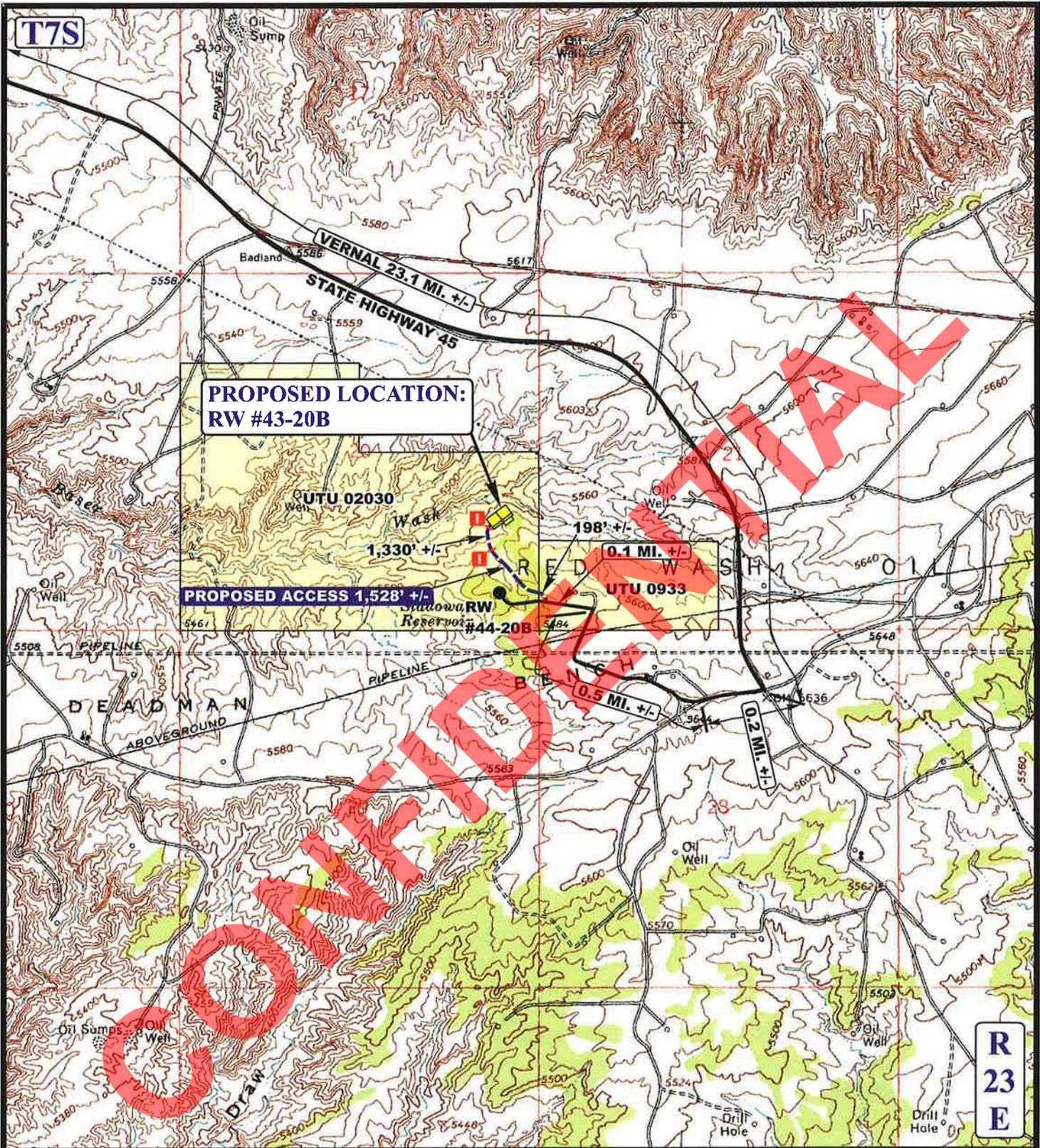
**RW #43-20B
SECTION 20, T7S, R23E, S.L.B.&M.
1637' FSL 562' FEL**

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85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813



TOPOGRAPHIC MAP
01 13 11
MONTH DAY YEAR
SCALE: 1:100,000 DRAWN BY: J.J. REVISED: 00-00-00





LEGEND:

- EXISTING ROAD
- PROPOSED ACCESS ROAD
- 24" CMP REQUIRED

QEP ENERGY COMPANY

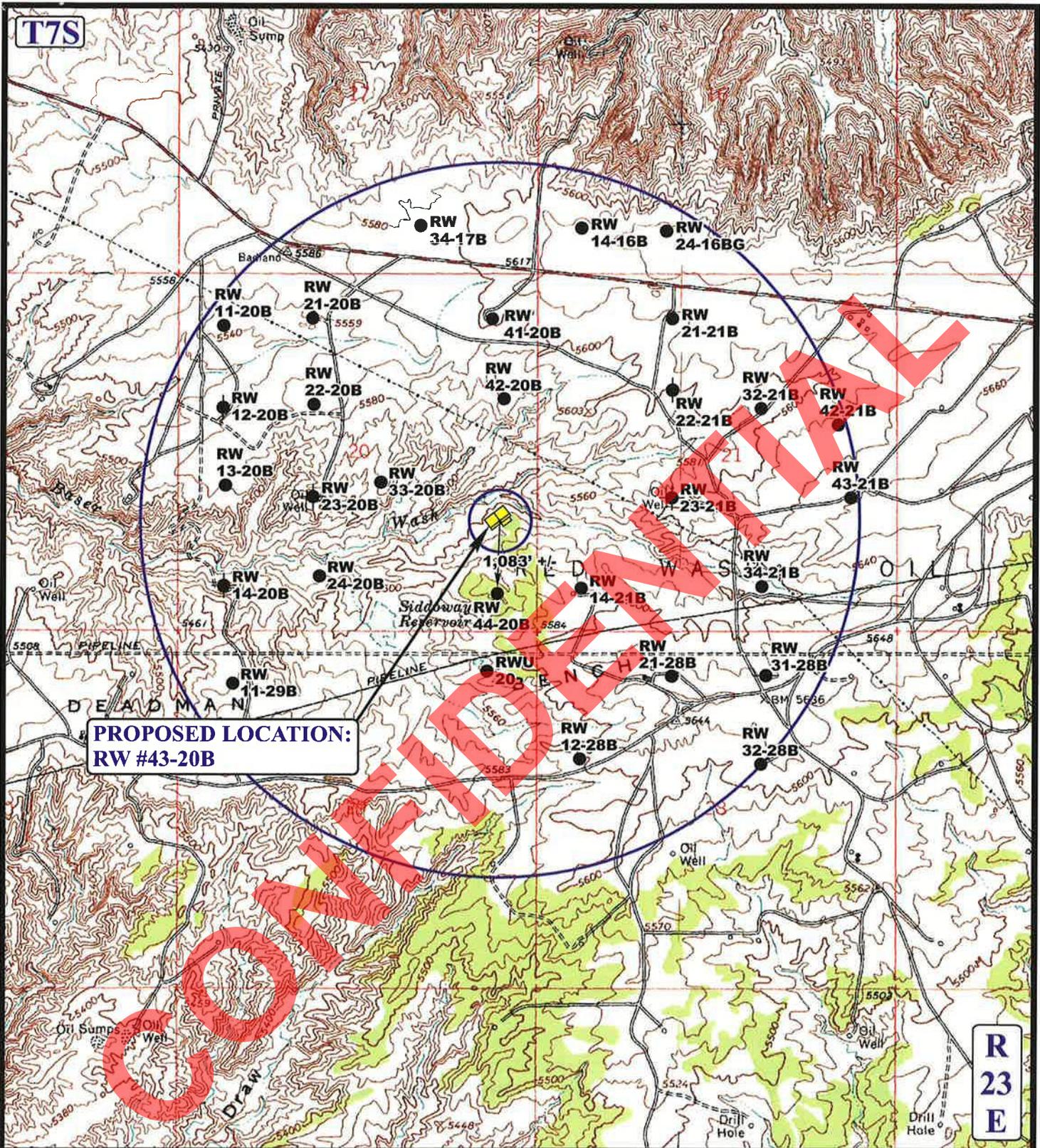
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TOPOGRAPHIC MAP **01 13 11**
 MONTH DAY YEAR
 SCALE: 1" = 2000' DRAWN BY: J.J. REVISED: 00-00-00

B
TOPO



**PROPOSED LOCATION:
RW #43-20B**

LEGEND:

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



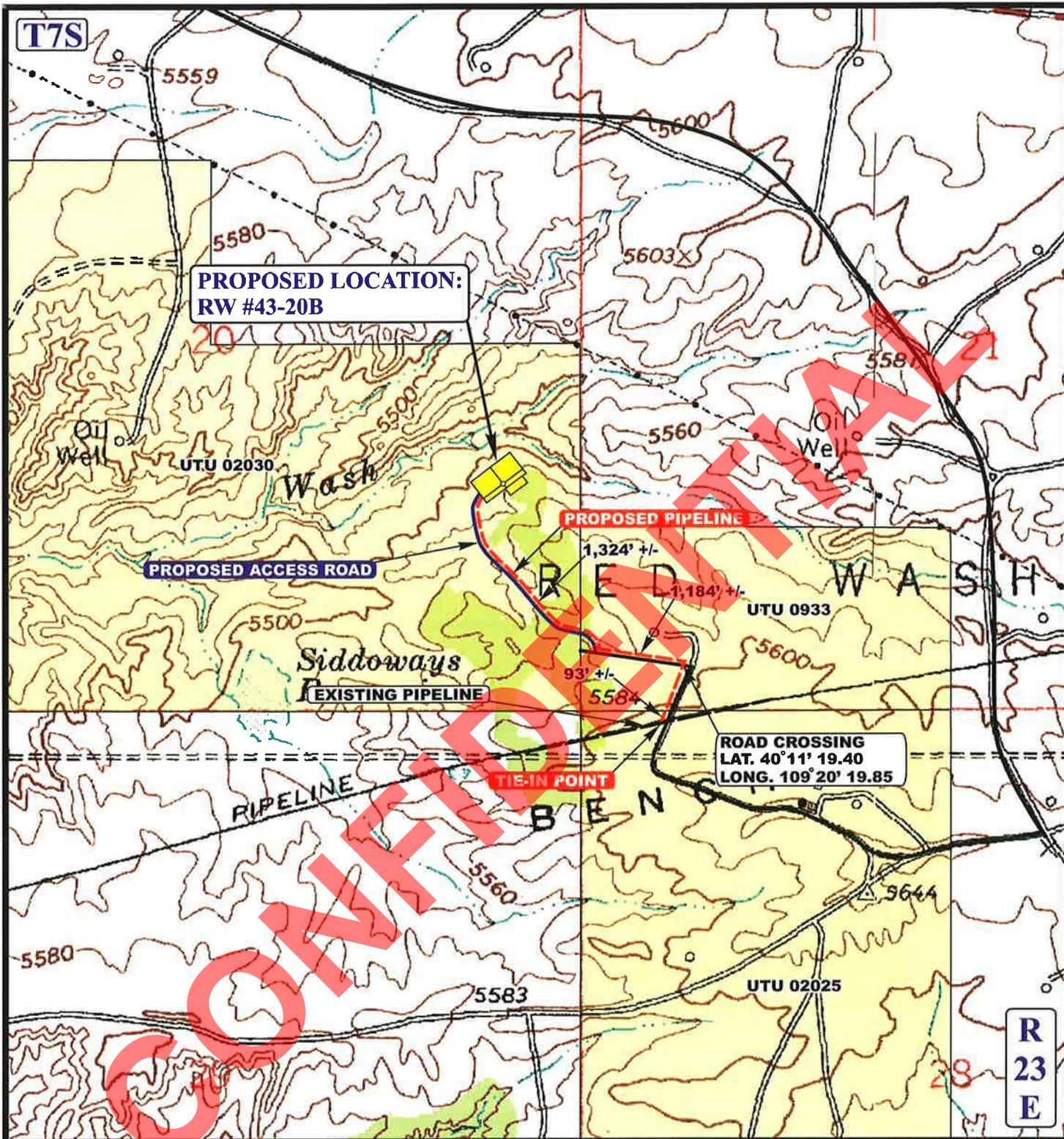
QEP ENERGY COMPANY

**RW #43-20B
SECTION 20, T7S, R23E, S.L.B.&M.
1637' FSL 562' FEL**

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

TOPOGRAPHIC MAP
 01 13 11
 MONTH DAY YEAR
 SCALE: 1" = 2000' DRAWN BY: J.J. REVISED: 00-00-00

C
TOPO



APPROXIMATE TOTAL PIPELINE DISTANCE = 2,601' +/-

LEGEND:

-  PROPOSED ACCESS ROAD
-  EXISTING PIPELINE
-  PROPOSED PIPELINE



QEP ENERGY COMPANY

RW #43-20B
SECTION 20, T7S, R23E, S.L.B.&M.
1637' FSL 562' FEL



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 85 South 200 East Vernal, Utah 84078
 (435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC
MAP

01 13 11
 MONTH DAY YEAR

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



QEP ENERGY COMPANY

REFERENCE MAP: AREA OF VEGETATION
RW #43-20B
LOCATED IN UINTAH COUNTY, UTAH
SECTION 20, T7S, R23E, S.L.B.&M.



PHOTO: VIEW FROM BEGINNING OF REFERENCE AREA

NOTE:

BEGINNING OF REFERENCE AREA

UTM NORTHING: 14600297.341

UTM EASTING: 2102905.858

LATITUDE: 40.192031

LONGITUDE: -109.344669

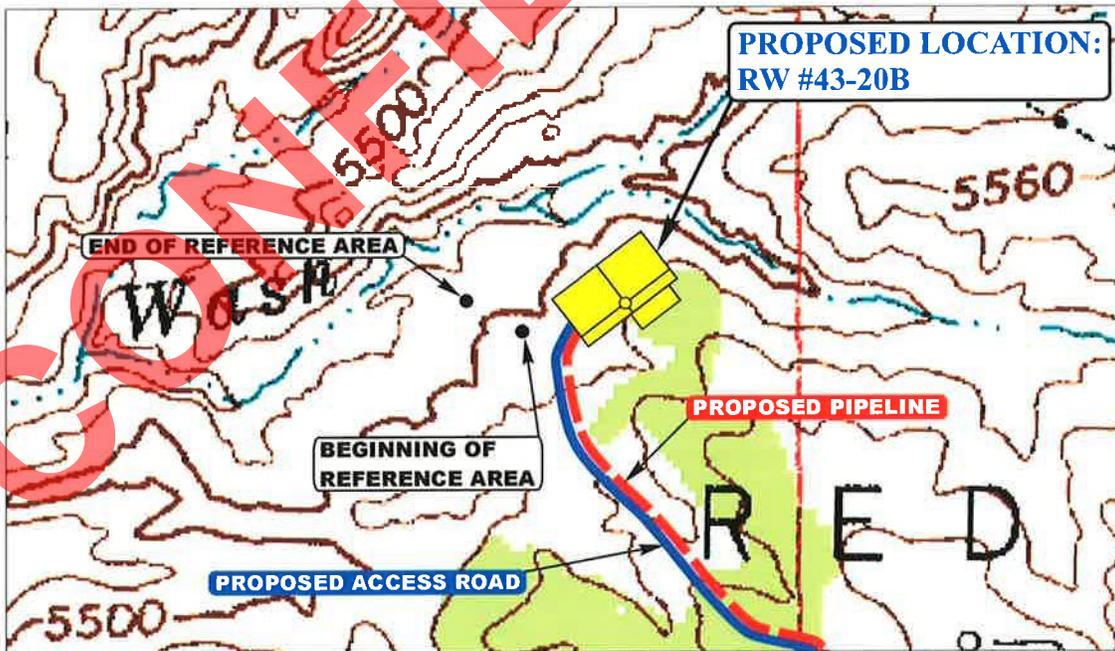
END OF REFERENCE AREA

UTM NORTHING: 14600392.225

UTM EASTING: 2102730.255

LATITUDE: 40.192300

LONGITUDE: -109.345292



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

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

WEED DATA SHEET

PROJECT NAME: RW 43-20B
 SURVEYOR: Stephanie Tomkinson

DATE: 6-8-11

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

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

No noxious weeds on location.

***Cover Class- estimated percent cover, by species, of the infestation**

- 0 = No weeds found
- 1 = Less than 1% (trace)
- 2 = One to five % (low - occasional plants)
- 3 = Six to twenty-five % (moderate - scattered plants)
- 4 = Twenty-five to 100 % (high - fairly dense)

***Pattern - pattern of the infestation**

- 0 = No weeds found
- 1 = Single plant or small area of many plants
- 2 = Linear
- 3 = Patchy
- 4 = Block

***Infestation Size - number of estimated acres of the infestation**

- 0 = No weeds found
- 1 = Less than one acre
- 2 = One to five acres
- 3 = five or more acres

Cheatgrass canopy cover: 4

Russian thistle canopy cover: 2

Halogeton canopy cover: 2

Kochia canopy cover: 1

*PJ
 N+T
 globe
 rabbit
 galletta
 pepper weed
 shade
 cactus
 daisy
 lupine
 gardner
 sego*

Additional Operator Remarks

QEP Energy Company proposes drill a vertical gas well to a depth of 11, 254' to test the Mesa Verde Formation. If productive, casing will be run and the well completed. If dry, the well will be plugged and abandoned as per BLM and State of Utah requirements.

Please see Onshore Order No. 1.

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

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

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

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**QEP ENERGY COMPANY
RW 43-20B
1637' FSL 562' FEL
NESE SECTION 20, T7S, R23E
UINTAH COUNTY, UTAH
LEASE # UTU-02030**

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

An onsite inspection was conducted for the RW 43-20B on June 8, 2011. Weather conditions were sunny at the time of the onsite. In attendance at the inspection were the following individuals:

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

1. Existing Roads:

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

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

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

2. Planned Access Roads:

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

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

There will be a new access road approximately 1,528' in length, containing approximately 1.05 acres. The access road will be crowned and ditched with a running surface of 18 feet and a maximum disturbed width of 30'. Any additional disturbance required due to intersections or sharp curves will be discussed at the on-site and approved by the BLM/WFO AO. Graveling or capping the roadbed will be performed as necessary to provide a well constructed safe road. Should conditions warrant, rock, gravel or culverts will be installed as needed. Surface disturbance and vehicular traffic will be limited to the approved location and access route or, as proposed by the Operator.

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

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

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

Please refer to Topo Map C.

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

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

The following guidelines will apply if the well is productive.

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

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

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

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

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

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

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

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

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

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

The proposed pipeline will be a surface 10" or smaller, 2,601' in length, containing 1.79 acres.

Road Crossings

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

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

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

5. Location and Type of Water Supply:

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

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

6. Source of Construction Materials:

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

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

Any gravel will be obtained from a commercial source.

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

7. Methods of Handling Waste Materials:

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

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

Drilling fluids including salts and chemicals will be contained in the reserve pit. Upon termination of drilling and completion operations, the liquid contents of the reserve pit will be used at the next drill site or will be removed and disposed of at an approved waste disposal facility within 6 months after drilling is terminated. Immediately upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1.

Unless specified in the site specific APD, the reserve pit will be constructed on the location and will not be located within natural drainages, where a flood hazard exists or surface runoff will or damage the pit walls. The reserve pit will be constructed so that it will not leak, break, or allow discharge of liquids.

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

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

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

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

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

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

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

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

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

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

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

8. **Ancillary Facilities:**

None anticipated.

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

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

Please see the attached diagram rig orientation, parking areas, and access roads, as well as the location of the following:

The reserve pit.

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

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

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

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

10. Fencing Requirements:

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

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

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

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

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

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

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

The reserve pit will be fenced on three (3) sides during drilling operations. The fourth side will be put in place when the rig moves off location. The pit will be

fenced and maintained until it is backfilled. If drilling operations does not commence within 3 days, the fourth side of the fence will be installed

11. Plans for Reclamation of the Surface:

Please refer to QEP Energy Company Uinta Basin Division Reclamation Plan

Site Specific Procedures:

Site Specific Reclamation Summary:

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

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

The disturbed area will be backfilled with subsoil.

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

Water courses and drainages will be restored.

Erosion control devices will be installed where needed.

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

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

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

It was determined and agreed upon that there is 6" inches of top soil.

12. Surface Ownership:

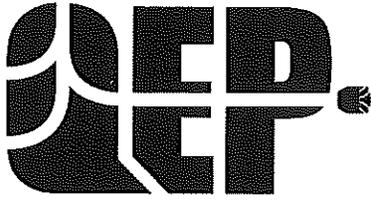
Bureau of Land Management
170 South 500 East
Vernal, Utah 84078
(435) 781-4400

13. Other Information:

A Class III archaeological survey was conducted by Montgomery Archaeology Consultants. A copy of this report was submitted on May 4, 2011, **Moac Report No. 11-009** by Montgomery Archaeology Consultants. Cultural resource clearance was recommended for this location.

A Class III paleontological survey was conducted by Intermountain Paleo Consulting. A copy of this report was submitted on June 3, 2011 IPC # 11-22 by Stephen D. Sandau. The inspection resulted in the location of no fossil resources. However, if vertebrate fossil(s) are found during construction a paleontologist should be immediately notified. QEP will provide Paleo monitor if needed.

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QEP Energy Company

11002 East 17500 South
Vernal, UT 84078
Telephone 435-781-4331
Fax 435-781-4395

Jan.Nelson@qepres.com

June 28, 2011

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

To Whom It May Concern:

In reference to the State Oil and Gas Conservation rule R649-3-3 QEP Energy Company RW 43-20B is an exception to this rule due to topography.

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

Thank you,

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

Jan Nelson
Permit Agent

Lessee's or Operator's Representative & Certification:

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

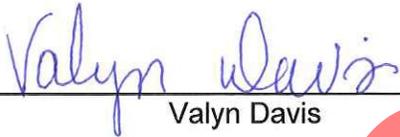
Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

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

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

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operations; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.


