

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 32-25A					
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT RED WASH					
4. TYPE OF WELL Gas Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME RED WASH					
6. NAME OF OPERATOR QEP ENERGY COMPANY						7. OPERATOR PHONE 303 308-3068					
8. ADDRESS OF OPERATOR 11002 East 17500 South, Vernal, Ut, 84078						9. OPERATOR E-MAIL debbie.stanberry@questar.com					
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UTU0561			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		1980 FNL 1925 FEL		SWNE	25	7.0 S	22.0 E	S			
Top of Uppermost Producing Zone		1980 FNL 1925 FEL		SWNE	25	7.0 S	22.0 E	S			
At Total Depth		1980 FNL 1925 FEL		SWNE	25	7.0 S	22.0 E	S			
21. COUNTY UINTAH			22. DISTANCE TO NEAREST LEASE LINE (Feet) 1925			23. NUMBER OF ACRES IN DRILLING UNIT 40					
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 788			26. PROPOSED DEPTH MD: 11612 TVD: 11612					
27. ELEVATION - GROUND LEVEL 5509			28. BOND NUMBER ESB000024			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE A-36125/ 49-2153					
Hole, Casing, and Cement Information											
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement		Sacks	Yield	Weight
Surf	12.25	9.625	0 - 3982	36.0	N-80 LT&C	0.0	Halliburton Light , Type Unknown		460	3.12	11.0
							Halliburton Premium , Type Unknown		330	1.47	13.5
Prod	7.875	4.5	0 - 11612	11.6	HCP-110 LT&C	10.5	Halliburton Light , Type Unknown		660	3.18	11.0
							Halliburton Premium , Type Unknown		510	1.65	13.5
ATTACHMENTS											
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES											
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN						
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER						
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP						
NAME Valyn Davis			TITLE Regulatory Affairs Analyst			PHONE 435 781-4369					
SIGNATURE			DATE 08/01/2011			EMAIL Valyn.Davis@qepres.com					
API NUMBER ASSIGNED 43047517880000			APPROVAL  Permit Manager								

QEP Energy Company
RW 32-25A
Summarized Drilling Procedure

1. Construct location per plat.
2. MIRU air drilling rig.
3. Pre-set conductor.
4. Nipple up diverter system.
5. Drill 12-1/4" hole to 3,982' with air/mist.
6. RIH with 9-5/8" 36# N-80 casing and cement same per program.
7. RDMO air drilling rig.
8. MIRU conventional drilling rig.
9. NU and test 5M BOPE.
10. Drill out of 9-5/8" shoe and down to 11,612' using conventional mud systems.
11. Log well. Triple or Quad-Combo (GR, NEU/DEN, IND, RES, SON)
12. RIH with 4-1/2" 11.6# HCP-110 casing and cement same per program.
13. Pressure test casing.
14. ND BOP's and NU remainder of wellhead. Set BPV.
15. RDMO.

CONFIDENTIAL

ONSHORE OIL & GAS ORDER NO. 1
QEP ENERGY COMPANY
RW 32-25A

DRILLING PROGRAM

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

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

1. Formation Tops

The estimated top of important geologic markers are as follows:

<u>Formation</u>	<u>Depth, TVD & MD</u>
Green River	2,997'
Mahogany	3,932'
Wasatch	6,512'
Mesaverde	9,172'
Sego	11,512'
TD	11,612'

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

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

<u>Substance</u>	<u>Formation</u>	<u>Depth, TVD & MD</u>
Oil	Green River	2,997'
Gas	Wasatch	6,512'
Gas	Mesaverde	9,172'
Gas	Sego	11,512'

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

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

ONSHORE OIL & GAS ORDER NO. 1
 QEP ENERGY COMPANY
 RW 32-25A

(which was filed on May 7, 1964) or Red Wash water right # 49-2153 (which was filed on March 25, 1960). It was determined by the Fish and Wildlife Service that

any water right number filed before 1989 is not depleting to the Upper Colorado River System, to supply fresh water for drilling purposes. All water resulting from drilling operations will be disposed of at Red Wash Central Battery Disposal site; SWSE, Section 27, T7S, R23E or Wonsits Valley Disposal Site; SWNW, Section 12, T8S, R21E.

3. Operator's Specification for Pressure Control Equipment

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

4. Casing Design:

Hole Size	Csg. Size	Top (MD)	Bottom (MD)	Wt.	Grade	Thread	Cond.	Expected MW(ppg)
17 1/2"	14"	Sfc	60'	Steel	Conductor	None	Used	N/A
12-1/4"	9-5/8"	Sfc	3,982'	36#	N-80	LTC	New	Air
7 7/8"	4-1/2"	Sfc	11,612'	11.6#	HCP-110	LTC	New	10.5

ONSHORE OIL & GAS ORDER NO. 1
QEP ENERGY COMPANY
RW 32-25A

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

Casing Design Factors

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

Burst: 1.2

Collapse: 1.2

Tension: 1.6

Maximum anticipated mud weight: 10.5 ppg
Maximum anticipated surface treating pressure: 7,200 psi

5. **Cementing Program**

9-5/8" Surface Casing:

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

Tail Slurry: 3,000' – 3,982'. 330 sx (479 ft³) Halliburton Econocem, 0.2% HR-5 Retarder, 1.0 pps Granulite TR 1/4, 0.125 pps Poly-E-Flake, Slurry Weight 13.5 ppg, 1.47 ft³/sk, 50% XS in open hole.

4-1/2" Production Casing*:

Lead Slurry: 3,000' (TOC) – 9,172'. 660 sks (2,091 ft³) Halliburton Extendacem, 1 pps Granulite 1/4, 0.125 pps Poly-E-Flake. Slurry Weight 11.0 lb/gal, 3.18 ft³/sk, 50% excess over gauge in open hole only.

Tail Slurry: 9,172' – 11,612'. 510 sks (837 ft³), Halliburton Expandacem, 0.3% Super CBL (Expander), 0.6% HR-800 (Retarder), 1 pps Granulite TR ¼, 0.125 pps Poly-E-Flake (LCM). Slurry Weight 13.5 lb/gal, 1.65 ft³/sk, 50% excess over gauge hole.

*Final cement volumes to be calculated from caliper log, if run.

6. **Auxiliary Equipment**

A. Kelly Cock – yes

ONSHORE OIL & GAS ORDER NO. 1
QEP ENERGY COMPANY
RW 32-25A

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

Drilling surface hole with air:

A variance from 43 CFR 3160 Onshore Oil and Gas Order #2, Section III Requirements, subsection E. Special Drilling Operations is requested for the specific operation of drilling and setting surface casing on the subject well with a truck mounted air rig. The variance from the following requirements of Order #2 is requested because surface casing depth for this well is 3,982' feet and high pressures are not expected.

1. **Properly lubricated and maintained rotating head** – A diverter system in place of a rotating head. The diverter system forces the air and cutting returns to the reserve pit and is used to drill the surface casing.
2. **Blooiie line discharge 100 feet from wellbore and securely anchored** – the blooiie line discharge for this operation will be located 50 to 70 feet from the wellhead. This reduced length is necessary due to the smaller location size to minimize surface disturbance.
3. **Automatic igniter or continuous pilot light on blooiie line** – a diffuser will be used rather than an automatic pilot/igniter. Water is injected into the compressed air and eliminates the need for a pilot light and the need for dust suppression equipment.
4. **Compressors located in the opposite direction from the blooiie line a minimum of 100 feet from the wellbore** – compressors located within 50 feet on the opposite side of the wellbore from the blooiie line and is equipped with a 1) emergency kill switch on the driller's console, 2) pressure relief valves on the compressors, 3) spark arrestors on the motors.
5. **Kill Fluid to control well** – In lieu of having mud products on location to kill the well for an unanticipated kick, QEP will kill the well with water contained in a 400 bbl tank on site. The 400 bbl water tank will also be storage for surface casing cement water.
6. **Deflector on the end of the blooiie line** – QEP will mount a deflector unit at the end of the blooiie 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

ONSHORE OIL & GAS ORDER NO. 1
QEP ENERGY COMPANY
RW 32-25A

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. Drilling below the 9-5/8” casing will be done with water based mud. Maximum anticipated mud weight is 10.5 ppg.
- H. No minimum quantity of weight material will be required to be kept on location.
- I. Gas detector will be used from intermediate casing depth to TD.

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

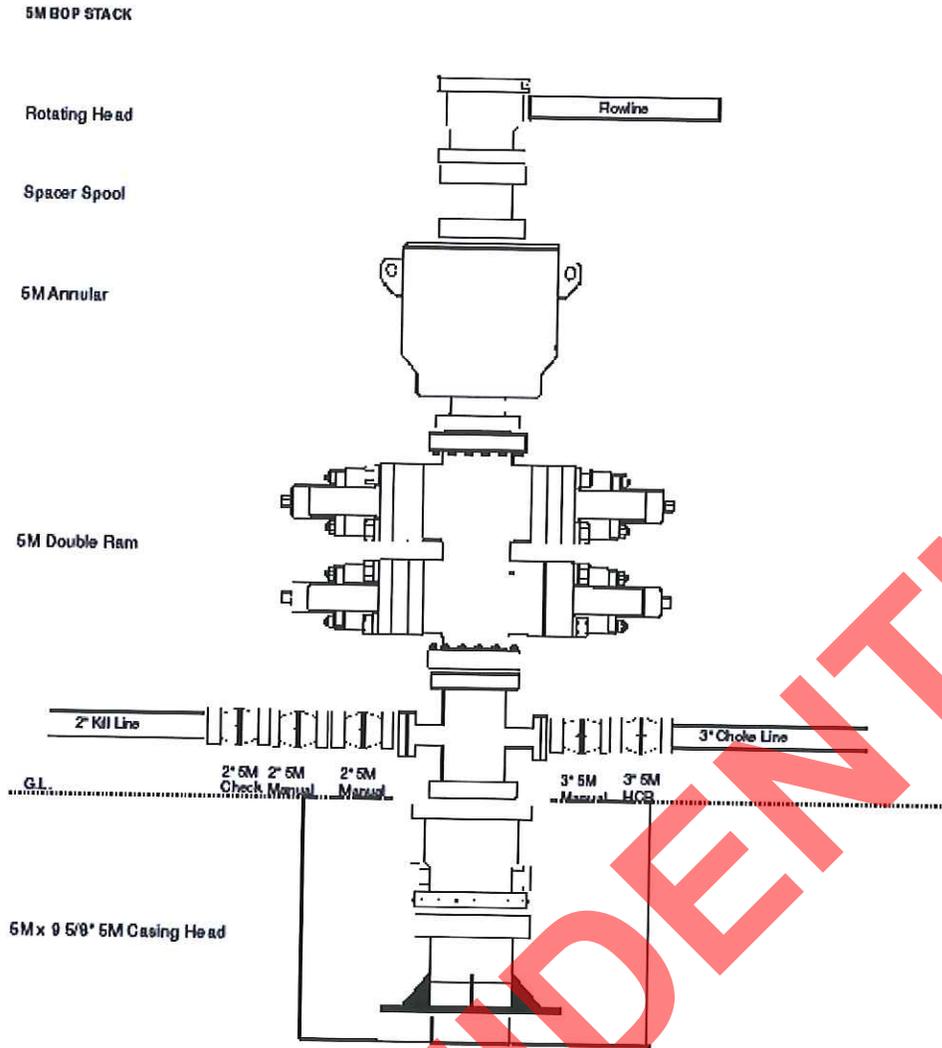
- A. Cores – none.
- B. DST – none anticipated
- C. Logging – Mud logging – Intermediate Casing to TD
OH Logs: GR-SP-Induction, Neutron Density.
- D. Formation and Completion Interval:
– Stimulation will be designed for the particular area of interest as encountered.

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

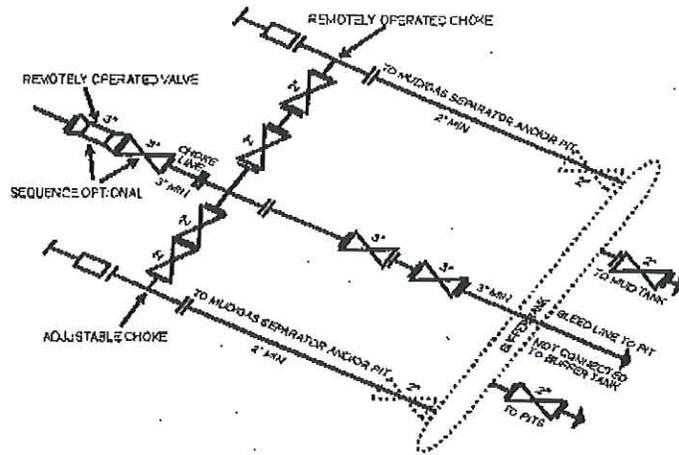
No abnormal temperatures or pressures are anticipated. Maximum anticipated bottom hole pressure equals approximately 6,340 psi. Maximum anticipated bottom hole temperature is 212° F.

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

ONSHORE OIL & GAS ORDER NO. 1
QEP ENERGY COMPANY
RW 32-25A



ONSHORE OIL & GAS ORDER NO. 1
QEP ENERGY COMPANY
RW 32-25A



5M CHOKER MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKERS MAY VARY

Although not required for any of the choke manifold systems, buffer tanks are sometimes installed downstream of the choke assemblies for the purpose of manifolding the bleed lines together. When buffer tanks are employed, valves shall be installed upstream to isolate a failure or malfunction without interrupting flow control. Though not shown on 2DL, 3M, 10M, OR 15M drawings, it would also be applicable to those situations.
[54 FR 29528, Sept. 27, 1989]

CONFIDENTIAL

RW 32-25A
SWNE Sec 25 T7S R22E
1980' FNL & 1925' FEL Sec 25 T7S R22E S.L.B.&M.
Uintah County, Utah
KB 5,523'
GL 5,509'

14" Conductor at 60'

Cemented to surface

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

12-1/4" Open Hole

9-5/8" 36# N-80 @ 3,982'

7-7/8" Open Hole

Top of Production Tail Cement @ 9,172'

4 1/2" 11.6# HCP-110

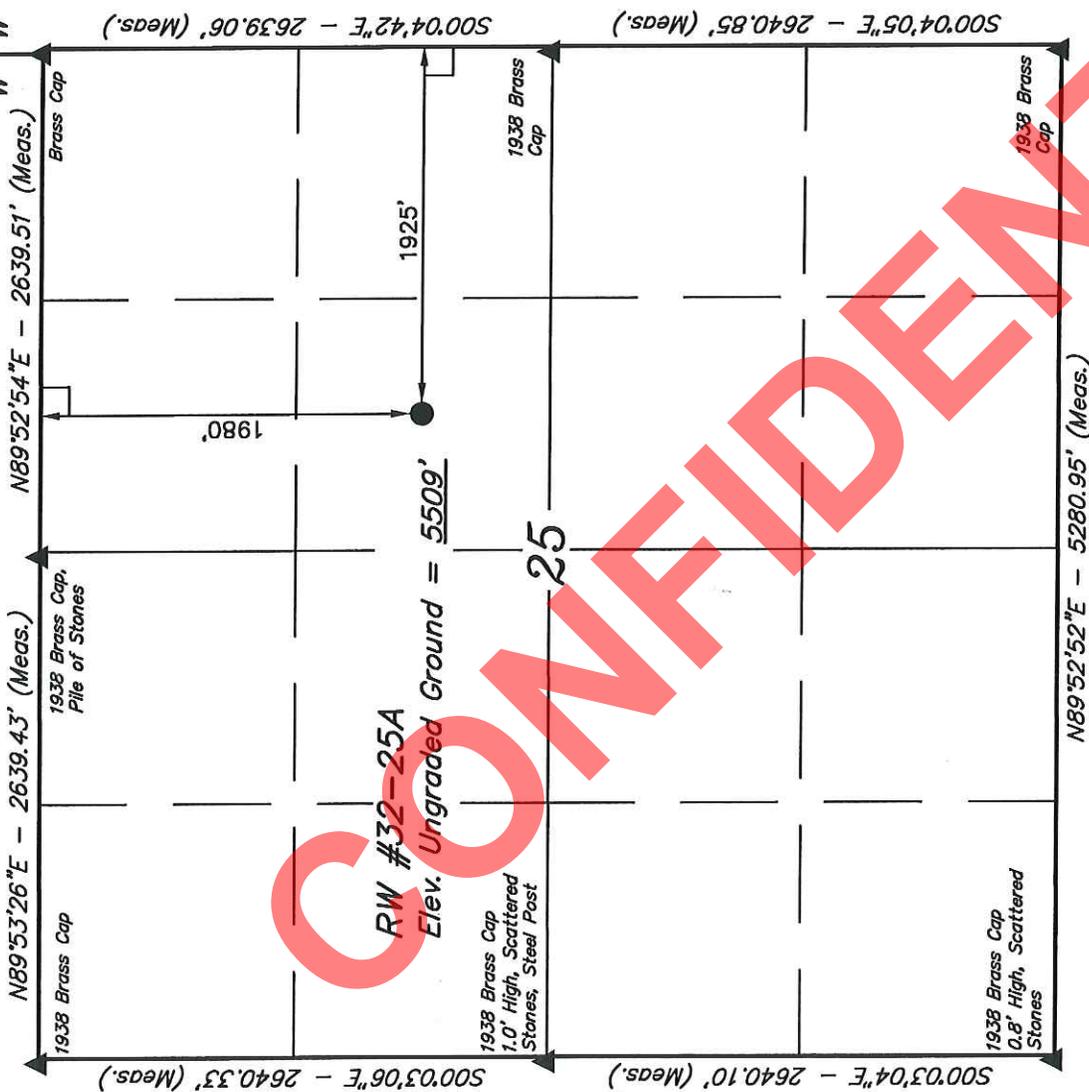
11,612'

CONFIDENTIAL

T7S, R22E, S.L.B.&M.

QEP ENERGY COMPANY

Well location, RW #32-25A, located as shown in the SW 1/4 NE 1/4 of Section 25, T7S, R22E, S.L.B.&M., Uintah County, Utah.

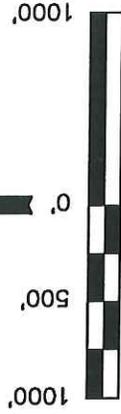


BASIS OF ELEVATION

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 OF LAND SURVEYOR

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

[Signature]

REGISTERED LAND SURVEYOR
 REGISTRATION NO. 161319
 STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING	
85 SOUTH 200 EAST - VERNAL, UTAH 84078 (435) 789-1017	
SCALE 1" = 1000'	DATE SURVEYED: 03-25-11
PARTY A.F. J.C. K.O.	REFERENCES G.L.O. PLAT
WEATHER COLD	FILE
QEP ENERGY COMPANY	

- LEGEND:**
- \perp = 90° SYMBOL
 - \bullet = PROPOSED WELL HEAD.
 - \blacktriangle = SECTION CORNERS LOCATED.
- LATITUDE = $40^{\circ}11'03.46''$ (40.184294)
 LONGITUDE = $109^{\circ}23'08.76''$ (109.385767)
 (NAD 83)
- LATITUDE = $40^{\circ}11'03.59''$ (40.184331)
 LONGITUDE = $109^{\circ}23'06.30''$ (109.385083)
 (NAD 27)

QEP ENERGY COMPANY

RW #32-25A

LOCATED IN UTAH COUNTY, UTAH
SECTION 25, T7S, R22E, S.L.B.&M.

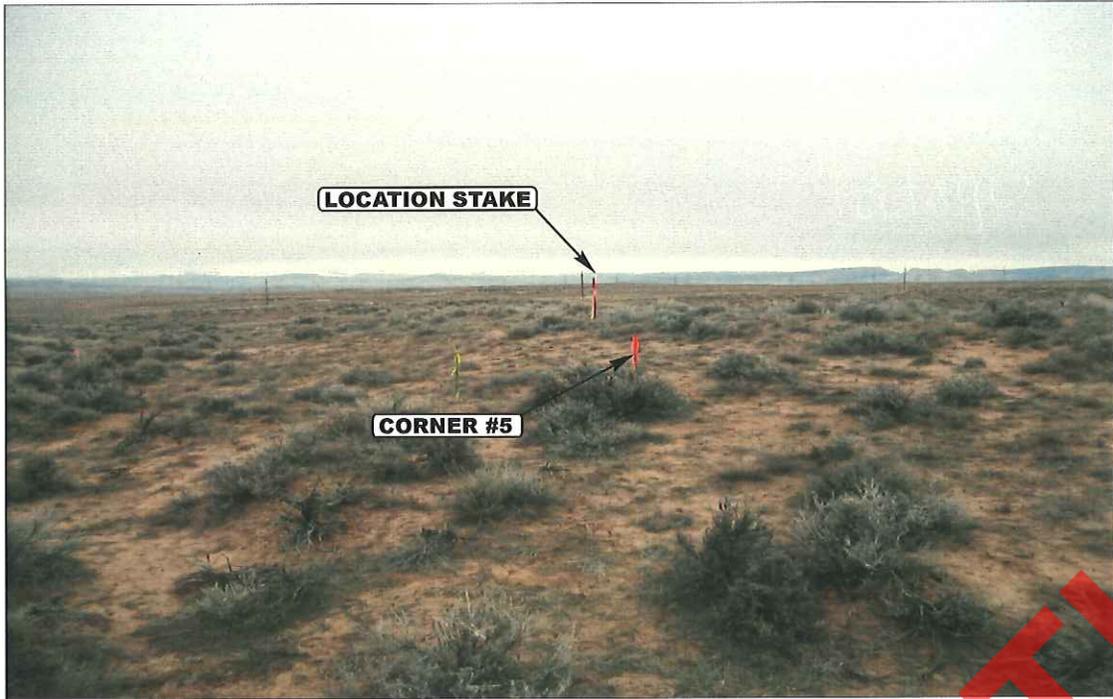


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: SOUTHEASTERLY



- Since 1964 -

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

LOCATION PHOTOS

03 30 11
MONTH DAY YEAR

PHOTO

TAKEN BY: A.F.

DRAWN BY: J.J.

REVISED: 00-00-00

T7S, R22E, S.L.B.&M.

QEP ENERGY COMPANY

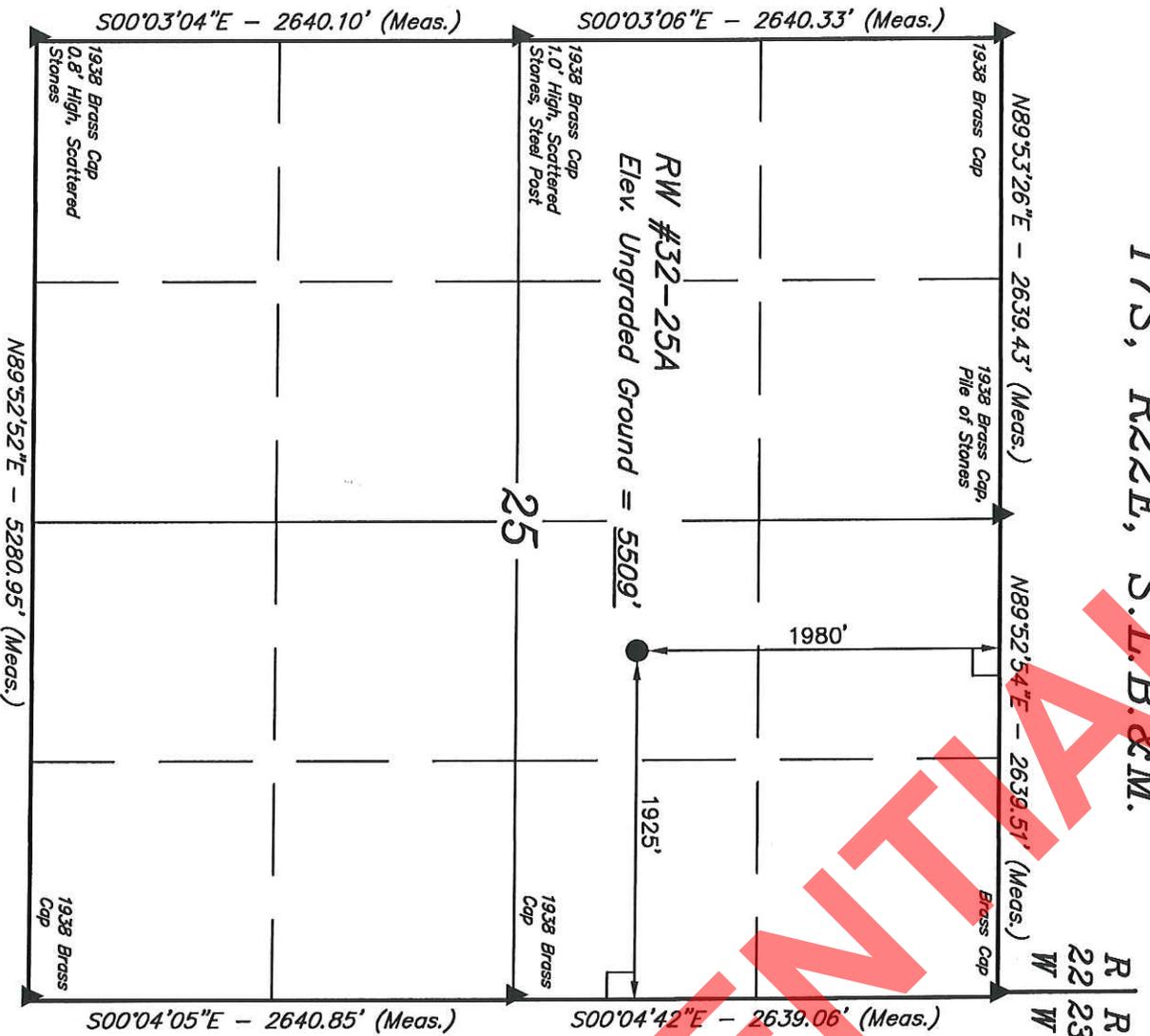
Well location, RW #32-25A, located as shown in the SW 1/4 NE 1/4 of Section 25, T7S, R22E, S.L.B.&M., Uintah County, Utah.

BASIS OF ELEVATION

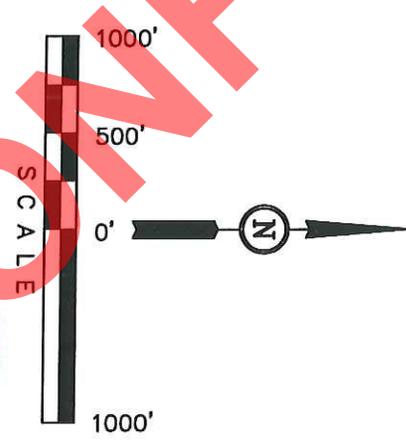
BENCH MARK 20EAM LOCATED IN THE SE 1/4 OF SECTION 35, T8S, R21E, S.L.B.&M. TAKEN FROM THE OURAY SE, QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4697 FEET.

BASIS OF BEARINGS

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



- LEGEND:**
- = 90° SYMBOL
 - = PROPOSED WELL HEAD.
 - ▲ = SECTION CORNERS LOCATED.
- (NAD 83)
 LATITUDE = 40°11'03.46" (40.184294)
 LONGITUDE = 109°23'08.76" (109.385767)
 (NAD 27)
 LATITUDE = 40°11'03.59" (40.184331)
 LONGITUDE = 109°23'06.30" (109.385083)



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

REGISTERED LAND SURVEYOR
 REGISTRATION NO. 161319
 STATE OF UTAH

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

SCALE 1" = 1000'	DATE SURVEYED: 03-25-11	DATE DRAWN: 03-28-11
PARTY A.F. J.C. K.O.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE	QEP ENERGY COMPANY

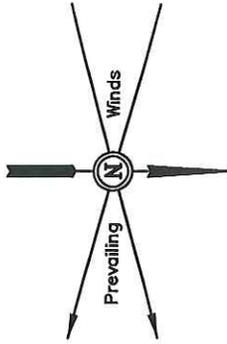
QEP ENERGY COMPANY

LOCATION LAYOUT FOR

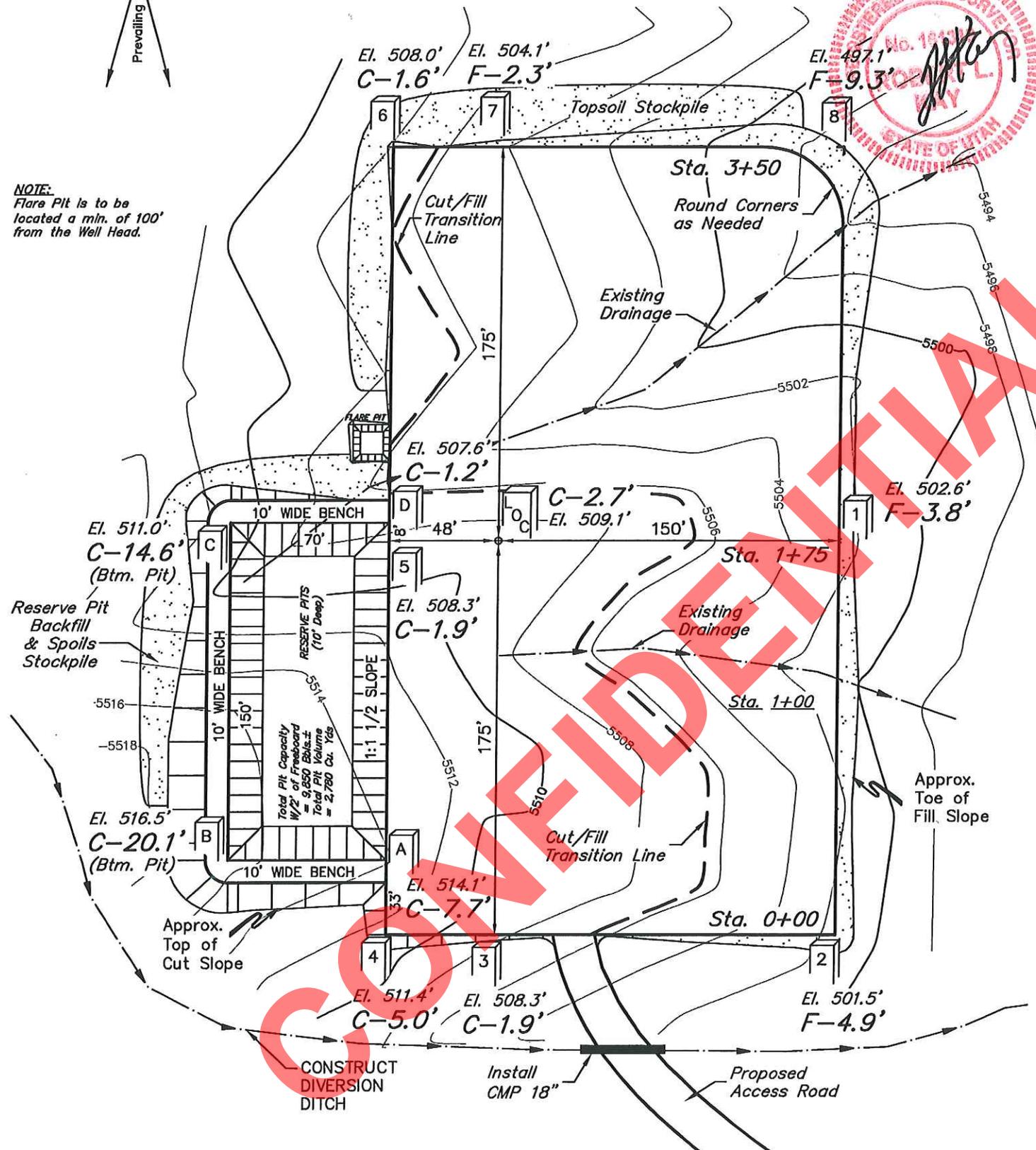
RW #32-25A
SECTION 25, T7S, R22E, S.L.B.&M.
1980' FNL 1925' FEL

FIGURE #1

SCALE: 1" = 60'
DATE: 03-29-11
DRAWN BY: K.O.



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



Elev. Ungraded Ground At Loc. Stake = 5509.1'
FINISHED GRADE ELEV. AT LOC. STAKE = 5506.4'

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

QEP ENERGY COMPANY

TYPICAL CROSS SECTIONS FOR

RW #32-25A

SECTION 25, T7S, R22E, S.L.B.&M.

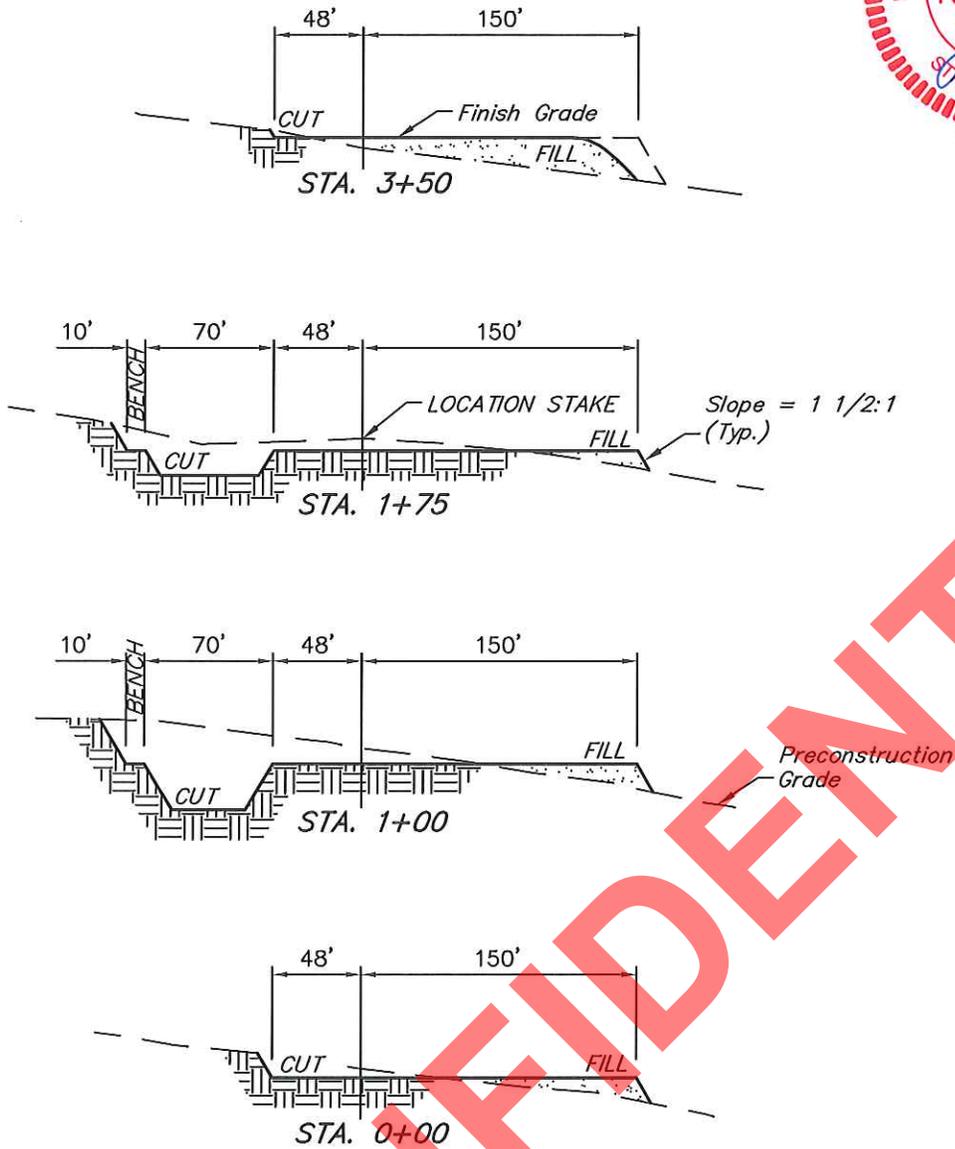
1980' FNL 1925' FEL

FIGURE #2



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

DATE: 03-29-11
DRAWN BY: K.O.
REVISED: 04-28-11



NOTE:

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

APPROXIMATE ACREAGES

WELL SITE DISTURBANCE	= ± 2.351 ACRES
ACCESS ROAD DISTURBANCE	= ± 0.701 ACRES
PIPELINE DISTURBANCE	= ± 0.832 ACRES
TOTAL	= ± 3.884 ACRES

* NOTE:
FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

(6") Topsoil Stripping	= 1,760 Cu. Yds.
Remaining Location	= 8,230 Cu. Yds.
TOTAL CUT	= 9,990 CU.YDS.
FILL	= 6,840 CU.YDS.

EXCESS MATERIAL	= 3,150 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 3,150 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 #32-25A

SECTION 25, T7S, R22E, S.L.B.&M.

