

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 OP 4G-2-7-20								
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 WILDCAT								
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME								
6. NAME OF OPERATOR QEP ENERGY COMPANY						7. OPERATOR PHONE 303 308-3068								
8. ADDRESS OF OPERATOR 11002 East 17500 South, Vernal, Ut, 84078						9. OPERATOR E-MAIL debbie.stanberry@qepres.com								
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) ML49758			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" 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		766 FNL 744 FWL		NWNW		2		7.0 S		20.0 E		S		
Top of Uppermost Producing Zone		766 FNL 744 FWL		NWNW		2		7.0 S		20.0 E		S		
At Total Depth		766 FNL 744 FWL		NWNW		2		7.0 S		20.0 E		S		
21. COUNTY UINTAH			22. DISTANCE TO NEAREST LEASE LINE (Feet) 744			23. NUMBER OF ACRES IN DRILLING UNIT 40								
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 2000			26. PROPOSED DEPTH MD: 9000 TVD: 9000								
27. ELEVATION - GROUND LEVEL 4958			28. BOND NUMBER 965010695			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 49-251/49-2153								
Hole, Casing, and Cement Information														
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement		Sacks	Yield	Weight			
SURF	12.25	9.625	0 - 1000	32.0	Unknown	0.0	Rockies Lite		456	1.81	13.5			
PROD	7.875	5.5	0 - 9000	17.0	N-80 LT&C	9.0	Halliburton Light , Type Unknown		528	2.94	11.0			
							Halliburton Premium , Type Unknown		523	1.49	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 02/25/2013				EMAIL Valyn.Davis@qepres.com						
API NUMBER ASSIGNED 43047536410000				APPROVAL  Permit Manager										

QEP Energy
OP 4G2-7-20
Vertical Well
Summarized Procedure

1. MIRU air rig.
2. Drill 12 1/4" surface hole to 1,000', run 8 5/8", 32#, HCK-55, LTC, cement to surface.
3. RD air rig, move off location.
4. MIRU drilling rig.
5. NU rig's 3,000 WP rated BOP. Test BOP's and surface casing.
6. PU straight hole BHA, drill out surface casing and 10' of new formation, perform FIT.
7. Drill 7 7/8" hole to ~9,000, TD.
8. Mud system will be water based. Mud weights from 8.6 – 9.5 ppg, Max 10.0 ppg.
9. TOOH, LDDP.
10. Log hole.
11. PU and run 5-1/2", 17#, N-80 LTC casing to intermediate TD. Cement same.
12. RDMOL

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ONSHORE OIL & GAS ORDER NO. 1
 QEP ENERGY COMPANY
 OP 4G2-7-20

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</u>
Green River	3,000'
X Marker	6,571'
G1 Lime	7,269'
H4a	7,495'
Wasatch	7,700'
TD	9,000'

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

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

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
Oil/Gas	Wasatch	7,700'

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 (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.

ONSHORE OIL & GAS ORDER NO. 1
QEP ENERGY COMPANY
OP 4G2-7-20

3. Operator's Specification for Pressure Control Equipment

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

4. Casing Program

Hole Size	Casing Size	Top, MD	Bottom, MD	Weight, lb/ft	Grade	Thread	Condition	MW
17 ½"	14"	sfc	40'	Steel	Cond.	None	Used	Air
12 ¼"	8 5/8"	sfc	1,000'	32.0	HCK-55	LTC	New	Air
7 7/8"	5 1/2"	sfc	9,000'	17.0	N-80	LTC	New	8-9 ppg

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

Please refer to the attached wellbore diagram procedure for further details.

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QEP ENERGY COMPANY
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5. **Cementing Program**

16" Conductor:

Cement to surface with construction cement.

8-5/8" Surface Casing: sfc – 1,000' (MD)

Lead/Tail Slurry: 0' – 1,000'. 456 sks (825 cu ft) Rockies LT cement + 0.25 lb/sk Kwik Seal + 0.125 lb/sk Poly-E-Flake. Slurry wt: 13.5 ppg, Slurry yield: 1.81 ft³/sk, Slurry volume: 12-1/4" hole + 100% excess.

5-1/2" Production Casing: sfc – 9,000' (MD)

Lead: Sfc – 6,000' 528 sks (1,552 cu ft) Halliburton ECONOCEM V4+ 3 LBM/SK Kol-Seal (LCM) + 0.1% HR-800 (Retarder). Slurry Weight 11 lb/gal, Slurry Yield 2.94 ft³/sk, with 50% Excess

Tail Slurry: 6,000' – 9,000'. 523 sks (780 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.

6. **Auxilliary Equipment**

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

Drilling the surface hole with air:

A variance from 43 CFR 3160 Onshore Oil and Gas Order #2, Section III Requirements, subsection E. Special Drilling Operations is requested for the specific operation of drilling and setting surface casing on the subject well with a truck mounted air rig. The variance from the following requirements of Order #2 is requested because surface casing depth for this well is 480 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.

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QEP ENERGY COMPANY
OP 4G2-7-20

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, Questar will kill the well with water contained in a 400 bbl tank on site. The 400 bbl water tank will also be storage for surface casing cement water.
6. **Deflector on the end of the blooiie line** – Questar 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 deflector is mounted on the very end of the blooiie. 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 blooiie 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.

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

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

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

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

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

- a. Cores – None Anticipated

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QEP ENERGY COMPANY
OP 4G2-7-20

b. DST – None Anticipated

c. Logging:

i. Mud logging from casing exit to TD

ii. Open Hole Logs: Triple Combo in Pilot Hole (GR-SP-CAL-DN-PE)

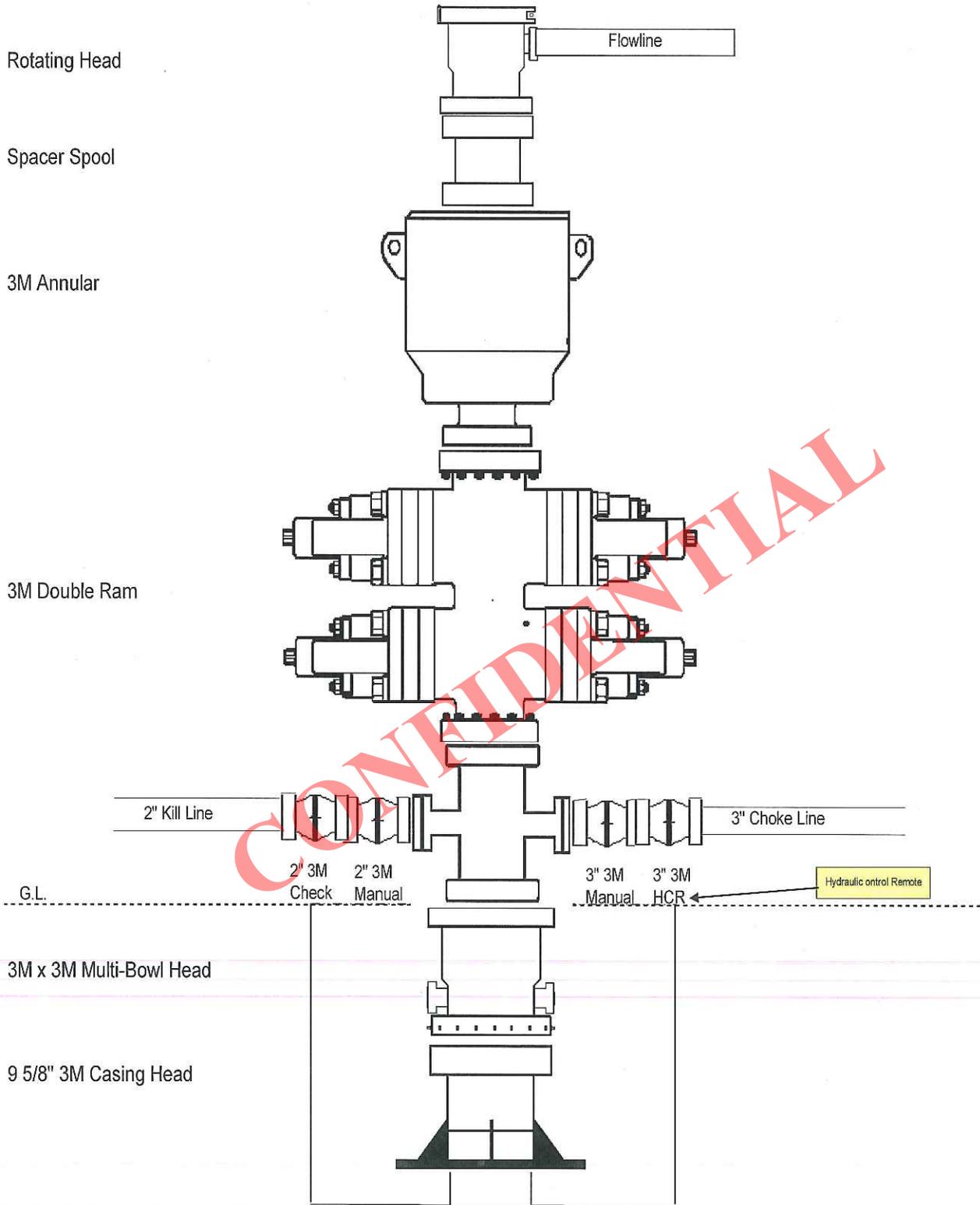
d. Formation and completion interval: H4a Lime interval, final determination of completion will be made by analysis of mud logging data. Stimulation: stimulation will be designed for the particular area of interest encountered.

8. Anticipated Abnormal Pressures and Temperatures, Other Potential Hazards

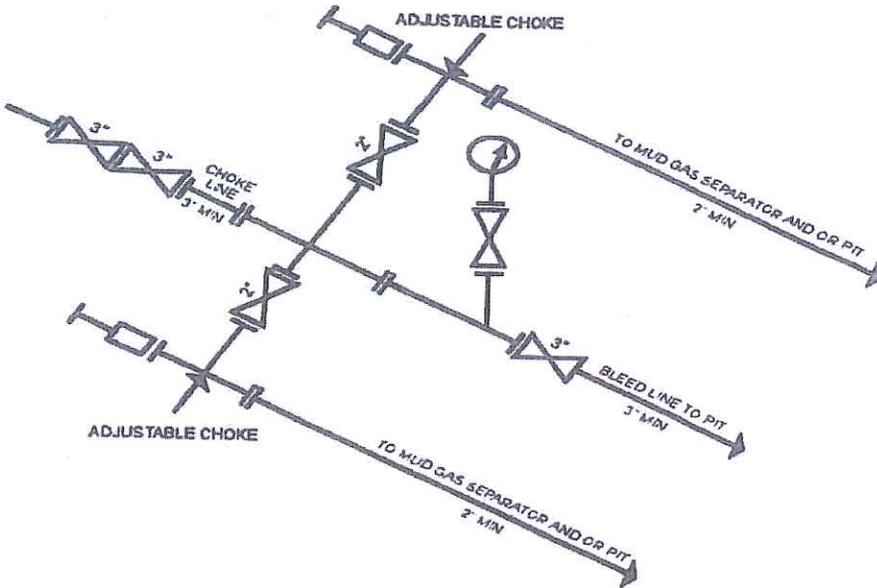
No abnormal temperatures or pressures are anticipated. No H₂S has been encountered or is known to exist from previous wells drilled to similar depths in the general area. Maximum anticipated bottom-hole pressure equals approximately 3,952 psi. Maximum anticipated bottom hole temperature is approximately 150°F.

