

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 34-20BGR					
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 Oil 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@qepres.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		473 FSL 1856 FEL		SWSE	20	7.0 S	23.0 E	S			
Top of Uppermost Producing Zone		473 FSL 1856 FEL		SWSE	20	7.0 S	23.0 E	S			
At Total Depth		473 FSL 1856 FEL		SWSE	20	7.0 S	23.0 E	S			
21. COUNTY UINTAH			22. DISTANCE TO NEAREST LEASE LINE (Feet) 473			23. NUMBER OF ACRES IN DRILLING UNIT 40					
27. ELEVATION - GROUND LEVEL 5527			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 1248			26. PROPOSED DEPTH MD: 6379 TVD: 6379					
28. BOND NUMBER ESB000024			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 49-251 - 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	8.625	0 - 3819	32.0	Unknown	0.0	Halliburton Light , Type Unknown		160	2.89	11.0
							Halliburton Premium , Type Unknown		160	1.49	13.5
PROD	7.875	5.5	0 - 6379	17.0	N-80 LT&C	9.5	Halliburton Light , Type Unknown		330	2.95	11.0
							Halliburton Premium , Type Unknown		382	1.48	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 Jan Nelson				TITLE Permit Agent			PHONE 435 781-4331				
SIGNATURE				DATE 11/05/2012			EMAIL jan.nelson@qepres.com				
API NUMBER ASSIGNED 43047532990000				APPROVAL			 Permit Manager				

QEP ENERGY COMPANY

RW 34-20BGR New Vertical Well Summarized Procedure

1. MIRU.
2. Drill 12 ¼" surface hole to 200', then drill 11" to 3,819'.
3. Run 8 5/8", 32#, HCK-55, LTC casing and cement to surface.
4. NU rig's 3,000 WP rated BOP. Test BOP's and surface casing.
5. PU straight hole BHA, drill out surface casing and 10' of new formation, run FIT.
6. Drill 7 7/8" hole to 6,379'.
7. TOOH, MIRU Loggers.
8. Log from surface casing to TD.
9. RDMO Loggers.
10. TIH, Circulate.
11. TOOH & LDDP.
12. PU and run 5 1/2", 17.0#, N-80, LTC casing to TD, cement casing.
13. ND BOP's.
14. RDMOL.

CONFIDENTIAL

ONSHORE OIL & GAS ORDER NO. 1
QEP ENERGY COMPANY
RW 34-20BGR

DRILLING PROGRAM

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

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

1. Formation Tops

The estimated tops of important geologic markers are as follows:

<u>Formation</u>	<u>Depth</u>
Uinta	Surface
Green River	2,984'
Bird's Nest	3,259'
Mahogany Bench	3,769'
Eagle	4,879'
Gulch	5,359'
Mesa	5,579'
TD	6,379'

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

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

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
Oil	Eagle	4,879'
Oil	Gulch	5,359'
Oil	Mesa	5,579'

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

ONSHORE OIL & GAS ORDER NO. 1
QEP ENERGY COMPANY
RW 34-20BGR

DRILLING PROGRAM

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. A 3,000 psi double gate, 3,000 psi annular BOP (schematic included) from surface casing point to total depth.
- B. Functional test daily.
- C. All BOP connections subject to pressure shall be flanged, welded or clamped.
- D. 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.
- E. Upper and Lower Kelly cock valves with handles and safety valve and subs to fit all drill string connections.
- F. IBOP or float sub available.
- G. Fill up line must be installed above the uppermost preventer.
- H. All casing strings shall be pressure tested (0.2 psi/foot or 1500 psi, whichever is greater) prior to drilling the plug after cementing; test pressure shall not exceed the internal yield pressure of the casing.
- I. Ram type preventers and associated equipment shall be tested to the 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 3M system and individual components shall be operable as designed.

ONSHORE OIL & GAS ORDER NO. 1
QEP ENERGY COMPANY
RW 34-20BGR

DRILLING PROGRAM

4. Casing Design:

Hole Size	Csg. Size	Top (MD)	Bottom (MD)	Wt.	Grade	Thread	Cond.	MW
17-1/2"	14"	sfc	40'	Steel	Cond.	None	Used	Air
12-1/4" to 200'/11" to Surface TD	8-5/8"	sfc	3,819'	32.0	HCK-55	LTC	New	Air
7-7/8"	5-1/2"	sfc	6,379'	17.0	N-80	LTC	New	8-9.5 ppg

Casing Strengths:				Collapse	Burst	Tensile (min)
8-5/8"	32.0 lb.	HCK-55	LTC	3,740 psi	3,930 psi	452,000 lb.
5-1/2"	17.0 lb.	N-80	LTC	6,290 psi	7,740 psi	348,000 lb.

MINIMUM DESIGN FACTORS:

COLLAPSE: 1.125
BURST: 1.10
TENSION: 1.80

Area Fracture Gradient: 0.65 psi/foot
Maximum anticipated mud weight: 9.5 ppg
Maximum surface treating pressure: 4,000 psi
Over pull margin (minimum): 100,000 lbs

5. Cementing Program

14" Conductor:

Cement to surface with construction cement.

8-5/8" Surface Casing: sfc – 3,819' (MD)

Lead Slurry: 0' – 3,300'. 160 sks (555 cu ft) ECONOCEM V4 + 3.0 lb/sk Kol-Seal. Slurry wt: 11.0 ppg, Slurry yield: 2.89 ft³/sk, Slurry volume: 12-1/4" to 200', 11" to Surface TD and hole + 75% excess.

Tail Slurry: 3,300' – 3,819'. 160 sks (150 cu ft) EXPANDACEM V3 + 0.2% HR-800 + 1.0 lb/sk Granulite TR 1/4 + 0.13 lb/sk Poly-E-Flake. Slurry wt: 13.5 ppg, Slurry yield: 1.49 ft³/sk, Slurry volume: 11" to TD and hole + 75% excess.

ONSHORE OIL & GAS ORDER NO. 1
QEP ENERGY COMPANY
RW 34-20BGR

DRILLING PROGRAM

5-1/2" Production Casing: sfc – 6,379' (MD)

Lead Slurry: 0' – 4,500'. 330 sks (975 cu ft) Extendacem cement + 3.0 lb/sk Kol-Seal. Slurry wt: 11.0 ppg, Slurry yield: 2.95 ft³/sk, Slurry volume: 7-7/8" hole + 25% excess in open hole section.

Tail Slurry: 4,500' – 6,379'. 382 sks (566 cu ft) BONDCEM V1 + 0.2% HR-5 + 3.0 lb/sk Kol-Seal + 0.125 lb/sk Poly-E-Flake. Slurry wt: 13.5 ppg, Slurry yield: 1.48 ft³/sk, Slurry volume: 7-7/8" hole + 25% excess.

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

6. Auxiliary Equipment

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

Possibility of drilling surface hole with air or aerated fluid:

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 50' into the Mahogany Bench formation 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. **Blooie line discharge 100 feet from wellbore and securely anchored** – the blooie 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.

ONSHORE OIL & GAS ORDER NO. 1
QEP ENERGY COMPANY
RW 34-20BGR

DRILLING PROGRAM

3. **Automatic igniter or continuous pilot light on blooie 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 blooie line a minimum of 100 feet from the wellbore** – compressors located within 50 feet on the opposite side of the wellbore from the blooie 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.
 5. **Well Kill Fluid** – A suitable amount of water and weighting agents will be available in the reserve pit during air drilling operations to kill the well, if necessary. No overpressured zones are expected in the area.
 6. **Deflector on the end of the blooie line** – Questar will mount a deflector unit at the end of the blooie line for the purpose of changing the direction and velocity of the air and cuttings flow into the reserve pit. Changing the velocity and direction of the cuttings and air will preserve the pit liner. In the event the deflector washes out due to erosion caused by the sand blasting effect of the cuttings, there will be no problem because the deflector is mounted on the very end of the blooie. A washed out deflector will be easily replaced.
 7. **Flare Pit** – there will be no need of a flare pit during the surface hole air drilling operation because the blooie line is routed directly to the reserve pit. When the big rig arrives for the main drilling after setting surface casing, a flare box will be installed and all flare lines will be routed to the flare box.
- G. All other operations and equipment for air/gas drilling shall meet specifications in Onshore Order #2, Section III Requirements, subsection E. Special Drilling Operations and Onshore Order #1.
- H. Drilling below the 8-5/8" casing will be done with water based mud. Maximum anticipated mud weight is 9.5 ppg.
- I. No minimum quantity of weight material will be required to be kept on location.
- J. Gas detector will be used from surface casing depth to TD.

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

7. Testing, logging and coring program

- A. Cores – none anticipated
- B. DST – none anticipated

ONSHORE OIL & GAS ORDER NO. 1
QEP ENERGY COMPANY
RW 34-20BGR

DRILLING PROGRAM

- C. Logging – Mud logging –Surf Casing to TD
GR-SP-Induction, Neutron Density
- D. Formation and Completion Interval: Green River intervals, final determination of completion will be made by analysis of logs.
Stimulation – Stimulation will be designed for the particular area of interest as encountered.

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

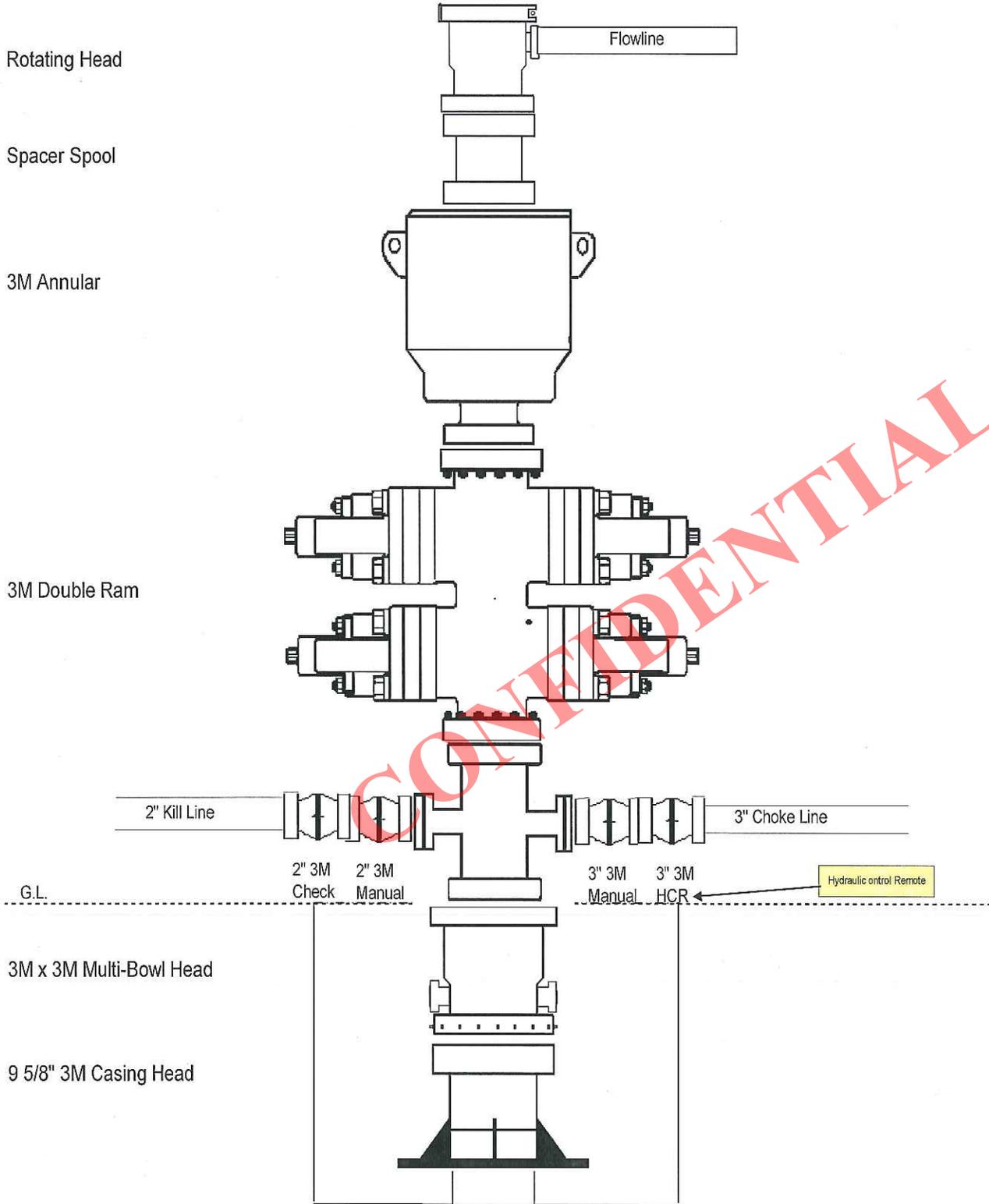
No abnormal temperatures or pressures are anticipated. No H₂S has been encountered in or known to exist from previous wells drilled to similar depths in the general area. Maximum anticipated bottom hole pressure equals approximately 2,300 psi. Maximum anticipated bottom hole temperature is 120° F.

CONFIDENTIAL

ONSHORE OIL & GAS ORDER NO. 1
QEP ENERGY COMPANY
RW 34-20BGR

DRILLING PROGRAM

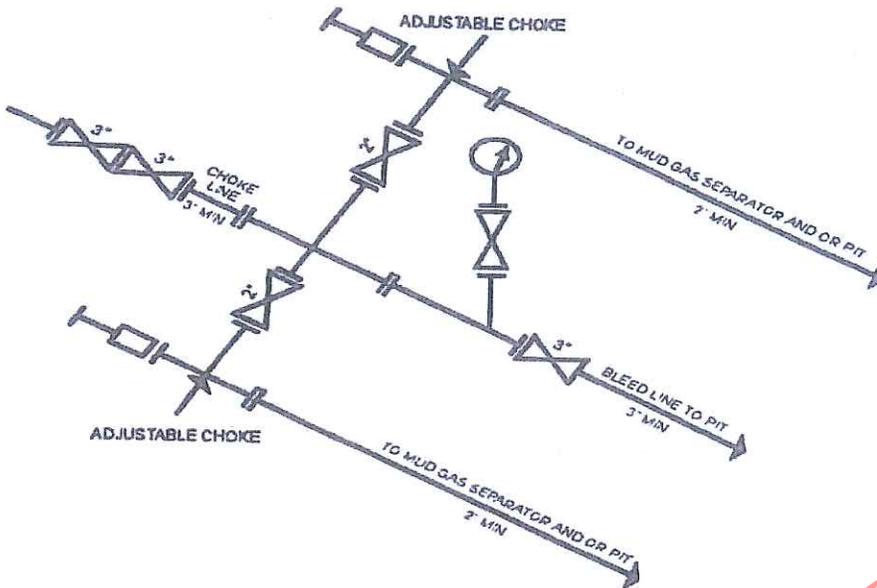
3M BOP STACK



CONFIDENTIAL

ONSHORE OIL & GAS ORDER NO. 1
QEP ENERGY COMPANY
RW 34-20BGR

DRILLING PROGRAM



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

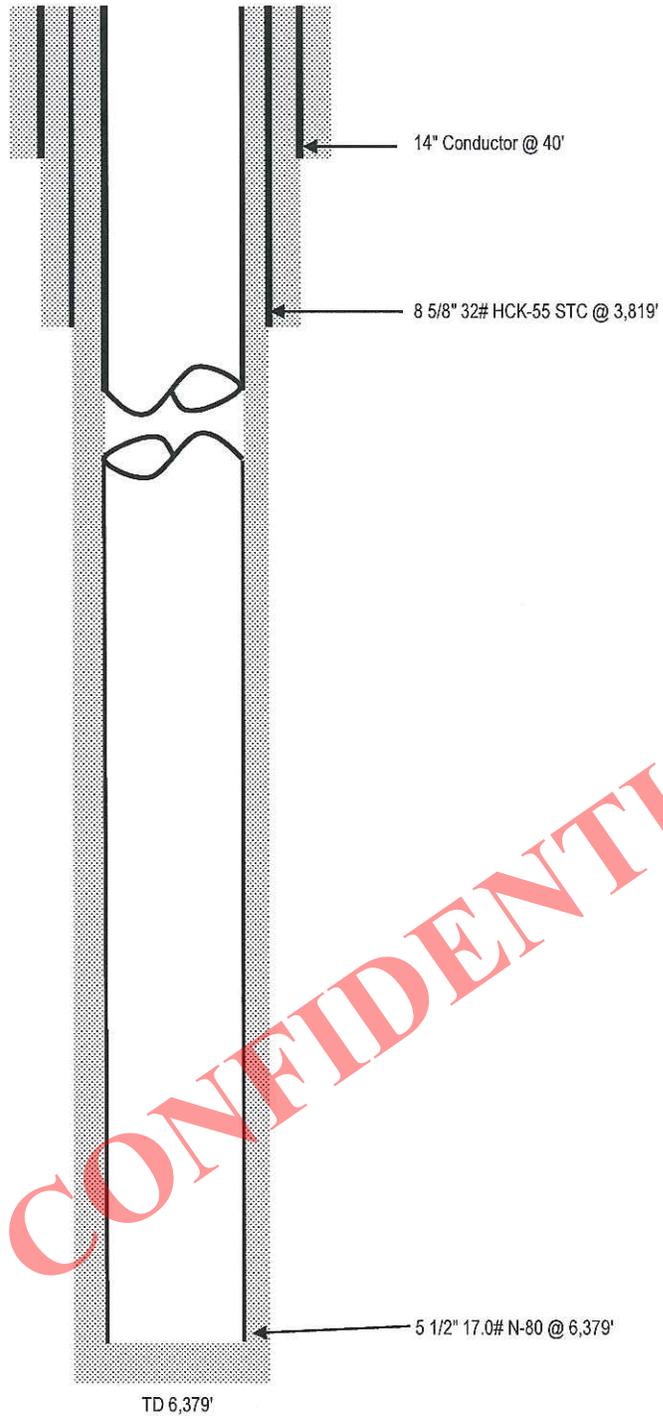
CONFIDENTIAL

Modified 10-26-2012 CRA

RW 34-20BGR
API # 43-047
Proposed WBD
Uinta Basin

NESE Sec. 20, T7S-R23E, Uintah Co, UT
LOCATION: 473' FSL, 1,856' FEL

KB 5,529'
GL 5,520'



TD 6,379'

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

QEP ENERGY COMPANY

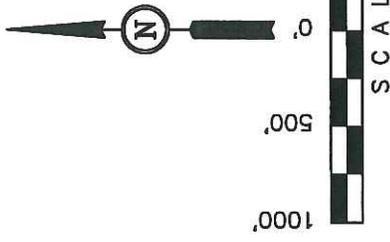
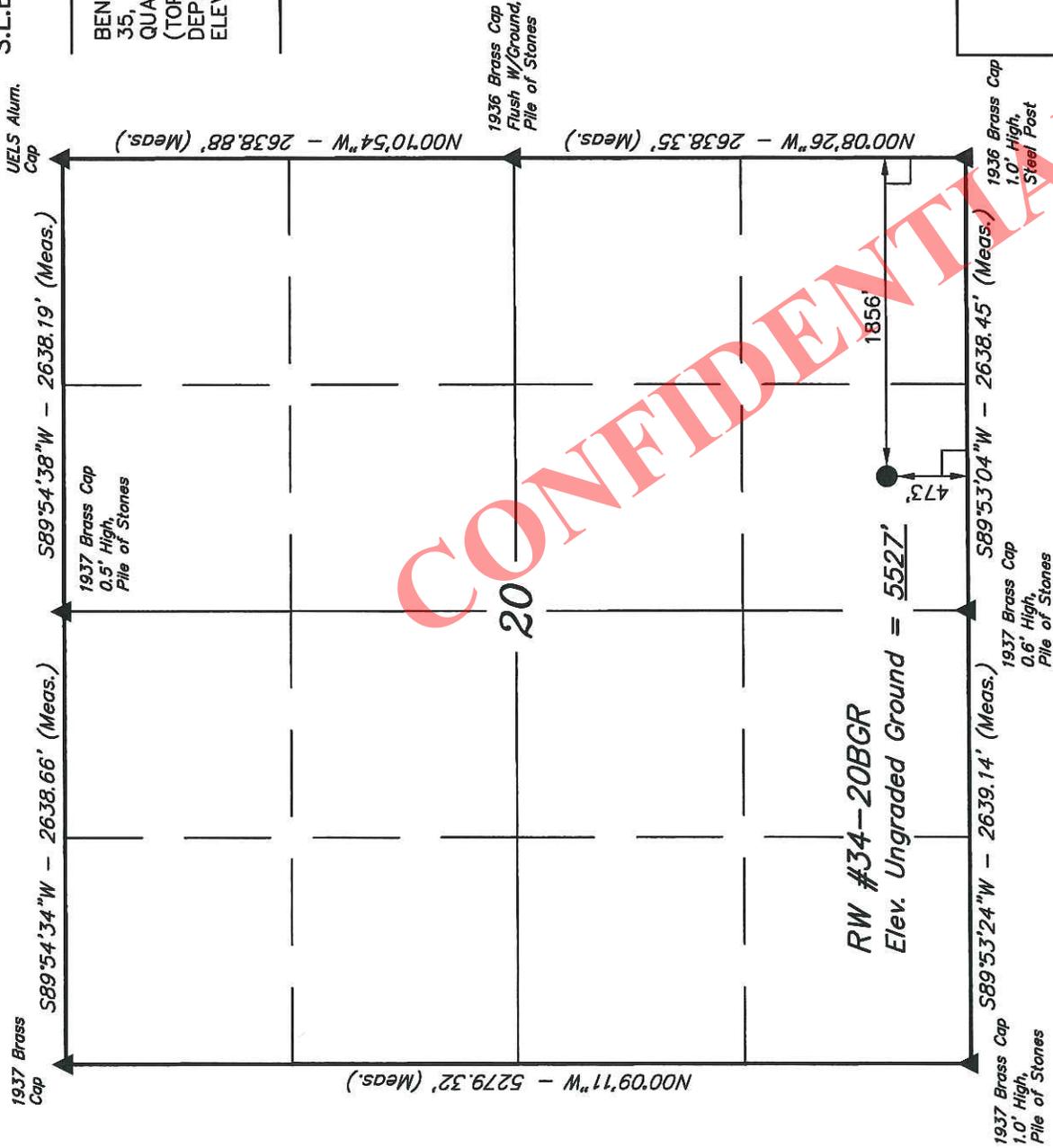
Well location, RW #34-20BGR, located as shown in the SW 1/4 SE 1/4 of Section 20, T7S, R23E, S.L.B.&M., Uintah County, Utah.

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.

Robert H. ...
 REGISTERED LAND SURVEYOR
 REGISTRATION NO. 161319
 STATE OF UTAH 06-11-12

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

SCALE 1" = 1000'	DATE SURVEYED: 05-29-12	DATE DRAWN: 05-31-12
PARTY G.O. S.R. R.L.L.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE	

NAD 83 (SURFACE LOCATION)
LATITUDE = 40°11'20.71" (40.189086)
LONGITUDE = 109°20'53.53" (109.348203)
NAD 27 (SURFACE LOCATION)
LATITUDE = 40°11'20.84" (40.189122)
LONGITUDE = 109°20'51.07" (109.347519)

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

CONFIDENTIAL

QEP ENERGY COMPANY

RW #34-20BGR

LOCATED IN UINTAH COUNTY, UTAH

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

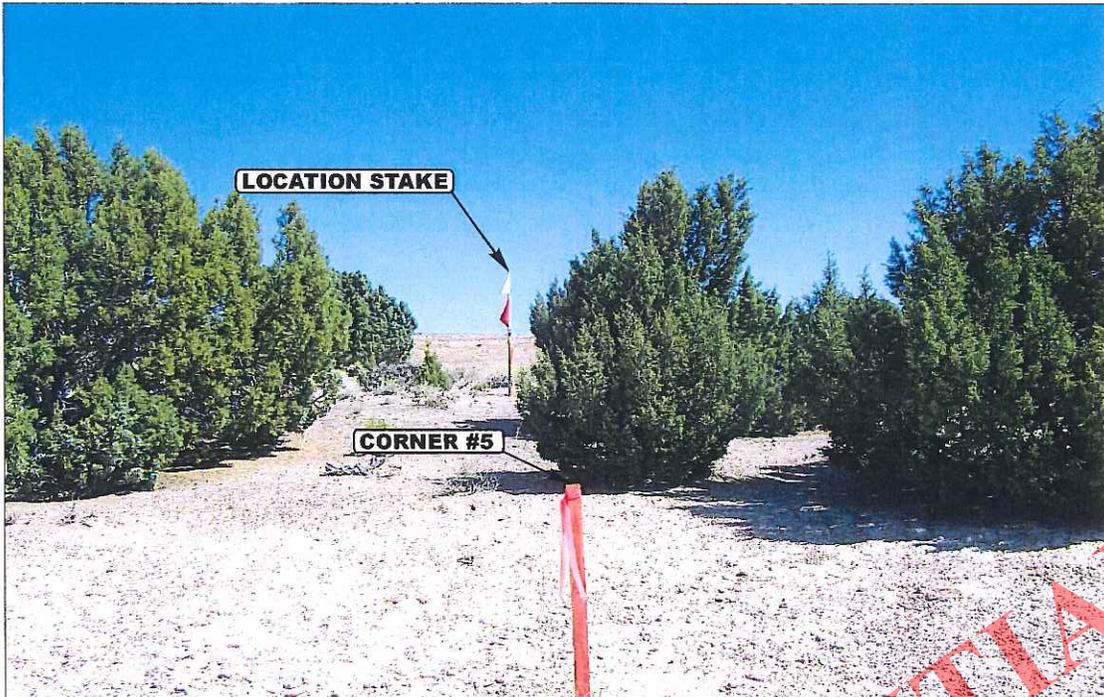


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: SOUTHWESTERLY



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

LOCATION PHOTOS

06 **08** **12**
MONTH DAY YEAR

PHOTO

TAKEN BY: G.O.

DRAWN BY: A.T.

REVISED: 00-00-00

QEP ENERGY COMPANY
RW #34-20BGR
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 0.2 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE SOUTHWEST; FOLLOW ROAD FLAGS IN A SOUTHWESTERLY, THEN NORTHWESTERLY DIRECTION APPROXIMATELY 1,347' TO THE PROPOSED LOCATION

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 24.3 MILES.

CONFIDENTIAL

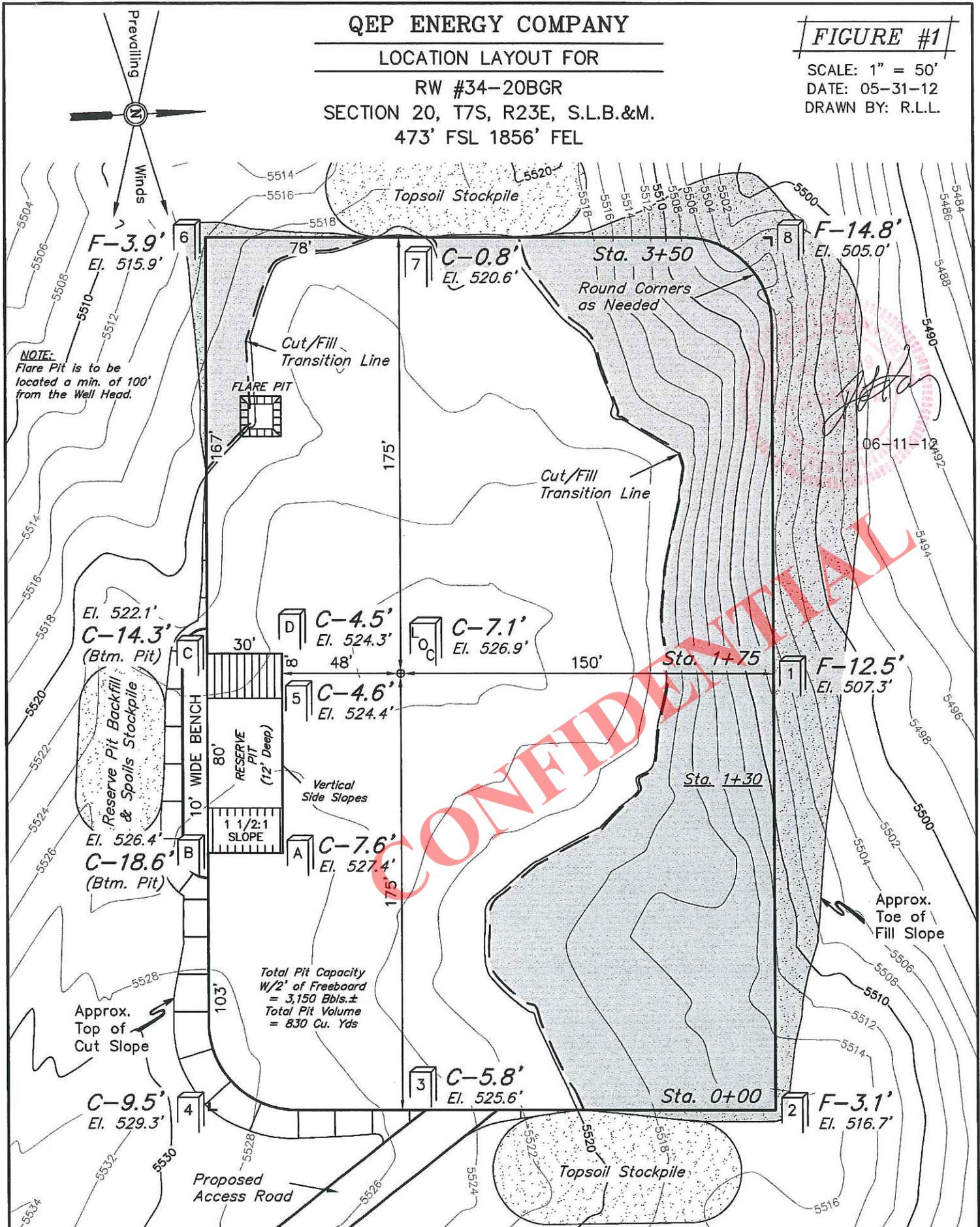
QEP ENERGY COMPANY

LOCATION LAYOUT FOR

RW #34-20BGR
SECTION 20, T7S, R23E, S.L.B.&M.
473' FSL 1856' FEL

FIGURE #1

SCALE: 1" = 50'
DATE: 05-31-12
DRAWN BY: R.L.L.



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

Total Pit Capacity
W/2' of Freeboard
= 3,150 Bbls.±
Total Pit Volume
= 830 Cu. Yds

Elev. Ungraded Ground At Loc. Stake = 5526.9'
FINISHED GRADE ELEV. AT LOC. STAKE = 5519.8'

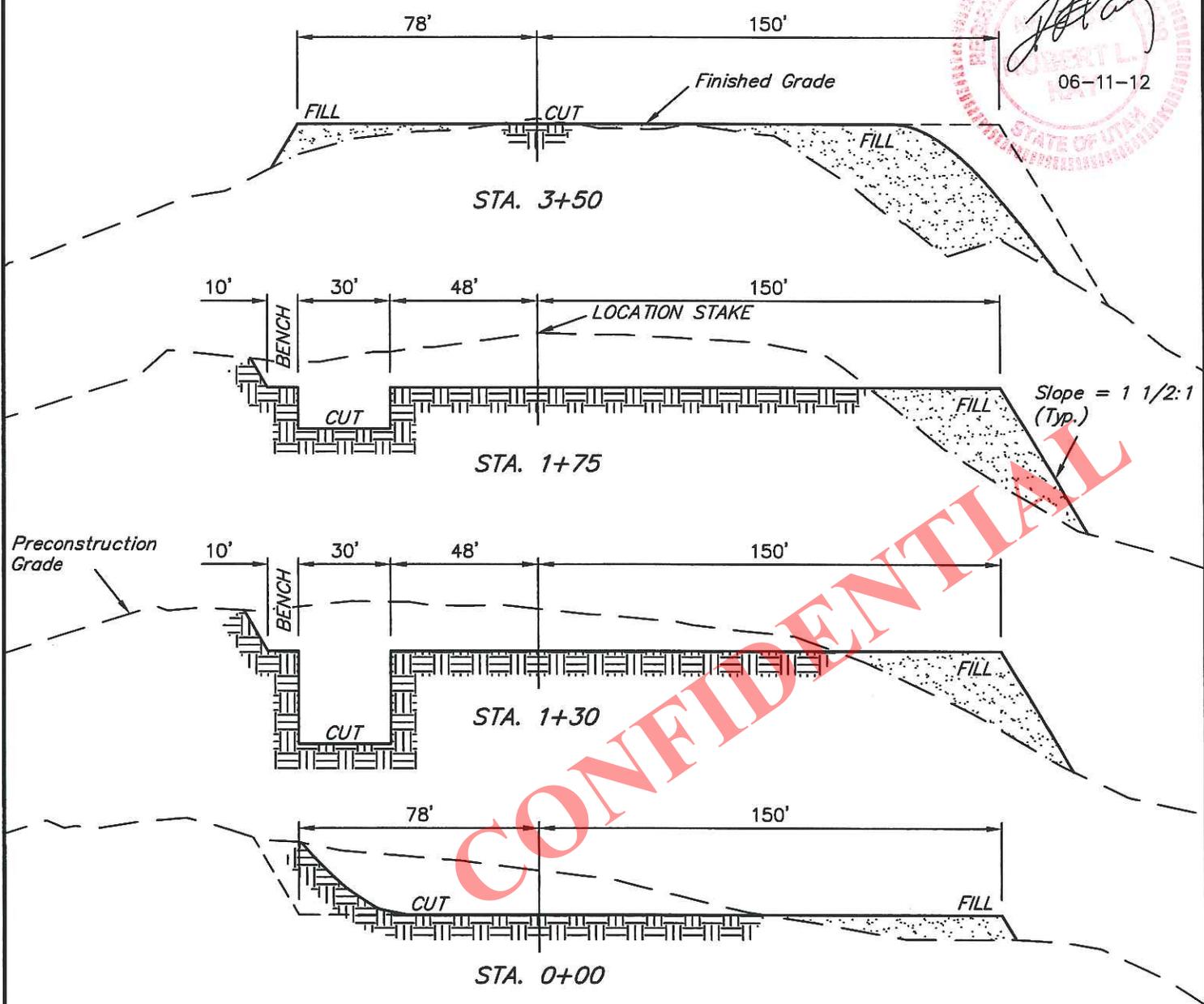
UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

QEP ENERGY COMPANY

FIGURE #2

TYPICAL CROSS SECTIONS FOR
 RW #34-20BGR
 SECTION 20, T7S, R23E, S.L.B.&M.
 473' FSL 1856' FEL

X-Section Scale
 1" = 20'
 1" = 50'
 DATE: 05-31-12
 DRAWN BY: R.L.L.