Valyn Davis

6/28/2011
Date

CONFIDENTIAL

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

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

IN REPLY REFER TO:

3160
(UT-922)

June 29, 2011

Memorandum

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

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

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

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

Michael L. Coulthard

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

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

MCoulthard:mc:6-29-11

RECEIVED: Jun. 29, 2011

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 6/28/2011

API NO. ASSIGNED: 43047517210000

WELL NAME: RW 43-20B

OPERATOR: QEP ENERGY COMPANY (N3700)

PHONE NUMBER: 435 781-4369

CONTACT: Valyn Davis

PROPOSED LOCATION: NESE 20 070S 230E

Permit Tech Review:

SURFACE: 1637 FSL 0562 FEL

Engineering Review:

BOTTOM: 1637 FSL 0562 FEL

Geology Review:

COUNTY: Uintah

LATITUDE: 40.19231

LONGITUDE: -109.34288

UTM SURF EASTINGS: 641061.00

NORTHINGS: 4450208.00

FIELD NAME: RED WASH

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU02030

PROPOSED PRODUCING FORMATION(S): MESA VERDE

SURFACE OWNER: 1 - Federal

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

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

LOCATION AND SITING:

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

Comments: Presite Completed

Stipulations: 4 - Federal Approval - dmason



GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: RW 43-20B
API Well Number: 43047517210000
Lease Number: UTU02030
Surface Owner: FEDERAL
Approval Date: 6/29/2011

Issued to:

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

Authority:

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

Duration:

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

General:

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

Conditions of Approval:

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

Notification Requirements:

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

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

OR

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

Reporting Requirements:

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

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

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

Approved By:

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

For John Rogers
Associate Director, Oil & Gas

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

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

JUN 28 2011

APPLICATION FOR PERMIT TO DRILL OR REENTER **BLM**

CONFIDENTIAL

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU02030
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator QEP ENERGY COMPANY Contact: VALYN DAVIS E-Mail: Valyn.Davis@qepres.com		7. If Unit or CA Agreement, Name and No. UTU63010X
3a. Address 11002 EAST 17500 SOUTH VERNAL, UT 84078	3b. Phone No. (include area code) Ph: 435-781-4369 Fx: 435-781-4395	8. Lease Name and Well No. RW 43-20B
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NESE 1637FSL 562FEL 40.192283 N Lat, 109.343575 W Lon At proposed prod. zone NESE 1637FSL 562FEL 40.192283 N Lat, 109.343575 W Lon		9. API Well No. 43-047-51721
14. Distance in miles and direction from nearest town or post office* 24	11. Sec., T., R., M., or Blk. and Survey or Area Sec 20 T7S R23E Mer SLB SME: BLM	10. Field and Pool, or Exploratory RED WASH
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 562	12. County or Parish UINTAH	13. State UT
16. No. of Acres in Lease 1875.80	17. Spacing Unit dedicated to this well 40.00	
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 1083	19. Proposed Depth 11254 MD 11254 TVD	20. BLM/BIA Bond No. on file ESB000024
21. Elevations (Show whether DF, KB, RT, GL, etc.) 5512 GL	22. Approximate date work will start 11/01/2011	23. Estimated duration 30 DAYS

24. Attachments

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

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

25. Signature (Electronic Submission)	Name (Printed/Typed) VALYN DAVIS Ph: 435-781-4369	Date 06/28/2011
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Title
REGULATORY AFFAIRS ANALYST

Approved by (Signature) 	Name (Printed/Typed) Jerry Kenczka	Date NOV 30 2011
-----------------------------	---------------------------------------	---------------------

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 #111778 verified by the BLM Well Information System
For QEP ENERGY COMPANY, sent to the Vernal
Committed to AFMSS for processing by ROBIN R. HANSEN on 07/01/2011 (11RRH3189AE)

RECEIVED

DEC 14 2011

DIV. OF OIL, GAS & MINING

UDOGM

NOTICE OF APPROVAL BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

11SXSD0682AE

NOS 5/26/2011

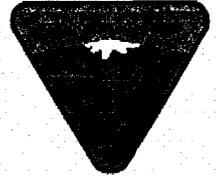


UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	QEP ENERGY COMPANY	Location:	NESE, SEC. 20 T7S R23E SLM
Well No:	RW 43-20B	Lease No:	UTU-02030
API No:	43-047-51721	Agreement:	RED WASH UNIT

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

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

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

NOTIFICATION REQUIREMENTS

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- In the event historic or archaeological resources are uncovered during construction, work will stop immediately and the appropriate BLM AO will be notified.
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- QEP has agreed not to construct or drill during the following dates, unless otherwise determined by the BLM wildlife biologist.

Well Name	Burrowing Owl March 1 to August 31	Red Tailed Hawk March 1 to August 15	Ferruginous Hawk March 1 to August 1
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All internal combustion equipment would be kept in good working order.

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Open burning of garbage or refuse would not occur at well sites or other facilities.

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Low bleed pneumatics would be installed on separator dump valves and other controllers. The use of low bleed pneumatics would result in a lower emission of VOCs.

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Well site telemetry would be utilized as feasible for production operations.

- Following well plugging and abandonment, the location, access roads, pipelines, and other facilities shall be reclaimed. All disturbed surfaces shall be reshaped to approximate the original contour; the top soil respread over the surface; and, the surface revegetated. The surface of approved staging areas where construction activities did not occur may require disking or ripping and reseeding.
- The best method to avoid entrainment is to pump from an off-channel location – one that does not connect to the river during high spring flows. An infiltration gallery constructed in a BLM and Service approved location is best.
- If the pump head is located in the river channel where larval fish are known to occur, the following measures apply:
 - do not situate the pump in a low-flow or no-flow area as these habitats tend to concentrate larval fishes;
 - limit the amount of pumping, to the greatest extent possible, during that period of the year when larval fish may be present (April 1 to August 31); and
 - limit the amount of pumping, to the greatest extent possible, during the pre-dawn hours as larval drift studies indicate that this is a period of greatest daily activity.
- Screen all pump intakes with 3/32" mesh material.
- Approach velocities for intake structures will follow the National Marine Fisheries Service's document "Fish Screening Criteria for Anadromous Salmonids". For projects with an in-stream intake that operate in stream reaches where larval fish may be present, the approach velocity will not exceed 0.33 feet per second (ft/s).
- Report any fish impinged on the intake screen to the Service (801.975.3330) and the Utah Division of Wildlife Resources:

Northeastern Region
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Phone: (435) 781-9453

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SITE SPECIFIC DOWNHOLE COAs:

Site Specific Drilling Plan COA's:

1. Gamma ray Log shall be run from Total Depth to Surface.

Variations Granted:

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2. Blooie line discharge 100' from the well bore. Variance granted for blooie line discharge to be 50' to 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 truck/trailer mounted air compressors located 50' from the well bore.
4. In lieu of mud products on location, operator will fill a 400 bbl tank with water for the kill medium.
5. Automatic igniter. Variance granted for igniter, a diffuser will be used instead. Operator will mount a deflector at the end of the blooie line to change direction and reduce the velocity of the cuttings flow to the reserve pit.
6. Flare pit. Variance granted, there is no need of a flare during the drilling of the surface hole.

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

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.

- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid,

and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

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

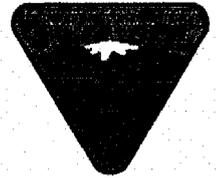


UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	QEP ENERGY COMPANY	Location:	NESE, SEC. 20 T7S R23E SLM
Well No:	RW 43-20B	Lease No:	UTU-02030
API No:	43-047-51721	Agreement:	RED WASH UNIT

OFFICE NUMBER: (435) 781-4400

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 - 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.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	
5. LEASE DESIGNATION AND SERIAL NUMBER: UTU02030	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL Gas Well	7. UNIT or CA AGREEMENT NAME: RED WASH
2. NAME OF OPERATOR: QEP ENERGY COMPANY	8. WELL NAME and NUMBER: RW 43-20B
3. ADDRESS OF OPERATOR: 11002 East 17500 South , Vernal, Ut, 84078	9. API NUMBER: 43047517210000
PHONE NUMBER: 303 308-3068 Ext	9. FIELD and POOL or WILDCAT: RED WASH
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1637 FSL 0562 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESE Section: 20 Township: 07.0S Range: 23.0E Meridian: S	COUNTY: UINTAH
	STATE: UTAH

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

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

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

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

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

Date: July 03, 2012

By:

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



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047517210000

API: 43047517210000

Well Name: RW 43-20B

Location: 1637 FSL 0562 FEL QTR NESE SEC 20 TWP 070S RNG 230E MER S

Company Permit Issued to: QEP ENERGY COMPANY

Date Original Permit Issued: 6/29/2011

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

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

Signature: Valyn Davis

Date: 6/28/2012

Title: Regulatory Affairs Analyst Representing: QEP ENERGY COMPANY

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU02030
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME: RED WASH
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: RW 43-20B
2. NAME OF OPERATOR: QEP ENERGY COMPANY	9. API NUMBER: 43047517210000
3. ADDRESS OF OPERATOR: 11002 East 17500 South , Vernal, Ut, 84078	PHONE NUMBER: 303 308-3068 Ext
9. FIELD and POOL or WILDCAT: RED WASH	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1637 FSL 0562 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESE Section: 20 Township: 07.0S Range: 23.0E Meridian: S	COUNTY: UINTAH
	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 4/1/2013 <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.

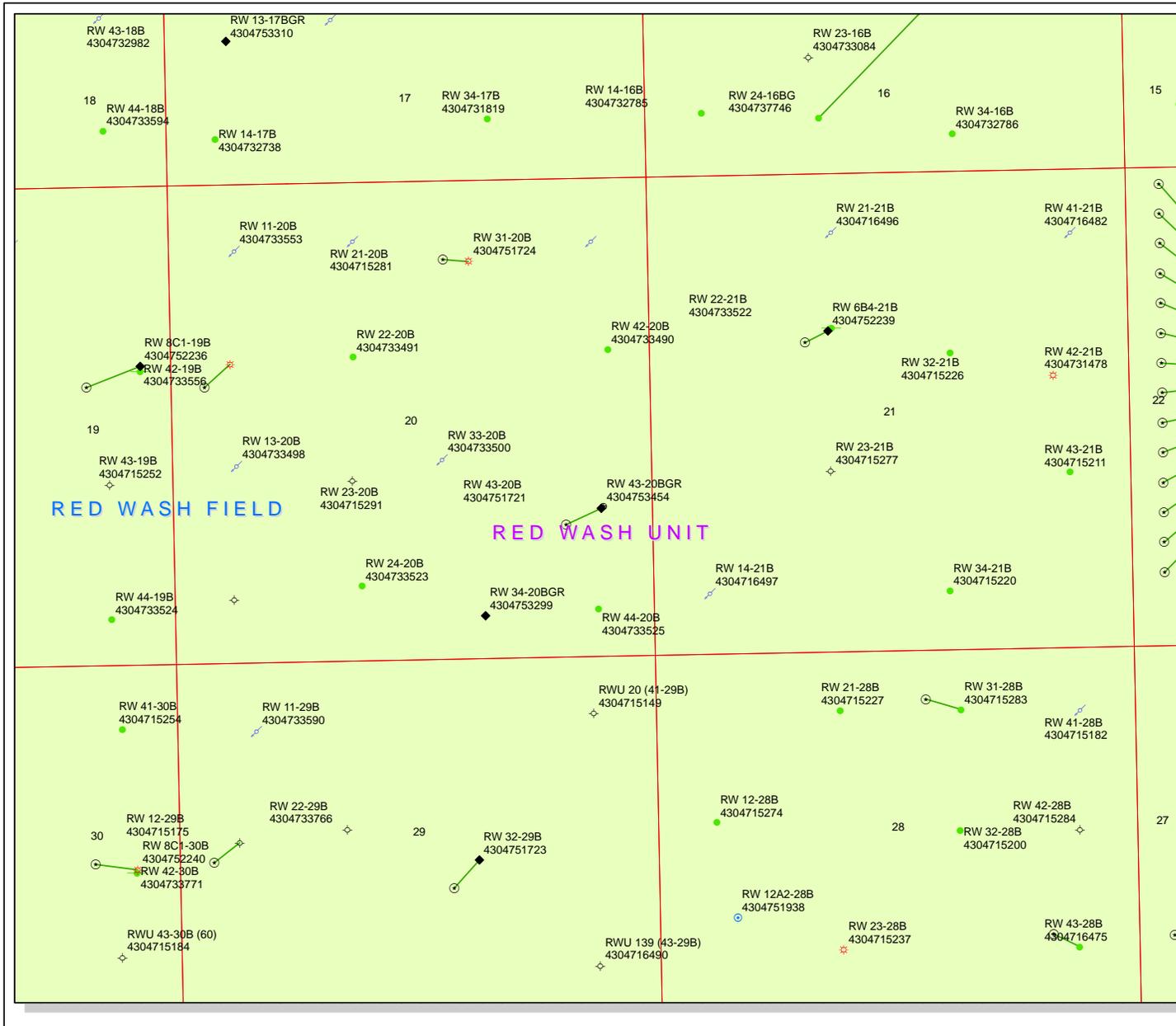
QEP ENERGY COMPANY REQUESTS TO CHANGE THE DRILLING PLAN ON THE ABOVE MENTIONED WELL: THE SURFACE HOLE WILL BE DRILLED WITH AIR, AIR/MIST, FOAM OR MUD DEPENDING ON HOLE CONDITIONS. DRILLING BELOW SURFACE CASING WILL BE WITH WATER BASED DRILLING FLUIDS CONSISTING PRIMARILY OF FRESH WATER, BENTONITE, LIGNITE, CAUSTIC, LIME SODA ASH AND POLYMER. NO CHROMATES WILL BE USED. IT IS NOT INTENDED TO USE OIL IN THE MUD, HOWEVER, IN THE EVENT IT IS USED, OIL CONCENTRATION WILL BE LESS THAN 4% BY VOLUME. MAXIMUM ANTICIPATED MUD WEIGHT IS 9.5 PPG. QEP REQUESTS TO SET 90' OF 14" CONDUCTOR PIPE. QEP WOULD LIKE TO OPTIMIZE THE BOTTOM HOLE SPACING OF THE MESA VERDE DEVELOPMENT, THEREFORE **QEP WOULD LIKE TO DRILL THIS WELL WITH A SMALL STEP OUT** OF +/-427'. BOTTOM HOLE FOOTAGES ARE: 1462' FSL, 952' FEL, NESE, SEC. 20, T7S, R23E, 40.191800 LAT, 109.344969 LON. QEP REQUESTS TO CHANGE THE TD TO 11,219.

Approved by the Utah Division of Oil, Gas and Mining

Date: December 27, 2012

By:

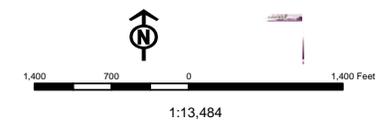
NAME (PLEASE PRINT) Jan Nelson	PHONE NUMBER 435 781-4331	TITLE Permit Agent
SIGNATURE N/A		DATE 12/4/2012



API Number: 4304751721
Well Name: RW 43-20B
Township T07.0S Range R23.0E Section 20
Meridian: SLBM
Operator: QEP ENERGY COMPANY

Map Prepared:
 Map Produced by Diana Mason

Units STATUS	Wells Query Status
ACTIVE	APD - Approved Permit
EXPLORATORY	DRL - Spudded (Drilling Commenced)
GAS STORAGE	GIW - Gas Injection
NF PP OIL	GS - Gas Storage
NF SECONDARY	LOC - New Location
P1 OIL	OPS - Operation Suspended
PP GAS	PA - Plugged/Abandoned
PP GEOTHERMAL	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/Oil
TERMINATED	

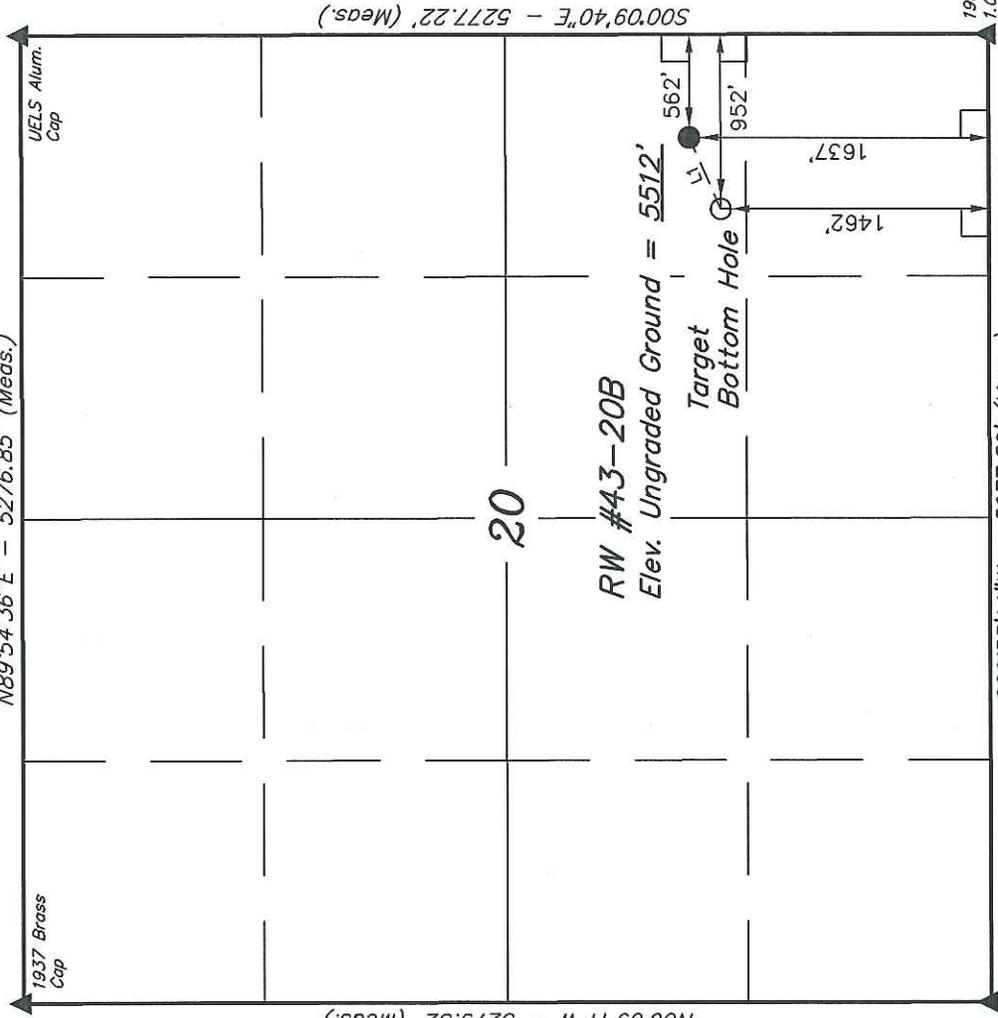


T7S, R23E, S.L.B.&M.

QEP ENERGY COMPANY

Well location, RW #43-20B, located as shown in the NE 1/4 SE 1/4 of Section 20, T7S, R23E, S.L.B.&M., Uintah County, Utah.

N89°54'36"E - 5276.85' (Meas.)



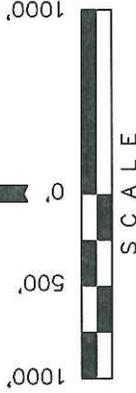
BASIS OF ELEVATION

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

BASIS OF BEARINGS

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

LINE	DIRECTION	LENGTH
L1	S65°40'54\"W	427.46'



SCALE

CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PARTY 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 B. KAY
 REGISTERED LAND SURVEYOR
 REGISTRATION NO. 161319
 STATE OF UTAH

REV: 10-10-12 K.O.

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

SCALE	DATE SURVEYED:	DATE DRAWN:
1" = 1000'	01-12-11	01-31-11
PARTY	REFERENCES	
A.F. J.C. J.I.	G.L.O. PLAT	
WEATHER	FILE	
COOL	QEP ENERGY COMPANY	

LEGEND:

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

NAD 83 (TARGET BOTTOM HOLE)	NAD 83 (SURFACE LOCATION)
LATITUDE = 40°11'30.48" (40.191800)	LATITUDE = 40°11'32.22" (40.192283)
LONGITUDE = 109°20'41.89" (109.344969)	LONGITUDE = 109°20'36.87" (109.343575)
NAD 27 (TARGET BOTTOM HOLE)	NAD 27 (SURFACE LOCATION)
LATITUDE = 40°11'30.61" (40.191836)	LATITUDE = 40°11'32.35" (40.192319)
LONGITUDE = 109°20'39.44" (109.344289)	LONGITUDE = 109°20'34.41" (109.342892)



QEP Energy Company

QEP ENERGY (UT)

Red Wash

RW 43-20B

RW 43-20B

Original Hole

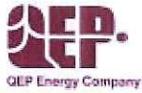
Plan: Plan ver.0

Standard Planning Report

10 September, 2012



QEP Energy Company



QEP Resources, Inc.
Planning Report



Database:	EDMDB_QEP	Local Co-ordinate Reference:	Well RW 43-20B
Company:	QEP ENERGY (UT)	TVD Reference:	RKB @ 5527.00usft (AZTEC 950)
Project:	Red Wash	MD Reference:	RKB @ 5527.00usft (AZTEC 950)
Site:	RW 43-20B	North Reference:	True
Well:	RW 43-20B	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan ver.0		

Project	Red Wash		
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	RW 43-20B				
Site Position:		Northing:	7,246,026.052 usft	Latitude:	40.192283
From:	Lat/Long	Easting:	2,242,761.567 usft	Longitude:	-109.343575
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"	Grid Convergence:	1.38 °

Well	RW 43-20B					
Well Position	+N/-S	0.00 usft	Northing:	7,246,026.048 usft	Latitude:	40.192283
	+E/-W	0.00 usft	Easting:	2,242,761.567 usft	Longitude:	-109.343575
Position Uncertainty		0.00 usft	Wellhead Elevation:	5,511.00 usft	Ground Level:	5,511.00 usft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	9/10/2012	10.88	66.02	52,327

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	245.68

Plan Sections											
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		
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00		
1,453.86	9.08	260.91	1,451.96	-5.67	-35.43	2.00	2.00	0.00	260.91		
4,132.83	9.08	260.91	4,097.38	-72.44	-452.77	0.00	0.00	0.00	0.00		
4,737.97	0.00	0.00	4,700.00	-80.00	-500.00	1.50	-1.50	0.00	180.00		
8,804.97	0.00	0.00	8,767.00	-80.00	-500.00	0.00	0.00	0.00	0.00		
9,038.31	3.50	131.00	9,000.19	-84.67	-494.62	1.50	1.50	0.00	131.00		
11,319.37	3.50	131.00	11,277.00	-176.03	-389.53	0.00	0.00	0.00	0.00		



QEP Resources, Inc.
Planning Report



Database:	EDMDB_QEP	Local Co-ordinate Reference:	Well RW 43-20B
Company:	QEP ENERGY (UT)	TVD Reference:	RKB @ 5527.00usft (AZTEC 950)
Project:	Red Wash	MD Reference:	RKB @ 5527.00usft (AZTEC 950)
Site:	RW 43-20B	North Reference:	True
Well:	RW 43-20B	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan ver.0		

Planned 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)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,453.86	9.08	260.91	1,451.96	-5.67	-35.43	34.62	2.00	2.00	0.00	
4,132.83	9.08	260.91	4,097.38	-72.44	-452.77	442.42	0.00	0.00	0.00	
4,737.97	0.00	0.00	4,700.00	-80.00	-500.00	488.58	1.50	-1.50	0.00	
8,804.97	0.00	0.00	8,767.00	-80.00	-500.00	488.58	0.00	0.00	0.00	
9,038.31	3.50	131.00	9,000.19	-84.67	-494.62	485.60	1.50	1.50	0.00	
11,319.37	3.50	131.00	11,277.00	-176.03	-389.53	427.46	0.00	0.00	0.00	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
RW 43-20B (9C4-20B)	0.00	0.00	8,767.00	-142.26	-434.48	7,245,873.364	2,242,330.682	40.191893	-109.345130	
- plan misses target center by 90.43usft at 8807.73usft MD (8769.76 TVD, -80.00 N, -500.00 E)										
- Circle (radius 150.00)										

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
3,882.31	3,850.00	9 5/8"	9-5/8	12-1/4	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,038.74	3,017.00	Green River		0.00		
3,828.64	3,797.00	Mahog. Bench		0.00		
6,384.97	6,347.00	Wasatch		0.00		
8,804.97	8,767.00	Mesaverde		0.00		
11,219.19	11,177.00	Sego		0.00		



Company Name: QEP ENERGY (UT)