1980' FNL 1925' FEL

FIGURE #3

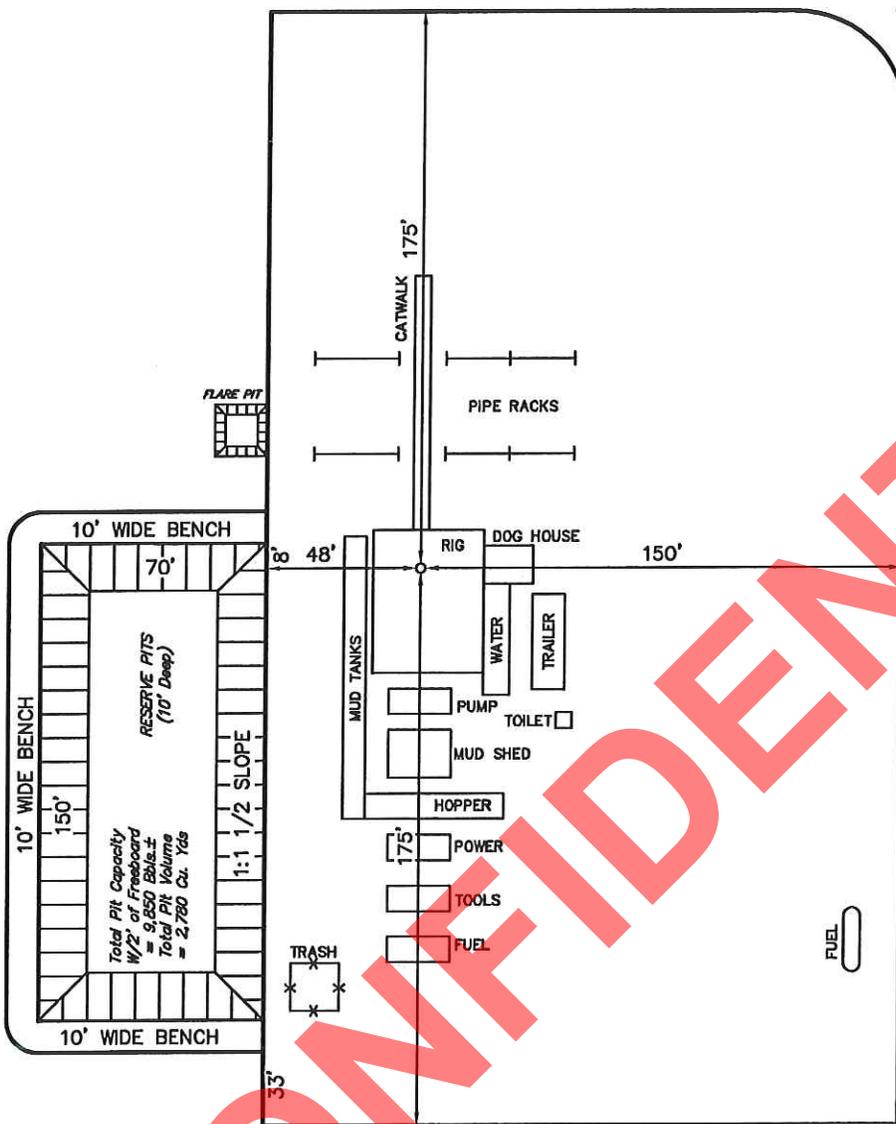
SCALE: 1" = 60'

DATE: 03-29-11

DRAWN BY: K.O.



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

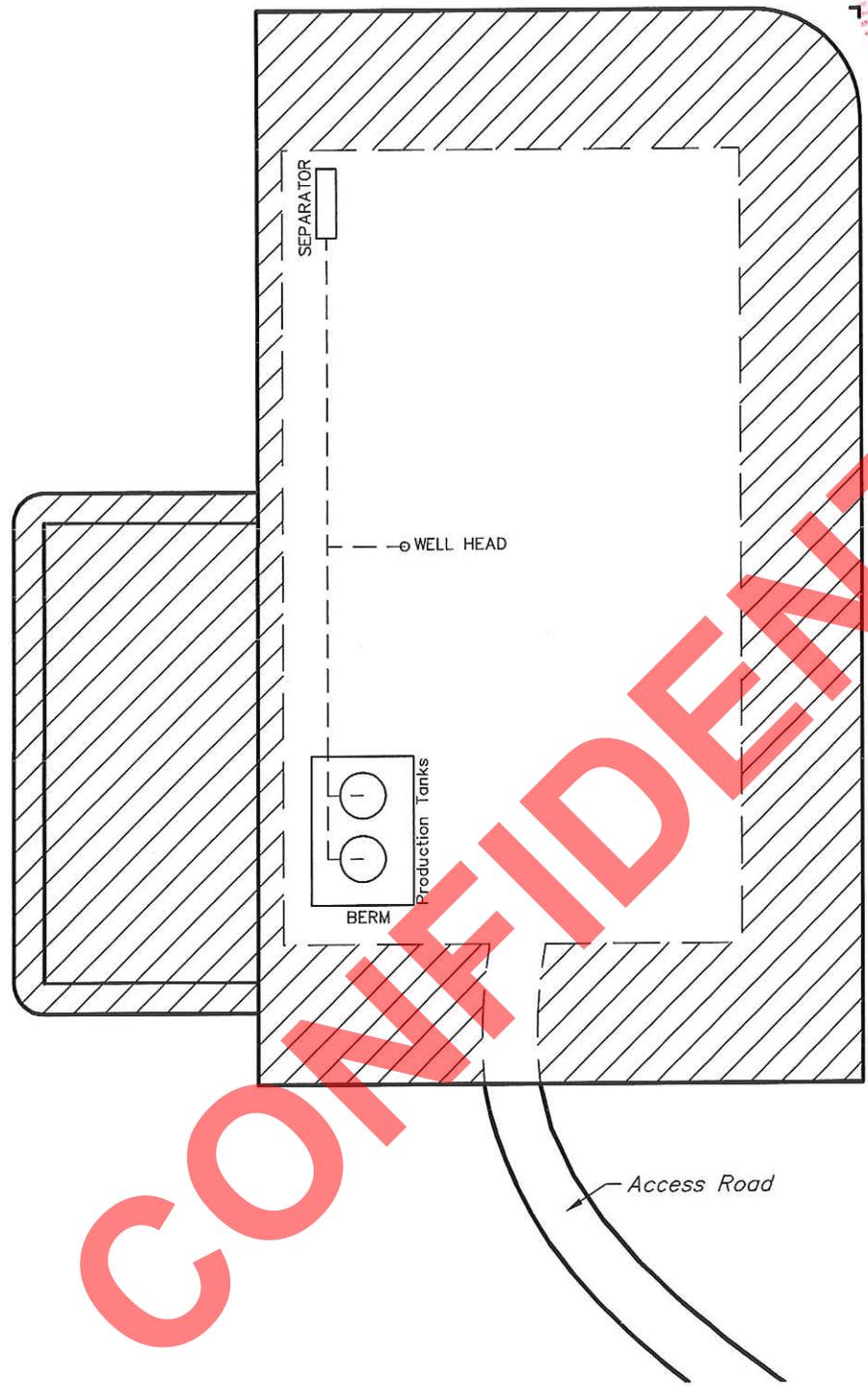


CONFIDENTIAL

Proposed Access Road

QEP ENERGY COMPANY
PRODUCTION FACILITY LAYOUT FOR
RW #32-25A
SECTION 25, T7S, R22E, S.L.B.&M.
1980' FNL 1925' FEL

FIGURE #4
SCALE: 1" = 60'
DATE: 04-04-11
DRAWN BY: K.O.
REV: 07-07-11 J.J.



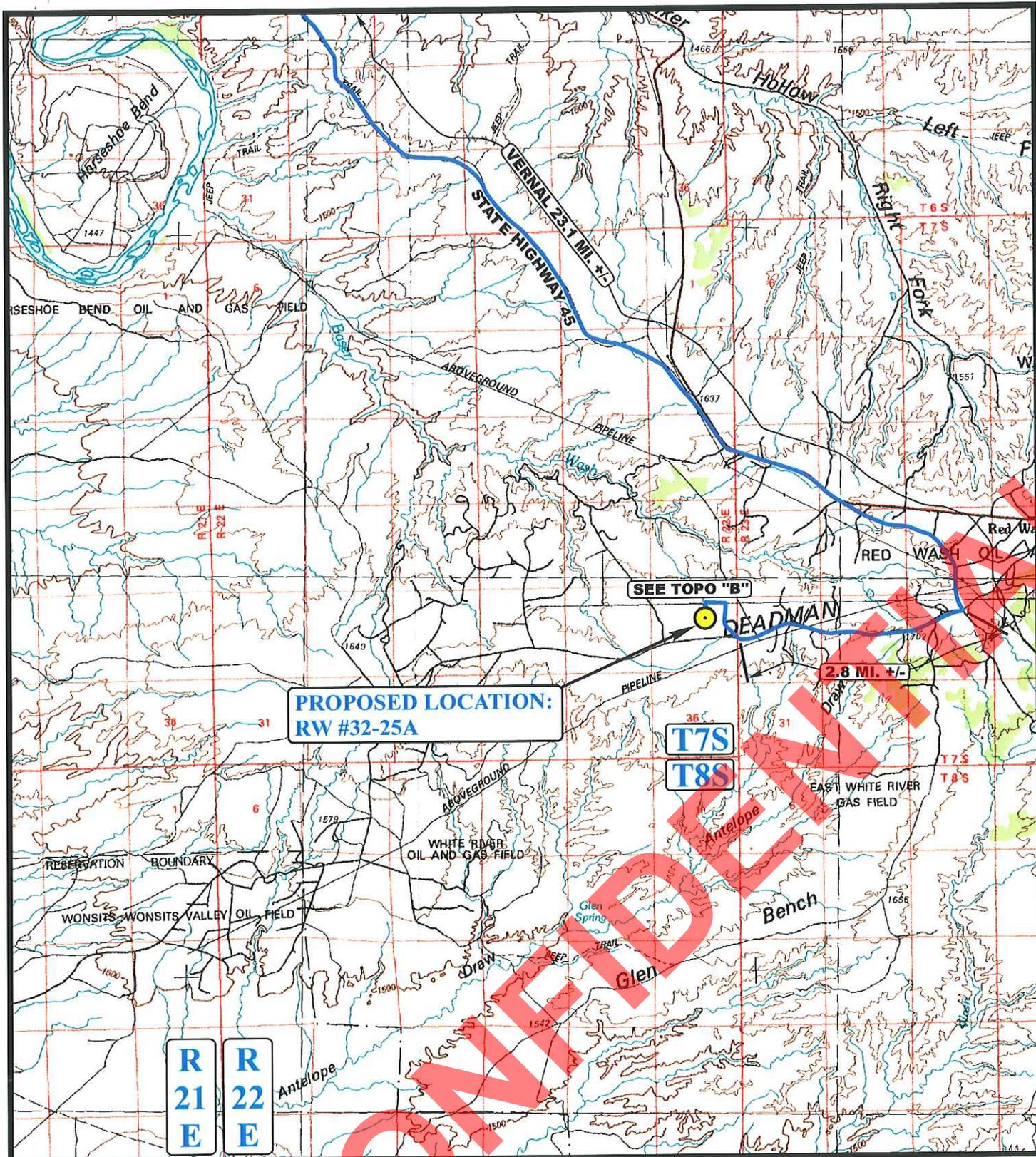
 RECLAIMED AREA

QEP ENERGY COMPANY
RW #32-25A
SECTION 25, T7S, R22E, S.L.B.&M.

PROCEED IN AN EASTERLY, THEN SOUTHERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 3.9 MILES TO THE JUNCTION OF STATE HIGHWAY 45; EXIT RIGHT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 19.2 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE WEST; TURN RIGHT AND PROCEED IN A WESTERLY DIRECTION APPROXIMATELY 2.8 MILES TO 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 JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 100' TO THE BEGINNING OF THE PROPOSED ACCESS TO THE SOUTHEAST; FOLLOW ROAD FLAGS IN A SOUTHEASTERLY, THEN SOUTHWESTERLY DIRECTION APPROXIMATELY 1,017' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 26.8 MILES.

CONFIDENTIAL



**PROPOSED LOCATION:
RW #32-25A**

SEE TOPO "B"

**T7S
T8S**

**R
21
E** **R
22
E**

LEGEND:

PROPOSED LOCATION

QEP ENERGY COMPANY

**RW #32-25A
SECTION 25, T7S, R22E, S.L.B.&M.
1980' FNL 1925' FEL**



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

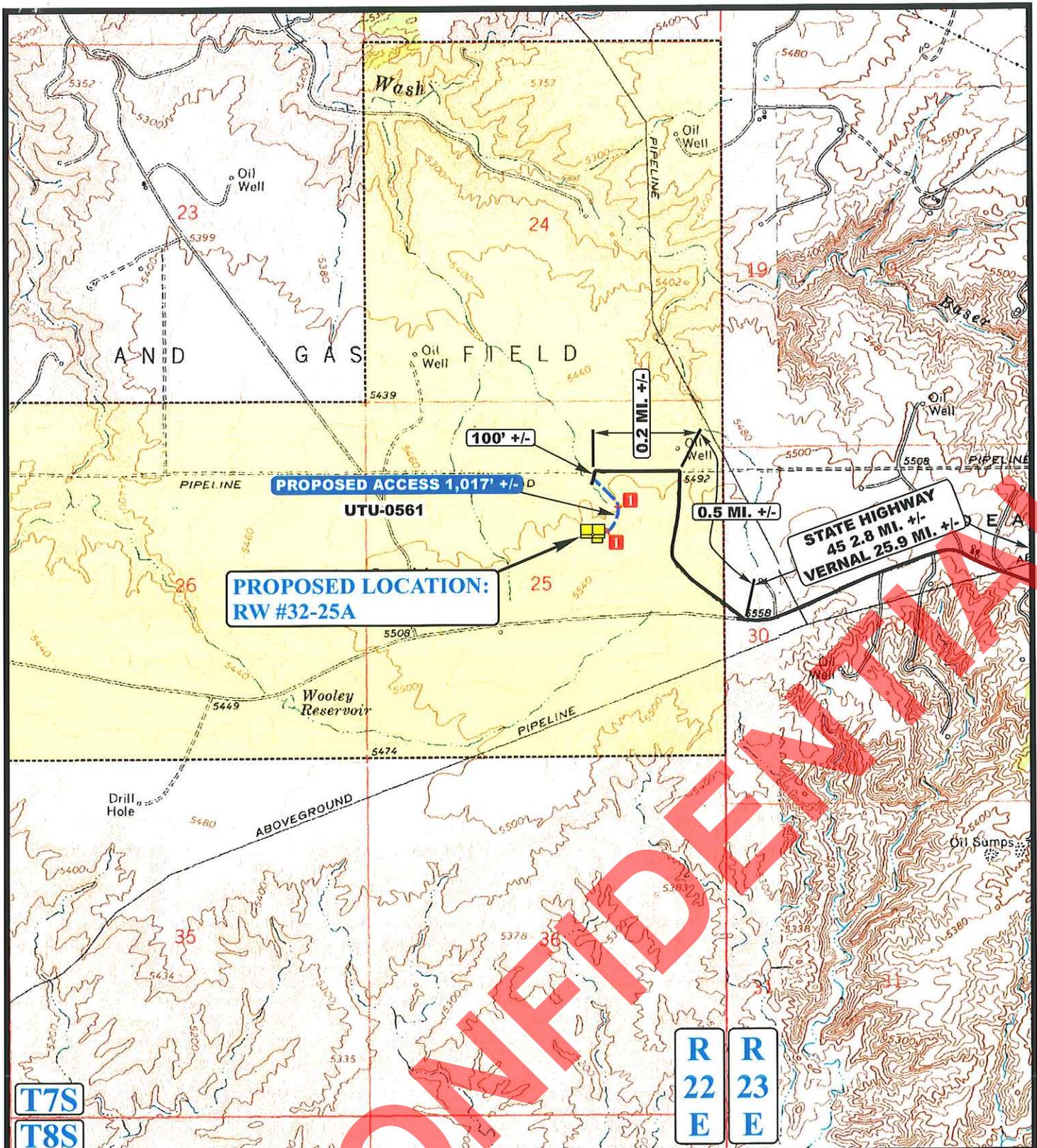


**ACCESS ROAD
MAP**

03 30 11
MONTH DAY YEAR



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



LEGEND:

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

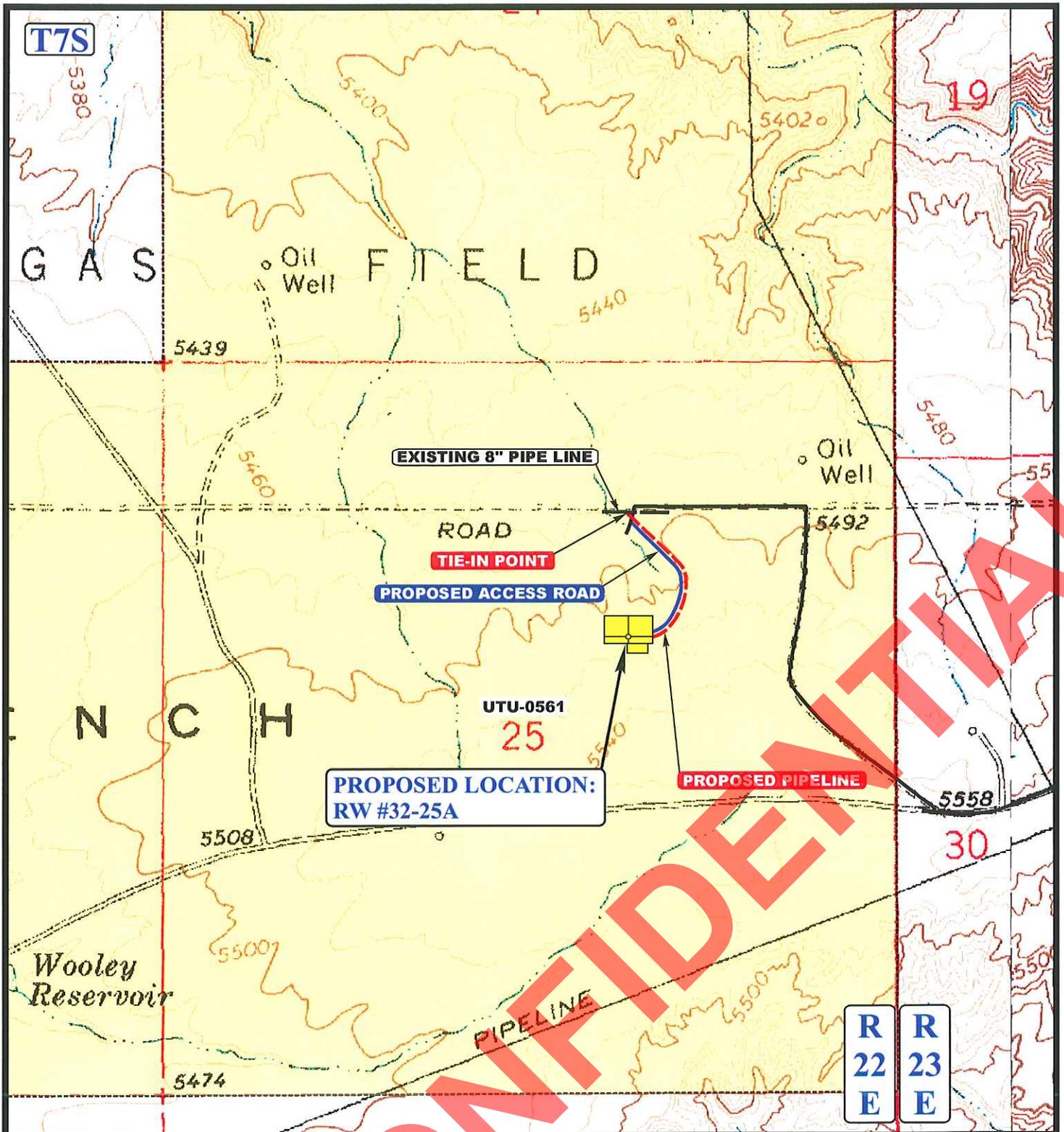
QEP ENERGY COMPANY

RW #32-25A
SECTION 25, T7S, R22E, S.L.B.&M.
1980' FNL 1925' FEL

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

ACCESS ROAD MAP **03 30 11**
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: J.J. REVISED: 00-00-00 **B TOPO**



APPROXIMATE TOTAL PIPELINE DISTANCE = 1,208' +/-

LEGEND:

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



QEP ENERGY COMPANY

RW #32-25A
 SECTION 25, T7S, R22E, S.L.B.&M.
 1980' FNL 1925' FEL



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

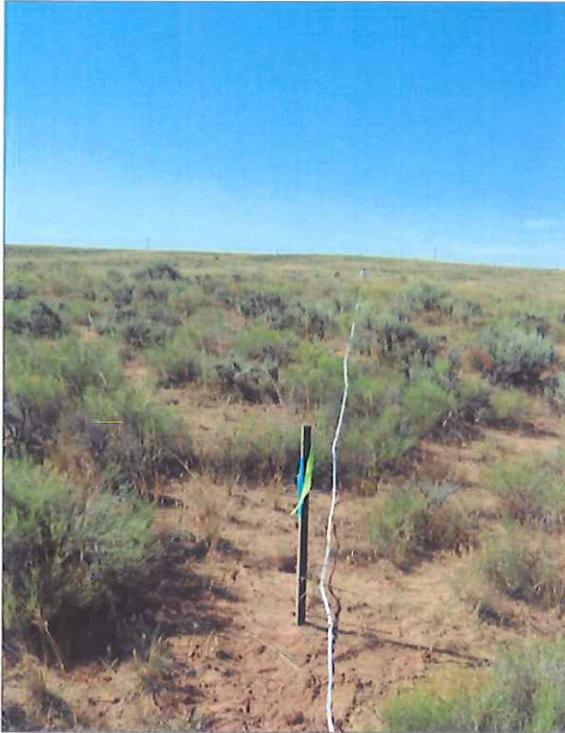
ACCESS ROAD
 MAP

04 27 11
 MONTH DAY YEAR

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



QEP ENERGY COMPANY
REFERENCE MAP: AREA OF VEGETATION
RW #32-25A
LOCATED IN UINTAH COUNTY, UTAH
SECTION 25, T7S, R22E, S.L.B.&M.

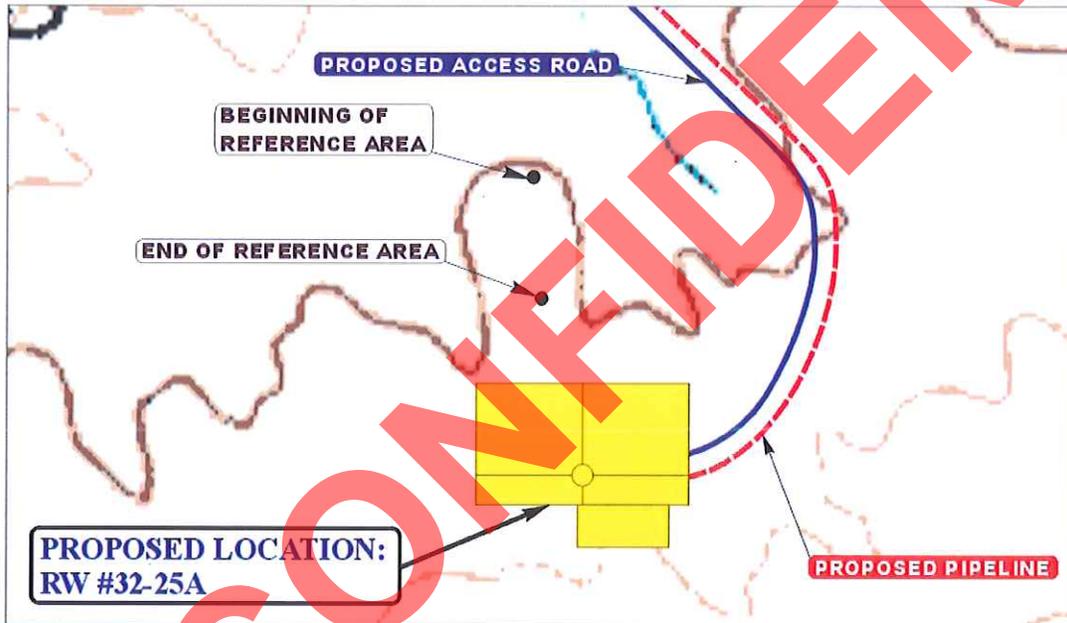


NOTE:

BEGINNING OF REFERENCE AREA
NAD 83 Z12 UTM NORTHING: 14598413.339
NAD 83 Z12 UTM EASTING: 2091192.830
(NAD 83) LATITUDE: 40.185592
(NAD 83) LONGITUDE: -109.386036

END OF REFERENCE AREA
NAD 83 Z12 UTM NORTHING: 14598215.319
NAD 83 Z12 UTM EASTING: 2091210.401
(NAD 83) LATITUDE: 40.185047
(NAD 83) LONGITUDE: -109.385986

PHOTO: VIEW FROM BEGINNING OF REFERENCE AREA



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

SCALE: 1" = 300'	07	18	11	REF.
TAKEN BY: A.F.	MONTH	DAY	YEAR	
DRAWN BY: Z.L.	REVISED: 00-00-00			

Additional Operator Remarks

QEP Energy Company proposes drill a vertical gas well to a depth of 11,612' to test the Mesa Verde Formation. If productive, casing will be run and the well completed. If dry, the well will be plugged and abandoned as per BLM and State of Utah requirements.

Please see Onshore Order No. 1.

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

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

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

CONFIDENTIAL

**QEP ENERGY COMPANY
RW 32-25A
1980' FNL 1925' FEL
SWNE SECTION 25, T7S, R22E
UINTAH COUNTY, UTAH
LEASE # UTU-0561**

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

An onsite inspection was conducted for the RW 32-25A on July 12, 2011. Weather conditions were sunny at the time of the onsite. In attendance at the inspection were the following individuals:

Kevin Sadlier	Bureau of Land Management
Aaron Roe	Bureau of Land Management
Holly Villa	Bureau of Land Management
Daniel Emmett	Bureau of Land Management
Brandon McDonald	Bureau of Land Management
Jan Nelson	QEP Energy Company
Stephanie Tomkinson	QEP Energy Company
Ryan Angus	QEP Energy Company
Valyn Davis	QEP Energy Company
Wade Hafey	QEP Field Service
Andy Floyd	Uintah Engineering & Land Surveying

1. Existing Roads:

The proposed well site is approximately 27 miles South of Vernal, Utah.

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

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

2. Planned Access Roads:

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

There will be a new access road approximately 1,017' in length, containing approximately .701 acres. The access road will be crowned and ditched with a running surface of 18 feet and a maximum disturbed width of 30'. Any additional disturbance required due to intersections or sharp curves will be discussed at the on-site and approved by the BLM/VFO AO. Graveling or capping the roadbed will be performed as necessary to provide a well constructed safe road. Should conditions warrant, rock, gravel or culverts will be installed as needed. Surface disturbance and vehicular traffic will be limited to the approved location and access route or, as proposed by the Operator.

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

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

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

Please refer to Topo Map C.

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

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

The following guidelines will apply if the well is productive.

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

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

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

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

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

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

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

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

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

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

The proposed pipeline will be a surface 10" or smaller, 1,208' in length, containing .831 acres.

Road Crossings

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

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

Prior to lowering the pipe in the trench, the Permittee will "Jeep" the pipe to locate and repair any Holidays in the pipe coating. Upon lowering the pipe in the trench,

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

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

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

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

6. **Source of Construction Materials:**

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

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

Any gravel will be obtained from a commercial source.

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

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

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

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

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

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

It will be determined at the on-site inspection if a pit liner is necessary, the reserve pit will be lined with a synthetic reinforced liner, a minimum of 20 millimeters thick,

with sufficient bedding used to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place.

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

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

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

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

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

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

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

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

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

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

8. Ancillary Facilities:

None anticipated.

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

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

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

The reserve pit.

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

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

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

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

10. Fencing Requirements:

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

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

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

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

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

Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet. All wire shall be stretched using a stretching device before it is attached to corner posts.

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

11. Plans for Reclamation of the Surface:

Please refer to QEP Energy Company Uinta Basin Division Reclamation Plan

Site Specific Procedures:

Site Specific Reclamation Summary:

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

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

The disturbed area will be backfilled with subsoil.

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

Water courses and drainages will be restored.

Erosion control devices will be installed where needed.

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

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

Monitoring and reporting will be conducted as stated in Questar's Reclamation Plan. A reference site has been established and is included in this application. A sundry notice (Form 3160.5), for the Weed Data Sheet will be filed at a later date.

It was determined and agreed upon that there is 10" inches of top soil.

12. Surface Ownership:

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

13. Other Information:

A Class III archaeological survey was conducted by Montgomery Archaeology Consultants. A copy of this report was submitted on May 10, 2011, **Moac Report No. 11-075** by Montgomery Archaeology Consultants. Cultural resource clearance was recommended for this location.

A Class III paleontological survey was conducted by Intermountain Paleo Consulting. A copy of this report was submitted on June 16, 2011 **IPC # 11-68** 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 Energy Company will provide Paleo monitor if needed.

Lessee's or Operator's Representative & Certification:

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

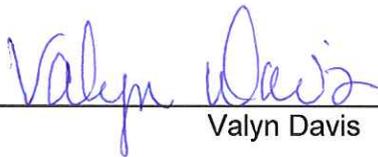
Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

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

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

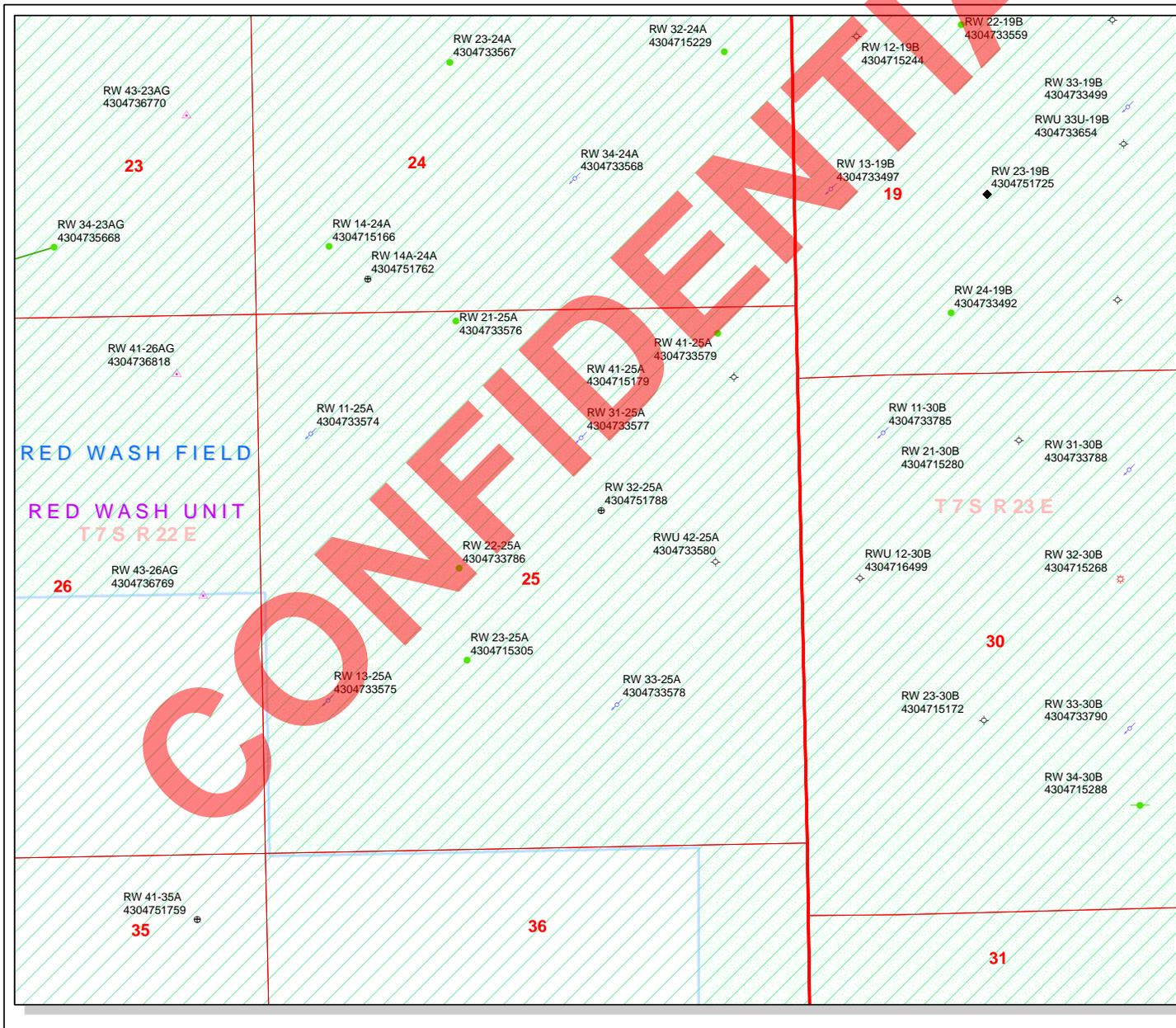
Bond coverage pursuant to 43 CFR 3104.2 for lease activities is being provided by Bond No. ESB000024

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


Valyn Davis

8/1/2011
Date

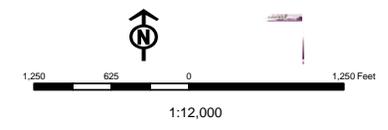
CONFIDENTIAL



API Number: 4304751788
Well Name: RW 32-25A
Township T0.7 . Range R2.2 . Section 25
Meridian: SLBM
Operator: QEP ENERGY COMPANY

Map Prepared:
 Map Produced by Diana Mason

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



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

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

IN REPLY REFER TO:

3160
(UT-922)

August 3, 2011

Memorandum

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

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

API#	WELL NAME	LOCATION
(Proposed PZ MESA VERDE)		
43-047-51762	RW 14A-24A	Sec 24 T07S R22E 0337 FSL 1084 FWL
43-047-51763	RW 34-14A	Sec 14 T07S R22E 0396 FSL 2068 FEL
43-047-51769	RW 33-20A	Sec 20 T07S R22E 1828 FSL 2333 FEL
43-047-51770	RW 8C4-19B	Sec 19 T07S R23E 2517 FNL 0822 FEL
43-047-51788	RW 32-25A	Sec 25 T07S R22E 1980 FNL 1925 FEL

Our records indicate the 33-20A is closer than 460 feet from the Red Wash Unit boundary.

We have no objections to permitting the wells so long as the unit operator receives an exception to the locating and siting requirements of the State of Utah (R649-3-2).

Michael L. Coulthard

Digitally signed by Michael L. Coulthard
DN: cn=Michael L. Coulthard, o=Bureau of Land Management,
ou=Branch of Minerals, email=Michael_Coulthard@blm.gov, c=US
Date: 2011.08.03 13:46:21 -06'00'

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

MCoulthard:mc:8-3-11

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 8/1/2011

API NO. ASSIGNED: 43047517880000

WELL NAME: RW 32-25A

OPERATOR: QEP ENERGY COMPANY (N3700)

PHONE NUMBER: 435 781-4369

CONTACT: Valyn Davis

PROPOSED LOCATION: SWNE 25 070S 220E

Permit Tech Review:

SURFACE: 1980 FNL 1925 FEL

Engineering Review:

BOTTOM: 1980 FNL 1925 FEL

Geology Review:

COUNTY: UINTAH

LATITUDE: 40.18433

LONGITUDE: -109.38508

UTM SURF EASTINGS: 637485.00

NORTHINGS: 4449256.00

FIELD NAME: RED WASH

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU0561

PROPOSED PRODUCING FORMATION(S): MESA VERDE

SURFACE OWNER: 1 - Federal

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

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

LOCATION AND SITING:

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

Comments: Presite Completed

Stipulations: 4 - Federal Approval - dmason



GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: RW 32-25A
API Well Number: 43047517880000
Lease Number: UTU0561
Surface Owner: FEDERAL
Approval Date: 8/3/2011

Issued to:

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

Authority:

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

Duration:

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

General:

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

Conditions of Approval:

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

Notification Requirements:

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

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

OR

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

Reporting Requirements:

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

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

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

Approved By:

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

For John Rogers
Associate Director, Oil & Gas

RECEIVED

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

AUG 08 2011

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		CONFIDENTIAL		5. Lease Serial No. UTU0561
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone				6. If Indian, Allottee or Tribe Name
2. Name of Operator QEP ENERGY COMPANY		Contact: VALYN DAVIS E-Mail: Valyn.Davis@qepres.com		7. If Unit or CA Agreement, Name and No. 892000761X
3a. Address 11002 EAST 17500 SOUTH VERNAL, UT 84078		3b. Phone No. (include area code) Ph: 435-781-4369 Fx: 435-781-4395		8. Lease Name and Well No. RW 32-25A
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SWNE 1980FNL 1925FEL 40.184294 N Lat, 109.385767 W Lon At proposed prod. zone SWNE 1980FNL 1925FEL 40.184294 N Lat, 109.385767 W Lon				9. API Well No. 43-047-51788
14. Distance in miles and direction from nearest town or post office* 27				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) 1925		16. No. of Acres in Lease 1920.00		11. Sec., T., R., M., or Blk. and Survey or Area Sec 25 T7S R22E Mer SLB
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 788		19. Proposed Depth 11612 MD 11612 TVD		12. County or Parish UINTAH
21. Elevations (Show whether DF, KB, RT, GL, etc.) 5509 GL		22. Approximate date work will start 01/01/2012		13. State UT
				17. Spacing Unit dedicated to this well 40.00
				20. BLM/BIA Bond No. on file ESB000024
				23. Estimated duration 30 DAYS

24. Attachments

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

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

25. Signature (Electronic Submission)	Name (Printed/Typed) VALYN DAVIS Ph: 435-781-4369	Date 08/01/2011
--	--	--------------------

Title
REGULATORY AFFAIRS ANALYST

Approved by (Signature) 	Name (Printed/Typed) Jerry Kenczka	Date JAN 17 2011
-----------------------------	--	----------------------------

Title
Assistant Field Manager
Lands & Mineral Resources

Office
VERNAL FIELD OFFICE

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

CONDITIONS OF APPROVAL ATTACHED

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

Electronic Submission #114253 verified by the BLM Well Information System
For QEP ENERGY COMPANY, sent to the Vernal
Committed to AFMSS for processing by LESLIE ROBINSON on 08/08/2011 ()

RECEIVED

JAN 27 2012

NOTICE OF APPROVAL

UDOGM DEPARTMENT OF OIL, GAS & MINING

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

11SX50714AE

NOS-6/11/2011



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

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: QEP Energy Company
Well No: RW 32-25A
API No: 43-047-51788

Location: SWNE, Sec. 25, T7S, R22E
Lease No: UTU-0561
Agreement: Red Wash

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 vehicles and equipment shall be cleaned either through power-washing, or other approved method, if the vehicles or equipment were brought in from areas outside the Uinta Basin, to prevent weed seed introduction.
- All disturbance areas shall be monitored for noxious weeds annually, for a minimum of three growing seasons following completion of project or until desirable vegetation is established.
- Reclamation will be completed in accordance with the Questar Exploration and Production Company, Uintah Basin Division's Reclamation Plan on file with the Vernal Field Office of the BLM.
- In the event historic or archaeological resources are uncovered during construction, work will stop immediately and the appropriate BLM AO will be notified.
- If paleontologic resources are uncovered during construction activities, the operator shall immediately suspend all operations that will further disturb such resources, and immediately notify the Authorized Officer (AO). The AO will arrange for a determination of significance and, if necessary, recommend a recovery or avoidance plan.
- Scientifically important fossils were found at well sites, RW 22-17B (IPC #11-22, June 3, 2011) and RW 34-14A(IPC #11-60, July 7, 2011). Due to the number of fossils found during the survey for RW-22-17B, a permitted paleontologist will be present to monitor the beginning of the construction process for the well pad, and thereafter conduct a spot monitor as determined by the permitted paleontologist. For well location RW-34-14A, a permitted paleontologist will be required to monitor all construction.
- QEP has agreed not to construct or drill during the following dates, unless otherwise approved by the BLM Authorized Officer.