CONFIDENTIAL

NOTE:

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

APPROXIMATE ACREAGES

WELL SITE DISTURBANCE = ± 2.408 ACRES
 ACCESS ROAD DISTURBANCE = ± 0.928 ACRES
 PIPELINE DISTURBANCE = ± 0.089 ACRES
 TOTAL = ± 3.425 ACRES

*** NOTE:**

FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

(6") Topsoil Stripping = 1,780 Cu. Yds.
 Remaining Location = 8,310 Cu. Yds.
TOTAL CUT = 10,090 CU. YDS.
FILL = 7,890 CU. YDS.

EXCESS MATERIAL = 2,200 Cu. Yds.
 Topsoil & Pit Backfill (1/2 Pit Vol.) = 2,200 Cu. Yds.
 EXCESS UNBALANCE (After Interim Rehabilitation) = 0 Cu. Yds.

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

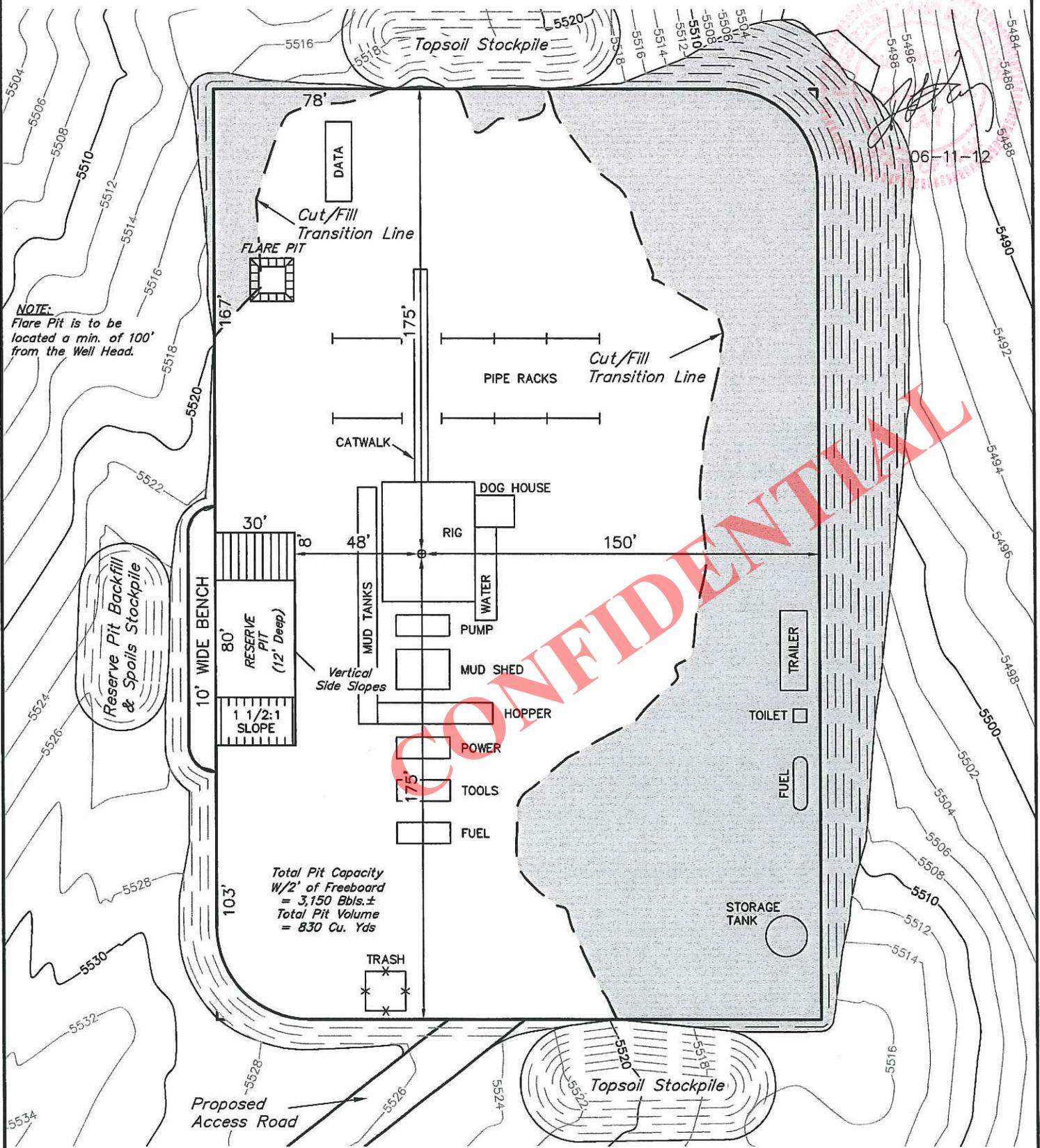
QEP ENERGY COMPANY

TYPICAL RIG LAYOUT FOR

RW #34-20BGR
SECTION 20, T7S, R23E, S.L.B.&M.
473' FSL 1856' FEL

FIGURE #3

SCALE: 1" = 50'
DATE: 05-31-12
DRAWN BY: R.L.L.



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

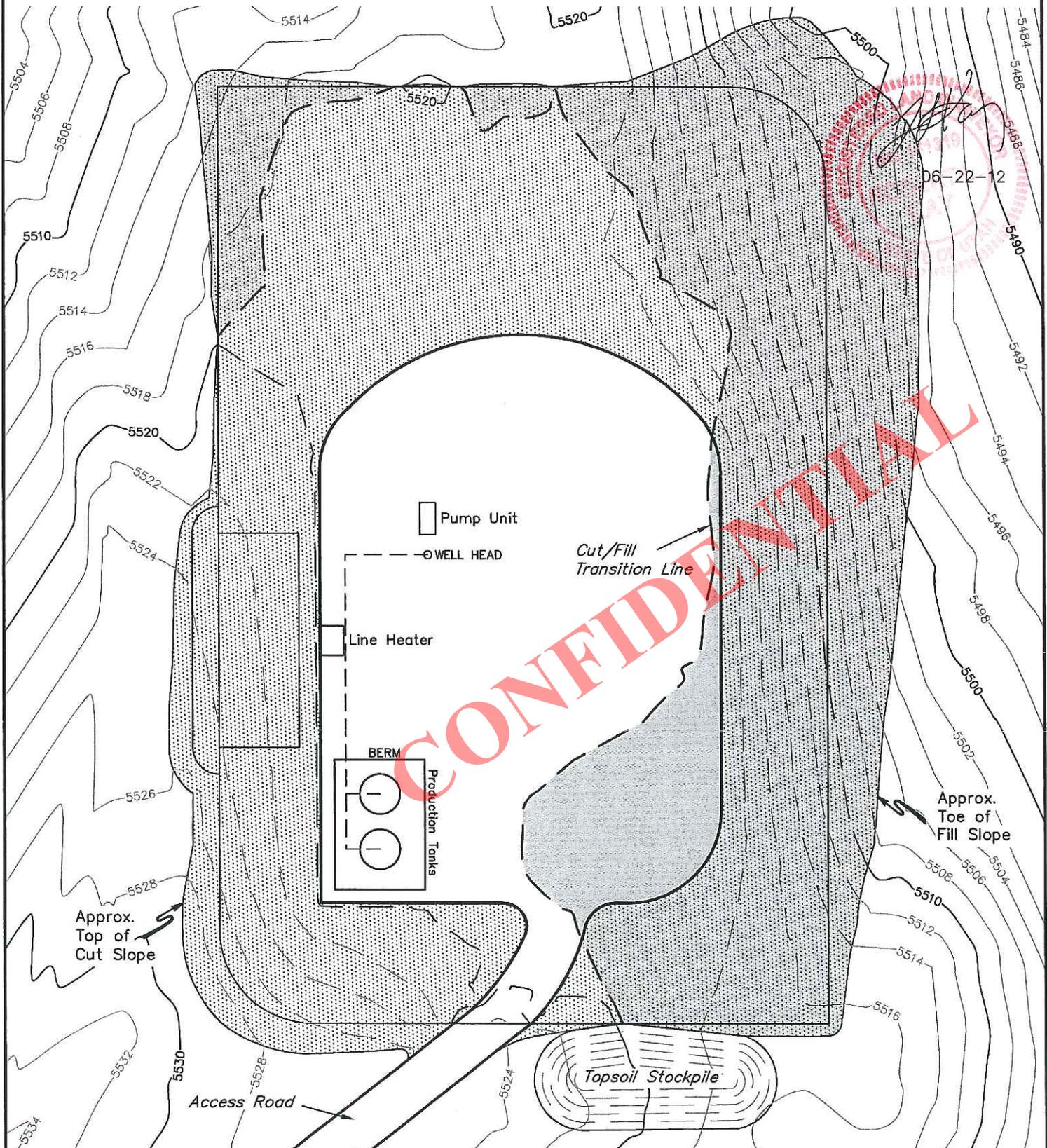
Total Pit Capacity
w/2' of Freeboard
= 3,150 Bbls.±
Total Pit Volume
= 830 Cu. Yds

CONFIDENTIAL

QEP ENERGY COMPANY
PRODUCTION FACILITY LAYOUT FOR
RW #34-20BGR
SECTION 20, T7S, R23E, S.L.B.&M.
473' FSL 1856' FEL

FIGURE #4

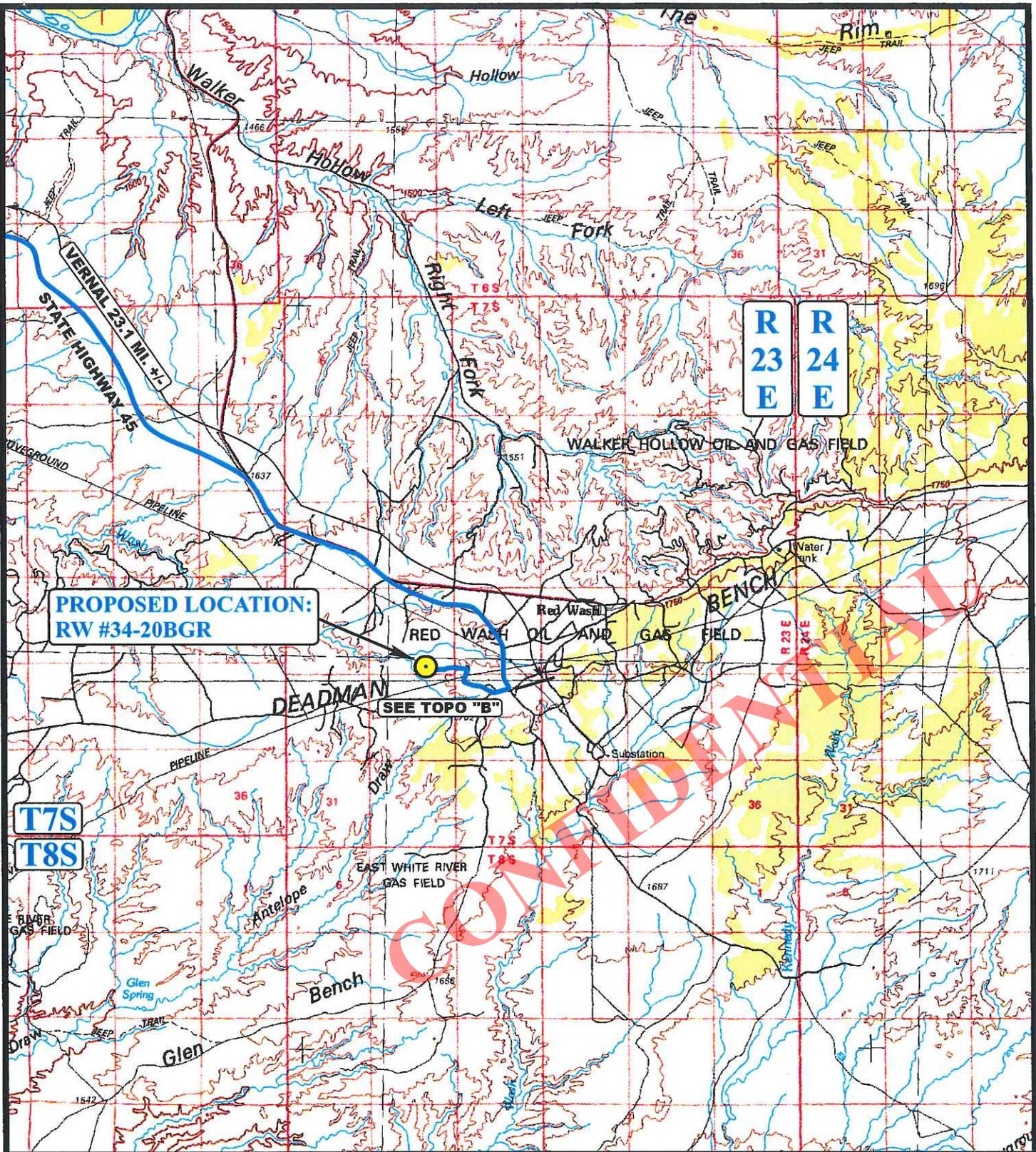
SCALE: 1" = 50'
DATE: 05-31-12
DRAWN BY: R.L.L.
REV: 06-22-12



RECLAIMED AREA

APPROXIMATE ACREAGES
UN-RECLAIMED = ± 0.709 ACRES

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



**PROPOSED LOCATION:
RW #34-20BGR**

SEE TOPO "B"

**T7S
T8S**

**R 23
E R 24
E**

LEGEND:
 **PROPOSED LOCATION**



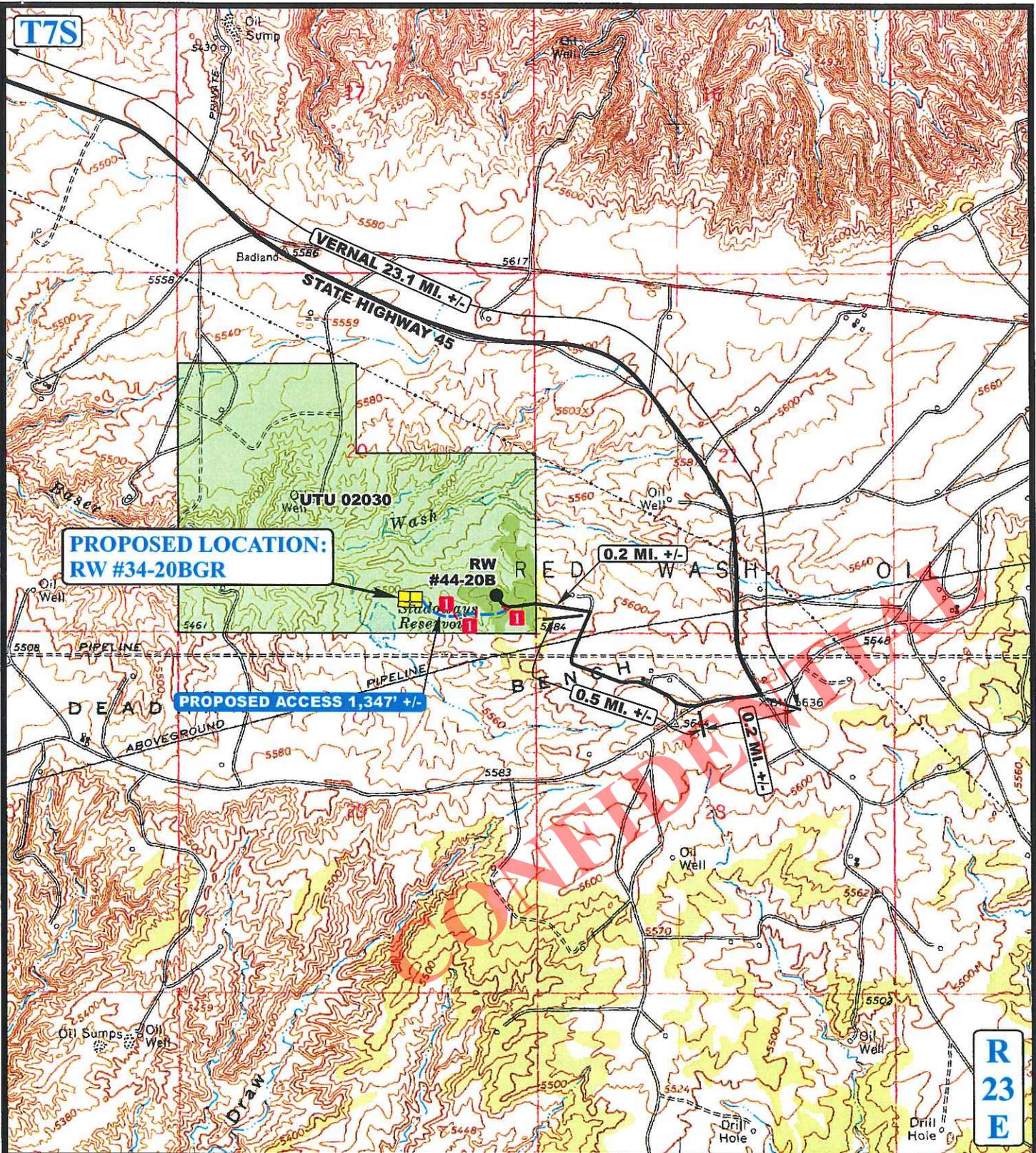
QEP ENERGY COMPANY

**RW #34-20BGR
SECTION 20, T7S, R23E, S.L.B.&M.
473' FSL 1856' FEL**

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

TOPOGRAPHIC MAP
 06 08 12
 MONTH DAY YEAR
 SCALE: 1:100,000 DRAWN BY: A.T. REVISED: 00-00-00





LEGEND:

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

QEP ENERGY COMPANY

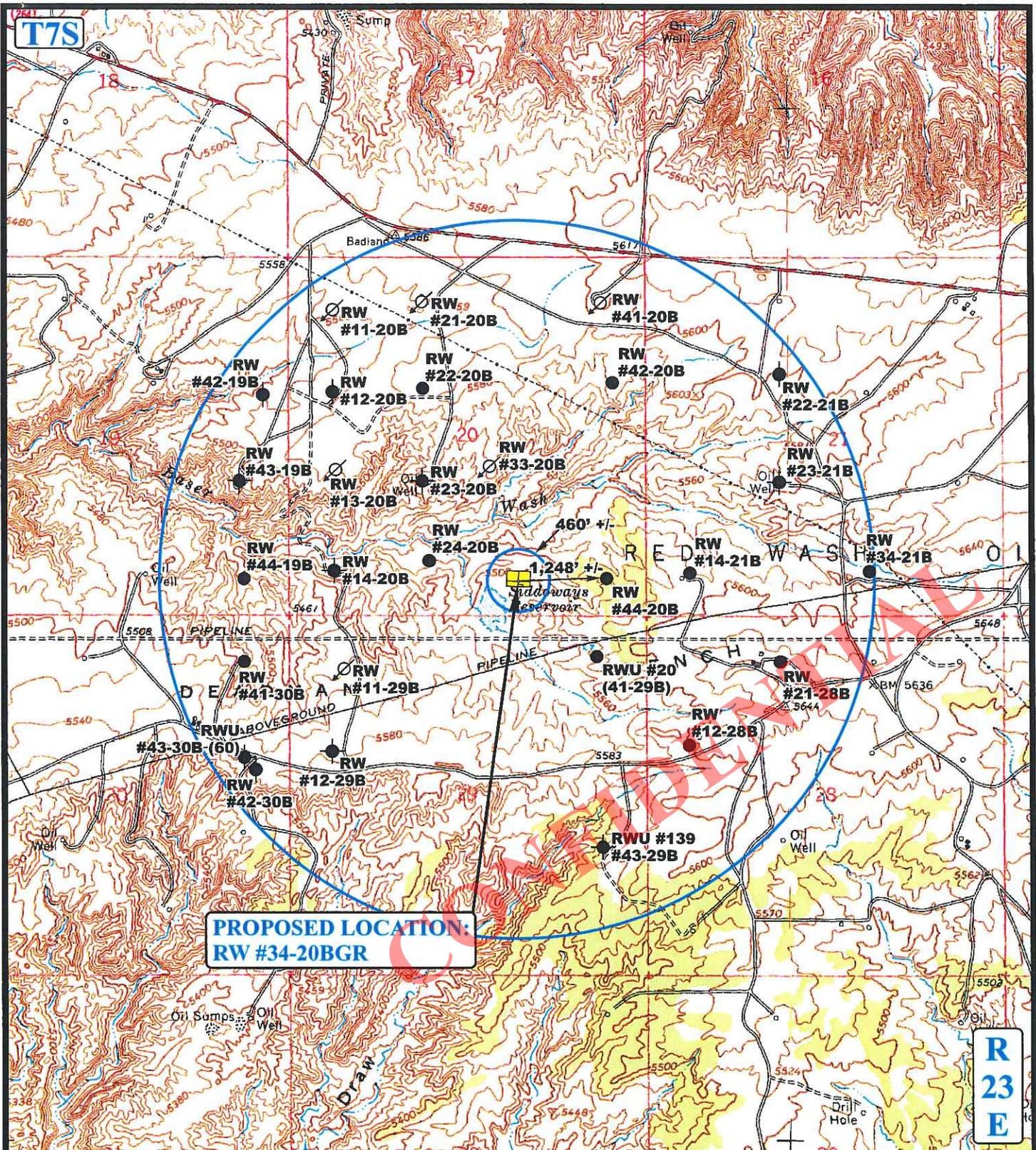
RW #34-20BGR
SECTION 20, T7S, R23E, S.L.B.&M.
473' FSL 1856' FEL

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



TOPOGRAPHIC MAP **06 08 12**
 MONTH DAY YEAR
 SCALE: 1" = 2000' DRAWN BY: A.T. REVISED: 00-00-00

B
TOPO



PROPOSED LOCATION:
RW #34-20BGR

LEGEND:

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



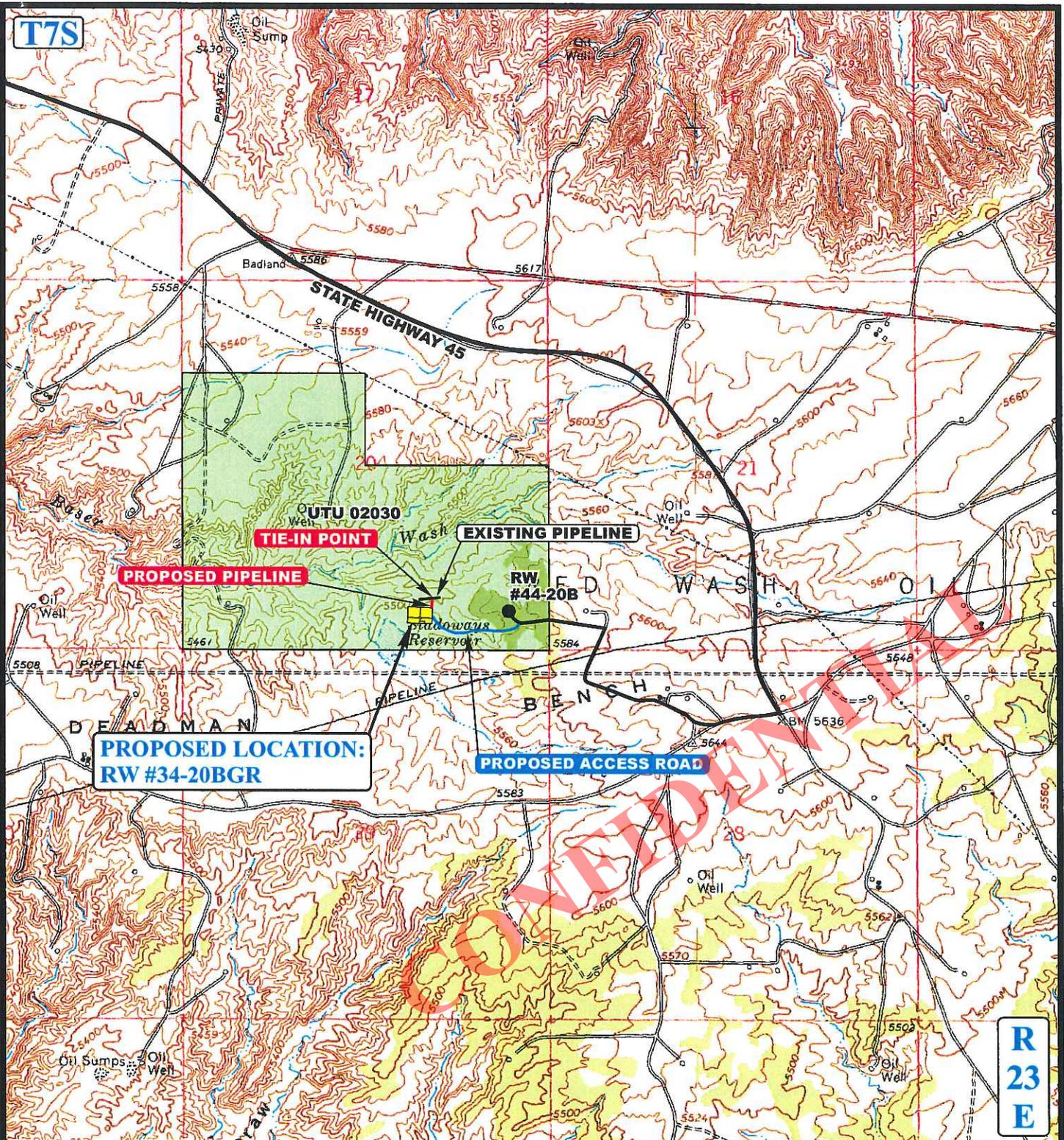
QEP ENERGY COMPANY

RW #34-20BGR
SECTION 20, T7S, R23E, S.L.B.&M.
473' FSL 1856' FEL

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

TOPOGRAPHIC MAP
 06 08 12
 MONTH DAY YEAR
 SCALE: 1" = 2000' DRAWN BY: A.T. REVISED: 00-00-00

C
TOPO



APPROXIMATE TOTAL PIPELINE DISTANCE = 129' +/-

LEGEND:

- PROPOSED ACCESS ROAD
- - - - - EXISTING PIPELINE
- PROPOSED PIPELINE

QEP ENERGY COMPANY

**RW #34-20BGR
SECTION 20, T7S, R23E, S.L.B.&M.
473' FSL 1856' FEL**

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



TOPOGRAPHIC MAP 06 08 12
MONTH DAY YEAR
SCALE: 1" = 1000' DRAWN BY: A.T. REVISED: 00-00-00 **D**
TOPO

**QEP ENERGY COMPANY
RW 34-20BGR
SWSE, SECTION 20, T7S, R23E
UINTAH COUNTY, UT
LEASE # UTU-02030**

MULTI-POINT SURFACE USE & OPERATIONS PLAN

An onsite inspection was conducted for the RW 34-20BGR on July 10, 2012. Weather conditions were sunny at the time of the onsite. In attendance at the inspection were the following individuals:

Kevin Sadlier	Bureau of Land Management
Aaron Roe	Bureau of Land Management
Melissa Wardle	Bureau of Land Management
Jan Nelson	QEP Energy Company
Valyn Davis	QEP Energy Company
Eric Wickersham	QEP Energy Company
Ryan Angus	QEP Energy Company
Jeff Atwood	QEP Energy Company
Greg Olsen	Uintah Engineering & Land Surveying

1. Existing Roads:

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

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

-See attached TOPO Map "A".

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

2. Planned Access Roads:

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

The existing 2-track road will be upgraded. The proposed road upgrade is 1347' in length, 30' in width, containing approximately 0.928 acres.

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

Graveling or capping the roadbed will be performed as necessary to provide a well constructed safe road. Surface disturbance and vehicular traffic will be limited to the approved location and access route or, as proposed by the Operator.

The road surface and shoulders will be kept in a safe and usable condition and will be maintained in accordance with the original construction standards.

If culverts are needed, the location and size of the culverts will be proposed during the on-site. The operator will clean and maintain approved culverts as needed.

All drainage ditches and culverts will be kept clear and free-flowing and will be maintained according to original construction standards.

The access road disturbed area will be kept free of trash during operations. All traffic will be confined to the approved road running surface. Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossings shall be designed so they will not cause excess siltation or accumulation of debris in the drainage nor shall the drainage be blocked by the roadbed.

Erosion of drainage ditches by runoff water shall be prevented by diverting water off at frequent intervals by means of cutouts. Should mud holes develop, the holes shall be filled in and detours around the holes avoided.

When snow is removed from the road during the winter months, the snow should be pushed outside of the borrow ditches, and the turnouts kept clear so that snowmelt will be channeled away from the road.

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

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

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

Please refer to Topo map C.

4. Location of Existing and Proposed Facilities:

The following guidelines will apply if the well is productive.

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

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

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

by the BLM.

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

5. Power line

Electrification of the well sites will reduce the emissions and increase reliability by removing the gas venting of pumps for the heat trace system and chemical injection, as well as increase well pad safety by adding lights to the location.

Access into the proposed power lines will be from existing highways and roads. All construction and vehicular traffic will be confined to the authorized access corridor and designated county and/or BLM roads unless otherwise authorized and approved by the regulating agency

All work will be done in accordance with REA specifications.

QEP Energy Company is proposing a 50 ft temporary authorized access and a 15 ft permanent authorized access for power line maintenance. Minimal to no disturbance is required for the power lines following roads and existing ROW's.

The proposed power line will be 1104' in length, 15 ft in width, containing 0.380 acres.

6. Location and Type of Water Supply:

Fresh water will be obtained from Wonsits Valley water right # 49-251 (which was filed on May 7, 1964,) or Red Wash water right # 49-2153 (which was filed on March 25, 1960). It was determined by the Fish and Wildlife Service that any water right number filed before 1989 is not depleting to the Upper Colorado River System, to supply fresh water for drilling purposes.

7. Source of Construction Materials:

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

Any gravel will be obtained from a commercial source.

8. Methods of Handling Waste Materials:

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

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

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

It was determined at the on-site inspection that a pit liner is necessary; the reserve pit will be lined with a synthetic reinforced liner, a minimum of 20 millimeters thick, with sufficient bedding used to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash or scrap will be disposed of in the pit.

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

Disposal of Produced Water:

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

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

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 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.

9. Ancillary Facilities:

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

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

The pipeline will be steel, welded schedule #40 or greater, and consist of one (1) 3" inside diameter oil line and two (2) 1 1/4" inside diameter trace lines. The pipelines will be welded together on location and pulled separately into place. The lines will be banded together in one (1) bundle, insulated, and covered with tin painted Covert Green. The pipeline will laid within 30 feet of existing roads, pipelines, or existing route authorizations as much as possible. Pipeline route alternatives will be discussed at the on-site and the resulting proposal will be described in the APD. Road crossings will have a casing installed over the pipeline and ramped so the pipeline will not be buried. Pipeline Route Authorizations will be 30` wide and the location noted on maps accompanying the APD.

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

The pipeline will be 129' in length, containing approximately 0.089 acres.

10. Well Site Layout:

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

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

The reserve pit.

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

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

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

11. 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.

12. Reclamation Plan:

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

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

The disturbed area will be backfilled with subsoil.

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

Water courses and drainages will be restored.
Erosion control devices will be installed where needed.

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

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

Monitoring and reporting will be conducted as stated in QEP Energy Company's Reclamation Plan. Weed control will be conducted as stated in QEP Energy Company's Reclamation Plan.

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

Please see attached Weed Data Sheet.

Dry Hole/Abandoned Location:

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

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

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

13. Surface Ownership:

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

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

14. Other Information:

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

A Class III archeological survey was conducted by Montgomery Archaeology Consultants. A copy of this report was submitted on September 5, 2012, **State of Utah Antiquities Report U-12-MQ-0621b** by Montgomery Archaeology Consultants. Cultural resource clearance has been recommended for this project.