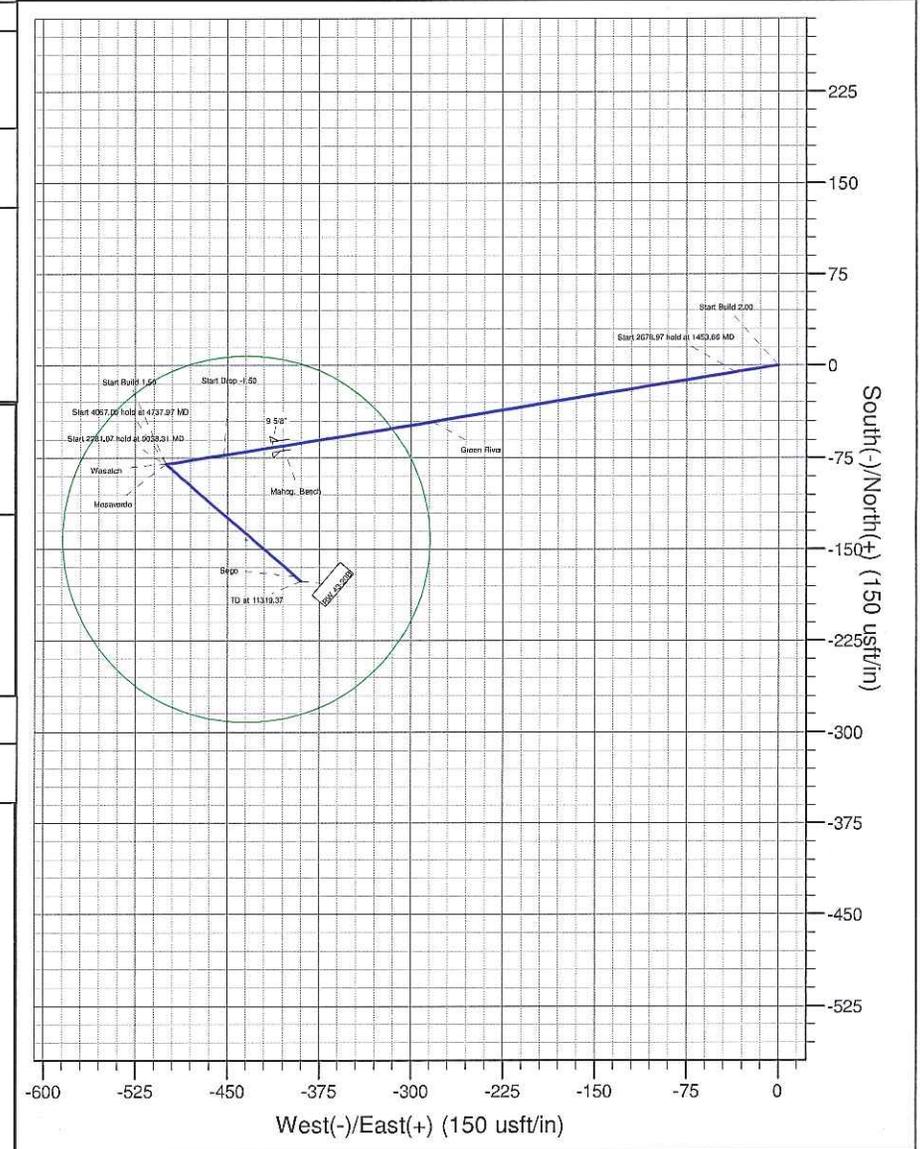
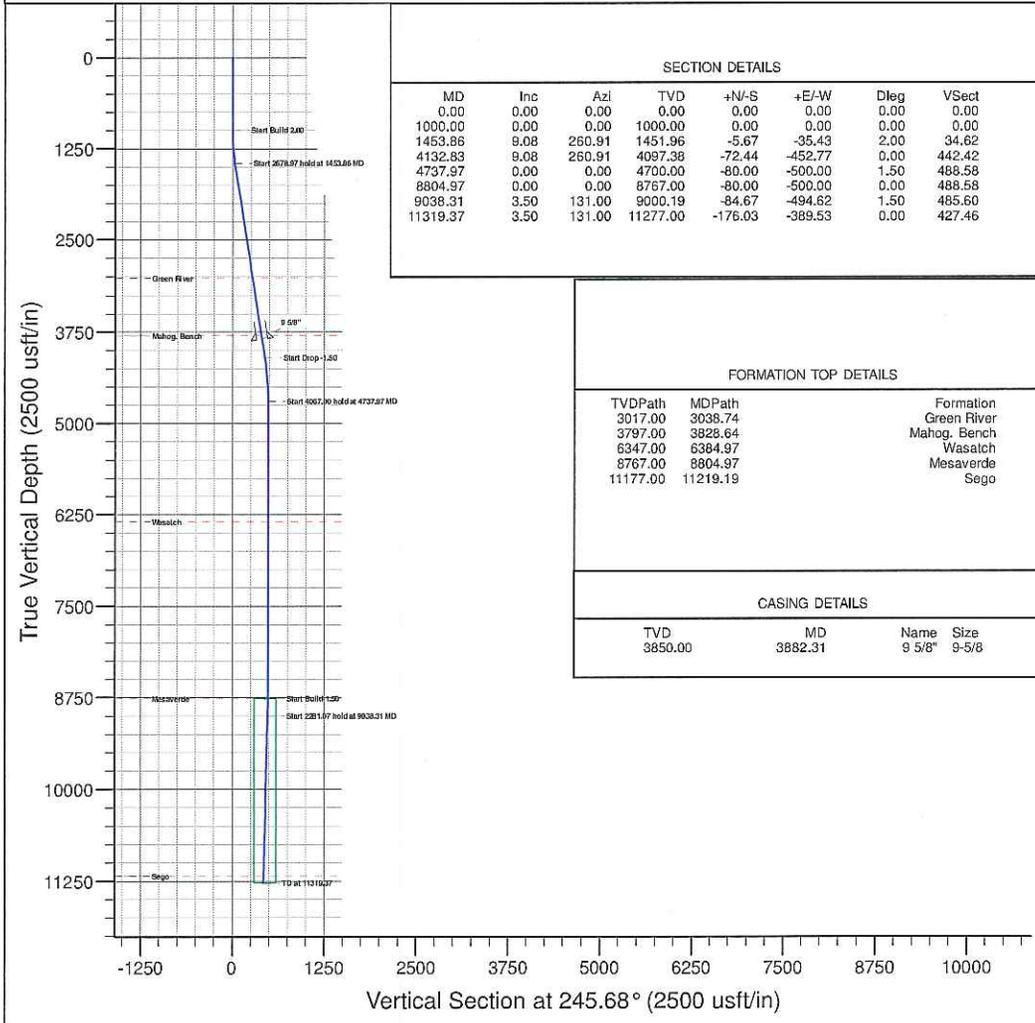


Azimuths to True North
Magnetic North: 10.88°
Magnetic Field
Strength: 5226.9erT
Dip Angle: 66.52°
Date: 9/10/2012
Model: IGRF2010

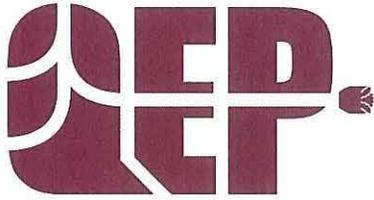
Project: Red Wash
Site: RW 43-20B
Well: RW 43-20B
Wellbore: Original Hole
Design: Plan ver.0

WELL DETAILS: RW 43-20B							REFERENCE INFORMATION		PROJECT DETAILS: Red Wash	
Ground Level: 5511.00 +N/-S +E/-W Northing Easting Latitude Longitude Slot 0.00 0.00 7246026.048 2242761.567 40.192283 -109.343575							Co-ordinate (N/E) Reference: Well RW 43-20B, True North Vertical (TVD) Reference: RKB @ 5527.00usft (AZTEC 950) Section (VS) Reference: Slot - (0.00N, 0.00E) Measured Depth Reference: RKB @ 5527.00usft (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	

DESIGN TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
RW 43-20B (9C4-20B)	8767.00	-142.26	-434.48	7245873.364	2242330.682	Circle (Radius: 150.00)



Sundry Number : 32831 API Well Number : 43047517210000



QEP Energy Company

11002 East 17500 South
Vernal, UT 84078
Telephone 435-781-4331
Fax 435-781-4395

jan.nelson@qepres.com

December 4, 2012

Ms. Diana Mason
Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, UT 84114-6100

RE: Directional Drilling R649-3-11
Red Wash Unit

RW 43-20B

1637' FSL, 562' FEL, NESE, SECTION 20, T7S, R23E(Surface)

1462' FSL, 952' FEL, NESE, SECTION 20, T7S, R23E (Bottom Hole)

Uintah County, Utah

Dear Ms. Mason:

Pursuant to the filing of QEP Energy Company Application for Permit to Drill regarding the above referenced well, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649 -3-11 pertaining to the location and drilling of a directional well.

QEP Energy Company would like to optimize the bottom hole spacing of the Mesa Verde development; therefore, **QEP Energy Company would like to drill this well directionally.**

Furthermore, QEP Energy Company certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

Therefore, based on the above stated information QEP Energy Company requests the permit be granted pursuant to Rule R649-3-11.

Sincerely,

A handwritten signature in blue ink that reads 'Jan Nelson'.

Jan Nelson
Permit Agent

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	
5. LEASE DESIGNATION AND SERIAL NUMBER: UTU02030	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT or CA AGREEMENT NAME: RED WASH	8. WELL NAME and NUMBER: RW 43-20B
1. TYPE OF WELL Gas Well	9. API NUMBER: 43047517210000
2. NAME OF OPERATOR: QEP ENERGY COMPANY	9. FIELD and POOL or WILDCAT: RED WASH
3. ADDRESS OF OPERATOR: 11002 East 17500 South , Vernal, Ut, 84078	PHONE NUMBER: 303 308-3068 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1637 FSL 0562 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESE Section: 20 Township: 07.0S Range: 23.0E Meridian: S	COUNTY: UINTAH STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 6/29/2014	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> 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 type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input checked="" type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

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

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

Date: July 01, 2013

By:

NAME (PLEASE PRINT) Valyn Davis	PHONE NUMBER 435 781-4369	TITLE Regulatory Affairs Analyst
SIGNATURE N/A	DATE 6/26/2013	



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047517210000

API: 43047517210000

Well Name: RW 43-20B

Location: 1637 FSL 0562 FEL QTR NESE SEC 20 TWP 070S RNG 230E MER S

Company Permit Issued to: QEP ENERGY COMPANY

Date Original Permit Issued: 6/29/2011

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

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes No

- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes No

- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes No

- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? Yes No

- Has the approved source of water for drilling changed? Yes No

- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes No

- Is bonding still in place, which covers this proposed well? Yes No

Signature: Valyn Davis

Date: 6/26/2013

Title: Regulatory Affairs Analyst Representing: QEP ENERGY COMPANY

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU02030
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		COUNTY: UINTAH
		STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 7/17/2013	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
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	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

QEP ENERGY COMPANY REQUESTS TO CHANGE THE RW 43-20B FROM A VERTICAL GAS WELL TO A **HORIZONTAL GAS WELL**. NEW BOTTOM HOLE FOOTAGES ARE: 1855' FSL, 909' FWL, NWSW, SEC. 16, T7S, R23E, LATITUDE: 40.207364, LONGITUDE: 109.338306. QEP ENERGY COMPANY REQUESTS TO CHANGE THE SURFACE HOLE LOCATION IN ORDER TO ACCOMODATE A CHANGE IN THE DRILLING RIG USED TO DRILL THIS LOCATION. NEW SURFACE HOLE FOOTAGES ARE: 1649' FSL, 571' FEL, NESE, SEC. 20, T7S, R23E, LATITUDE: 40.192314, LONGITUDE: 109.343608. NO ADDITIONAL SURFACE DISTURBANCE IS REQUIRED FOR THIS ACTION. PLEASE SEE ATTACHED: PLAT PACKAGE, DRILLING PLAN, DIRECTIONAL PLAN.

NAME (PLEASE PRINT) Valyn Davis	PHONE NUMBER 435 781-4369	TITLE Regulatory Affairs Analyst
SIGNATURE N/A	DATE 7/17/2013	

QEP Energy Company

RW 43-20B

Summarized New Drill Lower Mesa Verde Horizontal Procedure

1. MIRU drilling rig.
2. Drill 12-3/4" hole to 3,814'.
3. RIH with 9-5/8" 40# N-80 casing to bottom.
4. Cement casing.
5. NU rig's 5,000 WP rated BOP.
6. Drill vertically to 10,746'.
7. TOOH and PU curve assembly.
8. TIH.
9. Build curve per directional plan to land in the Lower Mesa Verde.
10. RIH with 7" 26# P-110HC.
11. Cement casing.
12. Drill out cement.
13. Drill ~5,213' of lateral at ~15.12° azimuth, following formation dip.
 - a. Mud system to be Oil Based. Weights are expected to be in the 10.0 – 10.5 ppg range.
14. PU 4 1/2" liner with sleeves and swell packers and run to TD.
 - a. Land liner top at 10,700' (Top of Curve).
 - b. Bottom of liner will be 50' of bottom.
15. Set RBP at 10,600'
16. ND BOP's.
17. RDMOL.

ONSHORE OIL & GAS ORDER NO. 1
 QEP ENERGY COMPANY
 RW 43-20B

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	3,021'	3,021'
Bird's Nest	3,241'	3,241'
Mahogany	3,791'	3,791'
Base of Mod Saline	5,441'	5,441'
Wasatch	6,316'	6,316'
Mesaverde	8,905'	8,905'
Kick Off Point	10,023'	10,023'
TD	11,328'	16,699'

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

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

<u>Substance</u>	<u>Formation</u>	<u>Depth, TVD</u>	<u>Depth, MD</u>
Oil/Gas	Green River	3,021'	3,021'
Oil/Gas	Wasatch	6,316'	6,316'
Oil/Gas	Mesaverde	8,905'	8,905'

ONSHORE OIL & GAS ORDER NO. 1
QEP ENERGY COMPANY
RW 43-20B

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 LaPoint Recycling and Storage in Section 12, T5S R19E of Uintah County, UT or Red Wash Disposal site; SESE, Section 28, T7S, R23E or West End Disposal Site; NESE, Section 28, T7S, R22E.

3. Operator's Specification for Pressure Control Equipment

- A. An 11" 5000 psi double ram with blind rams and pipe rams, annular preventer and drilling spool or BOP with 2 side outlets.
- B. All BOP connections subject to pressure shall be flanged, welded or clamped.
- C. Kill line (2" min), 2 choke line valves (3" min), choke line (3" min), 2 kill line valves (2" min) and a check valve, 2 chokes with one remotely controlled from rig floor and a pressure gauge on choke manifold.
- D. Upper and Lower Kelly cock valves with handles and safety valve and subs to fit all drill string connections.
- E. IBOP or float sub available.
- F. Fill up line must be installed above the uppermost preventer.
- G. Ram type preventers and associated equipment shall be tested to approved stack working pressure if isolated by test plug or to 50 percent of internal yield pressure of casing whichever is less. BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc..., for a 5M system and individual components shall be operable as designed.

ONSHORE OIL & GAS ORDER NO. 1
QEP ENERGY COMPANY
RW 43-20B

4. Casing Program

Hole Size	Casing Size	Top, MD	Bottom, MD	Weight, lb/ft	Grade	Thread	Condition	MW
17 1/2"	16"	sfc	90'	Steel	Cond.	None	Used	Air
12 1/4"	9 5/8"	sfc	3,814'	40.0	N-80	LTC	New	Air
8 3/4"	7"	sfc	11,486'	29.0	P-110HC	LTC	New	9-10.5 ppg

Casing Strengths:				Collapse	Burst	Tensile (minimum)
9 5/8"	40.0 lb.	N-80	LTC	3,090 psi	5,750 psi	727,000 lb.
7"	29.0 lb.	P-110HC	LTC	9,750 psi	11,220 psi	797,000 lb.

The lateral will be lined with casing 50' off bottom, swell packers and sliding sleeves.

Lateral:

Hole Size	Casing Size	Top, MD	Bottom, MD	Weight	Grade	MW
6 1/8"	4 1/2"	10,700'	16,649'	13.5	P-110HC	10-10.5 ppg

Casing Strengths:				Collapse	Burst	Tensile (minimum)
4 1/2"	13.5 lb.	P-110HC	LTC	11,810 psi	12,420 psi	338,000 lb.

Please refer to the attached wellbore diagram for further details.

5. Cementing Program

16" Conductor:

Cement to surface with construction cement.

9-5/8" Surface Casing: sfc – 3,814' (MD)

Lead Slurry: Surface (TOC) – 3,314'. 582 sks (1,816 ft³) Halliburton Extendacem, 1 pps Granulite TR 1/4, 0.125 pps Poly-E-Flake, Slurry Weight 11.0 ppg, 3.12 ft³/sk, 75% XS in open hole only.

Tail Slurry: 3,314' – 3,814. 186 sx (274ft³) Halliburton Econocem, 0.2% HR-5 Retarder, 1.0 pps Granulite TR 1/4, 0.125 pps Poly-E-Flake, Slurry Weight 13.5 ppg, 1.47 ft³/sk, 75% XS in open hole.

ONSHORE OIL & GAS ORDER NO. 1
QEP ENERGY COMPANY
RW 43-20B

7" Intermediate Casing: sfc – 11,486' (MD)

Lead: Sfc – 8,400' 547 sks (1,607 cu ft) Halliburton ECONOCEM V4+ 3 LBM/SK Kol-Seal (LCM) + 0.1% HR-800 (Retarder). Slurry Weight 11 lb/gal, Slurry Yield 2.94 ft³/sk, with 50% Excess

Tail Slurry: 8,400' – 11,486'. 467 sks (696 cu ft) Halliburton EXPANDACEM V3 + 0.2% HR-800 (Retarder) + 0.125 lbm/sk Poly-E-Flake (LCM) + 1 lbm/sk Granulite TR ¼ (LCM). Slurry wt: 13.5 ppg, Slurry yield: 1.49 ft³/sk, with 50% excess.

NE Lateral: 10,700' – 16,699'

No cement, liner hung in open hole. Will use swell packer and sliding sleeves.

6. Auxilliary Equipment

- A. Kelly Cock – yes
- B. Float at the bit – Yes
- C. Monitoring equipment on the mud system – PVT/Flow Show
- D. Full opening safety valve on the rig floor – Yes
- E. Rotating Head – Yes
- F. Drilling below the 9-5/8" casing will be done with water based mud. Maximum anticipated mud weight is 10.5 ppg.
- G. No minimum quantity of weight material will be required to be kept on location.
- H. Gas detector will be used from intermediate casing depth 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. OH Logs: GR-SP-Induction, Neutron Density of intermediate section possible
 - iii. 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: Lower Mesa Verde. Stimulation: stimulation will be designed for the particular area of interest encountered.

ONSHORE OIL & GAS ORDER NO. 1
QEP ENERGY COMPANY
RW 43-20B

8. Anticipated Abnormal Pressures and Temperatures, Other Potential Hazards

No abnormal temperatures or pressures are anticipated.

Maximum anticipated bottom hole pressure (approx, psi): 5,735

Maximum anticipated bottom hole temperature (approx, deg F): 210

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

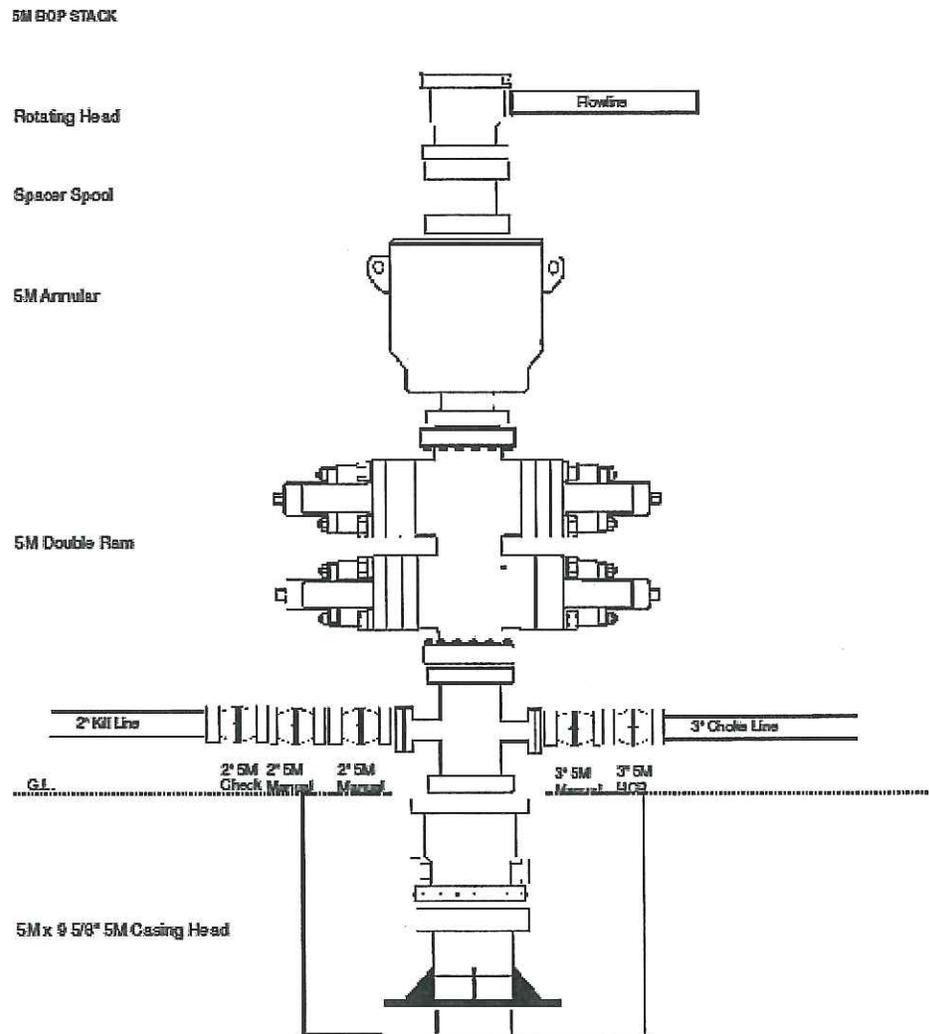
9. Additional Information For Oil Base Mud

- A. A reserve pit will be constructed for this location. This pit will be constructed so that a minimum of two vertical feet of freeboard exists above the top of the pit at all times and at least one-half of the holding capacity will be below ground level. The pit will be lined with a synthetic reinforced liner, 0.030" (0.75 mm +/-) thick, with sufficient bedding used to cover any rocks prior to putting any fluids into the pit. The pad will be designed so that runoff from adjacent slopes does not flow into the reserve pit. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. This cuttings pit will be used for oil based cuttings generated during drilling of the production hole.
- B. Oil-base mud will be mixed in the closed circulating system and transferred to one or more 400 bbl or 500 bbl tanks (as available) on location for storage prior to and after drilling operations. Drip pans will be installed below the rotary beams on the substructure and can be viewed on site from the cellar area. As the production section of the hole is drilled, the cuttings transported to the surface with the drilling fluid will be mechanically separated from the drilling fluid as waste by two shale-shakers and then cleaned/dried via a mud cleaner and/or centrifuge. These separated cuttings will be transferred to the cuttings pit nearest the shakers and stored in this cuttings pit for solidification after the rig is released and moved off location.
- C. The means to transport the cuttings from the solids control equipment to the OBM cuttings pit will be dictated by the size of the location:
- a. Option 1: By track-hoe or similar equipment from a cuttings bin to the cuttings pit.
 - b. Option 2: By 10" PVC pipe or equivalent steel piping. Water will be pumped to the solids control equipment and will convey the OBM cuttings from the solids control equipment to the OBM cuttings pit via the PVC pipe. The water will be recycled multiple times from the cuttings pit to continue to transport the cuttings to the cuttings pit. The conveyance system will be enclosed on the solids control end to prevent spills. The conveyance piping system at the cuttings pit end will be placed on top of pit liner to eliminate absorption of fluids into the soil.