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 12-29B	Yes	Yes	No	No
RW 22-17B	No	No	No	No
RW 22-22A	No	No	No	No
RW 32-25A	No	No	No	No
RW 32-29A	No	No	Yes	No
RW 33-20A	Yes	Yes	No	Yes
RW 34-14A	No	Yes	No	No
RW 41-35A	Yes	No	No	No
RW 43-13A	No	No	No	No
RW 43-19B	No	No	No	No

- All internal combustion equipment will be kept in good working order.
- Water or other approved dust suppressants will be used at construction sites and along roads, as determined appropriate by the Authorized Officer.

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

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

SITE SPECIFIC DOWNHOLE COAs:

- Production casing cement shall be brought 500' up and into the surface casing.
- For the SR sundry covering drilling operations on the first day (when the surface hole is first drilled), operator shall note in the report the volume of water in units of barrels out on location, stored in pit-tanks.

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

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB

or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to BLM_UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

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

core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

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

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU0561
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 32-25A
2. NAME OF OPERATOR: QEP ENERGY COMPANY	9. API NUMBER: 43047517880000
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: 1980 FNL 1925 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 25 Township: 07.0S Range: 22.0E 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: 8/3/2012	<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: August 06, 2012

By: 

NAME (PLEASE PRINT) Valyn Davis	PHONE NUMBER 435 781-4369	TITLE Regulatory Affairs Analyst
SIGNATURE N/A	DATE 8/2/2012	



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047517880000

API: 43047517880000

Well Name: RW 32-25A

Location: 1980 FNL 1925 FEL QTR SWNE SEC 25 TWP 070S RNG 220E MER S

Company Permit Issued to: QEP ENERGY COMPANY

Date Original Permit Issued: 8/3/2011

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

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

Signature: Valyn Davis

Date: 8/2/2012

Title: Regulatory Affairs Analyst Representing: QEP ENERGY COMPANY

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU0561
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 32-25A
2. NAME OF OPERATOR: QEP ENERGY COMPANY	9. API NUMBER: 43047517880000
3. ADDRESS OF OPERATOR: 11002 East 17500 South , Vernal, Ut, 84078	PHONE NUMBER: 303 308-3068 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1980 FNL 1925 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 25 Township: 07.0S Range: 22.0E 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: 10/15/2012 <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.

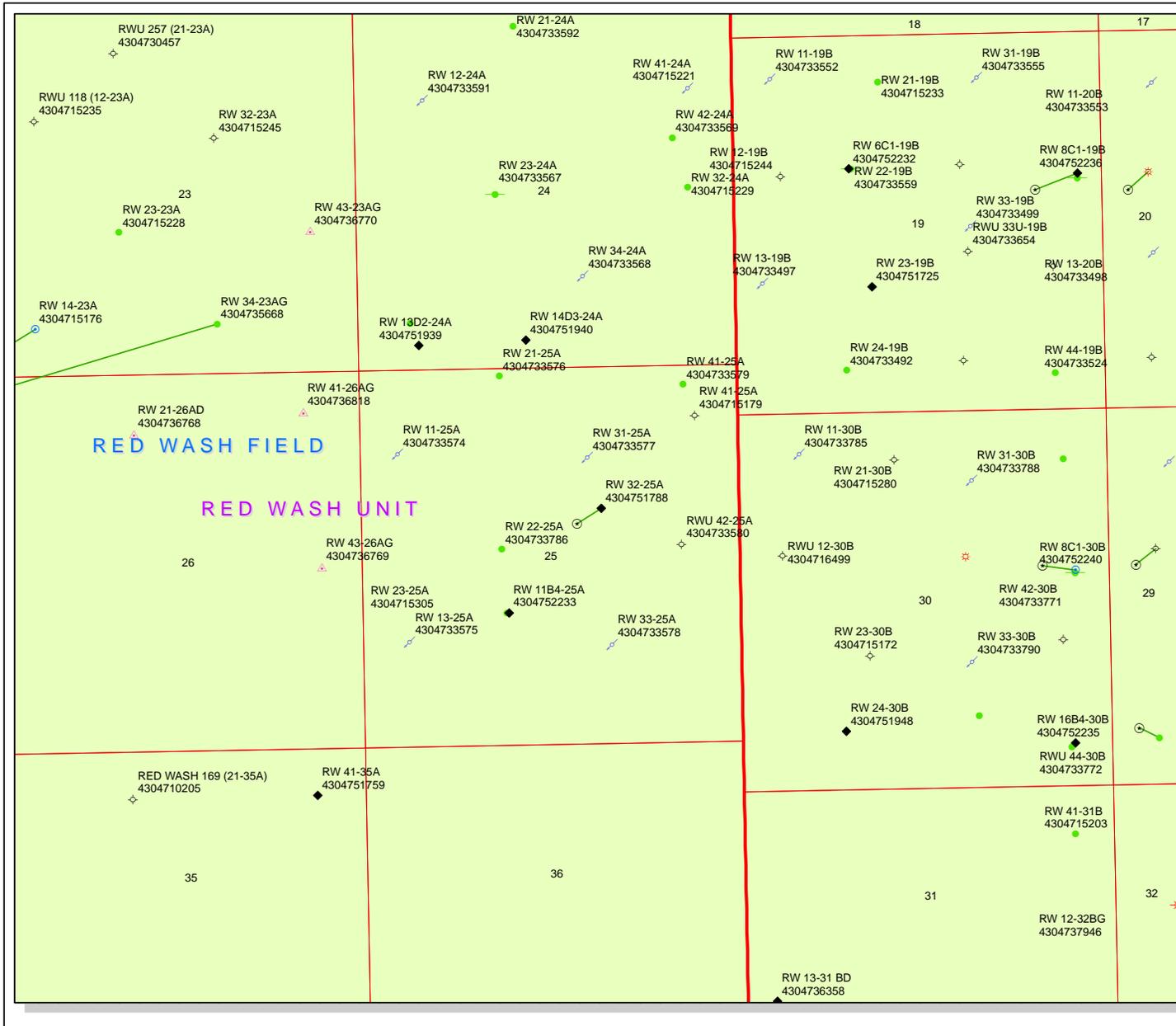
QEP ENERGY COMPANY WOULD LIKE TO OPTIMIZE THE BOTTOM HOLE SPACING OF THE MESA VERDE DEVELOPMENT, THEREFORE, QEP ENERGY COMPANY WOULD LIKE TO DRILL THIS WELL DIRECTIONALLY.

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

Date: October 22, 2012

By: 

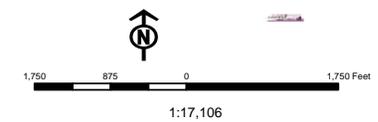
NAME (PLEASE PRINT) Valyn Davis	PHONE NUMBER 435 781-4369	TITLE Regulatory Affairs Analyst
SIGNATURE N/A	DATE 10/15/2012	



API Number: 4304751788
Well Name: RW 32-25A
Township T07.0S Range R22.0E Section 25
Meridian: SLBM
Operator: QEP ENERGY COMPANY

Map Prepared:
 Map Produced by Diana Mason

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



T7S, R22E, S.L.B.&M.

**R 22
W 23**

QEP ENERGY COMPANY

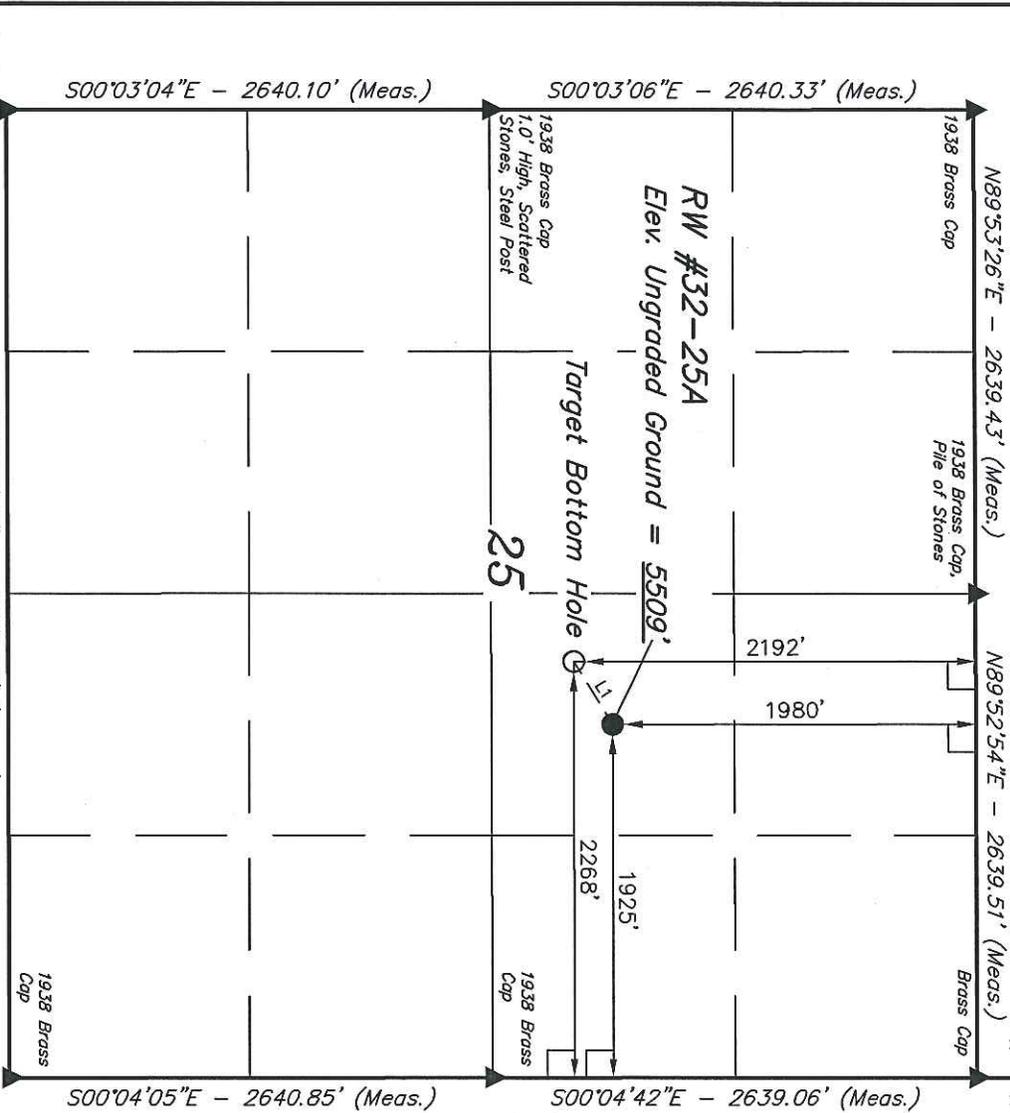
Well location, RW #32-25A, located as shown in the SW 1/4 NE 1/4 of Section 25, T7S, R22E, S.L.B.&M., Uintah County, Utah.

BASIS OF ELEVATION

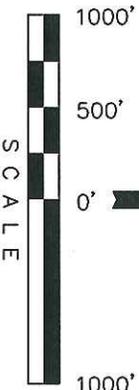
BENCH MARK 20EAM LOCATED IN THE SE 1/4 OF SECTION 35, T8S, R21E, S.L.B.&M. TAKEN FROM THE OURAY SE, QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4697 FEET.

BASIS OF BEARINGS

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



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	SS8°07'35\"W	403.62'



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.

REV: 10-09-12

ROBERT KAY
REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

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

SCALE: 1" = 1000'
DATE SURVEYED: 03-25-11
DATE DRAWN: 03-28-11

PARTY: A.F. J.C. K.O.
REFERENCES: G.L.O. PLAT
WEATHER: COLD
FILE: QEP ENERGY COMPANY

LEGEND:

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

NAD 83 (TARGET BOTTOM HOLE)		NAD 83 (SURFACE LOCATION)	
LATITUDE = 40°11'01.36" (40.183711)	LONGITUDE = 109°23'13.18" (109.386994)	LATITUDE = 40°11'03.46" (40.184294)	LONGITUDE = 109°23'08.76" (109.385767)
NAD 27 (TARGET BOTTOM HOLE)		NAD 27 (SURFACE LOCATION)	
LATITUDE = 40°11'01.49" (40.183747)	LONGITUDE = 109°23'10.72" (109.386311)	LATITUDE = 40°11'03.59" (40.184331)	LONGITUDE = 109°23'06.30" (109.385083)

1938 Brass Cap
0.8' High,
Scattered
Stones



QEP Energy Company

QEP ENERGY (UT)

**Red Wash
RW 32-25A
RW 32-25A**

Original Hole

Plan: Plan ver.0

Standard Planning Report

10 September, 2012



QEP Energy Company



QEP Resources, Inc.
Planning Report



Database:	EDMDB_QEP	Local Co-ordinate Reference:	Well RW 32-25A
Company:	QEP ENERGY (UT)	TVD Reference:	RKB @ 5522.40usft (AZTEC 950)
Project:	Red Wash	MD Reference:	RKB @ 5522.40usft (AZTEC 950)
Site:	RW 32-25A	North Reference:	True
Well:	RW 32-25A	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan ver.0		

Project	Red Wash		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Utah Central Zone		Using geodetic scale factor

Site	RW 32-25A				
Site Position:		Northing:	7,242,835.414 usft	Latitude:	40.184295
From:	Lat/Long	Easting:	2,231,047.348 usft	Longitude:	-109.385767
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	1.35 °

Well	RW 32-25A					
Well Position	+N/-S	0.00 usft	Northing:	7,242,835.410 usft	Latitude:	40.184295
	+E/-W	0.00 usft	Easting:	2,231,047.348 usft	Longitude:	-109.385767
Position Uncertainty		0.00 usft	Wellhead Elevation:	5,506.40 usft	Ground Level:	5,506.40 usft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	9/10/2012	10.89	66.01	52,317

Design	Plan ver.0			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	238.11

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,562.41	11.25	255.07	1,558.81	-14.18	-53.17	2.00	2.00	0.00	255.07	
3,291.75	11.25	255.07	3,254.93	-101.09	-379.11	0.00	0.00	0.00	0.00	
4,041.63	0.00	0.00	4,000.00	-120.00	-450.00	1.50	-1.50	0.00	180.00	
9,303.63	0.00	0.00	9,262.00	-120.00	-450.00	0.00	0.00	0.00	0.00	
9,536.97	3.50	131.00	9,495.19	-124.67	-444.62	1.50	1.50	0.00	131.00	
11,747.90	3.50	131.00	11,702.00	-213.23	-342.76	0.00	0.00	0.00	0.00	



QEP Resources, Inc.
Planning Report



Database:	EDMDB_QEP	Local Co-ordinate Reference:	Well RW 32-25A
Company:	QEP ENERGY (UT)	TVD Reference:	RKB @ 5522.40usft (AZTEC 950)
Project:	Red Wash	MD Reference:	RKB @ 5522.40usft (AZTEC 950)
Site:	RW 32-25A	North Reference:	True
Well:	RW 32-25A	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan ver.0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,562.41	11.25	255.07	1,558.81	-14.18	-53.17	52.64	2.00	2.00	0.00	0.00
3,291.75	11.25	255.07	3,254.93	-101.09	-379.11	375.30	0.00	0.00	0.00	0.00
4,041.63	0.00	0.00	4,000.00	-120.00	-450.00	445.48	1.50	-1.50	0.00	0.00
9,303.63	0.00	0.00	9,262.00	-120.00	-450.00	445.48	0.00	0.00	0.00	0.00
9,536.97	3.50	131.00	9,495.19	-124.67	-444.62	443.39	1.50	1.50	0.00	0.00
11,747.90	3.50	131.00	11,702.00	-213.23	-342.76	403.67	0.00	0.00	0.00	0.00

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
RW 32-25A (7C1-25A)	0.00	0.00	9,262.00	-168.25	-394.77	7,242,657.891	2,230,656.697	40,183833	-109,387180	
- hit/miss target										
- Shape										
- plan misses target center by 73.37usft at 9305.87usft MD (9264.24 TVD, -120.00 N, -450.00 E)										
- Circle (radius 150.00)										

Casing Points						
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")		
4,116.63	4,075.00	9 5/8"	9-5/8	12-1/4		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,120.54	3,087.00	Green River		0.00		
4,063.63	4,022.00	Mahog. Bench		0.00		
6,643.63	6,602.00	Wasatch		0.00		
9,303.63	9,262.00	Mesaverde		0.00		
11,647.71	11,602.00	Sego		0.00		

Company Name: QEP ENERGY (UT)

Project: Red Wash
 Site: RW 32-25A
 Wellbore: Original Hole
 Design: Plan ver.0

Accuracy to True North
 Magnetic North: 10.8°
 Magnetic Field
 Strength: 52.75 uT
 Date: 9/10/2012
 Model: ICRF2010

WELL DETAILS: RW 32-25A

Ground Level: 5506.40
 Slot

+N/-S 0.00 +E/AW 0.00 Northing 7242835.410 Easting 2231047.348 Longitude -109.385767

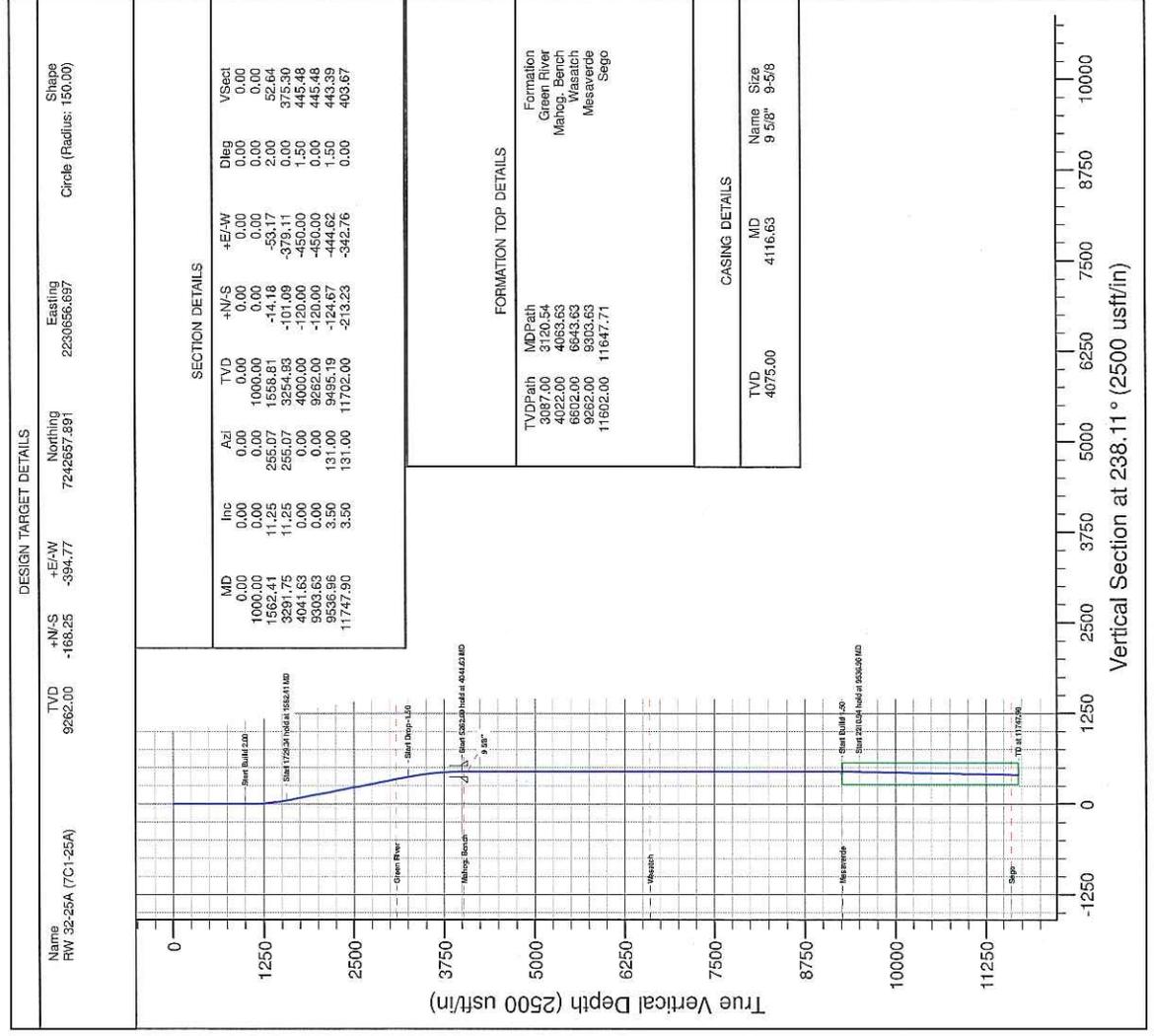
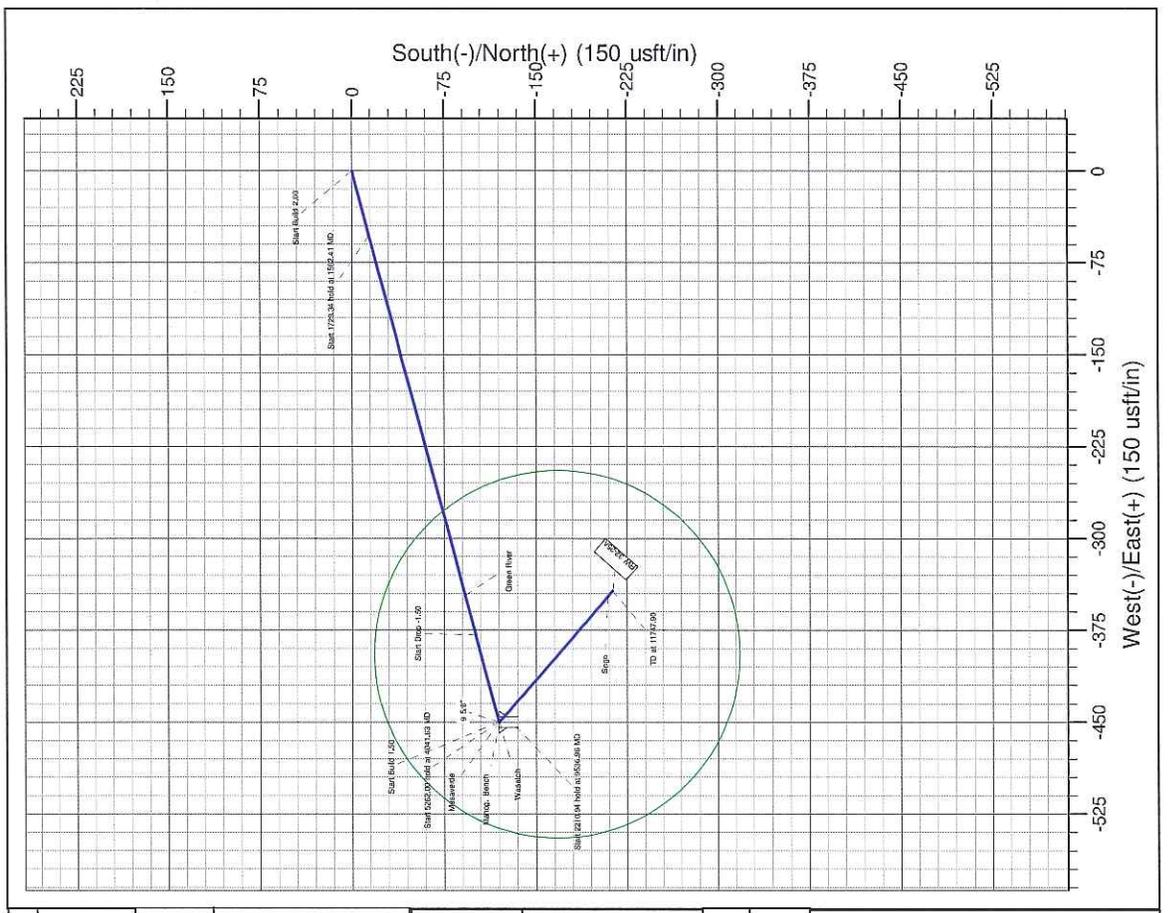
+N/-S 0.00 +E/AW 0.00 Northing 7242657.891 Easting 2230656.697

PROJECT DETAILS: Red Wash

Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: Utah Central Zone
 System Datum: Mean Sea Level

REFERENCE INFORMATION

Co-ordinate (N/E): Well RW 32-25A, True North
 Vertical (TVD) Reference: RKB @ 5522.40usft (KZTEC 950)
 Section (YS) Reference: RKB @ 5522.40usft (KZTEC 950)
 Measured Depth Reference: RKB @ 5522.40usft (KZTEC 950)
 Calculation Method: Minimum Curvature





QEP Energy Company

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

October 15, 2012

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

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

RW 32-25A

1980' FNL 1925' FEL, SWNE, Section 25, T7S, R22E (Surface)

2192' FNL 2268' FEL, SWNE, Section 25, T7S, R22E (Bottom Hole)

Uintah County, Utah

Dear Ms. Mason:

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

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

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

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

Sincerely,

QEP Energy Company

A handwritten signature in blue ink that reads 'Valyn Davis'. The signature is written in a cursive, flowing style.

Valyn Davis
Regulatory Affairs Analyst

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
5.LEASE DESIGNATION AND SERIAL NUMBER: UTU0561	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
7.UNIT or CA AGREEMENT NAME: RED WASH	
8. WELL NAME and NUMBER: RW 32-25A	
9. API NUMBER: 43047517880000	
9. FIELD and POOL or WILDCAT: RED WASH	
COUNTY: UINTAH	
STATE: UTAH	

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	
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: 1980 FNL 1925 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 25 Township: 07.0S Range: 22.0E 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: 8/3/2014	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input checked="" type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

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

Approved by the Utah Division of Oil, Gas and Mining

Date: July 31, 2013

By:

NAME (PLEASE PRINT) Valyn Davis	PHONE NUMBER 435 781-4369	TITLE Regulatory Affairs Analyst
SIGNATURE N/A	DATE 7/30/2013	



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 43047517880000

API: 43047517880000

Well Name: RW 32-25A

Location: 1980 FNL 1925 FEL QTR SWNE SEC 25 TWNP 070S RNG 220E MER S

Company Permit Issued to: QEP ENERGY COMPANY

Date Original Permit Issued: 8/3/2011

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

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

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

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

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

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

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

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

Signature: Valyn Davis

Date: 7/30/2013

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: UTU0561
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 32-25A
2. NAME OF OPERATOR: QEP ENERGY COMPANY	9. API NUMBER: 43047517880000
3. ADDRESS OF OPERATOR: 11002 East 17500 South , Vernal, Ut, 84078	PHONE NUMBER: 303 308-3068 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1980 FNL 1925 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 25 Township: 07.0S Range: 22.0E 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: 11/20/2013 <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 32-25A FROM A DIRECTIONAL GAS WELL TO A HORIZONTAL GAS WELL. NEW BOTTOM HOLE FOOTAGES ARE: 1510' FNL, 382' FWL, SEC. 1, SWNW, T8S, R22E, LAT: 40.156608, LONG: 109.396422 NO ADDITIONAL SURFACE DISTURBANCE IS REQUIRED FOR THIS ACTION. QEP ENERGY COMPANY REQUESTS THIS WELL BE FILED AS "CONFIDENTIAL". PLEASE SEE ATTACHED: LEGAL PLAT, DRILL PLANS, DIRECTIONAL PLANS.

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

Date: November 26, 2013

By: 

NAME (PLEASE PRINT) Valyn Davis	PHONE NUMBER 435 781-4369	TITLE Regulatory Affairs Analyst
SIGNATURE N/A	DATE 11/20/2013	

T7S, R22E, S.L.B.&M.

NW Cor. Sec. 19
Brass Cap

QEP ENERGY COMPANY

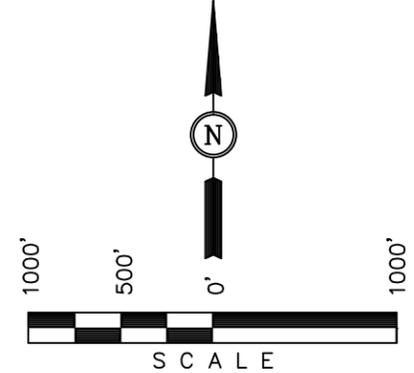
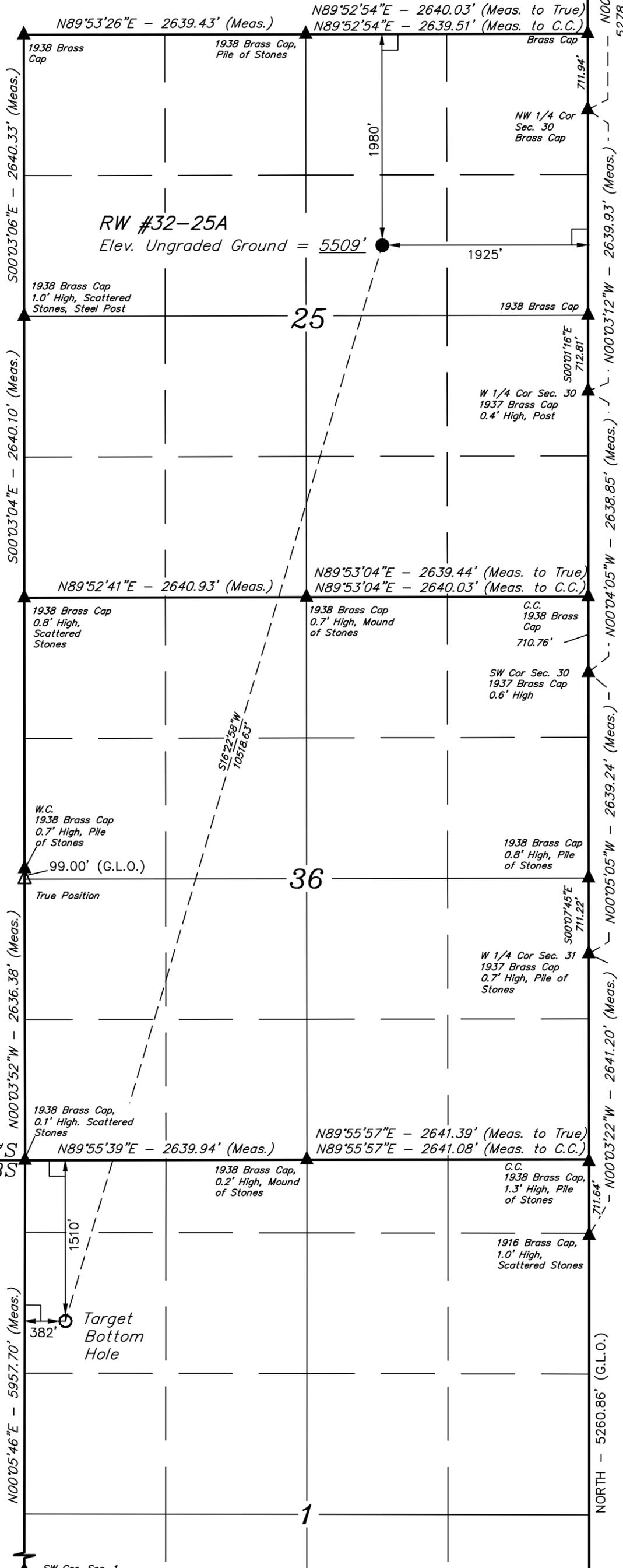
Well location, RW #32-25A, located as shown in the SW 1/4 NE 1/4 of Section 25, T7S, R22E, S.L.B.&M., Uintah County, Utah.

BASIS OF ELEVATION

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

BASIS OF BEARINGS

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

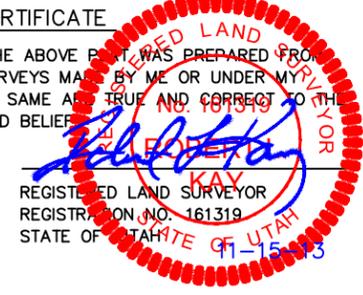


LEGEND:

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.
- △ = SECTION CORNERS RE-ESTABLISHED. (Not Set on Ground.)

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.



REVISED: 11-12-13 S.S.

NAD 83 (TARGET BOTTOM HOLE)	NAD 83 (SURFACE LOCATION)
LATITUDE = 40°09'23.79" (40.156608)	LATITUDE = 40°11'03.46" (40.184294)
LONGITUDE = 109°23'47.12" (109.396422)	LONGITUDE = 109°23'08.76" (109.385767)
NAD 27 (TARGET BOTTOM HOLE)	NAD 27 (SURFACE LOCATION)
LATITUDE = 40°09'23.92" (40.156644)	LATITUDE = 40°11'03.59" (40.184331)
LONGITUDE = 109°23'44.66" (109.395739)	LONGITUDE = 109°23'06.30" (109.385083)
STATE PLANE NAD 83	STATE PLANE NAD 83
N: 7232683.32 E: 2228308.32	N: 7242835.64 E: 2231047.08

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

SCALE 1" = 1000'	DATE SURVEYED: 12-24-12	DATE DRAWN: 12-26-12
PARTY N.F. B.H. J.W.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE QEP ENERGY COMPANY	

QEP Energy Company

RW 32-25A

Summarized New Drill Lower Mesa Verde Horizontal Procedure

1. MIRU drilling rig.
2. Drill 12-1/4" hole to 4,091'.
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 11,037'.
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 11,907'.
12. Cement casing.
13. PU 4" DP and lateral assembly.
14. Drill out cement.
15. Drill ~9,987' of lateral at ~196.45° 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 21,894'.
17. Cement casing.
18. ND BOP's.
19. RDMOL.

ONSHORE OIL & GAS ORDER NO. 1
 QEP ENERGY COMPANY
 RW 32-25A

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	3,079'	3,079'
Bird's Nest	3,496'	3,496'
Mahogany	4,041'	4,041'
Base of Mod Saline	5,436'	5,436'
Wasatch	6,596'	6,596'
Mesaverde	9,264'	9,264'
Kick Off Point	11,037'	11,037'
TD	12,132'	21,894'

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	3,079'	3,079'
Oil/Gas	Wasatch	6,596'	6,596'
Oil/Gas	Mesaverde	9,264'	9,264'

ONSHORE OIL & GAS ORDER NO. 1
QEP ENERGY COMPANY
RW 32-25A

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 32-25A

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	4,091'	40.0	N-80	LTC	New	8.8-9.3ppg
8 3/4"	7"	sfc	11,907'	29.0	P-110HC	LTC	New	9-10.5 ppg
6 1/8"	4 1/2"	sfc	21,894'	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 – 4,091' (MD)

Lead Slurry: Surface (TOC) – 3,591'. 631 sks (1,969 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: 3,591' – 4,091'. 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 – 11,907' (MD)

Lead: Sfc – 8,764' 586 sks (1,702 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

ONSHORE OIL & GAS ORDER NO. 1
QEP ENERGY COMPANY
RW 32-25A

Tail Slurry: 8,764' – 11,907'. 476 sks (709 cu ft) Halliburton EXPANDACEM V3 + 0.2% HR-800 (Retarder) + 0.125 lbm/sk Poly-E-Flake (LCM) + 1 lbm/sk Granulite TR ¼ (LCm). Slurry wt: 13.5 ppg, Slurry yield: 1.49 ft³/sk, with 50% excess.

4-1/2" Production Casing: sfc – 21,844' (MD)

Lead: Sfc – 8,764' 352 sks (860 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: 8,764' – 21,844'. 1,181 sks (1,771 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/sk, 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.

ONSHORE OIL & GAS ORDER NO. 1
QEP ENERGY COMPANY
RW 32-25A

- d. Formation and completion interval: Lower Mesa Verde. Stimulation: stimulation will be designed for the particular area of interest encountered.

8. Anticipated Abnormal Pressures and Temperatures, Other Potential Hazards

No abnormal temperatures or pressures are anticipated.