A paleontological survey was conducted by Intermountain Paleo Consulting. A copy of this report was submitted on September 10, 2012, Report **No. IPC 12-102** 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.

A habitat assessment and inventory was conducted in August 2012 by Bowen Collins & Associates. No horseshoe milkvetch populations or individuals were located during the surveys within the proposed RW 34-20BGR, 300' buffer zone or adjacent habitat. This proposed action would not impact any BLM sensitive species at this time.

Per the onsite meeting on July 10, 2012, the following items were requested/discussed.

There is 6" topsoil.

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

Lessee's or Operator's Representative & Certification:

Jan Nelson
Permit Agent
QEP Energy Company
11002 East 17500 South
Vernal, UT 84078
(435) 781-4331

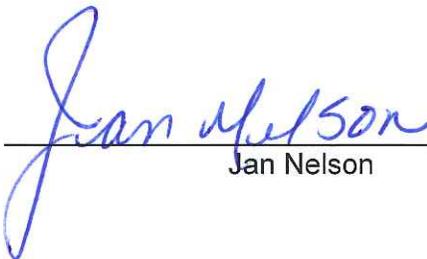
Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

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

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

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

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

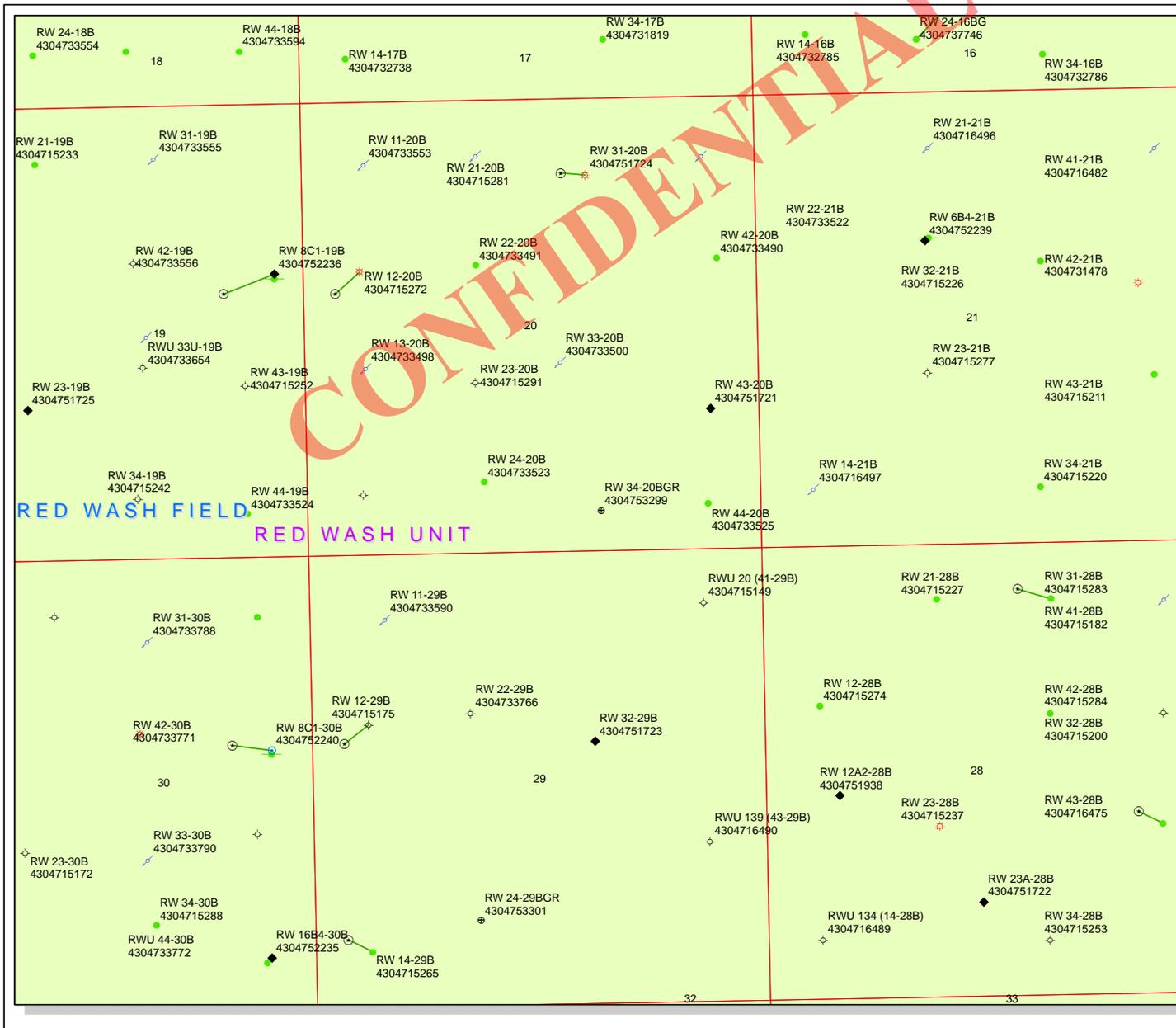


Jan Nelson

11/5/2012

Date

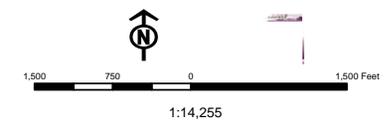
CONFIDENTIAL



API Number: 4304753299
Well Name: RW 34-20BGR
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 |
| PI 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 |
| Fields Status | TA - Temp. Abandoned |
| Unknown | TW - Test Well |
| ABANDONED | WDW - Water Disposal |
| ACTIVE | WW - Water Injection Well |
| COMBINED | WSW - Water Supply Well |
| INACTIVE | Bottom Hole Location - Oil/Gas/Dls |
| STORAGE | |
| TERMINATED | |



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:

3160

(UT-922)

November 14, 2012

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2012 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 2012 within the Red Wash Unit, Uintah County, Utah.

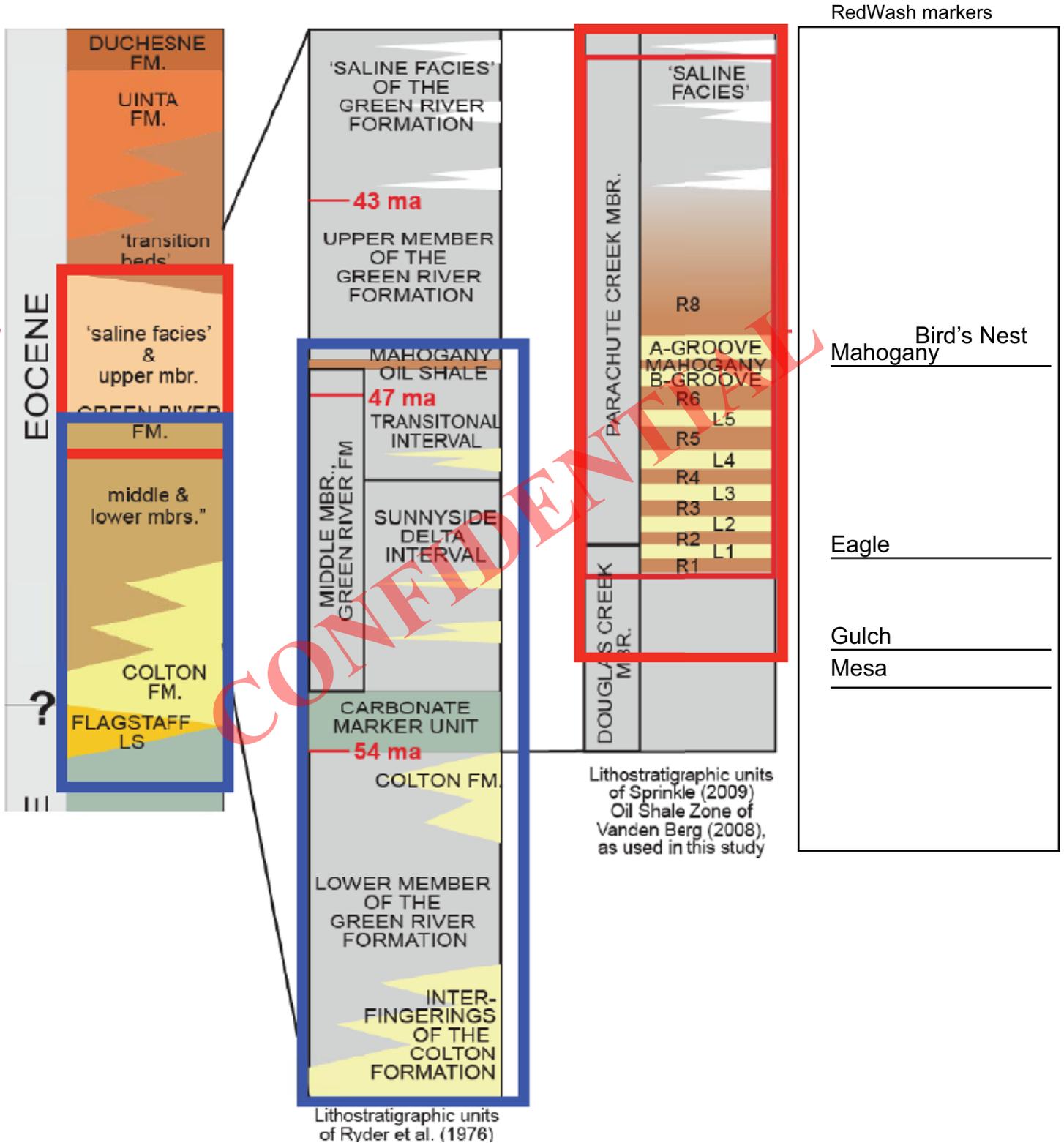
API#	WELL NAME	LOCATION
(Proposed PZ Green River)		
43-047-53297	RW 24-24AGR	Sec 24 T07S R22E 0385 FSL 2348 FWL
43-047-53299	RW 34-20BG	Sec 20 T07S R23E 0473 FSL 1856 FEL
43-047-53300	RW 22-17BGR	Sec 17 T07S R23E 2355 FNL 1761 FWL
43-047-53301	RW 24-29BGR	Sec 29 T07S R23E 0999 FSL 1928 FWL
43-047-53302	RW 11-26AGR	Sec 26 T07S R22E 0705 FNL 0476 FWL
43-047-53303	RW 33-23AGR	Sec 23 T07S R22E 2008 FSL 2169 FEL
43-047-53305	RW 31-31BGR	Sec 31 T07S R23E 0995 FNL 1879 FEL
43-047-53307	RW 24-14AGR	Sec 14 T07S R22E 0085 FSL 1983 FWL
43-047-53308	RW 24-23AGR	Sec 23 T07S R22E 0556 FSL 2010 FWL
43-047-53309	RW 24-13AGR	Sec 13 T07S R22E 0743 FSL 1653 FWL
43-047-53310	RW 13-17BGR	Sec 17 T07S R23E 1582 FSL 0677 FWL
43-047-53311	RW 11-27AGR	Sec 27 T07S R22E 0782 FNL 0716 FWL
43-047-53312	RW 44-24AGR	Sec 24 T07S R22E 0275 FSL 0180 FEL
43-047-53316	RW 42-18BGR	Sec 18 T07S R23E 2046 FNL 0998 FEL
43-047-53317	RW 11-23AGR	Sec 23 T07S R22E 0485 FNL 1155 FWL

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

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

MCoulthard:mc:11-14-12

RECEIVED: November 26, 2012



WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 11/5/2012

API NO. ASSIGNED: 43047532990000

WELL NAME: RW 34-20BGR

OPERATOR: QEP ENERGY COMPANY (N3700)

PHONE NUMBER: 435 781-4331

CONTACT: Jan Nelson

PROPOSED LOCATION: SWSE 20 070S 230E

Permit Tech Review:

SURFACE: 0473 FSL 1856 FEL

Engineering Review:

BOTTOM: 0473 FSL 1856 FEL

Geology Review:

COUNTY: UINTAH

LATITUDE: 40.18909

LONGITUDE: -109.34820

UTM SURF EASTINGS: 640611.00

NORTHINGS: 4450052.00

FIELD NAME: RED WASH

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU02030

PROPOSED PRODUCING FORMATION(S): GREEN RIVER

SURFACE OWNER: 1 - Federal

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

- PLAT
- Bond: FEDERAL - ESB000024
- Potash
- Oil Shale 190-5
- Oil Shale 190-3
- Oil Shale 190-13
- Water Permit: 49-251 - 49-2153
- RDCC Review:
- Fee Surface Agreement
- Intent to Commingle

Commingling Approved

LOCATION AND SITING:

- R649-2-3.
- Unit: 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 34-20BGR
API Well Number: 43047532990000
Lease Number: UTU02030
Surface Owner: FEDERAL
Approval Date: 11/26/2012

Issued to:

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

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 187-07. The expected producing formation or pool is the GREEN RIVER 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

MAY 3 2012

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

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		CONFIDENTIAL		5. Lease Serial No. UTU02030
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input 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: JAN NELSON E-Mail: jan.nelson@qepres.com		7. If Unit or CA Agreement, Name and No. 8920007610
3a. Address 11002 EAST 17500 SOUTH VERNAL, UT 84078		3b. Phone No. (include area code) Ph: 435.781.4331 Fx: 435-781-4395		8. Lease Name and Well No. RW 34-20 BGR
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SWSE 473FSL 1856FEL 40.189086 N Lat, 109.348203 W Lon At proposed prod. zone SWSE 473FSL 1856FEL 40.189086 N Lat, 109.348203 W Lon		11. Sec., T., R., M., or Blk. and Survey or Area Sec 20 T7S R23E Mer SLB SME: BLM		9. API Well No. 4304753299
14. Distance in miles and direction from nearest town or post office* 24 MILES SOUTH OF VERNAL, UT		12. County or Parish UINTAH		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) 473		16. No. of Acres in Lease 1875.80		13. State UT
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 1248		19. Proposed Depth 6379 MD		17. Spacing Unit dedicated to this well 40.00
21. Elevations (Show whether DF, KB, RT, GL, etc.) 5527 GL		22. Approximate date work will start 04/01/2013		20. BLM/BIA Bond No. on file ESB000024
				23. Estimated duration 7 DAYS

24. Attachments

RECEIVED
MAY 31 2013

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form: **DIV. OF OIL, GAS & MINING**

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

25. Signature (Electronic Submission)	Name (Printed/Typed) JAN NELSON Ph: 435.781.4331	Date 11/05/2012
Title PERMIT AGENT		
Approved by (Signature) 	Name (Printed/Typed) Jerry Kenczka	Date MAY 22 2013
Title Assistant Field Manager Lands & Mineral Resources		
Office VERNAL FIELD OFFICE		

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

CONDITIONS OF APPROVAL ATTACHED

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

Electronic Submission #158948 verified by the BLM Well Information System
For QEP ENERGY COMPANY, sent to the Vernal
Committed to AFMSS for processing by JOHNETTA MAGEE on 11/16/2012 (13JM0072)

UDOGM

NOTICE OF APPROVAL

No Stipulations or
Lease Notices



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

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: QEP ENERGY COMPANY
Well No: RW 34-20 BGR
API No: 43-047-53299

Location: SWSE, Sec. 20, T7S, R23E
Lease No: UTU-02030
Agreement:

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

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

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

NOTIFICATION REQUIREMENTS

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

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

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO_x per horsepower-hour.
- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue..
- Green completions would be used for all well completion activities where technically feasible.
- Employ enhanced VOC emission controls with 95% control efficiency on production equipment having a potential to emit greater than 5 tons per year.
- The reserve pit will be fenced on three sides prior to drilling activity and closed off on the fourth side after drilling is finished. The reserve pits for the wells will be lined with a 16 ml liner with felt.
- A dike will be constructed around those production facilities that contain fluids. The dikes will be constructed of compacted subsoil. They will be impervious, hold 10 percent more than the capacity of the largest tank, and be independent of the back cut.
- All permanent (meaning on site for six months or longer) structures will be painted Covert Green to match the surrounding landscape color unless otherwise authorized. This will include all facilities except those required to comply with Occupational Safety and Health Act (OSHA) regulations.
- If dry, the wells will be plugged and abandoned as per BLM and State of Utah requirements.
- Prior to construction, an invasive plants/noxious weeds inventory will be completed for all areas where surface disturbance will occur. A completed Weed Inventory form documenting any occurrences of invasive plants or noxious weeds will be submitted to the BLM Authorized Officer before surface disturbance will occur.
- All vehicles and equipment would be cleaned either through power-washing, or other approved method, if the vehicles or equipment are brought in from areas outside the Uinta Basin, to prevent weed seed introduction.
- The operator will control noxious/invasive weeds along their roads, pipelines, well sites, or other applicable facilities by the application of herbicides or by mechanical removal until reclamation is considered to be successful by the authorized officer (AO) and the bond for the well is released. A list of noxious weeds will be obtained from the BLM or the appropriate county extension office. On BLM-administered land, the operator will submit a Pesticide Use Proposal and obtain approval prior to the application of herbicides, other pesticides, or possible hazardous chemicals.

- Immediately upon well completion, the location and surrounding area shall be cleared of all unused tubing, equipment, debris, materials, and trash. Any hydrocarbons in the pit will be removed in accordance with 43 CFR 3162.7-1.
- The reserve pit and the portion of the well not needed for production facilities/operations shall be recontoured to the approximate natural contours. The reserve pit will be reclaimed within 120 days from the date of well completion, or as soon as environmental conditions allow. The stockpiled pit topsoil will then be spread over the pit area and broadcast-seeded/drill seeded (preferred method) with a seed mix submitted to the BLM Authorized Officer (AO) for approval prior to seeding. Seeding will be done in the fall prior to winter freezing of the soil. The seed mixture shall be worked into the topsoil with a drill seeder, bulldozer or other heavy equipment. If initial seeding is not successful, reseeding may be required.
- Once the well is plugged and facilities are removed and abandoned, the topsoil shall be stripped and stockpiled off of the location, and the well site, pipelines, and access roads will be returned to natural contours. The topsoil shall be respread, and the location seeded with the mixture submitted to the BLM AO. The seed mixture shall be worked into the topsoil with a drill seeder, bulldozer or other heavy equipment.
- Interim reclamation, final reclamation, and monitoring of reclaimed areas will be completed in accordance with the QEP Energy Company, Uinta Basin Division's Reclamation Plan, September 2009 on file with the Vernal Field Office of the BLM.
- Prior to any surface disturbance, vegetative monitoring locations and reference sites will be identified by QEP and approved by the BLM AO. Vegetation monitoring protocol will be developed by QEP and approved by the BLM AO prior to implementation of revegetation techniques and will be designed to monitor % basal vegetative cover.
- Revegetated areas will be inspected annually and monitored to document location and extent of areas with successful revegetation, and areas needing further reclamation (for a period of 5 years after construction completion). A reclamation report will be submitted to the AO by March 31 of each year.
- QEP has agreed not to construct or drill during the following dates, unless otherwise determined by the BLM Authorized Officer.

Table 2-3 Raptor nesting timing restriction

Well Name	Burrowing Owl March 1 to August 31	Red Tailed Hawk March 1 to August 15	Ferruginous Hawk March 1 to August 1	Golden Eagle January 1 to August 31
RW 11-26AGR	No	No	No	No
RW 12-27A	Yes	No	No	No
RW 22-17BGR	No	No	No	No
RW 22-18BGR	No	No	No	No
RW 24-24AGR	No	No	No	No
RW 24-30B	No	Yes	No	No
RW 24-29BGR	No	No	Yes	No
RW 31-22A	No	No	No	Yes
RW 31-31BGR	No	Yes	No	No
RW 32-23A	No	No	Yes	Yes
RW 32-33A	No	No	Yes	No
RW 33-23AGR	No	No	Yes	Yes
RW 34-20BGR	No	No	Yes	No

RW 34-21A	No	No	No	Yes
RW 34-28A	No	No	No	No
RW 42-13AGR	No	No	No	No

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

- QEP will educate its contractors and employees about the relevant federal regulations intended to protect paleontological and cultural resources. All vehicular traffic, personnel movement, construction, and restoration activities shall be confined to areas cleared by the site inventory and to existing roads. If any potential paleontological or cultural resources are uncovered during construction, work will stop immediately in the area and the appropriate BLM AO will be notified.
- A paleontological survey was conducted on all areas where surface disturbance would occur Table 2-2 indicates where and when a paleontologist would be required to monitor surface disturbing activity.

Table 2-2 Paleontological Resources Survey Results.

Well Name	BLM Authorized Permitted Paleontologist Will Monitor the Access Road.	BLM Authorized Permitted Paleontologist Will Monitor the Pipe Line.	BLM Authorized Permitted Paleontologist Will Monitor the Well Pad.	BLM Authorized Permitted Paleontologist Will Monitor for the Power Line.
RW 11-26AGR	Yes	Yes	Yes	Yes
RW 12-27A	Yes	Yes	Yes	No
RW 22-17BGR	No	No	Yes	No
RW 22-18BGR	No	No	No	No
RW 24-24AGR	No	No	No	No
RW 24-30B	No	No	No	No
RW 24-29BGR	No	No	No	No
RW 31-22A	Yes	Yes	Yes	No
RW 31-31BGR	Yes	Yes	Yes	Yes
RW 32-23A	No	No	No	No
RW 32-33A	Yes	Yes	Yes	No
RW 33-23AGR	No	No	No	No
RW 34-20BGR	No	No	No	No
RW 34-21A	No	No	No	No
RW 34-28A	No	No	Yes	No
RW 42-13AGR	Yes	Yes	Yes	No

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

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

SITE SPECIFIC DOWNHOLE COAs:

- A formation integrity test shall be performed at the surface casing shoe.
- Gamma Ray Log shall be run from Total Depth to Surface
- Cement for long-string shall be brought to 200' above surface casing shoe.
- Surface Casing shall be cemented to surface.

Variances Granted

Air Drilling

- Dust suppression equipment. Variance granted for water mist system to substitute for the dust suppression equipment.
- Blooie line discharge 100' from the well bore, variance granted for blooie line discharge to be 75' from the well bore.
- Compressors located in the opposite direction from the blooie line a minimum of 100' from the well bore. Variance granted for truck/trailer mounted air compressors.
- Straight run blooie line. Variance granted for targeted "T's" at bends.
- Automatic igniter. Variance granted for igniter due to water mist.

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

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

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

- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well by CD (compact disc). 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 (¼ ¼, 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.

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 Oil Well	8. WELL NAME and NUMBER: RW 34-20BGR
2. NAME OF OPERATOR: QEP ENERGY COMPANY	9. API NUMBER: 43047532990000
3. ADDRESS OF OPERATOR: 11002 East 17500 South , Vernal, Ut, 84078	PHONE NUMBER: 303 308-3068 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0473 FSL 1856 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 20 Township: 07.0S Range: 23.0E Meridian: S	9. FIELD and POOL or WILDCAT: RED WASH COUNTY: UINTAH STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 11/26/2014	<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.

NAME (PLEASE PRINT) Valyn Davis	PHONE NUMBER 435 781-4369	TITLE Regulatory Affairs Analyst
SIGNATURE N/A	DATE 11/26/2013	



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 43047532990000

API: 43047532990000

Well Name: RW 34-20BGR

Location: 0473 FSL 1856 FEL QTR SWSE SEC 20 TWP 070S RNG 230E MER S

Company Permit Issued to: QEP ENERGY COMPANY

Date Original Permit Issued: 11/26/2012

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: 11/26/2013

Title: Regulatory Affairs Analyst Representing: QEP ENERGY COMPANY

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 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 34-20BGR
2. NAME OF OPERATOR: QEP ENERGY COMPANY	9. API NUMBER: 43047532990000
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: 0473 FSL 1856 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE 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: 11/26/2013 <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 RW 34-20BGR FROM A VERTICAL OIL WELL TO A HORIZONTAL GAS WELL. NEW BOTTOM HOLE FOOTAGES ARE: 867' FSL, 389' FWL, SEC. 32, SWSW, T7S, R23E, LAT: 40.161186, LONG: 109.359014. NO ADDITIONAL SURFACE DISTURBANCE IS REQUIRED FOR THIS ACTION. QEP ENERGY COMPANY REQUESTS THIS WELL BE FILED AS "CONFIDENTIAL". PLEASE SEE ATTACHED: LEGAL PLAT, DRILLING PLAN, DIRECTIONAL PLAN.

Approved by the Utah Division of Oil, Gas and Mining

Date: December 03, 2013

By:

NAME (PLEASE PRINT) Valyn Davis	PHONE NUMBER 435 781-4369	TITLE Regulatory Affairs Analyst
SIGNATURE N/A	DATE 11/26/2013	



Diana Mason <dianawhitney@utah.gov>

RE: Sundry For API Well Number 43047532990000

Valyn Davis <Valyn.Davis@qepres.com>

Mon, Dec 2, 2013 at 8:08 AM

To: "dianawhitney@utah.gov" <dianawhitney@utah.gov>

Hi Diana-

Yes, the TD is changing. It is now going to be horizontal with a TVD of 10,674' and MD of 21,571'.

Thank you-

Valyn

Valyn Davis
QEP Energy Company
Regulatory Affairs Analyst
[435-781-4369](tel:435-781-4369) Office
[435-828-1058](tel:435-828-1058) Cell
valyn.davis@qepres.com

-----Original Message-----

From: dianawhitney@utah.gov [mailto:dianawhitney@utah.gov]

Sent: Friday, November 29, 2013 9:38 AM

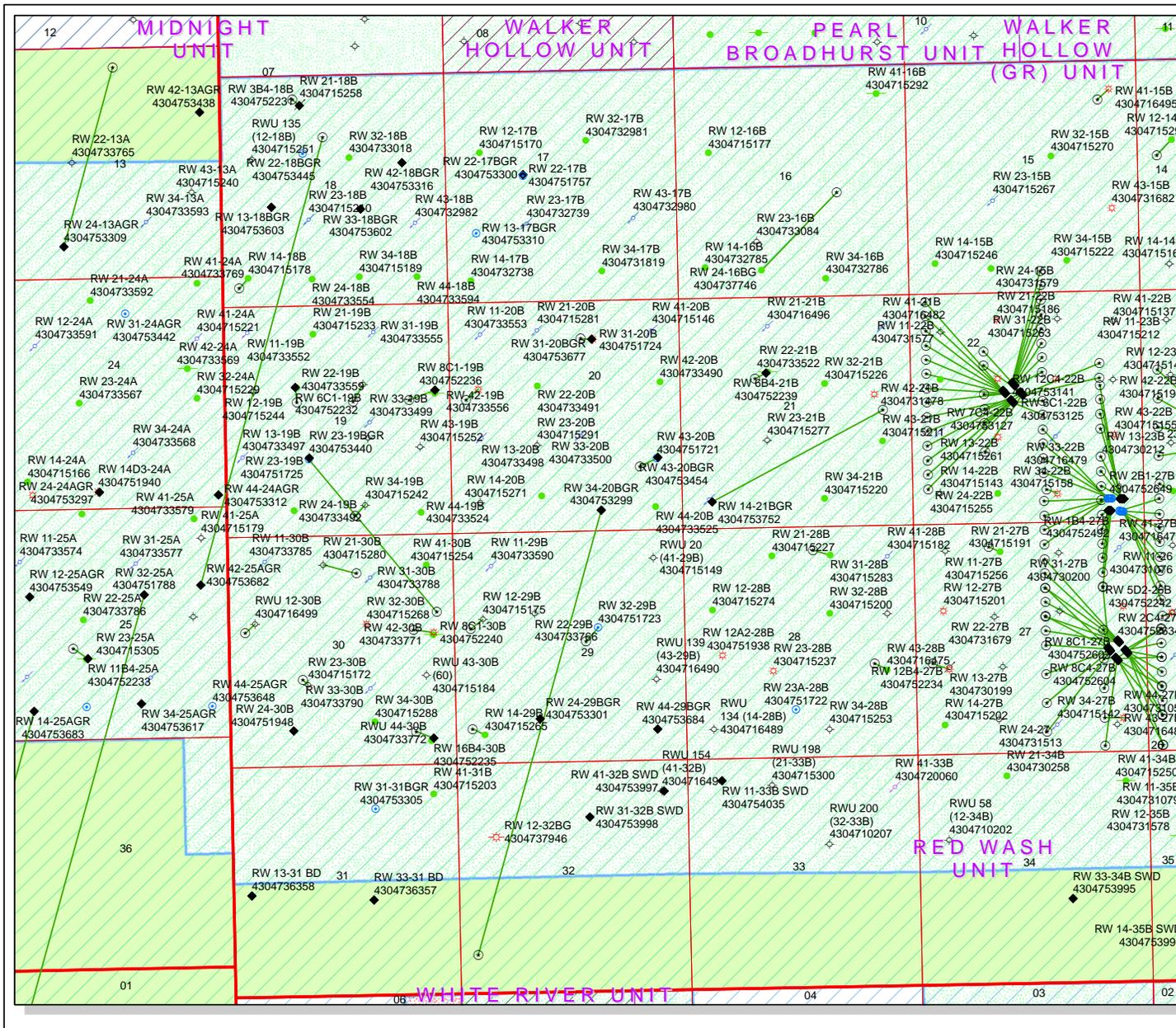
To: Valyn Davis

Subject: Sundry For API Well Number 43047532990000

Notice of Intent: CHANGE_TO_PREVIOUS_PLANS API Number: 43047532990000

Operator: QEP ENERGY COMPANY

Is the TD changing as well? We have the approved TD being 6379' Green River.

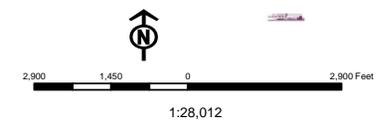


API Number: 4304753299
Well Name: RW 34-20BGR
 Township: T07.0S Range: R23.0E Section: 20 Meridian: S
 Operator: QEP ENERGY COMPANY

Map Prepared: 12/3/2013
 Map Produced by Diana Mason

Wells Query		Units	
●	APD - Approved Permit	□	ACTIVE
●	DRL - Spudded (Drilling Commenced)	□	EXPLORATORY
●	GRW - Gas Injection	□	GAS STORAGE
●	GS - Gas Storage	□	NF PP OIL
●	LOC - New Location	□	NF SECONDARY
●	OPS - Operation Suspended	□	PI OIL
●	PA - Plugged Abandoned	□	PP GAS
●	PGW - Producing Gas Well	□	PP GEOTHERMAL
●	POW - Producing Oil Well	□	PP OIL
●	SGW - Shut-in Gas Well	□	SECONDARY
●	SGW - Shut-in Oil Well	□	TERMINATED
●	TA - Temp. Abandoned		
○	TW - Test Well		
○	WW - Water Injection Well		
○	WSW - Water Supply Well		

Fields	
STATUS	STATUS
□	Unknown
□	ABANDONED
□	ACTIVE
□	COMBINED
□	INACTIVE
□	STORAGE
□	TERMINATED



QEP ENERGY COMPANY

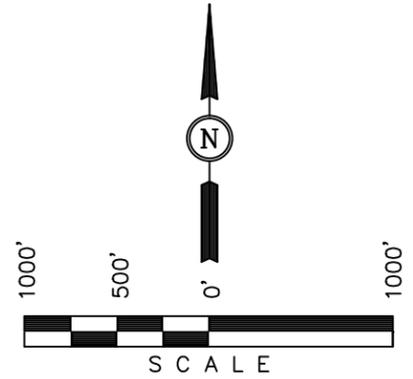
Well location, RW #34-20BGR, located as shown in the SW 1/4 SE 1/4 of Section 20, T7S, R23E, S.L.B.&M., Uintah County, Utah.