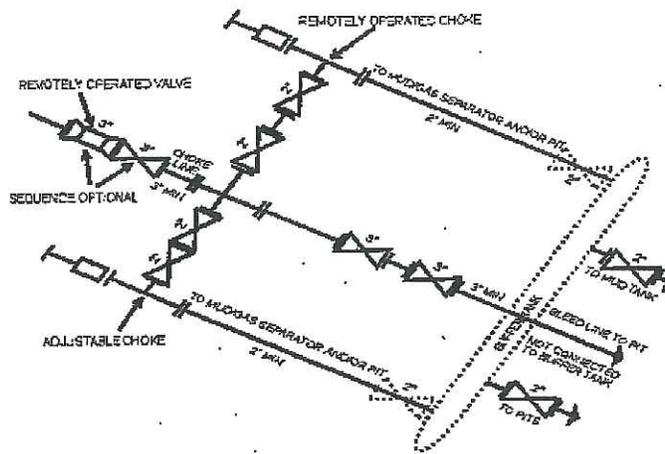
ONSHORE OIL & GAS ORDER NO. 1
QEP ENERGY COMPANY
RW 43-20B

- D. Plastic material will underlay the rig, oil base mud/diesel storage tanks and mud pits. All tanks on location will be placed inside of berms. Any oily waste fluids and sediments generated at the work site during drilling operations or when cleaning the fluid containment system after drilling will also be placed into the cuttings pit.
- E. All rig ditches will be lined and directed to a lined sump for fluid recovery. A drip pan will be installed on the BOP stack, a mud bucket will be utilized as needed on connections and a vacuum system will be used on the rig floor for fluid recovery in those areas.
- F. Once all waste has been placed in the cuttings pit and all necessary approvals obtained, the oilfield waste management consultant Soli-Bond or a similar company will mobilize equipment and personnel to the site to perform the cement based solidification/stabilization process in-situ for encapsulation. Soil will be backfilled over the processed material used on the cuttings pit and will be returned to the existing grade bordering the pit.

ONSHORE OIL & GAS ORDER NO. 1
QEP ENERGY COMPANY
RW 43-20B



ONSHORE OIL & GAS ORDER NO. 1
QEP ENERGY COMPANY
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5M CHOKES MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY

Although not required for any of the choke manifold systems, buffer tanks are sometimes installed downstream of the choke assemblies for the purpose of manifolding the bleed lines together. When buffer tanks are employed, valves shall be installed upstream to isolate a failure or malfunction without interrupting flow control. Though not shown on 204, 304, 104d, CR 1504 drawings, it would also be applicable to these situations.

[54 FR 39523, Sept. 27, 1989]

RW 43-20B

Updated 07-15-2013 CRA

Proposed WBD

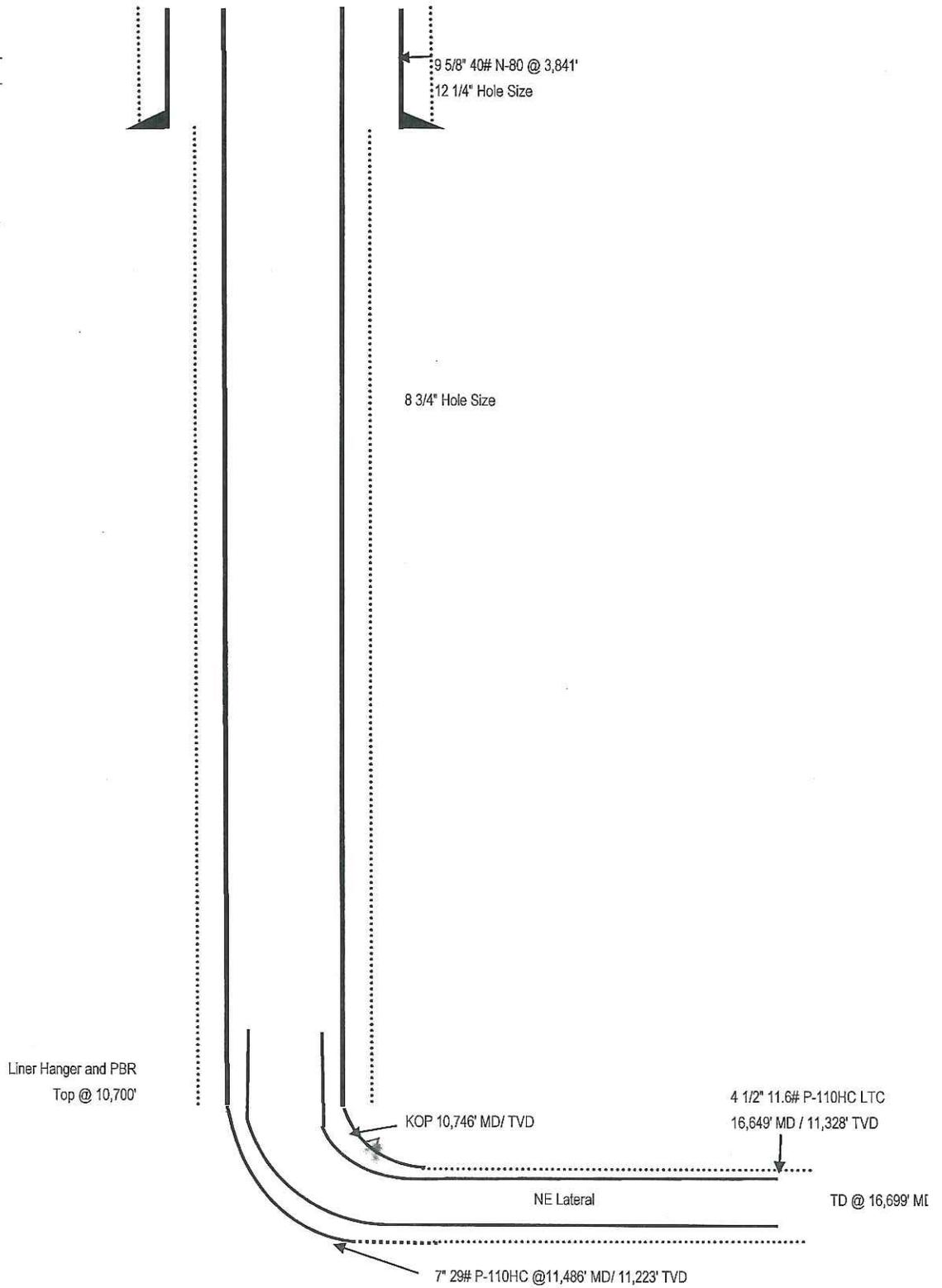
Uinta Basin

Sec 20-T7S-R23E, Uintah County, UT
Sec 16-T7S-R23E, Uintah County, UT

KB 5,527'

GL 5,511'

NOTE: NOT TO SCALE





QEP Energy Company

QEP ENERGY (UT)

Red Wash

RW 43-20B

RW 43-20B

Original Hole

Plan: Plan ver.3

Standard Planning Report

17 July, 2013



QEP Energy Company



QEP Resources, Inc.
Planning Report



Database:	EDM_QEP	Local Co-ordinate Reference:	Well RW 43-20B
Company:	QEP ENERGY (UT)	TVD Reference:	RKB @ 5541.00usft (SST 88)
Project:	Red Wash	MD Reference:	RKB @ 5541.00usft (SST 88)
Site:	RW 43-20B	North Reference:	True
Well:	RW 43-20B	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan ver.3		

Project	Red Wash		
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	RW 43-20B		
Site Position:		Northing:	7,246,026.052 usft
From:	Lat/Long	Easting:	2,242,761.567 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	40.192283
		Longitude:	-109.343575
		Grid Convergence:	1.38 °

Well	RW 43-20B		
Well Position	+N/-S	11.50 usft	Northing:
	+E/-W	-9.26 usft	Easting:
			7,246,037.320 usft
Position Uncertainty		0.00 usft	Wellhead Elevation:
			5,511.00 usft
			Latitude:
			40.192315
			Longitude:
			-109.343608
			Ground Level:
			5,511.00 usft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF2010	9/10/2012	(°)	(°)	(nT)
			10.88	66.02	52,327

Design	Plan ver.3		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(°)
			15.12

Plan Sections										
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	
10,746.02	0.00	0.00	10,746.02	0.00	0.00	0.00	0.00	0.00	0.00	
11,486.44	88.85	15.12	11,223.39	451.68	122.05	12.00	12.00	0.00	15.12	
16,698.84	88.85	15.12	11,328.00	5,482.62	1,481.41	0.00	0.00	0.00	0.00	RW 43-20B

Planned 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)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10,746.02	0.00	0.00	10,746.02	0.00	0.00	0.00	0.00	0.00	0.00	
11,486.44	88.85	15.12	11,223.39	451.68	122.05	467.88	12.00	12.00	0.00	
16,698.84	88.85	15.12	11,328.00	5,482.62	1,481.41	5,679.24	0.00	0.00	0.00	



QEP Resources, Inc.
Planning Report



Database:	EDM_QEP	Local Co-ordinate Reference:	Well RW 43-20B
Company:	QEP ENERGY (UT)	TVD Reference:	RKB @ 5541.00usft (SST 88)
Project:	Red Wash	MD Reference:	RKB @ 5541.00usft (SST 88)
Site:	RW 43-20B	North Reference:	True
Well:	RW 43-20B	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan ver.3		

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									
RW 43-20B	0.00	0.00	11,328.00	5,482.62	1,481.41	7,251,553.610	2,244,100.730	40.207365	-109.338305
- plan hits target center									
- Point									

Casing Points					
Measured Depth	Vertical Depth	Name	Casing Diameter	Hole Diameter	
(usft)	(usft)		(")	(")	
3,841.00	3,841.00	9 5/8"	9-5/8	12-1/4	
11,486.44	11,223.39	7"	7	9-5/8	

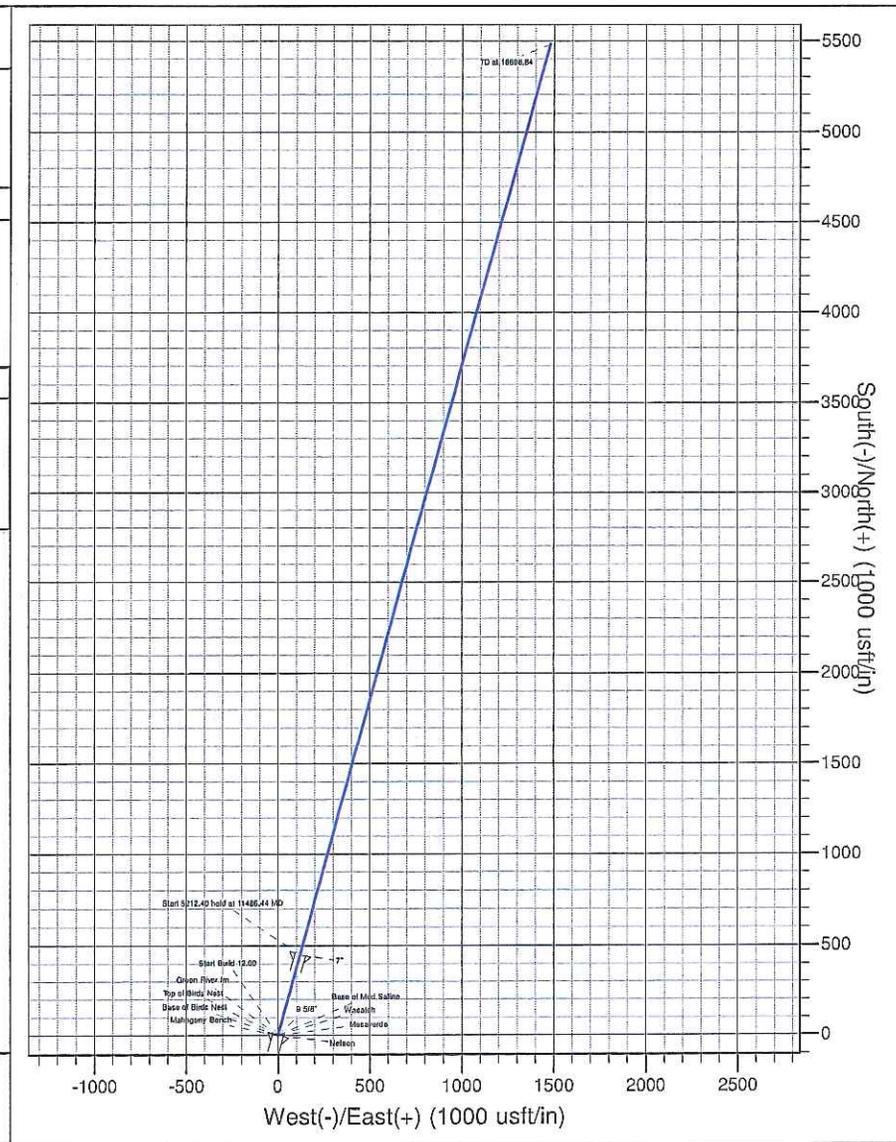
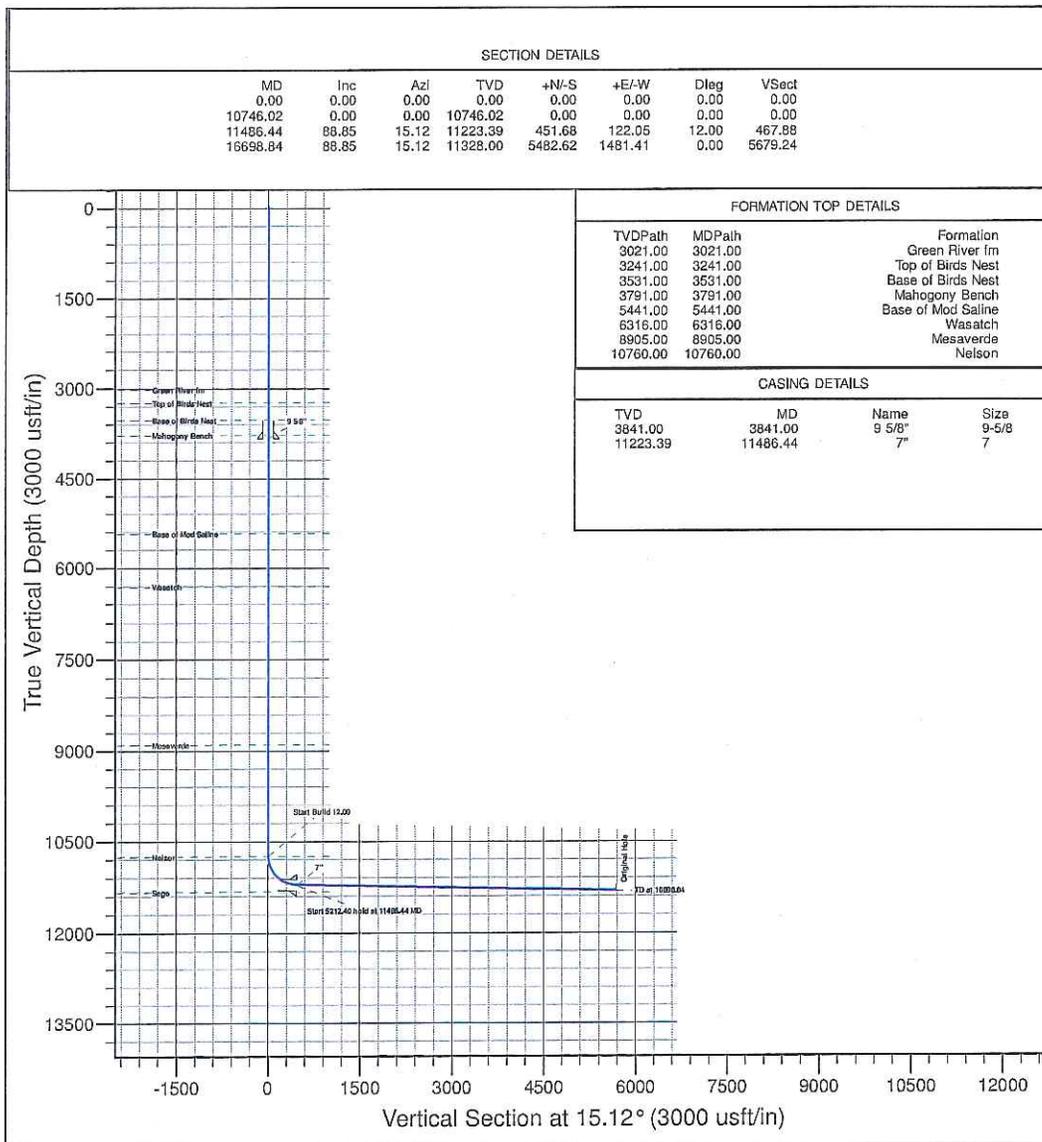
Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(usft)	(usft)			(°)	(°)	
3,021.00	3,021.00	Green River fm		0.00		
3,241.00	3,241.00	Top of Birds Nest		0.00		
3,531.00	3,531.00	Base of Birds Nest		0.00		
3,791.00	3,791.00	Mahogany Bench		0.00		
5,441.00	5,441.00	Base of Mod Saline		0.00		
6,316.00	6,316.00	Wasatch		0.00		
8,905.00	8,905.00	Mesaverde		0.00		
10,760.00	10,760.00	Nelson		0.00		



Azimuths to True North
Magnetic North: 10.88°
Magnetic Field
Strength: 52326.8uT
Dip Angle: 65.02°
Date: 9/10/2012
Model: IGRF2010

Project: Red Wash
Site: RW 43-20B
Well: RW 43-20B
Wellbore: Original Hole
Design: Plan ver.3

WELL DETAILS: RW 43-20B Original Hole							REFERENCE INFORMATION			PROJECT DETAILS: Red Wash		
Ground Level: 5511.00							Co-ordinate (N/E) Reference: Well RW 43-20B, True North Vertical (TVD) Reference: RKB @ 5541.00usft (SST 88) Section (VS) Reference: Slot - (0.00N, 0.00E) Measured Depth Reference: RKB @ 5541.00usft (SST 88) 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 7246037.320	Easting 2242752.030	Latitude 40.192315	Longitude -109.343608	Slot						



QEP ENERGY COMPANY
RW #43-20B & RW #43-20BGR
LOCATED IN UINTAH COUNTY, UTAH
SECTION 20, T7S, R23E, S.L.B.&M.

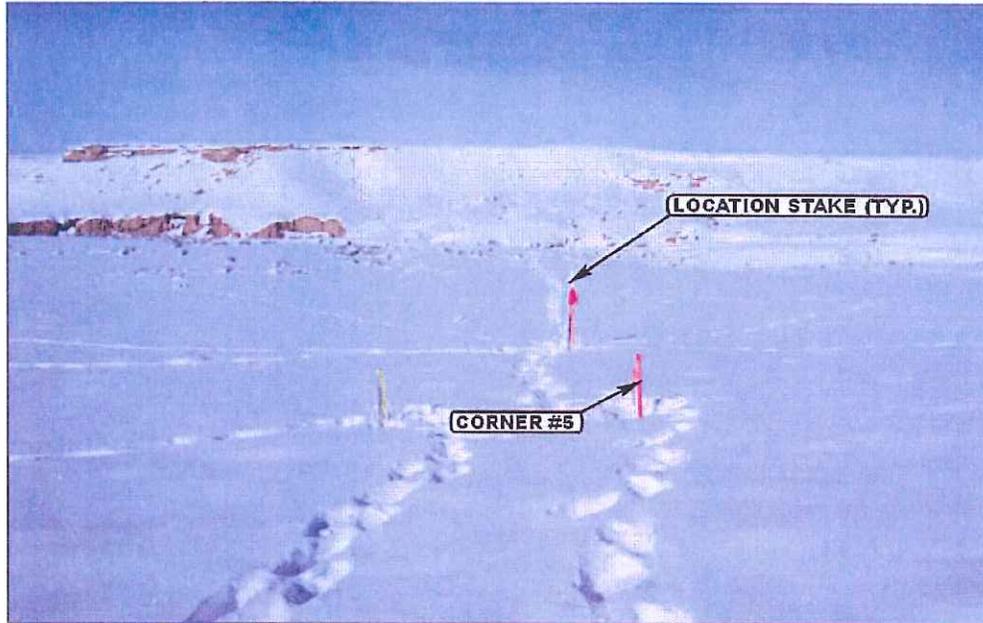


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHWESTERLY

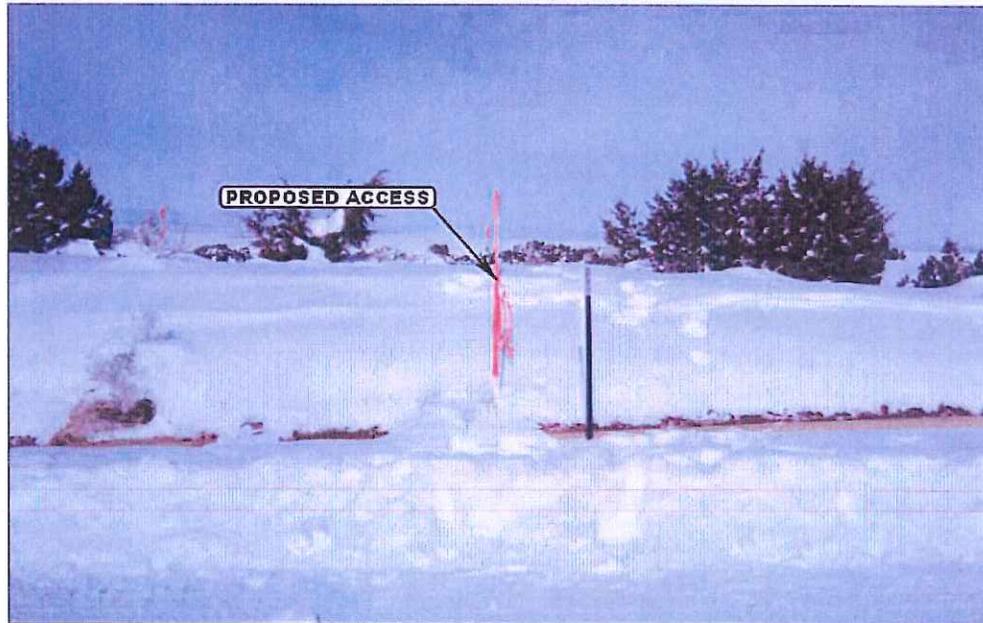


PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: NORTHERLY



- Since 1964 -

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

LOCATION PHOTOS	01	13	11	PHOTO
	MONTH	DAY	YEAR	
TAKEN BY: A.E.	DRAWN BY: J.J.	REV: 07-10-12 C.I.		