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ONSHORE OIL & GAS ORDER NO. 1
QEP ENERGY COMPANY
OP 4G2-7-20
3M BOP STACK



ONSHORE OIL & GAS ORDER NO. 1
QEP ENERGY COMPANY
OP 4G2-7-20



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

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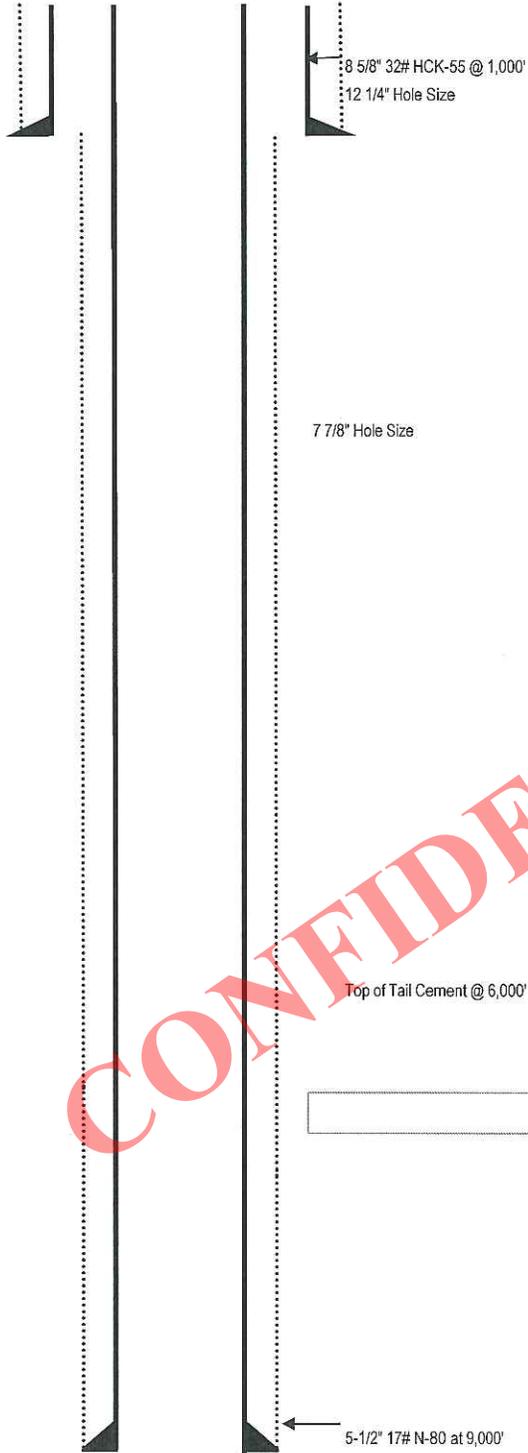
OP 4G2-7-20

Updated 06-18-2013 CRA

Proposed WBD
Uinta Basin
Section 2, T7S, R20E, Uintah County

KB 4,972'
GL 4,956'

NOTE: NOT TO SCALE



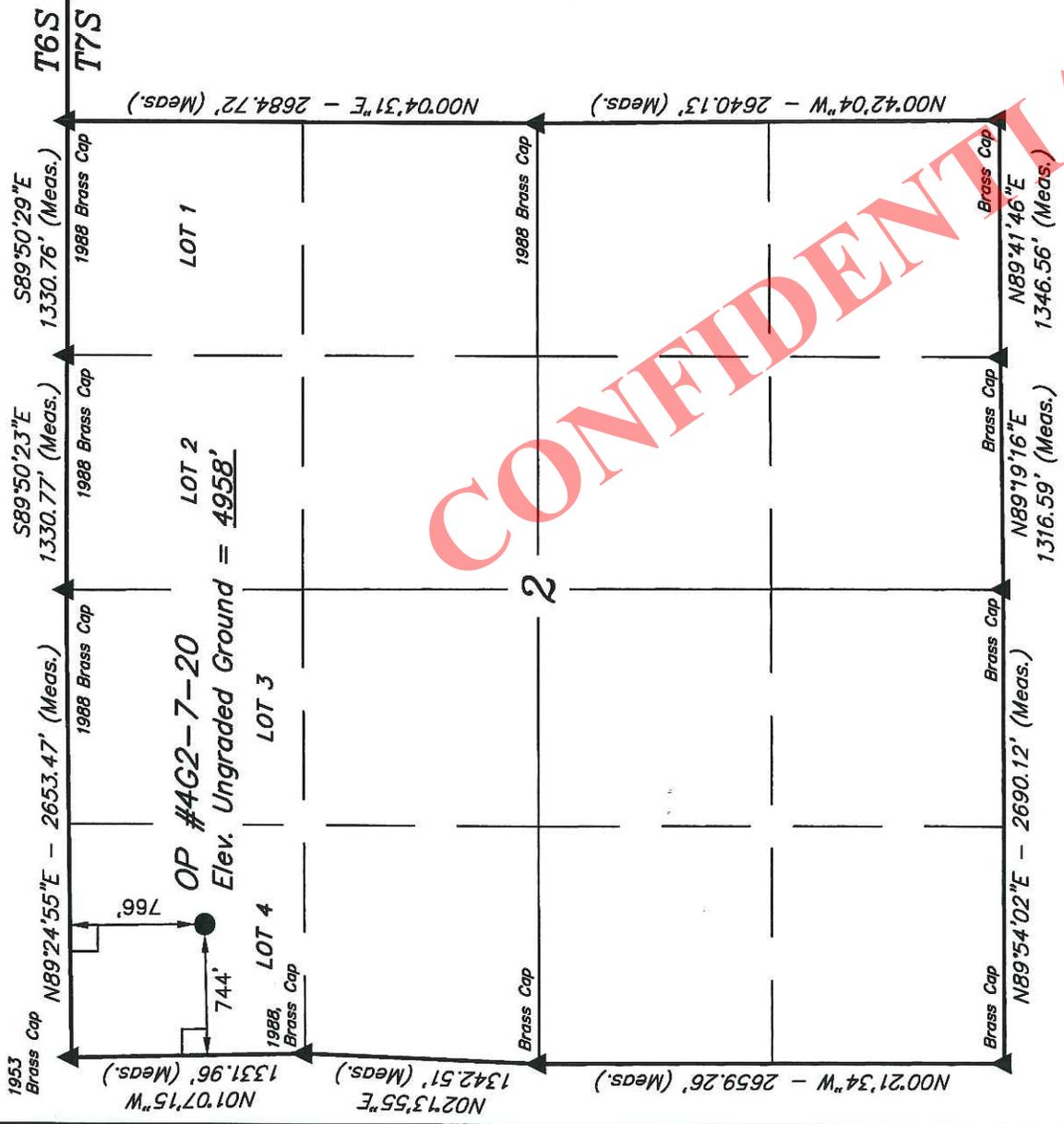
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T7S, R20E, S.L.B.&M.

QEP ENERGY COMPANY

Well location, OP #4G2-7-20, located as shown in Lot 4 of Section 2, T7S, R20E, S.L.B.&M., Uintah County, Utah.



BASIS OF ELEVATION

BENCH MARK (38EAM) LOCATED IN THE SW 1/4 OF SECTION 9, T7S, R20E, S.L.B.&M. TAKEN FROM THE PELICAN LAKE, 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 4942 FEET.

BASIS OF BEARINGS

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



CERTIFICATE

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

Robert J. [Signature]
 REGISTERED LAND SURVEYOR
 REGISTRATION NO. 161319
 STATE OF UTAH 08-07-12

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

SCALE	1" = 1000'	DATE SURVEYED:	07-24-12	DATE DRAWN:	08-02-12
PARTY	B.H. B.H. R.L.L.	REFERENCES	G.L.O. PLAT		
WEATHER	HOT	FILE	QEP ENERGY COMPANY		

NAD 83 (SURFACE LOCATION)	
LATITUDE = 40°14'43.47"	(40.245408)
LONGITUDE = 109°38'36.54"	(109.643483)
NAD 27 (SURFACE LOCATION)	
LATITUDE = 40°14'43.61"	(40.245447)
LONGITUDE = 109°38'34.04"	(109.642789)

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

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OP #4G2-7-20

LOCATED IN UINTAH COUNTY, UTAH
SECTION 2, T7S, R20E, S.L.B.&M.

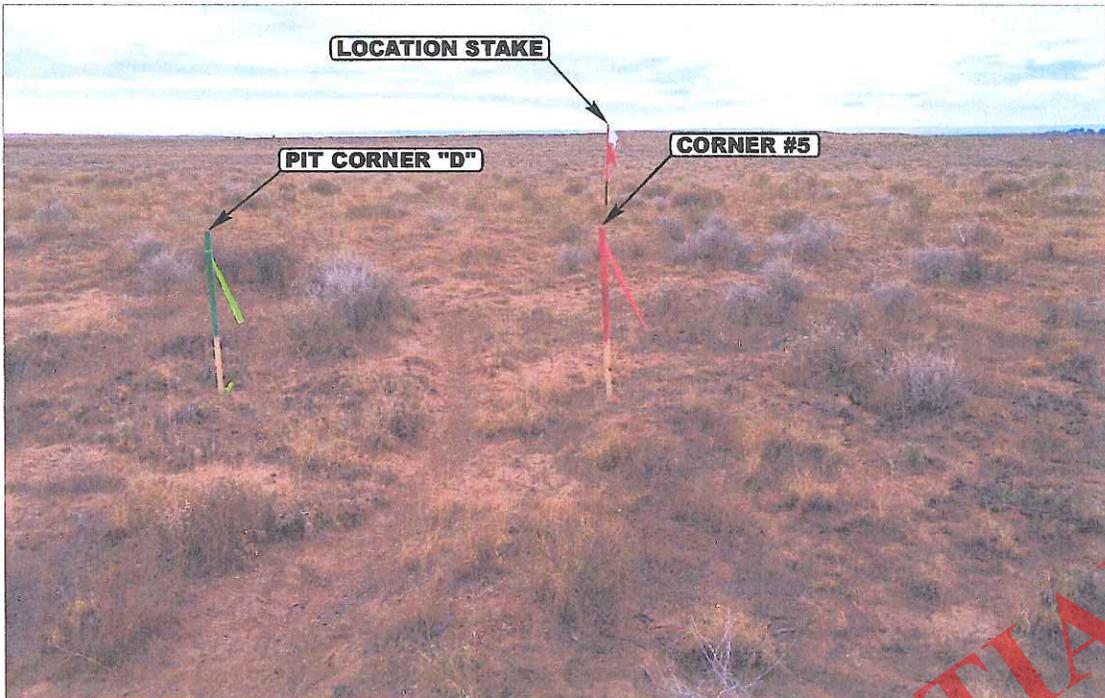


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: SOUTHEASTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: SOUTHWESTERLY

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- Since 1964 -

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

LOCATION PHOTOS	07	30	12	PHOTO
	MONTH	DAY	YEAR	
TAKEN BY: B.H.	DRAWN BY: J.L.G.		REVISED: 00-00-00	

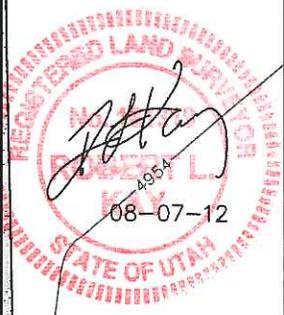
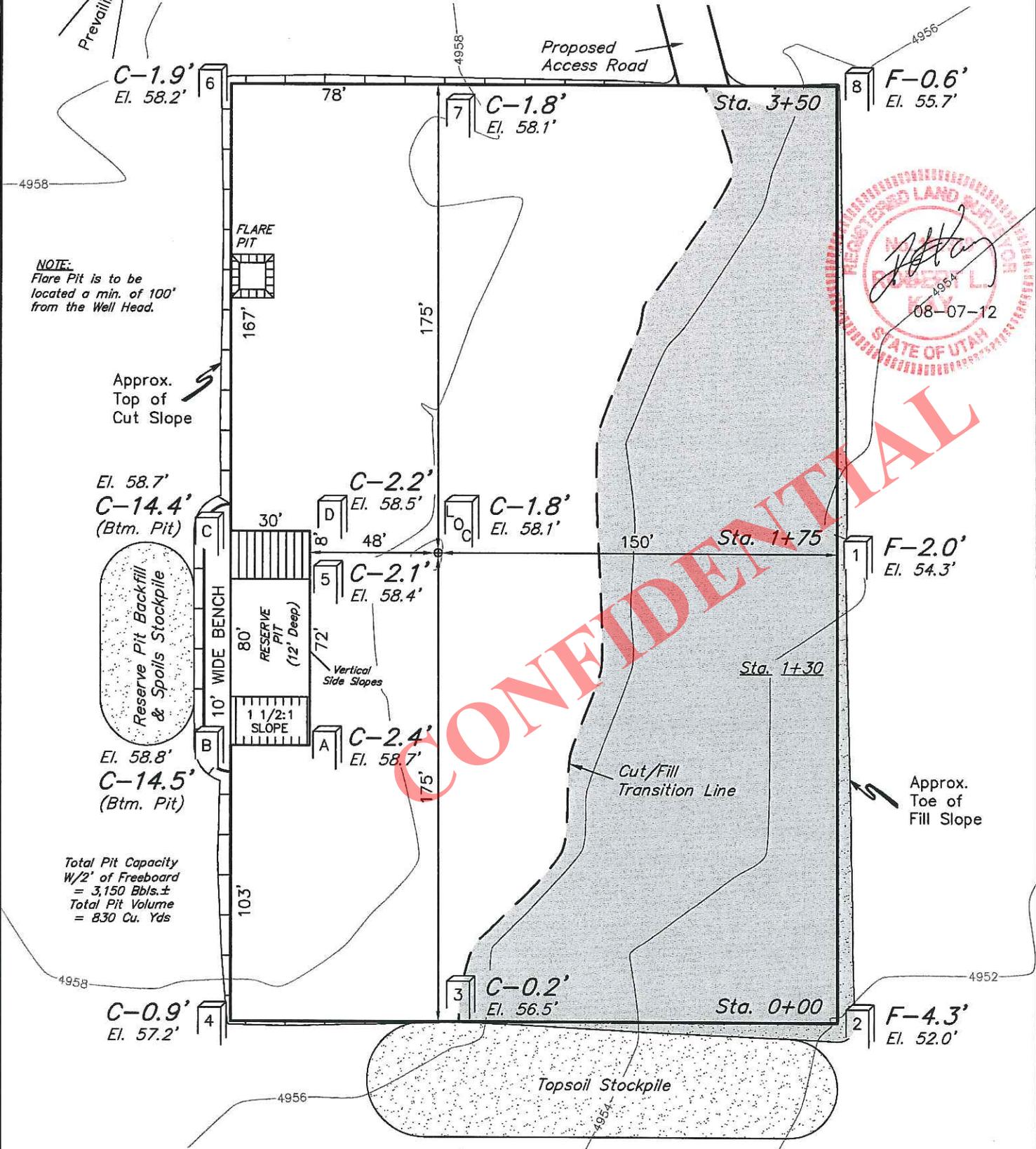
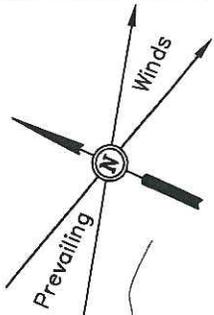
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LOCATION LAYOUT FOR

OP #4G2-7-20
SECTION 2, T7S, R20E, S.L.B.&M.
766' FNL 744' FWL

FIGURE #1

SCALE: 1" = 50'
DATE: 08-02-12
DRAWN BY: R.L.L.