BASIS OF ELEVATION

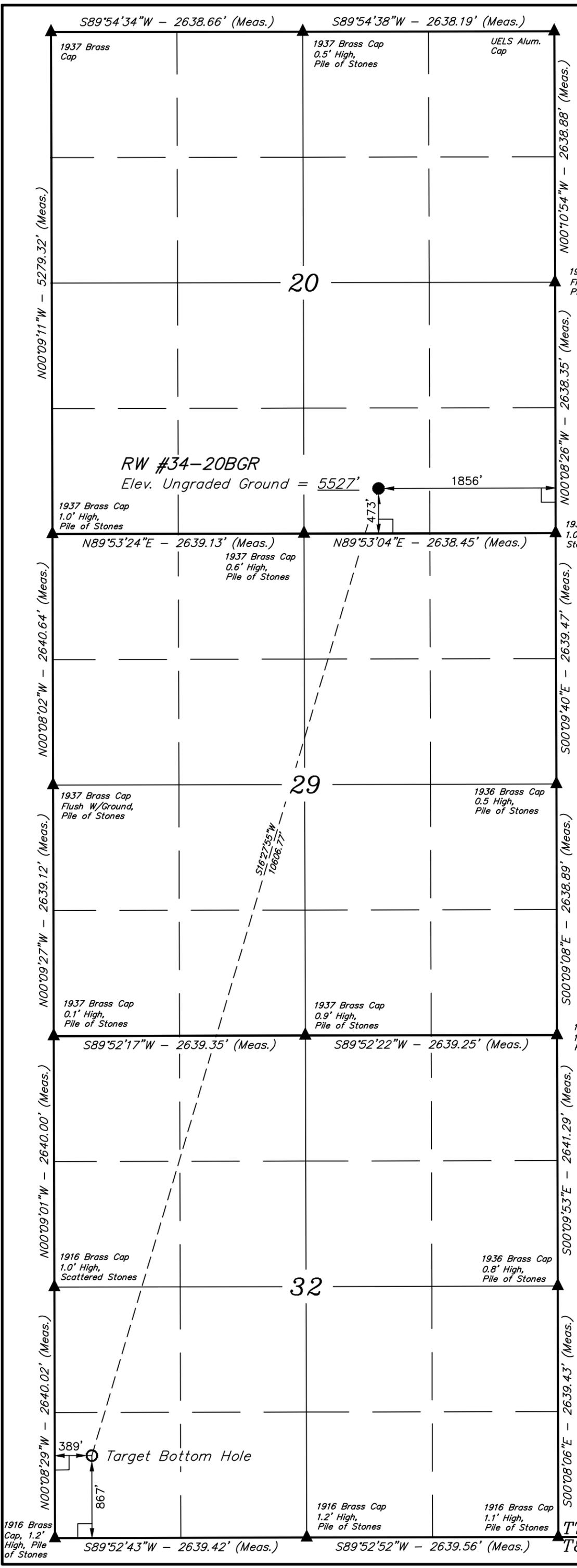
BENCH MARK 20EAM LOCATED IN THE SE 1/4 OF SECTION 35, T8S, R21E, S.L.B.&M. TAKEN FROM THE OURAY SE, QUADRANGLE, UTAH, UTAH COUNTY, 7.5 MINUTE QUAD (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4697 FEET.

BASIS OF BEARINGS

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



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



LEGEND:

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

CERTIFICATE

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

REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

REVISED: 11-11-13 S.S.

NAD 83 (TARGET BOTTOM HOLE)	NAD 83 (SURFACE LOCATION)
LATITUDE = 40°09'40.27" (40.161186)	LATITUDE = 40°11'20.71" (40.189086)
LONGITUDE = 109°21'32.45" (109.359014)	LONGITUDE = 109°20'53.53" (109.348203)
NAD 27 (TARGET BOTTOM HOLE)	NAD 27 (SURFACE LOCATION)
LATITUDE = 40°09'40.39" (40.161219)	LATITUDE = 40°11'20.84" (40.189122)
LONGITUDE = 109°21'30.00" (109.358333)	LONGITUDE = 109°20'51.07" (109.347519)
STATE PLANE NAD 83	STATE PLANE NAD 83
N: 7234597.51 E: 2238720.83	N: 7244830.91 E: 2241497.30

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

SCALE 1" = 1000'	DATE SURVEYED: 05-29-12	DATE DRAWN: 05-31-12
PARTY G.O. S.R. R.L.L.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE QEP ENERGY COMPANY	

QEP Energy Company RW 34-20BGR

Summarized New Drill Lower Mesa Verde Horizontal Procedure

1. MIRU drilling rig.
2. Drill 12-1/4" hole to 3,880'.
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 10,626'.
7. TOOH and PU curve assembly.
8. TIH.
9. Build curve per directional plan to land in the Lower Mesa Verde.
10. LDDP.
11. RIH with 7" 29# P-110HC to 11,556'.
12. Cement casing.
13. PU 4"DP and lateral assembly.
14. Drill out cement.
15. Drill ~10,015' of lateral at ~196.56° azimuth, following formation dip.
 - a. Mud system to be Oil Based. Weights are expected to be in the 10.0 – 11.0 ppg range.
16. PU 4 1/2" 15.1# P-110HC CDC casing and run to 50' off bottom of the TD of 21,571'.
17. Cement casing.
18. ND BOP's.
19. RDMOL.

ONSHORE OIL & GAS ORDER NO. 1
 QEP ENERGY COMPANY
 RW 34-20BGR

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	3,050'	3,050'
Bird's Nest	3,281'	3,281'
Mahogany	3,830'	3,830'
Base of Mod Saline	5,450'	5,450'
Wasatch	6,190'	6,190'
Mesaverde	8,911'	8,911'
Kick Off Point	10,626'	10,626'
TD	10,674'	21,571'

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	3,050'	3,050'
Oil/Gas	Wasatch	6,190'	6,190'
Oil/Gas	Mesaverde	8,911'	8,911'

ONSHORE OIL & GAS ORDER NO. 1
QEP ENERGY COMPANY
RW 34-20BGR

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 34-20BGR

4. Casing Program

Hole Size	Casing Size	Top, MD	Bottom, MD	Weight, lb/ft	Grade	Thread	Condition	MW
17-1/2 "	14"	sfc	80'	Steel	Cond.	None	Used	Air
12 1/4"	9 5/8"	sfc	3,880'	40.0	N-80	LTC	New	8.8-9.3ppg
8 3/4"	7"	sfc	11,556'	29.0	P-110HC	LTC	New	9-10.5 ppg
6 1/8"	4 1/2"	sfc	21,521'	15.1	P-110HC	CDC	New	10-11.0 ppg

The lateral will be lined with casing 50' off bottom and cemented to surface.

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.
4 1/2"	15.1 lb.	P-110HC	CDC	15,130 psi	14,420 psi	485,000 lb.

Please refer to the attached wellbore diagram for further details.

5. Cementing Program

14" Conductor:

Cement to surface with construction cement.

9-5/8" Surface Casing: SFC – 3,880' (MD)

Lead Slurry: Surface (TOC) – 3,380'. 594 sks (1,853 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: 3,380' – 3,880'. 187 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.

7" Intermediate Casing: sfc – 11,556' (MD)

Lead: Sfc – 8,411' 557 sks (1,637 cu ft) Halliburton ECONOCHEM 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: 8,411' – 11,556'. 416 sks (620 cu ft) Halliburton EXPANDACEM V3 + 0.2% HR-800 (Retarder) + 0.125 lbm/sk Poly-E-Flake (LCM) + 1 lbm/sk Granulite TR 1/4 (LCm). Slurry wt: 13.5 ppg, Slurry yield: 1.49 ft³/sk, with 50% excess.

ONSHORE OIL & GAS ORDER NO. 1
QEP ENERGY COMPANY
RW 34-20BGR

4-1/2" Production Casing: sfc – 21,521' (MD)

Lead: Sfc – 8,411' 338 sks (825 cu ft) Halliburton ECONOCEM V4+ 3 LBM/SK Kol-Seal (LCM) + 0.1% HR-800 (Retarder). Slurry Weight 11.5 lb/gal, Slurry Yield 2.44 ft³/sk.

Tail Slurry: 8,411' – 21,521'. 1,050 sks (1,575 cu ft) Halliburton EXPANDACEM V3 + 0.6% 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: 1.50 ft³/sks with 35% excess.

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 14" Conductor will be done with water. Drilling below the 9-5/8" casing will be done with water based mud. Drilling below the 7" will be done with Oil Based Mud. Maximum anticipated mud weight is 11.0 ppg.
- G. No minimum quantity of weight material will be required to be kept on location.
- H. Gas detector will be used from surface casing depth to TD.

7. Testing, Logging, and Coring Program

- a. Cores – None Anticipated
- b. DST – None Anticipated
- c. Logging:
 - i. Mud logging from surface casing point to TD
 - ii. OH Logs: GR-SP-Induction, Neutron Density to be run in the intermediate section to KOP.
 - 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 34-20BGR

8. Anticipated Abnormal Pressures and Temperatures, Other Potential Hazards

No abnormal temperatures or pressures are anticipated.

Maximum anticipated bottom hole pressure (approx, psi): 6,678

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.

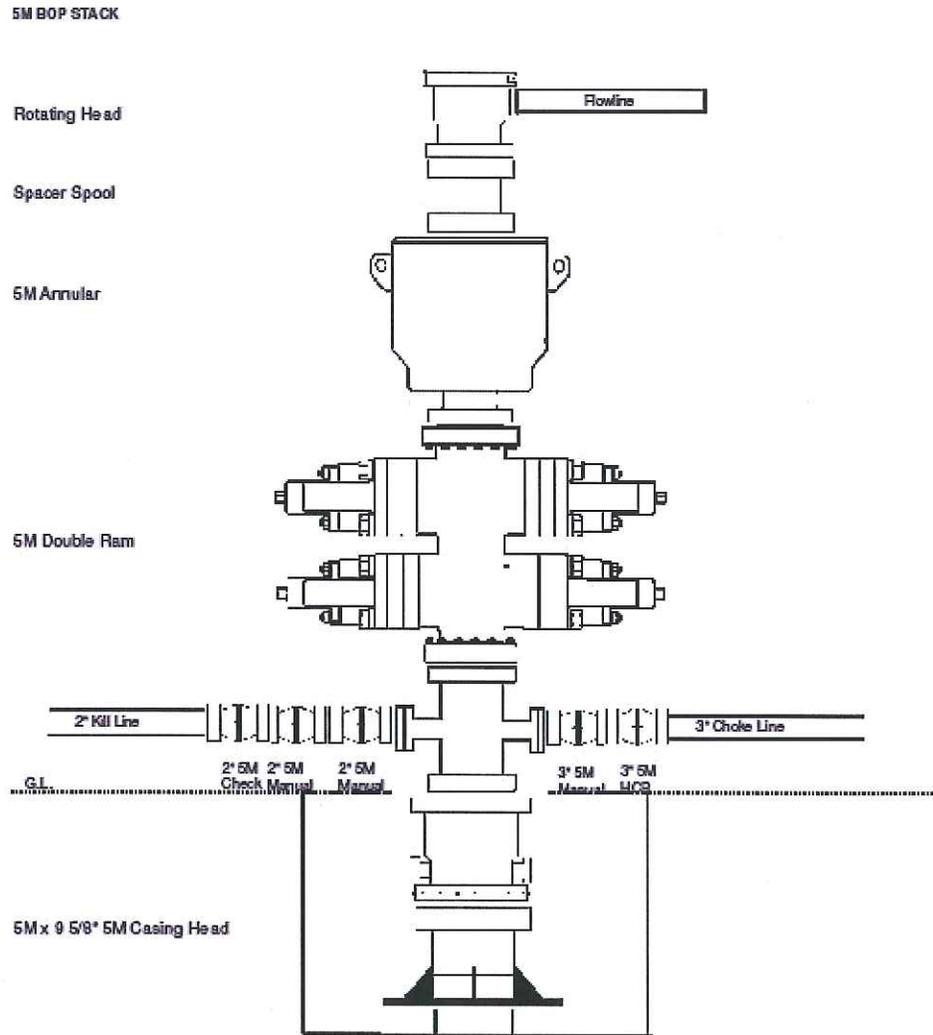
9. Additional Information For Oil Base Mud

- 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.

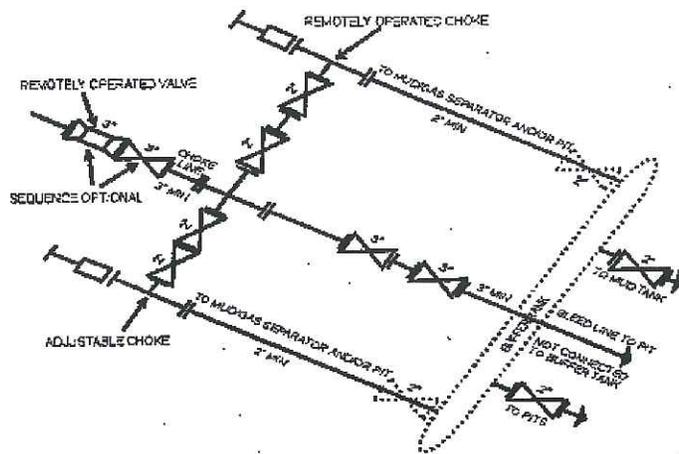
ONSHORE OIL & GAS ORDER NO. 1
QEP ENERGY COMPANY
RW 34-20BGR

- 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 34-20BGR



ONSHORE OIL & GAS ORDER NO. 1
QEP ENERGY COMPANY
RW 34-20BGR



SM 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 spoolfolding 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, 1004, OX 1504 drawings, it would also be applicable to these situations.

[54 FR 39522, Sept. 27, 1989]

RW 34-20BGR

Updated 11-20-2013 CRA

Proposed WBD

Uinta Basin

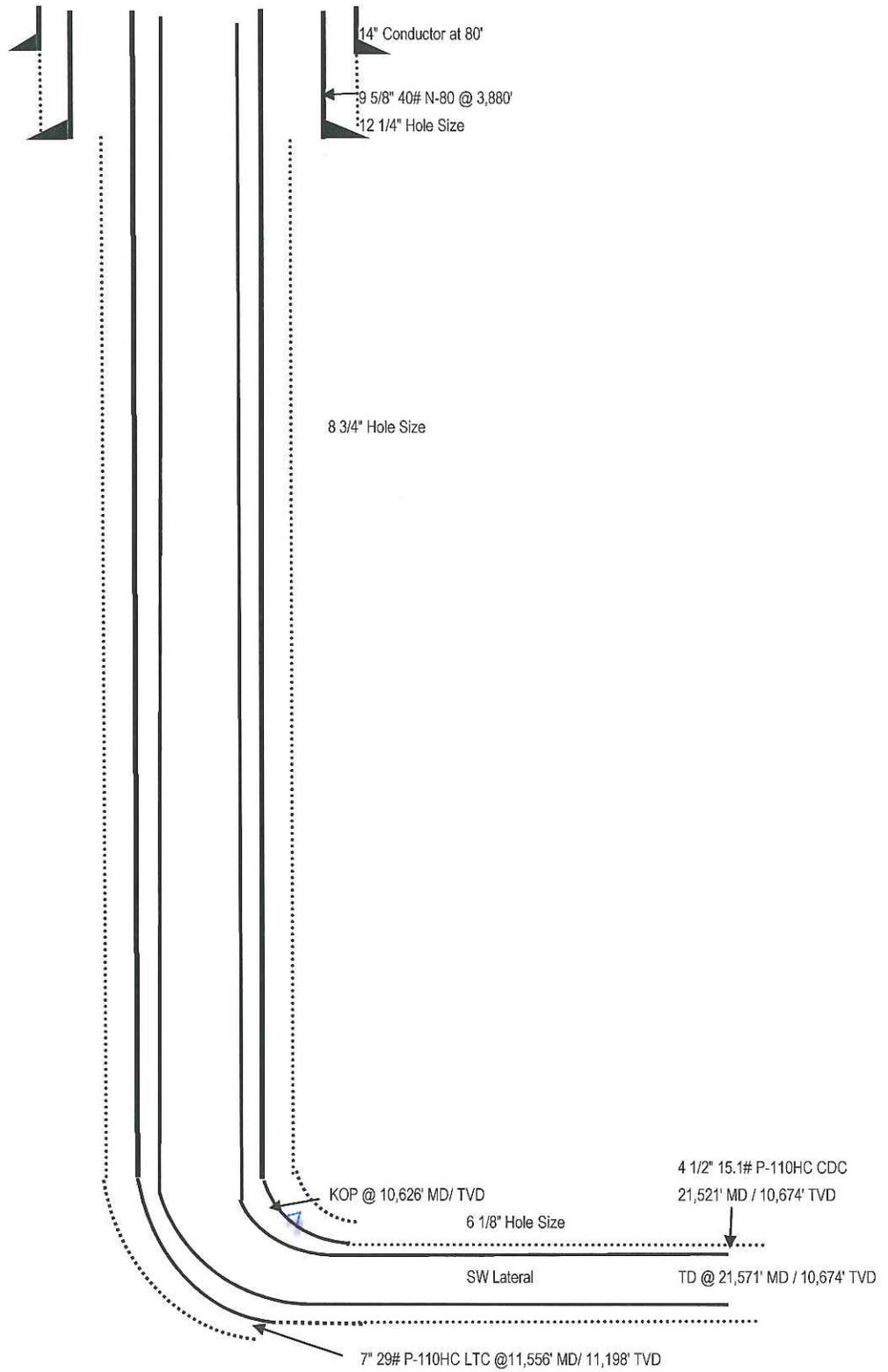
SHL: Sec 20-T7S-R23E, Uintah County, UT

BHL: Sec 32-T7S-R23E, Uintah County, UT

KB: 5,550'

GL: 5,520'

NOTE: NOT TO SCALE





QEP Energy Company

QEP ENERGY (UT)

Red Wash

RW 34-20BGR

RW 34-20BGR

Original Hole

Plan: Plan ver.1

Standard Planning Report

18 November, 2013



QEP Energy Company



QEP Resources, Inc.
Planning Report



Database:	Compass	Local Co-ordinate Reference:	Well RW 34-20BGR
Company:	QEP ENERGY (UT)	TVD Reference:	RKB @ 5549.80usft (SST 88)
Project:	Red Wash	MD Reference:	RKB @ 5549.80usft (SST 88)
Site:	RW 34-20BGR	North Reference:	True
Well:	RW 34-20BGR	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan ver.1		

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 34-20BGR				
Site Position:		Northing:	7,244,830.611 usft	Latitude:	40.189086
From:	Lat/Long	Easting:	2,241,497.174 usft	Longitude:	-109.348203
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	1.38 °

Well	RW 34-20BGR					
Well Position	+N/-S	0.30 usft	Northing:	7,244,830.910 usft	Latitude:	40.189087
	+E/-W	0.13 usft	Easting:	2,241,497.300 usft	Longitude:	-109.348203
Position Uncertainty		0.00 usft	Wellhead Elevation:	5,519.80 usft	Ground Level:	5,519.80 usft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	11/6/2013	10.73	65.99	52,209

Design	Plan ver.1			
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	196.56

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	
10,626.27	0.00	0.00	10,626.27	0.00	0.00	0.00	0.00	0.00	0.00	
11,556.27	93.00	196.56	11,198.45	-577.94	-171.83	10.00	10.00	0.00	196.56	
21,571.29	93.00	196.56	10,674.30	-10,164.49	-3,022.08	0.00	0.00	0.00	0.00	RW 34-20BGR

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	
10,626.27	0.00	0.00	10,626.27	0.00	0.00	0.00	0.00	0.00	0.00	
11,556.27	93.00	196.56	11,198.45	-577.94	-171.83	602.94	10.00	10.00	10.00	
21,571.29	93.00	196.56	10,674.30	-10,164.49	-3,022.08	10,604.23	0.00	0.00	0.00	



QEP Resources, Inc.
Planning Report



Database:	Compass	Local Co-ordinate Reference:	Well RW 34-20BGR
Company:	QEP ENERGY (UT)	TVD Reference:	RKB @ 5549.80usft (SST 88)
Project:	Red Wash	MD Reference:	RKB @ 5549.80usft (SST 88)
Site:	RW 34-20BGR	North Reference:	True
Well:	RW 34-20BGR	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan ver.1		

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 34-20BGR	0.00	0.00	10,674.30	-10,164.49	-3,022.08	7,234,597.510	2,238,720.830	40.161185	-109.359015
- plan hits target center									
- Point									

Casing Points						
	Measured Depth	Vertical Depth	Name	Casing Diameter	Hole Diameter	
	(usft)	(usft)		(")	(")	
	3,880.00	3,880.00	9 5/8"	9-5/8	12-1/4	
	11,556.27	11,198.45	7"	7	8-3/4	
	21,571.29	10,674.30	4 1/2"	4-1/2	6-1/8	

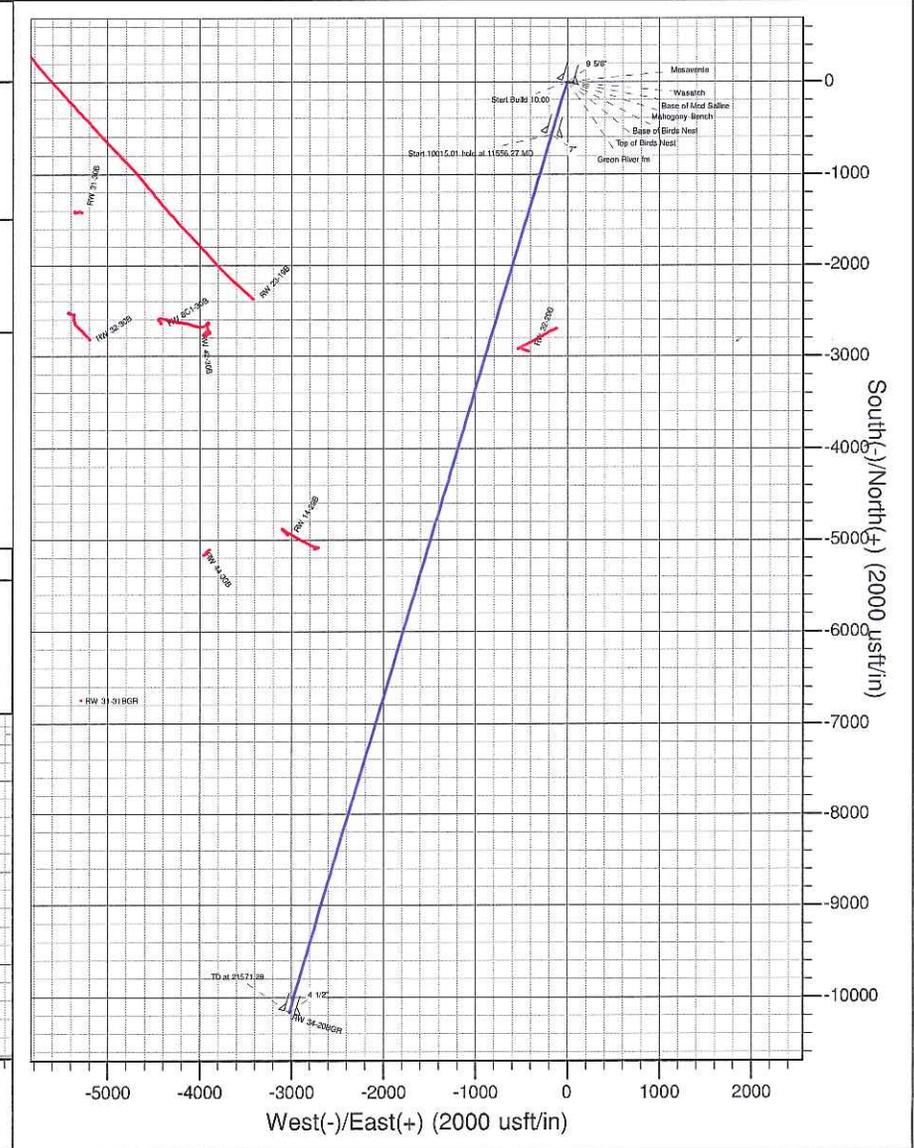
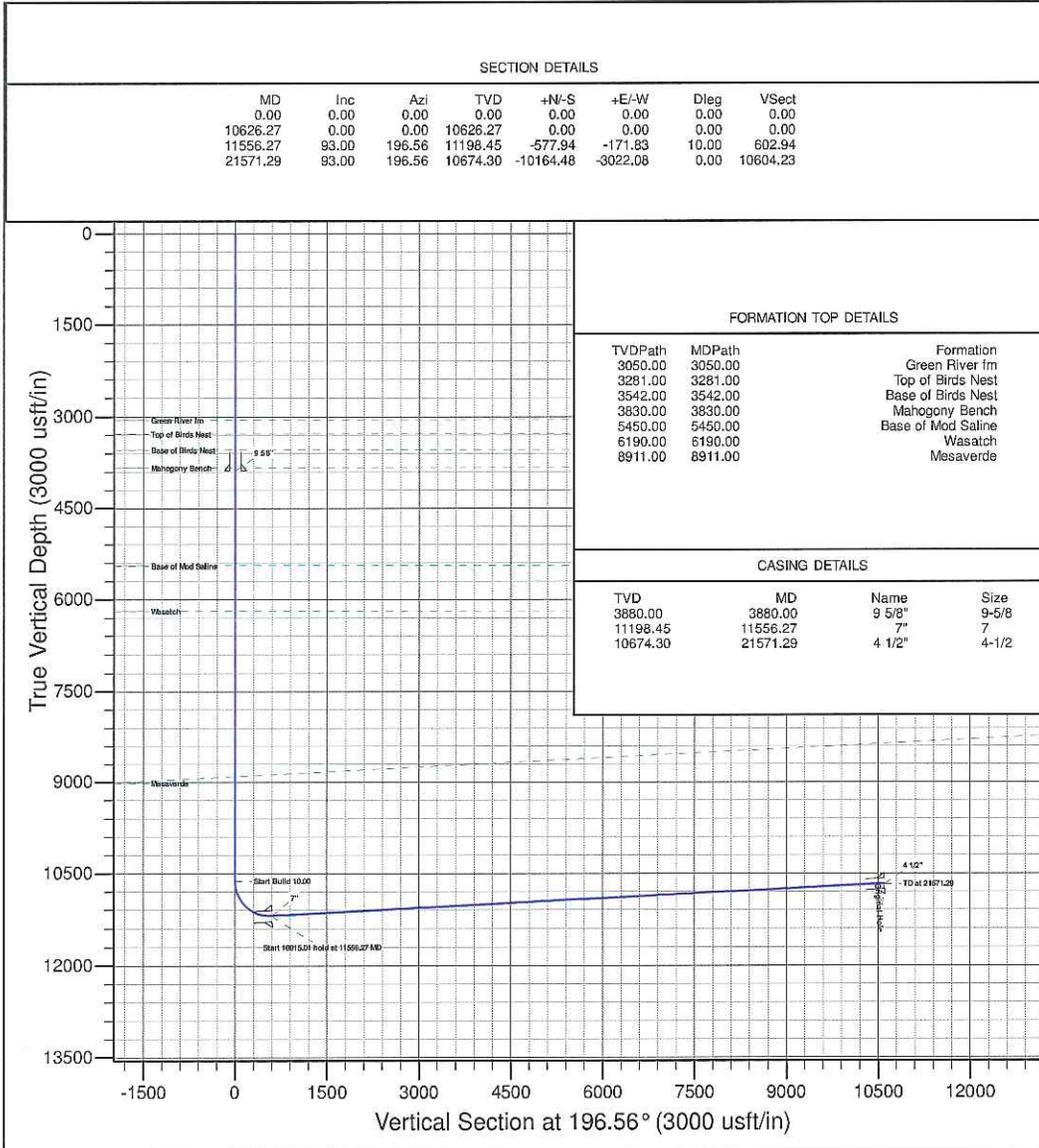
Formations							
	Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
	(usft)	(usft)			(°)	(°)	
	3,050.00	3,050.00	Green River fm				
	3,281.00	3,281.00	Top of Birds Nest				
	3,542.00	3,542.00	Base of Birds Nest				
	3,830.00	3,830.00	Mahogany Bench				
	5,450.00	5,450.00	Base of Mod Saline				
	6,190.00	6,190.00	Wasatch				
	8,911.00	8,911.00	Mesaverde		3.00	16.56	



Company Name: QEP ENERGY (UT)

	Azimuth to True North Magnetic North: 10.73°	Project: Red Wash
	Magnetic Field Strength: 5209.25nT	Site: RW 34-20BGR
	Dip Angle: 55.59°	Well: RW 34-20BGR
	Date: 11/02/2013 Model: IGRF2010	Wellbore: Original Hole Design: Plan ver.1

WELL DETAILS: RW 34-20BGR Original Hole							REFERENCE INFORMATION		PROJECT DETAILS: Red Wash	
Ground Level: 5519.80							Co-ordinate (N/E) Reference: Well RW 34-20BGR, True North		Geodetic System: US State Plane 1983	
							Vertical (TVD) Reference: RKB @ 5549.80usft (SST 88)		Datum: North American Datum 1983	
							Section (VS) Reference: Slot - (0.00N, 0.00E)		Ellipsoid: GRS 1980	
							Measured Depth Reference: RKB @ 5549.80usft (SST 88)		Zone: Utah Central Zone	
							Calculation Method: Minimum Curvature		System Datum: Mean Sea Level	
+N/-S 0.00	+E/-W 0.00	Northing 7244830.910	Easting 2241497.300	Latitude 40.189087	Longitude -109.348202	Slot				



Sundry Number : 45333 API Well Number : 43047532990000

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	
8. WELL NAME and NUMBER: RW 34-20BGR	
9. API NUMBER: 43047532990000	
9. FIELD and POOL or WILDCAT: RED WASH	
9. COUNTY: UINTAH	
9. STATE: UTAH	
1. TYPE OF WELL Gas Well	
2. NAME OF OPERATOR: QEP ENERGY COMPANY	
3. ADDRESS OF OPERATOR: 11002 East 17500 South , Vernal, Ut, 84078	
PHONE NUMBER: 303 308-3068 Ext	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0473 FSL 1856 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 20 Township: 07.0S Range: 23.0E Meridian: S	

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: 11/26/2014	<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: January 08, 2014

By:

NAME (PLEASE PRINT) Valyn Davis	PHONE NUMBER 435 781-4369	TITLE Regulatory Affairs Analyst
SIGNATURE N/A	DATE 12/31/2013	



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 43047532990000

API: 43047532990000

Well Name: RW 34-20BGR

Location: 0473 FSL 1856 FEL QTR SWSE SEC 20 TWP 070S RNG 230E MER S

Company Permit Issued to: QEP ENERGY COMPANY

Date Original Permit Issued: 11/26/2012

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: 12/31/2013

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.	
1. TYPE OF WELL Gas Well	5. LEASE DESIGNATION AND SERIAL NUMBER: UTU02030
2. NAME OF OPERATOR: QEP ENERGY COMPANY	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 11002 East 17500 South , Vernal, Ut, 84078	7. UNIT or CA AGREEMENT NAME: RED WASH
PHONE NUMBER: 303 308-3068 Ext	8. WELL NAME and NUMBER: RW 34-20BGR
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0473 FSL 1856 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 20 Township: 07.0S Range: 23.0E Meridian: S	9. API NUMBER: 43047532990000
	9. FIELD and POOL or WILDCAT: RED WASH
	COUNTY: Uintah
	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input 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: 8/15/2014	<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 AUGUST 15, 2014, QEP ENERGY COMPANY SET 80' OF 14" CONDUCTOR PIPE WITH READY MIX.

**Accepted by the
 Utah Division of
 Oil, Gas and Mining
 FOR RECORD ONLY
 August 18, 2014**

NAME (PLEASE PRINT) Benna Muth	PHONE NUMBER 435 781-4320	TITLE Regulatory Assistant
SIGNATURE N/A	DATE 8/18/2014	

BLM - Vernal Field Office - Notification Form

Operator QEP ENERGY Rig Name/# SST#88 Submitted

By DAVID REID Phone Number 435 828 0396

Well Name/Number RW 34-20BGR

Qtr/Qtr Section 20 Township 7S Range 23E

Lease Serial Number UTU 02030

API Number 43-047-53299-00-X1

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

Date/Time 8/15/2014 7:00 AM

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

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

Date/Time 9/11/2014 03:00 AM
PM

BOPE

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

Date/Time 9/12/2014 14:00 HRS AM PM

Remarks WE WILL TD SURFACE @ 3926' AT 14:00 HRS ON 9/10/2014. WE WILL START RUNNING THE 9 5/8" CASIIG AROUND 3:00 AM ON 9/11/2014 AND CEMENT AROUND 13:00 HRS ON THAT DAY. TEST BOP'S ON FRIDAY 9/12/2014 @ 10:00 HRS.

BLM - Vernal Field Office - Notification Form

Operator QEP ENERGY Rig Name/# SST#88 Submitted
By JIMMY KITTRELL Phone Number 435 828 0396
Well Name/Number RW 34-20BGR
Qtr/Qtr SWSE Section 20 Township 7S Range 23E
Lease Serial Number UTU 02030
API Number 43-047-53299-00-X1

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

Date/Time _____ AM PM

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

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

Date/Time 11/23/2014 13:00 AM
PM

BOPE

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

Date/Time _____ AM PM

Remarks WE WILL START RUNNING 4 1/2"
PRODUCTON CASING AROUND 13:00 PM ON 11/23/
2014 RUN SWELL PACKERS FOR ISOLATION, AND
LINER HANGER, WITH TIEBACK STRING TO SURFACE .

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		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
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.		7. UNIT or CA AGREEMENT NAME: RED WASH
1. TYPE OF WELL Gas Well		8. WELL NAME and NUMBER: RW 34-20BGR
2. NAME OF OPERATOR: QEP ENERGY COMPANY		9. API NUMBER: 43047532990000
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: 0473 FSL 1856 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE 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 checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 12/25/2014	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input type="text"/>

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

THIS WELL COMMENCED PRODUCTION ON DECEMBER 25, 2014 @ 11:45
A.M.