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

QEP ENERGY COMPANY

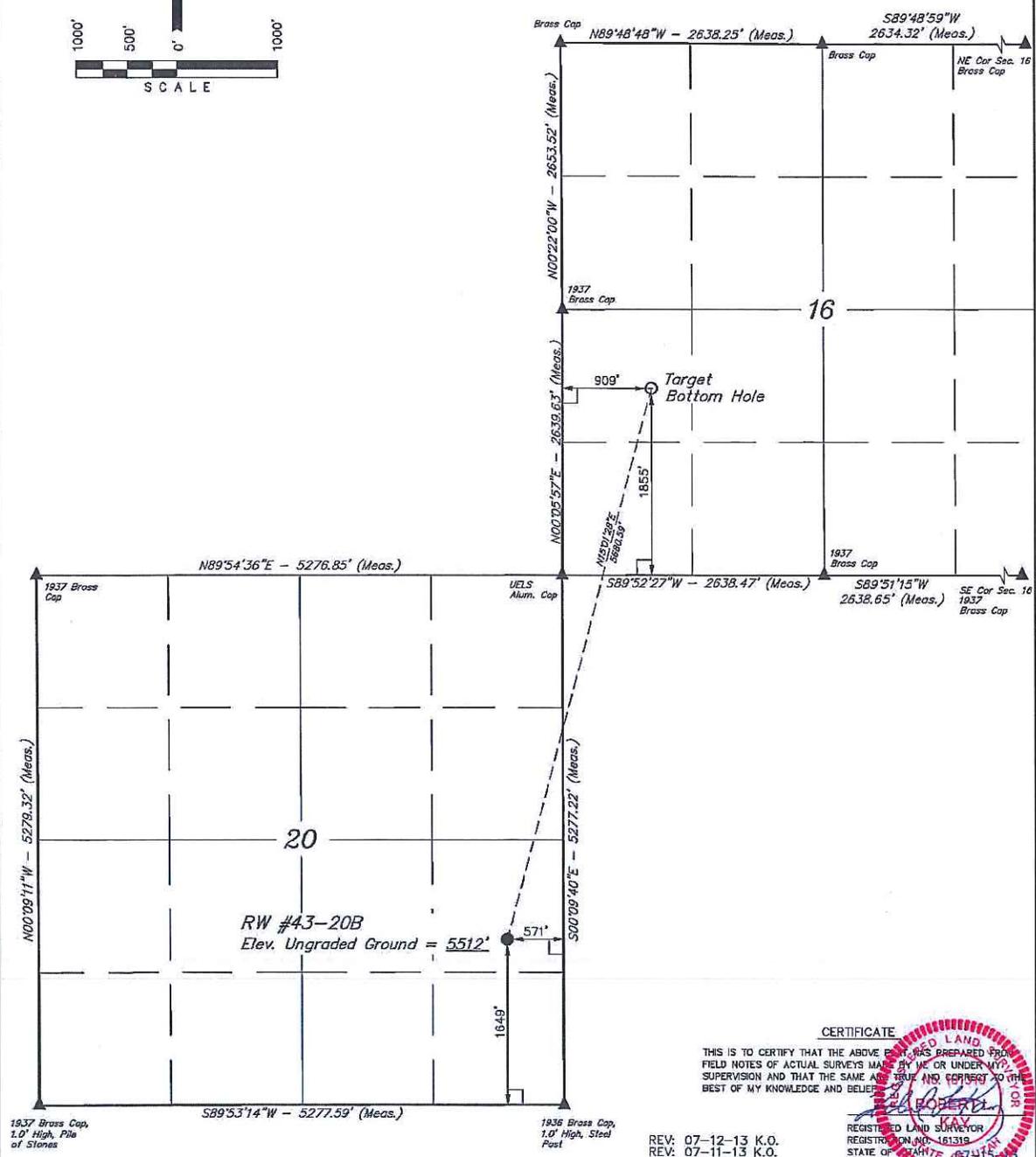
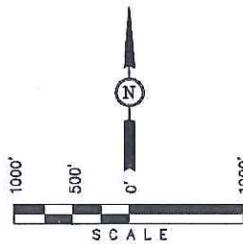
Well location, RW #43-20B, located as shown in the NE 1/4 SE 1/4 of Section 20, T7S, R23E, S.L.B.&M., Uintah County, Utah.

BASIS OF ELEVATION

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

BASIS OF BEARINGS

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



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

NAD 83 (TARGET BOTTOM HOLE)		NAD 83 (SURFACE LOCATION)	
LATITUDE = 40°12'26.51" (40.207384)	LONGITUDE = 109°20'17.90" (109.338308)	LATITUDE = 40°11'32.33" (40.192314)	LONGITUDE = 109°20'36.93" (109.343608)
LATITUDE = 40°12'26.64" (40.207400)	LONGITUDE = 109°20'15.44" (109.337622)	LATITUDE = 40°11'32.46" (40.192350)	LONGITUDE = 109°20'34.53" (109.342925)
STATE PLANE NAD 83 N: 7251533.61 E: 2244100.73		STATE PLANE NAD 83 N: 7246037.52 E: 2242762.03	

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.

[Signature]
REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH 1974

REV: 07-12-13 K.O.
REV: 07-11-13 K.O.
REV: 10-10-12 K.O.

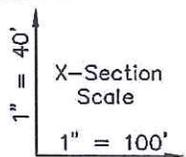
UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 01-12-11	DATE DRAWN: 01-31-11
PARTY A.F. J.C. J.I.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE QEP ENERGY COMPANY	

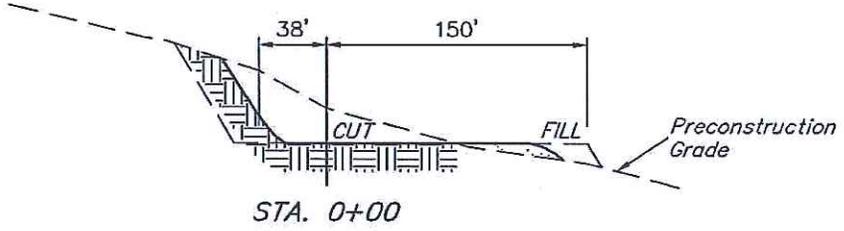
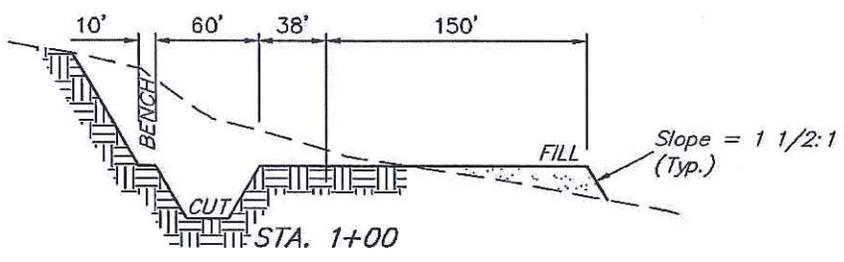
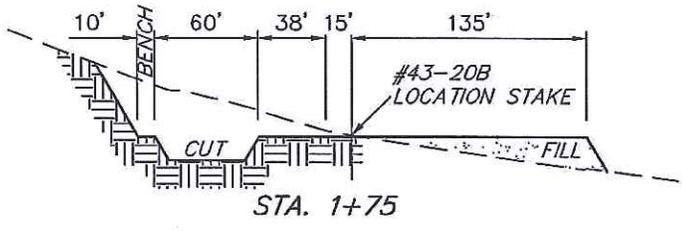
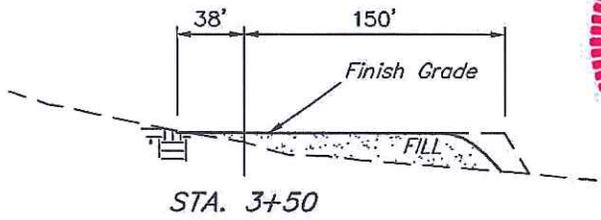
QEP ENERGY COMPANY

FIGURE #2

TYPICAL CROSS SECTIONS FOR
 RW #43-20B & #43-20BGR
 SECTION 20, T7S, R23E, S.L.B.&M.
 NE 1/4 SE 1/4



DATE: 01-31-11
 DRAWN BY: J.I.
 REV: 07-11-12 Z.L.
 REV: 07-12-13 K.O.



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

APPROXIMATE ACREAGES
 WELL SITE DISTURBANCE = ± 2.741 ACRES
 ACCESS ROAD DISTURBANCE = ± 1.052 ACRES
 PIPELINE DISTURBANCE = ± 1.791 ACRES
 TOTAL = ± 5.584 ACRES

* NOTE:
 FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

(6") Topsoil Stripping	=	1,850 Cu. Yds.
Remaining Location	=	15,450 Cu. Yds.
TOTAL CUT	=	17,300 CU.YDS.
FILL	=	7,970 CU.YDS.

EXCESS MATERIAL	=	9,330 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	=	3,110 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	=	6,220 Cu. Yds.

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

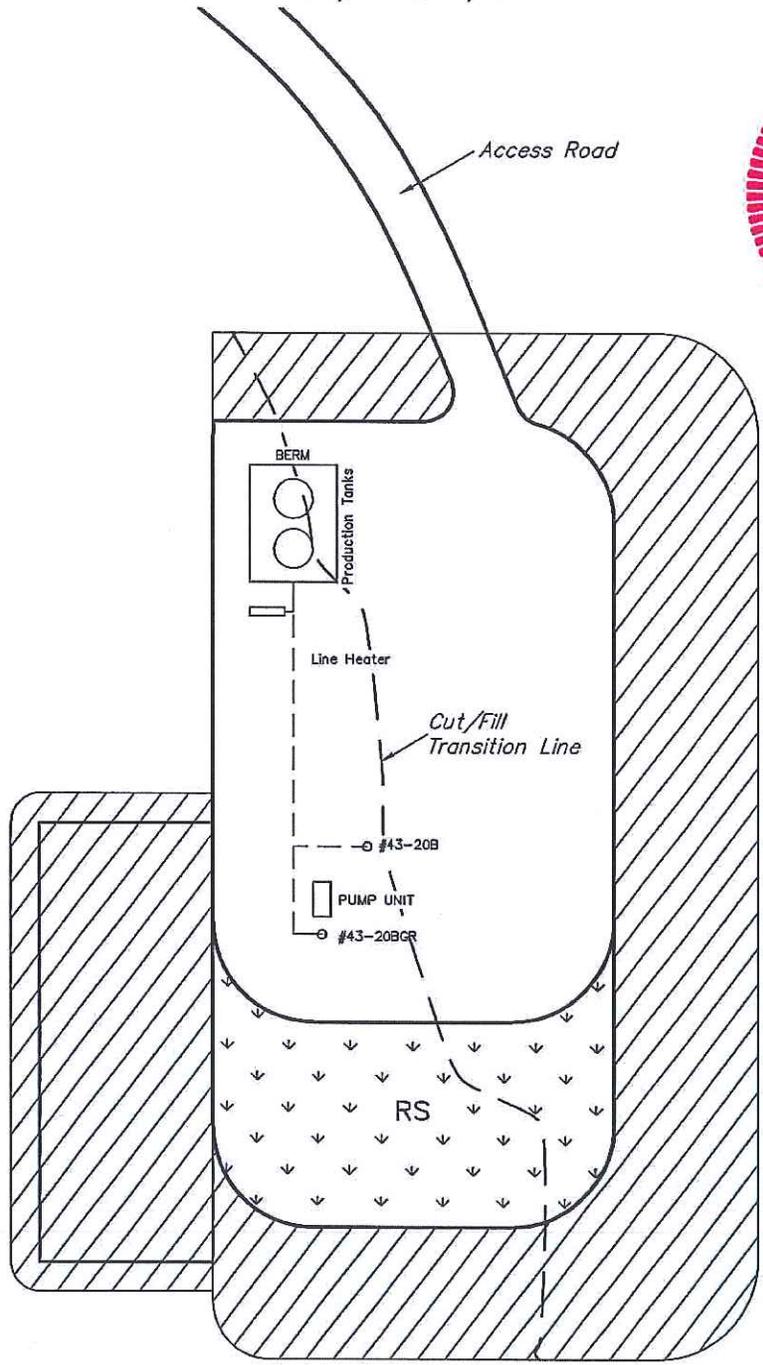
QEP ENERGY COMPANY

INTERIM RECLAMTION PLAN FOR

RW #43-20B & #43-20BGR
SECTION 20, T7S, R23E, S.L.B.&M.
NE 1/4 SE 1/4

FIGURE #4

SCALE: 1" = 60'
DATE: 01-31-11
DRAWN BY: J.I.
REV: 07-11-12 Z.L.
REV: 07-12-13 K.O.



-  INTERIM RECLAMATION
-  RESEED AREA

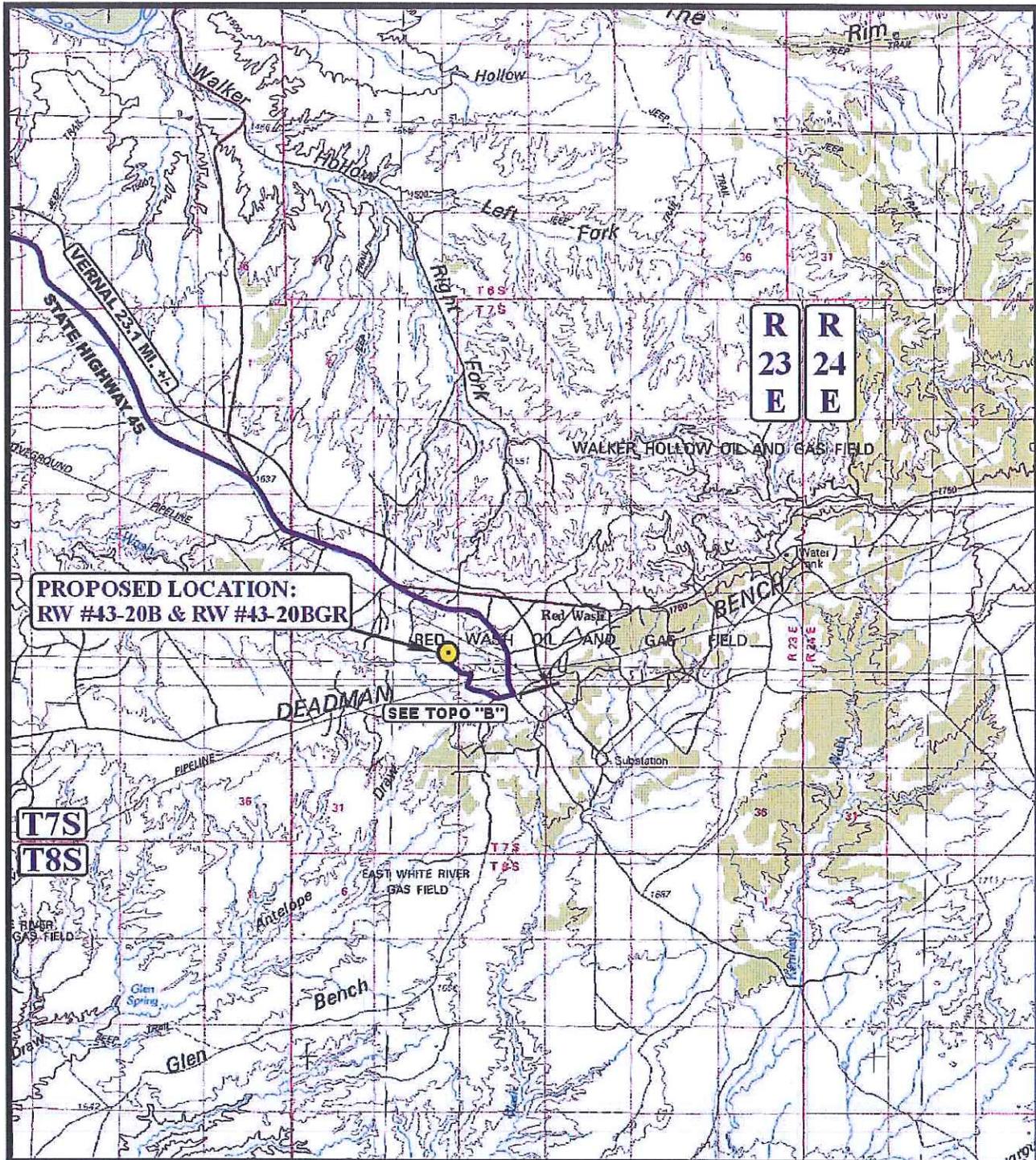
APPROXIMATE ACREAGES
UN-RECLAIMED = ± 0.868 ACRES

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

**QEP ENERGY COMPANY
RW #43-20B & RW #43-20BGR
SECTION 20, T7S, R23E, S.L.B.&M.**

PROCEED IN AN EASTERLY, THEN SOUTHERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 3.9 MILES TO THE JUNCTION OF STATE HIGHWAY 45; EXIT RIGHT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 19.2 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 0.2 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN RIGHT AND PROCEED IN A NORTHWESTERLY, THEN NORTHERLY DIRECTION APPROXIMATELY 0.5 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE WEST; TURN LEFT AND PROCEED IN A WESTERLY DIRECTION APPROXIMATELY 0.1 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE NORTHWEST; FOLLOW ROAD FLAGS IN A NORTHWESTERLY DIRECTION APPROXIMATELY 1,528' TO THE PROPOSED LOCATION

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



LEGEND:

● PROPOSED LOCATION

QEP ENERGY COMPANY

RW #43-20B & RW #43-20BGR
SECTION 20, T7S, R23E, S.L.B.&M.
NE 1/4 SE 1/4



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



TOPOGRAPHIC
MAP

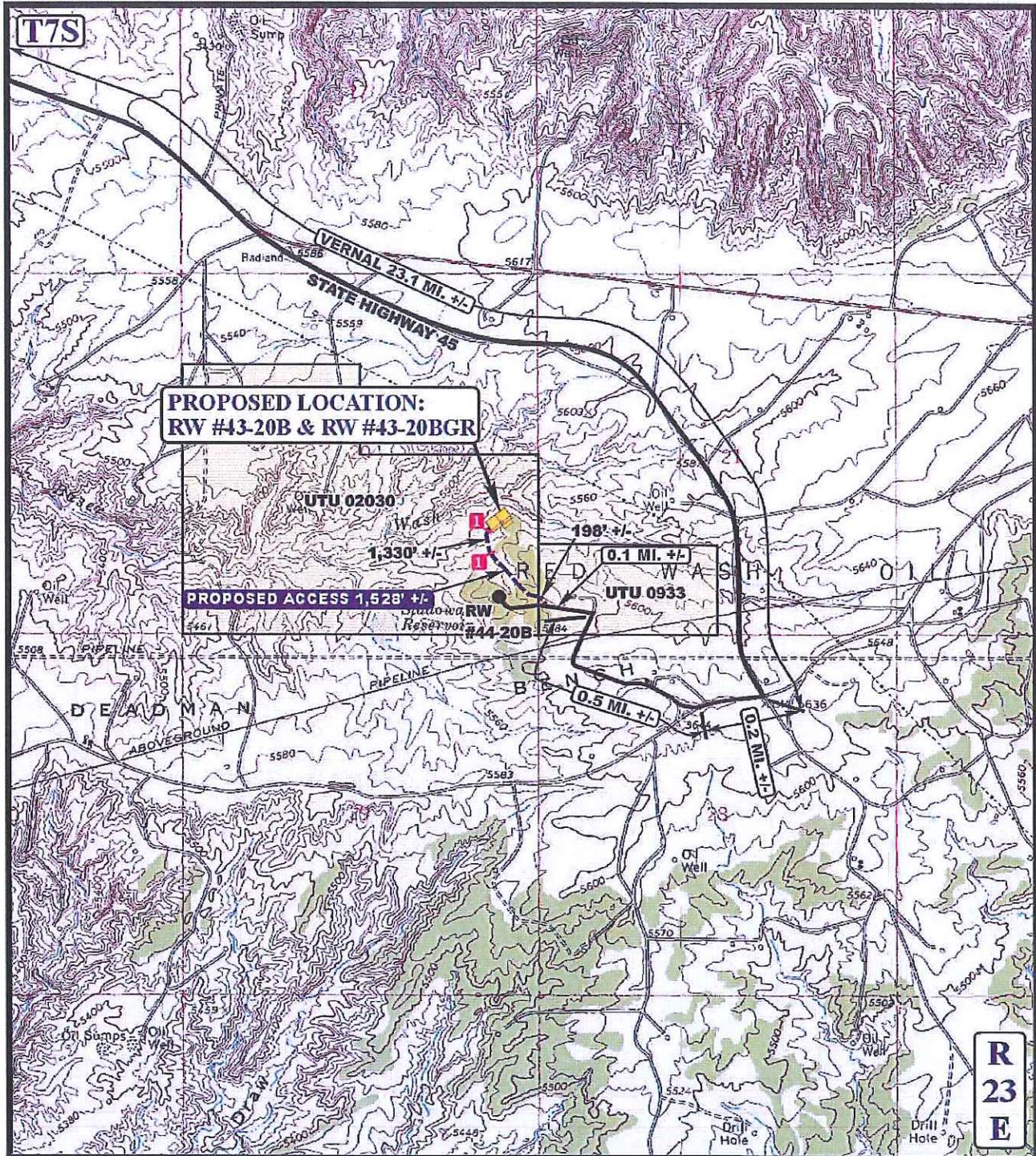
01 **13** **11**
MONTH DAY YEAR

SCALE: 1:100,000

DRAWN BY: J.J.

REV: 07-10-12 C.I.





**PROPOSED LOCATION:
RW #43-20B & RW #43-20BGR**

PROPOSED ACCESS 1,528' +/-

LEGEND:

-  EXISTING ROAD
-  PROPOSED ACCESS ROAD
-  24' CMP REQUIRED



QEP ENERGY COMPANY

**RW #43-20B & RW #43-20BGR
SECTION 20, T7S, R23E, S.L.B.&M.
NE 1/4 SE 1/4**



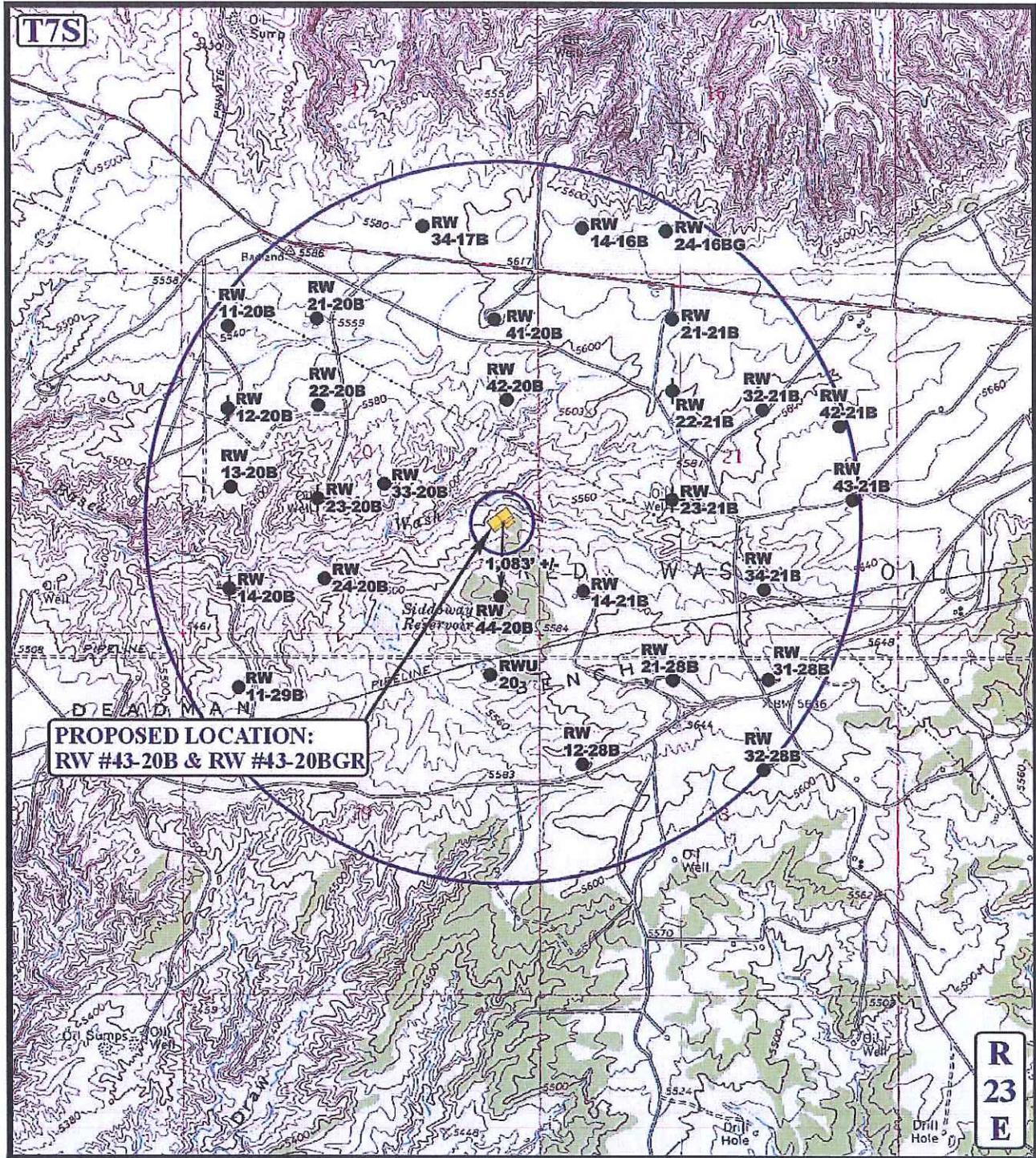
Utah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

**TOPOGRAPHIC
MAP**

01 13 11
MONTH DAY YEAR

**B
TOPO**

SCALE: 1" = 2000' DRAWN BY: J.J. REV: 07-10-12 C.I.