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

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

Elev. Ungraded Ground At Loc. Stake = 4958.1'
FINISHED GRADE ELEV. AT LOC. STAKE = 4956.3'

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TYPICAL CROSS SECTIONS FOR

OP #4G2-7-20

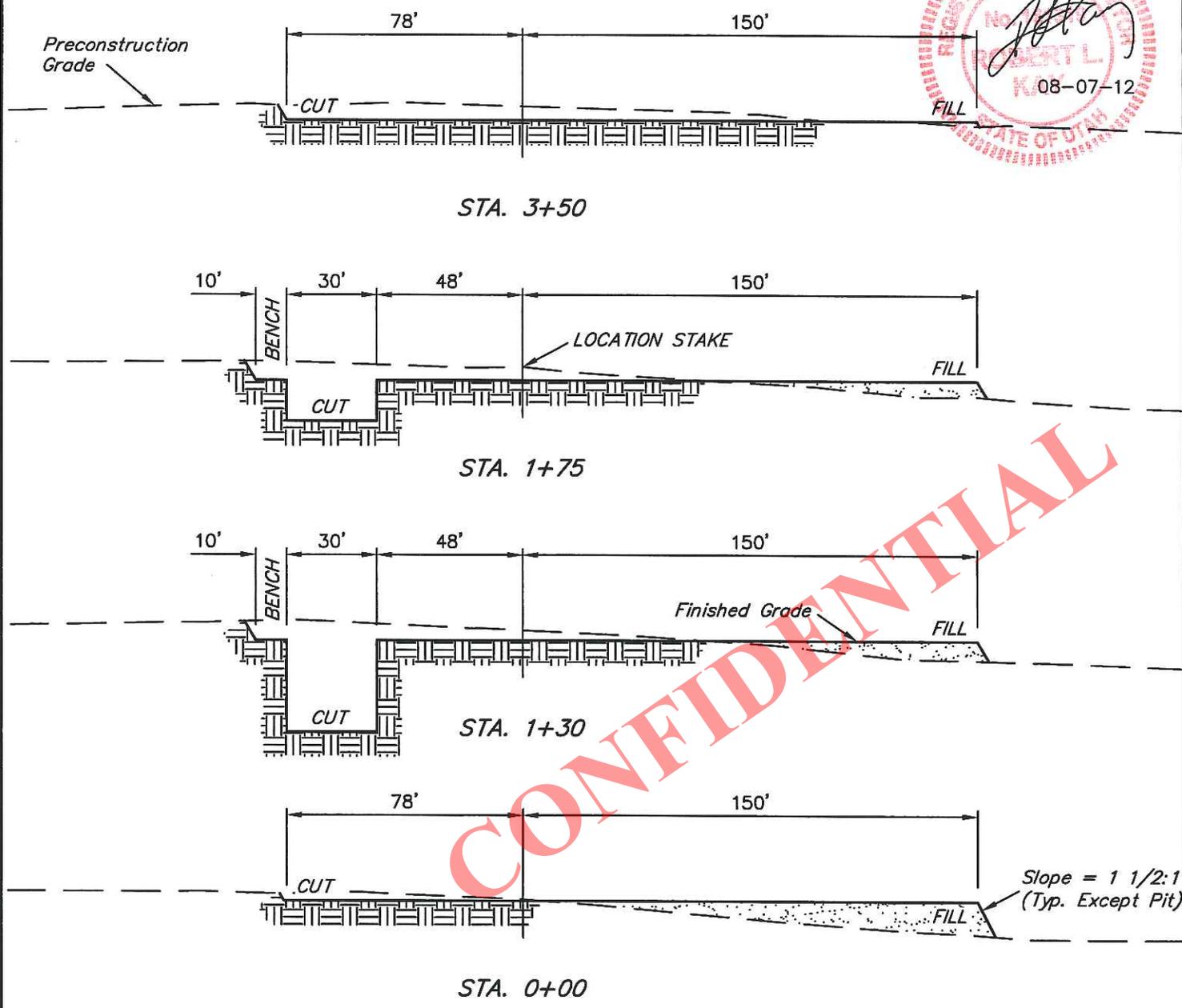
SECTION 2, T7S, R20E, S.L.B.&M.

766' FNL 744' FWL

FIGURE #2

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

DATE: 08-02-12
DRAWN BY: R.L.L.



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

APPROXIMATE ACREAGES
 WELL SITE DISTURBANCE = ± 2.089 ACRES
 ACCESS ROAD DISTURBANCE = ± 0.271 ACRES
 PIPELINE DISTURBANCE = ± 1.225 ACRES
TOTAL = ± 3.585 ACRES

*** NOTE:**
FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

(6") Topsoil Stripping	=	1,560 Cu. Yds.
Remaining Location	=	2,890 Cu. Yds.
TOTAL CUT	=	4,450 CU. YDS.
FILL	=	2,470 CU. YDS.

EXCESS MATERIAL	=	1,980 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	=	1,980 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	=	0 Cu. Yds.

QEP ENERGY COMPANY

TYPICAL RIG LAYOUT FOR

OP #4G2-7-20

SECTION 2, T7S, R20E, S.L.B.&M.

766' FNL 744' FWL

FIGURE #3

SCALE: 1" = 50'

DATE: 08-02-12

DRAWN BY: R.L.L.



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

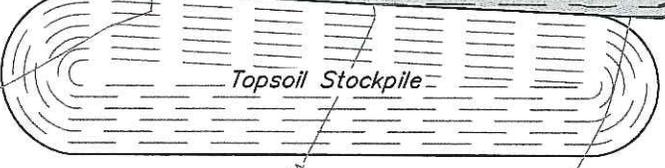
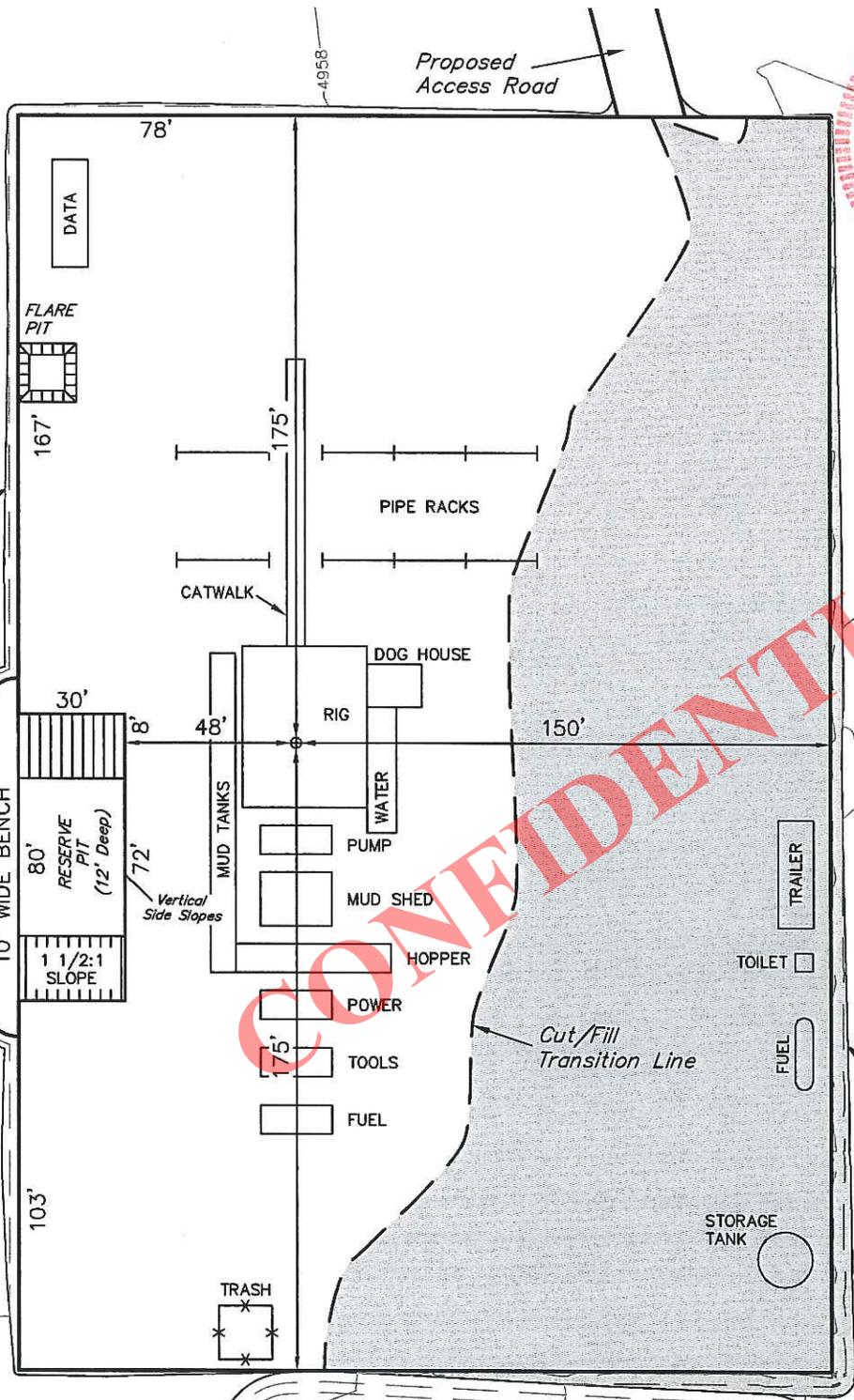
Approx. Top of Cut Slope