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
January 02, 2015**

NAME (PLEASE PRINT) Valyn Davis	PHONE NUMBER 435 781-4369	TITLE Regulatory Affairs Analyst
SIGNATURE N/A	DATE 12/29/2014	

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

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 34-20BGR

1a. TYPE OF WELL: OIL WELL GAS WELL DRY OTHER _____

b. TYPE OF WORK: NEW WELL HORIZ. LATS. DEEP-EN RE-ENTRY DIFF. RESVR. OTHER _____

2. NAME OF OPERATOR:
QEP ENERGY COMPANY

3. ADDRESS OF OPERATOR: **11002 E. 17500 S. CITY VERNAL STATE UT ZIP 84078** PHONE NUMBER: **(435) 781-4320**

9. API NUMBER:
4304753299

10. FIELD AND POOL, OR WILDCAT
RED WASH

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: **SEC. 20, SWSE, 473' FSL, 1856' FEL**

AT TOP PRODUCING INTERVAL REPORTED BELOW: **SEC. 20, SWSE, 473' FSL, 1856' FEL**

AT TOTAL DEPTH: **SEC. 32, NWSW, 2596' FSL, 798' FWL**

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
SWSE 20 7S 23E

12. COUNTY
UINTAH

13. STATE
UTAH

14. DATE SPURRED: **8/15/2014** 15. DATE T.D. REACHED: **11/18/2014** 16. DATE COMPLETED: **12/24/2014** ABANDONED READY TO PRODUCE

17. ELEVATIONS (DF, RKB, RT, GL):
5527' GL

18. TOTAL DEPTH: MD **19,824** TVD **11,200** 19. PLUG BACK T.D.: MD _____ TVD _____

20. IF MULTIPLE COMPLETIONS, HOW MANY? * _____

21. DEPTH BRIDGE MD _____ TVD _____

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)
TRIPLE COMBO, CBL

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

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

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
12.25	9.625 P11 ^{1/2}	40	0	3,926		985	435		
8.75	7 HCP ^{1/2}	29	0	11,611		1,829	507	4160	
6.125	4.5 Q12 ^{1/2}	15.1	10,542	19,730		0	0		

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2.375	11,356							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) MESA VERDE	11,679	19,730			11,679 19,730		1	Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(B)					18,704 18,711	.42	43	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"/>

27. PERFORATION RECORD

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
11,679 - 19,730	108,357 BBLS SLICKWATER; 3,274,570 LBS 100 MESH SAND;
	1,421,370 LBS 30/50 SAND

29. ENCLOSED ATTACHMENTS:

ELECTRICAL/MECHANICAL LOGS GEOLOGIC REPORT DST REPORT DIRECTIONAL SURVEY

SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION CORE ANALYSIS OTHER: **OPS SUMMARY**

30. WELL STATUS:
PGW

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 12/25/2014		TEST DATE: 12/31/2014		HOURS TESTED: 24		TEST PRODUCTION RATES: →		OIL – BBL: 10	GAS – MCF: 8,192	WATER – BBL: 3,416	PROD. METHOD: FLOWS
CHOKE SIZE: 28/64	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL: 10	GAS – MCF: 8,192	WATER – BBL: 3,416	INTERVAL STATUS:	

INTERVAL B (As shown in item #26)

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

INTERVAL C (As shown in item #26)

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

INTERVAL D (As shown in item #26)

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

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

SOLD

33. SUMMARY OF POROUS ZONES (Include Aquifers):

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

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				GREEN RIVER	3,417
				MAHOGANY MARKER	3,797
				WASATCH	6,437
				MESA VERDE	8,899
				SEGO	11,737

35. ADDITIONAL REMARKS (Include plugging procedure)

#27. 11,679 - 19,730: SLIDING SLEEVE

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 1/26/2015

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



Daily Activity and Cost Summary

Well Name: RW 34-20BGR

API 43-047-53299		Surface Legal Location S20-T7S-R23E		Field Name RED WASH		County UINTAH		State UTAH		Well Configuration Type Horizontal	
Unique Well ID UT100240		Ground Elevation (ft) 5,519.8		Casing Flange Elevation (ft) 5,519.80		Current KB to GL (ft) 30.00		KB to CF (ft) 30.00		Spud Date 8/15/2014 07:00	
Job Category DRILLING		Primary Job Type AFE - DRL-DR (Drilling)				Secondary Job Type				Objective	
Start Date 9/3/2014						Job End Date 11/28/2014					
Purpose											
Summary											

Contractor SST Energy				RIG SST 88				Rig Type ROTARY RIG			
--------------------------	--	--	--	---------------	--	--	--	------------------------	--	--	--

RPT #	Start Date	Summary
1	9/3/2014	CLEAN DERRICK AND SUB, PREPARE AND ORGANIZE RIG FOR TRUCKS
2	9/4/2014	LOAD OUT AND SET MUD PUMPS, SCR HOUSE, MUD TANKS, TRIP TANK, RIG MATTS, SWING DERRICK FROM SUB, BREAK DOWN SUB AND HAUL TO NEW LOCATION, WAIT ON DAYLIGHTS
3	9/5/2014	FINISH SETTING IN BACK YARD, SET AND STACK SUBS, INSTALL FLOOR PLATES AND SPREADERS, SWING DERRICK AND DOG HOUSE ON FLOOR, INSTALL DERRICK BOARD, SET GAS BUSTER AND BUSTER LINES, SET MUD CLEANING EQUIPMENT ON BACK OF PITS
4	9/6/2014	READY DERRICK AND REAISE, RIG UP TOP DRIVE AND FLOOR, RUN ELETRICAL AND PASON LINES, FILL MUD TANKS, PRIME PUMPS, HANG SHAKER SLIDES, LAYOUT AND STRAP BHA, ,WELD ON CONDUCTOR, NIBBLE UP FLOW LINE
5	9/7/2014	FINISH NIPPLE UP FLOW LINE, PRE-SPUD INSPECTION, PICK UP BIT AND MOTOR, DRILL F/110' T/219',TRIP OUT 2 STANDS, PICK UP MONELS AND DIR. TOOLS, DRILL F/219' T/2032 SURVEYS AND CONNRCTIONS
6	9/8/2014	DRILL F/2032' T/2823', PERFORM WIPER TRIP F/2823' T/491', REAM F/2397' T/2823', DRILL F/2823' T/3443', WORK STUCK PIPE @ 3490'
7	9/9/2014	WORK STUCK PIPE, CIRCULATE HI VIS SWEEP OUT OF HOLE, BACK REAM F/3333 T/2980', TRIP OUT OF HOLE, LAYDOWN MOTOR SCRIBE AND ORIENT MWD, TRIP IN HOLE FILLING PIPE AND PUMPING HI VIS SWEEPS EVERY 10 STANDS,
8	9/10/2014	DRILL F/3488' T/3926', CIRCULATE SWEEP FOR WIPER TRIP, WIPER TRIP T/3626', CIRCULATE SWEEPS FOR 2ND WIPER TRIP, WIPER TRIP TO 2500' AND BACK TO BOTTOM, CIRCULATE SWEEPS AND SPOT WALNUT IN OPEN HOLE, TRIP OUT TO RUN CASING, LAYDOWN DIRECTIONAL TOOLS, RIG UP CASING CREW
9	9/11/2014	RUN CASING TO 3725', WASH CASING F/3725'-2926', CIRCULATE FOR CEMENT, RIG UP CEMENTERS, CEMENT CASING, WAIT ON CEMENT, RUN CEMENT TOP OUT, CUT CONDUCTOR AND CASING, WELD ON WELL HEAD, NIPPLE UP BOP, TEST BOP
10	9/12/2014	NIPPLE UP BOP, INSPECT TOPDRIVE BALES AND ELEVATORS, REPAIR RIG WAIT ON NEW DOUBLE GATE (PIPE RAMS FAILED), NIPPLE UP NEW DOUBLE GATE RAMS
11	9/13/2014	PRESSURE TEST BOP AND SURFACE CASING, SET WEAR BUSHING, PICK UP DIR. TOOLS, TRIP IN HOLE, DRILL DHOE TRACK +10' OF NEW FORMATION, SPOT LCM SWEEP AND FIT TEST, DRILL F/3936' T/5210, SURVEYS AND CONNECTIONS
12	9/14/2014	DRILL F/5210' T/5874', ROUTINE RIG SERVICE, DRILL F/5874' T/6635, SURVEYS AND CONNECTIONS
13	9/15/2014	DRILL F/6635' T/6825', CIRCULATE HI VIS SWEEP AND PUMP TRIP SLUG, TRIP OUT OF HOLE, CHANGE OUT BIT AND MOTOR SCRIBE AND ORIENT MWD, TRIP IN HOLE FILLING PIPE EVERY 2000', SAFETY REAM TO BOTTOM, DRILL F/6825' T/
14	9/16/2014	DRILL F/7400' T/8159', ROUTINE RIG SERVICE, DRILL F/8159' T/8965, SURVEYS AND CONNECTIONS
15	9/17/2014	DRILL, RIG SERVICE, SURVEY AND CONNECTIONS
16	9/18/2014	DRILL,RIG SERVICE,SURVEY CONNECTION,CIRC,WIPER TRIP OUT,CUT DRILL LINE,TRIP IN,CIRC,TRIP OUT FOR LOGS
17	9/19/2014	TRIP OUT,TRIPLE COMBO LOG,LAY DOWN DIRECTIONAL TOOLS,PICK UP CRUVE BHA,TRIP IN,GAMMA F/ 10,259 TO 10571, DRILL
18	9/20/2014	SLIDE TO BUILD CURVE, CONNECTION SURVEY
19	9/21/2014	SLIDE TO BUILD CURVE, CONNECTION SURVEY,RIG SERVICE
20	9/22/2014	SLIDE TO BUILD CURVE, CONNECTION SURVEY,RIG SERVICE,CIRCULATE SWEEP, WIPER TRIP TO SHOE, WORK ON PUMPS, TRIP IN HOLE
21	9/23/2014	REAM, TRIP TO KOP,WORK ON PUMPS,TRIP TO SHOE,WORK ON PUMPS AND CLEAN MUD SYSTEM
22	9/24/2014	BUILD VOLUME, TRIP IN, WASH REAM F/ 11251 TO 11621, CIRC CONDITION, WIPER TRIP OUT BACK REAM TO 10,920, WORK STUCK PIPE
23	9/25/2014	CIRCULATE RAISE MUD WEIGHT,WIPER TRIP TO KOP, WASH REAM F/ 11310 TO 11621, CIRC 2 SWEEPS,TRIP OUT TO RUN 7" CASING, PULL WEAR BUSHING, RIG UP AND RUN CASING
24	9/26/2014	RUN CASING, LAND CASING,CIRCULATE CASING, SET PACK OFF, CEMENT CASING
25	9/27/2014	LAY DOWN PIPE FROM DERRICK,NIPPLE UP BOP,TEST BOP
26	9/28/2014	TEST BOP,PICK UP BHA, TEST MWD, PICK UP DRILL PIPE



Daily Activity and Cost Summary

Well Name: RW 34-20BGR

API		Surface Legal Location		Field Name		County		State		Well Configuration Type	
43-047-53299		S20-T7S-R23E		RED WASH		UINTAH		UTAH		Horizontal	
Unique Well ID		Ground Elevation (ft)		Casing Flange Elevation (ft)		Current KB to GL (ft)		KB to CF (ft)		Spud Date	
UT100240		5,519.8		5,519.80		30.00		30.00		8/15/2014 07:00	
RPT #		Start Date		Summary							
27	9/29/2014	CHANGE ROT HEAD,CUT DRILL LINE, DRILL SHOE TRACK, FIT, DRILL, TRIP OUT FOR BOND LOG, RUN BOND LOG									
28	9/30/2014	BOND LOG, PICK UP DIRECTIONAL TOOLS,TRIP IN,CIRC ECD,DRILL,CONNECTION SURVEY									
29	10/1/2014	DRILL F/11900' T/12307', ROUTINE RIG SERVICE- CONNECTIONS AND SURVEYS									
30	10/2/2014	DRILL F/12307' T/12400', ROUTINE RIG SERVICE, DRILL F/12400' T/12559 , CHECK CASING PRESSURE-160 PSI AND CIRCULATE BOTTOMS UP,STRIP OUT TO 10607' HOLDING 250 PSI. PUMP AND DISPLACE 50 BBLs OF KILL MUD , TRIP OUT OF HOLE									
31	10/3/2014	TRIP OUT OF HOLE, CHANGE BIT MOTOR AND ORIENT MWD, TRIP IN HOLE TEST MWD EVERY 2000' TO 11,600', CIRCULATE AND CATCH KILL MUD, STRIP IN HOLE HOLDING 150 PSI CASING PRESSURE. SAFETY WASH 60' TO BOTTOM. DRILL F/12559 T/12746									
32	10/4/2014	DRILL F/12746 T/12872 ,ROUTINE RIG SERVICE, DRILL F/12872 T/ 13145 SURVEYS AND CONNECTIONS									
33	10/5/2014	DRILL F/13145' T/13281', WORK TIGHT HOLE, WIPER TRIP 3 STANDS, CIRCULATE BOTTOMS UP, PUMP 40 BBLs 16# KILL MUD AND STRIP OUT T/10,590', PUMP REMAINDER OF KILL MUD AND DISPLACE, SWAP ROTATING HEADS AND FLOW CHECK WELL, TRIP OUT HOLE, CHANGE OUT MOTOR,BIT AND MWD TOOLS, SCRIBE AND TEST. TRIP IN HOLE FILLING EVERY 3500'.									
34	10/6/2014	SWAP ROTATING HEADS CIRCULATE OUTANS CATCH KILL MUD, STRIP IN HOLE, SAFETY REAM TO BOTTOM DRILL F/13281' T/13630 , RIG REPAIR, COULDN'T BREAK CONNECTION HAD TO LAY DOWN 1 JOINT AND SAVER SUB									
35	10/7/2014	BACK REAM F/13632' T/13120,CIRCULATE OUT GAS AND READY KILL MUD, STRIP OUT TO 11517', PUMP KILL MUD AND DISPLACE. CLEAN OUT MUD TANKS AND CHANGE OUT TO OILBASE MUD, RIG UP DRIP PANS									
36	10/8/2014	HAUL OBM TO MUD TANKS, HANG AUGER SYSTEM AND SET DRY SHAKER CONDITION OBM WITH DIESEL FUEL AS IT WAS TRANSFERED TO MUD TANKS, DISPLACE DRILL PIPE WITH OBM AT SHOE, TRIP IN HOLE T/13023' AND DISPLACE CAL. CHLORIDE WITH OBM,REAM F/13023 T/13241. WORK STUCK PIPE @ 13241. CAME FREE, TRY TO REAM AND WON'T. CHECK CASING PRESSURE AND TRIP UP TO KOP.FINISH PUMPING KILL MUD AND DISPLACE									
37	10/9/2014	SWAP ROTATING HEADS, FLOW CHECK WELL AND TRIP OUT FILLING HOLE WITH TRIP TANK, LAY DOWN DIR. TOOLS AND MOTOR,WAIT ON DSIDE TRACK MOTOR, PICK UP TOOLS AND TEST. TRIP IN HOLE FILLING EVERY 40 STANDS									
38	10/10/2014	TRIP IN HOLE FILLING PIPE EVERY 40 STANDS, CIRCULATE ANC CATCH KILL MUD @ 11,650', TRIP IN HOLE TO 12,933', TROUGH FOR SIDETRACK F/ 12,933T/12903. TIME DRILL F/12933 T/12966. TIME DRILLING									
39	10/11/2014	TIME DRILL F/12966' T/12968' TEST LEDGE, LOST LEDGE TROUGH WELL 12915' T/12930', TRIME DRILL 1'/HR F/5', THEN 2'/HR F/3', F/ 12930 T/12959. CHECK CASING PRESSURE,200 PSI AND PUMP 30 BBLs KILL MUD. STRIP OUT OOT 10475 HOLDING 350 PSI. PUMP AND DISPLACE KILL MUD, SWAP OUT ROTATIN HEAD AND TRIP OUT OF HOLE									
40	10/12/2014	TRIP OUT OF HOLE CHANGE BIT AND MOTOR, ORIENT MWD TOOL, TRIP IN TO SHOE FILLING PIPE EVERY 30 STANDS, SWAP ROT. HEADS, ROUTINE RIG SERVICE, CIRCULATE OUT AND CATCH KILL MUD OBTAIN SICP, STRIP IN HOLE TO 12,926, ORIENT TOOLS AND CHECK FOR LEDGE. TIME DRILL F/12933 T/12953									
41	10/13/2014	TIME DRILL F/12953' T/12962', TEST LEDGE NONE FOUND, CIRCULATE OBTAIN SICP, PUMP KILL MUD AND STRIP OUT TO 10,500' PUMP REMAINDER OF KILL MUD AND DISPLACE, TRIP OUT OF HOLE, CHANGE OUT BHA AND PICK UP WHIP STOCK ASSEMBLY. TRIP IN HOLE @ 2 MIN. PER STAND									
42	10/14/2014	TRIP IN HOLE TO 11,143', CIRCUALTE AND CATCH KILL MUD, STRIP IN HOLE, ORIENT WHIPSTOCK AND SET, PUMP AND ANCHOR WHIPSTOCK, MILL OFF WHIP F/12552 T/12665',CIRC. BOTTOMS UP AND 60 BBLs KILL MUD, STRIP OUT OF HOLE TO 10500, PUMP REMAINDER OF KILL MUD AND DISPLACE. TRIP OUT OF HOLE. LAY DOWN MILL ASSEMBLY, PICK UP MOTOR, BIT AND MWD. TRIP IN HOLE									
43	10/15/2014	TRIP IN, CUT DRILL LINE, TRIP TO 12840, MWD NOT WORKING, PUMP 60 BBL ECD, STRIP OUT TO KOP,PUMP SECOND ECD AND DRY JOB, TRIP OUT TO 7318, WELL FLOWING, CIRC B/U, SPOT ECD AND PUMP PILL,TRIP OUT, CHANGE BHA AROUND, CHANGE BIT, TEST MWD, TRIP IN HOLE									
44	10/16/2014	TRIP IN HOLE TO 7320, CIRCULATE ECD PILL,TRIP IN TO 11,635, CIRCULATE ECD PILL,STRIP IN HOLE TO 12,840, ORIENT TOOL SLIDE THROUGH WHIP STOCK, DIRECTIONAL DRILL									
45	10/17/2014	DRILL, PUMP 60 BBLs ECD T.O.H TO KOP, SPOT ECD PILL, P.O.O.H , CHANGE BHA TEST MWD, T.I.H, CIRCULATE OUT ECD PILLS, @ 5000, 8,000' & 11,635, T.I.H TO 12,840 ORIENT TOOL SLIDE THROUGH WHIPSTOCK,									
46	10/18/2014	ORIENT TOOL SLIDE THROUGH WHIP STOCK,DRILL,RIG SERVICE,SURVEY									
47	10/19/2014	DRILL,SURVEY,RIG SERVICE									
48	10/20/2014	DRILL,SURVEY,RIG SERVICE									
49	10/21/2014	DRILL, SURVEY, RIG SERVICE, TROUBLE SHOT MWD, PUMP ECD, TRIP TO KOP, SPOT ECD PUMP PILL, FLOW CHECK CHANGE ROTATE HEADS, TRIP OUT FLOW CHECK AT 9500,7200,4850									



Daily Activity and Cost Summary

Well Name: RW 34-20BGR

API 43-047-53299	Surface Legal Location S20-T7S-R23E	Field Name RED WASH	County UINTAH	State UTAH	Well Configuration Type Horizontal
Unique Well ID UT100240	Ground Elevation (ft) 5,519.8	Casing Flange Elevation (ft) 5,519.80	Current KB to GL (ft) 30.00	KB to CF (ft) 30.00	Spud Date 8/15/2014 07:00
Dry Hole TD Date 11/18/2014 07:00					

RPT #	Start Date	Summary
50	10/22/2014	CHANGE BHA,TEST MWD,TRIP TO 6000', CIRC B/U, TRIP TO SHOE 11650, CIRC B/U, TRIP TO 12840 ORIENT MOTOR TO WHIP STOCK SLIDE THROUGH, TRIP IN TO 13,833, WASH REAM TO 14211, RE GAMMA LOG F/ 14211 TO 14253, DRILL/SLIDE
51	10/23/2014	DRILL, CIRCULATE PUMP 60 BLL 16#, STRIP OUT TO 10,535, SPOT ECD PUMP SLUG, TRIP OUT TO 6471, FLOW CHECK WELL FLOWING,CIRCULATE BOTTOMS UP, SPOT 35BBL 16# ECD PILL, TRIP OUT, CHNAGE BHA, TRIP IN
52	10/24/2014	CHANGE OUT ROTATE HEADS, TEST MWD, BAD TEST TRIP OUT CHANGE OUT MWD,TRIP IN TO 5000,CIRC BOTTOMS UP, CUT DRILL LINE,TRIP IN TO 8000,CIRC BOTOMS UP,TRIP IN TO 11,635,CIRC BOTTOMS UP,TRIP IN TO 12,840 ORIENT SLIDE THRU WHIP STOCK, TRIP IN TO 13,583, REAM TO 13,930, HOLE PACKING OF BACK REAM TO 13,747, HOLE FREE REAM IN TO 14,149, TRIP F/ 14149 TO 14435, SAFTEY REAM F/ 14435 TO 14853, BREAK IN BIT, DRILL
53	10/25/2014	DRILL, CONNECTION SURVEY,RIG SERVICE
54	10/26/2014	DRILL,PUMP ECD,TRIP TO KOP,PUMP SECOND ECD,TRIP OUT,SCRIBE OUT,LAY DOWN BHA,PULL WEAR BUSHING,TEST BOP AND SWACO,INSTALL WEAR BUSHING,PICK UP BHA,TRIP IN HOLE
55	10/27/2014	TRIP IN HOLE,CIRCULATE ECD PILLS OUT, TRIP IN ORIENT FOR WHIP STOCK, SLIDE THRU, TRIP IN, SAFTEY REAM, RE GAMMA LOG, RIG SERVICE, DRILL
56	10/28/2014	DRILL,SURVEY,RIG SERVICE
57	10/29/2014	DRILLING F/15228' T/15449', ROUTINE RIG SERVICE DRILL F/15449' T/15702, CONNECTIONS AND SURVEYS
58	10/30/2014	DRILLING F/15702 T/15890', ROUTINE RIG SERVICE, DRILL F/15890' T/16110 , CONNECTIONS AND SURVEYS
59	10/31/2014	DRILLING F/16110 T/ 16265', ROUTINE RIG SERVICE, DRILL F/16265' T/16518 , CONNECTIONS AND SURVEYS
60	11/1/2014	DRILLING F/16518 T/ 16578, CHANGE OUT SWIVLE PACKING, ROUTINE RIG SERVICE, DRLLING F/16578 T/16623', CONNECTIONS AND SURVEYS, PUMP 35BBLs KILL MUD STRIP OUT TO 10,580', PUMP REMAINDER KILL MUD AND DISPLACE, FLOW CHECK SWAP ROT. HEADS AND TRIP OUT
61	11/2/2014	TRIP IN HOLE TO SHOE, CIRCULATE KILL MUD OUT OF HOLE, STRIP IN HOLE HOLDING 300 PSI, SATETY WASH 75' TO BOTTOM. DRILLING F/16623 T/16783, CONNECTIONS AND SURVEYS
62	11/3/2014	DRILLING F/16783 T/16927, RIG SERVICE, DRILLING F/16927 T/17015' CONNECTIONS AND SURVEYS
63	11/4/2014	DRILLING F/17015 T/17115, ROUTINE RIG SERVICE, DRILL F/17115 T/ 17415, CONNECTIONS AND SURVEYS
64	11/5/2014	DRILL F/17415' T/17619', ROUTINE RIG SERVICE, DRILL F/17619' T/17760', CONNECTIONS AND SURVEYS
65	11/6/2014	DRILL F/17760' T/17799', TROUBLE SHOOT MWD & CIRCULATE BTMS UP, PUMP 40 BBLs KILL MUD AND STRIP OUT TO 10,544', PUMP REMAINDER OF KILL MUD AND DISPLACE, SWAP ROTATING HEADS AND TRIP OUT, CHANGE BIT, MOTOR, AND ORIENT & TEST MWD, TRIP IN HOLE
66	11/7/2014	TRIP IN HOLE TO SHOE, CUT DRILLING LINE AND CIRCULTE KILL MUD OUT OF HOLE, TRIP IN HOLE T/16470', WASH REAM F/16740' T/17799', DRILL F/17799' T/17955', CONNECTIONS AND SURVEYS
67	11/8/2014	DRILLING F/17955 T/18217', ROUTINE RIG SERVICE, DRILL F/18217' T/18470 , CONNECTIONS AND SURVEYS
68	11/9/2014	DRILL F/18470' T/18513', TROUBLE SHOOT PRESSURE INCREASE, CIRCULATE BOTTOMS UP AND PUMP KILL MUD, STRIP OUT TO KOP, PUMP REMAINDER OF KILL MUD, TRIP OUT, REPAIR PIPE SPINNERS, FINISH TRIPPING OUT, CHANGE BIT MOTOR AND ORIENT MWD, TRIP IN HOLE FILLING PIPE EVERY 40 STANDS
69	11/10/2014	TRIP IN HOLE TO SHOE, CIRCULTE KILL MUD OUT OF HOLE. STRIP IN HOLE TO 18230'. REAM F/18230 T/18513. DRILLING F/18230 T/18233, RIG SERVICE AND CONNECTIONS AND SURVEYS . DRILLING F/18533 T/18821, TROUBLE SHOOT MWD, CIRCULATE BOTTOMS UP, PUMP KILL MUD STRIP OUT TO KOP,
70	11/11/2014	DRILLING F/18831 T/18878, ROUTINE RIG SERVICE, DRILL F/18878' T/18955', OBTAIN SICP AND CIRCULATE BOTTOMS UP, PUMP 50 BBLs KILL MUD AND STRIP OUT TO 10,514', PUMP 50 BBLs KILL MUD AND DISPLACE, FLOW CHECK WELL/NO FLOW SWAP ROTATING HEADS AND TRIP OUT, CHANGE BIT , MOTOR, AND MWD TOOL CREIBE AND ORIENT NEW MWD TOOL, TRIP IN HOLE TEST MWD AT SURFACE,
71	11/12/2014	TRIP IN HOLE,CIRCULATE OUT ECD PILLS,SAFTEY REAM,RELOG GAMMA,DRILL, SURVEY
72	11/13/2014	SLIDE TO DROP ANGLE, ROTATE DRILL, WIPER TRIP BACK REAM 5 STANDS, ATTEMPT TO DRILL, PUMP ECD STRIP OUT TO 10,576, SPOT ECD PUMP SLUG CHANGE ROT HEAD, FLOW CHECK, TRIP OUT FOR BHA
73	11/14/2014	TOOH,CHANGE BHA,TRIP IN, TEST MWD,TRIP IN CIRC ECD AND SLUG,TRIP IN TO SHOE,CUT DRILL LINE,RIG SERVICE,TRIP IN, SAFTEY REAM
74	11/15/2014	DRILL, SURVEY, CONNECTION, PUMP ECD,STRIP OUT TO 10,546, SPOT ECD, PUMP SLUG, CHANGE ROTATE HEAD, TRIP OUT FOR BHA
75	11/16/2014	TOOH,CHANGE BHA,TRIP IN, TEST MWD,TRIP IN CIRC ECD AND SLUG,TRIP IN TO SHOE, CIRC ECD OUT,TRIP IN, SAFTEY REAM,DRILL
76	11/17/2014	DRILL,CONNECTION SURVEY,RIG SERVICE, WORK TIGHT SPOT 19760 TO 19822
77	11/18/2014	SLIDE,WORK TIGHT HOLE, BRING UP NUD WEIGHT TO 10.8, STRIP OUT, BACK REAM TIGHT SPOTS,CIRCULATE ECD OUT AT SHOE, SPOT ECD, TRIP OUT TO 6080, RIG UP LAY DOWN TRUCK, LAY DOWN 25 STANDS



Daily Activity and Cost Summary

Well Name: RW 34-20BGR

API 43-047-53299	Surface Legal Location S20-T7S-R23E	Field Name RED WASH	County UINTAH	State UTAH	Well Configuration Type Horizontal
Unique Well ID UT100240	Ground Elevation (ft) 5,519.8	Casing Flange Elevation (ft) 5,519.80	Current KB to GL (ft) 30.00	KB to CF (ft) 30.00	Spud Date 8/15/2014 07:00
Dry Hole TD Date 11/18/2014 07:00					

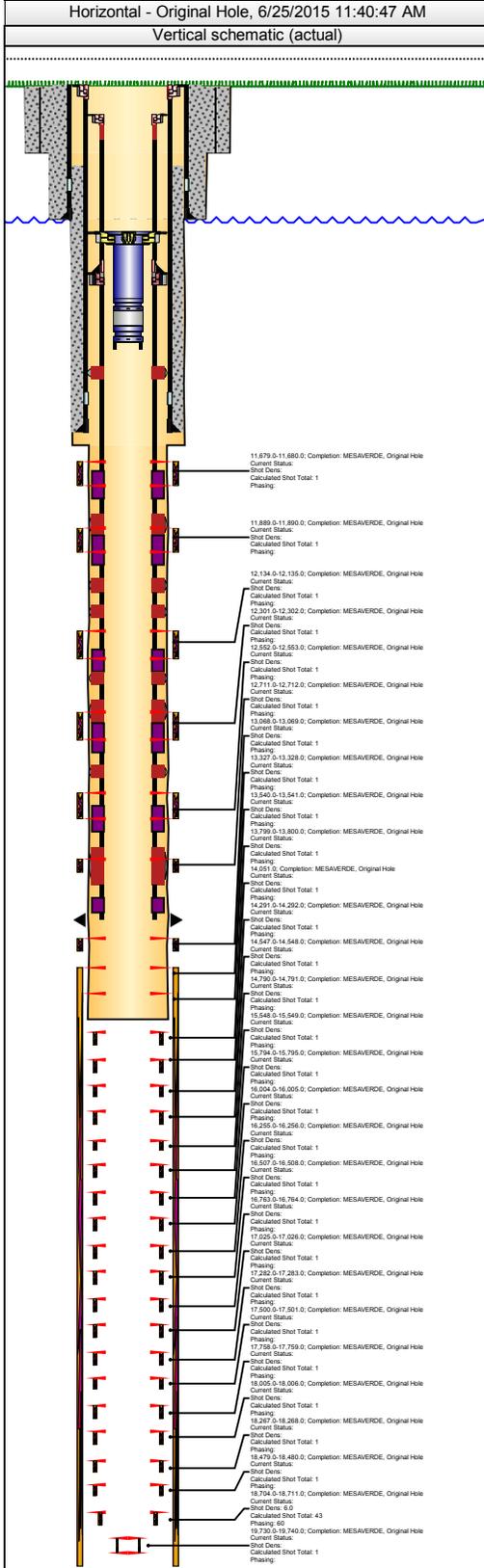
RPT #	Start Date	Summary
78	11/19/2014	LAY DOWN PIPE, TRIP OUT, LAY DOWN DIRECTIONAL BHA, PICK UP REAMER BHA, TRIP IN DRILL PIPE 40 STANDS, PICK UP HWDP, TRIP OUT HWDP, TRIP IN DRILL PIPE TO 8545, CUT DRILL LINE CIRC BOTTOMS UP, TRIP IN HOLE
79	11/20/2014	TRIP IN, CIRCULATE ECD OUT, REAM, RIG SERVICE
80	11/21/2014	REAM FOR CASING RUN
81	11/22/2014	REAM, CIRC SWEEPS, WIPER TRIP OUT, LAY DOWN 25 STANDS D/P, TRIP IN TO 9330, CIRC FIRST 1/2 ECD OUT, TRIP IN 11,686, CIRC SECOND 1/2 ECD OUT, TRIP IN HOLE
82	11/23/2014	CIRC, SPOT BEAD, STRIP OUT HOLE TO KOP, SPOT ECD PILL, PULL OUT HOLE 47 STANDS, L/D 59 STANDS OF 4" D.P., PJSM W/WEATHERFORD, HALLIBURTON, CREW, R/U & RUN CASING
83	11/24/2014	RUN 4 1/2 CASING LINER, P/U & M/U LINER HANGER, TRIP IN HOLE W/DRILL PIPE & LINER
84	11/25/2014	RUN 4.5 LINER, SET HANGER, BACK OFF HANGER, DISPLACE CASING WITH BRINE, CHANGE BAILS, SLIP CUT DRILL LINE, LAY DOWN DRILL PIPE
85	11/26/2014	LAYDOWN DRILL PIPE TO HWDP, TRIP IN 38 STANDS FROM DERRICK, LAYDOWN REST OF DRILL PIPE AND HWDP, RIG UP TORQUE TURN AND RUN 257 4 1/2" TIE BACK STRING. CIRCULATE 225 BBLS CLEAN KCL WATER
86	11/27/2014	CIRCULATE CLEAN KCL WATER, SLACK OFF STING INTO HANGER SET 50K, PICK UP AND SPACE OUT, PICK UP 35' JOINT AND CASING FLUTED HANGER, SLACK OFF AND SET HANGER IN WELL HEAD, CLOSE ANNULAR & TEST BACKSIDE TO 2000 PSI, REMOVE LANDING JOINT, PICK UP AND SET CASING PACKOFF, PRESSURE TEST 7" ANNULAS TO 4000 PSI FOR 15 MIN, PICK UP AND SET BACK PRESSURE VALVE, RIG DOWN FLOOR AND CLEAN MUD TANKS