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

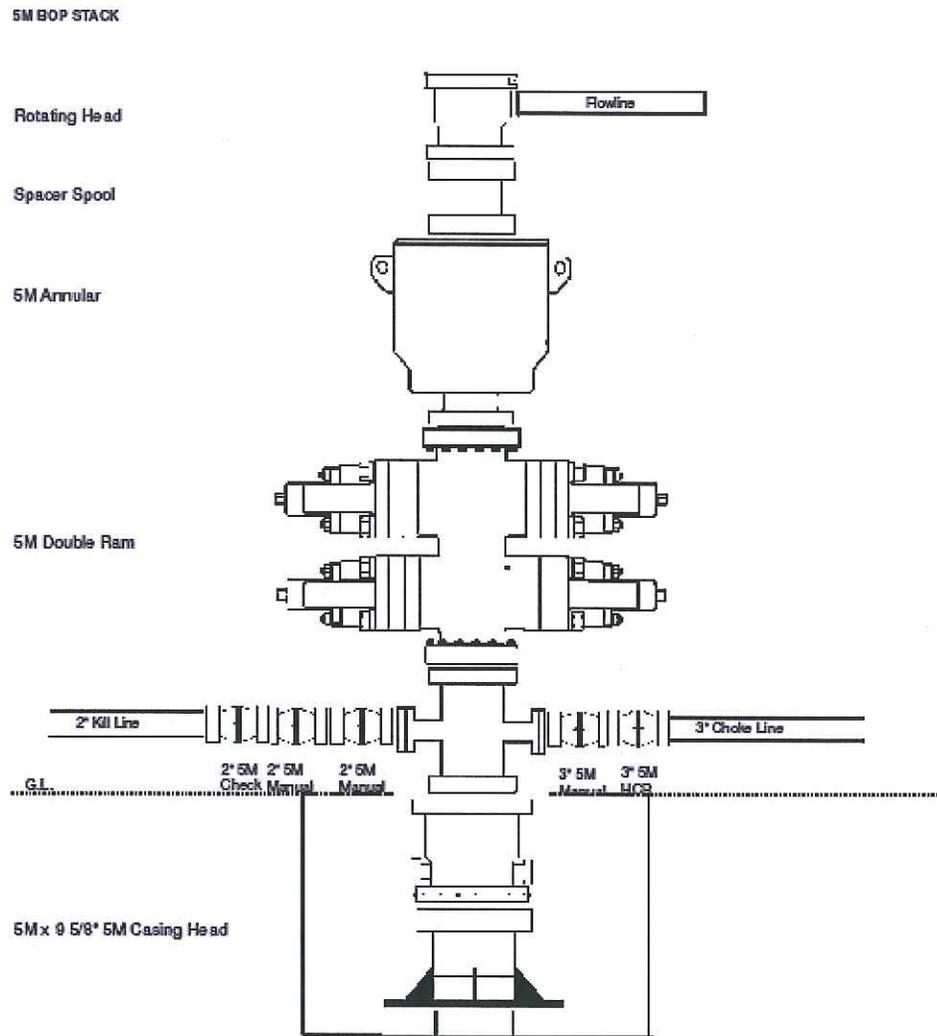
- A. A reserve pit will be constructed for this location. This pit will be constructed so that a minimum of two vertical feet of freeboard exists above the top of the pit at all times and at least one-half of the holding capacity will be below ground level. The pit will be lined with a synthetic reinforced 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

ONSHORE OIL & GAS ORDER NO. 1
QEP ENERGY COMPANY
RW 32-25A

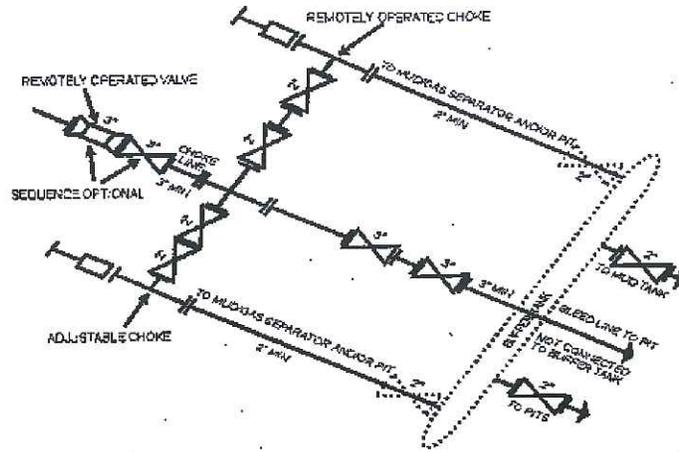
system will be enclosed on the solids control end to prevent spills. The conveyance piping system at the cuttings pit end will be placed on top of pit liner to eliminate absorption of fluids into the soil.

- 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 32-25A



ONSHORE OIL & GAS ORDER NO. 1
QEP ENERGY COMPANY
RW 32-25A



5M CHOKES MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY

Although not required for any of the choke manifold systems, buffer tanks are sometimes installed downstream of the choke assemblies for the purpose of manifolded the bleed lines together. When buffer tanks are employed, valves shall be installed upstream to isolate a failure or malfunction without interrupting flow control. Though not shown on 2M, 3M, 10M, CR 1594 drawings, it would also be applicable to those situations.

[54 FR 39528, Sept. 27, 1989]

RW 32-25A

Updated 11-20-2013 CRA

Proposed WBD

Uinta Basin

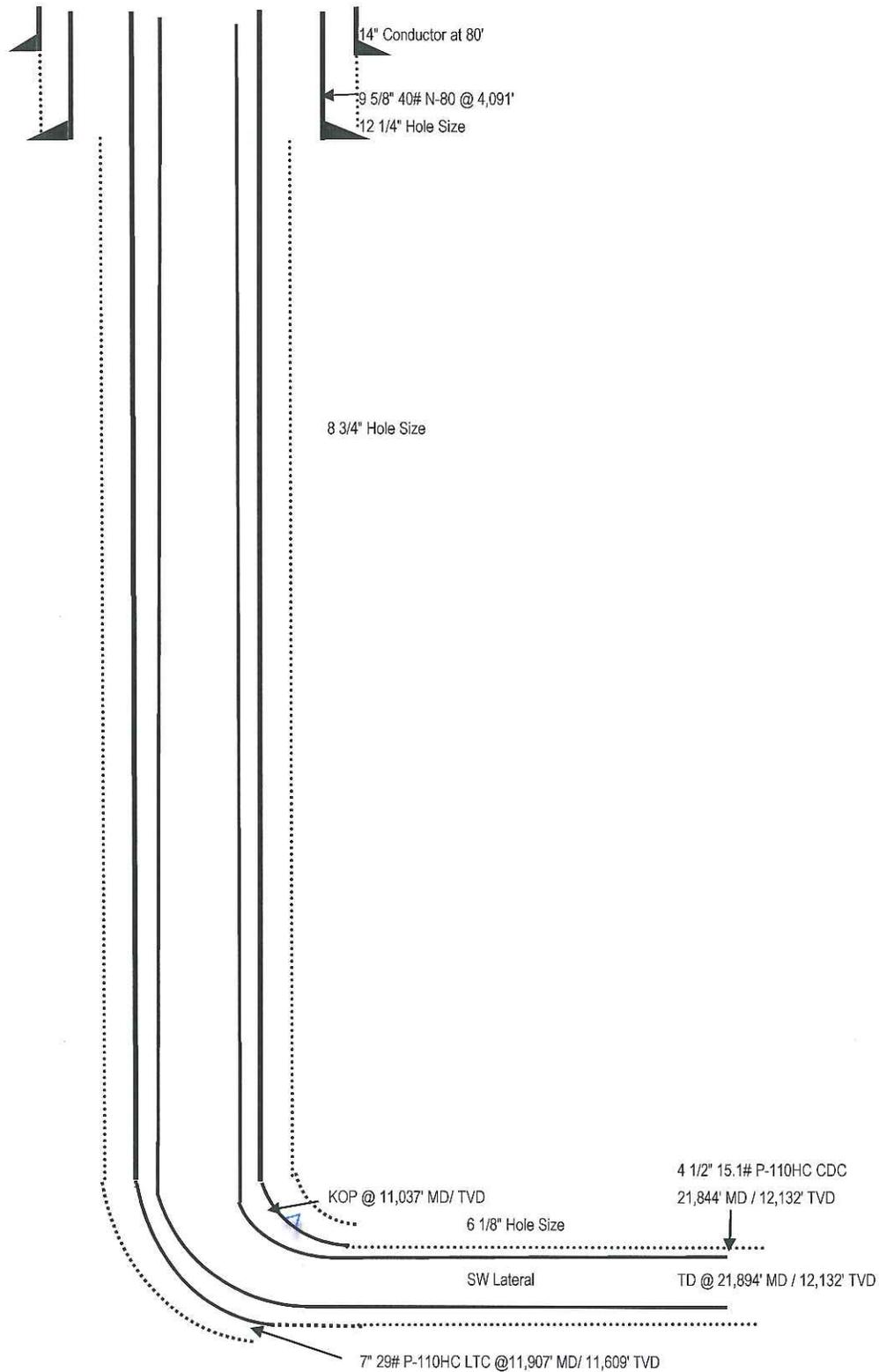
SHL: Sec 25-T7S-R22E, Uintah County, UT

BHL: Sec 01-T8S-R22E, Uintah County, UT

KB: 5,535'

GL: 5,505'

NOTE: NOT TO SCALE





QEP Energy Company

QEP ENERGY (UT)

**Red Wash
RW 32-25A
RW 32-25A**

Original Hole

Plan: Plan ver.2

Standard Planning Report

18 November, 2013





QEP Resources, Inc.
Planning Report



Database:	Compass	Local Co-ordinate Reference:	Well RW 32-25A
Company:	QEP ENERGY (UT)	TVD Reference:	RKB @ 5536.40usft (SST 88)
Project:	Red Wash	MD Reference:	RKB @ 5536.40usft (SST 88)
Site:	RW 32-25A	North Reference:	True
Well:	RW 32-25A	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan ver.2		

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 32-25A				
Site Position:		Northing:	7,242,835.414 usft	Latitude:	40.184295
From:	Lat/Long	Easting:	2,231,047.348 usft	Longitude:	-109.385767
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	1.35 °

Well	RW 32-25A					
Well Position	+N/-S	0.23 usft	Northing:	7,242,835.640 usft	Latitude:	40.184295
	+E/-W	-0.26 usft	Easting:	2,231,047.080 usft	Longitude:	-109.385768
Position Uncertainty		0.00 usft	Wellhead Elevation:	5,506.40 usft	Ground Level:	5,506.40 usft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	9/10/2012	10.89	66.01	52,317

Design	Plan ver.2			
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	196.45

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		
11,037.29	0.00	0.00	11,037.29	0.00	0.00	0.00	0.00	0.00	0.00		
11,907.29	87.00	196.45	11,609.46	-520.74	-153.77	10.00	10.00	0.00	196.45		
21,894.12	87.00	196.45	12,132.13	-10,085.59	-2,978.19	0.00	0.00	0.00	0.00	RW 32-25A	

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	
11,037.29	0.00	0.00	11,037.29	0.00	0.00	0.00	0.00	0.00	0.00	
11,907.29	87.00	196.45	11,609.46	-520.74	-153.77	542.97	10.00	10.00	0.00	
21,894.12	87.00	196.45	12,132.13	-10,085.59	-2,978.19	10,516.12	0.00	0.00	0.00	



QEP Resources, Inc.
Planning Report



Database:	Compass	Local Co-ordinate Reference:	Well RW 32-25A
Company:	QEP ENERGY (UT)	TVD Reference:	RKB @ 5536.40usft (SST 88)
Project:	Red Wash	MD Reference:	RKB @ 5536.40usft (SST 88)
Site:	RW 32-25A	North Reference:	True
Well:	RW 32-25A	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan ver.2		

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 32-25A	0.00	0.00	12,132.13	-10,085.59	-2,978.19	7,232,683.320	2,228,308.320	40.156610	-109.396423
- plan hits target center									
- Point									

Casing Points					
Measured Depth	Vertical Depth	Name	Casing Diameter	Hole Diameter	
(usft)	(usft)		(")	(")	
4,091.00	4,091.00	9 5/8"	9-5/8	12-1/4	
11,907.29	11,609.46	7"	7	8-3/4	
21,894.12	12,132.13	4 1/2"	4-1/2	6-1/8	

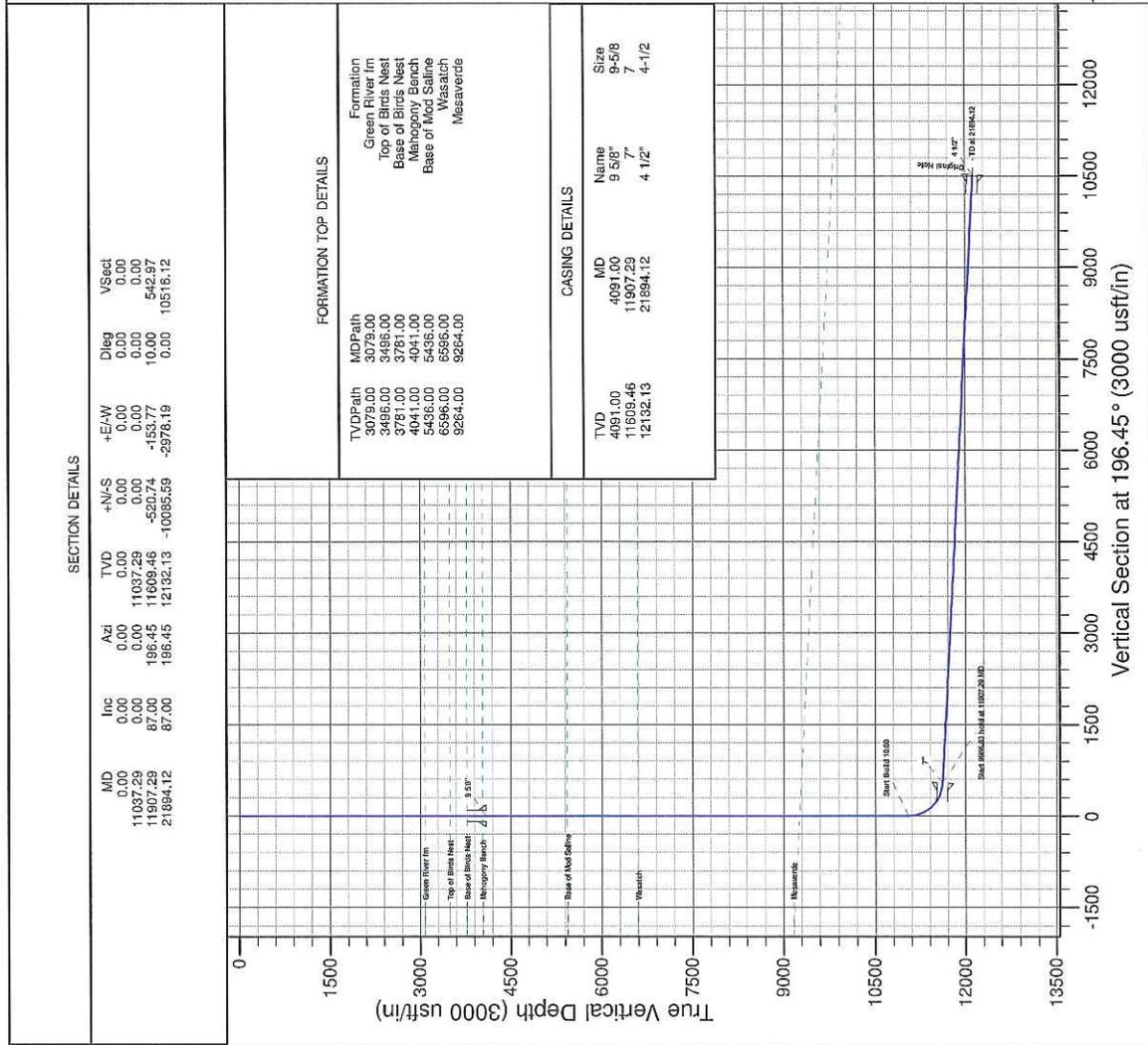
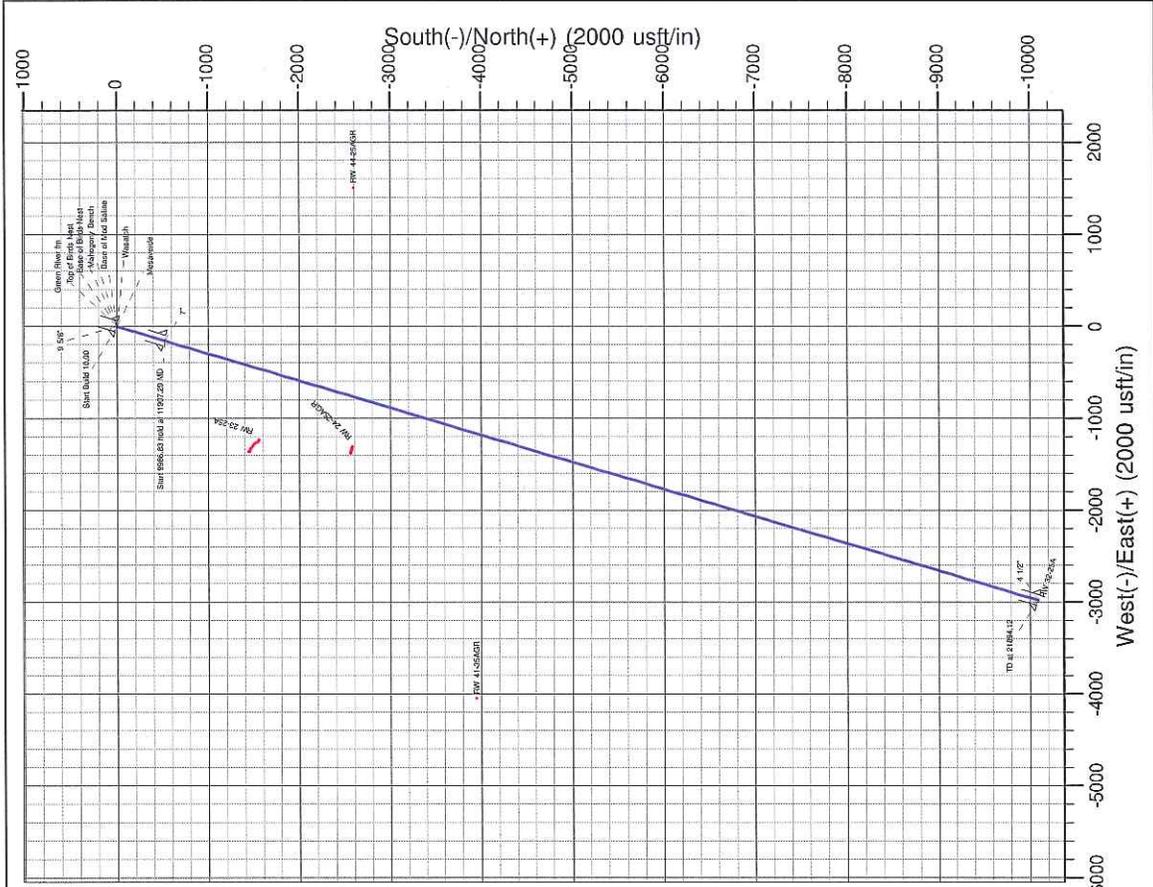
Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(usft)	(usft)			(°)	(°)	
3,079.00	3,079.00	Green River fm		0.00		
3,496.00	3,496.00	Top of Birds Nest		0.00		
3,781.00	3,781.00	Base of Birds Nest		0.00		
4,041.00	4,041.00	Mahogany Bench		0.00		
5,436.00	5,436.00	Base of Mod Saline		0.00		
6,596.00	6,596.00	Wasatch				
9,264.00	9,264.00	Mesaverde		3.00	196.45	

Project: Red Wash
 Site: RW 32-25A
 Well: RW 32-25A
 Wellbore: Original Hole
 Design: Plan View

Company Name: QEP ENERGY (UT)



<p>WELL DETAILS: RW 32-25A Original Hole</p> <p>Ground Level: 5505.40 40.184285</p> <p>+N/-S 0.00 +E/-W 0.00 Northing 7242835.640 Easting 2237047.080</p> <p>Longitude -109.385768 Latitude 40.184285</p> <p style="text-align: right;">Slot</p>	<p>PROJECT DETAILS: Red Wash</p> <p>Ceodetic System: US State Plane 1983 Datum: North American Datum 1983 Ellipsoid: GRS 1980 Zone: Utah Central Zone</p> <p>System Datum: Mean Sea Level</p>
<p>REFERENCE INFORMATION</p> <p>Co-ordinate (N/E) Reference: Well RW 32-25A, True North Vertical (TVD) Reference: RKB @ 5536.40usft (SST 88) Section (VS) Reference: Stat - (0.00N, 0.00E) Measured Depth Reference: RKB @ 5536.40usft (SST 88) Calculation Method: Minimum Curvature</p>	



SECTION DETAILS					
MD	Incl	Azi	+N/-S	+E/-W	VSect
0.00	0.00	0.00	0.00	0.00	0.00
11037.29	0.00	11037.29	0.00	0.00	0.00
1197.29	87.00	196.45	-520.74	-153.77	10.00
21094.12	87.00	196.45	-10065.59	-2978.19	0.00
					10516.12

FORMATION TOP DETAILS	
MDPath	Formation
3079.00	Green River Im
3496.00	Top of Birds Nest
3781.00	Base of Birds Nest
4041.00	Mahogany Bench
5436.00	Base of Mod Saline
6596.00	Wasatch
9264.00	Mesaverde

CASING DETAILS			
TVD	MD	Name	Size
4091.00	4091.00	9 5/8"	9-5/8
11603.46	11907.29	7"	7
12132.13	21694.12	4 1/2"	4-1/2

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	
5. LEASE DESIGNATION AND SERIAL NUMBER: UTU0561	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT or CA AGREEMENT NAME: RED WASH	8. WELL NAME and NUMBER: RW 32-25A
1. TYPE OF WELL Gas Well	9. API NUMBER: 43047517880000
2. NAME OF OPERATOR: QEP ENERGY COMPANY	9. FIELD and POOL or WILDCAT: RED WASH
3. ADDRESS OF OPERATOR: 11002 East 17500 South , Vernal, Ut, 84078	PHONE NUMBER: 303 308-3068 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1980 FNL 1925 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 25 Township: 07.0S Range: 22.0E Meridian: S	COUNTY: UINTAH STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 1/3/2014	<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 1/3/2014- QEP ENERGY COMPANY SET 80' OF 14" CONDUCTOR PIPE AND CEMENTED WITH READY MIX.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 January 06, 2014

NAME (PLEASE PRINT) Valyn Davis	PHONE NUMBER 435 781-4369	TITLE Regulatory Affairs Analyst
SIGNATURE N/A	DATE 1/6/2014	

CONFIDENTIAL

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 32-25A
Qtr/Qtr SWNE Section 25 Township 7S Range 22E
Lease Serial Number UTU-0561
API Number 43-047-51788

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 6/29/2014 05:00 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 BE RUNNING 7" INTERMEDIATE CASING AND CEMENTING. ON SST 88 6/29/2014 @ 05:00 HRS.

CONFIDENTIAL

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 32-25A
Qtr/Qtr SWNE Section 25 Township 7S Range 22E
Lease Serial Number UTU-0561
API Number 43-047-51788

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 8/30/2014 12:30 AM PM

BOPE

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

Date/Time _ _____ AM PM

Remarks WE WILL BE RUNNING 4.5" PRODUCTION CASING AND CEMENTING. ON SST 88 8/30/2014 @ 12:30 HRS.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU0561
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL Gas Well		7. UNIT or CA AGREEMENT NAME: RED WASH
2. NAME OF OPERATOR: QEP ENERGY COMPANY		8. WELL NAME and NUMBER: RW 32-25A
3. ADDRESS OF OPERATOR: 11002 East 17500 South , Vernal, Ut, 84078		9. API NUMBER: 43047517880000
PHONE NUMBER: 303 308-3068 Ext		9. FIELD and POOL or WILDCAT: RED WASH
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1980 FNL 1925 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 25 Township: 07.0S Range: 22.0E 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: 10/3/2014	<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 style="width: 100px;" type="text"/>

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

THIS WELL COMMENCED PRODUCTION ON OCTOBER 3, 2014 @ 8:51
A.M.

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
October 06, 2014**

NAME (PLEASE PRINT) Valyn Davis	PHONE NUMBER 435 781-4369	TITLE Regulatory Affairs Analyst
SIGNATURE N/A	DATE 10/6/2014	

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

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU0561
b. TYPE OF WORK: NEW WELL <input checked="" type="checkbox"/> HORIZ. LATS. <input type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR: QEP ENERGY COMPANY		7. UNIT or CA AGREEMENT NAME RED WASH
3. ADDRESS OF OPERATOR: 11002 E. 17500 S. CITY VERNAL STATE UT ZIP 84078		8. WELL NAME and NUMBER: RW 32-25A
PHONE NUMBER: (435) 781-4320		9. API NUMBER: 4304751788
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: SEC. 25, T7S, R22E, SWNE, 1980' FNL, 199		10 FIELD AND POOL, OR WILDCAT RED WASH
AT TOP PRODUCING INTERVAL REPORTED BELOW: SEC. 25, T7S, R22E, SWNE, 1980' FNL, 1925		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNE 25 7S 22E
AT TOTAL DEPTH: SEC. 1, T8S, R22E, NWNW, 548' FNL, 692' FNL		12. COUNTY UINTAH
14. DATE SPUDDED: 1/3/2014		13. STATE UTAH
15. DATE T.D. REACHED: 8/28/2014	16. DATE COMPLETED: 9/20/2014	17. ELEVATIONS (DF, RKB, RT, GL): 5509' GL
18. TOTAL DEPTH: MD 20,900 TVD 11,548		20. IF MULTIPLE COMPLETIONS, HOW MANY? *
19. PLUG BACK T.D.: MD TVD		21. DEPTH BRIDGE MD PLUG SET: TVD
22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) TRIPLE COMBO, CBL		23. WAS WELL CORED? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> (Submit copy)

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

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
12.25	9.625 N80	40	0	4,104		990	450	0	
8.75	7 HCP	29	0	12,001		1,379	382		
6.125	4.5 Q12	15.1	12,011	20,900		1,269	416		

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	11,680							

26. PRODUCING INTERVALS					27. PERFORATION RECORD				
FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS	
(A) MESA VERDE	11,673	20,752			11,673 20,752	.42	1,770	Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
(B)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
11,673 - 20,752	167,250 BBLS SLICKWATER & DELTA 200
	393,378 LBS 100 MESH SAND
	46,321,188 LBS 30/50 SAND

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

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 10/3/2014		TEST DATE: 10/15/2014		HOURS TESTED: 24		TEST PRODUCTION RATES: →	OIL - BBL: 157	GAS - MCF: 5,344	WATER - BBL: 3,377	PROD. METHOD: EPU
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL: 157	GAS - MCF: 5,344	WATER - BBL: 3,377	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	3,063
				MAHOGANY MARKER	4,104
				WASATCH	6,490
				MESA VERDE	9,157
				SEGO	11,917

35. ADDITIONAL REMARKS (Include plugging procedure)

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

NAME (PLEASE PRINT) BENNA MUTH

TITLE REGULATORY ASSISTANT - CONTRACT

SIGNATURE *Benna Muth*

DATE 10/20/2014

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
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340
Fax: 801-359-3940



Daily Activity and Cost Summary

Well Name: RW 32-25A

API 43-047-51788		Surface Legal Location S25-T7S-R22E		Field Name RED WASH		County UINTAH		State UTAH		Well Configuration Type Horizontal	
Unique Well ID UT101923		Ground Elevation (ft) 5,509		Casing Flange Elevation (ft) 5,509.00		Current KB to GL (ft) 30.00		KB to CF (ft) 30.00		Spud Date 1/3/2014 12:00	
Dry Hole TD Date 9/3/2014 18:00		Job Category DRILLING		Primary Job Type AFE - DRL-DR (Drilling)		Secondary Job Type		Objective			
Start Date 6/9/2014						Job End Date 9/26/2014					
Purpose											
Summary											
Contractor Pete Martin Drilling				RIG PETE MARTIN 1				Rig Type BUCKET RIG			
Contractor SST Energy				RIG SST 88				Rig Type TOP DRIVE			
RPT #	Start Date	Summary									
1	6/9/2014	MOVE RIG WITH WESTROC TRUCKING									
2	6/10/2014	MOVE RIG WITH WESTROC TRUCKING									
3	6/11/2014	FINISH SETTING IN BACK YARD, INSTALL SPREADERS IN SUB, SET DRAWWORKS AND DOGHOUSE ON FLOOR, SET AND PIN DERRICK ON SUB, STRING UP BLOCKS, SET IN OBM FARM, SET GAS BUSTER CHOKE HOUSE AND BUSTER LINES									
4	6/12/2014	FINISH INTALLING NEW BOARD ON DERRICK,READY DERRICK AND RAISE,RIG FLOOR AND TOP DRIVE, FINISH RIGGING UP BACK YARD, TOP DRIVE QUARTLY INSPECTION PRE SPUD INSPECTION									
5	6/13/2014	FINISH RIGGING UP, MAKE UP BIT AND MOTOR, DRILL TO 213', T.O.O.H AND PICK UP DIRECTIONAL TOOLS, DRILL F/213 T/2170									
6	6/14/2014	DRILL FROM 2170' TO 3024, CIRCULATE HI VIS SWEEP, WIPER TRIP TO 206' AND BACK TO BOTTOM, DRILL FROM, 3024' TO 3596' BACK REAMING EVERY 30'									
7	6/15/2014	DRILL FROM 3596' TO 4101', CIRCULATE HI VIS SWEEP, WIPER TRIP TO 2,545' AND BACK TO BOTTOM-BACK REQAM F/3671 T/3355, PUMP LCM SWEEPS,TRIP OUT FOR CASING, LAYDOWN DIRECTIONAL TOOLS.									
8	6/16/2014	HELD PJSA, AND RIG UP CASERS, RUN 97 JOINTS OF 9 5/8" SURFACE CASING, WASH LAST 5 JOINTS TO BOTTOM, RIG DOWN CASERS AND CIRCULATE FOR CEMENT, HELD PJSA AND RIG UP HALLIBURTON CEMENTERS. PUMP CEMENT,NO9 RETURNS. PLUG BUMPED AND FLOATS HELD. TOP OF CEMENT 2544'. RIG UP AND PUMP 100 SX OF TOP OUT CEMENT. WAIT ON CEMENT. CUT OF CASING AND WELD ON WELL HEAD.									
9	6/17/2014	NIPPLE UP BOP, FLOW LINE AND CHOKE, TEST BOP TO 5000 PSI, SET WEAR BUSHING, MAKE UP BIT, MOTOR, AND MWD, TRIP IN HOLE, DRILL CEMENT AND SHOE TRACK. FIT TEST TO 455 PSI, 10.5 EMW. DRILL F/4104 T/4342									
10	6/18/2014	TROUBLE SHOT MWD,DRILL FROM 4342' TO 6181									
11	6/19/2014	DRILL FROM 6181' TO 6528, ROUTINE RIG SERVICE, DRILL FROM 6528' TO 6871 , CONNECTIONS AND SURVEYS. CIRCULATE FOR TRIP,TRIP OUT OF HOLE FOR BIT FOR BIT.									
12	6/20/2014	CHANGE OUT BIT AND MOTOR, TRIP IN HOLE, DRILL FROM 6871' TO 8147' RIG SERVICE , SURVES AND CONNECTIONS									
13	6/21/2014	DRILL FROM 8147' TO 9130' RIG SERVICE, SURVEYS AND CONNECTIONS									
14	6/22/2014	DRILL FROM 9130' TO 9478', ROUTINE RIG SERVICE, DRILL FROM 9478' TO 10112' SURVEYS AND CONNECTIONS									
15	6/23/2014	DRILL FROM 10112' TO 10920 , CONNECTIONS AND SURVEYS. CIRCUALTE HIGH VIS SWEEP, WIPER TRIPTO CASING SHOE									
16	6/24/2014	WIPE TRIP TO SHOE AND BACK TO BOTOM, CIRCULTE AND CONDITION FOR LOGS. T.O.O.H, L/D DIRECTIONAL TOOLS. RUN TRIPPLE COMBO LOG. PICK UP BHA AND TRIP IN HOLE.									
17	6/25/2014	CUT DRILL LINE, TRIP IN HOLE, RIG SERVICE,RIG REPAIRE,DRILL,CONNECTION SURVEY									
18	6/26/2014	DRILL,RIG SERVICE,CONNECTION SURVEY,									
19	6/27/2014	DRILL,CONNECTION SURVEY,RIG SERVICE, WORK ON PUMPS									
20	6/28/2014	WIPER TRIP TO BIT,TRIP IN,CIRC B/U, WIPER TRIP 10 STANDS,CIRC, TRIP OUT LAYING DOWN									
21	6/29/2014	LAY DOWN PIPE, RIG UP CASING CREW,									
22	6/30/2014	RUN CASING, CIRC RIG UP HALLIBURTON, SET PACK OFF,CEMENT CASING,									
23	7/1/2014	CLEAN PITS, INSTALL MPD SYSTEM LINES									
24	7/2/2014	TEST BOP, RIG UP NEW GAS BUSTER									
25	7/3/2014	RIG UP SWACO									
26	7/4/2014	CUT DRILL LINE, RIG UP ZECO MUD CLEANER, PICK UP 4" PIPE, DRILL SHOE TRACK 10' FORMATION									
27	7/5/2014	DRILL, MPD SHUT IN AND WELL KILL, TRIP OUT, CHANGE BIT AND MWD, TRIP IN									
28	7/6/2014	TRIP,CIRC B/U, REAM, RIG SERVICE, DRILL, CIRC B/U, GET SICP, PUMP KILL PILL									
29	7/7/2014	TRIP,CHANGE BHA,TRIP,CIRC,REPAIR RIG, DRILL									
30	7/8/2014	DRILL,RIG SERVICE,CONNECTION SURVEY									



Daily Activity and Cost Summary

Well Name: RW 32-25A

API 43-047-51788	Surface Legal Location S25-T7S-R22E	Field Name RED WASH	County UINTAH	State UTAH	Well Configuration Type Horizontal
Unique Well ID UT101923	Ground Elevation (ft) 5,509	Casing Flange Elevation (ft) 5,509.00	Current KB to GL (ft) 30.00	KB to CF (ft) 30.00	Spud Date 1/3/2014 12:00
					Dry Hole TD Date 9/3/2014 18:00

RPT #	Start Date	Summary
31	7/9/2014	DRILL FROM 12,866' TO 12926', ROUTINE RIG SERVICE, DRILL FROM 12926' TO 12975', CIRC. BTMS UP GET SICP, DRILL FROM 12975' TO 13102 , CONNECTIONS AND SURVEYS
32	7/10/2014	DRILL FROM 13102 TO 13110, CIRCULATE BTMS UP GET SICP, SPOT KILL MUD, STRIP UP TO KICK OFF POINT, SPOT KILL MUD, TRIP OUT CHANGE BIT AND MOTOR, TRIP IN HOLE, WAIT ON MECHANIC TO FIX TOPDRIVE
33	7/11/2014	REPAIR TOPDRIVE RAM, TRIP OUT REPOSITION JARRS, TRIP IN TO CASING SHOE 12000', CIRCULATE OUT KILL MUD, STRIP IN HOLE HOLDING 850 PSI, WASH 85' TO BOTTOM, DRILL FROM 13110' TO 13244 , CONNECTIONS AND SURVEYS
34	7/12/2014	DRILL FROM 13244' TO 13433', ROUTINE RIG SERVICE, DRILL FROM 13433' TO 13684 , CONNECTIONS AND SURVEYS
35	7/13/2014	DRILL FROM 13684' TO 13766', ROUTINE RIG SERVICE, DRILL FROM 13766' TO 13874', CONNECTIONS AND SURVEYS, DRILL FROM 13874' TO 14045 , CONNECTIONS AND SURVEYS
36	7/14/2014	DRILL FROM 14045' TO 14064' , ROUTINE RIG SERVICE, DRILL FROM 14064' TO 14074', CIRCULATE BOTTOMS UP ACCUIRE SICP, PUMP 50 BBLs 16# KILL MUD, STRIP OUT TO 10,950, PUMP REMAINING KILL MUD AND FLOW CHECK, TRIP OUT CONVENTIONAL, CHANGE BIT, MOTOR AND ORIENT MWD TOOL, TRIP IN HOLE TO 9000' FILLING PIPE EVERY 30 STANDS, CIRCULATE BTMS UP CATCH KILL MUD, TRIP FROM 9000' TO 12,048', CIRCULATE BOTTOMS UP AT SHOE
37	7/15/2014	CIRCULATE KILL MUD OUT OF HOLE SICP 580 PSI, STRIP IN HOLE HOLDING 700 PSI CASING PRESSURE, SAFETY WASH 60' TO BOTTOM, DRILL FROM 14074' TO 14270 , ROUTINE RIG SERVICE, , DRILL FROM 14270 TO 14555 CONNECTIONS AND SURVEYS
38	7/16/2014	DRILL FROM 14555' TO 14760, CONNECTIONS AND SURVEYS, DRILL FROM 14760' TO 14791, TROUBLE SHOOT MWD, CIRCULATE BTM UP OBTAIN SICP PUMP 60 BBLs KILL MUD, STRIP OUT HOLDING 800 PSI TO KOP 10,900, FINISH PUMPING KILL MUD
39	7/17/2014	PUMP REMAINING KILL MUD AT SHOE, TRIP OUT OF HOLE, CHANGE BIT, MOTOR, AND ORIENT MWD TOOL, TRIP IN HOLE TO 9,522', CIRC. BOTTOMS UP AND CATCH KILL MUD, TRIP IN HOLE TO CSG. SHOE # 12048', CIRC. BOTTOMS UP AND CATCH KILL MUD OBTAIN SICP 590 PSI, STRIP IN HOLE TO 14701 HOLDING 700 PSI CSG PSI, WASH 90' TO BOTTOM FROM 14701' TO 14791', DRILL FROM 14791' TO 14875 , CONNECTIONS AND SURVEYS
40	7/18/2014	DRILL FROM 14875' TO 14969', ROUTINE RIG SERVICE, DRILL FROM 14969 TO 15015, CONNECTIONS AND SURVEYS, DRILL FROM 15015 TO 15173 , CONNECTIONS AND SURVEYS
41	7/19/2014	DRILL FROM 15173' TO 15260', WORK TIGHT HOLE F/15230' T/15260', DRILL FROM 15260' T/15284', CONNECTIONS AND SURVEYS, TROUBLE SHOOT PRESSURE PROBLEM, CIRCULATE BOTTOMS UP OBTAIN SICP PUMP KILL MUD, STRIP OUT HOLDING 800 PSI CASING PRESSURE, TO 10,850', PUMP KILL MUD AND DISPLACE, FLOW CHECK WELL, CHANGE OUT ROT HEADS TRIP OUT FILLING HOLE WITH TRIP TANK
42	7/20/2014	TRIP OUT OF HOLE, CLEAN OFF FLOOR, CHANGE BIT, MOTOR, AND ORIENT MWD TOOL, INSTALL NEW ROT. HEAD, TRIP IN HOLE TO 9550', CIRC. BTMS UP AND CATCH KILL MUD, TRIP IN TO CASING SHOE @12048', CIRC. BTMS UP AND CATCH KILL MUD OBTAIN SICP 750 PSI, STRIP IN HOLE TO 15194', SAFETY REAM 90' TO BOTTOM, CIRCULATE BOTTOMS UP, TROUBLE SHOOT MWD (WOULD NOT LOG GAMMA), DRILL FROM 15284' TO 15322 , RE-LOG GAMMA F/15235' TO 15322 ,
43	7/21/2014	DRILL FROM 15322' T/15510', ROUTINE RIG SERVICE, CONNECTIONS AND SURVEYS, DRILL FROM 15510' TO 15525', CIRC. BOTTOMS UP PUMP KILL MUD, STRIP OUT TO 10,850', CIRC. REMAINDER OF KILL MUD FLOW CHECK WELL, CONTINUE TRIPPING OUT OF HOLE
44	7/22/2014	TRIP OUT OF HOLE, CHANGE BOT AND MOTOR ORIENT MWD, TRIP IN HOLE TO 9536', SLIP AND CUT DRILL LINE, CIRCULATE BOTTOMS UP CATCH KILL MUD, TRIP IN HOLE TO SHOE @ 12065', CIRCULATE BOTTOMS UP CATCH KILL MUD SICP 650 PSI, STRIP IN HOLE TO 14809', REAM F/15809' T/15525', TROUBLE SHOOT MWD, DRILL FROM 15525' TO 15564
45	7/23/2014	DRILL, RIG SERVICE, SURVEY
46	7/24/2014	ATTEMPT TO DRILL, PUMP ECD, TRIP OUT, CHNAGE BHA, TRIP IN, CHANGE OUT SPINNERS, STRIP IN HOLE
47	7/25/2014	REPAIR TOP DRIVE, STRIP IN HOLE, REAM LAST 4 STANDS, DRILL, TROUBLE SHOOT MWD TOOL, CIRCULATE GAS OUT, STRIP OUT
48	7/26/2014	TRIP IN HOLE FROM SHOE, CIRCULATE GAS OUT, SPOT ECD, STRIP TO KOP, SPOT ECD, FLOW CHECK, TRIP OUT, LAY DOWN DIRECTIONAL TOOLS, RUN STORM PACKER, CHANGE DOOR SEALS, TEST BOP
49	7/27/2014	TEST BOP, RETRIEVE STORM PACKER, PICK UP NATIVE BHA, TRIP IN HOLE
50	7/28/2014	CIRCULATE, STRIP, CIRCULATE, STRIP, CIRCULATE RE-LOG GAMMA, DRILL, SURVEY CONNECTION
51	7/29/2014	DRILL, RIG SERVICE, PUMP 60 BBL ECD, STRIP OUT, PUMP 75 BBL ECD 46 BBL ACTIVE, 15 BBL SLUG, TRIP OUT TO BHA, CHANGE OUT MOTOR & BIT
52	7/30/2014	TRIP IN HOLE, SLIP CUT DRILL LINE, CIRCULATE, STRIP IN HOLE, SAFTEY WASH, DRILL, CONNECTION SURVEY
53	7/31/2014	DRILL, RIG SERVICE, CONNECTION SURVEY
54	8/1/2014	DRILL, WORK TIGHT HOLE, SURVEY CONNECTION, CIRC KILL WELL, PUMP ECD, STRIP OUT