Reserve Pit Backfill & Spoils Stockpile

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

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Approx. Toe of Fill Slope



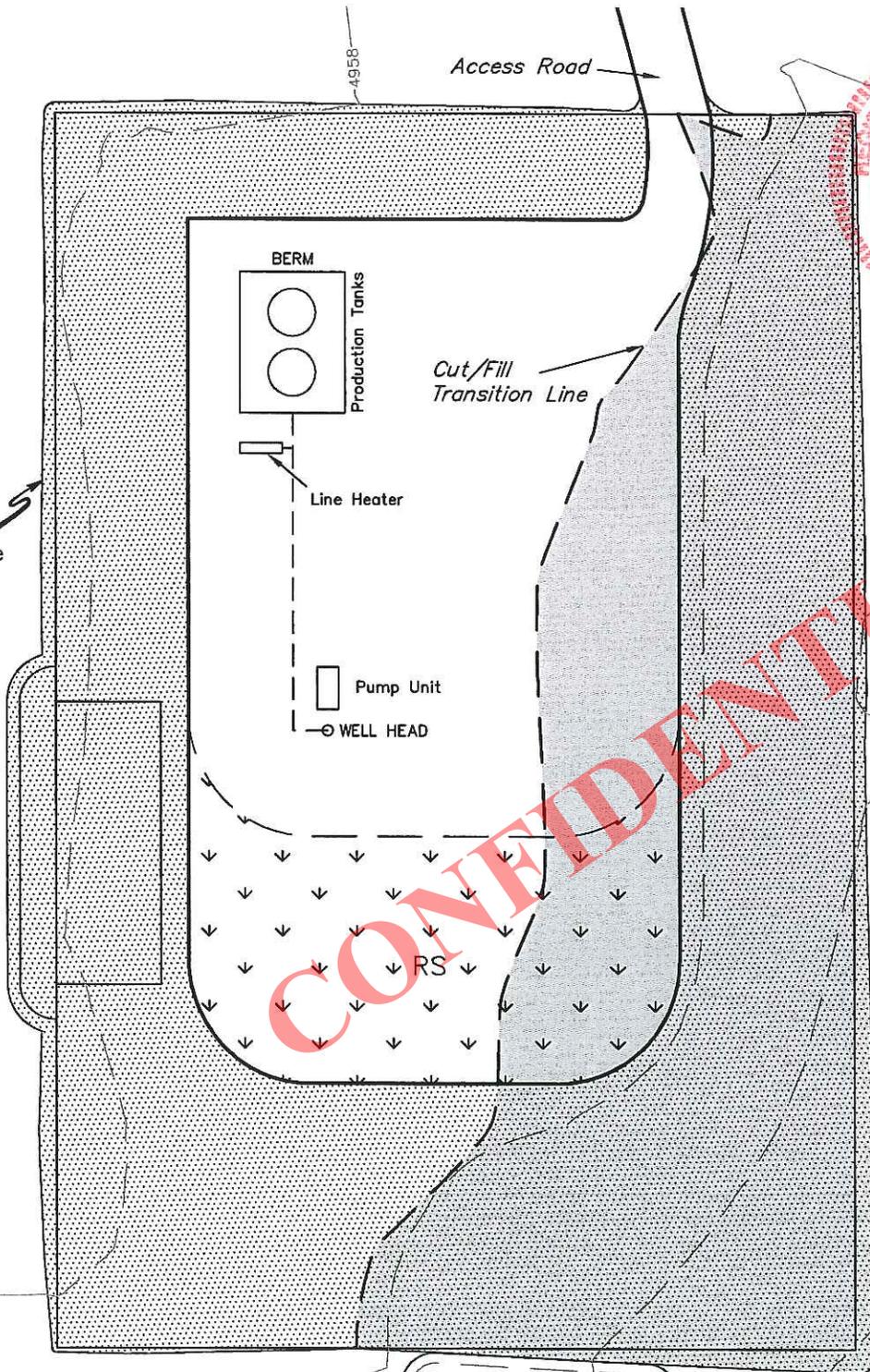
QEP ENERGY COMPANY
PRODUCTION FACILITY LAYOUT FOR
OP #4G2-7-20
SECTION 2, T7S, R20E, S.L.B.&M.
766' FNL 744' FWL

FIGURE #4

SCALE: 1" = 50'
DATE: 08-02-12
DRAWN BY: R.L.L.



Approx.
Top of
Cut Slope



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Approx.
Toe of
Fill Slope

RECLAIMED AREA
 RESEED AREA

APPROXIMATE ACREAGES
UN-RECLAIMED = ± 0.567 ACRES

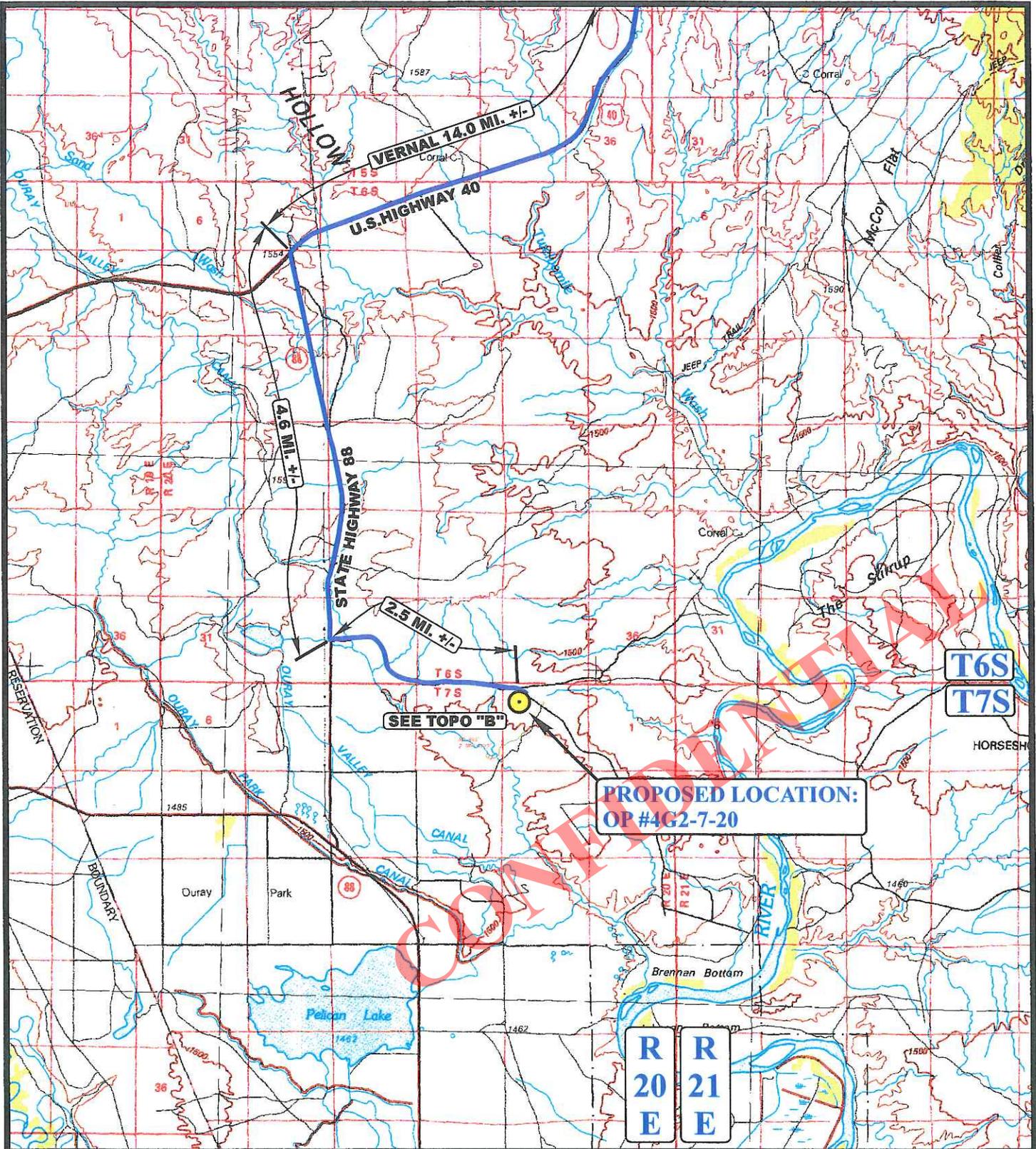
UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

QEP ENERGY COMPANY
OP #4G2-7-20
SECTION 2, T7S, R20E, S.L.B.&M.

PROCEED IN AN WESTERLY, THEN SOUTHWESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF HIGHWAY 40 AND STATE HIGHWAY 88 TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 4.6 MILES TO THE JUNCTION OF STATE HIGHWAY 88 AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 2.5 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN RIGHT AND PROCEED IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 0.1 MILES TO THE BEGINNING OF THE PROPOSED ACCESS ROAD TO THE SW; FOLLOW ROAD FLAGS IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 393' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 21.3 MILES.

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LEGEND:

 PROPOSED LOCATION



QEP ENERGY COMPANY

OP #4G2-7-20
SECTION 2, T7S, R20E, S.L.B.&M.
766' FNL 744' FWL



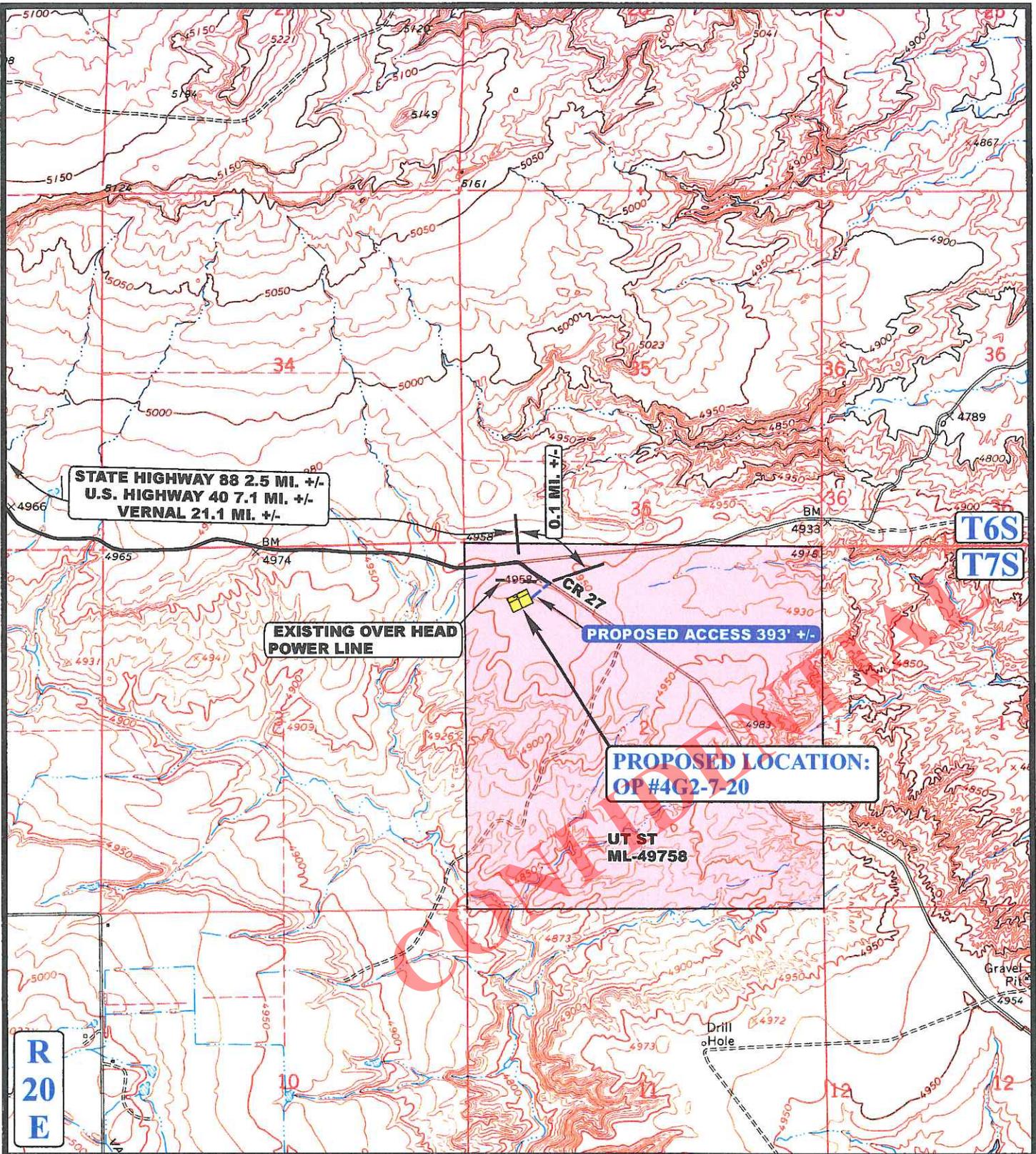
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
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**ACCESS ROAD
MAP**

07	30	12
MONTH	DAY	YEAR

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





STATE HIGHWAY 88 2.5 MI. +/-
 U.S. HIGHWAY 40 7.1 MI. +/-
 VERNAL 21.1 MI. +/-

EXISTING OVER HEAD
 POWER LINE

PROPOSED ACCESS 393' +/-

PROPOSED LOCATION:
 OP #4G2-7-20

UT ST
 ML-49758

R
 20
 E

LEGEND:

- EXISTING ROAD
- - - - - EXISTING POWER LINE
- - - - - PROPOSED ACCESS ROAD

QEP ENERGY COMPANY

OP #4G2-7-20
 SECTION 2, T7S, R20E, S.L.B.&M.
 766' FNL 744' FWL



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

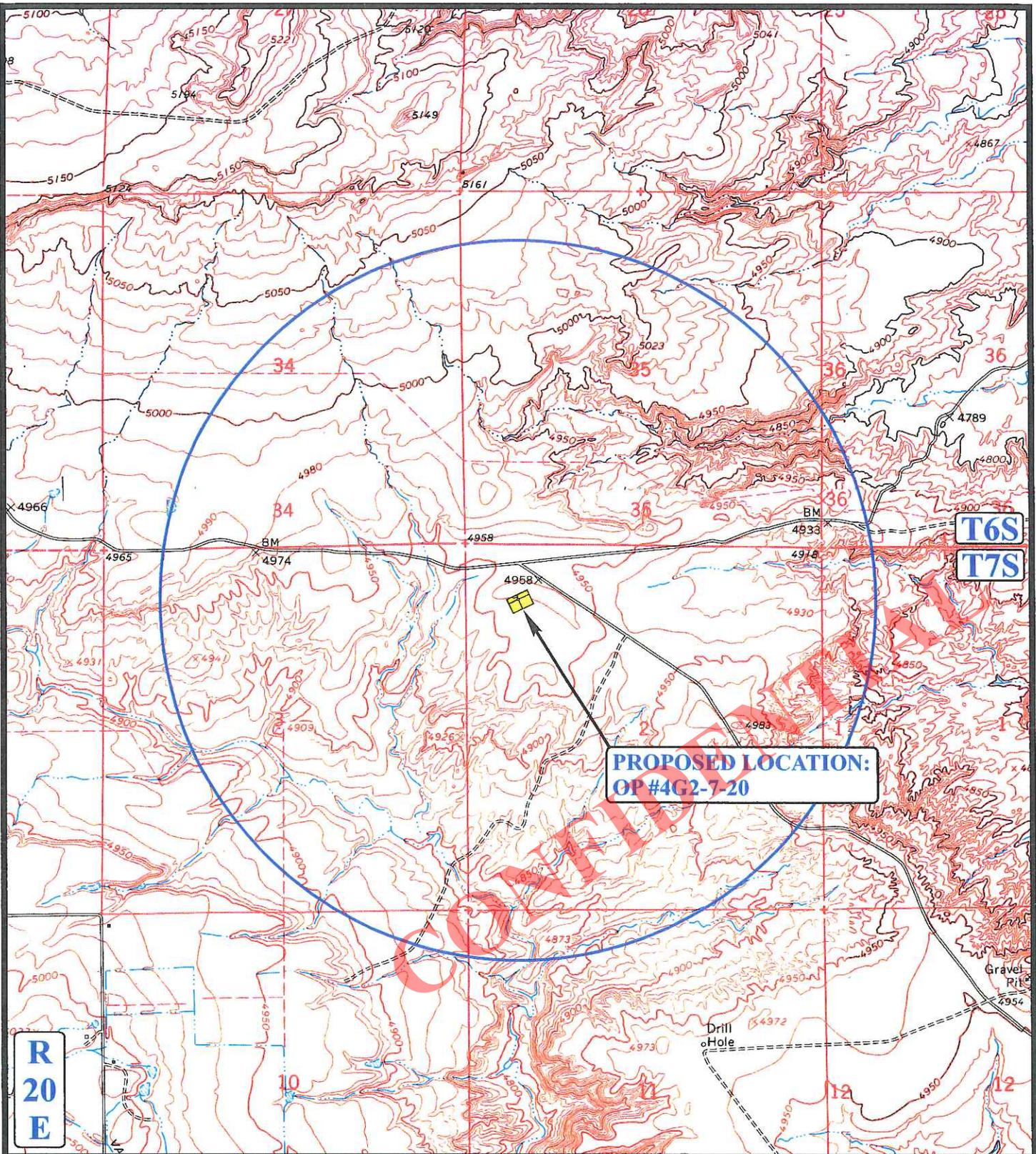


**ACCESS ROAD
 MAP**

07	30	12
MONTH	DAY	YEAR

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





**PROPOSED LOCATION:
OP #4G2-7-20**

**R
20
E**

**T6S
T7S**

LEGEND:

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

QEP ENERGY COMPANY

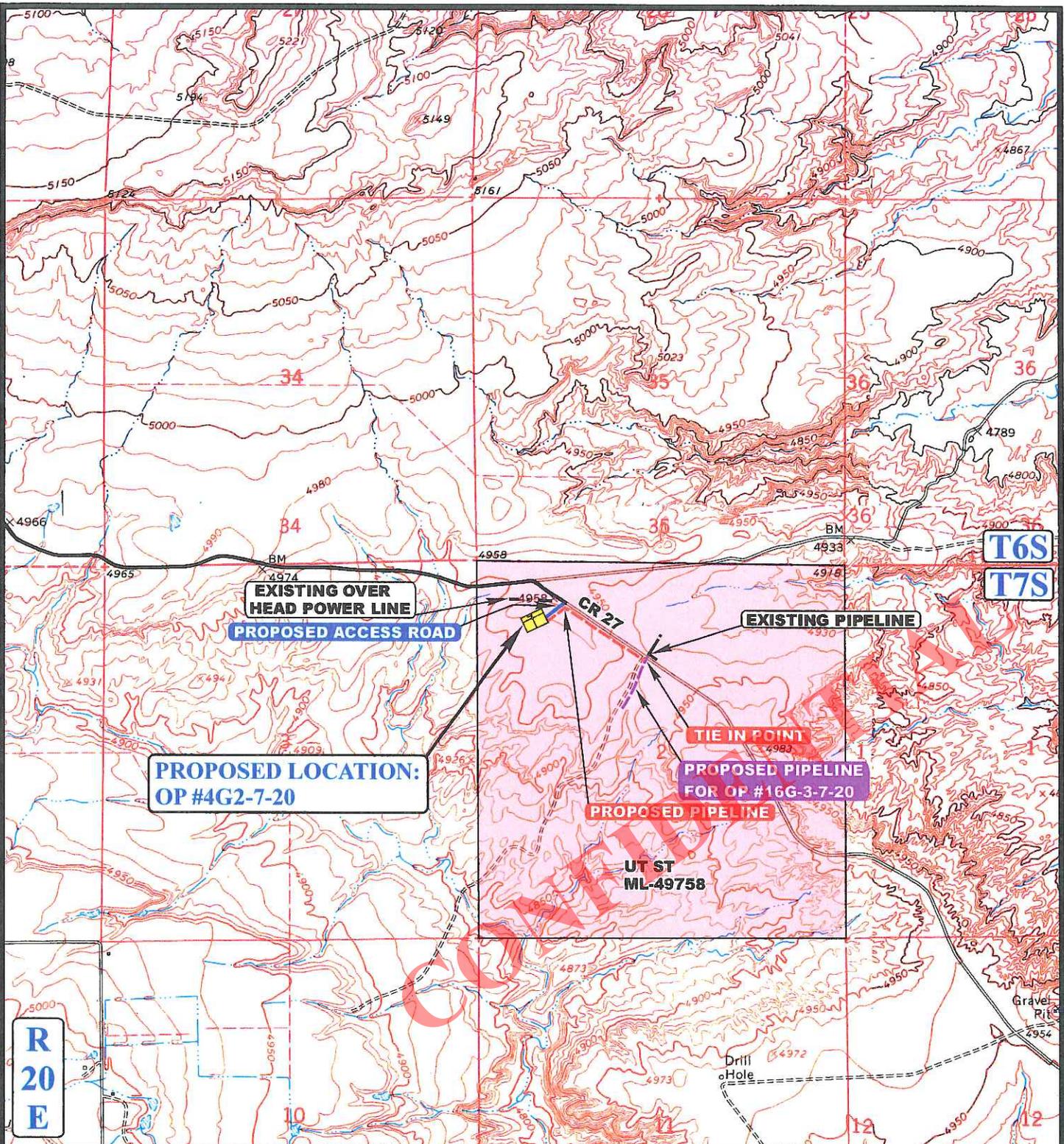
**OP #4G2-7-20
SECTION 2, T7S, R20E, S.L.B.&M.
766' FNL 744' FWL**



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



TOPOGRAPHIC MAP	07 MONTH	30 DAY	12 YEAR	C TOPO
SCALE: 1" = 2000'	DRAWN BY: J.L.G.		REVISED: 00-00-00	



APPROXIMATE TOTAL PIPELINE DISTANCE = 1,778' +/-

LEGEND:

- EXISTING PIPELINE
- - - EXISTING POWER LINE
- PROPOSED PIPELINE
- PROPOSED ACCESS



QEP ENERGY COMPANY

OP #4G2-7-20
SECTION 2, T7S, R20E, S.L.B.&M.
766' FNL 744' FWL

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

TOPOGRAPHIC MAP **07 30 12**
 MONTH DAY YEAR
 SCALE: 1" = 2000' DRAWN BY: J.L.G. REVISED: 00-00-00 **D TOPO**

**QEP ENERGY COMPANY
OP 4G-2-7-20
LOT 4, SECTION 2, T7S, R20E
UINTAH COUNTY, UT
LEASE # ML-49758**

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. Existing Roads:

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

The proposed well site is located approximately 21 miles southwest of Vernal, Utah.

-See attached TOPO Map "A".

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

Existing roads will be maintained and repaired as necessary.

2. Planned Access Roads:

An off lease right-of-way is not required. The entire well pad, access road, and pipeline are located within State Lease ML-49758.

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

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

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

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

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

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

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

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

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

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

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

Please refer to Topo map C.

4. Location of Existing and Proposed Facilities:

The following guidelines will apply if the well is productive.

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

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

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

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

GAS SALES LINE: The pipeline will be unpainted steel, 4" inside diameter, welded, schedule # 20 or greater. The pipeline will be 1,778' in length, 30' in width, containing approximately 1.22 acres. The pipeline will be strung along the right-of-way and welded into place. The pipeline will tie into our proposed pipe line for the OP 16G-3-7-20. The tie-in point is located in the SENW, Section 2, T7S, R20E.

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

5. Location and Type of Water Supply:

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

6. Source of Construction Materials:

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

Any gravel will be obtained from a commercial source.

7. Methods of Handling Waste Materials:

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

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

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

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

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

Disposal of Produced Water:

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

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

Red Wash Disposal well located in the SESE, Section 28, T7S, R23E;
West End Disposal located in the NESE, Section 28, T7S, R22E;
NBE 12SWD-10-9-23 Disposal located in NWSW, Section 10, T9S, R23E,
or third-party surface evaporative pits.

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

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

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

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

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

8. Ancillary Facilities:

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

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

9. Well Site Layout:

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

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

The reserve pit.

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

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

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

10. Fencing Requirements:

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

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

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

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

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

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

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

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

11. Reclamation Plan:

Reclamation will follow QEP Energy Company, Uinta Basin Division's Reclamation Plan, September 2009 (QEP'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 disced if needed.

Water courses and drainages will be restored.

Erosion control devices will be installed where needed.

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

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

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

A reference site has been established and is included in this application.

Please see attached Weed Data Sheet.

Dry Hole/Abandoned Location

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

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

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

12. Surface Ownership:

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

State of Utah
Trust Lands Administration
675 East, 500 South – Suite 500
Salt Lake City, UT. 84102

13. Other Information:

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

A Class III archeological survey was conducted by Montgomery Archaeology Consultants. A copy of this report was submitted on September 6, 2012, **State of Utah Antiquities Project U-12-MQ-0778s**, by Montgomery Archaeology Consultants. Cultural resource clearance has been recommended for this project. If these surveys identify areas with a high probability of encountering potentially significant subsurface archaeological sites, QEP would provide a qualified archaeologist to monitor surface disturbance. If historic or archaeological materials are uncovered during construction, the Operator is to immediately stop work that might further disturb such materials and contact the Authorized Officer.

A paleontological survey was conducted by Intermountain Paleo Consulting. A copy of this report was submitted on August 8, 2012, **Report No. IPC 12-124** by Stephen D. Sandau. The inspection resulted in the location of no fossils resources; therefore, it's recommended that no restriction should be placed on this project. However, if vertebrate fossil(s) are found during construction a paleontologist should be immediately notified. QEP will provide paleo monitor if needed.

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Lessee's or Operator's Representative & Certification:

Valyn Davis
Regulatory Affairs Analyst
QEP Energy Company
11002 East 17500 South
Vernal, UT 84078
(435) 781-4369

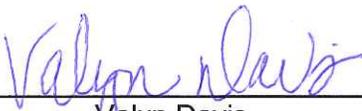
Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

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 for lease activities is being provided by Bond No. 965010695

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.