Perforations

Well Name: **RW 34-20BGR**

API 43-047-53299	Surface Legal Location S20-T7S-R23E	Field Name RED WASH	County UINTAH	State UTAH	Well Configuration Type Horizontal
Unique Well ID UT100240	Gr Elev (ft) 5,519.8	Current Elevation 5,549.80, SST 88 - KB 30	KB to CF (ft) 30.00	Spud Date 8/15/2014 07:00	Dry Hole TD Date 11/18/2014 07:00
Total Depth (All) (ft, KB)					



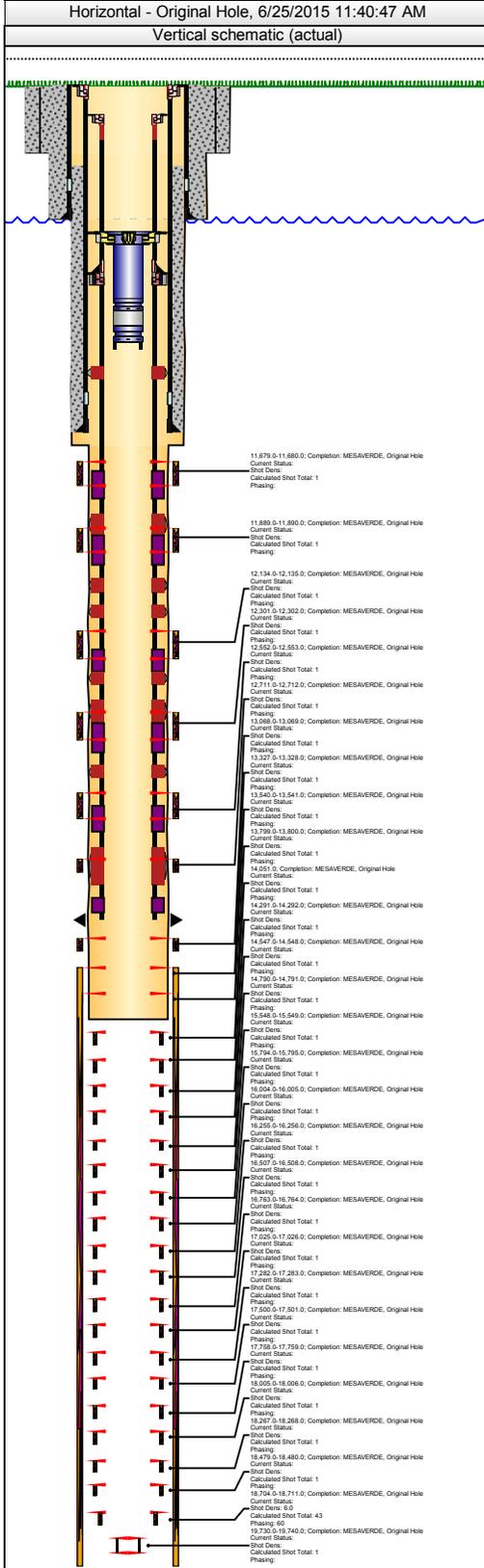
Perforations					
Date	12/24/2014	Completion	MESAVERDE, Original Hole	Top Depth (ft, KB)	11,679.0
Perforation Company		Conveyance Method		Gun Size (in)	
Shot Density (shots/ft)		Charge Type		Phasing (°)	
Orientation		Orientation Method			
Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB)	FL MD After (ft, KB)	P Surf Init (psi)	P Final Surf (psi)
Reference Log					
Calculated Shot Total					1
Perforation Statuses					
Date	12/24/2014	Completion	MESAVERDE, Original Hole	Top Depth (ft, KB)	11,889.0
Perforation Company		Conveyance Method		Gun Size (in)	
Shot Density (shots/ft)		Charge Type		Phasing (°)	
Orientation		Orientation Method			
Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB)	FL MD After (ft, KB)	P Surf Init (psi)	P Final Surf (psi)
Reference Log					
Calculated Shot Total					1
Perforation Statuses					
Date	12/24/2014	Completion	MESAVERDE, Original Hole	Top Depth (ft, KB)	12,134.0
Perforation Company		Conveyance Method		Gun Size (in)	
Shot Density (shots/ft)		Charge Type		Phasing (°)	
Orientation		Orientation Method			
Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB)	FL MD After (ft, KB)	P Surf Init (psi)	P Final Surf (psi)
Reference Log					
Calculated Shot Total					1
Perforation Statuses					
Date	12/24/2014	Completion	MESAVERDE, Original Hole	Top Depth (ft, KB)	12,301.0
Perforation Company		Conveyance Method		Gun Size (in)	
Shot Density (shots/ft)		Charge Type		Phasing (°)	
Orientation		Orientation Method			
Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB)	FL MD After (ft, KB)	P Surf Init (psi)	P Final Surf (psi)
Reference Log					
Calculated Shot Total					1



Perforations

Well Name: **RW 34-20BGR**

API 43-047-53299	Surface Legal Location S20-T7S-R23E	Field Name RED WASH	County UINTAH	State UTAH	Well Configuration Type Horizontal
Unique Well ID UT100240	Gr Elev (ft) 5,519.8	Current Elevation 5,549.80, SST 88 - KB 30	KB to CF (ft) 30.00	Spud Date 8/15/2014 07:00	Dry Hole TD Date 11/18/2014 07:00
Horizontal - Original Hole, 6/25/2015 11:40:47 AM			Vertical schematic (actual)		



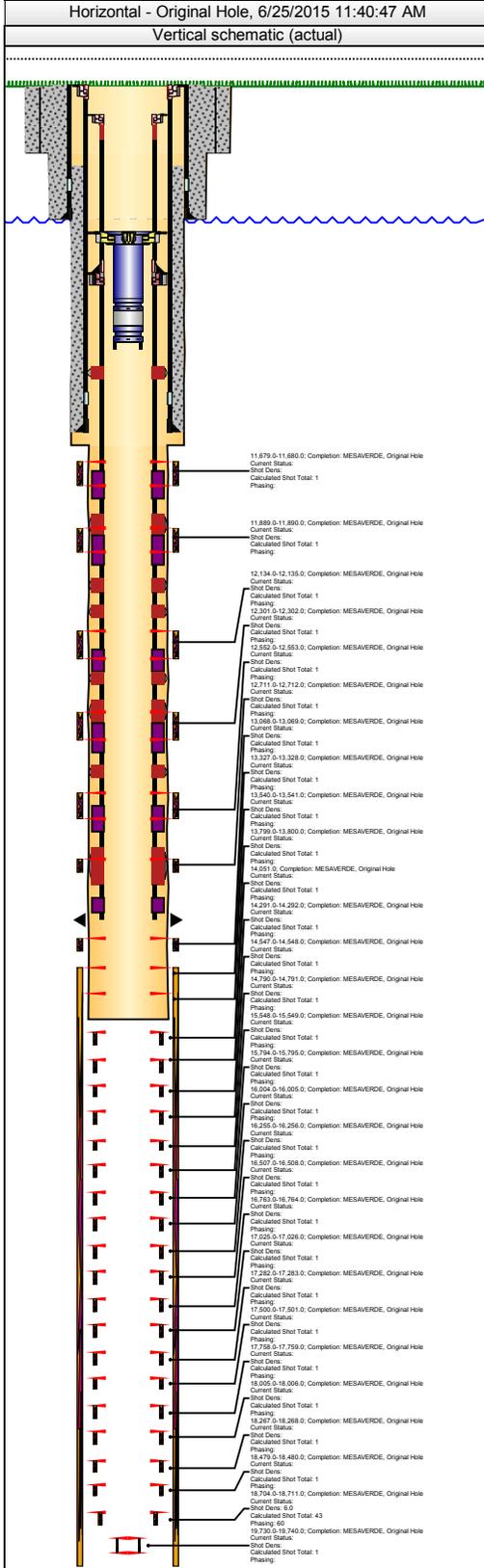
Perforation Statuses					
Date	Status	Com			
12/24/2014	MESAVERDE, Original Hole	Top Depth (ft, KB) 12,552.0	Bottom Depth (ft, KB) 12,553.0		
Perforation Company		Conveyance Method	Gun Size (in)	Carrier Make	
Shot Density (shots/ft)		Charge Type	Phasing (°)		
Orientation			Orientation Method		
Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB)	FL MD After (ft, KB)	P Surf Init (psi)	P Final Surf (psi)
Reference Log					
Calculated Shot Total					
1					
Perforation Statuses					
Date	Status	Com			
12/24/2014	MESAVERDE, Original Hole	Top Depth (ft, KB) 12,711.0	Bottom Depth (ft, KB) 12,712.0		
Perforation Company		Conveyance Method	Gun Size (in)	Carrier Make	
Shot Density (shots/ft)		Charge Type	Phasing (°)		
Orientation			Orientation Method		
Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB)	FL MD After (ft, KB)	P Surf Init (psi)	P Final Surf (psi)
Reference Log					
Calculated Shot Total					
1					
Perforation Statuses					
Date	Status	Com			
12/24/2014	MESAVERDE, Original Hole	Top Depth (ft, KB) 13,068.0	Bottom Depth (ft, KB) 13,069.0		
Perforation Company		Conveyance Method	Gun Size (in)	Carrier Make	
Shot Density (shots/ft)		Charge Type	Phasing (°)		
Orientation			Orientation Method		
Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB)	FL MD After (ft, KB)	P Surf Init (psi)	P Final Surf (psi)
Reference Log					
Calculated Shot Total					
1					
Perforation Statuses					
Date	Status	Com			
12/24/2014	MESAVERDE, Original Hole	Top Depth (ft, KB) 13,327.0	Bottom Depth (ft, KB) 13,328.0		
Perforation Company		Conveyance Method	Gun Size (in)	Carrier Make	
Shot Density (shots/ft)		Charge Type	Phasing (°)		
Orientation			Orientation Method		
Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB)	FL MD After (ft, KB)	P Surf Init (psi)	P Final Surf (psi)
Reference Log					
Calculated Shot Total					
1					



Perforations

Well Name: **RW 34-20BGR**

API 43-047-53299	Surface Legal Location S20-T7S-R23E	Field Name RED WASH	County UINTAH	State UTAH	Well Configuration Type Horizontal
Unique Well ID UT100240	Gr Elev (ft) 5,519.8	Current Elevation 5,549.80, SST 88 - KB 30	KB to CF (ft) 30.00	Spud Date 8/15/2014 07:00	Dry Hole TD Date 11/18/2014 07:00
Horizontal - Original Hole, 6/25/2015 11:40:47 AM			Perforation Statuses		
Vertical schematic (actual)			Date	Status	Com



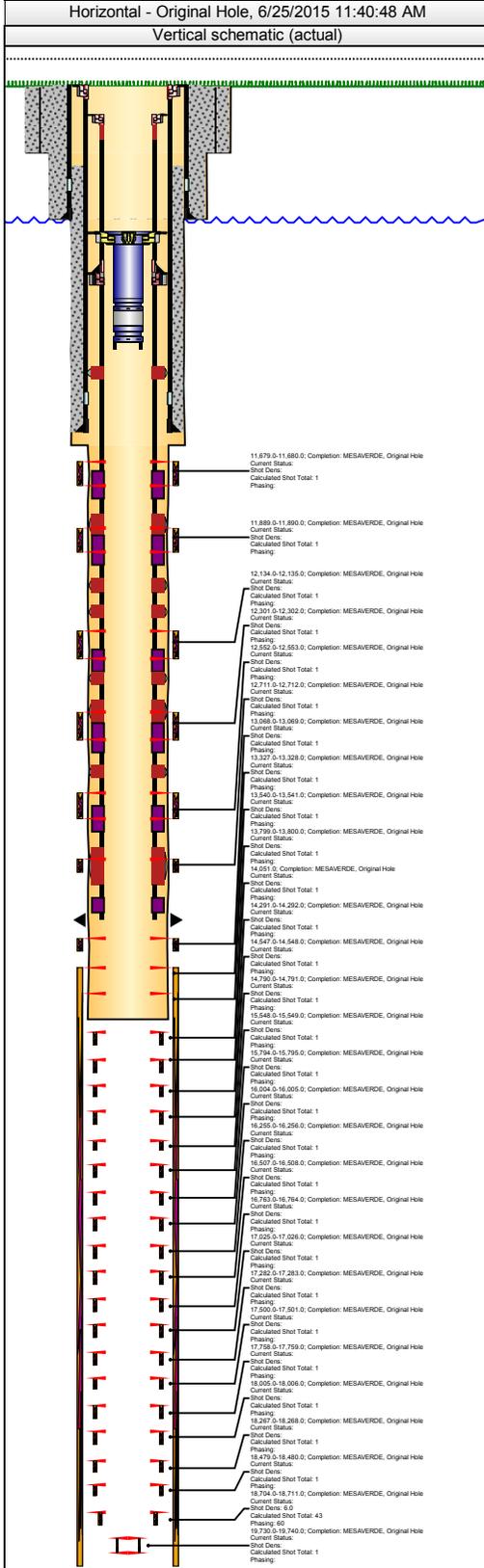
Date	Status	Com
12/24/2014	MESAVERDE, Original Hole	13,540.0 13,541.0
Perforation Company Conveyance Method Gun Size (in) Carrier Make		
Shot Density (shots/ft)		Charge Type Phasing (°)
Orientation		Orientation Method
Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB) FL MD After (ft, KB) P Surf Init (psi) P Final Surf (psi)
Reference Log		
Calculated Shot Total		
1		
Date	Status	Com
12/23/2014	MESAVERDE, Original Hole	13,799.0 13,800.0
Perforation Company Conveyance Method Gun Size (in) Carrier Make		
Shot Density (shots/ft)		Charge Type Phasing (°)
Orientation		Orientation Method
Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB) FL MD After (ft, KB) P Surf Init (psi) P Final Surf (psi)
Reference Log		
Calculated Shot Total		
1		
Date	Status	Com
12/23/2014	MESAVERDE, Original Hole	14,051.0 14,051.0
Perforation Company Conveyance Method Gun Size (in) Carrier Make		
Shot Density (shots/ft)		Charge Type Phasing (°)
Orientation		Orientation Method
Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB) FL MD After (ft, KB) P Surf Init (psi) P Final Surf (psi)
Reference Log		
Calculated Shot Total		
1		
Date	Status	Com
12/23/2014	MESAVERDE, Original Hole	14,291.0 14,292.0
Perforation Company Conveyance Method Gun Size (in) Carrier Make		
Shot Density (shots/ft)		Charge Type Phasing (°)
Orientation		Orientation Method
Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB) FL MD After (ft, KB) P Surf Init (psi) P Final Surf (psi)
Reference Log		
Calculated Shot Total		
1		



Perforations

Well Name: **RW 34-20BGR**

API 43-047-53299	Surface Legal Location S20-T7S-R23E	Field Name RED WASH	County UINTAH	State UTAH	Well Configuration Type Horizontal
Unique Well ID UT100240	Gr Elev (ft) 5,519.8	Current Elevation 5,549.80, SST 88 - KB 30	KB to CF (ft) 30.00	Spud Date 8/15/2014 07:00	Dry Hole TD Date 11/18/2014 07:00
Horizontal - Original Hole, 6/25/2015 11:40:48 AM			Vertical schematic (actual)		



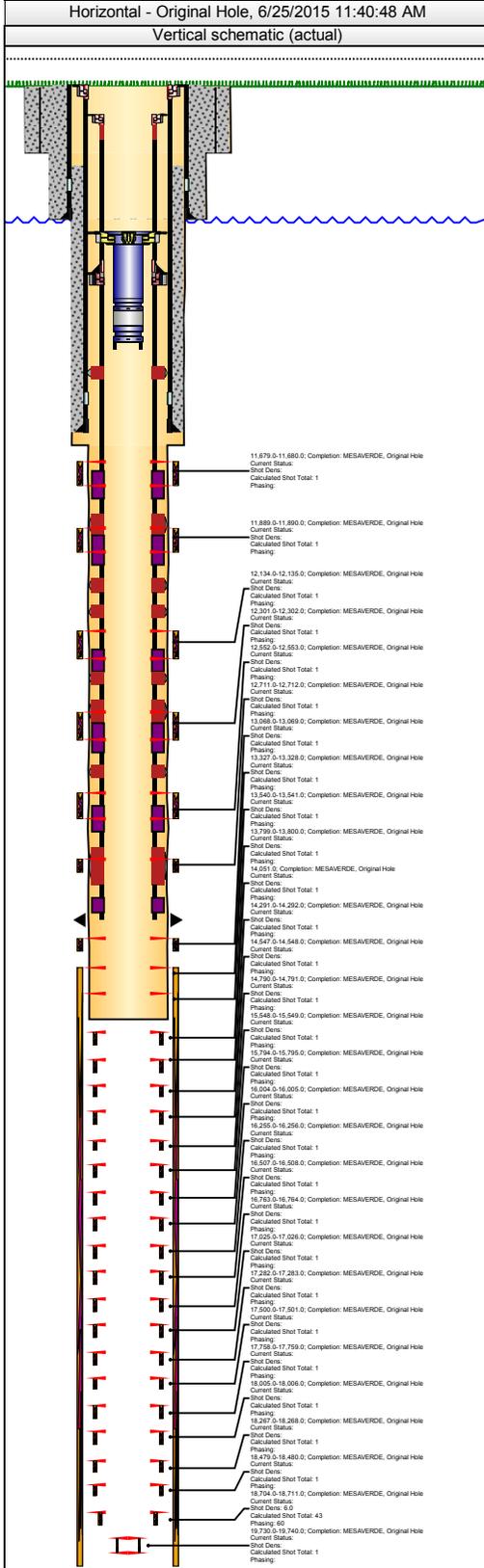
Perforation Statuses					
Date	Status	Com			
12/23/2014	Completion MESAVERDE, Original Hole	Top Depth (ft, KB) 16,004.0	Bottom Depth (ft, KB) 16,005.0		
Perforation Company		Conveyance Method	Gun Size (in)	Carrier Make	
Shot Density (shots/ft)		Charge Type	Phasing (°)		
Orientation			Orientation Method		
Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB)	FL MD After (ft, KB)	P Surf Init (psi)	P Final Surf (psi)
Reference Log					
Calculated Shot Total					
1					
Perforation Statuses					
Date	Status	Com			
12/23/2014	Completion MESAVERDE, Original Hole	Top Depth (ft, KB) 16,255.0	Bottom Depth (ft, KB) 16,256.0		
Perforation Company		Conveyance Method	Gun Size (in)	Carrier Make	
Shot Density (shots/ft)		Charge Type	Phasing (°)		
Orientation			Orientation Method		
Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB)	FL MD After (ft, KB)	P Surf Init (psi)	P Final Surf (psi)
Reference Log					
Calculated Shot Total					
1					
Perforation Statuses					
Date	Status	Com			
12/22/2014	Completion MESAVERDE, Original Hole	Top Depth (ft, KB) 16,507.0	Bottom Depth (ft, KB) 16,508.0		
Perforation Company		Conveyance Method	Gun Size (in)	Carrier Make	
Shot Density (shots/ft)		Charge Type	Phasing (°)		
Orientation			Orientation Method		
Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB)	FL MD After (ft, KB)	P Surf Init (psi)	P Final Surf (psi)
Reference Log					
Calculated Shot Total					
1					
Perforation Statuses					
Date	Status	Com			
12/22/2014	Completion MESAVERDE, Original Hole	Top Depth (ft, KB) 16,763.0	Bottom Depth (ft, KB) 16,764.0		
Perforation Company		Conveyance Method	Gun Size (in)	Carrier Make	
Shot Density (shots/ft)		Charge Type	Phasing (°)		
Orientation			Orientation Method		
Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB)	FL MD After (ft, KB)	P Surf Init (psi)	P Final Surf (psi)
Reference Log					
Calculated Shot Total					
1					



Perforations

Well Name: **RW 34-20BGR**

API 43-047-53299	Surface Legal Location S20-T7S-R23E	Field Name RED WASH	County UINTAH	State UTAH	Well Configuration Type Horizontal
Unique Well ID UT100240	Gr Elev (ft) 5,519.8	Current Elevation 5,549.80, SST 88 - KB 30	KB to CF (ft) 30.00	Spud Date 8/15/2014 07:00	Dry Hole TD Date 11/18/2014 07:00
Horizontal - Original Hole, 6/25/2015 11:40:48 AM			Vertical schematic (actual)		



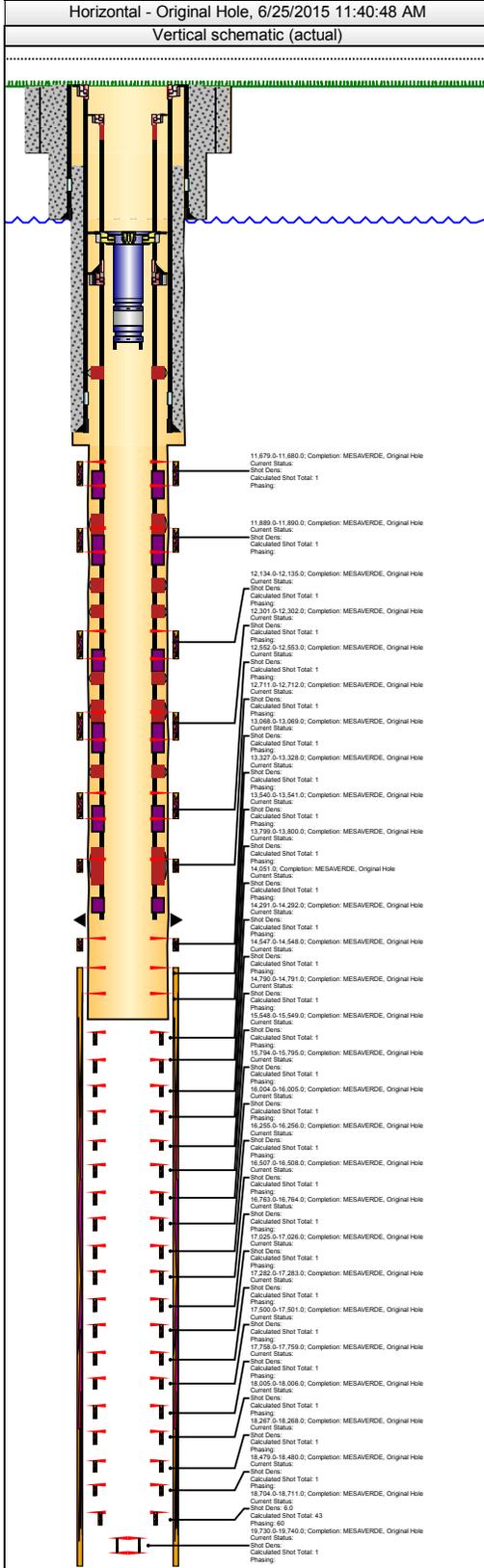
Perforation Statuses					
Date	Status	Com			
12/22/2014	MESAVERDE, Original Hole	Top Depth (ft, KB)	Bottom Depth (ft, KB)		
		17,025.0	17,026.0		
Perforation Company		Conveyance Method		Gun Size (in)	Carrier Make
Shot Density (shots/ft)		Charge Type		Phasing (°)	
Orientation			Orientation Method		
Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB)	FL MD After (ft, KB)	P Surf Init (psi)	P Final Surf (psi)
Reference Log					
Calculated Shot Total					
1					
Perforation Statuses					
Date	Status	Com			
12/22/2014	MESAVERDE, Original Hole	Top Depth (ft, KB)	Bottom Depth (ft, KB)		
		17,282.0	17,283.0		
Perforation Company		Conveyance Method		Gun Size (in)	Carrier Make
Shot Density (shots/ft)		Charge Type		Phasing (°)	
Orientation			Orientation Method		
Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB)	FL MD After (ft, KB)	P Surf Init (psi)	P Final Surf (psi)
Reference Log					
Calculated Shot Total					
1					
Perforation Statuses					
Date	Status	Com			
12/22/2014	MESAVERDE, Original Hole	Top Depth (ft, KB)	Bottom Depth (ft, KB)		
		17,500.0	17,501.0		
Perforation Company		Conveyance Method		Gun Size (in)	Carrier Make
Shot Density (shots/ft)		Charge Type		Phasing (°)	
Orientation			Orientation Method		
Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB)	FL MD After (ft, KB)	P Surf Init (psi)	P Final Surf (psi)
Reference Log					
Calculated Shot Total					
1					
Perforation Statuses					
Date	Status	Com			
12/22/2014	MESAVERDE, Original Hole	Top Depth (ft, KB)	Bottom Depth (ft, KB)		
		17,758.0	17,759.0		
Perforation Company		Conveyance Method		Gun Size (in)	Carrier Make
Shot Density (shots/ft)		Charge Type		Phasing (°)	
Orientation			Orientation Method		
Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB)	FL MD After (ft, KB)	P Surf Init (psi)	P Final Surf (psi)
Reference Log					
Calculated Shot Total					
1					



Perforations

Well Name: **RW 34-20BGR**

API 43-047-53299	Surface Legal Location S20-T7S-R23E	Field Name RED WASH	County UINTAH	State UTAH	Well Configuration Type Horizontal
Unique Well ID UT100240	Gr Elev (ft) 5,519.8	Current Elevation 5,549.80, SST 88 - KB 30	KB to CF (ft) 30.00	Spud Date 8/15/2014 07:00	Dry Hole TD Date 11/18/2014 07:00
Horizontal - Original Hole, 6/25/2015 11:40:48 AM			Perforation Statuses		
Vertical schematic (actual)			Date	Status	Com



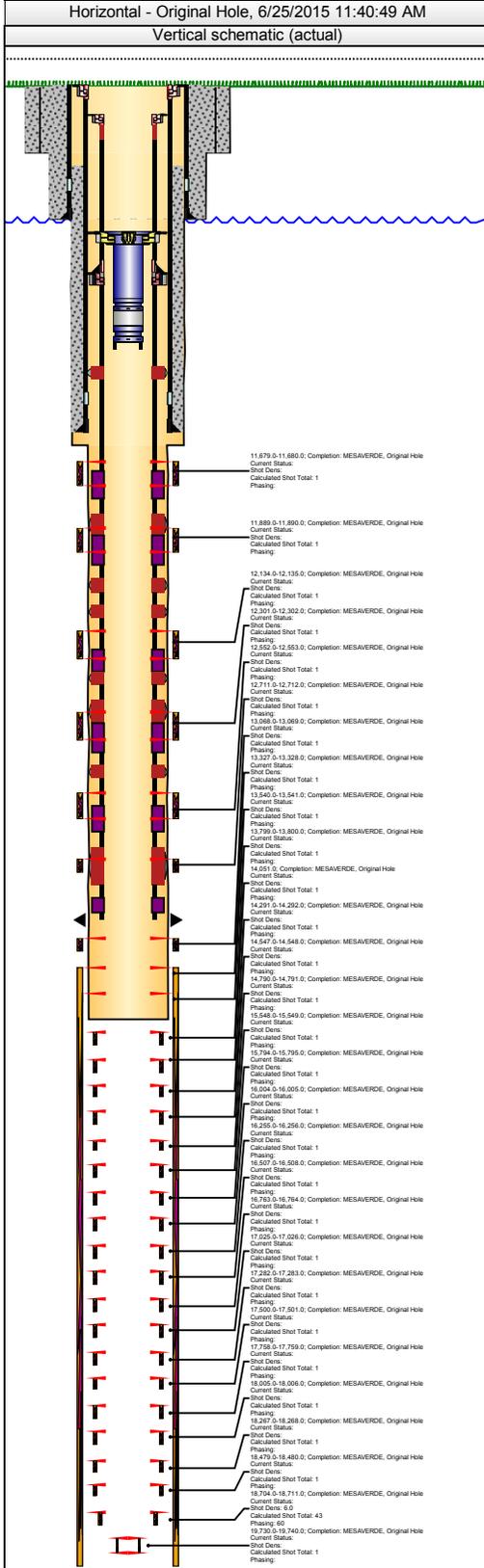
Date	Status	Com
12/22/2014	MESAVERDE, Original Hole	18,005.0
Perforation Company: Conveyance Method		
Gun Size (in): Carrier Make		
Shot Density (shots/ft): Charge Type: Phasing (°)		
Orientation: Orientation Method		
Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB) FL MD After (ft, KB) P Surf Init (psi) P Final Surf (psi)
Reference Log		
Calculated Shot Total: 1		
Date	Status	Com
12/22/2014	MESAVERDE, Original Hole	18,267.0
Perforation Company: Conveyance Method		
Gun Size (in): Carrier Make		
Shot Density (shots/ft): Charge Type: Phasing (°)		
Orientation: Orientation Method		
Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB) FL MD After (ft, KB) P Surf Init (psi) P Final Surf (psi)
Reference Log		
Calculated Shot Total: 1		
Date	Status	Com
12/22/2014	MESAVERDE, Original Hole	18,479.0
Perforation Company: Conveyance Method		
Gun Size (in): Carrier Make		
Shot Density (shots/ft): Charge Type: Phasing (°)		
Orientation: Orientation Method		
Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB) FL MD After (ft, KB) P Surf Init (psi) P Final Surf (psi)
Reference Log		
Calculated Shot Total: 1		
Date	Status	Com
12/19/2014	MESAVERDE, Original Hole	18,704.0
Perforation Company: Owen Oil Tools, Inc.		
Conveyance Method: Tubing		
Gun Size (in): Carrier Make		
Shot Density (shots/ft): Charge Type: Phasing (°)		
Orientation: Orientation Method		
Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB) FL MD After (ft, KB) P Surf Init (psi) P Final Surf (psi)
Reference Log		
Calculated Shot Total: 43		



Perforations

Well Name: **RW 34-20BGR**

API 43-047-53299	Surface Legal Location S20-T7S-R23E	Field Name RED WASH	County UINTAH	State UTAH	Well Configuration Type Horizontal
Unique Well ID UT100240	Gr Elev (ft) 5,519.8	Current Elevation 5,549.80, SST 88 - KB 30	KB to CF (ft) 30.00	Spud Date 8/15/2014 07:00	Dry Hole TD Date 11/18/2014 07:00
Horizontal - Original Hole, 6/25/2015 11:40:49 AM			Perforation Statuses		



Date	Status	Com
12/18/2014	MESAVERDE, Original Hole	19,730.0
Perforation Company		Conveyance Method
Shot Density (shots/ft)		Charge Type
Orientation		Orientation Method
Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB)
		FL MD After (ft, KB)
		P Surf Init (psi)
		P Final Surf (psi)
Reference Log		
Calculated Shot Total		

Date	Status	Com

11,879.0-11,880.0, Completion: MESAVERDE, Original Hole Current Status: Shot Dens: Calculated Shot Total: 1 Phasing:		
11,889.0-11,890.0, Completion: MESAVERDE, Original Hole Current Status: Shot Dens: Calculated Shot Total: 1 Phasing:		
12,134.0-12,135.0, Completion: MESAVERDE, Original Hole Current Status: Shot Dens: Calculated Shot Total: 1 Phasing:		
12,307.0-12,302.0, Completion: MESAVERDE, Original Hole Current Status: Shot Dens: Calculated Shot Total: 1 Phasing:		
12,550.0-12,553.0, Completion: MESAVERDE, Original Hole Current Status: Shot Dens: Calculated Shot Total: 1 Phasing:		
12,711.0-12,712.0, Completion: MESAVERDE, Original Hole Current Status: Shot Dens: Calculated Shot Total: 1 Phasing:		
13,068.0-13,069.0, Completion: MESAVERDE, Original Hole Current Status: Shot Dens: Calculated Shot Total: 1 Phasing:		
13,327.0-13,328.0, Completion: MESAVERDE, Original Hole Current Status: Shot Dens: Calculated Shot Total: 1 Phasing:		
13,540.0-13,541.0, Completion: MESAVERDE, Original Hole Current Status: Shot Dens: Calculated Shot Total: 1 Phasing:		
13,799.0-13,800.0, Completion: MESAVERDE, Original Hole Current Status: Shot Dens: Calculated Shot Total: 1 Phasing:		
14,201.0, Completion: MESAVERDE, Original Hole Current Status: Shot Dens: Calculated Shot Total: 1 Phasing:		
14,291.0-14,292.0, Completion: MESAVERDE, Original Hole Current Status: Shot Dens: Calculated Shot Total: 1 Phasing:		
14,547.0-14,548.0, Completion: MESAVERDE, Original Hole Current Status: Shot Dens: Calculated Shot Total: 1 Phasing:		
14,790.0-14,791.0, Completion: MESAVERDE, Original Hole Current Status: Shot Dens: Calculated Shot Total: 1 Phasing:		
15,546.0-15,549.0, Completion: MESAVERDE, Original Hole Current Status: Shot Dens: Calculated Shot Total: 1 Phasing:		
15,784.0-15,795.0, Completion: MESAVERDE, Original Hole Current Status: Shot Dens: Calculated Shot Total: 1 Phasing:		
16,004.0-16,005.0, Completion: MESAVERDE, Original Hole Current Status: Shot Dens: Calculated Shot Total: 1 Phasing:		
16,255.0-16,256.0, Completion: MESAVERDE, Original Hole Current Status: Shot Dens: Calculated Shot Total: 1 Phasing:		
16,507.0-16,508.0, Completion: MESAVERDE, Original Hole Current Status: Shot Dens: Calculated Shot Total: 1 Phasing:		
16,760.0-16,764.0, Completion: MESAVERDE, Original Hole Current Status: Shot Dens: Calculated Shot Total: 1 Phasing:		
17,220.0-17,228.0, Completion: MESAVERDE, Original Hole Current Status: Shot Dens: Calculated Shot Total: 1 Phasing:		
17,282.0-17,283.0, Completion: MESAVERDE, Original Hole Current Status: Shot Dens: Calculated Shot Total: 1 Phasing:		
17,500.0-17,501.0, Completion: MESAVERDE, Original Hole Current Status: Shot Dens: Calculated Shot Total: 1 Phasing:		
17,758.0-17,759.0, Completion: MESAVERDE, Original Hole Current Status: Shot Dens: Calculated Shot Total: 1 Phasing:		
18,006.0-18,006.0, Completion: MESAVERDE, Original Hole Current Status: Shot Dens: Calculated Shot Total: 1 Phasing:		
18,297.0-18,288.0, Completion: MESAVERDE, Original Hole Current Status: Shot Dens: Calculated Shot Total: 1 Phasing:		
18,479.0-18,480.0, Completion: MESAVERDE, Original Hole Current Status: Shot Dens: Calculated Shot Total: 1 Phasing:		
18,704.0-18,711.0, Completion: MESAVERDE, Original Hole Current Status: Shot Dens: Calculated Shot Total: 43 Phasing: 00		
19,730.0-19,740.0, Completion: MESAVERDE, Original Hole Current Status: Shot Dens: Calculated Shot Total: 1 Phasing:		