Daily Activity and Cost Summary

Well Name: RW 32-25A

API 43-047-51788	Surface Legal Location S25-T7S-R22E	Field Name RED WASH	County UINTAH	State UTAH	Well Configuration Type Horizontal
Unique Well ID UT101923	Ground Elevation (ft) 5,509	Casing Flange Elevation (ft) 5,509.00	Current KB to GL (ft) 30.00	KB to CF (ft) 30.00	Spud Date 1/3/2014 12:00
Dry Hole TD Date 9/3/2014 18:00					

RPT #	Start Date	Summary
55	8/2/2014	STRIP OUT, PUMP ECD, TRIP OUT, CHANGE BHA, TRIP IN, CIRC ECD PILL, TRIP IN, SAFTEY REAM F/ 16,724 TO 17225
56	8/3/2014	WASH REAM BREAK IN BIT, DRILL,RIG SERVICE, CONNECTION SURVEY
57	8/4/2014	DRILL,RIG SERVICE, CONNECTION SURVEY
58	8/5/2014	DRILL, CHANGE OUT ROT HEAD, SURVEY & CONNECTION
59	8/6/2014	DRILL FROM 18107' TO 18110, CIRCULATE BOTTOMS UP, PUMP 65 BBLS KILL MUD, STRIP OUT TO 10,965', PUMP REMAINDER OF KILL MUD AND DISPLACE, FLOW CHECK WELL, TRIP OUT, CHANGE OUT BIT, MOTOR AND RE-CONFIGURE DIRECTIONAL TOOLS. TEST AND TRIPIN HOLE TO 9642.
60	8/7/2014	TRIP IN HOLE AND CIRCULTE KILL MUD OUT OF HOLE AT SHOE, TRIP IN TO 17451', REAM TIGHT HOLE F/17451 T/BOTTOM. DRILLING F/18110 T/18229
61	8/8/2014	DRILL FROM 18229' TO 18233', WIPER TRIP 3 TSANDS AND REAM TO BOTTOM TO REDUCE TORQUE, CIRCULATE BOTTOMS UP AND PUMP KILL MUD, STRIP OUT TO 10866', PUMP REMAINDER OF KILL MUD AND DISPLACE, SWAP OUT ROTATING HEADS AND FLOW CHECK WELL, TRIP OUT TO SURFACE FILLING WITH TRIP TANK, CAHNGE OUT BIT AND MOTOR. TRIP IN HOLE TO 9453. CUT DRILLING LINE AND CIRCULTE KILL MUD OUT OF HOLE.STRIP IN TO CASING SHOE HOLDING 400 PSI
62	8/9/2014	CIRC. BOTTOMS UP AND CATCH KILL MUD, TRIP IN TO 12065', CIRC. BOTTOMS UP AND CATCH KILL MUD STRIP IN HOLE, REAM F/18023' TO 18233, DRILL F/18233' TO 18423'
63	8/10/2014	DRILL F/18423' T/18444', CIRC 2 BOTTOMS UP HOLDING 600 CASING PRESSURE, PUMP KILL MUD AND STRIP OUT TO 10,950', PUMP REMAINDER OF KILL MUD FLOW CHECK AND SWAP ROTATING HEADS, TRIP OUT OF HOLE, CHANGE OUT BHA AND TEST. TRIP IN HOLE TO 9643', CIRCULTE KILL MUD OUT OF HOLE.TRIP IN HOLE
64	8/11/2014	TRIP IN HOLE TO SHOE, CIRCULATE BOTTOMS UP AND CATCH KILL MUD, STRIP IN HOLE FILL PIPE EVERY 3000', REAM TIGHT HOLE F/17226' TO 18444', DRILL F/18444 T/18543. BACK REAM F/18543 T/18352
65	8/12/2014	CIRCULATE AND PUMP 65BBLS KILL MUD, STRIP OUT HOLDING 1000 PSI CASING PRESSURE TP 10,860', PUMP REMAINDER OF KILL MUD AND DISPLACE,TRIP OUT OF HOLE, CHANGE OUT BHA. TRIP IN HOLE, CIRCULTE KILL MUD OUT OF HOLE @ 9643' AND SHOE. STRIP IN HOLE HOLDING 900 PSI
66	8/13/2014	REAM TIGHT HOLE FROM 16300' TO 18543', DRILL F/18543' T18748
67	8/14/2014	DRILL F/18748' T/ 18756', OBTAIN SICP 700 PSI, PUMP KILL MUD AND STRIP OUT TO 10,948', PUMP REMAINDER 55 BBLS KILL MUD FLOW CHECK WELL SWAP OUT ROTATING HEADS, TRIP OUT OF HOLE, CHANGE OUT BHA, ORIENT AND TEST. TRIP IN HOLE TO 9543'. CUT DRILLING LINE, CIRCULTE KILL MUD OUT. STRIP IN HOLE TO 12093', CIRCULTE KILL MUD OUT OF HOLE
68	8/15/2014	TRIP IN HOLE TO 18231, REAM F/18231 T/18754, DRILL F/18754 T/18925
69	8/16/2014	DRILL F/18925' T/18948 , OBTAIN SICP =750 PSI, STRIP OUT TO 10948' HOLDING 1000 PSI CASING PRESSURE, PUMP REMAINDER 55 BBLS OF KILL MUD FLOW CHECK WELL, TRIP OUT OF HOLE , CHANGE OOT BHA AND TEST TOOLS, TRIP IN HOLE T/3220'- MWD WONT TEST, T.O.O.H AND CHANGE OUT MWD, ORIENT AND TEST
70	8/17/2014	TRIP IN HOLE TESTING MWD EVERY 3000' TO 9645', CHANGE SWIVEL PACKING AND SAVER SUB, CIRCULATE BOTTOMS UP AND CATCH KILL MUD STRIP IN HOLE TO 12095', CIRCULATE BOTTOMS UP AND CATCH KILL MUD, STRIP IN HOLE FILLING EVERY 3000', SAFETY WASH 60' TO BOTTOM. DRILLING F/18948' T/19036
71	8/18/2014	DRILL F/19036' T/19136', DRILL STRING BACKED APART, SCREWED BACK TOGER AND LAYED DOWN 2 BAD JOINTS. DRILL F/19136 T/19190
72	8/19/2014	DRILL F/19190' T/19360
73	8/20/2014	DRILL,RIG SERVICE, CONNECTION SURVEY, TRIP FOR BIT, CHNAGE OUT BHA
74	8/21/2014	TIH,PICK UP AGITATORS, SLIP CUT,CIRCOUT ECD PILLS, STRIP IN HOLE, WASH REAM LAST 8 STDS, DRILL
75	8/22/2014	DRILL,RIG SERVICE,SURVEY
76	8/23/2014	DRILL,RIG SERVICE,SURVEY
77	8/24/2014	DRILL,RIG SERVICE,SURVEY
78	8/25/2014	DRILL,RIG SERVICE, SURVEY CONNECTION,ATTEMPT TO SLIDE, TRIP OUT FOR BHA AND 30 DAY BOP TEST
79	8/26/2014	TEST BOP, PICK UP BHA, TEST MWD, FIRST FAILED, INSTALL SECOND TOOL AND TEST, TRIP IN HOLE
80	8/27/2014	WASH REAM, DIRECTIONAL DRILL,RIG SERVICE,SURVEY CONNECTION,
81	8/28/2014	DRILL,RIG SERVICE,CIRC, WIPER TRIP,CIRC,WIPER TRIP
82	8/29/2014	TRIP IN HOLE,REAM,CIRC SPOT PILL,TRIP OUT TO SHOE,LAY DOWN DRILL PIPE
83	8/30/2014	LAY DOWN PIPE, RIG UP CASING CREW, RUN CASING
84	8/31/2014	RUN CASING, RIG DOWN VOLANT TOOL, RIG UP CRT
85	9/1/2014	RUN CASING, CEMENT CASING, CLEAN PITS,FLUSH STACK
86	9/2/2014	WAIT ON CEMENT, NIPPLE DOWN, SET SLIPS, RIG DOWN CRT, CLEAN PITS



Daily Activity and Cost Summary

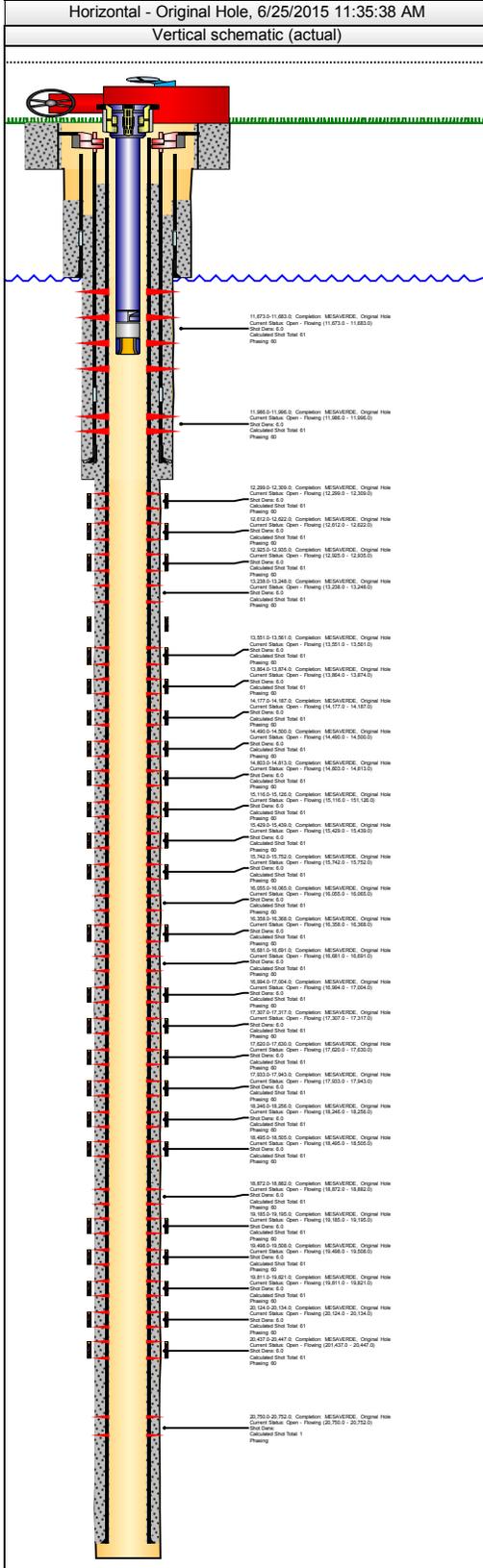
Well Name: **RW 32-25A**

API 43-047-51788	Surface Legal Location S25-T7S-R22E	Field Name RED WASH	County UINTAH	State UTAH	Well Configuration Type Horizontal	
Unique Well ID UT101923	Ground Elevation (ft) 5,509	Casing Flange Elevation (ft) 5,509.00	Current KB to GL (ft) 30.00	KB to CF (ft) 30.00	Spud Date 1/3/2014 12:00	Dry Hole TD Date 9/3/2014 18:00
RPT #	Start Date	Summary				
87	9/3/2014	RIG DOWN MOVE OUT FRONT YARD, LOWER DERRICK, RELEASE RIG @ 1800 HRS 9/3/2014,				

Perforations

Well Name: RW 32-25A

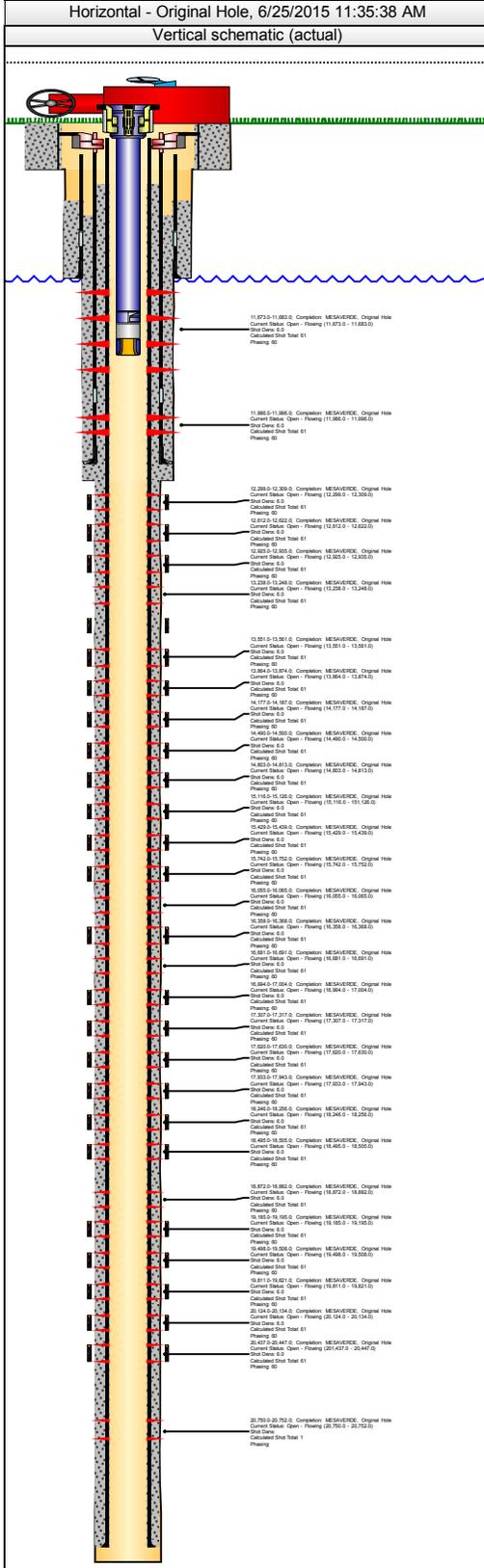
API 43-047-51788	Surface Legal Location S25-T7S-R22E	Field Name RED WASH	County UINTAH	State UTAH	Well Configuration Type Horizontal
Unique Well ID UT101923	Gr Elev (ft) 5,509	Current Elevation 5,539.00, SST 88 - KB 30	KB to CF (ft) 30.00	Spud Date 1/3/2014 12:00	Dry Hole TD Date 9/3/2014 18:00
			Total Depth (All) (ft, KB) Original Hole - 20,900.0		



Perforations					
Date	Completion	Top Depth (ft, KB)	Bottom Depth (ft, KB)		
10/1/2014	MESAVERDE, Original Hole	11,673.0	11,683.0		
Perforation Company Cutters ELU		Conveyance Method Wireline		Gun Size (in) 3 1/8	
Shot Density (shots/ft) 6.0		Charge Type		Phasing (°) 60	
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					61
Perforation Statuses					
Date	Status	Com			
10/1/2014	Open - Flowing				
Date	Completion	Top Depth (ft, KB)	Bottom Depth (ft, KB)		
9/30/2014	MESAVERDE, Original Hole	11,986.0	11,996.0		
Perforation Company Cutters ELU		Conveyance Method Wireline		Gun Size (in) 3 1/8	
Shot Density (shots/ft) 6.0		Charge Type		Phasing (°) 60	
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					61
Perforation Statuses					
Date	Status	Com			
9/30/2014	Open - Flowing				
Date	Completion	Top Depth (ft, KB)	Bottom Depth (ft, KB)		
9/30/2014	MESAVERDE, Original Hole	12,299.0	12,309.0		
Perforation Company Cutters ELU		Conveyance Method Wireline		Gun Size (in) 3 1/8	
Shot Density (shots/ft) 6.0		Charge Type		Phasing (°) 60	
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					61
Perforation Statuses					
Date	Status	Com			
9/30/2014	Open - Flowing				
Date	Completion	Top Depth (ft, KB)	Bottom Depth (ft, KB)		
9/30/2014	MESAVERDE, Original Hole	12,612.0	12,622.0		
Perforation Company Cutters ELU		Conveyance Method Wireline		Gun Size (in) 3 1/8	
Shot Density (shots/ft) 6.0		Charge Type		Phasing (°) 60	
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					61
Perforation Statuses					
Date	Status	Com			
9/30/2014	Open - Flowing				
Date	Completion	Top Depth (ft, KB)	Bottom Depth (ft, KB)		
9/29/2014	MESAVERDE, Original Hole	20,124.0	20,134.0		
Perforation Company Cutters ELU		Conveyance Method Wireline		Gun Size (in) 3 1/8	
Shot Density (shots/ft) 6.0		Charge Type		Phasing (°) 60	
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					61

Well Name: **RW 32-25A**

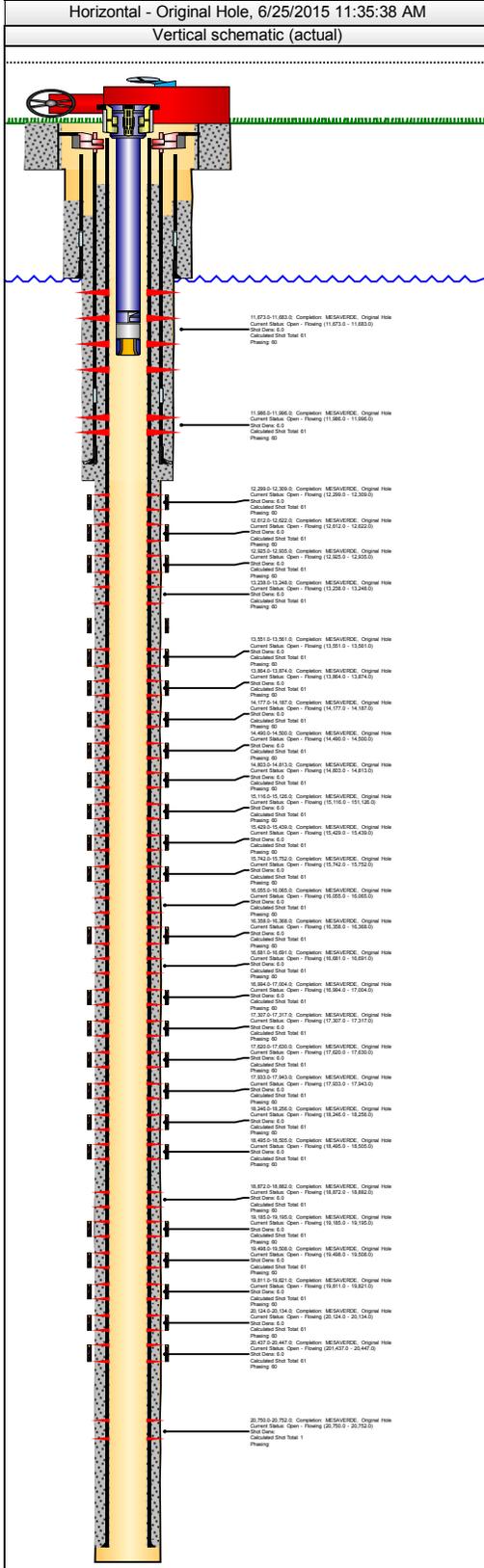
API 43-047-51788	Surface Legal Location S25-T7S-R22E	Field Name RED WASH	County UINTAH	State UTAH	Well Configuration Type Horizontal
Unique Well ID UT101923	Gr Elev (ft) 5,509	Current Elevation 5,539.00, SST 88 - KB 30	KB to CF (ft) 30.00	Spud Date 1/3/2014 12:00	Dry Hole TD Date 9/3/2014 18:00
Horizontal - Original Hole, 6/25/2015 11:35:38 AM			Total Depth (All) (ft, KB) Original Hole - 20,900.0		



Perforation Statuses					
Date	Status	Com			
9/29/2014	Open - Flowing				
Date 9/28/2014	Completion MESAVERDE, Original Hole	Top Depth (ft, KB) 12,925.0	Bottom Depth (ft, KB) 12,935.0		
Perforation Company Cutters ELU	Conveyance Method Wireline	Gun Size (in) 3 1/8	Carrier Make		
Shot Density (shots/ft) 6.0	Charge Type	Phasing (°) 60			
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 61					
Perforation Statuses					
Date	Status	Com			
9/29/2014	Open - Flowing				
Date 9/28/2014	Completion MESAVERDE, Original Hole	Top Depth (ft, KB) 13,238.0	Bottom Depth (ft, KB) 13,248.0		
Perforation Company Cutters ELU	Conveyance Method Wireline	Gun Size (in) 3 1/8	Carrier Make		
Shot Density (shots/ft) 6.0	Charge Type	Phasing (°) 60			
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 61					
Perforation Statuses					
Date	Status	Com			
9/28/2014	Open - Flowing				
Date 9/28/2014	Completion MESAVERDE, Original Hole	Top Depth (ft, KB) 13,551.0	Bottom Depth (ft, KB) 13,561.0		
Perforation Company Cutters ELU	Conveyance Method Wireline	Gun Size (in) 3 1/8	Carrier Make		
Shot Density (shots/ft) 6.0	Charge Type	Phasing (°) 60			
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 61					
Perforation Statuses					
Date	Status	Com			
9/28/2014	Open - Flowing				
Date 9/28/2014	Completion MESAVERDE, Original Hole	Top Depth (ft, KB) 13,864.0	Bottom Depth (ft, KB) 13,874.0		
Perforation Company Cutters ELU	Conveyance Method Wireline	Gun Size (in) 3 1/8	Carrier Make		
Shot Density (shots/ft) 6.0	Charge Type	Phasing (°) 60			
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 61					

Well Name: **RW 32-25A**

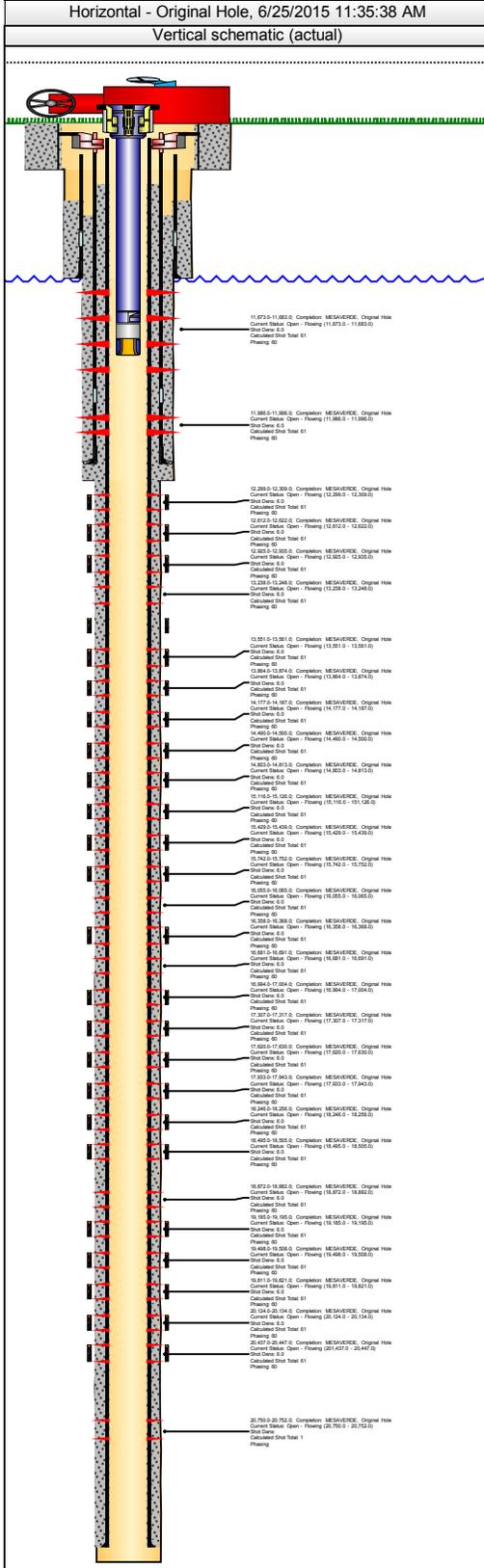
API 43-047-51788	Surface Legal Location S25-T7S-R22E	Field Name RED WASH	County UINTAH	State UTAH	Well Configuration Type Horizontal
Unique Well ID UT101923	Gr Elev (ft) 5,509	Current Elevation 5,539.00, SST 88 - KB 30	KB to CF (ft) 30.00	Spud Date 1/3/2014 12:00	Dry Hole TD Date 9/3/2014 18:00
Horizontal - Original Hole, 6/25/2015 11:35:38 AM			Total Depth (All) (ft, KB) Original Hole - 20,900.0		



Perforation Statuses					
Date	Status	Com			
9/28/2014	Open - Flowing				
Date	9/28/2014	Completion	MESAVERDE, Original Hole	Top Depth (ft, KB)	14,177.0
Perforation Company	Cutters ELU	Conveyance Method	Wireline	Gun Size (in)	3 1/8
Shot Density (shots/ft)	6.0	Charge Type		Phasing (°)	60
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					
61					
Perforation Statuses					
Date	9/28/2014	Status	Open - Flowing		
Date	9/27/2014	Completion	MESAVERDE, Original Hole	Top Depth (ft, KB)	14,490.0
Perforation Company	Cutters ELU	Conveyance Method	Wireline	Gun Size (in)	3 1/8
Shot Density (shots/ft)	6.0	Charge Type		Phasing (°)	60
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					
61					
Perforation Statuses					
Date	9/27/2014	Status	Open - Flowing		
Date	9/27/2014	Completion	MESAVERDE, Original Hole	Top Depth (ft, KB)	14,803.0
Perforation Company	Cutters ELU	Conveyance Method	Wireline	Gun Size (in)	3 1/8
Shot Density (shots/ft)	6.0	Charge Type		Phasing (°)	60
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					
61					
Perforation Statuses					
Date	9/27/2014	Status	Open - Flowing		
Date	9/27/2014	Completion	MESAVERDE, Original Hole	Top Depth (ft, KB)	15,116.0
Perforation Company	Cutters ELU	Conveyance Method	Wireline	Gun Size (in)	3 1/8
Shot Density (shots/ft)	6.0	Charge Type		Phasing (°)	60
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					
61					

Well Name: **RW 32-25A**

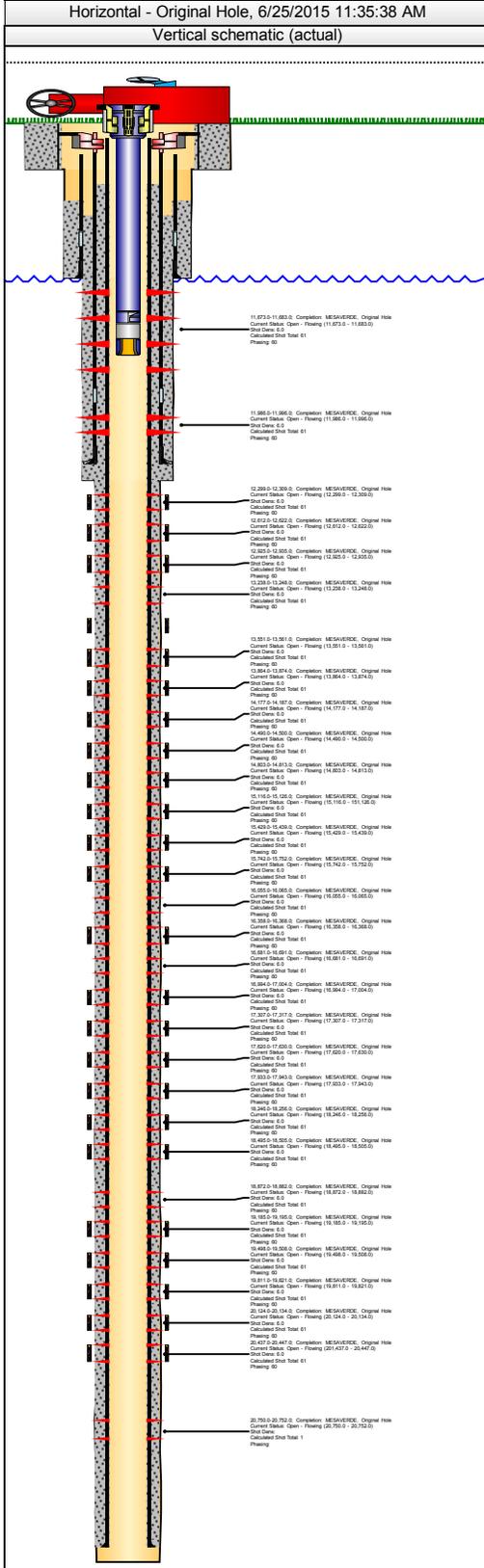
API 43-047-51788	Surface Legal Location S25-T7S-R22E	Field Name RED WASH	County UINTAH	State UTAH	Well Configuration Type Horizontal
Unique Well ID UT101923	Gr Elev (ft) 5,509	Current Elevation 5,539.00, SST 88 - KB 30	KB to CF (ft) 30.00	Spud Date 1/3/2014 12:00	Dry Hole TD Date 9/3/2014 18:00
Horizontal - Original Hole, 6/25/2015 11:35:38 AM			Total Depth (All) (ft, KB) Original Hole - 20,900.0		



Perforation Statuses					
Date	Status	Com			
9/27/2014	Open - Flowing				
Date	Completion	Top Depth (ft, KB)	Bottom Depth (ft, KB)		
9/26/2014	MESAVERDE, Original Hole	15,429.0	15,439.0		
Perforation Company	Conveyance Method	Gun Size (in)	Carrier Make		
Cutters ELU	Wireline	3 1/8			
Shot Density (shots/ft)	Charge Type	Phasing (°)		60	
6.0					
Orientation	Orientation Method				
Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB)	FL MD After (ft, KB)	P Surf Init (psi)	P Final Surf (psi)
Reference Log					
Calculated Shot Total					
61					
Perforation Statuses					
Date	Status	Com			
9/26/2014	Open - Flowing				
Date	Completion	Top Depth (ft, KB)	Bottom Depth (ft, KB)		
9/26/2014	MESAVERDE, Original Hole	15,742.0	15,752.0		
Perforation Company	Conveyance Method	Gun Size (in)	Carrier Make		
Cutters ELU	Wireline	3 1/8			
Shot Density (shots/ft)	Charge Type	Phasing (°)		60	
6.0					
Orientation	Orientation Method				
Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB)	FL MD After (ft, KB)	P Surf Init (psi)	P Final Surf (psi)
Reference Log					
Calculated Shot Total					
61					
Perforation Statuses					
Date	Status	Com			
9/26/2014	Open - Flowing				
Date	Completion	Top Depth (ft, KB)	Bottom Depth (ft, KB)		
9/26/2014	MESAVERDE, Original Hole	16,055.0	16,065.0		
Perforation Company	Conveyance Method	Gun Size (in)	Carrier Make		
Cutters ELU	Wireline	3 1/8			
Shot Density (shots/ft)	Charge Type	Phasing (°)		60	
6.0					
Orientation	Orientation Method				
Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB)	FL MD After (ft, KB)	P Surf Init (psi)	P Final Surf (psi)
Reference Log					
Calculated Shot Total					
61					
Perforation Statuses					
Date	Status	Com			
9/26/2014	Open - Flowing				
Date	Completion	Top Depth (ft, KB)	Bottom Depth (ft, KB)		
9/25/2014	MESAVERDE, Original Hole	16,358.0	16,368.0		
Perforation Company	Conveyance Method	Gun Size (in)	Carrier Make		
Cutters ELU	Wireline	3 1/8			
Shot Density (shots/ft)	Charge Type	Phasing (°)		60	
6.0					
Orientation	Orientation Method				
Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB)	FL MD After (ft, KB)	P Surf Init (psi)	P Final Surf (psi)
Reference Log					
Calculated Shot Total					
61					

Well Name: **RW 32-25A**

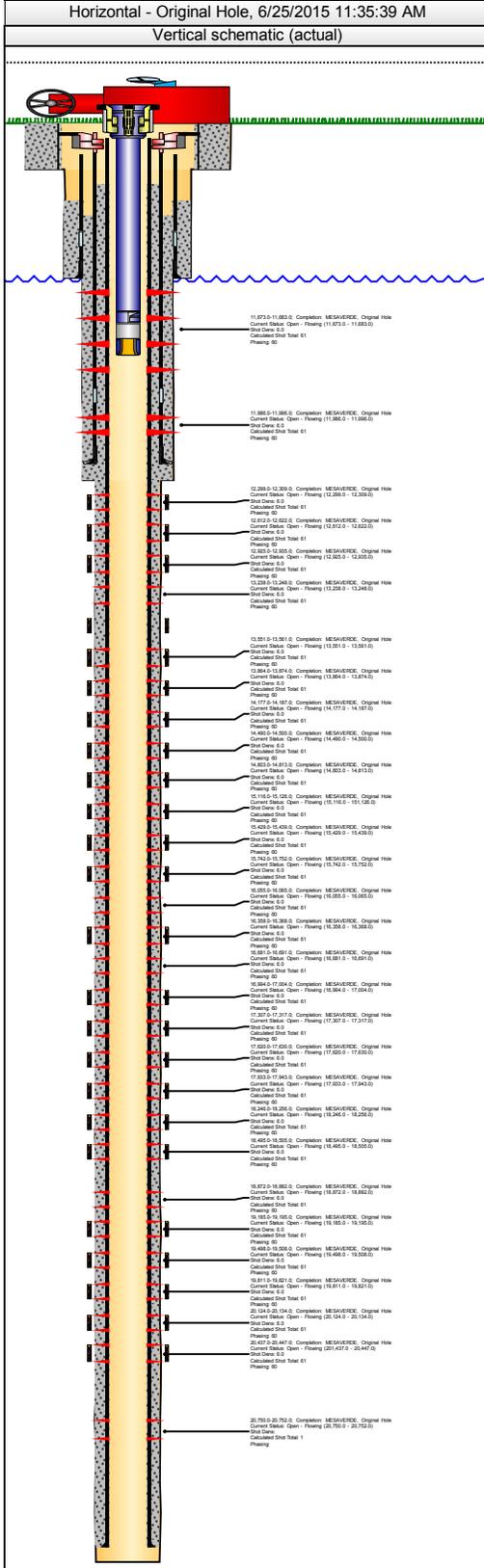
API 43-047-51788	Surface Legal Location S25-T7S-R22E	Field Name RED WASH	County UINTAH	State UTAH	Well Configuration Type Horizontal
Unique Well ID UT101923	Gr Elev (ft) 5,509	Current Elevation 5,539.00, SST 88 - KB 30	KB to CF (ft) 30.00	Spud Date 1/3/2014 12:00	Dry Hole TD Date 9/3/2014 18:00
Horizontal - Original Hole, 6/25/2015 11:35:38 AM			Total Depth (All) (ft, KB) Original Hole - 20,900.0		