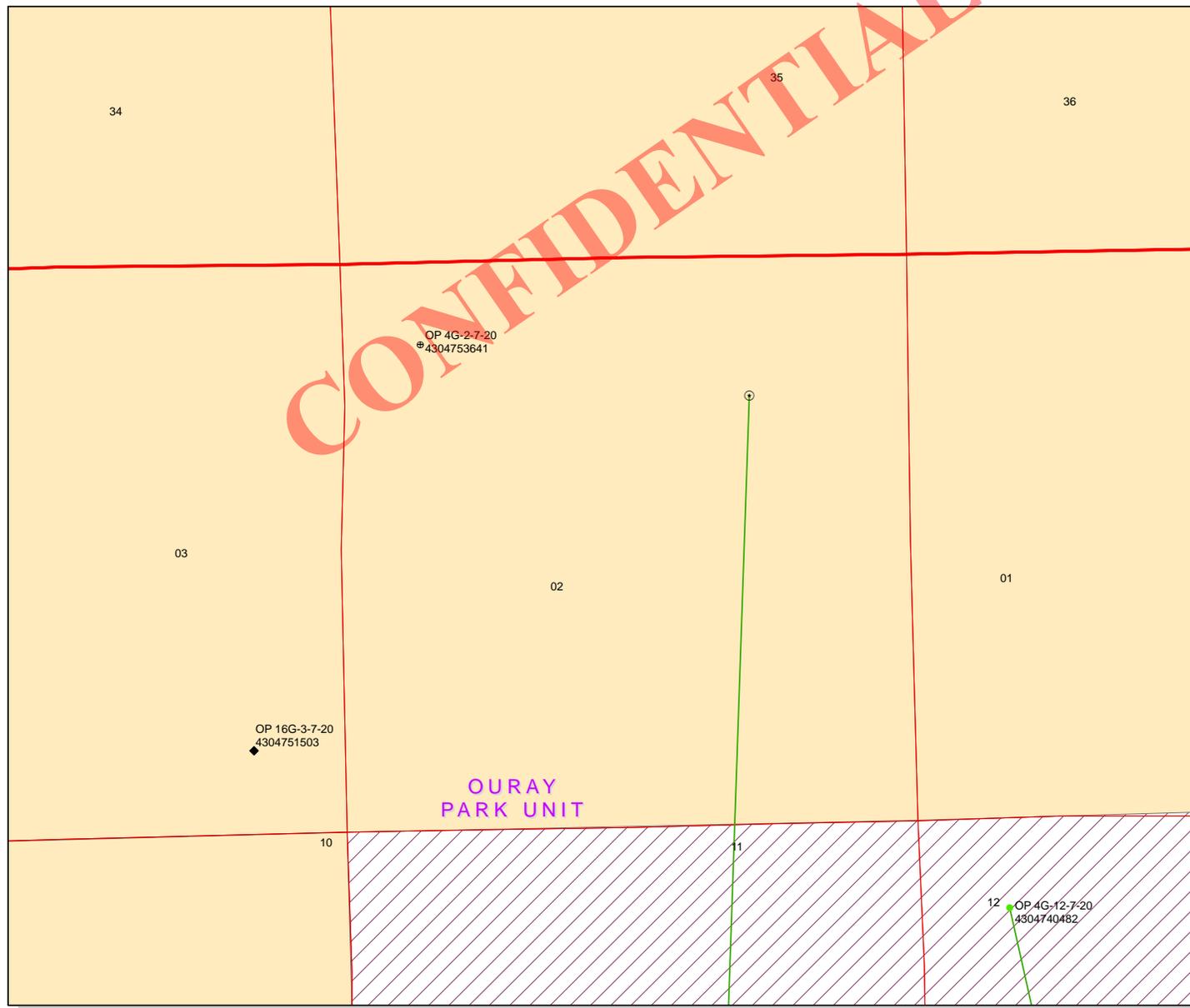


Valyn Davis

2/25/2013

Date

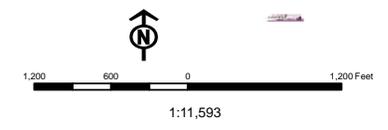
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API Number: 4304753641
Well Name: OP 4G-2-7-20
Township T07.0S Range R20.0E Section 02
Meridian: SLBM
Operator: QEP ENERGY COMPANY

Map Prepared:
 Map Produced by Diana Mason

- Units**
- ACTIVE
 - EXPLORATORY
 - GAS STORAGE
 - NF PP OIL
 - NF SECONDARY
 - PI OIL
 - PP GAS
 - PP GEOTHERMAL
 - PP OIL
 - SECONDARY
 - TERMINATED
- Fields**
- Unknown
 - ABANDONED
 - ACTIVE
 - COMBINED
 - INACTIVE
 - STORAGE
 - TERMINATED





Diana Mason <dianawhitney@utah.gov>

OP 4G-2-7-20

Jeff Conley <jconley@utah.gov>

Fri, May 10, 2013 at 9:10 AM

To: valyn.davis@qepres.com, Brad Hill <bradhill@utah.gov>, Diana Mason <dianawhitney@utah.gov>, Jim Davis <jimdavis1@utah.gov>, Lavonne Garrison <lavonnegarrison@utah.gov>

Hello all,

The following QEP well has been approved by SITLA including arch and paleo:

OP 4G-2-7-20
(4304753641)

Thank you,

--

Jeff Conley
SITLA Resource Specialist
jconley@utah.gov
801-538-5157

CONFIDENTIAL

Well Name	QEP ENERGY COMPANY OP 4G-2-7-20 43047536410000			
String	SURF	PROD		
Casing Size(")	9.625	5.500		
Setting Depth (TVD)	1000	9000		
Previous Shoe Setting Depth (TVD)	0	1000		
Max Mud Weight (ppg)	8.4	9.0		
BOPE Proposed (psi)	500	3000		
Casing Internal Yield (psi)	3930	7740		
Operators Max Anticipated Pressure (psi)	3952	8.4		

Calculations	SURF String	9.625	"	
Max BHP (psi)	.052*Setting Depth*MW=	437		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	317	YES	air drill
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	217	YES	OK
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	217	NO	OK
Required Casing/BOPE Test Pressure=		1000	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient	

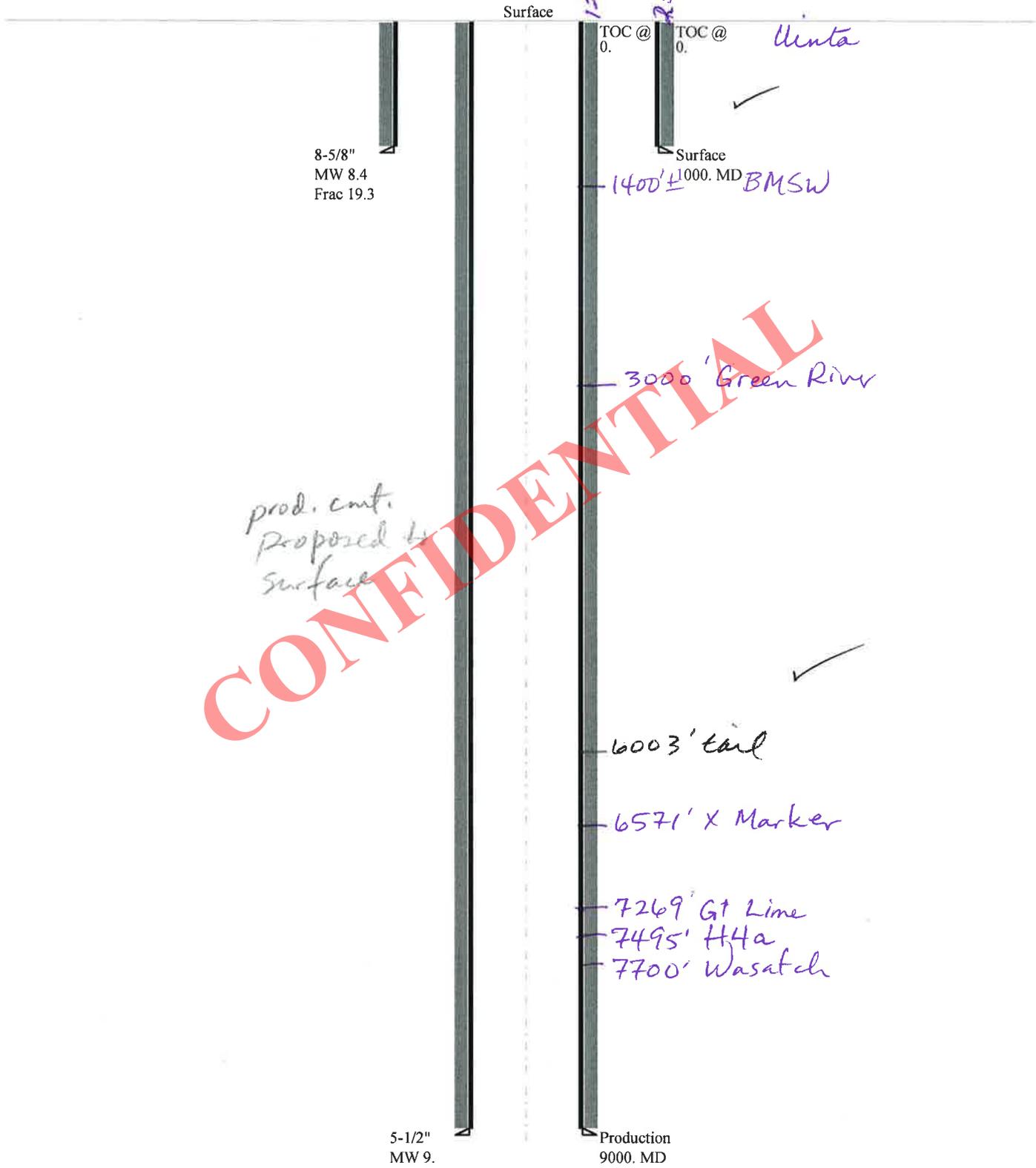
Calculations	PROD String	5.500	"	
Max BHP (psi)	.052*Setting Depth*MW=	4212		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	3132	NO	3M BOPE double gate w/annular
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	2232	YES	OK
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	2452	NO	
Required Casing/BOPE Test Pressure=		3000	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		1000	psi *Assumes 1psi/ft frac gradient	

Calculations	String		"	
Max BHP (psi)	.052*Setting Depth*MW=			
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO	
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO	
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO	
Required Casing/BOPE Test Pressure=			psi	
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient	

Calculations	String		"	
Max BHP (psi)	.052*Setting Depth*MW=			
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO	
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO	
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO	
Required Casing/BOPE Test Pressure=			psi	
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient	

43047536410000 OP 4G-2-7-20

Casing Schematic



CONFIDENTIAL

Well name:	43047536410000 OP 4G-2-7-20	
Operator:	QEP ENERGY COMPANY	Project ID:
String type:	Surface	43-047-53641
Location:	UINTAH COUNTY	

Design parameters:

Collapse

Mud weight: 8.400 ppg
 Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
 Surface temperature: 74 °F
 Bottom hole temperature: 88 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 100 ft

Cement top: Surface

Burst

Max anticipated surface pressure: 880 psi
 Internal gradient: 0.120 psi/ft
 Calculated BHP 1,000 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
 8 Round LTC: 1.70 (J)
 Buttress: 1.60 (J)
 Premium: 1.50 (J)
 Body yield: 1.50 (B)

Tension is based on buoyed weight.
 Neutral point: 875 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 9,000 ft
 Next mud weight: 9.000 ppg
 Next setting BHP: 4,208 psi
 Fracture mud wt: 19.250 ppg
 Fracture depth: 1,000 ft
 Injection pressure: 1,000 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	1000	8.625	32.00	HCK-55	LT&C	1000	1000	7.875	9371
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	436	4130	9.466	1000	3930	3.93	28	503.2	17.97 B

Prepared by: Helen Sadik-Macdonald
 Div of Oil, Gas & Mining

Phone: 801 538-5357
 FAX: 801-359-3940

Date: June 25, 2013
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 1000 ft, a mud weight of 8.4 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:	43047536410000 OP 4G-2-7-20		
Operator:	QEP ENERGY COMPANY		
String type:	Production	Project ID:	43-047-53641
Location:	UINTAH COUNTY		

Design parameters:

Collapse

Mud weight: 9.000 ppg
 Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Environment:

H2S considered? No
 Surface temperature: 74 °F
 Bottom hole temperature: 200 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 1,000 ft

Burst:

Design factor 1.00

Cement top: Surface

Burst

Max anticipated surface pressure: 2,228 psi
 Internal gradient: 0.220 psi/ft
 Calculated BHP 4,208 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
 8 Round LTC: 1.80 (J)
 Buttress: 1.60 (J)
 Premium: 1.50 (J)
 Body yield: 1.60 (B)

Non-directional string.