LEGEND:

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



QEP ENERGY COMPANY

**RW #43-20B & RW #43-20BGR
SECTION 20, T7S, R23E, S.L.B.&M.
NE 1/4 SE 1/4**



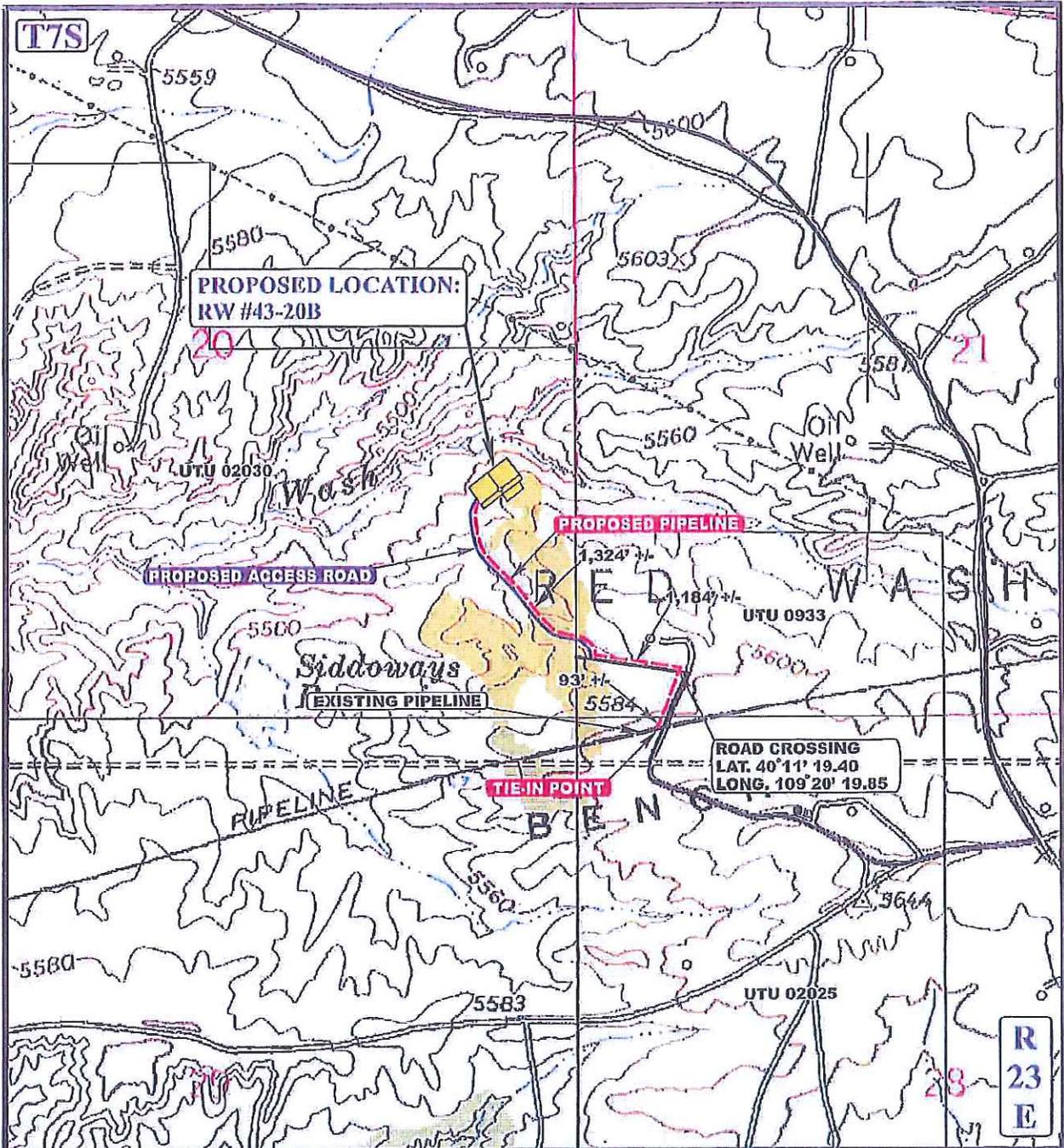
Utah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

**TOPOGRAPHIC
MAP**

01 13 11
MONTH DAY YEAR

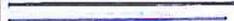


SCALE: 1" = 2000' DRAWN BY: J.J. REV: 07-10-12 C.I.



APPROXIMATE TOTAL PIPELINE DISTANCE = 2,601' +/-

LEGEND:

-  PROPOSED ACCESS ROAD
-  EXISTING PIPELINE
-  PROPOSED PIPELINE

QEP ENERGY COMPANY

RW #43-20B
SECTION 20, T7S, R23E, S.L.B.&M.
1637' FSL 562' FEL



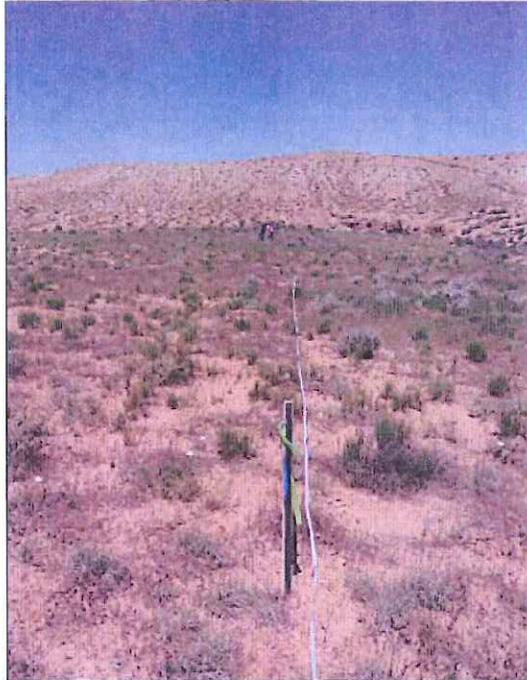
Utah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813



TOPOGRAPHIC MAP 01 13 11
MONTH DAY YEAR
SCALE: 1" = 1000' DRAWN BY: J.J. REVISED: 00-00-00



QEP ENERGY COMPANY
REFERENCE MAP: AREA OF VEGETATION
RW #43-20B & RW #43-20BGR
LOCATED IN UINTAH COUNTY, UTAH
SECTION 20, T7S, R23E, S.L.B.&M.

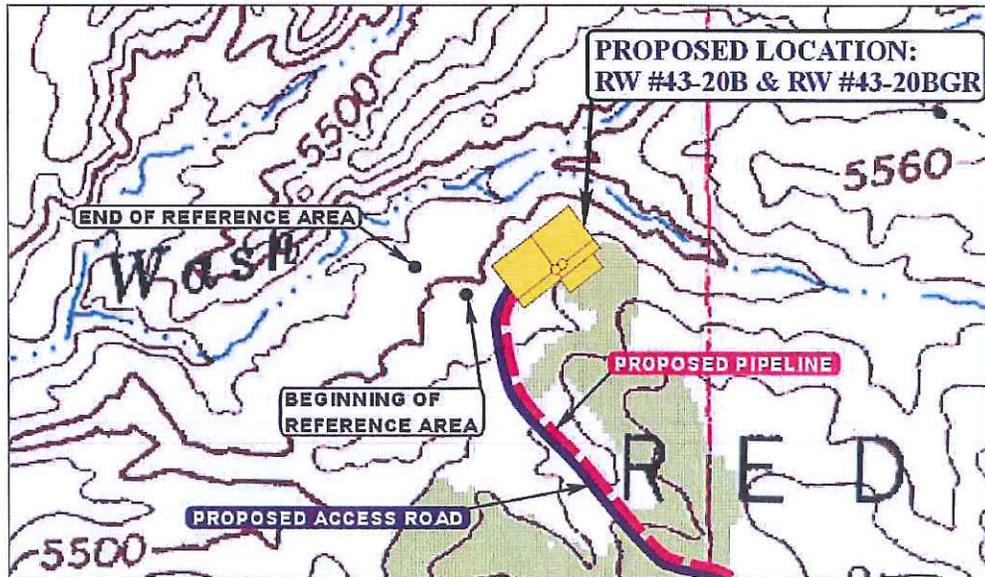


NOTE:

BEGINNING OF REFERENCE AREA
UTM NORTHING: 14600297.341
UTM EASTING: 2102905.858
LATITUDE: 40.192031
LONGITUDE: -109.344669

END OF REFERENCE AREA
UTM NORTHING: 14600392.225
UTM EASTING: 2102730.255
LATITUDE: 40.192300
LONGITUDE: -109.345292

PHOTO: VIEW FROM BEGINNING OF REFERENCE AREA



- Since 1964 -



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

SCALE: 1" = 300'

06 13 11
MONTH DAY YEAR

REF.

TAKEN BY: A.R. | DRAWN BY: Z.L. | REV: 07-10-12 C.I.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU02030
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL Gas Well		7. UNIT or CA AGREEMENT NAME: RED WASH
2. NAME OF OPERATOR: QEP ENERGY COMPANY		8. WELL NAME and NUMBER: RW 43-20B
3. ADDRESS OF OPERATOR: 11002 East 17500 South , Vernal, Ut, 84078		9. API NUMBER: 43047517210000
PHONE NUMBER: 303 308-3068 Ext		9. FIELD and POOL or WILDCAT: RED WASH
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1637 FSL 0562 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESE Section: 20 Township: 07.0S Range: 23.0E Meridian: S		COUNTY: UINTAH
		STATE: UTAH

11.

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 7/23/2012	<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 type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

ON 7/23/2013- QEP ENERGY COMPANY SET 90' OF 16" CONDUCTOR PIPE AND CEMENTED WITH READY MIX.

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
July 25, 2013**

NAME (PLEASE PRINT) Valyn Davis	PHONE NUMBER 435 781-4369	TITLE Regulatory Affairs Analyst
SIGNATURE N/A	DATE 7/25/2013	

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 RW 43-20B
Qtr/Qtr NE/SE Section 20 Township 7S Range 23E
Lease Serial Number UTU63010X
API Number 43-047- 517271

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

Date/Time 7/20/2013 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

RECEIVED

JUL 19 2013

DIV. OF OIL, GAS & MINING

Date/Time _____ AM PM

Remarks We will be drilling and setting 90 ft of 16 inch conductor

CONFIDENTIAL



pressure test notification.docm

43 047 51721

7S 23E 2D

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

Sun, Jul 28, 2013 at 8:36 AM

To: "ut_vn_opreport@blm.gov" <ut_vn_opreport@blm.gov>

Cc: "caroldaniels@utah.gov" <caroldaniels@utah.gov>, "chrisjensen@utah.gov" <chrisjensen@utah.gov>

We will be pressure testing the RW 43-20B. Any questions please call me at 435-828-0396. Thanks—Dave Harding—

 **pressure test notification.docm**
18K

RECEIVED
JUL 28 2013
DIV. OF OIL, GAS & MINING

BLM - Vernal Field Office - Notification Form

Operator QEP ENERGY Rig Name/# SST 88 Submitted By Dave Harding
Phone Number 435-828-0396
Well Name/Number RW 43-20B
Qtr/Qtr NESE Section 20 Township 7S Range 23E
Lease Serial Number UTU02030
API Number 43-047-517271

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

Date/Time _____ AM PM

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

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

Date/Time 7/28/2013 10:00 AM PM

BOPE

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

RECEIVED
JUL 28 2013
DIV. OF OIL, GAS & MINING

Date/Time _____ AM PM

Remarks We will be drilling and setting 3850 ft of 9 5/8 inch surface casing

CONFIDENTIAL



pressure test notification.docm

43 047 51721

76 23E 20

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

Sun, Jul 28, 2013 at 8:36 AM

To: "ut_vn_opreport@blm.gov" <ut_vn_opreport@blm.gov>

Cc: "caroldaniels@utah.gov" <caroldaniels@utah.gov>, "chrisjensen@utah.gov" <chrisjensen@utah.gov>

We will be pressure testing the RW 43-20B. Any questions please call me at 435-828-0396. Thanks—Dave Harding—

 **pressure test notification.docm**
18K

RECEIVED
JUL 28 2013
DIV. OF OIL, GAS & MINING

BLM - Vernal Field Office - Notification Form

Operator QEP ENERGY Rig Name/# SST 88 Submitted By Dave Harding
Phone Number 435-828-0396
Well Name/Number RW 43-20B
Qtr/Qtr NESE Section 20 Township 7S Range 23E
Lease Serial Number UTU02030
API Number 43-047-517271

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

Date/Time _____ AM PM

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

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

Date/Time 7/28/2013 10:00 AM PM

BOPE

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

RECEIVED
JUL 28 2013
DIV. OF OIL, GAS & MINING

Date/Time _____ AM PM

Remarks We will be drilling and setting 3850 ft of 9 5/8 inch surface casing

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9	
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU02030	
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
1. TYPE OF WELL Gas Well		7. UNIT or CA AGREEMENT NAME: RED WASH	
2. NAME OF OPERATOR: QEP ENERGY COMPANY		8. WELL NAME and NUMBER: RW 43-20B	
3. ADDRESS OF OPERATOR: 11002 East 17500 South , Vernal, Ut, 84078		9. API NUMBER: 43047517210000	
PHONE NUMBER: 303 308-3068 Ext		9. FIELD and POOL or WILDCAT: RED WASH	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1637 FSL 0562 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESE Section: 20 Township: 07.0S Range: 23.0E Meridian: S		COUNTY: UINTAH	
		STATE: UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 10/6/2013 <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 type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input checked="" 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.			
THIS WELL COMMENCED PRODUCTION ON OCTOBER 6, 2013 @ 9:30 P.M.			
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY October 10, 2013			
NAME (PLEASE PRINT) Valyn Davis	PHONE NUMBER 435 781-4369	TITLE Regulatory Affairs Analyst	
SIGNATURE N/A		DATE 10/10/2013	

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

AMENDED REPORT FORM 8
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU02030
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 _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR: QEP ENERGY COMPANY		7. UNIT or CA AGREEMENT NAME RED WASH
3. ADDRESS OF OPERATOR: 11002 E. 17500 S. CITY VERNAL STATE UT ZIP 84078		8. WELL NAME and NUMBER: RW 43-20B
PHONE NUMBER: (435) 781-4320		9. API NUMBER: 4304751721
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: SECTION 20, NESE, 1637' FSL, 526' FEL		10. FIELD AND POOL, OR WILDCAT RED WASH
AT TOP PRODUCING INTERVAL REPORTED BELOW: SECTION 20, NESE, 1637' FSL, 526' FEL		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESE 20 7S 23E
AT TOTAL DEPTH: SECTION 21, NWNW, 572' FNL, 175' FWL		12. COUNTY UINTAH
		13. STATE UTAH

14. DATE SPUNDED: 7/23/2013	15. DATE T.D. REACHED: 9/2/2013	16. DATE COMPLETED: 10/5/2013	ABANDONED <input type="checkbox"/> READY TO PRODUCE <input checked="" type="checkbox"/>	17. ELEVATIONS (DF, RKB, RT, GL): 5512' GL
18. TOTAL DEPTH: MD 14,065 TVD 11,273	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) CBL			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 N-80	40	0	3,849		1,349	441	140	
8.75	7 HCB	29	0	10,903		1,009	399		
6.125	4.5 HCB	13.5	0	14,034		925	298		

25. TUBING RECORD

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

26. PRODUCING INTERVALS					27. PERFORATION RECORD				
FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS	
(A) MESA VERDE	11,140	13,936			11,140 13,936	.42	336	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
11,140 - 13,936	50,383 BBLs SLICKWATER; 1,148,018 LBS 30/50 SAND

29. ENCLOSED ATTACHMENTS: <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: OPS SUMMARY	30. WELL STATUS: PGW
--	------------------------------------

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 10/6/2013	TEST DATE: 10/12/2013	HOURS TESTED: 24	TEST PRODUCTION RATES: →	OIL - BBL: 0	GAS - MCF: 3,254	WATER - BBL: 2,323	PROD. METHOD: FLOWS
CHOKE SIZE: 30	TBG. PRESS. 0	CSG. PRESS. 2,036	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.)

SOLD

33. SUMMARY OF POROUS ZONES (Include Aquifers):

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

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				GREEN RIVER	2,994
				MAHOGANY	3,774
				WASATCH	6,105
				MESA VERDE	8,955
				SEGO	14,274

35. ADDITIONAL REMARKS (Include plugging procedure)

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

NAME (PLEASE PRINT) BENNA MUTH TITLE REGULATORY ASSISTANT - CONTRACT
 SIGNATURE *Benna Muth* DATE 11/25/2013

This report must be submitted within 30 days of

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

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

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

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



QEP Energy Company

Daily Activity and Cost Summary

Well Name: RW 43-20B

API 43-047-51721	Surface Legal Location S20-T7S-R23E	Field Name RED WASH	County UINTAH	State UTAH	Well Configuration Type Horizontal	
Unique Well ID UT08816445	Ground Elevation (ft) 5,511	Casing Flange Elevation (ft) 5,511.00	Current KB to GL (ft) 30.00	KB to CF (ft) 30.00	Spud Date 7/13/2013 08:00	Final Drig Rig Release
Job Category DRILLING	Primary Job Type DRILLING	Secondary Job Type DEVELOPMENT	Objective			
Start Date 7/3/2013	Job End Date 9/8/2013					

Purpose

Summary

Contractor Pete Martin Drilling	RIG PETE MARTIN 1	Rig Type AUGER RIG
Contractor SST Energy	RIG SST 88	Rig Type ROTARY RIG

DOL	Start Date	Summary
1	7/3/2013	PRE SPUD COSTS
2	7/10/2013	cut pipe for road crossing
3	7/12/2013	cut pipe for road crossing
4	7/13/2013	install road crossing
5	7/22/2013	RIG DOWN TOPDRIVE AND FLOOR, READY AND LAY OVER DERRICK, SETTING OUT BACK YARD
6	7/23/2013	RIG DOWN MOVE TO NEW LOCATON RIG IS 60% RIGGED DOWN,40% HAULED AND 10% RIGGED UP
7	7/24/2013	MOVE TO NEW LOCATION AND RIG UP. 100% RIGGED DOWN, 85% MOVED, 60% RIGGED UP, WAIT ON DAYLIGHT
8	7/25/2013	RIG UP. PLACE DERRICK ON FLOOR. RAISE A-LEGS & STRING UP. RAISE DERRICK & TOP DRIVE. GENERAL RIG UP. CLEAN FLOOR.
9	7/26/2013	RIG UP AND PREPARE FOR DRILL OUT. STRAP & P/U BHA. ORIENT TOOLS. DRILL SURFACE F/120 T/ 1502.
10	7/27/2013	DIRECTIONAL DRILL. TOP DRIVE REPAIR. RIG SERVICE. SHORT TRIP TO CONDUCTOR. SURVEYS AND CONNECTIONS
11	7/28/2013	DIRECTIONAL DRILL. TRIP OUT. WORK TIGHT SPOT @ 3410. LOSSES: 6300 BBL.
12	7/29/2013	TRIP OUT OF HOLE TIGHT
13	7/30/2013	WASH AND REAM TO BOTTOM, TROUBLE SHOOT MWD, DIRECTIONAL DRILL, TROUBLE SHOOT TOP DRIVE, SHORT TRIP, TRIP OUT FOR CASING
14	7/31/2013	LAY DOWN DIRECTIONAL TOOLS, RIG UP CASERS, RUN 9 5/8 CASING.
15	8/1/2013	CEMENT TOP JOB # 2, PREP FOR FOR WELL HEAD, CUT OFF CONDUCTOR AND 9 5/8 CASING. WELD ON WELL HEAD. NIPPLE UP, TEST, PICK UP BHA, TRIP IN, DRILL SHOE TRACK
16	8/2/2013	TRIP, DRILL SHOE TRACK, FIT TEST, DIRECTIONAL DRILL, SURVEY, TRIP FOR PIPE COUNT RIG SERVICE
17	8/3/2013	DIRECTIONAL DRILL 8 3/4 HOLE, SURVEY
18	8/4/2013	DIRECTIONAL DRILL, SURVEYS, RIG SERVICE
19	8/5/2013	DIRECTIONAL DRILL 8 3/4 HOLE, RIG SERVICE, TRIP.
20	8/6/2013	TRIP, DRILL, SURVEYS
21	8/7/2013	DRILL FROM 9159'-10109', PUMP SWEEPS TO REGAIN CIRCULATION, ROUTINE RIG SERVICE, SURVEYS
22	8/8/2013	DRILL FROM 10109'- 10483' @ KOP, CIRCULATE HIGH VIS SWEEP AND BOTTOMS UP, PERFORM 20 STAND WIPER TRIP, CIRCULATE SPOT WALNUT, TRIP OUT FOR LOGS
23	8/9/2013	LAYDOWN DIRECTIONAL TOOLS, RIG UP AND RUN OPEN HOLE WIRELINE LOGS,PICK UP CURVE BHA, CUT DRILL LINE, TRIP IN, WASH TO BOTTOM
24	8/10/2013	CIRCULATE BOTTOMS UP TRIP GAS, BUILD CURVE FROM 10483'-10607
25	8/11/2013	DRILL CURVE SECTION FROM 10,607' TO 10,623', TROUBLE SHOOT MWD TOOL, CIRCULATE HIGH VIS SWEEP TO BOTTOMS UP, TRIP OUT FOR MWD TOOL, CHANGE OUT TOOLS, TRIP IN, LOST CIRC AT 5900', MIX LCM
26	8/12/2013	BUILD VOLUME RAISE LCM TO 4%, TRIP IN HOLE, REAM FROM 9700' TO 10100', TROUBLESHOOT MWD, TRIP OUT
27	8/13/2013	TRIP OUT, CHANGE BIT, MULE SHOE, AND PULSE TOOL, TRIP IN 8 STANDS, WAIT ON NEW DIRECTIONAL E.M. MWD TOOL, MAKE UP TOOLS AND TRIP IN, BUILD CURVE
28	8/14/2013	REAM TO BOTTOM, DRILL CURVE FROM 10,623' TO 10825'
29	8/15/2013	DRILL CURVE FROM 10825' TO 10845' DOWN LINK TO MWD, DRILL CURVE FROM 10845' TO 10,874', CIRCULATE HIGH VIS SWEEP WAIT ON ORDERS, DRILL FROM 10,874' TO 10,909, CIRCULATE FOR WIPER TRIP, WIPER TRIP TO 9,000', SPOT WALNUT,LUBE, TRIP OUT FOR CASING
30	8/16/2013	TRIP OUT, LAYDOWN DIRECTIONAL TOOLS, PULL WEAR BUSHING, HELD PJSA RIG UP AND RUN 7" CASING AND CEMENT
31	8/17/2013	CEMENT 7" CASING, RIG DOWN CEMENTERS, LAYDOWN LANDING JOINT INSTALL PACKOFF, INSTALL WEAR BUSHING CLEAN MUD TANKS, LAYDOWN 4.5" D.P. IN MOUSEHOLE