Perforation Statuses					
Date	Status	Com			
9/25/2014	Open - Flowing				
Date 9/25/2014	Completion MESAVERDE, Original Hole	Top Depth (ft, KB) 16,681.0	Bottom Depth (ft, KB) 16,691.0		
Perforation Company Cutters ELU	Conveyance Method Wireline	Gun Size (in) 3 1/8	Carrier Make		
Shot Density (shots/ft) 6.0	Charge Type	Phasing (°) 60			
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 61					
Perforation Statuses					
Date	Status	Com			
9/25/2014	Open - Flowing				
Date 9/25/2014	Completion MESAVERDE, Original Hole	Top Depth (ft, KB) 16,994.0	Bottom Depth (ft, KB) 17,004.0		
Perforation Company Cutters ELU	Conveyance Method Wireline	Gun Size (in) 3 1/8	Carrier Make		
Shot Density (shots/ft) 6.0	Charge Type	Phasing (°) 60			
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 61					
Perforation Statuses					
Date	Status	Com			
9/25/2014	Open - Flowing				
Date 9/24/2014	Completion MESAVERDE, Original Hole	Top Depth (ft, KB) 17,307.0	Bottom Depth (ft, KB) 17,317.0		
Perforation Company Cutters ELU	Conveyance Method Wireline	Gun Size (in) 3 1/8	Carrier Make		
Shot Density (shots/ft) 6.0	Charge Type	Phasing (°) 60			
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 61					
Perforation Statuses					
Date	Status	Com			
9/24/2014	Open - Flowing				
Date 9/24/2014	Completion MESAVERDE, Original Hole	Top Depth (ft, KB) 17,620.0	Bottom Depth (ft, KB) 17,630.0		
Perforation Company Cutters ELU	Conveyance Method Wireline	Gun Size (in) 3 1/8	Carrier Make		
Shot Density (shots/ft) 6.0	Charge Type	Phasing (°) 60			
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 61					

Well Name: **RW 32-25A**

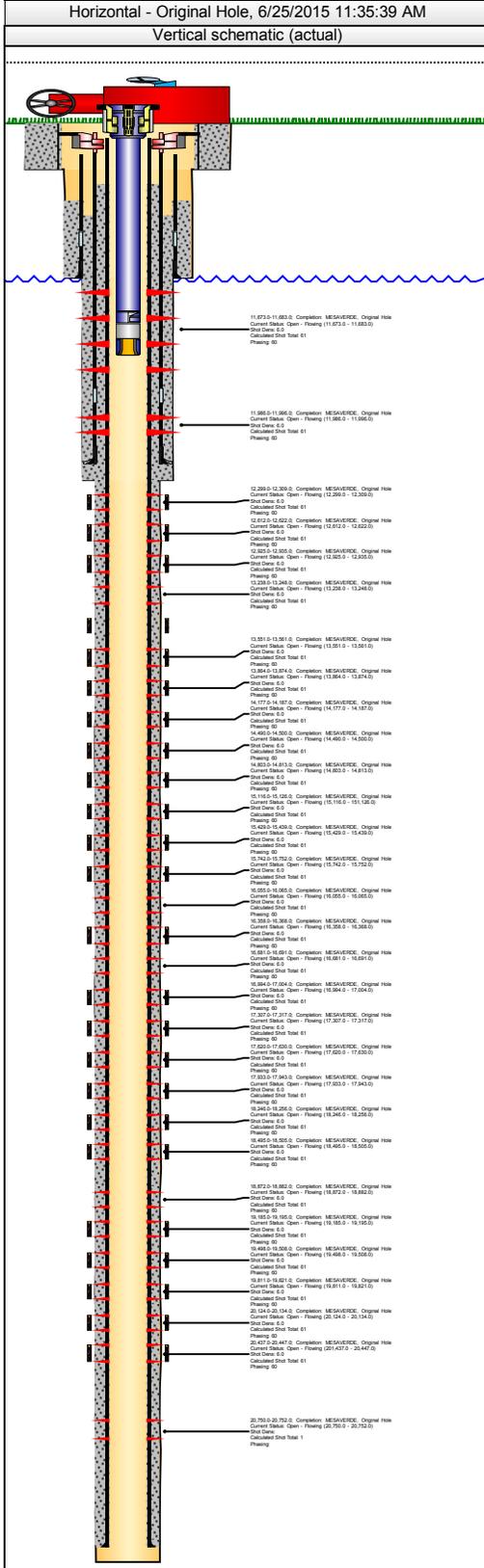
API 43-047-51788	Surface Legal Location S25-T7S-R22E	Field Name RED WASH	County UINTAH	State UTAH	Well Configuration Type Horizontal
Unique Well ID UT101923	Gr Elev (ft) 5,509	Current Elevation 5,539.00, SST 88 - KB 30	KB to CF (ft) 30.00	Spud Date 1/3/2014 12:00	Dry Hole TD Date 9/3/2014 18:00
Horizontal - Original Hole, 6/25/2015 11:35:39 AM			Total Depth (All) (ft, KB) Original Hole - 20,900.0		



Perforation Statuses					
Date	Status	Com			
9/24/2014	Open - Flowing				
Date 9/24/2014	Completion MESAVERDE, Original Hole	Top Depth (ft, KB) 17,933.0	Bottom Depth (ft, KB) 17,943.0		
Perforation Company Cutters ELU	Conveyance Method Wireline	Gun Size (in) 3 1/8	Carrier Make		
Shot Density (shots/ft) 6.0	Charge Type	Phasing (°) 60			
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 61					
Perforation Statuses					
Date	Status	Com			
9/24/2014	Open - Flowing				
Date 9/24/2014	Completion MESAVERDE, Original Hole	Top Depth (ft, KB) 18,246.0	Bottom Depth (ft, KB) 18,256.0		
Perforation Company Cutters ELU	Conveyance Method Wireline	Gun Size (in) 3 1/8	Carrier Make		
Shot Density (shots/ft) 6.0	Charge Type	Phasing (°) 60			
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 61					
Perforation Statuses					
Date	Status	Com			
9/24/2014	Open - Flowing				
Date 9/23/2014	Completion MESAVERDE, Original Hole	Top Depth (ft, KB) 18,495.0	Bottom Depth (ft, KB) 18,505.0		
Perforation Company Cutters ELU	Conveyance Method Coiled Tubing	Gun Size (in) 3 1/8	Carrier Make		
Shot Density (shots/ft) 6.0	Charge Type	Phasing (°) 60			
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 61					
Perforation Statuses					
Date	Status	Com			
9/23/2014	Open - Flowing				
Date 9/22/2014	Completion MESAVERDE, Original Hole	Top Depth (ft, KB) 18,872.0	Bottom Depth (ft, KB) 18,882.0		
Perforation Company Cutters ELU	Conveyance Method Wireline	Gun Size (in) 3 1/8	Carrier Make		
Shot Density (shots/ft) 6.0	Charge Type	Phasing (°) 60			
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 61					

Well Name: **RW 32-25A**

API 43-047-51788	Surface Legal Location S25-T7S-R22E	Field Name RED WASH	County UINTAH	State UTAH	Well Configuration Type Horizontal
Unique Well ID UT101923	Gr Elev (ft) 5,509	Current Elevation 5,539.00, SST 88 - KB 30	KB to CF (ft) 30.00	Spud Date 1/3/2014 12:00	Dry Hole TD Date 9/3/2014 18:00
Horizontal - Original Hole, 6/25/2015 11:35:39 AM			Total Depth (All) (ft, KB) Original Hole - 20,900.0		

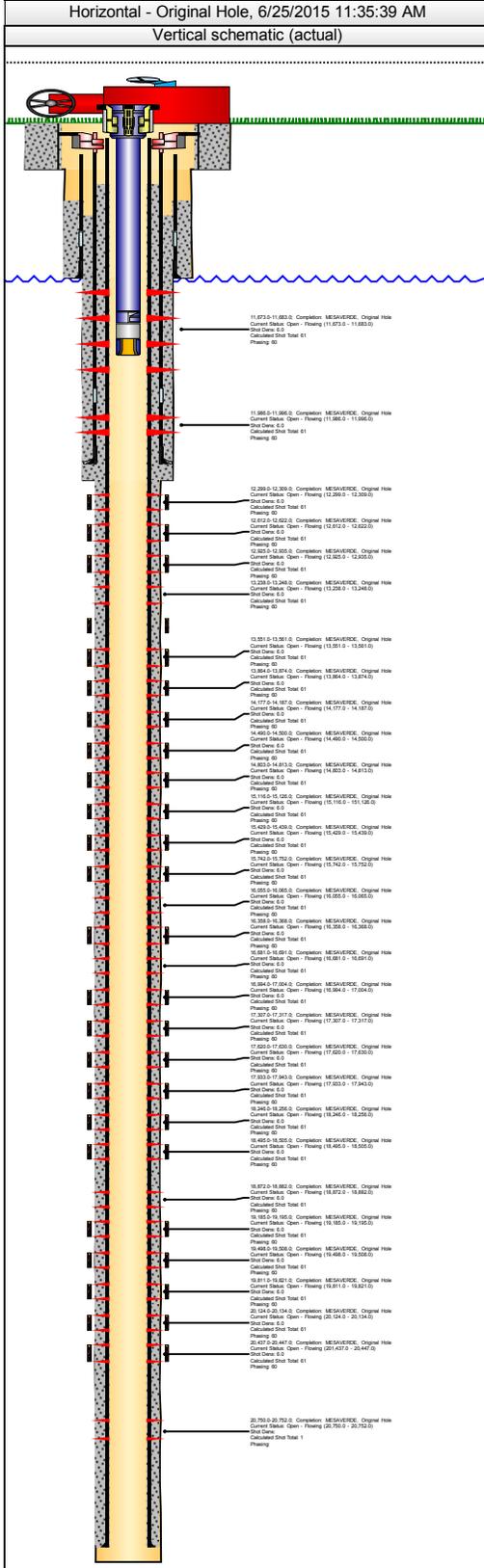


Perforation Statuses					
Date	Status	Com			
9/22/2014	Open - Flowing				
Date 9/22/2014	Completion MESAVERDE, Original Hole	Top Depth (ft, KB) 19,185.0	Bottom Depth (ft, KB) 19,195.0		
Perforation Company Cutters ELU	Conveyance Method Wireline	Gun Size (in) 3 1/8	Carrier Make		
Shot Density (shots/ft) 6.0	Charge Type	Phasing (°) 60			
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 61					
Perforation Statuses					
Date	Status	Com			
9/22/2014	Open - Flowing				
Date 9/22/2014	Completion MESAVERDE, Original Hole	Top Depth (ft, KB) 19,498.0	Bottom Depth (ft, KB) 19,508.0		
Perforation Company Cutters ELU	Conveyance Method Wireline	Gun Size (in) 3 1/8	Carrier Make		
Shot Density (shots/ft) 6.0	Charge Type	Phasing (°) 60			
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 61					
Perforation Statuses					
Date	Status	Com			
9/22/2014	Open - Flowing				
Date 9/21/2014	Completion MESAVERDE, Original Hole	Top Depth (ft, KB) 19,811.0	Bottom Depth (ft, KB) 19,821.0		
Perforation Company Cutters ELU	Conveyance Method Wireline	Gun Size (in) 3 1/8	Carrier Make		
Shot Density (shots/ft) 6.0	Charge Type	Phasing (°) 60			
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 61					
Perforation Statuses					
Date	Status	Com			
9/21/2014	Open - Flowing				
Date 9/21/2014	Completion MESAVERDE, Original Hole	Top Depth (ft, KB) 20,124.0	Bottom Depth (ft, KB) 20,134.0		
Perforation Company Cutters ELU	Conveyance Method Wireline	Gun Size (in) 3 1/8	Carrier Make		
Shot Density (shots/ft) 6.0	Charge Type	Phasing (°) 60			
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 61					

Perforations

Well Name: **RW 32-25A**

API 43-047-51788	Surface Legal Location S25-T7S-R22E	Field Name RED WASH	County UINTAH	State UTAH	Well Configuration Type Horizontal
Unique Well ID UT101923	Gr Elev (ft) 5,509	Current Elevation 5,539.00, SST 88 - KB 30	KB to CF (ft) 30.00	Spud Date 1/3/2014 12:00	Dry Hole TD Date 9/3/2014 18:00
Horizontal - Original Hole, 6/25/2015 11:35:39 AM			Total Depth (All) (ft, KB) Original Hole - 20,900.0		



Perforation Statuses					
Date	Status	Com			
9/21/2014	Open - Flowing				
Date 9/21/2014	Completion MESAVERDE, Original Hole	Top Depth (ft, KB) 20,437.0	Bottom Depth (ft, KB) 20,447.0		
Perforation Company Cutters ELU	Conveyance Method Wireline	Gun Size (in) 3 1/8	Carrier Make		
Shot Density (shots/ft) 6.0	Charge Type	Phasing (°) 60			
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 61					
Perforation Statuses					
Date	Status	Com			
9/21/2014	Open - Flowing				
Date 9/20/2014	Completion MESAVERDE, Original Hole	Top Depth (ft, KB) 20,750.0	Bottom Depth (ft, KB) 20,752.0		
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			
9/30/2014	Open - Flowing				

RW 32-25A

AFE - DRL-AL (artificial lift), <dtmstart>							
Well Name RW 32-25A		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), 8/18/2014 06:00							
Well Name RW 32-25A		Primary Job Type AFE - DRL-CT (completion)		Secondary Job Type	Objective	Start Date 8/18/2014	Job End Date 1/2/2015
RPT #	End Date	Cum Time Log (days)	Current Ops	Summary		Time Log Hrs (hr)	syscreateuser
1	8/19/2014 06:00			POLY PIPE			07051
2	9/9/2014 06:00	0.15	NU 4 1/16" x 15K Frac Head	9/8/14: ND wellhead, NU 4 1/16" x 15K Frac valve assembly. Set test hanger. Pressure test valves to 15K, all tests were good. Bled off pressure. Pull test hanger. SWI.		3.50	temptwilliams
3	9/10/2014 06:00	0.38	RU Cutters WL group	9/9/14: RU Cutters WL group. Run CBL//GR//CCL from 11,664' up to surface under 0-pressure. Estimate cement top @surface. Max temp was 196 degrees.		5.50	temptjones
4	9/12/2014 06:00	0.79	Well shut in.	MIRU HES acid equipment and Cutters ELU. Prime up and test HES lines to 9,500 psi. Load hole with 2 bbls FW. Pumped 106 bbls FW at 9 bpm and 4,300 psi. SD pump trucks. MU and RIH pumping 3 1/8" x 8" (with 3.75" cup) Owen Gunslinger pump-down tool to 12,960' when plug bumped up, shifting RSI tool at 8,314 psi (drilling did NOT get plug to bump up). Continue to RIH while pumping Owen Gunslinger tool to ELU depth of 20,488' (8 bpm at 4,300 psi). Stage #2 perms will be shot at 20,437'. POOH. RDMO HES acid equipment and Cutters ELU. SIW and wait on completion scheduled for 9/17/2014.		10.00	seiffert.contractor
5	9/16/2014 06:00	1.79	Well shut in.	RU Rockwater transfer pump and start filling AST tank. HES is delayed on their current job, possible RU on 9/17/014. Wait on completion scheduled for 9/18/2014.		24.00	seiffert.contractor
6	9/17/2014 06:00	2.79	Well shut in.	Finish filling AST tank(frac tanks and AST tank is full). Waiting on HES frac crew. Completion re-scheduled for 9/19/2014. PULL WATER FROM PIT		24.00	seiffert.contractor
7	9/18/2014 06:00	3.79	Well shut in.	Waiting on HES frac crew. Completion re-scheduled for 9/21/2014. PULLED WATER FROM PIT		24.00	seiffert.contractor
8	9/19/2014 06:00	4.79	Well shut in.	MI and spot Lone Wolf ELU. MI HES mtn movers and start filling. Prep to MIRU HES frac equipment tomorrow Completion scheduled for 9/20/2014.		24.00	seiffert.contractor
9	9/20/2014 06:00	5.79	Well shut in.	At report time MIRU HES frac equipment. Rig up D&M Hot oiler and heat (2) 1,000 bbl frac tanks to 90*. Completion scheduled for 9/20/2014.		24.00	seiffert.contractor
10	9/21/2014 06:00	6.79	Start 24 hr completion.	Finish RU HES treating lines (Blender was in shop til 2:00 am). Prime up and test HES main treating lines to 13,400 psi. Good test. Test annulus line to 3,500 psi. Good test. Load casing and while fracing stage #1 lost discharge pump on blender. Cut sand and flushed wellbore. RD blender, change out discharge pump and rig back up. Resume fracing stage #1. Pressured out with 0.75 lb 30/50 sand at perms. At report time, flowing well back.		24.00	seiffert.contractor

RW 32-25A

RPT #	End Date	Cum Time Log (days)	Current Ops	Summary	Time Log Hrs (hr)	syscreateuser
11	9/22/2014 06:00	7.79	Continue 24 hr completion.	Finish flowing back well on 20/64" choke at 2 bpm and 900 psi recovering 320 bbls fluid with a trace of sand (295 bbls bottoms up). Flush wellbore with 1,069 bbls slickwater and 40 bbls of x-link gel slug. Plug, perf and frac stages #2 and #3. Plug and perf stage #4. Lost Growler due to emission control module failure. RD Growler and RU new Growler from Vernal yard. Frac stage #4. At report time, RIH to plug and perf stage #5.	24.00	seiffert.contractor
12	9/23/2014 06:00	8.79	Continue 24 hr completion.	Finish plug and perf stage #5. Frac stage #5. Plug, perf and frac stage #6. Plug and perf stage #7. Stage #7 screened out with .70 PPA sand at perfs. Flowed back and attempted to flush well bore several times with out success. At report time, RD HES frac lines to MIRU Cudd Coil Unit.	24.00	seiffert.contractor
13	9/24/2014 06:00	9.79	Continue 24 hr completion.	Finish RD HES lines and limited equipment. MIRU Cudd 2" CTU. MU QES 2 3/8" CC, 3/4" ball dis-connect, DCV, XO and (1) TCP Cutters 10' tag gun loaded 6 SPF with 60* phasing. NU CT stack and test to 5,000 psi. RIH pumping 2 bpm to CTU depth of 18,495'. Drop 5/8" ball and perforate stage #8 at 18,495'-05'. POOH and RDMO Cudd 2" CTU. At report time, RU HES frac lines and Lone Wolf ELU.	24.00	seiffert.contractor
14	9/25/2014 06:00	10.79	Continue 24 hr completion.	Finish RU HES frac lines and Lone Wolf ELU. Prime up and test HES lines to 13,100 psi. Good test. Frac stage #8. Plug, perf and frac stages #9 thru #11. Plug and perf stage #12. At report time, fracing stage #12.	24.00	seiffert.contractor
15	9/26/2014 06:00	11.79	Continue 24 hr completion.	Finish fracing stage #12. Plug, perf and frac stage #13 and #14. Screned out stage #14 with 1.0 lb 30/50 sand at perfs. Flowed back 365 bbls fluid recovering stage #14 frac plug ball. Load hole with 950 bbl slickwater and 50 bbl x-link slug. Plug, perf and frac stage #15. Plug and perf stage #16. At report time, fracing stage #16. PULLED WATER FROM PIT	24.00	seiffert.contractor
16	9/27/2014 06:00	12.79	Continue 24 hr completion.	Finish fracing stage #16. Plug, perf and frac stage #17. Plug and perf stage #18. HES blender lost hydraulic pump. RD blender and MIRU new HES blender. HES replaced parts on add pumps, hoses and seals for the discharge flow meter. At report time, waiting on a tub bypass valve.	24.00	seiffert.contractor
17	9/28/2014 06:00	13.79	Continue 24 hr completion.	Waiting on HES blender parts. Finish repairing blender. Prime up and test HES main line to 13,100 psi. Good test. Frac stage #18. Plug, perf and frac stages #19 thru #22. Plug and perf stage #22. At report time, fracing stage #22.	24.00	seiffert.contractor
18	9/29/2014 06:00	14.79	Continue 24 hr completion.	Finish fracing stage #22. Plug and perf stage #23. Greased frac stack valves while waiting 5 hrs on sand (power outage at sand plant and stuck sand truck on lease road). Frac stage #23. Plug, perf and stage #24 and #25. Plug and perf stage #26. While fracing stage #26 HES emissions control system went out on pre-gel Growler. At report time, new Growler coming from town with a Cat mechanic to fix Growler or replace it.	24.00	seiffert.contractor
19	9/30/2014 06:00	15.33	Continue 24 hr completion.	RD HES growler and RU new growler from Vernal yard. New growler is having computer problems. HES E-tech solved software issues. Prime up and test HES lines to 13,100 psi. Good test. Frac stage #26. RIH and set plug for stage #27 at 12,652'. Gun mis-fired. POOH and MU new 10' tag gun. RBIH and perforate stage #27. POOH getting wireline stuck in lubricator with end of wireline at 60'. At report time, waiting on clamp to tie off line and repair.	13.00	seiffert.contractor

RW 32-25A

RPT #	End Date	Cum Time Log (days)	Current Ops	Summary	Time Log Hrs (hr)	syscreateuser
20	10/1/2014 06:00	16.33	Continue 24 hr completion.	Make (4) cuts and pulls getting 10' tag gun/setting tool to surface. Flushed wellbore with 340 bbls slickwater with 40 bbl x-link slug. Check wireline integrity and re-head. MU and RIH with new 10'tag gun. Perforate stage #27 at 12,612'. POOH. During stage #27 frac HES blender lost turbo. Cut 30/50 sand and flushed well bore. RD HES blender and RU new HES blender. Prime up and test. Good test. Resume and finish stage #27 frac. Plug, perf and frac stage #28 and #29. RIH and set plug for stage #30. Gun did not fire. POOH. , RBIH and perforate stage #30.	24.00	seiffert.contractor
21	10/2/2014 06:00	17.33	Continue 24 hr completion.	Perforate stage #30 at 11,673'. POOH. Frac stage #30. MU HES 3.60" kill plug. Test lube to 5,000 psi. RIH and set kill plug at 7,000' with 3,100 psi. POOH and bleed pressure to zero. SIW. RDMO Lone Wolf ELU and HES frac equipment. Turn well over to production group for drill out. Job complete. MIRU Basin rig #3 & surface equipment. ND well head. NU 5K bop's & Hydrill & pressure test bop's & Hydrill. RU floor. Tally & make up mud motor & test motor. RIH with BHA & picking up 208 joint's of 2 3/8" PH6 tubing. 6500'	24.00	seiffert.contractor
22	10/3/2014 06:00	18.33	Continue 24 hr completion	Continued to tally, drift tubing & pick up 15 joint's of 2 3/8" PH6 tubing. EOT @6964'. RU swivel & pump. Fill tubing. Swivel in & tag up on kill plug @7000'. Get circulation w/ 24 bbl's RIH w/ 2 jts Tag @ Kill plug @ 7000' Pump rate @ 2bbl's per min. Adjust manifold and hold 3000#. Pump rate of 2 bbl's per min. holding 2500# psi back pressure on manifold w/ 4000# psi. Pump 2 bbl's per min. Drill out Kill plug in 15 min's w/ No kick. Hang back swivel. Continue to Talley, and drift , RIH w/ 150 Jts of 2 3/8 P-110 high drill tbg Tag 1 frac plug @ 11713'. Drill out plugs @ 11713', 12026', 12339', 12,652', 12,979', 13,289', 13,605', 13,918', 14,232', 14,533', 14,857', 15,170', 15,487'	24.00	temptwilliams
23	10/4/2014 06:00	19.33	Continue 24 hr completion	Continued to drill out plug's from 15,782", 16,095', 16,408', 16,721', 17,034', 17,347', 17,670', 17,973', 18,286', 18,912', 19,225', 19,538', 19,858', 20,164', 20,477'. Swivel in to RSI sleeve @20706'. Pump sweep's with die & roll hole clean. Note circ joint's down from 16,150'. Flow well back 250 BPH with 1500 #psi on a 27/64 choke. Swivel out & LD 5 joint's. Stand swivel back. Pooh & continued to lay down tubing to 18,500'	24.00	temptwilliams
24	10/5/2014 06:00	20.33	Continue 24 hr completion	Continue to pooh & LD Work string to get EOT @3767'. MIRU snubbing unit. Snub remaining 3767' of 2 3/8" PH6 tubing & mud motor out of the hole. Tally & make up pump out plug, 2' x 2 3/8" L-80 pup joint, F-Nipple, Tally & drift 2 3/8" L-80 tubing & snub in the hole with production string with EOT @3687' at report time	24.00	tempmclure
25	10/7/2014 06:00	20.33	Flow Back Well	Flow back well per QEP operations request. All tickets are summed to this report. Costs include flow back, set up/removal of equipment and testing/replacing washed equipment.		05127
26	1/2/2015 06:00	20.33		CONTRACT WORK		50170

AFE - DRL-TU (tube up), 10/5/2014 06:00

Well Name RW 32-25A	Primary Job Type AFE - DRL-TU (tube up)	Secondary Job Type	Objective	Start Date 10/5/2014	Job End Date 10/6/2014
------------------------	--	--------------------	-----------	-------------------------	---------------------------

RW 32-25A

RPT #	End Date	Cum Time Log (days)	Current Ops	Summary	Time Log Hrs (hr)	syscreateuser
1	10/6/2014 06:00	0.63	Continued 24 hr completion	Shub production tubing in the hole & land with EOT @ 11680'. RD snubbing unit. ND bops. NU well head. Pump out plug w/ 3000# psi. w/ 55 BBL's. Shut in well. and turn over to flow back. RDMO	15.00	temptwilliams



Directional Survey

Well Name: RW 32-25A

API 43-047-51788		Surface Legal Location S25-T7S-R22E		Field Name RED WASH		County UINTAH		State UTAH		Well Configuration Type Horizontal	
Unique Well ID UT101923		Ground Elevation (ft) 5,509		Casing Flange Elevation (ft) 5,509.00		Current KB to GL (ft) 30.00		KB to CF (ft) 30.00		Spud Date 1/3/2014 12:00	
Dry Hole TD Date 9/3/2014 18:00		Wellbore Name Original Hole		Parent Wellbore Original Hole		Sidetrack Start Depth (ft, KB)		Vertical Section Direction (°) 196.45			
Date 6/13/2014		Definitive? Yes		Description Original Survey		Proposed? No					
MD Tie In (ft, KB) 0.00		TVD Tie In (ft, KB) 0.00		Inclination Tie In (°) 0.00		Azimuth Tie In (°) 0.00		NSTie In (ft) 0.00		EWTie In (ft) 0.00	

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)
0.00	0.00	0.00	MWD	6/13/2014	Phoeni...	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30.00	0.00	0.00	MWD	7/14/2014	Phoeni...	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152.00	0.40	179.40	MWD	6/13/2014	Phoeni...	152.00	-0.43	0.00	0.41	0.33	0.33	147.05	0.43
243.00	0.30	288.60	MWD	6/13/2014	Phoeni...	243.00	-0.67	-0.22	0.70	0.63	-0.11	120.00	0.75
335.00	0.10	301.60	MWD	6/13/2014	Phoeni...	335.00	-0.55	-0.51	0.67	0.22	-0.22	14.13	1.07
426.00	0.30	285.10	MWD	6/13/2014	Phoeni...	426.00	-0.44	-0.81	0.66	0.23	0.22	-18.13	1.39
518.00	0.40	351.50	MWD	6/13/2014	Phoeni...	518.00	-0.06	-1.09	0.37	0.43	0.11	72.17	1.86
610.00	0.20	317.80	MWD	6/13/2014	Phoeni...	609.99	0.37	-1.25	0.00	0.28	-0.22	-36.63	2.32
703.00	0.40	300.00	MWD	6/13/2014	Phoeni...	702.99	0.65	-1.64	-0.16	0.23	0.22	-19.14	2.81
795.00	0.40	3.90	MWD	6/13/2014	Phoeni...	794.99	1.14	-1.89	-0.55	0.46	0.00	-321.85	3.35
886.00	0.40	335.30	MWD	6/13/2014	Phoeni...	885.99	1.74	-2.01	-1.10	0.22	0.00	364.18	3.97
978.00	0.70	14.80	MWD	6/13/2014	Phoeni...	977.98	2.58	-2.00	-1.91	0.51	0.33	-348.37	4.80
1,072.00	0.70	358.60	MWD	6/13/2014	Phoeni...	1,071.98	3.71	-1.86	-3.03	0.21	0.00	365.74	5.94
1,168.00	0.70	23.90	MWD	6/13/2014	Phoeni...	1,167.97	4.83	-1.64	-4.17	0.32	0.00	-348.65	7.08
1,262.00	0.90	13.30	MWD	6/13/2014	Phoeni...	1,261.96	6.07	-1.24	-5.47	0.26	0.21	-11.28	8.39
1,356.00	0.80	24.30	MWD	6/14/2014	Phoeni...	1,355.95	7.39	-0.80	-6.86	0.20	-0.11	11.70	9.78
1,452.00	0.20	77.60	MWD	6/14/2014	Phoeni...	1,451.95	8.03	-0.36	-7.60	0.73	-0.63	55.52	10.56
1,547.00	0.50	51.90	MWD	6/14/2014	Phoeni...	1,546.95	8.33	0.13	-8.02	0.35	0.32	-27.05	11.13
1,642.00	0.60	62.90	MWD	6/14/2014	Phoeni...	1,641.94	8.81	0.90	-8.70	0.15	0.11	11.58	12.04
1,736.00	0.20	44.00	MWD	6/14/2014	Phoeni...	1,735.94	9.15	1.45	-9.19	0.44	-0.43	-20.11	12.69
1,831.00	0.20	176.20	MWD	6/14/2014	Phoeni...	1,830.94	9.10	1.58	-9.18	0.38	0.00	139.16	12.82
1,926.00	0.50	156.70	MWD	6/14/2014	Phoeni...	1,925.94	8.56	1.75	-8.70	0.34	0.32	-20.53	13.39
2,021.00	0.00	297.70	MWD	6/14/2014	Phoeni...	2,020.94	8.18	1.92	-8.39	0.53	-0.53	148.42	13.81
2,116.00	0.40	205.00	MWD	6/14/2014	Phoeni...	2,115.94	7.88	1.78	-8.06	0.42	0.42	-97.58	14.14
2,211.00	0.20	250.60	MWD	6/14/2014	Phoeni...	2,210.93	7.52	1.48	-7.63	0.31	-0.21	48.00	14.60
2,306.00	0.50	199.70	MWD	6/14/2014	Phoeni...	2,305.93	7.08	1.18	-7.12	0.43	0.32	-53.58	15.14
2,401.00	0.50	205.90	MWD	6/14/2014	Phoeni...	2,400.93	6.31	0.86	-6.30	0.06	0.00	6.53	15.97
2,496.00	0.40	180.00	MWD	6/14/2014	Phoeni...	2,495.93	5.61	0.68	-5.57	0.24	-0.11	-27.26	16.69
2,591.00	0.10	81.20	MWD	6/14/2014	Phoeni...	2,590.92	5.29	0.76	-5.29	0.45	-0.32	-104.00	17.02
2,686.00	0.20	78.50	MWD	6/14/2014	Phoeni...	2,685.92	5.34	1.01	-5.40	0.11	0.11	-2.84	17.27
2,781.00	0.20	91.20	MWD	6/14/2014	Phoeni...	2,780.92	5.36	1.34	-5.52	0.05	0.00	13.37	17.60
2,876.00	0.90	90.80	MWD	6/14/2014	Phoeni...	2,875.92	5.35	2.25	-5.77	0.74	0.74	-0.42	18.51
2,971.00	0.20	314.50	MWD	6/14/2014	Phoeni...	2,970.92	5.46	2.88	-6.05	1.11	-0.74	235.47	19.15
3,066.00	1.50	102.20	MWD	6/14/2014	Phoeni...	3,065.91	5.31	3.97	-6.22	1.76	1.37	-223.47	20.26
3,161.00	1.40	97.00	MWD	6/14/2014	Phoeni...	3,160.88	4.91	6.34	-6.50	0.17	-0.11	-5.47	22.66
3,256.00	1.70	101.20	MWD	6/15/2014	Phoeni...	3,255.84	4.49	8.87	-6.82	0.34	0.32	4.42	25.23
3,351.00	2.40	78.50	MWD	6/15/2014	Phoeni...	3,350.78	4.61	12.21	-7.88	1.11	0.74	-23.89	28.56
3,446.00	2.30	81.90	MWD	6/15/2014	Phoeni...	3,445.70	5.28	16.04	-9.61	0.18	-0.11	3.58	32.45
3,542.00	2.50	92.30	MWD	6/15/2014	Phoeni...	3,541.62	5.47	20.04	-10.92	0.50	0.21	10.83	36.46
3,636.00	0.90	144.40	MWD	6/15/2014	Phoeni...	3,635.58	4.78	22.52	-10.96	2.20	-1.70	55.43	39.03
3,731.00	0.90	121.00	MWD	6/15/2014	Phoeni...	3,730.57	3.79	23.59	-10.32	0.38	0.00	-24.63	40.49
3,826.00	1.30	123.20	MWD	6/15/2014	Phoeni...	3,825.55	2.82	25.13	-9.82	0.42	0.42	2.32	42.31
3,921.00	2.00	98.80	MWD	6/15/2014	Phoeni...	3,920.51	1.97	27.67	-9.73	1.03	0.74	-25.68	44.99
4,016.00	2.00	99.10	MWD	6/15/2014	Phoeni...	4,015.45	1.46	30.95	-10.16	0.01	0.00	0.32	48.30
4,050.00	2.00	85.50	MWD	6/15/2014	Phoeni...	4,049.43	1.41	32.13	-10.45	1.39	0.00	-40.00	49.48
4,192.00	1.50	83.90	MWD	6/18/2014	Phoeni...	4,191.36	1.80	36.45	-12.05	0.35	-0.35	-1.13	53.82
4,286.00	1.50	84.20	MWD	6/18/2014	Phoeni...	4,285.33	2.06	38.89	-12.99	0.01	0.00	0.32	56.28



Directional Survey

Well Name: RW 32-25A

API 43-047-51788		Surface Legal Location S25-T7S-R22E			Field Name RED WASH		County UINTAH		State UTAH		Well Configuration Type Horizontal	
Unique Well ID UT101923		Ground Elevation (ft) 5,509		Casing Flange Elevation (ft) 5,509.00		Current KB to GL (ft) 30.00		KB to CF (ft) 30.00		Spud Date 1/3/2014 12:00		Dry Hole TD Date 9/3/2014 18:00