RW 34-20BGR

AFE - DRL-AL (artificial lift), <dtmstart>						
Well Name RW 34-20BGR		Primary Job Type AFE - DRL-AL (artificial lift)		Secondary Job Type		Objective
				Start Date		Job End Date
RPT #	End Date	Cum Time Log (days)	Current Ops	Summary	Time Log Hrs (hr)	syscreateuser
AFE - DRL-CT (completion), 12/5/2014 06:00						
Well Name RW 34-20BGR		Primary Job Type AFE - DRL-CT (completion)		Secondary Job Type		Objective
				Start Date 12/5/2014		Job End Date 5/1/2015
RPT #	End Date	Cum Time Log (days)	Current Ops	Summary	Time Log Hrs (hr)	syscreateuser
1	12/6/2014 06:00	1.00	Well shut in.	MI (11) CHI 1,000 bbl frac tanks and (2) 400 bbl upright tanks. Waiting on completion. (Est. frac date 12-10-14).	24.00	seiffert.contractor
2	12/7/2014 06:00	2.00	Well shut in.	NU Cameron 4 1/16" 15K frac stack. Pressure test frac stack to 14,500 psi. Good Test. Bleed to zero and SIW. Waiting on completion. (Est. frac date 12-10-14).	24.00	seiffert.contractor
3	12/8/2014 06:00	3.00	Well shut in.	Start laying Rockwater water transfer line. Waiting on completion. (Est. frac date 12-10-14).	24.00	seiffert.contractor
4	12/9/2014 06:00	4.00	Well shut in.	Continue laying Rockwater water transfer line. RU Weatherford 10K flowback manifold. Spot (4) HES Mtn movers and start pre-fill. Fill (2) 400 bbl upright tanks with brine water. Waiting on completion. (Re-scheduled for 12-12-14).	24.00	seiffert.contractor
5	12/10/2014 06:00	5.00	Well shut in.	Finish laying Rockwater water transfer line. Finish pre-fill HES Mtn movers. Waiting on completion. (Re-scheduled for 12-12-14).	24.00	seiffert.contractor
6	12/11/2014 06:00	6.00	Well shut in.	Fill (11) 1,000 bbl CHI frac tanks with fresh water. Start MIRU HES frac equipment. (2nd HES crew will finish up late tonight or early morning on the well they are on). Waiting on completion. (Scheduled for 12-12-14).	24.00	seiffert.contractor
7	12/12/2014 06:00	7.00	Well shut in.	MIRU D & M Hot oiler and pre-heat (5) 1,000 bbl CHI frac tanks to 100*. At report time MIRU HES frac equipment and Oil States ball drop system (still waiting on 2nd HES crew fracing for Newfield). Waiting on completion. (Scheduled for 12-12-14).	24.00	seiffert.contractor
8	12/13/2014 06:00	8.00	Well shut in.	Wait on HES frac crew (12 hrs). At report time finish MIRU HES frac equipment and Oil States ball drop system. Waiting on completion. (Scheduled for 12-12-14).	24.00	seiffert.contractor
9	12/14/2014 06:00	8.77	Open well and start 24 hr completion.	Verify and load Oil States ball drop system with HES "dissolvable balls". Prime up and test HES main line to 13,400 psi and backside line to 6,000 psi. Good tests. Load csg and frac stage #1 thru float shoe. Cut sand in 100 mesh sand stage due to pressure increase (pumped 30,000 lbs of 100,000 lbs). Flush well bore with 285 bbls slickwater and pressured out 5 bbls over flush volume. Attempted to surge and pump into formation numerous times without success. Displace frac stack and HES pumps with brine water and SIW. Fan frac pumps and drain flow back equipment. Prep to RDMO HES frac equipment and MIRU WOR this morning. (Plan to RIH with TCP guns and perf next stage.)	18.50	seiffert.contractor
10	12/15/2014 06:00	9.77	Well shut in.	RDMO Oil States ball dropper and HES frac equipment. Move in Key Energy WOR (24 hr crew). Prep to RIH with TCP guns in morning. Waiting on Cutters Wireline TCP guns and Weatherford 1" CS Hydril tbg.	24.00	seiffert.contractor

RW 34-20BGR

RPT #	End Date	Cum Time Log (days)	Current Ops	Summary	Time Log Hrs (hr)	syscreateuser
11	12/16/2014 06:00	9.77	Well shut in.	RU Key Energy WOR #8063 (24 hr crew). ND Cameron 4 1/16" 15K frac stack. NU BOP as follows: 4 1/16 x 15M XO spool, 7 1/16 double gate BOP with blind rams on bottom, 7 1/16 spool, 7 1/16 annular. Tested pipe rams to 4,500 psi and Annular to 3,500 psi. Good tests. SIW. Spot auxiliary equipment. Off load 1 1/4" work string tbg. Spot 2 3/8" 8rd tbg and 2 3/8" Hydril tbg on location. SDFN. Weatherford 1" tbg scheduled to be on location early this morning. Prep to start RIH with TCP guns and tbg later this morning.		seiffert.contractor
12	12/17/2014 06:00	10.77	Open well up and RIH with TCP gun and tbg.	SICP- 60 psi. Bleed pressure to zero. Off load Weatherford 1" T-95 tbg. Tally, MU and RIH with TCP guns and tbg as follows: Cutters Wireline 1- (7') 1-11/16" TCP gun (OD-1.69") and 6spf (total of 36 shots). 1- (1') BPV Dual flapper (OD-1.7"), 1- (0.57") XO sub (OD-1.75"), 49- jts 1" 2.25 lb/ft T-95 tbg with 1" WTS-8 connection (1.60" OD), XO sub, 128- jts 1 1/4" 3.56 lb/ft N-80 tbg with 1 1/4" MT connection (1.75" OD). Pumping FR water down tbg every 25 jts of tbg. While flushing tbg with EOT depth of 3,090' tbg became plugged. POOH with 1 1/4" and 1" tbg, found restriction in tbg (rust was found). RU Weatherford tbg cleaners. RBIH with same BHA and tbg design, cleaning and flushing tbg every 10 jts. At report time, RIH with 1 1/4" tbg and EOT depth of 5,578'.	24.00	seiffert.contractor
13	12/18/2014 06:00	11.77	continue RIH with TCP gun and tbg.	MI Curt's Tool Inspection and clean all 2 3/8" tbg. Continue to RIH with TCP guns and tapered tbg string as follows: Cutters Wireline 1- (7') 1-11/16" TCP gun (OD-1.69") and 6spf (total of 36 shots). 1- (1') BPV Dual flapper (OD-1.7"), 1- (0.57") XO sub (OD-1.75"), 49- jts 1" 2.25 lb/ft T-95 tbg with 1" WTS-8 connection (1.60" OD), 1- (0.57") XO sub (OD-1.75"), 158- jts 1 1/4" 3.56 lb/ft N-80 tbg with 1 1/4" MT connection (1.75" OD), 1- (0.83") XO sub (OD-2.7"), 96- jts of 2 3/8" L-80 Hydril 533 (4.7#/ft) with Max upset 2.72". Pumping FR water down tbg every 35 jts of tbg. RIH with 2 3/8" tbg with stacking out @ 15,202'. Pump fluid at 1.5 bpm and slowly reciprocate pipe several times without making any progress. RU power swivel at report time.	24.00	seiffert.contractor
14	12/19/2014 06:00	12.02	continue RIH with TCP gun and tbg.	Finish RU power swivel. Continue to RIH with TCP guns and tapered tbg string as follows: Cutters Wireline 1- (7') 1-11/16" TCP gun (OD-1.69") and 6spf (total of 36 shots). 1- (1') BPV Dual flapper (OD-1.7"), 1- (0.57") XO sub (OD-1.75"), 49- jts 1" 2.25 lb/ft T-95 tbg with 1" WTS-8 connection (1.60" OD), 1- (0.57") XO sub (OD-1.75"), 158- jts 1 1/4" 3.56 lb/ft N-80 tbg with 1 1/4" MT connection (1.75" OD), 1- (0.83") XO sub (OD-2.7"), 260- jts of 2 3/8" L-80 Hydril 533 (4.7#/ft) with Max upset 2.72", 1- 2 3/8" Hydril Pin by 2 3/8" EUE box (3.06" OD), 139- jts of 2 3/8" P-110 4.7 lb/ft EUE tbg to EOT depth of 18,704'. Flush tbg string with 15 bbls fresh water and drop 7/16" ball. Pump 140 bbls water (55 bbls tbg volume) with rig pump and did not see any indication of ball seating or guns firing. MIRU HES pump truck to tbg. Pump 60 bbls down tbg to seat ball and fire guns (didn't see any indication of ball seat or guns firing). Shut in backside and pump 17 bbls, pressuring out at 8,500 psi. Flow gas and fluid pressure off well. RU and start pulling tbg. POOH standing back 139- jts 2 3/8" P-110 tbg and 61- jts L-80 Hydril tbg and gas starting flowing up tubing. Flow gas bubble to pit and pump 50 bbls down tbg to kill well. At report time continue to POOH with EOT depth of 12,408'	6.00	seiffert.contractor

RW 34-20BGR

RPT #	End Date	Cum Time Log (days)	Current Ops	Summary	Time Log Hrs (hr)	syscreateuser
15	12/20/2014 06:00	13.02	POOH with tbg and TCP guns.	Continue to POOH standing back 158- jts 1 1/4" N-80 tbg, 19- jts 1" T-95 tbg (pumped 50 bbls down csg twice to kill well). Took a gas kick with 31 jts 1" T-95 tbg in hole. Tried killing well with 200 bbls 10# brine and well flowed it back. Open well to pit on 36/64" choke with 1,200 psi. Blew down to 600 psi and pumped 90 bbls 10# brine water down csg. Pressure went to zero. Finished POOH with 1" T-95 tb and Cutters Wireline 1 11/16" TCP guns (all guns fired). Key repaired rig pump plumbing and valves. SCIP =1,500 psi. Open well up to pit and flowed on 36/64" choke @ 1,200 psi. Flowed well for 3 1/2 hrs. Attempted to kill well with 10# brine down csg. Pumped and flowed back with 100, 25, 15, 10 and 20 bbls. Pressures got down as low as 100 to 150 psi on a 36/64" choke. Waiting on 11.2 lb/gal heavy water to kill well. Laid down 49- jts 1" 2.25 lb/ft T-95 tbg and 4- jts 1 1/4" 3.56 lb/ft N-80 tbg. At report time, flowing well to pit at 175 psi and waiting on 11.2# fluid.	24.00	seiffert.contractor
16	12/21/2014 06:00	14.02	Continue to lay down tbg.	FCP- 175 psi on 36/64" choke. SIW. Pump 150 bbls 10# brine down csg to kill well (pressure went to zero). RBIH and POOH laying down 158- jts 1 1/4" N-80 tbg. Load out 55- jts 1" T-95 tbg and 158- jts 1 1/4" N-80 tbg to Weatherford's yard. MI D&M Hot Oiler and heat (4) 1,000 bbl frac tanks to 100*. RBIH and POOH laying down 260- jts 2 3/8" L-80 Hydril 533 and 139- jts 2 3/8" P-110 EUE tbg (had to kill well (2) times while POOH with tbg pumping a total of 75 bbls 10# brine water down csg). Completed pulling tbg and BHA. At report time, RDMO Key Energy WOR and auxiliary equipment.	24.00	seiffert.contractor
17	12/22/2014 06:00	15.02	RDMO Key Energy WOR and auxiliary equipment.	Finish RDMO Key Energy WOR and auxiliary equipment. ND Insite Oil tools 5K BOP and NU Cameron 4 1/16" 15K frac stack. Test frac stack to 14,000 psi. Good test. MIRU HES frac equipment and Oil States ball drop system. Verify and load Oil States ball drop system with HES "dissolvable balls". Prime up and test HES main line to 13,400 psi and backside line to 6,000 psi. Good tests. Load csg and frac stage #5 (perfs at 18,704-11').	24.00	seiffert.contractor
18	12/23/2014 06:00	16.02	Continue 24 hr completion.	Re-torque frac tree and pressure test to 13,500 psi. Good test. Resume stage #5 frac (did not pump sand stages). Drop dissolvable balls and frac stages #6 thru #16. At report time, SD waiting on sand.	24.00	seiffert.contractor
19	12/24/2014 06:00	17.02	Continue with 24 hr completion.	HES perform pump maintenance while waiting on sand. Unload sand trucks, prime up and pressure test HES main treating lines to 13,400 psi. Good test. Frac stage #17. Drop dissolvable balls and frac stages #18 and #19. Drop ball for stage #20 but did not see ball hit (over flush 200 bbls). SD and shut in well. RD (1) HES pump truck and MI Oil States crane. RD Oil States ball drop unit and inspect remaining balls. Missing (1) ball in ball drop system. Caliper remaining balls in launcher and it was determined that frac ball #21(2.687") dropped with frac ball #19 (2.624"), thus fracing stage #21 and skipping/stages #19 and #20 fracs. RD and remove Oil States ball drop system. Drop HES dissolvable ball for stage #22 (2.751") thru wellhead and frac stage #22. Drop dissolvable balls and frac stages #23 thru #27. Stage #27 screened out with 2 ppa on formation. At report time flowing back to clean up wellbore. (Remaining stages will have all dissolvable frac balls dropped manually from the top of the wellhead to ensure the proper ball is dropped for each stage.)	24.00	seiffert.contractor

RW 34-20BGR

RPT #	End Date	Cum Time Log (days)	Current Ops	Summary	Time Log Hrs (hr)	syscreateuser
20	12/25/2014 06:00	18.02	Continue with 24 hr completion.	Continue flowing back wellbore recovering 160 bbls sand/fluid. Load csg and flush wellbore with 220 bbls slickwater. Drop dissolvable balls and frac stages #28 thru #34. SIW. RDMO Spectrum Tracer Services, HES frac equipment and Nasco flow back. SDFN. Prep to RU production flow back equipment this morning.	24.00	seiffert.contractor
21	12/26/2014 06:00	18.02	RU flow back equipment.	RU production flow back equipment. Turn well over to production group.		seiffert.contractor
22	12/27/2014 06:00	18.02	Flow back well	Flow back well at 250bbls water per hour, hook up Weatherford flow back equipment and ball catch. Pipe inspection, trucking, repairs, and valve replacement are included in tickets.		05127

AFE - DRL-TU (tube up), 1/5/2015 06:00

Well Name RW 34-20BGR	Primary Job Type AFE - DRL-TU (tube up)	Secondary Job Type	Objective	Start Date 1/5/2015	Job End Date 1/8/2015
--------------------------	--	--------------------	-----------	------------------------	--------------------------

RPT #	End Date	Cum Time Log (days)	Current Ops	Summary	Time Log Hrs (hr)	syscreateuser
1	1/6/2015 06:00	0.58	MIRU	01/05/2015: MIRU, ND frac tree, leaving bottom valve. NU bop's Test pipe rams and blind rams to 4500# psi. Good test and charted. RU snubbing unit. Snub in the hole w/ W.L. guide collar, pump out plug, 2' pup jt, 1.81 F nipple, & 120 jts of 2 3/8 L-80 tbg. MU TIW valve. Land well on pipe rams, w/ EOT @ 3947'. RD snubbing unit. NU annular bag. SWIFN. Turn well over to production. Casing is up sales line.	14.00	tempmclure
2	1/7/2015 06:00	1.13	RU floor and tbg equipment.	01/06/2015: . RU floor and tbg equipment. Continue to Talley, rabbit, RIH w/ tbg. MU tbg hanger. Land well w/ EOT @ 11,356'. RD floor, ND bops stack and frac. Valve. NU well head. Test to well head to 10000# psi. Good test. RU hot oil truck to tbg , Pump 53 bbls of production water w/ No pressure increase. 10bbls pass volume. Shut tbg in. casing is up sales line. SDFN	13.00	tempmclure
3	1/8/2015 06:00	1.27	RU flow line.	01/07/2015: RU flow line, RDMO. Turn well over to production.	3.50	tempmclure
4	5/1/2015 06:00	1.27		CONTRACT WORK		50170



Directional Survey

Well Name: RW 34-20BGR

API 43-047-53299		Surface Legal Location S20-T7S-R23E		Field Name RED WASH		County UINTAH		State UTAH		Well Configuration Type Horizontal	
Unique Well ID UT100240		Ground Elevation (ft) 5,519.8		Casing Flange Elevation (ft) 5,519.80		Current KB to GL (ft) 30.00		KB to CF (ft) 30.00		Spud Date 8/15/2014 07:00	
Dry Hole TD Date 11/18/2014 07:00		Wellbore Name Sidetrack 1		Parent Wellbore Original Hole		Sidetrack Start Depth (ft, KB) 12,860.0		Vertical Section Direction (°) 195.00			
Date 10/17/2014		Definitive? No		Description SIDETRACK 1		Proposed? No					
MD Tie In (ft, KB) 12,860.00		TVDTie In (ft, KB) 11,219.25		Inclination Tie In (°) 89.00		Azimuth Tie In (°) 196.50		NSTie In (ft) -1,879.72		EWTie In (ft) -522.68	

Survey Data

MD (ft, KB)	Incl (°)	Azm (°)	Tool Type	Date	Survey Company	TVD (ft, KB)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Build (°/100ft)	Turn (°/100ft)	Traverse Distance (ft)
12,860.00	89.00	196.50	MWD	10/17/2...	Native...	11,219.25	-1,879.72	-522.68	1,950.95	0.00	0.00	0.00	0.00
12,881.00	91.30	198.60	MWD	10/17/2...	Native...	11,219.20	-1,899.74	-529.01	1,971.93	14.83	10.95	10.00	21.00
12,890.00	91.70	199.80	MWD	10/18/2...	Native...	11,218.96	-1,908.24	-531.97	1,980.90	14.05	4.44	13.33	29.99
12,921.00	92.50	201.80	MWD	10/18/2...	Native...	11,217.82	-1,937.19	-542.97	2,011.72	6.94	2.58	6.45	60.97
12,952.00	93.00	202.10	MWD	10/18/2...	Native...	11,216.34	-1,965.91	-554.54	2,042.45	1.88	1.61	0.97	91.94
12,984.00	93.20	201.90	MWD	10/18/2...	Native...	11,214.61	-1,995.54	-566.51	2,074.17	0.88	0.63	-0.62	123.89
13,015.00	92.40	202.50	MWD	10/18/2...	Native...	11,213.09	-2,024.21	-578.21	2,104.89	3.22	-2.58	1.94	154.85
13,047.00	91.70	202.80	MWD	10/18/2...	Native...	11,211.95	-2,053.72	-590.53	2,136.58	2.38	-2.19	0.94	186.83
13,078.00	91.40	202.70	MWD	10/18/2...	Native...	11,211.11	-2,082.30	-602.51	2,167.29	1.02	-0.97	-0.32	217.82
13,110.00	91.50	202.80	MWD	10/19/2...	Native...	11,210.30	-2,111.80	-614.88	2,198.99	0.44	0.31	0.31	249.81
13,144.00	91.70	202.70	MWD	10/19/2...	Native...	11,209.35	-2,143.14	-628.03	2,232.66	0.66	0.59	-0.29	283.80
13,173.00	92.20	202.80	MWD	10/19/2...	Native...	11,208.36	-2,169.87	-639.23	2,261.38	1.76	1.72	0.34	312.78
13,204.00	91.70	202.40	MWD	10/19/2...	Native...	11,207.31	-2,198.47	-651.14	2,292.09	2.07	-1.61	-1.29	343.76
13,236.00	91.60	202.50	MWD	10/19/2...	Native...	11,206.39	-2,228.04	-663.36	2,323.81	0.44	-0.31	0.31	375.75
13,267.00	92.30	202.80	MWD	10/19/2...	Native...	11,205.33	-2,256.63	-675.29	2,354.51	2.46	2.26	0.97	406.73
13,299.00	91.50	201.80	MWD	10/19/2...	Native...	11,204.27	-2,286.22	-687.42	2,386.24	4.00	-2.50	-3.13	438.71
13,330.00	89.40	200.40	MWD	10/19/2...	Native...	11,204.03	-2,315.14	-698.58	2,417.06	8.14	-6.77	-4.52	469.71
13,362.00	90.00	198.50	MWD	10/19/2...	Native...	11,204.19	-2,345.31	-709.24	2,448.96	6.23	1.87	-5.94	501.71
13,393.00	89.50	196.70	MWD	10/19/2...	Native...	11,204.33	-2,374.86	-718.61	2,479.92	6.03	-1.61	-5.81	532.70
13,425.00	90.80	197.30	MWD	10/19/2...	Native...	11,204.25	-2,405.46	-727.96	2,511.90	4.47	4.06	1.88	564.70
13,456.00	92.70	198.10	MWD	10/20/2...	Native...	11,203.30	-2,434.97	-737.38	2,542.85	6.65	6.13	2.58	595.69
13,488.00	94.50	198.10	MWD	10/20/2...	Native...	11,201.29	-2,465.33	-747.31	2,574.74	5.62	5.62	0.00	627.62
13,519.00	94.20	198.40	MWD	10/20/2...	Native...	11,198.94	-2,494.68	-756.99	2,605.60	1.37	-0.97	0.97	658.53
13,551.00	92.60	198.40	MWD	10/20/2...	Native...	11,197.04	-2,524.99	-767.07	2,637.49	5.00	-5.00	0.00	690.48
13,582.00	93.00	198.70	MWD	10/20/2...	Native...	11,195.53	-2,554.35	-776.92	2,668.39	1.61	1.29	0.97	721.44
13,613.00	91.20	198.30	MWD	10/20/2...	Native...	11,194.39	-2,583.73	-786.75	2,699.31	5.95	-5.81	-1.29	752.42
13,645.00	92.90	199.10	MWD	10/20/2...	Native...	11,193.25	-2,614.02	-797.00	2,731.22	5.87	5.31	2.50	784.39
13,677.00	91.00	200.50	MWD	10/20/2...	Native...	11,192.16	-2,644.10	-807.83	2,763.09	7.37	-5.94	4.38	816.37
13,708.00	89.90	201.50	MWD	10/20/2...	Native...	11,191.91	-2,673.04	-818.94	2,793.92	4.80	-3.55	3.23	847.37
13,739.00	89.10	201.40	MWD	10/20/2...	Native...	11,192.18	-2,701.89	-830.28	2,824.72	2.60	-2.58	-0.32	878.37
13,771.00	86.20	199.20	MWD	10/20/2...	Native...	11,193.50	-2,731.88	-841.37	2,856.55	11.37	-9.06	-6.88	910.34
13,802.00	87.80	199.70	MWD	10/21/2...	Native...	11,195.12	-2,761.07	-851.68	2,887.42	5.41	5.16	1.61	941.29
13,833.00	88.90	200.10	MWD	10/21/2...	Native...	11,196.01	-2,790.20	-862.22	2,918.29	3.78	3.55	1.29	972.28
13,865.00	89.60	202.40	MWD	10/21/2...	Native...	11,196.43	-2,820.02	-873.82	2,950.09	7.51	2.19	7.19	1,004.28
13,896.00	89.10	200.90	MWD	10/21/2...	Native...	11,196.78	-2,848.83	-885.26	2,980.88	5.10	-1.61	-4.84	1,035.27
13,928.00	89.10	201.10	MWD	10/21/2...	Native...	11,197.28	-2,878.70	-896.72	3,012.70	0.62	0.00	0.62	1,067.27
13,959.00	89.10	201.30	MWD	10/21/2...	Native...	11,197.77	-2,907.60	-907.93	3,043.52	0.65	0.00	0.65	1,098.27
13,991.00	88.40	199.40	MWD	10/21/2...	Native...	11,198.47	-2,937.60	-919.06	3,075.37	6.33	-2.19	-5.94	1,130.26
14,022.00	88.20	198.10	MWD	10/21/2...	Native...	11,199.39	-2,966.94	-929.02	3,106.29	4.24	-0.65	-4.19	1,161.24
14,054.00	88.90	198.50	MWD	10/21/2...	Native...	11,200.20	-2,997.31	-939.06	3,138.23	2.52	2.19	1.25	1,193.23
14,085.00	89.20	198.90	MWD	10/21/2...	Native...	11,200.71	-3,026.67	-949.00	3,169.16	1.61	0.97	1.29	1,224.23
14,116.00	90.30	200.20	MWD	10/21/2...	Native...	11,200.85	-3,055.88	-959.37	3,200.06	5.49	3.55	4.19	1,255.23
14,148.00	91.00	200.80	MWD	10/21/2...	Native...	11,200.48	-3,085.85	-970.58	3,231.91	2.88	2.19	1.88	1,287.22
14,202.00	92.80	203.70	MWD	10/23/2...	Native...	11,198.69	-3,135.80	-991.01	3,285.44	6.32	3.33	5.37	1,341.19
14,233.00	93.10	204.20	MWD	10/23/2...	Native...	11,197.10	-3,164.09	-1,003.58	3,316.02	1.88	0.97	1.61	1,372.14
14,265.00	92.90	205.50	MWD	10/23/2...	Native...	11,195.42	-3,193.09	-1,017.01	3,347.50	4.10	-0.62	4.06	1,404.10
14,296.00	92.80	206.50	MWD	10/23/2...	Native...	11,193.88	-3,220.91	-1,030.58	3,377.90	3.24	-0.32	3.23	1,435.06



Directional Survey

Well Name: RW 34-20BGR

API 43-047-53299		Surface Legal Location S20-T7S-R23E			Field Name RED WASH		County UINTAH		State UTAH		Well Configuration Type Horizontal	
Unique Well ID UT100240		Ground Elevation (ft) 5,519.8		Casing Flange Elevation (ft) 5,519.80		Current KB to GL (ft) 30.00		KB to CF (ft) 30.00		Spud Date 8/15/2014 07:00		Dry Hole TD Date 11/18/2014 07:00

Survey Data													
MD (ft, KB)	Incl (°)	Azm (°)	Tool Type	Date	Survey Company	TVD (ft, KB)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Build (°/100ft)	Turn (°/100ft)	Traverse Distance (ft)
14,328.00	92.00	210.00	MWD	10/23/2...	Native...	11,192.54	-3,249.07	-1,045.71	3,409.01	11.21	-2.50	10.94	1,467.03
14,359.00	91.40	212.30	MWD	10/23/2...	Native...	11,191.62	-3,275.59	-1,061.74	3,438.77	7.66	-1.94	7.42	1,498.01
14,390.00	90.60	214.40	MWD	10/23/2...	Native...	11,191.08	-3,301.48	-1,078.78	3,468.19	7.25	-2.58	6.77	1,529.00
14,428.00	90.40	213.80	MWD	10/25/2...	Native...	11,190.75	-3,332.94	-1,100.08	3,504.10	1.66	-0.53	-1.58	1,567.00
14,459.00	88.90	211.16	MWD	10/25/2...	Native...	11,190.94	-3,359.09	-1,116.72	3,533.66	9.79	-4.84	-8.52	1,598.00
14,491.00	89.10	210.60	MWD	10/25/2...	Native...	11,191.50	-3,386.55	-1,133.15	3,564.44	1.86	0.62	-1.75	1,629.99
14,522.00	90.20	211.17	MWD	10/25/2...	Native...	11,191.69	-3,413.15	-1,149.06	3,594.25	4.00	3.55	1.84	1,660.99
14,554.00	90.40	212.10	MWD	10/25/2...	Native...	11,191.52	-3,440.40	-1,165.84	3,624.91	2.97	0.63	2.91	1,692.99
14,585.00	90.50	212.30	MWD	10/26/2...	Native...	11,191.28	-3,466.63	-1,182.36	3,654.52	0.72	0.32	0.65	1,723.99
14,617.00	90.20	212.30	MWD	10/26/2...	Native...	11,191.08	-3,493.68	-1,199.46	3,685.08	0.94	-0.94	0.00	1,755.99
14,684.00	90.20	212.10	MWD	10/26/2...	Native...	11,190.85	-3,550.37	-1,235.16	3,749.08	0.30	0.00	-0.30	1,822.99
14,708.00	90.80	213.20	MWD	10/27/2...	Native...	11,190.64	-3,570.58	-1,248.11	3,771.95	5.22	2.50	4.58	1,846.99
14,771.00	90.10	212.70	MWD	10/28/2...	Native...	11,190.14	-3,623.44	-1,282.37	3,831.88	1.37	-1.11	-0.79	1,909.99
14,802.00	89.10	208.30	MWD	10/28/2...	Native...	11,190.36	-3,650.14	-1,298.10	3,861.74	14.55	-3.23	-14.19	1,940.98
14,834.00	87.30	205.90	MWD	10/28/2...	Native...	11,191.36	-3,678.61	-1,312.67	3,893.01	9.37	-5.62	-7.50	1,972.96
14,866.00	86.00	204.90	MWD	10/28/2...	Native...	11,193.23	-3,707.47	-1,326.37	3,924.43	5.12	-4.06	-3.13	2,004.90
14,897.00	85.90	203.00	MWD	10/28/2...	Native...	11,195.42	-3,735.73	-1,338.93	3,954.98	6.12	-0.32	-6.13	2,035.82
14,929.00	87.20	201.20	MWD	10/28/2...	Native...	11,197.35	-3,765.32	-1,350.94	3,986.67	6.93	4.06	-5.63	2,067.76
14,960.00	89.10	198.60	MWD	10/28/2...	Native...	11,198.35	-3,794.45	-1,361.49	4,017.54	10.38	6.13	-8.39	2,098.74
14,991.00	90.10	197.60	MWD	10/28/2...	Native...	11,198.57	-3,823.92	-1,371.12	4,048.49	4.56	3.23	-3.23	2,129.74
15,023.00	90.50	198.50	MWD	10/28/2...	Native...	11,198.40	-3,854.34	-1,381.03	4,080.45	3.08	1.25	2.81	2,161.74
15,054.00	90.90	199.30	MWD	10/28/2...	Native...	11,198.02	-3,883.67	-1,391.07	4,111.37	2.89	1.29	2.58	2,192.74
15,086.00	90.80	199.10	MWD	10/29/2...	Native...	11,197.55	-3,913.88	-1,401.60	4,143.28	0.70	-0.31	-0.63	2,224.73
15,117.00	90.80	196.70	MWD	10/29/2...	Native...	11,197.11	-3,943.38	-1,411.12	4,174.24	7.74	0.00	-7.74	2,255.73
15,149.00	91.10	196.00	MWD	10/29/2...	Native...	11,196.58	-3,974.08	-1,420.13	4,206.22	2.38	0.94	-2.19	2,287.72
15,180.00	91.60	197.00	MWD	10/29/2...	Native...	11,195.85	-4,003.80	-1,428.93	4,237.20	3.61	1.61	3.23	2,318.72
15,212.00	92.20	197.00	MWD	10/29/2...	Native...	11,194.79	-4,034.38	-1,438.28	4,269.17	1.87	1.88	0.00	2,350.70
15,243.00	90.80	192.70	MWD	10/29/2...	Native...	11,193.98	-4,064.33	-1,446.22	4,300.15	14.58	-4.52	-13.87	2,381.68
15,275.00	90.40	192.30	MWD	10/29/2...	Native...	11,193.64	-4,095.57	-1,453.15	4,332.12	1.77	-1.25	-1.25	2,413.68
15,306.00	90.90	193.30	MWD	10/29/2...	Native...	11,193.29	-4,125.79	-1,460.01	4,363.09	3.61	1.61	3.23	2,444.67
15,338.00	91.70	196.60	MWD	10/29/2...	Native...	11,192.57	-4,156.70	-1,468.27	4,395.08	10.61	2.50	10.31	2,476.66
15,369.00	91.60	198.20	MWD	10/29/2...	Native...	11,191.67	-4,186.27	-1,477.53	4,426.04	5.17	-0.32	5.16	2,507.65
15,400.00	91.70	198.90	MWD	10/29/2...	Native...	11,190.78	-4,215.64	-1,487.39	4,456.96	2.28	0.32	2.26	2,538.63
15,431.00	91.90	197.70	MWD	10/29/2...	Native...	11,189.81	-4,245.06	-1,497.12	4,487.90	3.92	0.65	-3.87	2,569.62
15,463.00	91.60	195.50	MWD	10/29/2...	Native...	11,188.83	-4,275.71	-1,506.26	4,519.87	6.94	-0.94	-6.87	2,601.60
15,495.00	90.30	194.50	MWD	10/29/2...	Native...	11,188.30	-4,306.61	-1,514.54	4,551.86	5.13	-4.06	-3.13	2,633.60
15,526.00	90.20	193.20	MWD	10/29/2...	Native...	11,188.16	-4,336.71	-1,521.96	4,582.85	4.21	-0.32	-4.19	2,664.60
15,558.00	90.00	192.90	MWD	10/29/2...	Native...	11,188.11	-4,367.89	-1,529.18	4,614.84	1.13	-0.63	-0.94	2,696.60
15,589.00	89.80	191.40	MWD	10/30/2...	Native...	11,188.16	-4,398.19	-1,535.71	4,645.80	4.88	-0.65	-4.84	2,727.59
15,621.00	89.50	191.00	MWD	10/30/2...	Native...	11,188.36	-4,429.58	-1,541.92	4,677.73	1.56	-0.94	-1.25	2,759.59
15,652.00	89.30	190.10	MWD	10/30/2...	Native...	11,188.68	-4,460.05	-1,547.60	4,708.63	2.97	-0.65	-2.90	2,790.59
15,684.00	88.70	188.70	MWD	10/30/2...	Native...	11,189.24	-4,491.62	-1,552.82	4,740.47	4.76	-1.87	-4.38	2,822.59
15,715.00	88.90	188.20	MWD	10/30/2...	Native...	11,189.89	-4,522.28	-1,557.38	4,771.26	1.74	0.65	-1.61	2,853.58
15,746.00	89.10	187.60	MWD	10/30/2...	Native...	11,190.43	-4,552.98	-1,561.64	4,802.02	2.04	0.65	-1.94	2,884.57
15,778.00	88.80	188.10	MWD	10/30/2...	Native...	11,191.02	-4,584.67	-1,566.01	4,833.77	1.82	-0.94	1.56	2,916.57
15,809.00	89.50	188.20	MWD	10/30/2...	Native...	11,191.48	-4,615.35	-1,570.40	4,864.54	2.28	2.26	0.32	2,947.56
15,841.00	89.40	188.50	MWD	10/30/2...	Native...	11,191.78	-4,647.01	-1,575.05	4,896.32	0.99	-0.31	0.94	2,979.56
15,872.00	91.20	189.90	MWD	10/30/2...	Native...	11,191.62	-4,677.61	-1,580.01	4,927.16	7.36	5.81	4.52	3,010.56
15,903.00	90.90	188.80	MWD	10/30/2...	Native...	11,191.05	-4,708.20	-1,585.04	4,958.01	3.68	-0.97	-3.55	3,041.56
15,934.00	91.30	188.50	MWD	10/30/2...	Native...	11,190.46	-4,738.84	-1,589.70	4,988.81	1.61	1.29	-0.97	3,072.55
15,966.00	90.20	188.40	MWD	10/31/2...	Native...	11,190.04	-4,770.49	-1,594.40	5,020.60	3.45	-3.44	-0.31	3,104.55