QEP Energy Company

Daily Activity and Cost Summary

Well Name: RW 43-20B

API 43-047-51721	Surface Legal Location S20-T7S-R23E	Field Name RED WASH	County UINTAH	State UTAH	Well Configuration Type Horizontal
Unique Well ID UT08816445	Ground Elevation (ft) 5,511	Casing Flange Elevation (ft) 5,511.00	Current KB to GL (ft) 30.00	KB to CF (ft) 30.00	Spud Date 7/13/2013 08:00
					Final Drig Rig Release
DOL	Start Date	Summary			
32	8/18/2013	LAY 30 JTS DOWN IN MOUSEHOLE, RIG SERVICE PULL WEAR BUSHING, TEST BOP CHOKE TOPDRIVE AND FLOOR VALVES, SLIP AND CUT DRILL LINE, INSTALL WEAR BUSHING, LOAD RACKS AND STRAP BHA AND DRILL PIPE, PICK UP 4" STRING, REPAIR TOP DRIVE HOSES			
33	8/19/2013	PICK UP 4" DRILL STRING, REPAIR TOP DRIVE, DRILL SHOE TRACK, FIT			
34	8/20/2013	DRILL SHOE AND FIT TEST TO 11.2PPG, SLIDE DRILL CURVE FROM 10909- 11007'			
35	8/21/2013	DIRECTIONAL DRILL CRUVE FROM 11007'			
36	8/22/2013	DIRECTIONAL DRILL CRUVE, RIG SERVICE, TRIP FOR BIT			
37	8/23/2013	TRIP IN HOLE, WASH 120 FT. TO BOTTOM, DIRECTIONAL DRILL, RIG SERVICE, SURVEY			
38	8/24/2013	DIRECTIONAL DRILL CURVE SECTION, SURVEYS,			
39	8/25/2013	PICK UP DP TO REPLACE HWDP. TRIP OUT FOR DRILL AND REAM, TRIP IN.			
40	8/26/2013	DIRECTIONAL DRILL, SURVEY			
41	8/27/2013	DIRECTIONAL DRILL, SURVEY, TRIP			
42	8/28/2013	DIRECTIONAL DRILL, SURVEY, RIG SERVICE			
43	8/29/2013	DIRECTIONAL DRILL, SURVEY, RIG SERVICE			
44	8/30/2013	SHORT TRIP 26 STDS., CUT DRILLING LINE, TRIP IN AND WASH 180 FT., DIRECTIONAL DRILL, SURVEY, BACK REAM.			
45	8/31/2013	BACK REAM, CIRCULATE AND CODITION MUD,WASH TO BOTTOM.			
46	9/1/2013	WASH REAM, DIRECTIONAL DRILL			
47	9/2/2013	DIRECTIONAL DRILL, SURVEY, RIG SERVICE, TRIP			
48	9/3/2013	WASH AND REAM FROM 13500, CIRCULATE, TRIP OUT			
49	9/4/2013	TRIP IN HOLE FROM 1,338' TO 10,979', REAM FROM 10,979' TO 14065', CIRCULATE FOR SHORT TRIP			
50	9/5/2013	BACK REAM 5 STANDS THEN STRAIGHT PULLED 5 STANDS, REAM BACK TO BOTTOM, CIRCULATE SPOT WALNUT, LAYDOWN DRILL PIPE, ROUTINE RIG SERVICE, LAYDOWN DRILL PIPE, RIG UP WEATHERFORD OVERDRIVE TOOL			
51	9/6/2013	HELD PJSA AND RIG UP WEATHERFORDS OVERDRIVE CASING RUNNING TOOL, RUN 4 1/2" CDC CASING,			
52	9/7/2013	RAN 4 1/2" CDC CASING, CIRCULATE, CEMENT, SET PACKER, CLEAN MUD PITS			
53	9/8/2013	CLEAN MUD TANKS, RIG DOWN FLOOR, HAUL 4" RENTAL PIPE OFF, HAUL BACK EXCESS 4 1/2" CASING, LOWER TOPDRIVE, RIGDOWN BACK YARD, CHANGE PUMP LINERS TO 6", CLEAN RIG			



**NATIVE
NAVIGATION**

DIRECTIONAL DRILLING SPECIALISTS

QEP Energy Services

Red Wash
RW 43-20B
RW 43-20B

RW 43-20B

Design: RW 43-20B

Standard Survey Report

21 August, 2013



Survey Report

Company:	QEP Energy Services	Local Co-ordinate Reference:	Well RW 43-20B
Project:	Red Wash	TVD Reference:	RKB @ 5541.00usft (SST 88)
Site:	RW 43-20B	MD Reference:	RKB @ 5541.00usft (SST 88)
Well:	RW 43-20B	North Reference:	True
Wellbore:	RW 43-20B	Survey Calculation Method:	Minimum Curvature
Design:	RW 43-20B	Database:	Compass DB

Project	Red Wash		
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	RW 43-20B				
Site Position:		Northing:	7,246,037.320 usft	Latitude:	40.192315
From:	Map	Easting:	2,242,752.030 usft	Longitude:	-109.343608
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	1.38 °

Well	RW 43-20B					
Well Position	+N/-S	0.00 usft	Northing:	7,246,037.320 usft	Latitude:	40.192315
	+E/-W	0.00 usft	Easting:	2,242,752.030 usft	Longitude:	-109.343608
Position Uncertainty		0.00 usft	Wellhead Elevation:	5,511.00 usft	Ground Level:	5,511.00 usft

Wellbore	RW 43-20B				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	7/22/2013	10.77	66.00	52,241

Design	RW 43-20B				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:		Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
		0.00	0.00	0.00	49.91

Survey Program	Date 8/21/2013				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
30.00	10,909.00	RW 43-20B Svys (RW 43-20B)	MWD	Fixed:v2:standard declination	

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	
30.00	0.00	0.00	30.00	0.00	0.00	0.00	0.00	0.00	0.00	
RKB										
182.00	0.30	133.20	182.00	-0.27	0.29	0.05	0.20	0.20	0.00	
242.00	0.40	179.30	242.00	-0.59	0.41	-0.07	0.48	0.17	76.83	
333.00	0.30	239.70	333.00	-1.03	0.21	-0.50	0.40	-0.11	66.37	
425.00	0.40	141.10	425.00	-1.40	0.20	-0.75	0.58	0.11	-107.17	
517.00	0.40	249.00	516.99	-1.76	0.10	-1.06	0.70	0.00	117.28	
612.00	0.50	226.60	611.99	-2.17	-0.51	-1.79	0.21	0.11	-23.58	
703.00	0.40	196.20	702.99	-2.75	-0.89	-2.45	0.28	-0.11	-33.41	
793.00	0.70	183.20	792.98	-3.60	-1.01	-3.08	0.36	0.33	-14.44	



Survey Report

Company: QEP Energy Services	Local Co-ordinate Reference: Well RW 43-20B
Project: Red Wash	TVD Reference: RKB @ 5541.00usft (SST 88)
Site: RW 43-20B	MD Reference: RKB @ 5541.00usft (SST 88)
Well: RW 43-20B	North Reference: True
Wellbore: RW 43-20B	Survey Calculation Method: Minimum Curvature
Design: RW 43-20B	Database: 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)
885.00	0.30	168.80	884.98	-4.39	-0.99	-3.59	0.45	-0.43	-15.65
977.00	0.70	212.70	976.98	-5.10	-1.25	-4.24	0.57	0.43	47.72
1,072.00	0.70	173.50	1,071.97	-6.17	-1.49	-5.12	0.49	0.00	-41.26
1,167.00	0.80	187.70	1,166.96	-7.40	-1.52	-5.93	0.22	0.11	14.95
1,262.00	0.60	206.90	1,261.96	-8.50	-1.83	-6.88	0.32	-0.21	20.21
1,357.00	0.70	218.40	1,356.95	-9.40	-2.42	-7.90	0.17	0.11	12.11
1,452.00	1.10	208.80	1,451.94	-10.65	-3.22	-9.32	0.45	0.42	-10.11
1,547.00	1.10	207.30	1,546.92	-12.26	-4.07	-11.02	0.03	0.00	-1.58
1,642.00	1.00	189.50	1,641.90	-13.89	-4.63	-12.49	0.36	-0.11	-18.74
1,737.00	1.20	193.10	1,736.89	-15.68	-4.99	-13.92	0.22	0.21	3.79
1,832.00	0.60	115.20	1,831.88	-16.86	-4.77	-14.50	1.29	-0.63	-82.00
1,927.00	1.00	99.80	1,926.87	-17.21	-3.50	-13.76	0.47	0.42	-16.21
2,022.00	2.00	31.20	2,021.84	-15.93	-1.82	-11.66	1.98	1.05	-72.21
2,118.00	1.70	38.50	2,117.79	-13.39	-0.07	-8.68	0.40	-0.31	7.60
2,212.00	1.70	32.00	2,211.75	-11.11	1.54	-5.98	0.21	0.00	-6.91
2,307.00	1.80	39.10	2,306.71	-8.76	3.22	-3.18	0.25	0.11	7.47
2,402.00	1.90	24.70	2,401.66	-6.17	4.82	-0.29	0.50	0.11	-15.16
2,496.00	2.00	14.90	2,495.60	-3.17	5.90	2.47	0.37	0.11	-10.43
2,591.00	1.90	17.00	2,590.55	-0.06	6.78	5.15	0.13	-0.11	2.21
2,686.00	1.30	2.80	2,685.51	2.52	7.30	7.20	0.75	-0.63	-14.95
2,782.00	0.70	353.30	2,781.50	4.19	7.28	8.27	0.65	-0.63	-9.90
2,877.00	0.70	233.30	2,876.49	4.42	6.75	8.01	1.28	0.00	-126.32
2,972.00	1.20	219.70	2,971.48	3.31	5.65	6.45	0.57	0.53	-14.32
3,067.00	1.50	212.20	3,066.45	1.49	4.35	4.29	0.37	0.32	-7.89
3,162.00	1.50	179.40	3,161.42	-0.81	3.70	2.31	0.89	0.00	-34.53
3,257.00	1.20	158.30	3,256.40	-2.97	4.08	1.21	0.61	-0.32	-22.21
3,352.00	1.70	141.20	3,351.36	-5.00	5.33	0.86	0.69	0.53	-18.00
3,447.00	1.90	145.90	3,446.32	-7.40	7.10	0.66	0.26	0.21	4.95
3,542.00	2.20	121.40	3,541.26	-9.65	9.54	1.08	0.97	0.32	-25.79
3,637.00	3.80	108.80	3,636.13	-11.62	14.07	3.28	1.81	1.68	-13.26
3,853.00	4.20	101.60	3,851.60	-15.51	28.60	11.88	0.30	0.19	-3.33
3,948.00	4.30	102.50	3,946.34	-16.98	35.48	16.20	0.13	0.11	0.95
4,074.00	2.60	81.60	4,072.11	-17.59	42.92	21.51	1.66	-1.35	-16.59
4,169.00	1.40	58.80	4,167.05	-16.67	46.05	24.49	1.49	-1.26	-24.00
4,264.00	1.20	12.90	4,262.03	-15.10	47.26	26.43	1.08	-0.21	-48.32
4,359.00	0.90	8.70	4,357.02	-13.40	47.60	27.78	0.33	-0.32	-4.42
4,454.00	1.10	1.20	4,452.00	-11.75	47.73	28.95	0.25	0.21	-7.89
4,549.00	0.80	337.00	4,546.99	-10.22	47.49	29.74	0.52	-0.32	-25.47
4,644.00	0.70	340.70	4,641.98	-9.07	47.04	30.14	0.12	-0.11	3.89
4,739.00	0.30	335.20	4,736.98	-8.29	46.74	30.42	0.42	-0.42	-5.79
4,834.00	0.30	14.40	4,831.98	-7.83	46.70	30.68	0.21	0.00	41.26
4,929.00	0.40	108.80	4,926.97	-7.69	47.07	31.06	0.55	0.11	99.37
5,024.00	1.00	95.70	5,021.97	-7.88	48.21	31.81	0.65	0.63	-13.79



Survey Report

Company:	QEP Energy Services	Local Co-ordinate Reference:	Well RW 43-20B
Project:	Red Wash	TVD Reference:	RKB @ 5541.00usft (SST 88)
Site:	RW 43-20B	MD Reference:	RKB @ 5541.00usft (SST 88)
Well:	RW 43-20B	North Reference:	True
Wellbore:	RW 43-20B	Survey Calculation Method:	Minimum Curvature
Design:	RW 43-20B	Database:	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)
5,119.00	0.80	107.30	5,116.95	-8.16	49.67	32.74	0.28	-0.21	12.21
5,214.00	1.30	116.10	5,211.94	-8.83	51.27	33.53	0.55	0.53	9.26
5,309.00	1.20	104.50	5,306.92	-9.56	53.20	34.55	0.29	-0.11	-12.21
5,404.00	1.10	118.00	5,401.90	-10.23	54.97	35.46	0.30	-0.11	14.21
5,499.00	1.50	105.40	5,496.87	-10.99	56.98	36.51	0.52	0.42	-13.26
5,594.00	0.90	137.60	5,591.85	-11.87	58.68	37.24	0.93	-0.63	33.89
5,689.00	1.30	164.30	5,686.84	-13.46	59.47	36.83	0.67	0.42	28.11
5,784.00	1.50	158.00	5,781.81	-15.65	60.23	36.00	0.27	0.21	-6.63
5,879.00	1.10	211.30	5,876.79	-17.58	60.22	34.74	1.28	-0.42	56.11
5,974.00	1.20	191.60	5,971.77	-19.34	59.55	33.10	0.43	0.11	-20.74
6,069.00	1.30	201.30	6,066.74	-21.32	58.96	31.37	0.25	0.11	10.21
6,165.00	1.40	180.30	6,162.72	-23.50	58.55	29.66	0.52	0.10	-21.88
6,260.00	0.80	334.00	6,257.71	-24.07	58.26	29.07	2.26	-0.63	161.79
6,355.00	1.10	325.90	6,352.70	-22.72	57.46	29.32	0.35	0.32	-8.53
6,450.00	1.20	313.70	6,447.68	-21.27	56.23	29.31	0.28	0.11	-12.84
6,545.00	0.70	303.90	6,542.67	-20.26	55.02	29.04	0.55	-0.53	-10.32
6,640.00	0.30	322.30	6,637.66	-19.74	54.39	28.89	0.45	-0.42	19.37
6,735.00	0.50	305.20	6,732.66	-19.31	53.90	28.80	0.24	0.21	-18.00
6,830.00	0.40	300.50	6,827.66	-18.90	53.28	28.58	0.11	-0.11	-4.95
6,926.00	0.50	310.40	6,923.65	-18.46	52.67	28.40	0.13	0.10	10.31
7,021.00	0.60	324.00	7,018.65	-17.79	52.06	28.37	0.17	0.11	14.32
7,116.00	0.50	334.40	7,113.64	-17.01	51.59	28.51	0.15	-0.11	10.95
7,211.00	0.70	335.30	7,208.64	-16.11	51.17	28.77	0.21	0.21	0.95
7,306.00	0.80	314.60	7,303.63	-15.12	50.45	28.86	0.30	0.11	-21.79
7,401.00	0.90	314.40	7,398.62	-14.13	49.45	28.73	0.11	0.11	-0.21
7,496.00	1.10	294.30	7,493.61	-13.23	48.08	28.26	0.42	0.21	-21.16
7,591.00	0.70	318.50	7,588.60	-12.42	46.87	27.85	0.57	-0.42	25.47
7,686.00	0.70	312.00	7,683.59	-11.60	46.05	27.76	0.08	0.00	-6.84
7,781.00	0.20	0.80	7,778.58	-11.04	45.62	27.79	0.62	-0.53	51.37
7,876.00	0.10	121.00	7,873.58	-10.92	45.70	27.92	0.28	-0.11	126.53
7,970.00	0.40	100.80	7,967.58	-11.02	46.09	28.16	0.33	0.32	-21.49
8,065.00	0.40	111.90	8,062.58	-11.21	46.72	28.52	0.08	0.00	11.68
8,160.00	1.50	129.40	8,157.57	-12.12	47.99	28.90	1.18	1.16	18.42
8,255.00	0.80	134.10	8,252.55	-13.37	49.43	29.20	0.74	-0.74	4.95
8,350.00	0.40	188.40	8,347.54	-14.16	49.85	29.02	0.69	-0.42	57.16
8,446.00	0.30	131.80	8,443.54	-14.66	49.99	28.80	0.36	-0.10	-58.96
8,541.00	0.80	135.70	8,538.54	-15.30	50.64	28.88	0.53	0.53	4.11
8,636.00	1.10	146.20	8,633.52	-16.54	51.61	28.83	0.36	0.32	11.05
8,732.00	1.10	153.20	8,729.51	-18.12	52.54	28.52	0.14	0.00	7.29
8,827.00	1.10	149.30	8,824.49	-19.72	53.42	28.16	0.08	0.00	-4.11
8,922.00	1.30	137.20	8,919.47	-21.30	54.61	28.06	0.34	0.21	-12.74
9,017.00	1.60	159.00	9,014.44	-23.33	55.82	27.68	0.66	0.32	22.95
9,112.00	1.40	164.50	9,109.41	-25.68	56.61	26.76	0.26	-0.21	5.79



Survey Report

Company:	QEP Energy Services	Local Co-ordinate Reference:	Well RW 43-20B
Project:	Red Wash	TVD Reference:	RKB @ 5541.00usft (SST 88)
Site:	RW 43-20B	MD Reference:	RKB @ 5541.00usft (SST 88)
Well:	RW 43-20B	North Reference:	True
Wellbore:	RW 43-20B	Survey Calculation Method:	Minimum Curvature
Design:	RW 43-20B	Database:	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)	
9,207.00	1.40	155.60	9,204.38	-27.86	57.40	25.97	0.23	0.00	-9.37	
9,302.00	1.20	203.70	9,299.36	-29.83	57.48	24.76	1.13	-0.21	50.63	
9,397.00	0.90	226.70	9,394.34	-31.25	56.53	23.12	0.54	-0.32	24.21	
9,492.00	0.70	206.20	9,489.33	-32.28	55.73	21.85	0.36	-0.21	-21.58	
9,587.00	1.10	172.50	9,584.32	-33.71	55.60	20.82	0.68	0.42	-35.47	
9,683.00	1.50	178.40	9,680.29	-35.87	55.75	19.55	0.44	0.42	6.15	
9,777.00	0.50	178.90	9,774.28	-37.51	55.80	18.52	1.06	-1.06	0.53	
9,872.00	0.30	153.30	9,869.28	-38.15	55.91	18.20	0.28	-0.21	-26.95	
9,968.00	0.20	110.00	9,965.28	-38.43	56.19	18.23	0.22	-0.10	-45.10	
10,062.00	0.80	74.00	10,059.27	-38.31	56.97	18.91	0.69	0.64	-38.30	
10,158.00	0.50	115.60	10,155.27	-38.30	57.99	19.69	0.56	-0.31	43.33	
10,252.00	0.40	68.80	10,249.26	-38.36	58.67	20.17	0.39	-0.11	-49.79	
10,347.00	0.60	83.60	10,344.26	-38.19	59.47	20.90	0.25	0.21	15.58	
10,436.00	0.90	96.80	10,433.25	-38.22	60.63	21.77	0.39	0.34	14.83	
10,470.00	1.30	89.40	10,467.25	-38.25	61.28	22.25	1.25	1.18	-21.76	
10,502.00	2.60	14.70	10,499.23	-37.54	61.83	23.12	8.07	4.06	-233.44	
10,534.00	5.40	1.30	10,531.15	-35.33	62.05	24.71	9.17	8.75	-41.88	
10,565.00	8.60	8.00	10,561.92	-31.58	62.40	27.40	10.64	10.32	21.61	
10,612.00	13.10	12.80	10,608.06	-22.90	64.07	34.27	9.76	9.57	10.21	
10,644.00	14.60	16.20	10,639.13	-15.49	66.00	40.51	5.33	4.69	10.63	
10,675.00	16.90	17.20	10,668.97	-7.43	68.42	47.56	7.47	7.42	3.23	
10,707.00	18.00	13.80	10,699.50	1.81	70.98	55.46	4.69	3.44	-10.63	
10,739.00	19.70	16.40	10,729.78	11.79	73.68	63.96	5.92	5.31	8.13	
10,770.00	21.40	16.60	10,758.80	22.22	76.77	73.04	5.49	5.48	0.65	
10,802.00	22.60	16.00	10,788.47	33.73	80.13	83.02	3.82	3.75	-1.88	
10,834.00	23.70	15.90	10,817.90	45.82	83.59	93.46	3.44	3.44	-0.31	
10,870.00	26.90	16.60	10,850.44	60.59	87.90	106.27	8.93	8.89	1.94	
10,909.00	30.36	16.60	10,884.67	78.50	93.24	121.88	8.87	8.87	0.00	
Proj @ TD										

Checked By: _____ Approved By: _____ Date: _____

SURVEY DATA CERTIFICATION



PHOENIX
TECHNOLOGY SERVICES

Job #:	1321056	Wellbore Name:		Client:	QEP Energy Company
Well Name:	RW 43-20B		Main Leg	API#:	43-047-51721
County/State:	Utah/Utah			Direction:	15.00
Latitude:	40.192315 N			Longitude:	109.343608 W
1/4-1/4 Section-Township-Range-Footages:	Sec 20-T7S-R23E;			Rig name:	SST 88

TIE IN DATA

MD	TVD	INC	AZM
10870.00	10850.44	26.90	16.60

N-S	E-W	DATA SOURCE
60.59 N	87.9 E	Native Nav Surveys
Data Source Company:		Native Navigation

FIRST SURVEY

DATE	DEPTH	INC	AZM
20-Aug-13	10907.00	29.00	15.40

LAST SURVEY

DATE	DEPTH	INC	AZM
3-Sep-13	14010.00	83.20	2.80

STRAIGHT LINE PROJECTION TO TD

DATE	DEPTH	INC	AZM
3-Sep-13	14065.00	83.20	2.80

DEPTH DATUM

KELLY BUSHING	GROUND LEVEL
5541.00	5511.00

MWD 1: William Pricer
 MWD 2: Robert Davis
 MWD 3: Casey Beavers

DD 1: John Vrana
 DD 2: Richard Bullock
 DD 3: 0

TOTAL CORRECTION: 10.76
 DECLINATION OR GRID: DEC
 MWD TYPE: P-360

PRINT YOUR NAME

Wm. R. Pricer

PRINT WELL PLANNER

Michael W. Ramich

SIGN YOUR NAME

William Pricer

SIGN WELL PLANNER

Michael W. Ramich

DATE

3-Sep-13

DATE

9/25/13



QEP Energy Company

**Uintah Co., UT
Sec.20-T7S-R23E
RW 43-20B**

Wellbore #1

Survey: Survey #2

Standard Survey Report

16 October, 2013



**PHOENIX
TECHNOLOGY SERVICES**



Phoenix Technology Services
Survey Report



Database:	RMR Compass DB	Local Co-ordinate Reference:	Well RW 43-20B
Company:	QEP Energy Company	TVD Reference:	WELL @ 5541.00usft (Original Well Elev)
Project:	Uintah Co., UT	MD Reference:	WELL @ 5541.00usft (Original Well Elev)
Site:	Sec.20-T7S-R23E	North Reference:	True
Well:	RW 43-20B	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Job Number	Wellbore #1		