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)
4,382.00	1.60	90.40	MWD	6/18/2014	Phoeni...	4,381.30	2.18	41.48	-13.83	0.20	0.10	6.46	58.87
4,476.00	1.90	81.50	MWD	6/18/2014	Phoeni...	4,475.25	2.40	44.34	-14.85	0.43	0.32	-9.47	61.73
4,571.00	1.70	80.20	MWD	6/18/2014	Phoeni...	4,570.21	2.87	47.28	-16.14	0.21	-0.21	-1.37	64.72
4,666.00	1.60	88.10	MWD	6/18/2014	Phoeni...	4,665.17	3.15	50.00	-17.18	0.26	-0.11	8.32	67.45
4,762.00	1.80	75.20	MWD	6/18/2014	Phoeni...	4,761.12	3.58	52.79	-18.39	0.45	0.21	-13.44	70.28
4,859.00	1.90	74.60	MWD	6/18/2014	Phoeni...	4,858.07	4.40	55.82	-20.03	0.11	0.10	-0.62	73.41
4,952.00	1.80	83.20	MWD	6/18/2014	Phoeni...	4,951.03	4.98	58.75	-21.42	0.32	-0.11	9.25	76.40
5,047.00	1.60	85.10	MWD	6/18/2014	Phoeni...	5,045.98	5.27	61.56	-22.49	0.22	-0.21	2.00	79.22
5,142.00	1.30	74.70	MWD	6/18/2014	Phoeni...	5,140.95	5.67	63.92	-23.54	0.42	-0.32	-10.95	81.61
5,237.00	1.60	81.90	MWD	6/18/2014	Phoeni...	5,235.92	6.14	66.27	-24.66	0.37	0.32	7.58	84.01
5,333.00	1.30	71.20	MWD	6/18/2014	Phoeni...	5,331.89	6.68	68.63	-25.84	0.42	-0.31	-11.15	86.43
5,428.00	1.50	85.70	MWD	6/18/2014	Phoeni...	5,426.86	7.12	70.89	-26.90	0.43	0.21	15.26	88.73
5,523.00	1.00	92.30	MWD	6/18/2014	Phoeni...	5,521.84	7.18	72.96	-27.55	0.55	-0.53	6.95	90.80
5,618.00	0.90	86.10	MWD	6/18/2014	Phoeni...	5,616.83	7.20	74.53	-28.01	0.15	-0.11	-6.53	92.38
5,713.00	1.30	105.00	MWD	6/18/2014	Phoeni...	5,711.81	6.97	76.31	-28.30	0.56	0.42	19.89	94.18
5,808.00	1.20	120.10	MWD	6/18/2014	Phoeni...	5,806.79	6.19	78.22	-28.09	0.36	-0.11	15.89	96.23
5,902.00	1.10	131.90	MWD	6/18/2014	Phoeni...	5,900.77	5.10	79.74	-27.47	0.27	-0.11	12.55	98.11
5,998.00	1.10	121.00	MWD	6/18/2014	Phoeni...	5,996.75	4.01	81.21	-26.84	0.22	0.00	-11.35	99.94
6,093.00	0.60	179.90	MWD	6/18/2014	Phoeni...	6,091.74	3.04	82.00	-26.13	0.99	-0.53	62.00	101.19
6,188.00	0.90	205.50	MWD	6/18/2014	Phoeni...	6,186.73	1.87	81.68	-24.92	0.47	0.32	26.95	102.40
6,283.00	1.00	201.40	MWD	6/18/2014	Phoeni...	6,281.72	0.42	81.05	-23.36	0.13	0.11	-4.32	103.97
6,379.00	1.10	199.40	MWD	6/18/2014	Phoeni...	6,377.71	-1.23	80.44	-21.60	0.11	0.10	-2.08	105.73
6,474.00	1.30	186.80	MWD	6/18/2014	Phoeni...	6,472.68	-3.16	80.01	-19.63	0.35	0.21	-13.26	107.71
6,569.00	1.10	193.10	MWD	6/18/2014	Phoeni...	6,567.66	-5.11	79.68	-17.66	0.25	-0.21	6.63	109.70
6,664.00	0.90	183.20	MWD	6/18/2014	Phoeni...	6,662.65	-6.75	79.43	-16.02	0.28	-0.21	-10.42	111.35
6,759.00	1.30	178.50	MWD	6/18/2014	Phoeni...	6,757.63	-8.57	79.42	-14.27	0.43	0.42	-4.95	113.17
6,854.00	1.20	159.90	MWD	6/20/2014	Phoeni...	6,852.61	-10.58	79.79	-12.45	0.44	-0.11	-19.58	115.22
6,949.00	1.40	272.90	MWD	6/20/2014	Phoeni...	6,947.60	-11.46	78.97	-11.37	2.29	0.21	118.95	116.41
7,044.00	2.00	281.10	MWD	6/20/2014	Phoeni...	7,042.55	-11.08	76.18	-10.95	0.68	0.63	8.63	119.23
7,140.00	2.50	280.80	MWD	6/20/2014	Phoeni...	7,138.48	-10.36	72.48	-10.59	0.52	0.52	-0.31	122.99
7,235.00	2.50	275.20	MWD	6/20/2014	Phoeni...	7,233.39	-9.79	68.38	-9.98	0.26	0.00	-5.89	127.13
7,330.00	2.60	273.50	MWD	6/20/2014	Phoeni...	7,328.30	-9.47	64.17	-9.09	0.13	0.11	-1.79	131.36
7,425.00	2.90	271.40	MWD	6/20/2014	Phoeni...	7,423.19	-9.28	59.62	-7.98	0.33	0.32	-2.21	135.92
7,520.00	1.60	244.60	MWD	6/20/2014	Phoeni...	7,518.11	-9.79	56.02	-6.47	1.73	-1.37	-28.21	139.55
7,615.00	1.30	235.40	MWD	6/21/2014	Phoeni...	7,613.08	-10.97	53.93	-4.75	0.40	-0.32	-9.68	141.95
7,711.00	1.20	237.30	MWD	6/21/2014	Phoeni...	7,709.06	-12.13	52.19	-3.14	0.11	-0.10	1.98	144.04
7,806.00	1.10	221.40	MWD	6/21/2014	Phoeni...	7,804.04	-13.35	50.75	-1.56	0.35	-0.11	-16.74	145.93
7,901.00	1.70	212.40	MWD	6/21/2014	Phoeni...	7,899.01	-15.23	49.39	0.62	0.67	0.63	-9.47	148.25
7,996.00	1.20	228.90	MWD	6/21/2014	Phoeni...	7,993.98	-17.07	47.88	2.81	0.68	-0.53	17.37	150.63
8,091.00	1.10	243.20	MWD	6/21/2014	Phoeni...	8,088.96	-18.14	46.32	4.28	0.32	-0.11	15.05	152.52
8,186.00	1.00	235.50	MWD	6/21/2014	Phoeni...	8,183.95	-19.02	44.82	5.54	0.18	-0.11	-8.11	154.25
8,281.00	1.00	224.10	MWD	6/21/2014	Phoeni...	8,278.93	-20.08	43.56	6.92	0.21	0.00	-12.00	155.90
8,376.00	1.50	262.70	MWD	6/21/2014	Phoeni...	8,373.91	-20.83	41.75	8.16	1.00	0.53	40.63	157.87
8,471.00	1.50	266.50	MWD	6/21/2014	Phoeni...	8,468.88	-21.07	39.28	9.08	0.10	0.00	4.00	160.35
8,567.00	1.50	254.10	MWD	6/21/2014	Phoeni...	8,564.85	-21.49	36.82	10.18	0.34	0.00	-12.92	162.85
8,661.00	1.30	240.30	MWD	6/21/2014	Phoeni...	8,658.82	-22.35	34.71	11.61	0.42	-0.21	-14.68	165.13
8,756.00	1.10	228.30	MWD	6/21/2014	Phoeni...	8,753.80	-23.49	33.09	13.16	0.34	-0.21	-12.63	167.11
8,851.00	1.10	220.50	MWD	6/21/2014	Phoeni...	8,848.78	-24.79	31.82	14.77	0.16	0.00	-8.21	168.93
8,947.00	1.20	213.00	MWD	6/21/2014	Phoeni...	8,944.76	-26.34	30.67	16.57	0.19	0.10	-7.81	170.85
9,042.00	1.40	238.20	MWD	6/23/2014	Phoeni...	9,039.74	-27.78	29.14	18.39	0.63	0.21	26.53	172.95
9,137.00	0.70	236.90	MWD	6/23/2014	Phoeni...	9,134.72	-28.71	27.67	19.70	0.74	-0.74	-1.37	174.69



Directional Survey

Well Name: RW 32-25A

API 43-047-51788	Surface Legal Location S25-T7S-R22E	Field Name RED WASH	County UINTAH	State UTAH	Well Configuration Type Horizontal
Unique Well ID UT101923	Ground Elevation (ft) 5,509	Casing Flange Elevation (ft) 5,509.00	Current KB to GL (ft) 30.00	KB to CF (ft) 30.00	Spud Date 1/3/2014 12:00
					Dry Hole TD Date 9/3/2014 18:00

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)
9,232.00	1.80	318.50	MWD	6/23/2014	Phoeni...	9,229.70	-27.91	26.20	19.35	1.93	1.16	85.89	176.37
9,327.00	2.20	326.60	MWD	6/23/2014	Phoeni...	9,324.64	-25.27	24.20	17.38	0.51	0.42	8.53	179.68
9,422.00	1.80	329.50	MWD	6/23/2014	Phoeni...	9,419.59	-22.46	22.44	15.19	0.43	-0.42	3.05	182.99
9,517.00	1.30	333.80	MWD	6/23/2014	Phoeni...	9,514.55	-20.21	21.21	13.38	0.54	-0.53	4.53	185.56
9,612.00	1.10	349.80	MWD	6/23/2014	Phoeni...	9,609.53	-18.35	20.57	11.77	0.41	-0.21	16.84	187.53
9,707.00	1.00	5.00	MWD	6/23/2014	Phoeni...	9,704.51	-16.62	20.48	10.14	0.31	-0.11	-362.95	189.26
9,802.00	0.80	12.00	MWD	6/23/2014	Phoeni...	9,799.50	-15.15	20.69	8.67	0.24	-0.21	7.37	190.75
9,897.00	0.70	7.50	MWD	6/23/2014	Phoeni...	9,894.49	-13.93	20.91	7.44	0.12	-0.11	-4.74	191.99
9,993.00	0.40	357.00	MWD	6/23/2014	Phoeni...	9,990.49	-13.01	20.97	6.54	0.33	-0.31	364.06	192.91
10,087.00	0.20	98.10	MWD	6/23/2014	Phoeni...	10,084.49	-12.71	21.11	6.21	0.51	-0.21	-275.43	193.25
10,182.00	0.30	73.50	MWD	6/23/2014	Phoeni...	10,179.49	-12.66	21.51	6.05	0.15	0.11	-25.89	193.65
10,278.00	0.40	109.50	MWD	6/23/2014	Phoeni...	10,275.49	-12.70	22.07	5.93	0.25	0.10	37.50	194.21
10,373.00	0.80	127.20	MWD	6/23/2014	Phoeni...	10,370.48	-13.21	22.91	6.18	0.46	0.42	18.63	195.19
10,468.00	0.80	169.00	MWD	6/23/2014	Phoeni...	10,465.47	-14.26	23.57	7.00	0.60	0.00	44.00	196.43
10,563.00	1.00	155.80	MWD	6/23/2014	Phoeni...	10,560.46	-15.67	24.03	8.22	0.30	0.21	-13.89	197.92
10,658.00	1.10	155.00	MWD	6/23/2014	Phoeni...	10,655.45	-17.25	24.76	9.53	0.11	0.11	-0.84	199.66
10,752.00	1.50	152.50	MWD	6/23/2014	Phoeni...	10,749.42	-19.16	25.71	11.10	0.43	0.43	-2.66	201.79
10,847.00	1.50	162.80	MWD	6/24/2014	Phoeni...	10,844.39	-21.45	26.65	13.03	0.28	0.00	10.84	204.26
10,947.00	5.10	165.40	MWD	6/25/2014	Phoeni...	10,944.21	-27.00	28.16	17.93	3.60	3.60	2.60	210.02
10,979.00	8.40	173.40	MWD	6/25/2014	Phoeni...	10,975.98	-30.70	28.78	21.30	10.70	10.31	25.00	213.77
11,071.00	11.50	169.30	MWD	6/25/2014	Phoeni...	11,007.50	-36.16	29.65	26.29	9.93	9.69	-12.81	219.30
11,043.00	13.40	168.70	MWD	6/25/2014	Phoeni...	11,038.74	-42.93	30.96	32.41	5.95	5.94	-1.88	226.19
11,075.00	13.30	167.70	MWD	6/25/2014	Phoeni...	11,069.88	-50.17	32.47	38.92	0.79	-0.31	-3.13	233.58
11,106.00	12.50	173.80	MWD	6/26/2014	Phoeni...	11,100.10	-56.98	33.60	45.14	5.09	-2.58	19.68	240.49
11,138.00	11.90	180.30	MWD	6/26/2014	Phoeni...	11,131.37	-63.73	33.95	51.50	4.68	-1.88	20.31	247.25
11,170.00	11.50	180.00	MWD	6/26/2014	Phoeni...	11,162.71	-70.22	33.94	57.73	1.26	-1.25	-0.94	253.74
11,202.00	11.70	178.40	MWD	6/26/2014	Phoeni...	11,194.06	-76.65	34.03	63.88	1.18	0.62	-5.00	260.17
11,233.00	14.00	176.30	MWD	6/26/2014	Phoeni...	11,224.28	-83.53	34.36	70.39	7.57	7.42	-6.77	267.06
11,265.00	17.80	177.80	MWD	6/26/2014	Phoeni...	11,255.05	-92.29	34.79	78.66	11.94	11.88	4.69	275.83
11,296.00	21.50	179.90	MWD	6/26/2014	Phoeni...	11,284.24	-102.71	34.99	88.60	12.15	11.94	6.77	286.25
11,327.00	24.80	183.60	MWD	6/26/2014	Phoeni...	11,312.74	-114.88	34.59	100.38	11.63	10.65	11.94	298.43
11,359.00	27.30	189.80	MWD	6/26/2014	Phoeni...	11,341.49	-128.81	32.92	114.22	11.54	7.81	19.38	312.46
11,390.00	29.10	197.10	MWD	6/26/2014	Phoeni...	11,368.82	-143.03	29.49	128.83	12.54	5.81	23.55	327.08
11,422.00	31.90	198.80	MWD	6/26/2014	Phoeni...	11,396.39	-158.48	24.47	145.06	9.16	8.75	5.31	343.32
11,453.00	35.70	197.10	MWD	6/26/2014	Phoeni...	11,422.15	-174.88	19.17	162.29	12.63	12.26	-5.48	360.56
11,485.00	38.50	196.80	MWD	7/9/2014	Phoeni...	11,447.67	-193.34	13.55	181.59	8.77	8.75	-0.94	379.86
11,517.00	42.20	197.00	MWD	7/9/2014	Phoeni...	11,472.05	-213.16	7.53	202.31	11.57	11.56	0.62	400.58
11,548.00	45.00	199.30	MWD	7/9/2014	Phoeni...	11,494.50	-233.47	0.86	223.67	10.38	9.03	7.42	421.95
11,580.00	48.70	199.20	MWD	6/26/2014	Phoeni...	11,516.38	-255.51	-6.84	246.98	11.56	11.56	-0.31	445.29
11,612.00	52.10	197.50	MWD	6/27/2014	Phoeni...	11,536.77	-278.91	-14.59	271.62	11.39	10.63	-5.31	469.95
11,643.00	55.50	197.10	MWD	6/27/2014	Phoeni...	11,555.08	-302.79	-22.03	296.63	11.02	10.97	-1.29	494.96
11,675.00	57.90	199.30	MWD	6/27/2014	Phoeni...	11,572.65	-328.19	-30.39	323.36	9.45	7.50	6.88	521.70
11,707.00	61.10	200.20	MWD	6/27/2014	Phoeni...	11,588.89	-354.13	-39.70	350.88	10.29	10.00	2.81	549.27
11,739.00	65.10	200.60	MWD	6/27/2014	Phoeni...	11,603.36	-380.88	-49.65	379.35	12.55	12.50	1.25	577.80
11,770.00	67.20	200.20	MWD	6/27/2014	Phoeni...	11,615.90	-407.45	-59.53	407.63	6.88	6.77	-1.29	606.15
11,802.00	69.10	199.70	MWD	6/27/2014	Phoeni...	11,627.81	-435.37	-69.67	437.27	6.11	5.94	-1.56	635.85
11,833.00	72.00	199.60	MWD	6/27/2014	Phoeni...	11,638.13	-462.89	-79.49	466.46	9.36	9.35	-0.32	665.08
11,865.00	75.20	199.00	MWD	6/27/2014	Phoeni...	11,647.16	-491.86	-89.64	497.11	10.16	10.00	-1.87	695.77
11,897.00	78.20	198.70	MWD	6/27/2014	Phoeni...	11,654.52	-521.33	-99.70	528.22	9.42	9.38	-0.94	726.91
11,929.00	82.70	199.20	MWD	6/27/2014	Phoeni...	11,659.83	-551.17	-109.94	559.74	14.15	14.06	1.56	758.46
11,961.00	86.20	199.30	MWD	6/28/2014	Phoeni...	11,662.93	-581.23	-120.44	591.55	10.94	10.94	0.31	790.30



Directional Survey

Well Name: RW 32-25A

API 43-047-51788		Surface Legal Location S25-T7S-R22E			Field Name RED WASH		County UINTAH		State UTAH		Well Configuration Type Horizontal	
Unique Well ID UT101923		Ground Elevation (ft) 5,509		Casing Flange Elevation (ft) 5,509.00		Current KB to GL (ft) 30.00		KB to CF (ft) 30.00		Spud Date 1/3/2014 12:00		Dry Hole TD Date 9/3/2014 18:00

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)
12,021.00	89.50	198.90	MWD	7/5/2014	Phoeni...	11,665.18	-637.88	-140.06	651.43	5.54	5.50	-0.67	850.25
12,052.00	89.70	198.30	MWD	7/5/2014	Phoeni...	11,665.39	-667.26	-149.95	682.41	2.04	0.65	-1.94	881.25
12,084.00	90.20	198.70	MWD	7/6/2014	Phoeni...	11,665.42	-697.61	-160.10	714.39	2.00	1.56	1.25	913.25
12,115.00	89.70	198.90	MWD	7/6/2014	Phoeni...	11,665.45	-726.95	-170.09	745.36	1.74	-1.61	0.65	944.25
12,147.00	89.80	199.10	MWD	7/6/2014	Phoeni...	11,665.59	-757.21	-180.51	777.33	0.70	0.31	0.62	976.25
12,178.00	89.70	198.10	MWD	7/6/2014	Phoeni...	11,665.72	-786.59	-190.40	808.31	3.24	-0.32	-3.23	1,007.25
12,210.00	90.50	198.10	MWD	7/6/2014	Phoeni...	11,665.67	-817.01	-200.34	840.30	2.50	2.50	0.00	1,039.25
12,241.00	91.40	197.80	MWD	7/6/2014	Phoeni...	11,665.15	-846.49	-209.89	871.28	3.06	2.90	-0.97	1,070.24
12,273.00	92.00	197.50	MWD	7/6/2014	Phoeni...	11,664.20	-876.97	-219.59	903.26	2.10	1.87	-0.94	1,102.23
12,304.00	91.80	197.20	MWD	7/6/2014	Phoeni...	11,663.18	-906.55	-228.83	934.24	1.16	-0.65	-0.97	1,133.21
12,336.00	91.70	196.90	MWD	7/7/2014	Phoeni...	11,662.20	-937.13	-238.21	966.22	0.99	-0.31	-0.94	1,165.20
12,374.00	91.80	197.10	MWD	7/8/2014	Phoeni...	11,661.04	-973.45	-249.31	1,004.20	0.59	0.26	0.53	1,203.18
12,405.00	92.70	197.30	MWD	7/8/2014	Phoeni...	11,659.82	-1,003.04	-258.47	1,035.18	2.97	2.90	0.65	1,234.16
12,437.00	93.00	198.00	MWD	7/8/2014	Phoeni...	11,658.23	-1,033.50	-268.16	1,067.13	2.38	0.94	2.19	1,266.12
12,468.00	93.60	198.10	MWD	7/8/2014	Phoeni...	11,656.45	-1,062.92	-277.75	1,098.07	1.96	1.94	0.32	1,297.07
12,499.00	94.20	198.80	MWD	7/8/2014	Phoeni...	11,654.34	-1,092.26	-287.54	1,128.97	2.97	1.94	2.26	1,327.99
12,531.00	93.10	199.60	MWD	7/8/2014	Phoeni...	11,652.30	-1,122.42	-298.04	1,160.87	4.25	-3.44	2.50	1,359.93
12,562.00	93.50	199.70	MWD	7/8/2014	Phoeni...	11,650.51	-1,151.56	-308.45	1,191.77	1.33	1.29	0.32	1,390.88
12,594.00	93.10	199.60	MWD	7/8/2014	Phoeni...	11,648.67	-1,181.65	-319.19	1,223.67	1.29	-1.25	-0.31	1,422.82
12,625.00	92.40	200.20	MWD	7/9/2014	Phoeni...	11,647.19	-1,210.76	-329.73	1,254.58	2.97	-2.26	1.94	1,453.79
12,657.00	92.00	200.20	MWD	7/8/2014	Phoeni...	11,645.96	-1,240.77	-340.77	1,286.49	1.25	-1.25	0.00	1,485.76
12,688.00	91.40	199.60	MWD	7/8/2014	Phoeni...	11,645.04	-1,269.91	-351.32	1,317.41	2.74	-1.94	-1.94	1,516.75
12,720.00	91.40	200.00	MWD	7/9/2014	Phoeni...	11,644.26	-1,300.01	-362.15	1,349.35	1.25	0.00	1.25	1,548.74
12,751.00	91.30	199.70	MWD	7/9/2014	Phoeni...	11,643.53	-1,329.16	-372.68	1,380.29	1.02	-0.32	-0.97	1,579.73
12,783.00	91.30	200.30	MWD	7/9/2014	Phoeni...	11,642.80	-1,359.22	-383.62	1,412.22	1.87	0.00	1.88	1,611.72
12,814.00	91.40	200.50	MWD	7/9/2014	Phoeni...	11,642.07	-1,388.27	-394.42	1,443.14	0.72	0.32	0.65	1,642.71
12,846.00	91.80	200.80	MWD	7/9/2014	Phoeni...	11,641.18	-1,418.20	-405.70	1,475.04	1.56	1.25	0.94	1,674.70
12,877.00	91.90	200.40	MWD	7/9/2014	Phoeni...	11,640.17	-1,447.20	-416.60	1,505.94	1.33	0.32	-1.29	1,705.68
12,923.00	92.00	201.50	MWD	7/9/2014	Phoeni...	11,638.61	-1,490.14	-433.04	1,551.77	2.40	0.22	2.39	1,751.66
12,971.00	92.60	201.20	MWD	7/9/2014	Phoeni...	11,636.68	-1,534.81	-450.50	1,599.56	1.40	1.25	-0.63	1,799.62
13,003.00	94.90	201.70	MWD	7/9/2014	Phoeni...	11,634.59	-1,564.53	-462.18	1,631.36	7.35	7.19	1.56	1,831.55
13,034.00	95.80	202.60	MWD	7/10/2014	Phoeni...	11,631.70	-1,593.11	-473.82	1,662.08	4.10	2.90	2.90	1,862.41
13,066.00	95.20	201.80	MWD	7/11/2014	Phoeni...	11,628.63	-1,622.60	-485.85	1,693.77	3.12	-1.87	-2.50	1,894.26
13,098.00	95.30	201.90	MWD	7/11/2014	Phoeni...	11,625.70	-1,652.18	-497.71	1,725.49	0.44	0.31	0.31	1,926.13
13,129.00	94.90	201.40	MWD	7/12/2014	Phoeni...	11,622.95	-1,680.88	-509.10	1,756.24	2.06	-1.29	-1.61	1,957.01
13,161.00	93.30	201.00	MWD	7/12/2014	Phoeni...	11,620.66	-1,710.64	-520.64	1,788.05	5.15	-5.00	-1.25	1,988.92
13,192.00	91.00	200.90	MWD	7/12/2014	Phoeni...	11,619.50	-1,739.56	-531.72	1,818.93	7.43	-7.42	-0.32	2,019.90
13,223.00	90.70	199.70	MWD	7/12/2014	Phoeni...	11,619.04	-1,768.63	-542.47	1,849.86	3.99	-0.97	-3.87	2,050.90
13,255.00	90.30	199.00	MWD	7/12/2014	Phoeni...	11,618.76	-1,798.83	-553.08	1,881.81	2.52	-1.25	-2.19	2,082.89
13,286.00	90.60	198.80	MWD	7/12/2014	Phoeni...	11,618.52	-1,828.15	-563.12	1,912.78	1.16	0.97	-0.65	2,113.89
13,318.00	91.00	199.00	MWD	7/12/2014	Phoeni...	11,618.07	-1,858.42	-573.48	1,944.75	1.40	1.25	0.62	2,145.89
13,349.00	91.50	199.40	MWD	7/12/2014	Phoeni...	11,617.39	-1,887.69	-583.67	1,975.71	2.07	1.61	1.29	2,176.88
13,381.00	90.30	199.00	MWD	7/12/2014	Phoeni...	11,616.89	-1,917.91	-594.20	2,007.67	3.95	-3.75	-1.25	2,208.88
13,412.00	89.70	198.60	MWD	7/12/2014	Phoeni...	11,616.89	-1,947.26	-604.19	2,038.64	2.33	-1.94	-1.29	2,239.88
13,444.00	90.10	198.70	MWD	7/12/2014	Phoeni...	11,616.95	-1,977.57	-614.42	2,070.62	1.29	1.25	0.31	2,271.88
13,475.00	89.80	198.50	MWD	7/12/2014	Phoeni...	11,616.97	-2,006.96	-624.31	2,101.60	1.16	-0.97	-0.65	2,302.88
13,507.00	86.90	196.80	MWD	7/13/2014	Phoeni...	11,617.89	-2,037.43	-634.00	2,133.57	10.50	-9.06	-5.31	2,334.86
13,538.00	86.60	196.90	MWD	7/13/2014	Phoeni...	11,619.65	-2,067.05	-642.98	2,164.52	1.02	-0.97	0.32	2,365.81
13,569.00	86.70	197.10	MWD	7/13/2014	Phoeni...	11,621.46	-2,096.65	-652.02	2,195.47	0.72	0.32	0.65	2,396.76
13,601.00	87.30	196.50	MWD	7/13/2014	Phoeni...	11,623.14	-2,127.24	-661.26	2,227.42	2.65	1.87	-1.87	2,428.71
13,632.00	87.90	195.90	MWD	7/13/2014	Phoeni...	11,624.44	-2,156.98	-669.90	2,258.39	2.74	1.94	-1.94	2,459.69



Directional Survey

Well Name: RW 32-25A

API 43-047-51788		Surface Legal Location S25-T7S-R22E		Field Name RED WASH		County UINTAH		State UTAH		Well Configuration Type Horizontal	
Unique Well ID UT101923		Ground Elevation (ft) 5,509		Casing Flange Elevation (ft) 5,509.00		Current KB to GL (ft) 30.00		KB to CF (ft) 30.00		Spud Date 1/3/2014 12:00	
										Dry Hole TD Date 9/3/2014 18:00	

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)
13,664.00	88.50	195.70	MWD	7/13/2014	Phoeni...	11,625.44	-2,187.76	-678.61	2,290.37	1.98	1.88	-0.63	2,491.67
13,696.00	88.80	195.90	MWD	7/13/2014	Phoeni...	11,626.20	-2,218.54	-687.32	2,322.36	1.13	0.94	0.63	2,523.66
13,727.00	89.30	196.60	MWD	7/13/2014	Phoeni...	11,626.71	-2,248.30	-695.99	2,353.36	2.77	1.61	2.26	2,554.66
13,759.00	89.50	196.40	MWD	7/13/2014	Phoeni...	11,627.04	-2,278.98	-705.08	2,385.36	0.88	0.63	-0.62	2,586.65
13,790.00	89.50	196.20	MWD	7/13/2014	Phoeni...	11,627.31	-2,308.73	-713.78	2,416.36	0.65	0.00	-0.65	2,617.65
13,822.00	89.80	196.10	MWD	7/13/2014	Phoeni...	11,627.51	-2,339.47	-722.68	2,448.35	0.99	0.94	-0.31	2,649.65
13,853.00	90.20	196.20	MWD	7/13/2014	Phoeni...	11,627.51	-2,369.24	-731.30	2,479.35	1.33	1.29	0.32	2,680.65
13,885.00	89.40	195.60	MWD	7/13/2014	Phoeni...	11,627.62	-2,400.02	-740.07	2,511.35	3.12	-2.50	-1.87	2,712.65
13,917.00	89.80	195.70	MWD	7/13/2014	Phoeni...	11,627.85	-2,430.83	-748.70	2,543.35	1.29	1.25	0.31	2,744.65
13,949.00	89.60	195.60	MWD	7/14/2014	Phoeni...	11,628.01	-2,461.65	-757.34	2,575.34	0.70	-0.63	-0.31	2,776.65
13,980.00	88.90	194.90	MWD	7/14/2014	Phoeni...	11,628.42	-2,491.55	-765.49	2,606.33	3.19	-2.26	-2.26	2,807.65
14,012.00	88.50	194.50	MWD	7/14/2014	Phoeni...	11,629.14	-2,522.50	-773.61	2,638.31	1.77	-1.25	-1.25	2,839.64
14,042.00	89.00	194.90	MWD	7/15/2014	Phoeni...	11,629.80	-2,551.51	-781.22	2,668.29	2.13	1.67	1.33	2,869.63
14,073.00	89.20	195.20	MWD	7/15/2014	Phoeni...	11,630.29	-2,581.44	-789.27	2,699.28	1.16	0.65	0.97	2,900.63
14,105.00	89.50	194.90	MWD	7/15/2014	Phoeni...	11,630.65	-2,612.34	-797.57	2,731.27	1.33	0.94	-0.94	2,932.63
14,137.00	89.70	193.50	MWD	7/15/2014	Phoeni...	11,630.87	-2,643.36	-805.42	2,763.24	4.42	0.63	-4.38	2,964.62
14,168.00	89.80	193.50	MWD	7/15/2014	Phoeni...	11,631.01	-2,673.50	-812.66	2,794.20	0.32	0.32	0.00	2,995.62
14,200.00	90.20	193.60	MWD	7/15/2014	Phoeni...	11,631.01	-2,704.61	-820.16	2,826.16	1.29	1.25	0.31	3,027.62
14,231.00	90.40	194.40	MWD	7/15/2014	Phoeni...	11,630.85	-2,734.69	-827.66	2,857.13	2.66	0.65	2.58	3,058.62
14,262.00	90.80	194.40	MWD	7/15/2014	Phoeni...	11,630.52	-2,764.72	-835.37	2,888.11	1.29	1.29	0.00	3,089.62
14,293.00	91.30	196.40	MWD	7/15/2014	Phoeni...	11,629.95	-2,794.60	-843.60	2,919.09	6.65	1.61	6.45	3,120.61
14,324.00	91.40	196.30	MWD	7/15/2014	Phoeni...	11,629.22	-2,824.33	-852.32	2,950.09	0.46	0.32	-0.32	3,151.61
14,356.00	90.80	195.20	MWD	7/15/2014	Phoeni...	11,628.61	-2,855.13	-861.01	2,982.08	3.92	-1.88	-3.44	3,183.60
14,387.00	90.00	194.10	MWD	7/15/2014	Phoeni...	11,628.39	-2,885.12	-868.85	3,013.06	4.39	-2.58	-3.55	3,214.60
14,419.00	90.50	194.40	MWD	7/16/2014	Phoeni...	11,628.25	-2,916.13	-876.72	3,045.04	1.82	1.56	0.94	3,246.60
14,450.00	90.60	194.70	MWD	7/16/2014	Phoeni...	11,627.95	-2,946.14	-884.51	3,076.02	1.02	0.32	0.97	3,277.60
14,481.00	90.20	193.90	MWD	7/16/2014	Phoeni...	11,627.74	-2,976.18	-892.17	3,106.99	2.89	-1.29	-2.58	3,308.60
14,513.00	89.90	193.70	MWD	7/16/2014	Phoeni...	11,627.71	-3,007.25	-899.80	3,138.96	1.13	-0.94	-0.63	3,340.60
14,544.00	90.70	193.90	MWD	7/16/2014	Phoeni...	11,627.55	-3,037.36	-907.19	3,169.93	2.66	2.58	0.65	3,371.59
14,576.00	91.60	194.50	MWD	7/16/2014	Phoeni...	11,626.91	-3,068.37	-915.04	3,201.89	3.38	2.81	1.87	3,403.59
14,607.00	91.00	193.90	MWD	7/16/2014	Phoeni...	11,626.20	-3,098.42	-922.64	3,232.86	2.74	-1.94	-1.94	3,434.58
14,638.00	91.30	194.30	MWD	7/16/2014	Phoeni...	11,625.58	-3,128.48	-930.20	3,263.83	1.61	0.97	1.29	3,465.57
14,669.00	92.80	195.90	MWD	7/16/2014	Phoeni...	11,624.47	-3,158.38	-938.27	3,294.80	7.07	4.84	5.16	3,496.55
14,701.00	90.20	193.90	MWD	7/16/2014	Phoeni...	11,623.63	-3,189.29	-946.49	3,326.77	10.25	-8.12	-6.25	3,528.54
14,732.00	85.70	191.50	MWD	7/16/2014	Phoeni...	11,624.74	-3,219.51	-953.30	3,357.68	16.45	-14.52	-7.74	3,559.51
14,760.00	85.30	191.90	MWD	7/18/2014	Phoeni...	11,626.94	-3,246.84	-958.96	3,385.49	2.02	-1.43	1.43	3,587.42
14,791.00	85.30	192.00	MWD	7/18/2014	Phoeni...	11,629.48	-3,277.07	-965.36	3,416.29	0.32	0.00	0.32	3,618.32
14,823.00	85.20	191.50	MWD	7/18/2014	Phoeni...	11,632.13	-3,308.29	-971.85	3,448.08	1.59	-0.31	-1.56	3,650.21
14,854.00	85.10	192.00	MWD	7/18/2014	Phoeni...	11,634.75	-3,338.53	-978.14	3,478.86	1.64	-0.32	1.61	3,681.09
14,886.00	85.70	191.80	MWD	7/18/2014	Phoeni...	11,637.32	-3,369.74	-984.72	3,510.66	1.98	1.88	-0.62	3,712.99
14,917.00	87.10	192.30	MWD	7/18/2014	Phoeni...	11,639.26	-3,400.00	-991.18	3,541.51	4.79	4.52	1.61	3,743.93
14,949.00	87.60	192.30	MWD	7/18/2014	Phoeni...	11,640.74	-3,431.23	-997.99	3,573.39	1.56	1.56	0.00	3,775.89
14,980.00	87.70	192.30	MWD	7/18/2014	Phoeni...	11,642.01	-3,461.49	-1,004.58	3,604.28	0.32	0.32	0.00	3,806.87
15,012.00	87.30	192.40	MWD	7/18/2014	Phoeni...	11,643.41	-3,492.72	-1,011.42	3,636.17	1.29	-1.25	0.31	3,838.84
15,043.00	88.50	192.30	MWD	7/18/2014	Phoeni...	11,644.55	-3,522.98	-1,018.05	3,667.07	3.88	3.87	-0.32	3,869.82
15,075.00	89.20	192.60	MWD	7/19/2014	Phoeni...	11,645.19	-3,554.22	-1,024.95	3,698.98	2.38	2.19	0.94	3,901.81
15,106.00	89.20	192.60	MWD	7/19/2014	Phoeni...	11,645.62	-3,584.47	-1,031.71	3,729.91	0.00	0.00	0.00	3,932.81
15,138.00	88.70	192.40	MWD	7/19/2014	Phoeni...	11,646.21	-3,615.71	-1,038.63	3,761.83	1.68	-1.56	-0.62	3,964.80
15,169.00	88.20	192.40	MWD	7/19/2014	Phoeni...	11,647.05	-3,645.98	-1,045.29	3,792.74	1.61	-1.61	0.00	3,995.79
15,201.00	89.80	192.60	MWD	7/19/2014	Phoeni...	11,647.60	-3,677.21	-1,052.21	3,824.66	5.04	5.00	0.62	4,027.78
15,232.00	91.20	192.80	MWD	7/19/2014	Phoeni...	11,647.33	-3,707.45	-1,059.03	3,855.59	4.56	4.52	0.65	4,058.78



Directional Survey

Well Name: RW 32-25A

API 43-047-51788		Surface Legal Location S25-T7S-R22E			Field Name RED WASH		County UINTAH		State UTAH		Well Configuration Type Horizontal	
Unique Well ID UT101923		Ground Elevation (ft) 5,509		Casing Flange Elevation (ft) 5,509.00		Current KB to GL (ft) 30.00		KB to CF (ft) 30.00		Spud Date 1/3/2014 12:00		Dry Hole TD Date 9/3/2014 18:00