Directional Survey

Well Name: RW 34-20BGR

API 43-047-53299		Surface Legal Location S20-T7S-R23E		Field Name RED WASH		County UINTAH		State UTAH		Well Configuration Type Horizontal	
Unique Well ID UT100240		Ground Elevation (ft) 5,519.8	Casing Flange Elevation (ft) 5,519.80	Current KB to GL (ft) 30.00		KB to CF (ft) 30.00		Spud Date 8/15/2014 07:00		Dry Hole TD Date 11/18/2014 07:00	

Survey Data													
MD (ft, KB)	Incl (°)	Azm (°)	Tool Type	Date	Survey Company	TVD (ft, KB)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Build (°/100ft)	Turn (°/100ft)	Traverse Distance (ft)
15,997.00	88.40	186.40	MWD	10/31/2...	Native...	11,190.42	-4,801.22	-1,598.40	5,051.32	8.68	-5.81	-6.45	3,135.54
16,028.00	88.50	186.00	MWD	10/31/2...	Native...	11,191.26	-4,832.03	-1,601.74	5,081.94	1.33	0.32	-1.29	3,166.53
16,060.00	88.70	185.50	MWD	10/31/2...	Native...	11,192.04	-4,863.86	-1,604.95	5,113.52	1.68	0.63	-1.56	3,198.52
16,091.00	88.70	185.90	MWD	10/31/2...	Native...	11,192.74	-4,894.70	-1,608.03	5,144.10	1.29	0.00	1.29	3,229.51
16,123.00	88.80	185.80	MWD	10/31/2...	Native...	11,193.44	-4,926.52	-1,611.29	5,175.69	0.44	0.31	-0.31	3,261.50
16,154.00	88.70	185.90	MWD	10/31/2...	Native...	11,194.12	-4,957.36	-1,614.45	5,206.29	0.46	-0.32	0.32	3,292.50
16,185.00	88.50	185.90	MWD	10/31/2...	Native...	11,194.87	-4,988.18	-1,617.63	5,236.89	0.65	-0.65	0.00	3,323.49
16,217.00	90.20	187.30	MWD	10/31/2...	Native...	11,195.24	-5,019.97	-1,621.31	5,268.54	6.88	5.31	4.38	3,355.48
16,248.00	90.70	187.50	MWD	10/31/2...	Native...	11,194.99	-5,050.71	-1,625.30	5,299.27	1.74	1.61	0.65	3,386.48
16,280.00	91.30	187.10	MWD	10/31/2...	Native...	11,194.44	-5,082.44	-1,629.37	5,330.97	2.25	1.87	-1.25	3,418.48
16,311.00	93.20	187.90	MWD	10/31/2...	Native...	11,193.22	-5,113.15	-1,633.41	5,361.68	6.65	6.13	2.58	3,449.45
16,343.00	93.40	186.80	MWD	10/31/2...	Native...	11,191.38	-5,144.84	-1,637.50	5,393.34	3.49	0.63	-3.44	3,481.40
16,374.00	93.90	188.30	MWD	11/1/2014	Native...	11,189.40	-5,175.50	-1,641.56	5,424.02	5.09	1.61	4.84	3,512.33
16,405.00	92.70	188.50	MWD	11/1/2014	Native...	11,187.62	-5,206.12	-1,646.08	5,454.76	3.92	-3.87	0.65	3,543.28
16,437.00	93.60	189.20	MWD	11/1/2014	Native...	11,185.86	-5,237.69	-1,651.00	5,486.53	3.56	2.81	2.19	3,575.23
16,468.00	94.20	190.40	MWD	11/1/2014	Native...	11,183.75	-5,268.17	-1,656.26	5,517.33	4.32	1.94	3.87	3,606.16
16,500.00	92.90	189.70	MWD	11/1/2014	Native...	11,181.77	-5,299.61	-1,661.83	5,549.15	4.61	-4.06	-2.19	3,638.10
16,531.00	91.60	191.40	MWD	11/1/2014	Native...	11,180.55	-5,330.06	-1,667.51	5,580.03	6.90	-4.19	5.48	3,669.07
16,562.00	91.50	191.70	MWD	11/2/2014	Native...	11,179.71	-5,360.43	-1,673.71	5,610.96	1.02	-0.32	0.97	3,700.06
16,593.00	92.40	191.90	MWD	11/2/2014	Native...	11,178.66	-5,390.75	-1,680.05	5,641.90	2.97	2.90	0.65	3,731.04
16,625.00	91.80	191.50	MWD	11/2/2014	Native...	11,177.49	-5,422.07	-1,686.53	5,673.82	2.25	-1.88	-1.25	3,763.02
16,656.00	91.40	191.60	MWD	11/2/2014	Native...	11,176.62	-5,452.43	-1,692.74	5,704.75	1.33	-1.29	0.32	3,794.01
16,688.00	90.60	191.20	MWD	11/3/2014	Native...	11,176.06	-5,483.79	-1,699.06	5,736.68	2.79	-2.50	-1.25	3,826.00
16,719.00	91.00	192.60	MWD	11/3/2014	Native...	11,175.63	-5,514.12	-1,705.45	5,767.63	4.70	1.29	4.52	3,857.00
16,750.00	91.20	192.70	MWD	11/3/2014	Native...	11,175.03	-5,544.36	-1,712.24	5,798.60	0.72	0.65	0.32	3,887.99
16,782.00	91.70	193.30	MWD	11/3/2014	Native...	11,174.23	-5,575.53	-1,719.43	5,830.57	2.44	1.56	1.88	3,919.98
16,814.00	91.80	193.20	MWD	11/3/2014	Native...	11,173.25	-5,606.67	-1,726.77	5,862.54	0.44	0.31	-0.31	3,951.97
16,845.00	91.00	193.50	MWD	11/3/2014	Native...	11,172.49	-5,636.82	-1,733.92	5,893.52	2.76	-2.58	0.97	3,982.96
16,877.00	90.20	194.30	MWD	11/3/2014	Native...	11,172.16	-5,667.88	-1,741.61	5,925.51	3.54	-2.50	2.50	4,014.96
16,907.00	90.40	195.60	MWD	11/3/2014	Native...	11,172.00	-5,696.86	-1,749.35	5,955.51	4.38	0.67	4.33	4,044.96
16,939.00	90.30	195.30	MWD	11/4/2014	Native...	11,171.80	-5,727.71	-1,757.87	5,987.51	0.99	-0.31	-0.94	4,076.96
16,971.00	88.20	194.80	MWD	11/4/2014	Native...	11,172.22	-5,758.60	-1,766.18	6,019.51	6.75	-6.56	-1.56	4,108.95
17,002.00	89.70	194.90	MWD	11/4/2014	Native...	11,172.79	-5,788.56	-1,774.12	6,050.50	4.85	4.84	0.32	4,139.95
17,034.00	87.70	193.80	MWD	11/4/2014	Native...	11,173.52	-5,819.55	-1,782.05	6,082.49	7.13	-6.25	-3.44	4,171.93
17,065.00	88.20	194.10	MWD	11/4/2014	Native...	11,174.62	-5,849.62	-1,789.52	6,113.46	1.88	1.61	0.97	4,202.91
17,097.00	88.20	194.40	MWD	11/4/2014	Native...	11,175.63	-5,880.62	-1,797.39	6,145.44	0.94	0.00	0.94	4,234.90
17,129.00	88.50	194.80	MWD	11/4/2014	Native...	11,176.55	-5,911.57	-1,805.46	6,177.43	1.56	0.94	1.25	4,266.89
17,160.00	88.60	194.60	MWD	11/4/2014	Native...	11,177.34	-5,941.55	-1,813.32	6,208.42	0.72	0.32	-0.65	4,297.88
17,192.00	88.20	194.40	MWD	11/4/2014	Native...	11,178.23	-5,972.52	-1,821.33	6,240.40	1.40	-1.25	-0.62	4,329.86
17,223.00	89.10	195.00	MWD	11/5/2014	Native...	11,178.96	-6,002.50	-1,829.19	6,271.40	3.49	2.90	1.94	4,360.85
17,254.00	88.70	194.90	MWD	11/5/2014	Native...	11,179.55	-6,032.44	-1,837.19	6,302.39	1.33	-1.29	-0.32	4,391.85
17,286.00	87.90	193.90	MWD	11/5/2014	Native...	11,180.50	-6,063.42	-1,845.14	6,334.37	4.00	-2.50	-3.13	4,423.83
17,317.00	87.70	194.10	MWD	11/5/2014	Native...	11,181.69	-6,093.48	-1,852.64	6,365.35	0.91	-0.65	0.65	4,454.81
17,349.00	91.20	197.10	MWD	11/5/2014	Native...	11,182.00	-6,124.29	-1,861.24	6,397.33	14.40	10.94	9.38	4,486.80
17,380.00	91.10	196.60	MWD	11/5/2014	Native...	11,181.38	-6,153.95	-1,870.22	6,428.31	1.64	-0.32	-1.61	4,517.79
17,411.00	91.30	197.50	MWD	11/5/2014	Native...	11,180.73	-6,183.58	-1,879.31	6,459.28	2.97	0.65	2.90	4,548.79
17,443.00	91.30	197.00	MWD	11/5/2014	Native...	11,180.00	-6,214.14	-1,888.80	6,491.25	1.56	0.00	-1.56	4,580.78
17,474.00	91.50	197.30	MWD	11/5/2014	Native...	11,179.25	-6,243.75	-1,897.94	6,522.22	1.16	0.65	0.97	4,611.77
17,506.00	92.80	198.50	MWD	11/5/2014	Native...	11,178.05	-6,274.18	-1,907.77	6,554.16	5.53	4.06	3.75	4,643.75
17,537.00	92.00	197.70	MWD	11/5/2014	Native...	11,176.75	-6,303.62	-1,917.39	6,585.08	3.65	-2.58	-2.58	4,674.72
17,569.00	90.90	196.80	MWD	11/5/2014	Native...	11,175.94	-6,334.17	-1,926.87	6,617.05	4.44	-3.44	-2.81	4,706.71



Directional Survey

Well Name: RW 34-20BGR

API 43-047-53299		Surface Legal Location S20-T7S-R23E			Field Name RED WASH		County UINTAH		State UTAH		Well Configuration Type Horizontal	
Unique Well ID UT100240		Ground Elevation (ft) 5,519.8		Casing Flange Elevation (ft) 5,519.80		Current KB to GL (ft) 30.00		KB to CF (ft) 30.00		Spud Date 8/15/2014 07:00		Dry Hole TD Date 11/18/2014 07:00

Survey Data													
MD (ft, KB)	Incl (°)	Azm (°)	Tool Type	Date	Survey Company	TVD (ft, KB)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Build (°/100ft)	Turn (°/100ft)	Traverse Distance (ft)
17,600.00	89.60	195.10	MWD	11/5/2014	Native...	11,175.80	-6,363.97	-1,935.39	6,648.04	6.90	-4.19	-5.48	4,737.70
17,632.00	90.40	196.80	MWD	11/5/2014	Native...	11,175.80	-6,394.74	-1,944.18	6,680.03	5.87	2.50	5.31	4,769.70
17,663.00	90.20	196.70	MWD	11/6/2014	Native...	11,175.64	-6,424.42	-1,953.12	6,711.02	0.72	-0.65	-0.32	4,800.70
17,695.00	90.90	197.70	MWD	11/6/2014	Native...	11,175.33	-6,454.99	-1,962.58	6,742.99	3.81	2.19	3.13	4,832.70
17,726.00	91.30	198.80	MWD	11/6/2014	Native...	11,174.74	-6,484.42	-1,972.29	6,773.94	3.78	1.29	3.55	4,863.69
17,758.00	92.20	201.50	MWD	11/7/2014	Native...	11,173.76	-6,514.45	-1,983.30	6,805.79	8.89	2.81	8.44	4,895.68
17,789.00	91.10	200.90	MWD	11/7/2014	Native...	11,172.87	-6,543.34	-1,994.51	6,836.60	4.04	-3.55	-1.94	4,926.66
17,821.00	90.90	200.70	MWD	11/8/2014	Native...	11,172.31	-6,573.25	-2,005.87	6,868.43	0.88	-0.62	-0.63	4,958.66
17,852.00	90.50	200.70	MWD	11/8/2014	Native...	11,171.93	-6,602.24	-2,016.83	6,899.27	1.29	-1.29	0.00	4,989.66
17,884.00	90.10	200.80	MWD	11/8/2014	Native...	11,171.76	-6,632.17	-2,028.16	6,931.11	1.29	-1.25	0.31	5,021.65
17,916.00	89.40	200.50	MWD	11/8/2014	Native...	11,171.90	-6,662.11	-2,039.45	6,962.95	2.38	-2.19	-0.94	5,053.65
17,947.00	89.10	199.90	MWD	11/8/2014	Native...	11,172.31	-6,691.20	-2,050.15	6,993.82	2.16	-0.97	-1.94	5,084.65
17,979.00	88.70	198.60	MWD	11/8/2014	Native...	11,172.92	-6,721.41	-2,060.70	7,025.73	4.25	-1.25	-4.06	5,116.64
18,010.00	88.70	198.30	MWD	11/8/2014	Native...	11,173.63	-6,750.81	-2,070.51	7,056.66	0.97	0.00	-0.97	5,147.64
18,041.00	89.10	198.50	MWD	11/8/2014	Native...	11,174.22	-6,780.21	-2,080.29	7,087.60	1.44	1.29	0.65	5,178.63
18,073.00	88.50	198.30	MWD	11/8/2014	Native...	11,174.89	-6,810.57	-2,090.39	7,119.54	1.98	-1.87	-0.62	5,210.62
18,105.00	88.50	197.50	MWD	11/8/2014	Native...	11,175.73	-6,841.01	-2,100.22	7,151.49	2.50	0.00	-2.50	5,242.61
18,136.00	89.40	197.90	MWD	11/8/2014	Native...	11,176.30	-6,870.54	-2,109.65	7,182.45	3.18	2.90	1.29	5,273.61
18,168.00	90.30	198.50	MWD	11/8/2014	Native...	11,176.38	-6,900.94	-2,119.64	7,214.40	3.38	2.81	1.87	5,305.61
18,199.00	90.20	198.50	MWD	11/8/2014	Native...	11,176.25	-6,930.34	-2,129.48	7,245.34	0.32	-0.32	0.00	5,336.61
18,230.00	90.10	198.30	MWD	11/8/2014	Native...	11,176.16	-6,959.75	-2,139.26	7,276.29	0.72	-0.32	-0.65	5,367.61
18,262.00	90.30	197.50	MWD	11/8/2014	Native...	11,176.05	-6,990.20	-2,149.10	7,308.24	2.58	0.63	-2.50	5,399.61
18,292.00	90.10	198.00	MWD	11/8/2014	Native...	11,175.95	-7,018.77	-2,158.24	7,338.21	1.80	-0.67	1.67	5,429.61
18,325.00	92.70	200.10	MWD	11/8/2014	Native...	11,175.14	-7,049.95	-2,169.01	7,371.11	10.13	7.88	6.36	5,462.59
18,356.00	93.70	200.90	MWD	11/9/2014	Native...	11,173.41	-7,078.94	-2,179.85	7,401.92	4.13	3.23	2.58	5,493.54
18,388.00	93.50	201.10	MWD	11/9/2014	Native...	11,171.40	-7,108.76	-2,191.29	7,433.68	0.88	-0.63	0.62	5,525.48
18,419.00	94.60	201.90	MWD	11/9/2014	Native...	11,169.21	-7,137.53	-2,202.63	7,464.41	4.38	3.55	2.58	5,556.40
18,451.00	93.40	200.90	MWD	11/9/2014	Native...	11,166.98	-7,167.25	-2,214.27	7,496.13	4.88	-3.75	-3.13	5,588.32
18,483.00	91.30	201.50	MWD	11/10/2...	Native...	11,165.67	-7,197.06	-2,225.84	7,527.91	6.82	-6.56	1.87	5,620.29
18,514.00	89.40	199.20	MWD	11/10/2...	Native...	11,165.48	-7,226.12	-2,236.61	7,558.77	9.62	-6.13	-7.42	5,651.29
18,546.00	88.70	200.50	MWD	11/10/2...	Native...	11,166.01	-7,256.21	-2,247.48	7,590.65	4.61	-2.19	4.06	5,683.28
18,577.00	88.90	198.80	MWD	11/10/2...	Native...	11,166.66	-7,285.40	-2,257.90	7,621.54	5.52	0.65	-5.48	5,714.28
18,609.00	88.70	197.50	MWD	11/10/2...	Native...	11,167.33	-7,315.80	-2,267.87	7,653.49	4.11	-0.63	-4.06	5,746.27
18,641.00	88.90	199.20	MWD	11/10/2...	Native...	11,168.00	-7,346.16	-2,277.94	7,685.42	5.35	0.63	5.31	5,778.26
18,672.00	89.00	199.20	MWD	11/11/2...	Native...	11,168.57	-7,375.44	-2,288.13	7,716.34	0.32	0.32	0.00	5,809.25
18,704.00	89.20	197.90	MWD	11/11/2...	Native...	11,169.07	-7,405.77	-2,298.31	7,748.27	4.11	0.63	-4.06	5,841.25
18,735.00	88.90	198.30	MWD	11/11/2...	Native...	11,169.58	-7,435.23	-2,307.94	7,779.22	1.61	-0.97	1.29	5,872.25
18,767.00	88.70	197.00	MWD	11/11/2...	Native...	11,170.25	-7,465.72	-2,317.64	7,811.18	4.11	-0.63	-4.06	5,904.24
18,798.00	89.00	196.60	MWD	11/11/2...	Native...	11,170.88	-7,495.39	-2,326.60	7,842.16	1.61	0.97	-1.29	5,935.23
18,830.00	88.10	197.20	MWD	11/11/2...	Native...	11,171.69	-7,526.00	-2,335.90	7,874.13	3.38	-2.81	1.87	5,967.22
18,861.00	88.20	197.00	MWD	11/11/2...	Native...	11,172.69	-7,555.61	-2,345.01	7,905.09	0.72	0.32	-0.65	5,998.20
18,893.00	88.70	198.50	MWD	11/11/2...	Native...	11,173.55	-7,586.07	-2,354.76	7,937.04	4.94	1.56	4.69	6,030.19
18,924.00	89.10	197.00	MWD	11/12/2...	Native...	11,174.15	-7,615.59	-2,364.21	7,968.00	5.01	1.29	-4.84	6,061.18
18,955.00	90.20	196.70	MWD	11/12/2...	Native...	11,174.34	-7,645.26	-2,373.19	7,998.98	3.68	3.55	-0.97	6,092.18
18,986.00	90.40	196.70	MWD	11/12/2...	Native...	11,174.17	-7,674.95	-2,382.10	8,029.97	0.65	0.65	0.00	6,123.18
19,018.00	90.40	197.50	MWD	11/12/2...	Native...	11,173.95	-7,705.54	-2,391.51	8,061.95	2.50	0.00	2.50	6,155.18
19,049.00	90.60	197.10	MWD	11/12/2...	Native...	11,173.68	-7,735.13	-2,400.73	8,092.92	1.44	0.65	-1.29	6,186.18
19,081.00	91.60	196.50	MWD	11/13/2...	Native...	11,173.07	-7,765.76	-2,409.98	8,124.90	3.64	3.13	-1.87	6,218.17
19,112.00	91.60	196.90	MWD	11/13/2...	Native...	11,172.20	-7,795.44	-2,418.88	8,155.87	1.29	0.00	1.29	6,249.16
19,144.00	91.30	196.60	MWD	11/13/2...	Native...	11,171.39	-7,826.07	-2,428.10	8,187.85	1.33	-0.94	-0.94	6,281.15
19,176.00	91.90	195.20	MWD	11/13/2...	Native...	11,170.50	-7,856.84	-2,436.86	8,219.83	4.76	1.88	-4.38	6,313.14



Directional Survey

Well Name: RW 34-20BGR

API 43-047-53299	Surface Legal Location S20-T7S-R23E	Field Name RED WASH	County UINTAH	State UTAH	Well Configuration Type Horizontal
Unique Well ID UT100240	Ground Elevation (ft) 5,519.8	Casing Flange Elevation (ft) 5,519.80	Current KB to GL (ft) 30.00	KB to CF (ft) 30.00	Spud Date 8/15/2014 07:00
					Dry Hole TD Date 11/18/2014 07:00

Survey Data													
MD (ft, KB)	Incl (°)	Azm (°)	Tool Type	Date	Survey Company	TVD (ft, KB)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Build (°/100ft)	Turn (°/100ft)	Traverse Distance (ft)
19,207.00	90.60	196.30	MWD	11/13/2...	Native...	11,169.82	-7,886.66	-2,445.28	8,250.82	5.49	-4.19	3.55	6,344.13
19,240.00	90.70	195.80	MWD	11/15/2...	Native...	11,169.45	-7,918.38	-2,454.40	8,283.81	1.55	0.30	-1.52	6,377.13
19,271.00	89.80	196.30	MWD	11/15/2...	Native...	11,169.31	-7,948.17	-2,462.97	8,314.80	3.32	-2.90	1.61	6,408.13
19,302.00	90.00	195.40	MWD	11/15/2...	Native...	11,169.37	-7,977.99	-2,471.44	8,345.80	2.97	0.65	-2.90	6,439.13
19,333.00	89.80	195.70	MWD	11/15/2...	Native...	11,169.42	-8,007.85	-2,479.75	8,376.80	1.16	-0.65	0.97	6,470.13
19,365.00	89.80	196.50	MWD	11/15/2...	Native...	11,169.53	-8,038.60	-2,488.62	8,408.79	2.50	0.00	2.50	6,502.13
19,369.00	89.80	197.00	MWD	11/15/2...	Native...	11,169.55	-8,042.43	-2,489.77	8,412.79	12.50	0.00	12.50	6,506.13
19,427.00	90.20	196.80	MWD	11/17/2...	Native...	11,169.55	-8,097.92	-2,506.63	8,470.76	0.77	0.69	-0.34	6,564.13
19,458.00	90.50	196.10	MWD	11/17/2...	Native...	11,169.36	-8,127.65	-2,515.41	8,501.75	2.46	0.97	-2.26	6,595.13
19,490.00	90.70	196.20	MWD	11/17/2...	Native...	11,169.02	-8,158.39	-2,524.31	8,533.74	0.70	0.63	0.31	6,627.12
19,521.00	91.20	196.60	MWD	11/17/2...	Native...	11,168.51	-8,188.12	-2,533.06	8,564.73	2.07	1.61	1.29	6,658.12
19,552.00	91.60	197.00	MWD	11/17/2...	Native...	11,167.75	-8,217.79	-2,542.02	8,595.70	1.82	1.29	1.29	6,689.11
19,583.00	91.70	197.90	MWD	11/17/2...	Native...	11,166.86	-8,247.35	-2,551.31	8,626.66	2.92	0.32	2.90	6,720.10
19,614.00	91.50	198.10	MWD	11/17/2...	Native...	11,165.99	-8,276.82	-2,560.89	8,657.60	0.91	-0.65	0.65	6,751.08
19,646.00	92.20	197.40	MWD	11/17/2...	Native...	11,164.96	-8,307.28	-2,570.64	8,689.55	3.09	2.19	-2.19	6,783.07
19,677.00	0.00	197.00	MWD	11/18/2...	Native...	11,184.21	-8,326.37	-2,576.62	8,709.54	297.42	-297.42	-1.29	6,803.07
19,709.00	90.90	196.90	MWD	11/18/2...	Native...	11,204.38	-8,345.97	-2,582.58	8,730.01	284.06	284.06	-0.31	6,823.56
19,772.00	92.40	197.20	MWD	11/18/2...	Native...	11,202.56	-8,406.18	-2,601.04	8,792.94	2.43	2.38	0.48	6,886.53



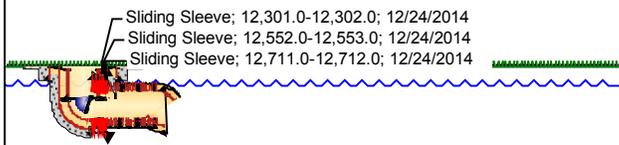
Downhole Well Profile

Well Name: RW 34-20BGR

API 43-047-53299		Surface Legal Location S20-T7S-R23E		Field Name RED WASH		County UINTAH		State UTAH		Well Configuration Type Horizontal	
Unique Well ID UT100240		Gr Elev (ft) 5,519.8		Current Elevation 5,549.80, SST 88 - KB 30		KB to CF (ft) 30.00		Spud Date 8/15/2014 07:00		Dry Hole TD Date 11/18/2014 07:00	

Type							
Des	Make	Model	WP (psi)	Service	WP Top (psi)	Top Ring Gasket	Bore Min (in)

Horizontal - Sidetrack 1, 6/25/2015 11:42:21 AM
Directional schematic (actual)



Casing Strings						
Csg Des	OD (in)	Wt/Len (lb/ft)	Grade	Top Thread	Set Depth (ft, KB)	
CONDUCTOR	14	36.00	J-55	WELD	110.0	
SURFACE CASING	9 5/8	40.00	P-110	LT&C	3,926.0	
TIE-BACK CASING	4 1/2	15.10	HCQ-125	CDC HTQ	10,542.0	
INTERMEDIATE CASING	7	29.00	HCP110	LTC	11,611.0	
PRODUCTION LINER	4 1/2	15.10	Q-125	CDC HTQ	19,730.0	

Perforations			
Date	Top (ft, KB)	Btm (ft, KB)	Completion
12/24/2014	11,679.0	11,680.0	MESAVERDE, Original Hole
12/24/2014	11,889.0	11,890.0	MESAVERDE, Original Hole
12/24/2014	12,134.0	12,135.0	MESAVERDE, Original Hole
12/24/2014	12,301.0	12,302.0	MESAVERDE, Original Hole
12/24/2014	12,552.0	12,553.0	MESAVERDE, Original Hole
12/24/2014	12,711.0	12,712.0	MESAVERDE, Original Hole
12/24/2014	13,068.0	13,069.0	MESAVERDE, Original Hole
12/24/2014	13,327.0	13,328.0	MESAVERDE, Original Hole
12/24/2014	13,540.0	13,541.0	MESAVERDE, Original Hole
12/23/2014	13,799.0	13,800.0	MESAVERDE, Original Hole
12/23/2014	14,051.0	14,051.0	MESAVERDE, Original Hole
12/23/2014	14,291.0	14,292.0	MESAVERDE, Original Hole
12/23/2014	14,547.0	14,548.0	MESAVERDE, Original Hole
12/23/2014	14,790.0	14,791.0	MESAVERDE, Original Hole
12/23/2014	15,548.0	15,549.0	MESAVERDE, Original Hole
12/23/2014	15,794.0	15,795.0	MESAVERDE, Original Hole
12/23/2014	16,004.0	16,005.0	MESAVERDE, Original Hole
12/23/2014	16,255.0	16,256.0	MESAVERDE, Original Hole
12/22/2014	16,507.0	16,508.0	MESAVERDE, Original Hole
12/22/2014	16,763.0	16,764.0	MESAVERDE, Original Hole
12/22/2014	17,025.0	17,026.0	MESAVERDE, Original Hole
12/22/2014	17,282.0	17,283.0	MESAVERDE, Original Hole
12/22/2014	17,500.0	17,501.0	MESAVERDE, Original Hole
12/22/2014	17,758.0	17,759.0	MESAVERDE, Original Hole
12/22/2014	18,005.0	18,006.0	MESAVERDE, Original Hole
12/22/2014	18,267.0	18,268.0	MESAVERDE, Original Hole
12/22/2014	18,479.0	18,480.0	MESAVERDE, Original Hole
12/19/2014	18,704.0	18,711.0	MESAVERDE, Original Hole
12/18/2014	19,730.0	19,740.0	MESAVERDE, Original Hole

Tubing Strings							
Tubing Description	Run Date	String Length (ft)	Set Depth (ft, KB)				
Tubing - Production	1/6/2015	1,137.96	11,356.0				
Item Des	Jts	Make	Model	OD (in)	Wt (lb/ft)	Grade	Len (ft)
Tubing Hanger	1			4			1.20
Tubing	34 5		T&C Non-Upset	2 3/8	4.70	L-80	1,132.50
1.81 F- Nipple	1			2 3/8			0.97
Tubing Pup Joint	1			2 3/8	4.70	N-80	2.09
Pump out Plug	1			2 3/8			0.80

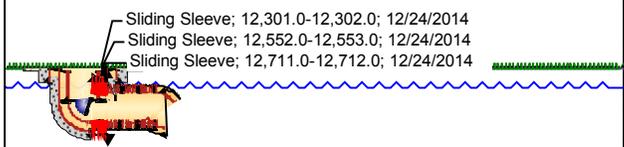


Downhole Well Profile

Well Name: RW 34-20BGR

API 43-047-53299	Surface Legal Location S20-T7S-R23E	Field Name RED WASH	County UINTAH	State UTAH	Well Configuration Type Horizontal	
Unique Well ID UT100240	Gr Elev (ft) 5,519.8	Current Elevation 5,549.80, SST 88 - KB 30	KB to CF (ft) 30.00	Spud Date 8/15/2014 07:00	Dry Hole TD Date 11/18/2014 07:00	Total Depth (All) (ft, KB)

Horizontal - Sidetrack 1, 6/25/2015 11:42:21 AM	Item Des	Jts	Make	Model	OD (in)	Wt (lb/ft)	Grade	Len (ft)
Directional schematic (actual)	Wire Line re entry collar	1			2 3/8			0.40



Rod Strings							
Rod Description	Run Date	String Length (ft)	Set Depth (ft, KB)				
Item Des	Jts	Make	Model	OD (in)	Wt (lb/ft)	Grade	Len (ft)