Project	Uintah Co., UT		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Utah Central Zone		

Site	Sec.20-T7S-R23E				
Site Position:		Northing:	7,246,037.320 usft	Latitude:	40.19
From:	Map	Easting:	2,242,752.030 usft	Longitude:	-109.34
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	1.38 °

Well	RW 43-20B					
Well Position	+N/-S	0.00 usft	Northing:	7,246,037.320 usft	Latitude:	40.192315
	+E/-W	0.00 usft	Easting:	2,242,752.030 usft	Longitude:	-109.343608
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	5,511.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010-14	08/19/13	10.76	66.00	52,233

Job Number	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	15.00	

Survey Program	Date	09/13/13			
From (')	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	10,870.00	Native Surveys (Wellbore #1)	MWD		
0.00	14,065.00	Survey #2 (Wellbore #1)	MWD		

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,870.00	26.90	16.60	10,850.44	5,309.44	60.59	87.90	81.28	0.00	0.00	0.00
10,907.00	29.00	15.40	10,883.12	5,342.12	77.26	92.67	98.61	5.88	5.68	-3.24
10,939.00	32.40	13.60	10,910.63	5,369.63	93.08	96.75	114.95	11.01	10.63	-5.63
10,970.00	36.90	10.40	10,936.13	5,395.13	110.31	100.39	132.54	15.65	14.52	-10.32
11,002.00	41.10	8.00	10,961.00	5,420.00	130.19	103.59	152.56	13.95	13.13	-7.50
11,033.00	45.20	8.00	10,983.61	5,442.61	151.18	106.54	173.60	13.23	13.23	0.00
11,065.00	48.50	8.70	11,005.49	5,464.49	174.27	109.93	196.79	10.44	10.31	2.19
11,096.00	53.10	9.80	11,025.08	5,484.08	197.98	113.80	220.68	15.09	14.84	3.55



Phoenix Technology Services
Survey Report



Database:	RMR Compass DB	Local Co-ordinate Reference:	Well RW 43-20B
Company:	QEP Energy Company	TVD Reference:	WELL @ 5541.00usft (Original Well Elev)
Project:	Uintah Co., UT	MD Reference:	WELL @ 5541.00usft (Original Well Elev)
Site:	Sec.20-T7S-R23E	North Reference:	True
Well:	RW 43-20B	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Job Number	Wellbore #1		

Survey											
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
11,127.00	56.40	10.90	11,042.97	5,501.97	222.88	118.35	245.91	11.03	10.65	3.55	
11,158.00	58.90	12.50	11,059.55	5,518.55	248.52	123.66	272.05	9.17	8.06	5.16	
11,190.00	61.40	13.50	11,075.48	5,534.48	275.56	129.91	299.79	8.27	7.81	3.13	
11,221.00	65.10	15.10	11,089.43	5,548.43	302.37	136.75	327.46	12.79	11.94	5.16	
11,252.00	67.60	15.70	11,101.87	5,560.87	329.75	144.29	355.86	8.26	8.06	1.94	
11,283.00	68.50	16.00	11,113.46	5,572.45	357.41	152.15	384.61	3.04	2.90	0.97	
11,315.00	70.20	16.30	11,124.74	5,583.74	386.17	160.48	414.54	5.38	5.31	0.94	
11,346.00	72.40	18.20	11,134.68	5,593.68	414.21	169.19	443.88	9.17	7.10	6.13	
11,376.00	74.60	16.60	11,143.20	5,602.20	441.65	177.78	472.62	8.94	7.33	-5.33	
11,408.00	78.30	15.90	11,150.70	5,609.70	471.51	186.49	503.71	11.76	11.56	-2.19	
11,439.00	81.90	16.00	11,156.02	5,615.02	500.87	194.88	534.24	11.62	11.61	0.32	
11,471.00	84.90	16.20	11,159.70	5,618.70	531.41	203.69	566.02	9.40	9.38	0.63	
11,502.00	85.60	16.60	11,162.27	5,621.27	561.05	212.41	596.90	2.60	2.26	1.29	
11,531.00	86.90	17.50	11,164.17	5,623.17	588.71	220.90	625.82	5.45	4.48	3.10	
11,562.00	87.60	17.90	11,165.65	5,624.65	618.21	230.31	656.75	2.60	2.26	1.29	
11,593.00	87.70	17.70	11,166.92	5,625.92	647.70	239.78	687.69	0.72	0.32	-0.65	
11,625.00	87.80	17.90	11,168.18	5,627.18	678.14	249.56	719.63	0.70	0.31	0.63	
11,656.00	88.00	17.60	11,169.32	5,628.32	707.65	259.00	750.57	1.16	0.65	-0.97	
11,688.00	87.10	17.40	11,170.68	5,629.68	738.14	268.61	782.51	2.88	-2.81	-0.63	
11,719.00	86.30	16.20	11,172.47	5,631.47	767.77	277.56	813.44	4.65	-2.58	-3.87	
11,751.00	86.20	16.00	11,174.56	5,633.56	798.45	286.41	845.37	0.70	-0.31	-0.63	
11,782.00	87.30	15.90	11,176.32	5,635.32	828.20	294.92	876.31	3.56	3.55	-0.32	
11,814.00	87.60	15.90	11,177.74	5,636.74	858.95	303.68	908.28	0.94	0.94	0.00	
11,845.00	88.00	16.00	11,178.93	5,637.93	888.73	312.19	939.25	1.33	1.29	0.32	
11,907.00	89.00	15.90	11,180.56	5,639.56	948.33	329.22	1,001.22	1.62	1.61	-0.16	
11,939.00	88.90	16.20	11,181.14	5,640.14	979.07	338.07	1,033.21	0.99	-0.31	0.94	
11,971.00	88.60	16.10	11,181.84	5,640.84	1,009.80	346.97	1,065.20	0.99	-0.94	-0.31	
12,033.00	88.80	15.60	11,183.25	5,642.25	1,069.43	363.90	1,127.17	0.87	0.32	-0.81	
12,065.00	89.20	15.20	11,183.81	5,642.81	1,100.28	372.39	1,159.17	1.77	1.25	-1.25	
12,127.00	89.10	15.20	11,184.73	5,643.73	1,160.10	388.65	1,221.16	0.16	-0.16	0.00	
12,158.00	89.00	15.10	11,185.24	5,644.24	1,190.02	396.75	1,252.16	0.46	-0.32	-0.32	
12,221.00	89.10	13.20	11,186.28	5,645.28	1,251.10	412.14	1,315.14	3.02	0.16	-3.02	
12,252.00	89.50	12.20	11,186.66	5,645.66	1,281.33	418.96	1,346.11	3.47	1.29	-3.23	
12,315.00	91.10	13.00	11,186.33	5,645.33	1,342.81	432.70	1,409.05	2.84	2.54	1.27	
12,347.00	92.00	14.20	11,185.47	5,644.47	1,373.90	440.22	1,441.03	4.69	2.81	3.75	
12,409.00	89.20	15.40	11,184.82	5,643.82	1,433.84	456.06	1,503.02	4.91	-4.52	1.94	
12,473.00	87.40	14.20	11,186.72	5,645.72	1,495.68	472.40	1,566.98	3.38	-2.81	-1.88	
12,504.00	86.40	13.50	11,188.39	5,647.39	1,525.74	479.81	1,597.93	3.94	-3.23	-2.26	
12,536.00	86.40	13.20	11,190.40	5,649.40	1,556.81	487.18	1,629.86	0.94	0.00	-0.94	
12,567.00	87.50	12.80	11,192.05	5,651.05	1,586.97	494.15	1,660.79	3.78	3.55	-1.29	
12,599.00	88.40	13.10	11,193.20	5,652.20	1,618.14	501.31	1,692.75	2.96	2.81	0.94	
12,630.00	88.90	12.90	11,193.93	5,652.93	1,648.34	508.28	1,723.72	1.74	1.61	-0.65	



Phoenix Technology Services
Survey Report



Database:	RMR Compass DB	Local Co-ordinate Reference:	Well RW 43-20B
Company:	QEP Energy Company	TVD Reference:	WELL @ 5541.00usft (Original Well Elev)
Project:	Uintah Co., UT	MD Reference:	WELL @ 5541.00usft (Original Well Elev)
Site:	Sec.20-T7S-R23E	North Reference:	True
Well:	RW 43-20B	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Job Number	Wellbore #1		

Survey											
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
12,662.00	89.30	12.80	11,194.43	5,653.43	1,679.53	515.40	1,755.70	1.29	1.25	-0.31	
12,693.00	87.70	12.50	11,195.24	5,654.24	1,709.77	522.19	1,786.66	5.25	-5.16	-0.97	
12,724.00	87.10	12.30	11,196.65	5,655.65	1,740.01	528.84	1,817.60	2.04	-1.94	-0.65	
12,756.00	87.00	11.70	11,198.29	5,657.29	1,771.27	535.48	1,849.51	1.90	-0.31	-1.88	
12,787.00	86.90	10.90	11,199.94	5,658.94	1,801.63	541.55	1,880.40	2.60	-0.32	-2.58	
12,819.00	86.80	10.50	11,201.70	5,660.70	1,833.02	547.48	1,912.26	1.29	-0.31	-1.25	
12,851.00	86.80	11.20	11,203.49	5,662.49	1,864.40	553.49	1,944.13	2.18	0.00	2.19	
12,882.00	86.70	11.80	11,205.25	5,664.25	1,894.73	559.66	1,975.02	1.96	-0.32	1.94	
12,914.00	87.50	12.00	11,206.86	5,665.86	1,926.00	566.25	2,006.93	2.58	2.50	0.63	
12,945.00	89.50	12.90	11,207.68	5,666.68	1,956.26	572.93	2,037.89	7.07	6.45	2.90	
12,977.00	87.30	12.40	11,208.57	5,667.57	1,987.47	579.94	2,069.85	7.05	-6.88	-1.56	
13,008.00	86.30	12.70	11,210.30	5,669.30	2,017.68	586.66	2,100.77	3.37	-3.23	0.97	
13,040.00	87.60	13.40	11,212.00	5,671.00	2,048.81	593.88	2,132.71	4.61	4.06	2.19	
13,071.00	90.10	14.60	11,212.62	5,671.62	2,078.88	601.38	2,163.69	8.94	8.06	3.87	
13,103.00	90.00	14.80	11,212.60	5,671.60	2,109.83	609.50	2,195.69	0.70	-0.31	0.63	
13,134.00	87.20	14.50	11,213.35	5,672.35	2,139.81	617.33	2,226.68	9.08	-9.03	-0.97	
13,166.00	87.30	17.10	11,214.89	5,673.89	2,170.57	626.04	2,258.64	8.12	0.31	8.13	
13,197.00	85.30	13.80	11,216.89	5,675.89	2,200.38	634.28	2,289.56	12.43	-6.45	-10.65	
13,229.00	83.50	12.70	11,220.01	5,679.01	2,231.38	641.58	2,321.40	6.58	-5.63	-3.44	
13,260.00	84.40	12.20	11,223.28	5,682.28	2,261.48	648.22	2,352.19	3.32	2.90	-1.61	
13,292.00	84.40	12.10	11,226.40	5,685.40	2,292.61	654.93	2,384.00	0.31	0.00	-0.31	
13,323.00	85.40	12.10	11,229.16	5,688.16	2,322.80	661.40	2,414.84	3.23	3.23	0.00	
13,355.00	87.30	12.20	11,231.20	5,690.20	2,354.02	668.12	2,446.73	5.95	5.94	0.31	
13,386.00	89.50	11.90	11,232.06	5,691.06	2,384.32	674.59	2,477.68	7.16	7.10	-0.97	
13,418.00	90.10	11.50	11,232.17	5,691.17	2,415.66	681.08	2,509.62	2.25	1.88	-1.25	
13,449.00	86.50	9.40	11,233.09	5,692.09	2,446.12	686.70	2,540.50	13.44	-11.61	-6.77	
13,481.00	84.70	7.80	11,235.55	5,694.55	2,477.67	691.47	2,572.21	7.52	-5.63	-5.00	
13,512.00	84.30	7.00	11,238.52	5,697.52	2,508.27	695.44	2,602.79	2.87	-1.29	-2.58	
13,544.00	85.30	5.80	11,241.42	5,700.42	2,539.94	698.99	2,634.30	4.87	3.13	-3.75	
13,575.00	86.80	6.70	11,243.55	5,702.55	2,570.68	702.36	2,664.87	5.64	4.84	2.90	
13,607.00	87.70	6.80	11,245.09	5,704.09	2,602.42	706.12	2,696.50	2.83	2.81	0.31	
13,638.00	87.70	6.60	11,246.33	5,705.33	2,633.18	709.73	2,727.15	0.64	0.00	-0.65	
13,670.00	88.70	7.10	11,247.34	5,706.34	2,664.94	713.55	2,758.81	3.49	3.13	1.56	
13,733.00	88.80	5.90	11,248.71	5,707.71	2,727.52	720.68	2,821.10	1.91	0.16	-1.90	
13,765.00	86.20	3.80	11,250.11	5,709.11	2,759.37	723.38	2,852.57	10.44	-8.13	-6.56	
13,828.00	85.60	2.00	11,254.61	5,713.61	2,822.12	726.56	2,914.01	3.00	-0.95	-2.86	
13,860.00	88.80	3.00	11,256.18	5,715.18	2,854.05	727.95	2,945.21	10.48	10.00	3.13	
13,923.00	87.60	1.90	11,258.16	5,717.16	2,916.96	730.64	3,006.67	2.58	-1.90	-1.75	
13,954.00	82.70	2.10	11,260.78	5,719.78	2,947.82	731.72	3,036.76	15.82	-15.81	0.65	
14,010.00	83.20	2.80	11,267.65	5,726.65	3,003.35	734.10	3,091.01	1.53	0.89	1.25	
Projection To Bit											
14,065.00	83.20	2.80	11,274.16	5,733.16	3,057.89	736.77	3,144.39	0.00	0.00	0.00	



Phoenix Technology Services
Survey Report



Database: RMR Compass DB Company: QEP Energy Company Project: Uintah Co., UT Site: Sec.20-T7S-R23E Well: RW 43-20B Wellbore: Wellbore #1 Job Number: Wellbore #1	Local Co-ordinate Reference: Well RW 43-20B TVD Reference: WELL @ 5541.00usft (Original Well Elev) MD Reference: WELL @ 5541.00usft (Original Well Elev) North Reference: True Survey Calculation Method: Minimum Curvature
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Survey Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
()	()	+N/-S	+E/-W	
14,065.00	11,274.16	3,057.89	736.77	Projection To Bit

Checked By: _____ Approved By: _____ Date: _____



Project: Uintah Co., UT
 Site: Sec.20-T7S-R23E
 Well: RW 43-20B
 Wellbore: Wellbore #1
 Design: Wellbore #1



WELL DETAILS: RW 43-20B

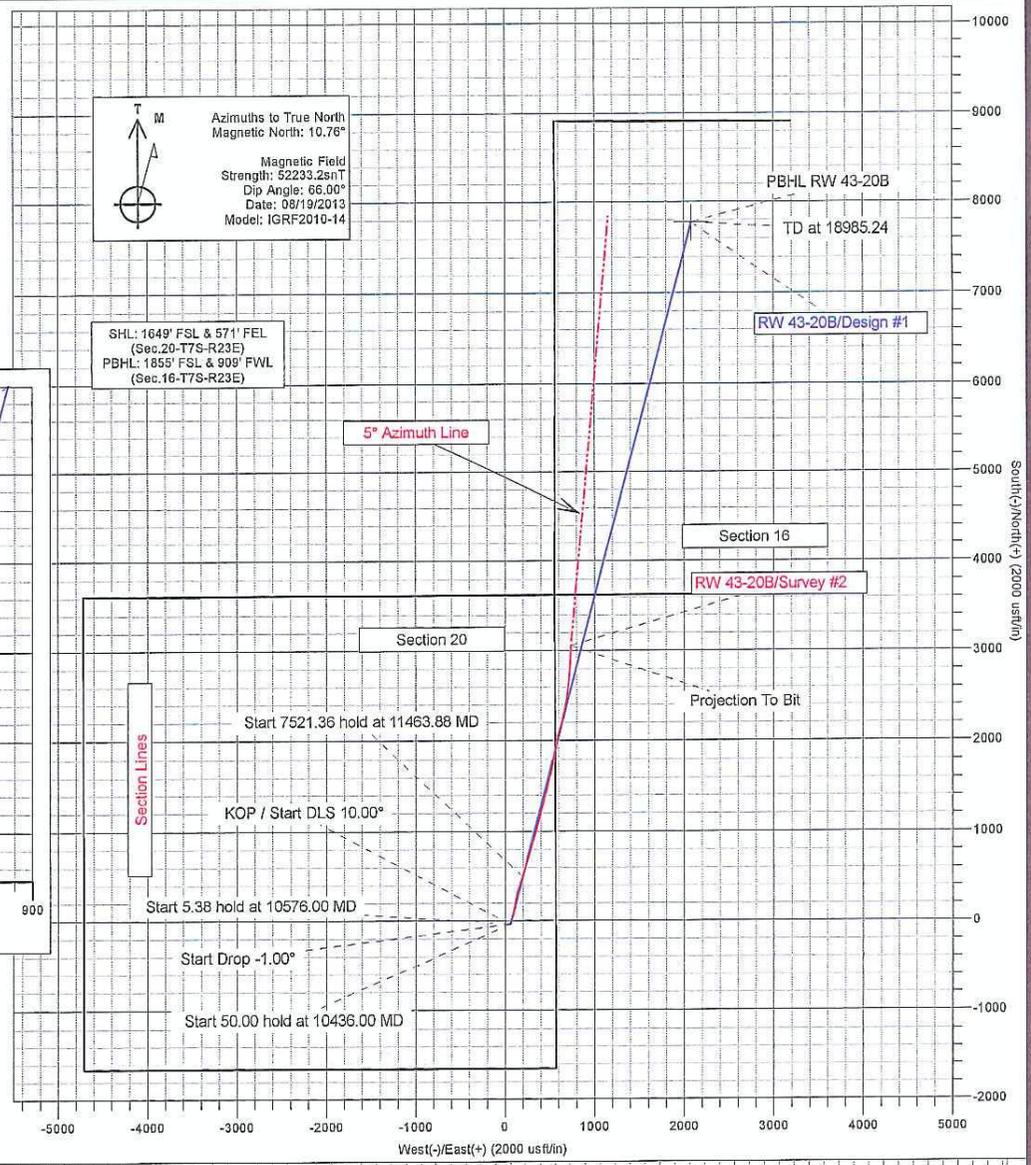
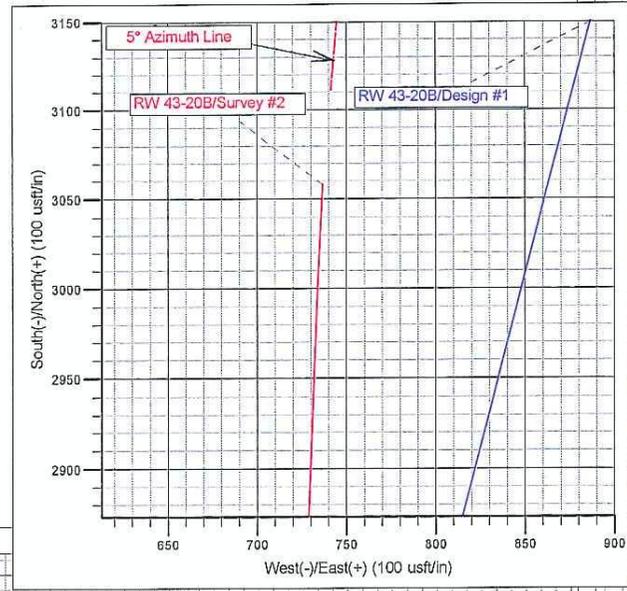
Ground Level:							Slot
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude		
0.00	0.00	7246037.320	2242752.030	40.192315	-109.343608		

WELLBORE TARGET DETAILS (LAT/LONG)

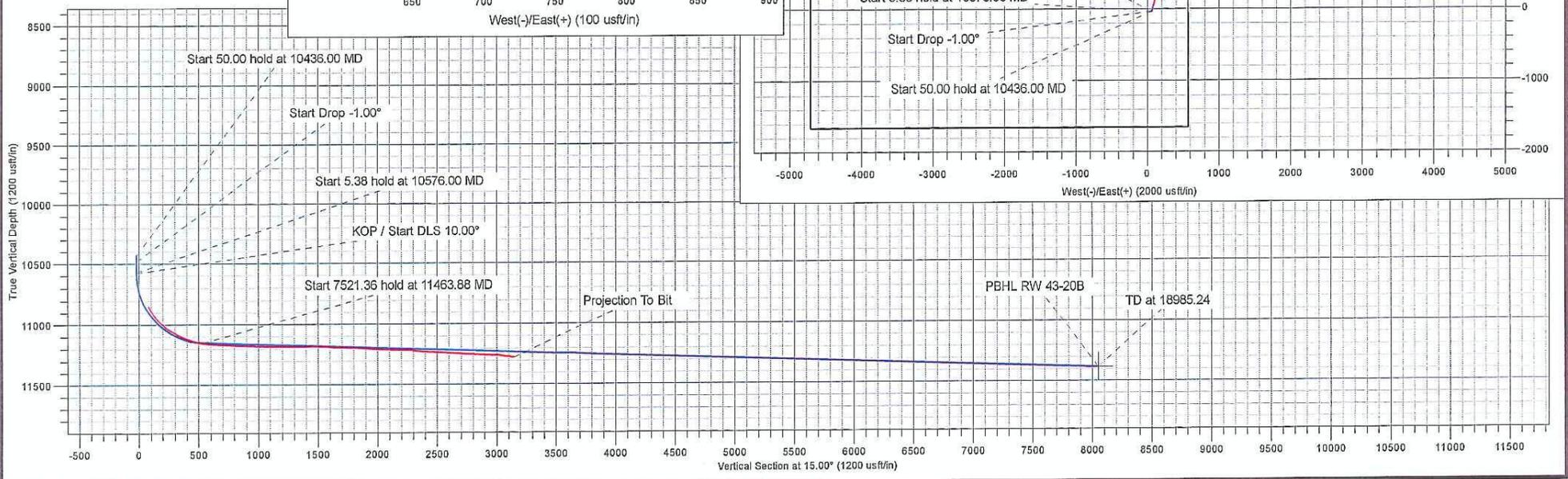
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape Point
PBHL RW 43-20B	11381.00	7777.63	2084.01	40.213666	-109.336149	

Azimuths to True North
 Magnetic North: 10.76°
 Magnetic Field
 Strength: 52233.2snT
 Dip Angle: 66.00°
 Date: 08/19/2013
 Model: IGRF2010-14

SHL: 1649' FSL & 571' FEL
 (Sec.20-T7S-R23E)
 PBHL: 1855' FSL & 908' FWL
 (Sec.16-T7S-R23E)



Survey: Survey #2 (RW 43-20B/Wellbore #1)
 Created By: M. Ramich
 Date: 10:58, October 16 2013



API Well Number: 43047517210000

RECEIVED: NOV. 25, 2013