Tension is based on air weight.
 Neutral point: 7,772 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	9000	5.5	17.00	N-80	LT&C	9000	9000	4.767	50728
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	4208	6290	1.495	4208	7740	1.84	153	348	2.27 J

Prepared by: Helen Sadik-Macdonald
 Div of Oil, Gas & Mining

Phone: 801 538-5357
 FAX: 801-359-3940

Date: June 25, 2013
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 9000 ft, a mud weight of 9 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator QEP ENERGY COMPANY
Well Name OP 4G-2-7-20
API Number 43047536410000 **APD No** 7701 **Field/Unit** WILDCAT
Location: 1/4,1/4 NWNW **Sec 2 Tw** 7.0S **Rng** 20.0E 766 FNL 744 FWL
GPS Coord (UTM) 615375 4455885 **Surface Owner**

Participants

Jan Nelson, Amanda Taylor, Valyn Davis, Jeff Atwood and Eric Wickersham (QEP), Brandon Bowthorpe (surveyor), Jeff Conley, Jim Davis, Lavonne Garrison (SITLA)

Regional/Local Setting & Topography

This proposed location sits about 2 miles east of State Highway 88 and about 3 miles northeast of Pelican Lake in the Brennan Bottom oil field. The Green River is just over 2 miles to the east. This location sits on a slightly elevated knoll which lies on a high flat bench. The bench slopes away to the north and west well away from the location.

Surface Use Plan

Current Surface Use
Wildlfe Habitat

New Road Miles	Well Pad Width 228 Length 350	Src Const Material	Surface Formation
0.07		Offsite	UNTA

Ancillary Facilities N

Waste Management Plan Adequate? Y

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Greasewood, grasses, spiny hopsage, prickly pear

Soil Type and Characteristics

Sandy clay loam with some gravel

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diverson Required? N

Berm Required? Y

Land slopes off to large draw to north and west

Erosion Sedimentation Control Required? N**Paleo Survey Run? Y Paleo Potential Observed? N Cultural Survey Run? Y Cultural Resources? N****Reserve Pit****Site-Specific Factors****Site Ranking**

Distance to Groundwater (feet)	100 to 200	5
Distance to Surface Water (feet)	>1000	0
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)	>1320	0
Native Soil Type	Mod permeability	10
Fluid Type	TDS>10000	15
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)	10 to 20	5
Affected Populations		
Presence Nearby Utility Conduits	Unknown	10
Final Score		45 1 Sensitivity Level

Characteristics / Requirements

A small deep reserve pit 30ft wide x 80ft long x 12ft deep is proposed. The reserve pit will be placed in a cut and stable location. Eric Wickersham of QEP stated that they would use a 20 or 30 mil liner. Either appears to be adequate. A felt subliner will be used.

Closed Loop Mud Required? N Liner Required? Y Liner Thickness 20 Pit Underlayment Required? Y**Other Observations / Comments**

Richard Powell
Evaluator

5/7/2013
Date / Time

Application for Permit to Drill Statement of Basis

Utah Division of Oil, Gas and Mining

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
7701	43047536410000	LOCKED	OW	S	No
Operator	QEP ENERGY COMPANY		Surface Owner-APD		
Well Name	OP 4G-2-7-20		Unit		
Field	WILDCAT		Type of Work	DRILL	
Location	NWNW 2 7S 20E S 766 FNL (UTM) 615374E 4455877N		744 FWL GPS Coord		

Geologic Statement of Basis

QEP proposes to set 480 feet of surface pipe, cemented to surface. The depth to the base of the moderately saline water at this location is estimated to be at approximately 1,400 feet. A search of Division of Water Rights records shows 11 water wells within a 10,000 foot radius of the center of Section 2. Well uses are listed for irrigation, domestic, and stock watering. Depth is listed as ranging between 16 and 400 feet. All water wells are located more than 1 mile from the proposed location. Listed wells probably produce from the Uinta Formation. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. Surface casing should be extended to isolate expected zones of fresh ground water.

Brad Hill
APD Evaluator

5/20/2013
Date / Time

Surface Statement of Basis

This proposed well is on state surface with state minerals. The site is on an elevated bench in the Brennan Bottoms field northeast of Pelican Lake and about 2 miles west of the Green River. The area of this location is quite flat and no drainages appear to be effected by this well pad. SITLA representatives Lavonne Garrison, Jim Davis and Jeff Conley were all present for this onsite inspection. Lavonne Garrison asked about threatened and endangered species in the area and according to QEP reclamation specialist Amanda Taylor stated that this site is clear of any endangered species concerns. Valyn Davis of QEP informed the group that both Archeology and Paleontology reviews had been done and the site was cleared for both. No other concerns were mentioned by SITLA. Reserve pit liner was then discussed and Eric Wickersham of QEP stated that QEP would use a 20 mil liner and this seems adequate for the site. Ben Williams of DWR was unable to attend this onsite inspection but was consulted and stated that had no concerns and would make no recommendation regarding this site. This appears to be a good spot for placement of this well.

Richard Powell
Onsite Evaluator

5/7/2013
Date / Time

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Surface	The well site shall be bermed to prevent fluids from leaving the pad.

Surface Drainages adjacent to the proposed pad shall be diverted around the location.
Surface The reserve pit shall be fenced upon completion of drilling operations.

CONFIDENTIAL

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 2/25/2013

API NO. ASSIGNED: 43047536410000

WELL NAME: OP 4G-2-7-20

OPERATOR: QEP ENERGY COMPANY (N3700)

PHONE NUMBER: 435 781-4369

CONTACT: Valyn Davis

PROPOSED LOCATION: NWNW 02 070S 200E

Permit Tech Review:

SURFACE: 0766 FNL 0744 FWL

Engineering Review:

BOTTOM: 0766 FNL 0744 FWL

Geology Review:

COUNTY: UINTAH

LATITUDE: 40.24540

LONGITUDE: -109.64353

UTM SURF EASTINGS: 615374.00

NORTHINGS: 4455877.00

FIELD NAME: WILDCAT

LEASE TYPE: 3 - State

LEASE NUMBER: ML49758

PROPOSED PRODUCING FORMATION(S): WASATCH

SURFACE OWNER: 3 - State

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

- PLAT
- Bond: STATE - 965010695
- Potash
- Oil Shale 190-5
- Oil Shale 190-3
- Oil Shale 190-13
- Water Permit: 49-251/49-2153
- RDCC Review: 2013-07-17 00:00:00.0
- Fee Surface Agreement
- Intent to Commingle

Commingle Approved

LOCATION AND SITING:

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

Comments: Presite Completed

Stipulations: 5 - Statement of Basis - bhill
 12 - Cement Volume (3) - hmacdonald
 21 - RDCC - dmason
 23 - Spacing - dmason
 25 - Surface Casing - hmacdonald



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: OP 4G-2-7-20
API Well Number: 43047536410000
Lease Number: ML49758
Surface Owner: STATE
Approval Date: 7/22/2013

Issued to:

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

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of R649-3-2. The expected producing formation or pool is the WASATCH 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:

The Application for Permit to Drill has been forwarded to the Resource Development Coordinating Committee for review of this action. The operator will be required to comply with any applicable recommendations resulting from this review. (See attached)

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

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Cement volume for the 5 1/2 production string shall be determined from actual hole diameter in order to place cement from the pipe setting depth back to surface as indicated in the submitted drilling plan.

Surface casing shall be cemented to the surface.

Additional Approvals:

The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan - contact Dustin Doucet
- Significant plug back of the well - contact Dustin Doucet
- Plug and abandonment of the well - contact Dustin Doucet

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
OR
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website
at <http://oilgas.ogm.utah.gov>
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing - contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program
- contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well - contact Dan Jarvis

Contact Information:

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office
801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office
801-231-8956 - after office hours

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

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: ML49758	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL Oil Well	7. UNIT or CA AGREEMENT NAME:
2. NAME OF OPERATOR: QEP ENERGY COMPANY	8. WELL NAME and NUMBER: OP 4G-2-7-20
3. ADDRESS OF OPERATOR: 11002 East 17500 South , Vernal, Ut, 84078	9. API NUMBER: 43047536410000
PHONE NUMBER: 303 308-3068 Ext	9. FIELD and POOL or WILDCAT: WILDCAT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0766 FNL 0744 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 02 Township: 07.0S Range: 20.0E 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: 5/30/2014	<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 type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="Pad Expansion"/>

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

QEP ENERGY COMPANY (QEP) REQUESTS TO EXPAND THE PAD FOR THE OP 4G-2-7-22 TO ACCOMODATE A LARGER DRILLING RIG AND TO ADDRESS SAFETY CONCERNS. QEP RECEIVED SITLA's APPROVAL, MARCH 10, 2014, FROM JIM DAVIS FOR THE REQUEST. PLEASE SEE ATTACHED: PLAT PACKAGE

Approved by the Utah Division of Oil, Gas and Mining
Date: March 25, 2014
By:

NAME (PLEASE PRINT) Jan Nelson	PHONE NUMBER 435 781-4331	TITLE Permit Agent
SIGNATURE N/A	DATE 3/12/2014	

QEP ENERGY COMPANY

OP #4G2-7-20

LOCATED IN UINTAH COUNTY, UTAH
SECTION 2, T7S, R20E, S.L.B.&M.

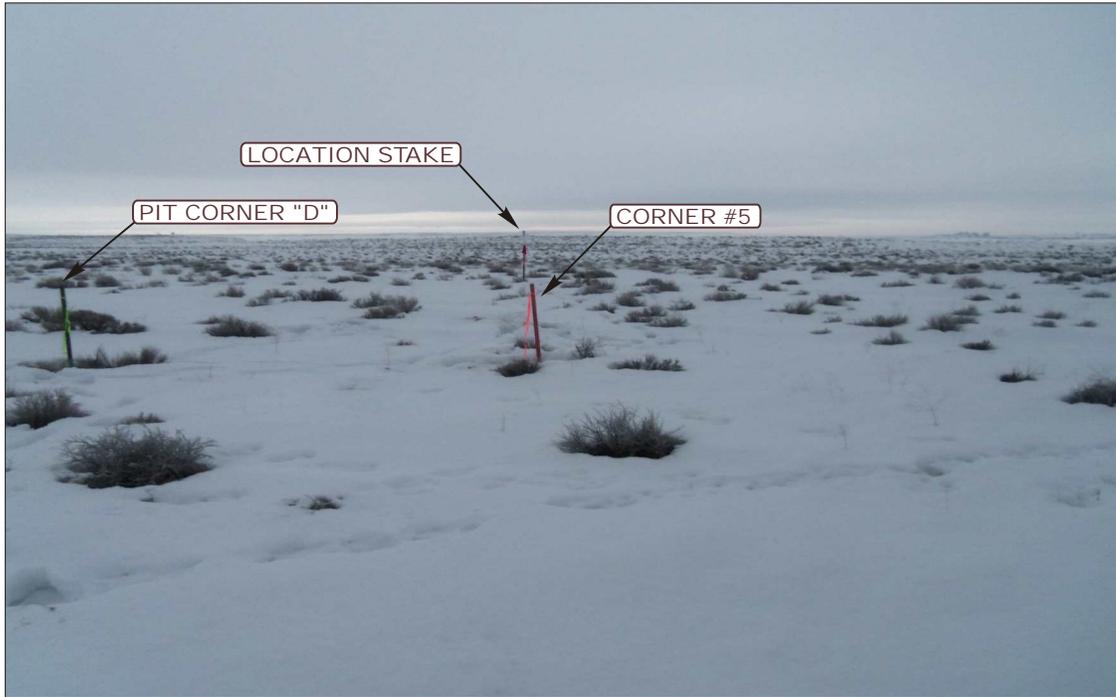


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: SOUTHEASTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: SOUTHWESTERLY