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)
15,272.00	91.20	193.00	MWD	7/21/2014	Phoeni...	11,646.50	-3,746.43	-1,067.95	3,895.50	0.50	0.00	0.50	4,098.77
15,304.00	90.90	192.40	MWD	7/21/2014	Phoeni...	11,645.91	-3,777.65	-1,074.99	3,927.43	2.10	-0.94	-1.87	4,130.77
15,335.00	91.20	193.00	MWD	7/21/2014	Phoeni...	11,645.34	-3,807.88	-1,081.80	3,958.36	2.16	0.97	1.94	4,161.76
15,367.00	91.20	192.80	MWD	7/21/2014	Phoeni...	11,644.67	-3,839.07	-1,088.94	3,990.29	0.62	0.00	-0.62	4,193.76
15,398.00	91.50	193.20	MWD	7/21/2014	Phoeni...	11,643.94	-3,869.26	-1,095.92	4,021.22	1.61	0.97	1.29	4,224.75
15,430.00	91.30	193.00	MWD	7/21/2014	Phoeni...	11,643.16	-3,900.42	-1,103.17	4,053.16	0.88	-0.63	-0.62	4,256.74
15,461.00	91.40	193.20	MWD	7/21/2014	Phoeni...	11,642.43	-3,930.61	-1,110.19	4,084.10	0.72	0.32	0.65	4,287.73
15,483.00	90.50	193.50	MWD	7/23/2014	Phoeni...	11,642.06	-3,952.01	-1,115.27	4,106.06	4.31	-4.09	1.36	4,309.72
15,515.00	88.20	193.10	MWD	7/23/2014	Phoeni...	11,642.43	-3,983.15	-1,122.63	4,138.01	7.30	-7.19	-1.25	4,341.72
15,547.00	87.50	193.70	MWD	7/23/2014	Phoeni...	11,643.63	-4,014.25	-1,130.04	4,169.94	2.88	-2.19	1.87	4,373.70
15,578.00	87.70	193.60	MWD	7/23/2014	Phoeni...	11,644.93	-4,044.35	-1,137.35	4,200.88	0.72	0.65	-0.32	4,404.67
15,610.00	88.80	193.40	MWD	7/23/2014	Phoeni...	11,645.90	-4,075.45	-1,144.82	4,232.82	3.49	3.44	-0.62	4,436.66
15,641.00	88.80	193.00	MWD	7/23/2014	Phoeni...	11,646.55	-4,105.63	-1,151.89	4,263.76	1.29	0.00	-1.29	4,467.65
15,673.00	90.50	193.30	MWD	7/23/2014	Phoeni...	11,646.75	-4,136.79	-1,159.17	4,295.71	5.39	5.31	0.94	4,499.65
15,704.00	90.70	192.50	MWD	7/23/2014	Phoeni...	11,646.42	-4,167.00	-1,166.09	4,326.65	2.66	0.65	-2.58	4,530.64
15,735.00	88.70	190.90	MWD	7/23/2014	Phoeni...	11,646.58	-4,197.35	-1,172.38	4,357.54	8.26	-6.45	-5.16	4,561.64
15,767.00	90.00	191.00	MWD	7/23/2014	Phoeni...	11,646.95	-4,228.77	-1,178.46	4,389.39	4.07	4.06	0.31	4,593.64
15,798.00	92.10	193.30	MWD	7/23/2014	Phoeni...	11,646.38	-4,259.07	-1,184.98	4,420.29	10.05	6.77	7.42	4,624.63
15,830.00	90.90	192.70	MWD	7/24/2014	Phoeni...	11,645.54	-4,290.23	-1,192.18	4,452.22	4.19	-3.75	-1.88	4,656.62
15,861.00	90.90	193.00	MWD	7/24/2014	Phoeni...	11,645.05	-4,320.45	-1,199.07	4,483.16	0.97	0.00	0.97	4,687.61
15,887.00	91.50	193.20	MWD	7/25/2014	Phoeni...	11,644.51	-4,345.77	-1,204.96	4,509.11	2.43	2.31	0.77	4,713.61
15,919.00	92.30	193.50	MWD	7/25/2014	Phoeni...	11,643.45	-4,376.89	-1,212.35	4,541.04	2.67	2.50	0.94	4,745.59
15,950.00	93.10	193.80	MWD	7/25/2014	Phoeni...	11,641.99	-4,406.98	-1,219.65	4,571.97	2.76	2.58	0.97	4,776.56
15,982.00	93.60	194.10	MWD	7/25/2014	Phoeni...	11,640.12	-4,437.98	-1,227.36	4,603.88	1.82	1.56	0.94	4,808.50
16,009.00	93.20	192.70	MWD	7/28/2014	Native...	11,638.52	-4,464.20	-1,233.60	4,630.80	5.38	-1.48	-5.19	4,835.45
16,041.00	92.70	194.40	MWD	7/28/2014	Phoeni...	11,636.87	-4,495.27	-1,241.09	4,662.71	5.53	-1.56	5.31	4,867.41
16,072.00	92.80	194.30	MWD	7/28/2014	Native...	11,635.38	-4,525.27	-1,248.76	4,693.66	0.46	0.32	-0.32	4,898.37
16,104.00	93.10	195.70	MWD	7/28/2014	Native...	11,633.74	-4,556.13	-1,257.03	4,725.60	4.47	0.94	4.37	4,930.33
16,135.00	92.50	195.10	MWD	7/28/2014	Native...	11,632.22	-4,585.99	-1,265.26	4,756.56	2.74	-1.94	-1.94	4,961.29
16,167.00	93.10	195.00	MWD	7/28/2014	Native...	11,630.66	-4,616.85	-1,273.56	4,788.51	1.90	1.87	-0.31	4,993.25
16,198.00	93.20	194.90	MWD	7/28/2014	Native...	11,628.96	-4,646.76	-1,281.54	4,819.46	0.46	0.32	-0.32	5,024.21
16,230.00	93.10	196.20	MWD	7/28/2014	Native...	11,627.20	-4,677.54	-1,290.11	4,851.40	4.07	-0.31	4.06	5,056.16
16,261.00	92.60	196.00	MWD	7/29/2014	Native...	11,625.66	-4,707.28	-1,298.69	4,882.36	1.74	-1.61	-0.65	5,087.12
16,292.00	87.60	194.50	MWD	7/29/2014	Native...	11,625.60	-4,737.18	-1,306.84	4,913.35	16.84	-16.13	-4.84	5,118.11
16,324.00	85.80	192.80	MWD	7/29/2014	Native...	11,627.44	-4,768.22	-1,314.38	4,945.25	7.73	-5.62	-5.31	5,150.05
16,355.00	86.50	194.00	MWD	7/29/2014	Native...	11,629.53	-4,798.31	-1,321.55	4,976.14	4.47	2.26	3.87	5,180.98
16,387.00	86.70	194.50	MWD	7/29/2014	Native...	11,631.42	-4,829.27	-1,329.41	5,008.06	1.68	0.63	1.56	5,212.93
16,425.00	88.20	195.50	MWD	7/30/2014	Native...	11,633.11	-4,865.94	-1,339.24	5,046.01	4.74	3.95	2.63	5,250.89
16,456.00	87.80	195.10	MWD	7/30/2014	Native...	11,634.20	-4,895.82	-1,347.41	5,076.98	1.82	-1.29	-1.29	5,281.87
16,487.00	87.90	195.10	MWD	7/31/2014	Native...	11,635.36	-4,925.73	-1,355.48	5,107.95	0.32	0.32	0.00	5,312.85
16,519.00	88.30	194.70	MWD	7/31/2014	Native...	11,636.42	-4,956.64	-1,363.71	5,139.92	1.77	1.25	-1.25	5,344.83
16,550.00	88.10	195.20	MWD	7/31/2014	Native...	11,637.39	-4,986.57	-1,371.70	5,170.90	1.74	-0.65	1.61	5,375.81
16,581.00	88.30	194.30	MWD	7/31/2014	Native...	11,638.37	-5,016.54	-1,379.59	5,201.87	2.97	0.65	-2.90	5,406.80
16,613.00	89.70	195.60	MWD	7/31/2014	Native...	11,638.93	-5,047.45	-1,387.84	5,233.85	5.97	4.38	4.06	5,438.79
16,644.00	89.70	195.10	MWD	7/31/2014	Native...	11,639.09	-5,077.34	-1,396.05	5,264.84	1.61	0.00	-1.61	5,469.79
16,676.00	89.50	195.50	MWD	7/31/2014	Native...	11,639.31	-5,108.21	-1,404.49	5,296.84	1.40	-0.63	1.25	5,501.79
16,707.00	89.30	195.20	MWD	7/31/2014	Native...	11,639.64	-5,138.10	-1,412.70	5,327.83	1.16	-0.65	-0.97	5,532.79
16,739.00	89.60	194.80	MWD	7/31/2014	Native...	11,639.94	-5,169.01	-1,420.98	5,359.82	1.56	0.94	-1.25	5,564.79
16,770.00	89.30	194.00	MWD	7/31/2014	Native...	11,640.24	-5,199.03	-1,428.69	5,390.79	2.76	-0.97	-2.58	5,595.78
16,801.00	89.20	194.20	MWD	7/31/2014	Native...	11,640.65	-5,229.10	-1,436.24	5,421.77	0.72	-0.32	0.65	5,626.78
16,833.00	90.80	195.50	MWD	8/1/2014	Native...	11,640.65	-5,260.02	-1,444.44	5,453.75	6.44	5.00	4.06	5,658.78



Directional Survey

Well Name: RW 32-25A

API 43-047-51788		Surface Legal Location S25-T7S-R22E			Field Name RED WASH		County UINTAH		State UTAH		Well Configuration Type Horizontal	
Unique Well ID UT101923		Ground Elevation (ft) 5,509		Casing Flange Elevation (ft) 5,509.00		Current KB to GL (ft) 30.00		KB to CF (ft) 30.00		Spud Date 1/3/2014 12:00		Dry Hole TD Date 9/3/2014 18:00

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)
16,864.00	88.90	195.40	MWD	8/1/2014	Native...	11,640.73	-5,289.90	-1,452.70	5,484.75	6.14	-6.13	-0.32	5,689.78
16,896.00	90.30	195.20	MWD	8/1/2014	Native...	11,640.95	-5,320.77	-1,461.14	5,516.74	4.42	4.37	-0.63	5,721.78
16,928.00	88.90	195.70	MWD	8/1/2014	Native...	11,641.17	-5,351.61	-1,469.67	5,548.73	4.65	-4.37	1.56	5,753.78
16,959.00	90.70	195.70	MWD	8/1/2014	Native...	11,641.28	-5,381.45	-1,478.05	5,579.73	5.81	5.81	0.00	5,784.77
16,990.00	90.40	196.20	MWD	8/1/2014	Native...	11,640.99	-5,411.26	-1,486.57	5,610.72	1.88	-0.97	1.61	5,815.77
17,022.00	89.70	195.70	MWD	8/1/2014	Native...	11,640.96	-5,442.02	-1,495.37	5,642.72	2.69	-2.19	-1.56	5,847.77
17,054.00	89.10	195.80	MWD	8/1/2014	Native...	11,641.29	-5,472.82	-1,504.05	5,674.72	1.90	-1.88	0.31	5,879.77
17,085.00	86.60	194.40	MWD	8/1/2014	Native...	11,642.46	-5,502.73	-1,512.12	5,705.68	9.24	-8.06	-4.52	5,910.75
17,117.00	88.90	195.30	MWD	8/1/2014	Native...	11,643.71	-5,533.63	-1,520.32	5,737.64	7.72	7.19	2.81	5,942.72
17,148.00	89.50	197.20	MWD	8/1/2014	Native...	11,644.14	-5,563.39	-1,528.99	5,768.64	6.43	1.94	6.13	5,973.71
17,163.00	90.20	198.00	MWD	8/2/2014	Native...	11,644.18	-5,577.69	-1,533.52	5,783.64	7.09	4.67	5.33	5,988.71
17,177.00	91.00	197.98	MWD	8/2/2014	Native...	11,644.04	-5,591.00	-1,537.85	5,797.63	5.72	5.71	-0.14	6,002.71
17,210.00	92.00	197.90	MWD	8/3/2014	Native...	11,643.17	-5,622.38	-1,548.01	5,830.61	3.04	3.03	-0.24	6,035.70
17,241.00	92.40	198.50	MWD	8/3/2014	Native...	11,641.98	-5,651.81	-1,557.68	5,861.57	2.32	1.29	1.94	6,066.68
17,273.00	92.70	198.80	MWD	8/3/2014	Native...	11,640.56	-5,682.10	-1,567.91	5,893.52	1.33	0.94	0.94	6,098.65
17,304.00	92.20	198.70	MWD	8/3/2014	Native...	11,639.23	-5,711.43	-1,577.86	5,924.46	1.64	-1.61	-0.32	6,129.62
17,335.00	91.60	199.30	MWD	8/3/2014	Native...	11,638.21	-5,740.72	-1,587.95	5,955.41	2.74	-1.94	1.94	6,160.60
17,366.00	93.60	201.20	MWD	8/3/2014	Native...	11,636.80	-5,769.78	-1,598.67	5,986.31	8.89	6.45	6.13	6,191.57
17,381.00	93.30	200.10	MWD	8/3/2014	Native...	11,635.90	-5,783.79	-1,603.95	6,001.24	7.59	-2.00	-7.33	6,206.54
17,398.00	93.40	200.20	MWD	8/3/2014	Native...	11,634.90	-5,799.72	-1,609.79	6,018.18	0.83	0.59	0.59	6,223.51
17,413.00	92.70	200.70	MWD	8/3/2014	Native...	11,634.11	-5,813.75	-1,615.03	6,033.12	5.73	-4.67	3.33	6,238.49
17,429.00	92.00	201.40	MWD	8/4/2014	Native...	11,633.45	-5,828.67	-1,620.77	6,049.06	6.18	-4.38	4.38	6,254.47
17,444.00	91.80	201.20	MWD	8/4/2014	Native...	11,632.95	-5,842.64	-1,626.21	6,063.99	1.89	-1.33	-1.33	6,269.47
17,461.00	92.00	200.10	MWD	8/4/2014	Native...	11,632.39	-5,858.54	-1,632.21	6,080.94	6.57	1.18	-6.47	6,286.46
17,492.00	92.30	200.90	MWD	8/4/2014	Native...	11,631.23	-5,887.56	-1,643.06	6,111.84	2.75	0.97	2.58	6,317.43
17,524.00	90.40	201.50	MWD	8/4/2014	Native...	11,630.47	-5,917.38	-1,654.62	6,143.72	6.23	-5.94	1.87	6,349.42
17,555.00	90.20	201.00	MWD	8/4/2014	Native...	11,630.31	-5,946.27	-1,665.86	6,174.61	1.74	-0.65	-1.61	6,380.42
17,586.00	90.30	201.90	MWD	8/4/2014	Native...	11,630.17	-5,975.12	-1,677.19	6,205.49	2.92	0.32	2.90	6,411.42
17,618.00	90.80	201.40	MWD	8/4/2014	Native...	11,629.87	-6,004.86	-1,689.00	6,237.36	2.21	1.56	-1.56	6,443.42
17,649.00	89.50	200.80	MWD	8/4/2014	Native...	11,629.79	-6,033.79	-1,700.16	6,268.25	4.62	-4.19	-1.94	6,474.42
17,680.00	87.20	200.50	MWD	8/4/2014	Native...	11,630.68	-6,062.78	-1,711.09	6,299.16	7.48	-7.42	-0.97	6,505.40
17,696.00	85.90	198.60	MWD	8/4/2014	Native...	11,631.64	-6,077.83	-1,716.43	6,315.10	14.37	-8.12	-11.88	6,521.37
17,712.00	85.30	196.80	MWD	8/4/2014	Native...	11,632.87	-6,093.03	-1,721.28	6,331.05	11.83	-3.75	-11.25	6,537.33
17,732.00	86.20	196.50	MWD	8/5/2014	Native...	11,634.35	-6,112.13	-1,727.00	6,351.00	4.74	4.50	-1.50	6,557.27
17,743.00	86.50	196.70	MWD	8/5/2014	Native...	11,635.05	-6,122.65	-1,730.13	6,361.97	3.28	2.73	1.82	6,568.25
17,775.00	89.70	197.50	MWD	8/5/2014	Native...	11,636.11	-6,153.22	-1,739.54	6,393.95	10.31	10.00	2.50	6,600.23
17,806.00	90.50	196.30	MWD	8/5/2014	Native...	11,636.06	-6,182.88	-1,748.55	6,424.95	4.65	2.58	-3.87	6,631.23
17,838.00	88.60	195.60	MWD	8/5/2014	Native...	11,636.31	-6,213.64	-1,757.34	6,456.94	6.33	-5.94	-2.19	6,663.22
17,869.00	87.60	195.00	MWD	8/5/2014	Native...	11,637.34	-6,243.53	-1,765.51	6,487.92	3.76	-3.23	-1.94	6,694.21
17,900.00	89.80	196.20	MWD	8/5/2014	Native...	11,638.04	-6,273.38	-1,773.85	6,518.91	8.08	7.10	3.87	6,725.20
17,931.00	90.90	196.00	MWD	8/5/2014	Native...	11,637.85	-6,303.16	-1,782.45	6,549.90	3.61	3.55	-0.65	6,756.19
17,963.00	90.60	195.00	MWD	8/5/2014	Native...	11,637.43	-6,333.99	-1,791.00	6,581.90	3.26	-0.94	-3.13	6,788.19
17,994.00	90.90	195.00	MWD	8/6/2014	Native...	11,637.03	-6,363.93	-1,799.02	6,612.88	0.97	0.97	0.00	6,819.19
18,026.00	91.80	194.30	MWD	8/6/2014	Native...	11,636.27	-6,394.88	-1,807.11	6,644.86	3.56	2.81	-2.19	6,851.18
18,057.00	89.20	191.40	MWD	8/6/2014	Native...	11,636.00	-6,425.10	-1,814.00	6,675.79	12.56	-8.39	-9.35	6,882.17
18,065.00	88.80	192.20	MWD	8/7/2014	Native...	11,636.14	-6,432.93	-1,815.64	6,683.76	11.18	-5.00	10.00	6,890.17
18,096.00	88.60	192.10	MWD	8/7/2014	Native...	11,636.85	-6,463.23	-1,822.16	6,714.67	0.72	-0.65	-0.32	6,921.16
18,127.00	90.80	192.20	MWD	8/8/2014	Native...	11,637.01	-6,493.53	-1,828.69	6,745.58	7.10	7.10	0.32	6,952.16
18,159.00	92.60	192.40	MWD	8/8/2014	Native...	11,636.06	-6,524.78	-1,835.50	6,777.48	5.66	5.62	0.63	6,984.14
18,190.00	92.80	193.10	MWD	8/9/2014	Native...	11,634.60	-6,554.98	-1,842.33	6,808.38	2.35	0.65	2.26	7,015.11
18,222.00	92.70	193.20	MWD	8/9/2014	Native...	11,633.06	-6,586.11	-1,849.60	6,840.29	0.44	-0.31	0.31	7,047.07



Directional Survey

Well Name: RW 32-25A

API 43-047-51788		Surface Legal Location S25-T7S-R22E			Field Name RED WASH		County UINTAH		State UTAH		Well Configuration Type Horizontal	
Unique Well ID UT101923		Ground Elevation (ft) 5,509		Casing Flange Elevation (ft) 5,509.00		Current KB to GL (ft) 30.00		KB to CF (ft) 30.00		Spud Date 1/3/2014 12:00		Dry Hole TD Date 9/3/2014 18:00

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)
18,253.00	92.60	192.50	MWD	8/9/2014	Native...	11,631.63	-6,616.30	-1,856.49	6,871.20	2.28	-0.32	-2.26	7,078.04
18,285.00	92.80	193.60	MWD	8/9/2014	Native...	11,630.12	-6,647.44	-1,863.71	6,903.10	3.49	0.63	3.44	7,110.00
18,316.00	92.80	193.60	MWD	8/9/2014	Native...	11,628.61	-6,677.53	-1,870.99	6,934.03	0.00	0.00	0.00	7,140.97
18,348.00	92.90	193.70	MWD	8/10/2014	Native...	11,627.02	-6,708.59	-1,878.53	6,965.95	0.44	0.31	0.31	7,172.93
18,377.00	92.60	193.00	MWD	8/10/2014	Native...	11,625.63	-6,736.78	-1,885.22	6,994.87	2.62	-1.03	-2.41	7,201.89
18,411.00	91.60	192.30	MWD	8/11/2014	Native...	11,624.38	-6,769.93	-1,892.66	7,028.78	3.59	-2.94	-2.06	7,235.87
18,442.00	91.10	192.80	MWD	8/11/2014	Native...	11,623.65	-6,800.18	-1,899.39	7,059.70	2.28	-1.61	1.61	7,266.86
18,474.00	91.00	193.10	MWD	8/12/2014	Native...	11,623.06	-6,831.36	-1,906.56	7,091.63	0.99	-0.31	0.94	7,298.86
18,505.00	91.90	193.30	MWD	8/13/2014	Native...	11,622.28	-6,861.53	-1,913.64	7,122.57	2.97	2.90	0.65	7,329.85
18,536.00	91.90	193.20	MWD	8/13/2014	Native...	11,621.25	-6,891.69	-1,920.74	7,153.50	0.32	0.00	-0.32	7,360.83
18,567.00	91.70	193.60	MWD	8/13/2014	Native...	11,620.28	-6,921.83	-1,927.92	7,184.45	1.44	-0.65	1.29	7,391.81
18,599.00	91.90	193.70	MWD	8/13/2014	Native...	11,619.27	-6,952.91	-1,935.47	7,216.39	0.70	0.63	0.31	7,423.80
18,630.00	92.00	193.90	MWD	8/13/2014	Native...	11,618.22	-6,983.00	-1,942.86	7,247.34	0.72	0.32	0.65	7,454.78
18,662.00	92.50	194.40	MWD	8/14/2014	Native...	11,616.96	-7,014.00	-1,950.68	7,279.29	2.21	1.56	1.56	7,486.75
18,689.00	92.90	194.60	MWD	8/14/2014	Native...	11,615.69	-7,040.11	-1,957.43	7,306.24	1.66	1.48	0.74	7,513.72
18,724.00	93.90	194.80	MWD	8/15/2014	Native...	11,613.61	-7,073.91	-1,966.30	7,341.17	2.91	2.86	0.57	7,548.66
18,756.00	93.90	194.50	MWD	8/15/2014	Native...	11,611.44	-7,104.80	-1,974.37	7,373.08	0.94	0.00	-0.94	7,580.59
18,787.00	93.90	194.60	MWD	8/15/2014	Native...	11,609.33	-7,134.73	-1,982.14	7,403.99	0.32	0.00	0.32	7,611.52
18,818.00	94.50	194.50	MWD	8/15/2014	Native...	11,607.06	-7,164.66	-1,989.91	7,434.89	1.96	1.94	-0.32	7,642.43
18,850.00	95.00	194.30	MWD	8/16/2014	Native...	11,604.41	-7,195.55	-1,997.84	7,466.76	1.68	1.56	-0.62	7,674.32
18,881.00	95.40	195.00	MWD	8/16/2014	Native...	11,601.60	-7,225.41	-2,005.65	7,497.61	2.59	1.29	2.26	7,705.20
18,913.00	95.70	195.10	MWD	8/17/2014	Native...	11,598.50	-7,256.17	-2,013.92	7,529.45	0.99	0.94	0.31	7,737.05
18,944.00	96.50	196.00	MWD	8/18/2014	Native...	11,595.21	-7,285.87	-2,022.18	7,560.27	3.87	2.58	2.90	7,767.87
18,976.00	97.10	196.50	MWD	8/18/2014	Native...	11,591.42	-7,316.37	-2,031.07	7,592.05	2.43	1.87	1.56	7,799.64
19,007.00	97.20	198.50	MWD	8/18/2014	Native...	11,587.56	-7,345.71	-2,040.32	7,622.80	6.41	0.32	6.45	7,830.40
19,039.00	96.60	199.40	MWD	8/18/2014	Native...	11,583.72	-7,375.75	-2,050.64	7,654.54	3.36	-1.88	2.81	7,862.17
19,070.00	96.60	199.10	MWD	8/18/2014	Native...	11,580.15	-7,404.82	-2,060.79	7,685.30	0.96	0.00	-0.97	7,892.96
19,101.00	95.20	199.50	MWD	8/19/2014	Native...	11,576.97	-7,433.93	-2,070.98	7,716.09	4.69	-4.52	1.29	7,923.80
19,133.00	94.70	199.70	MWD	8/19/2014	Native...	11,574.21	-7,463.96	-2,081.68	7,747.92	1.68	-1.56	0.62	7,955.68
19,164.00	93.50	198.60	MWD	8/19/2014	Native...	11,571.99	-7,493.17	-2,091.82	7,778.81	5.25	-3.87	-3.55	7,986.60
19,196.00	92.50	198.70	MWD	8/19/2014	Native...	11,570.31	-7,523.45	-2,102.04	7,810.74	3.14	-3.13	0.31	8,018.55
19,227.00	92.10	197.90	MWD	8/19/2014	Native...	11,569.07	-7,552.85	-2,111.76	7,841.70	2.88	-1.29	-2.58	8,049.53
19,258.00	92.30	197.40	MWD	8/19/2014	Native...	11,567.88	-7,582.37	-2,121.16	7,872.67	1.74	0.65	-1.61	8,080.51
19,290.00	92.70	197.60	MWD	8/20/2014	Native...	11,566.48	-7,612.86	-2,130.77	7,904.64	1.40	1.25	0.62	8,112.48
19,331.00	92.70	197.30	MWD	8/20/2014	Native...	11,564.55	-7,651.93	-2,143.05	7,945.58	0.73	0.00	-0.73	8,153.43
19,353.00	93.00	198.50	MWD	8/20/2014	Native...	11,563.46	-7,672.84	-2,149.80	7,967.55	5.62	1.36	5.45	8,175.40
19,390.00	92.40	198.60	MWD	8/22/2014	Native...	11,561.72	-7,707.88	-2,161.56	8,004.48	1.64	-1.62	0.27	8,212.36
19,422.00	92.80	198.90	MWD	8/22/2014	Native...	11,560.26	-7,738.15	-2,171.84	8,036.42	1.56	1.25	0.94	8,244.33
19,453.00	90.60	198.50	MWD	8/22/2014	Native...	11,559.35	-7,767.50	-2,181.77	8,067.38	7.21	-7.10	-1.29	8,275.31
19,484.00	90.00	199.20	MWD	8/22/2014	Native...	11,559.18	-7,796.84	-2,191.79	8,098.36	2.97	-1.94	2.26	8,306.31
19,516.00	89.80	199.30	MWD	8/22/2014	Native...	11,559.24	-7,827.05	-2,202.34	8,130.32	0.70	-0.63	0.31	8,338.31
19,547.00	89.80	199.10	MWD	8/22/2014	Native...	11,559.35	-7,856.32	-2,212.53	8,161.28	0.65	0.00	-0.65	8,369.31
19,578.00	89.70	199.30	MWD	8/22/2014	Native...	11,559.48	-7,885.60	-2,222.73	8,192.25	0.72	-0.32	0.65	8,400.31
19,609.00	89.70	199.20	MWD	8/22/2014	Native...	11,559.64	-7,914.86	-2,232.95	8,223.21	0.32	0.00	-0.32	8,431.31
19,640.00	89.60	199.20	MWD	8/22/2014	Native...	11,559.83	-7,944.14	-2,243.14	8,254.17	0.32	-0.32	0.00	8,462.31
19,672.00	89.50	199.10	MWD	8/22/2014	Native...	11,560.09	-7,974.37	-2,253.64	8,286.14	0.44	-0.31	-0.31	8,494.31
19,703.00	89.30	198.70	MWD	8/23/2014	Native...	11,560.41	-8,003.69	-2,263.68	8,317.11	1.44	-0.65	-1.29	8,525.31
19,735.00	89.20	198.90	MWD	8/23/2014	Native...	11,560.83	-8,033.98	-2,273.99	8,349.08	0.70	-0.31	0.63	8,557.30
19,766.00	89.30	199.10	MWD	8/23/2014	Native...	11,561.23	-8,063.29	-2,284.08	8,380.04	0.72	0.32	0.65	8,588.30
19,798.00	89.50	199.20	MWD	8/23/2014	Native...	11,561.57	-8,093.52	-2,294.58	8,412.01	0.70	0.63	0.31	8,620.30
19,829.00	89.60	199.30	MWD	8/23/2014	Native...	11,561.81	-8,122.79	-2,304.80	8,442.97	0.46	0.32	0.32	8,651.30



Directional Survey

Well Name: RW 32-25A

API 43-047-51788	Surface Legal Location S25-T7S-R22E	Field Name RED WASH	County UINTAH	State UTAH	Well Configuration Type Horizontal
Unique Well ID UT101923	Ground Elevation (ft) 5,509	Casing Flange Elevation (ft) 5,509.00	Current KB to GL (ft) 30.00	KB to CF (ft) 30.00	Spud Date 1/3/2014 12:00
					Dry Hole TD Date 9/3/2014 18:00

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)
19,861.00	89.50	199.30	MWD	8/23/2014	Native...	11,562.06	-8,152.99	-2,315.37	8,474.93	0.31	-0.31	0.00	8,683.30
19,892.00	89.50	199.40	MWD	8/23/2014	Native...	11,562.33	-8,182.23	-2,325.65	8,505.89	0.32	0.00	0.32	8,714.30
19,923.00	89.50	199.50	MWD	8/23/2014	Native...	11,562.61	-8,211.46	-2,335.97	8,536.84	0.32	0.00	0.32	8,745.30
19,955.00	89.70	199.50	MWD	8/23/2014	Native...	11,562.83	-8,241.63	-2,346.65	8,568.80	0.62	0.63	0.00	8,777.30
19,986.00	89.80	199.80	MWD	8/23/2014	Native...	11,562.96	-8,270.82	-2,357.07	8,599.75	1.02	0.32	0.97	8,808.29
20,018.00	89.60	200.00	MWD	8/23/2014	Native...	11,563.13	-8,300.91	-2,367.97	8,631.69	0.88	-0.63	0.62	8,840.29
20,049.00	89.60	199.70	MWD	8/23/2014	Native...	11,563.35	-8,330.07	-2,378.49	8,662.63	0.97	0.00	-0.97	8,871.29
20,080.00	89.70	199.70	MWD	8/24/2014	Native...	11,563.54	-8,359.25	-2,388.94	8,693.58	0.32	0.32	0.00	8,902.29
20,112.00	89.70	199.70	MWD	8/24/2014	Native...	11,563.70	-8,389.38	-2,399.73	8,725.53	0.00	0.00	0.00	8,934.29
20,144.00	89.50	199.70	MWD	8/24/2014	Native...	11,563.93	-8,419.51	-2,410.52	8,757.48	0.62	-0.63	0.00	8,966.29
20,175.00	89.70	200.10	MWD	8/24/2014	Native...	11,564.14	-8,448.66	-2,421.07	8,788.42	1.44	0.65	1.29	8,997.29
20,207.00	90.00	200.10	MWD	8/24/2014	Native...	11,564.23	-8,478.71	-2,432.06	8,820.36	0.94	0.94	0.00	9,029.29
20,238.00	89.90	199.40	MWD	8/24/2014	Native...	11,564.26	-8,507.88	-2,442.54	8,851.31	2.28	-0.32	-2.26	9,060.29
20,270.00	90.10	199.70	MWD	8/24/2014	Native...	11,564.26	-8,538.04	-2,453.25	8,883.26	1.13	0.62	0.94	9,092.29
20,301.00	90.00	199.20	MWD	8/24/2014	Native...	11,564.23	-8,567.27	-2,463.57	8,914.22	1.64	-0.32	-1.61	9,123.29
20,333.00	89.80	199.30	MWD	8/24/2014	Native...	11,564.28	-8,597.48	-2,474.12	8,946.18	0.70	-0.63	0.31	9,155.29
20,364.00	89.70	199.30	MWD	8/24/2014	Native...	11,564.42	-8,626.74	-2,484.37	8,977.14	0.32	-0.32	0.00	9,186.29
20,395.00	89.90	199.40	MWD	8/24/2014	Native...	11,564.53	-8,655.99	-2,494.64	9,008.10	0.72	0.65	0.32	9,217.29
20,427.00	90.30	90.65	MWD	8/24/2014	Native...	11,564.45	-8,678.44	-2,478.93	9,025.19	339.84	1.25	-339.84	9,244.70
20,458.00	90.30	199.90	MWD	8/24/2014	Native...	11,564.21	-8,700.23	-2,463.82	9,041.81	352.41	0.00	352.42	9,271.21
20,490.00	90.40	199.70	MWD	8/25/2014	Native...	11,564.01	-8,730.34	-2,474.66	9,073.76	0.70	0.31	-0.63	9,303.21
20,521.00	90.20	199.70	MWD	8/25/2014	Native...	11,563.85	-8,759.53	-2,485.11	9,104.71	0.65	-0.65	0.00	9,334.21
20,553.00	90.40	200.10	MWD	8/25/2014	Native...	11,563.68	-8,789.62	-2,496.01	9,136.65	1.40	0.63	1.25	9,366.21
20,584.00	90.30	200.00	MWD	8/25/2014	Native...	11,563.49	-8,818.74	-2,506.63	9,167.59	0.46	-0.32	-0.32	9,397.21
20,616.00	90.00	200.10	MWD	8/25/2014	Native...	11,563.41	-8,848.80	-2,517.60	9,199.52	0.99	-0.94	0.31	9,429.21
20,647.00	90.90	200.20	MWD	8/25/2014	Native...	11,563.16	-8,877.90	-2,528.28	9,230.46	2.92	2.90	0.32	9,460.21
20,678.00	91.30	200.40	MWD	8/25/2014	Native...	11,562.57	-8,906.97	-2,539.04	9,261.38	1.44	1.29	0.65	9,491.20
20,703.00	91.90	200.70	MWD	8/27/2014	Native...	11,561.87	-8,930.37	-2,547.81	9,286.31	2.68	2.40	1.20	9,516.19
20,734.00	93.40	201.04	MWD	8/27/2014	Native...	11,560.44	-8,959.30	-2,558.84	9,317.18	4.96	4.84	1.10	9,547.16
20,766.00	94.10	202.80	MWD	8/27/2014	Native...	11,558.34	-8,988.92	-2,570.76	9,348.96	5.91	2.19	5.50	9,579.09
20,797.00	94.30	203.30	MWD	8/28/2014	Native...	11,556.07	-9,017.37	-2,582.86	9,379.68	1.73	0.65	1.61	9,610.00
20,833.00	94.50	203.70	MWD	8/28/2014	Native...	11,553.31	-9,050.29	-2,597.18	9,415.30	1.24	0.56	1.11	9,645.90
20,900.00	94.50	203.70	MWD	8/28/2014	Native...	11,548.06	-9,111.45	-2,624.02	9,481.56	0.00	0.00	0.00	9,712.69

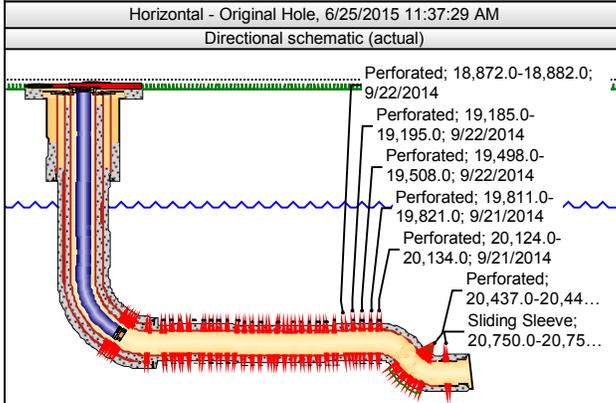


Downhole Well Profile

Well Name: RW 32-25A

API 43-047-51788	Surface Legal Location S25-T7S-R22E	Field Name RED WASH	County UINTAH	State UTAH	Well Configuration Type Horizontal
Unique Well ID UT101923	Gr Elev (ft) 5,509	Current Elevation 5,539.00, SST 88 - KB 30	KB to CF (ft) 30.00	Spud Date 1/3/2014 12:00	Dry Hole TD Date 9/3/2014 18:00
Total Depth (All) (ft, KB) Original Hole - 20,900.0					

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



Csg Des	OD (in)	Wt/Len (lb/ft)	Grade	Top Thread	Set Depth (ft, KB)
CONDUCTOR	14	36.00	J-55	WELD ON	110.0
SURFACE CASING	9 5/8	40.00	N-80	LT&C	4,104.0
INTERMEDIATE CASING	7	29.00	HCP110	LT&C	12,001.0
PRODUCTION CASING	4 1/2	15.10	Q-125	HTQ-CDC	20,890.0

Date	Top (ft, KB)	Btm (ft, KB)	Completion
10/1/2014	11,673.0	11,683.0	MESAVERDE, Original Hole
9/30/2014	11,986.0	11,996.0	MESAVERDE, Original Hole
9/30/2014	12,299.0	12,309.0	MESAVERDE, Original Hole
9/29/2014	12,612.0	12,622.0	MESAVERDE, Original Hole
9/28/2014	12,925.0	12,935.0	MESAVERDE, Original Hole
9/28/2014	13,238.0	13,248.0	MESAVERDE, Original Hole
9/28/2014	13,551.0	13,561.0	MESAVERDE, Original Hole
9/28/2014	13,864.0	13,874.0	MESAVERDE, Original Hole
9/28/2014	14,177.0	14,187.0	MESAVERDE, Original Hole
9/27/2014	14,490.0	14,500.0	MESAVERDE, Original Hole
9/27/2014	14,803.0	14,813.0	MESAVERDE, Original Hole
9/27/2014	15,116.0	15,126.0	MESAVERDE, Original Hole
9/26/2014	15,429.0	15,439.0	MESAVERDE, Original Hole
9/26/2014	15,742.0	15,752.0	MESAVERDE, Original Hole
9/26/2014	16,055.0	16,065.0	MESAVERDE, Original Hole
9/25/2014	16,358.0	16,368.0	MESAVERDE, Original Hole
9/25/2014	16,681.0	16,691.0	MESAVERDE, Original Hole
9/25/2014	16,994.0	17,004.0	MESAVERDE, Original Hole
9/24/2014	17,307.0	17,317.0	MESAVERDE, Original Hole
9/24/2014	17,620.0	17,630.0	MESAVERDE, Original Hole
9/24/2014	17,933.0	17,943.0	MESAVERDE, Original Hole
9/24/2014	18,246.0	18,256.0	MESAVERDE, Original Hole
9/23/2014	18,495.0	18,505.0	MESAVERDE, Original Hole
9/22/2014	18,872.0	18,882.0	MESAVERDE, Original Hole
9/22/2014	19,185.0	19,195.0	MESAVERDE, Original Hole
9/22/2014	19,498.0	19,508.0	MESAVERDE, Original Hole
9/21/2014	19,811.0	19,821.0	MESAVERDE, Original Hole
9/21/2014	20,124.0	20,134.0	MESAVERDE, Original Hole
9/21/2014	20,437.0	20,447.0	MESAVERDE, Original Hole
9/20/2014	20,750.0	20,752.0	MESAVERDE, Original Hole

Tubing Strings							
Tubing Description	Run Date	String Length (ft)	Set Depth (ft, KB)				
Tubing - Production	10/5/2014	11,650.73	11,680.0				
Item Des	Jts	Make	Model	OD (in)	Wt (lb/ft)	Grade	Len (ft)
Tubing Hanger	1			4 1/16			1.20
Tubing	36 9		T&C Non-Upset	2 3/8	4.60	L-80	11,64 5.94
1.81 F-nipple	1			2 3/8			0.97

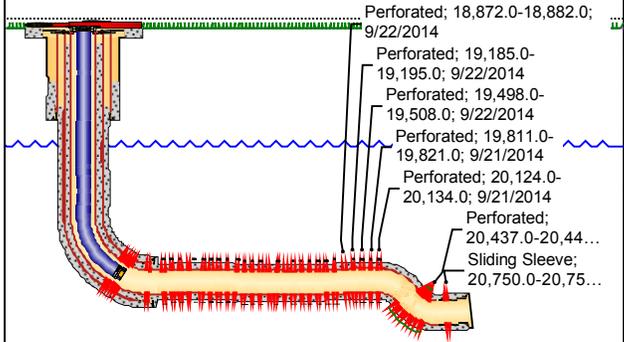


Downhole Well Profile

Well Name: RW 32-25A

API 43-047-51788	Surface Legal Location S25-T7S-R22E	Field Name RED WASH	County UINTAH	State UTAH	Well Configuration Type Horizontal
Unique Well ID UT101923	Gr Elev (ft) 5,509	Current Elevation 5,539.00, SST 88 - KB 30	KB to CF (ft) 30.00	Spud Date 1/3/2014 12:00	Dry Hole TD Date 9/3/2014 18:00
					Total Depth (All) (ft, KB) Original Hole - 20,900.0

Horizontal - Original Hole, 6/25/2015 11:37:29 AM		Item Des	Jts	Make	Model	OD (in)	Wt (lb/ft)	Grade	Len (ft)
Directional schematic (actual)		Tubing Pup Joint	1			2 3/8	4.70	N-80	2.10
		Pump out sub w/ W.L. entry	1			2 3/8			0.52



Rod Strings			
Rod Description	Run Date	String Length (ft)	Set Depth (ft, KB)