- Since 1964 -

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

LOCATION PHOTOS

07 30 12
MONTH DAY YEAR

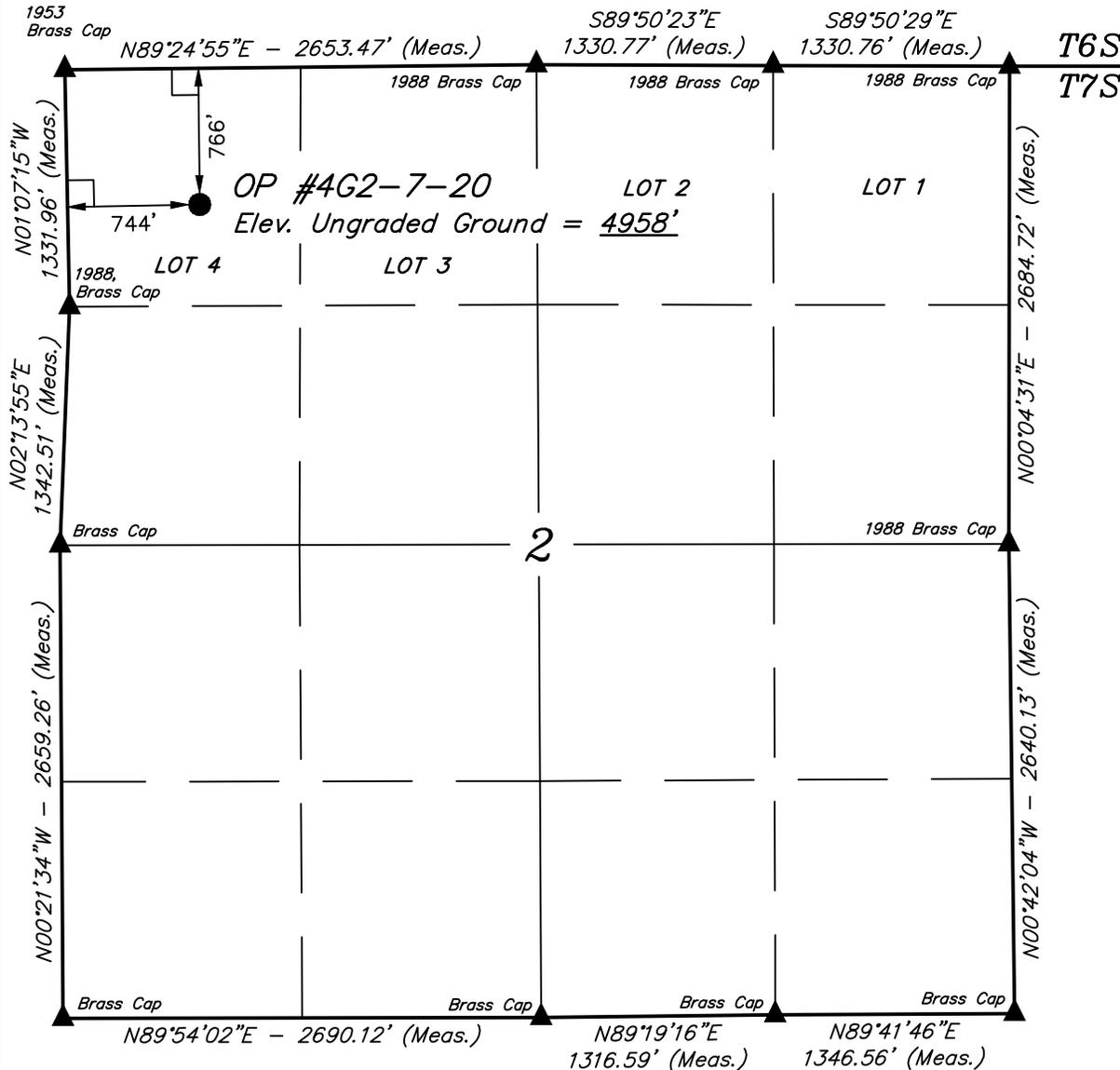
PHOTO

TAKEN BY: B.H. DRAWN BY: J.L.G. REV: 02-19-14 L.S.

T7S, R20E, S.L.B.&M.

QEP ENERGY COMPANY

Well location, OP #4G2-7-20, located as shown in Lot 4 of Section 2, T7S, R20E, S.L.B.&M., Uintah County, Utah.

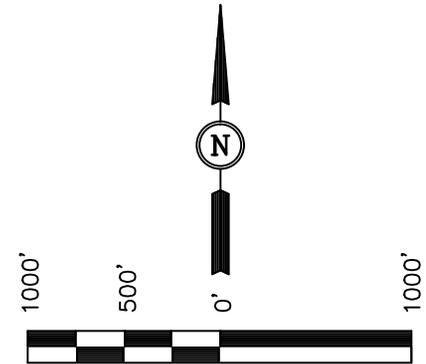


BASIS OF ELEVATION

BENCH MARK (38EAM) LOCATED IN THE SW 1/4 OF SECTION 9, T7S, R20E, S.L.B.&M. TAKEN FROM THE PELICAN LAKE, 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 4942 FEET.

BASIS OF BEARINGS

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



SCALE

CERTIFICATE

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

Robert KAV
 REGISTERED LAND SURVEYOR
 REGISTRATION NO. 161319
 STATE OF UTAH

REVISED: 02-19-14 S.S.

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

LEGEND:

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

NAD 83 (SURFACE LOCATION)	
LATITUDE =	40°14'43.47" (40.245408)
LONGITUDE =	109°38'36.54" (109.643483)
NAD 27 (SURFACE LOCATION)	
LATITUDE =	40°14'43.61" (40.245447)
LONGITUDE =	109°38'34.04" (109.642789)

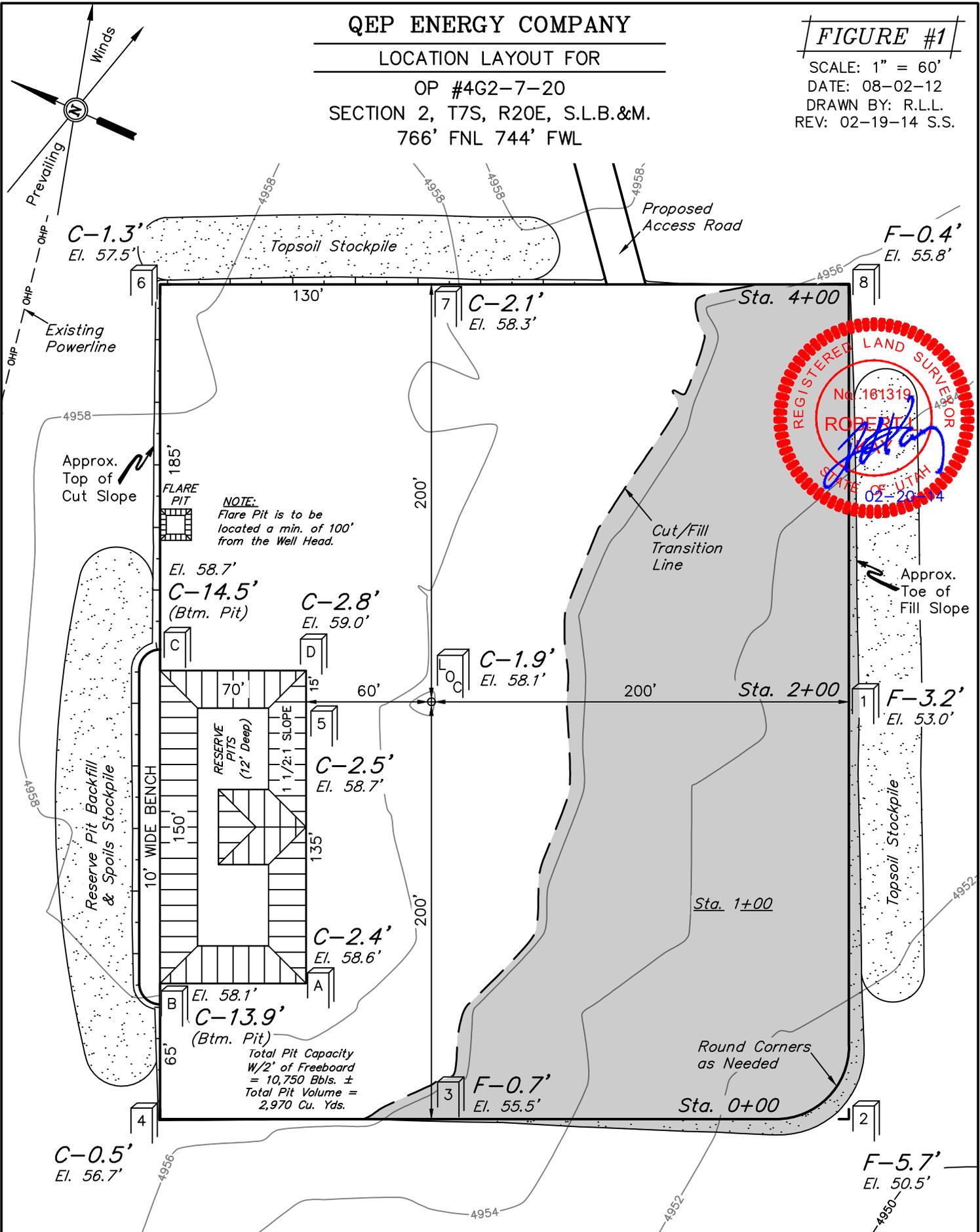
SCALE 1" = 1000'	DATE SURVEYED: 07-24-12	DATE DRAWN: 08-02-12
PARTY B.H. B.H. R.L.L.	REFERENCES G.L.O. PLAT	
WEATHER HOT	FILE QEP ENERGY COMPANY	

QEP ENERGY COMPANY

LOCATION LAYOUT FOR
 OP #4G2-7-20
 SECTION 2, T7S, R20E, S.L.B.&M.
 766' FNL 744' FWL

FIGURE #1

SCALE: 1" = 60'
 DATE: 08-02-12
 DRAWN BY: R.L.L.
 REV: 02-19-14 S.S.



Elev. Ungraded Ground At Loc. Stake = **4958.1'**
 FINISHED GRADE ELEV. AT LOC. STAKE = **4956.2'**

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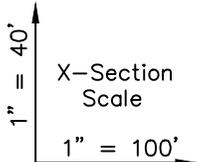
RECEIVED: Mar. 12, 2014

QEP ENERGY COMPANY

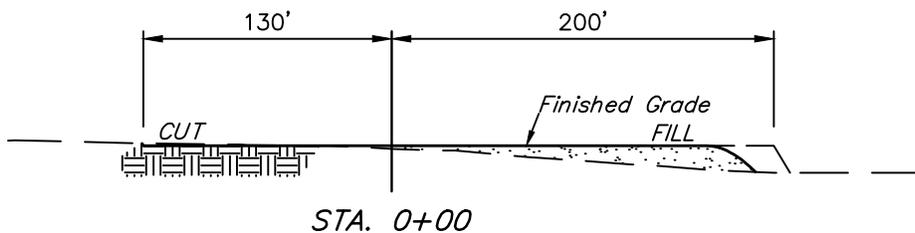
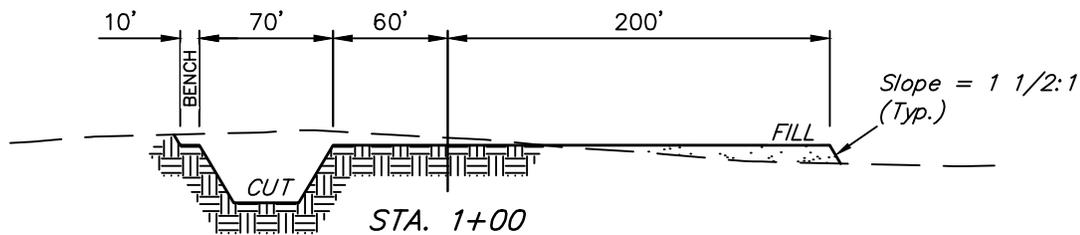
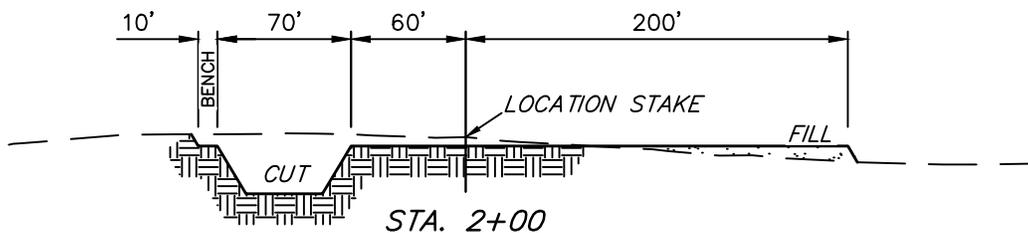
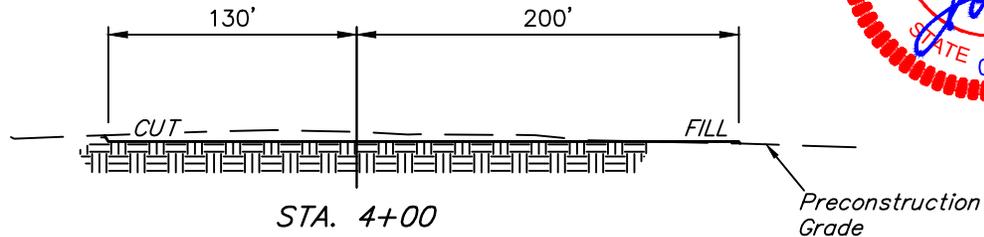
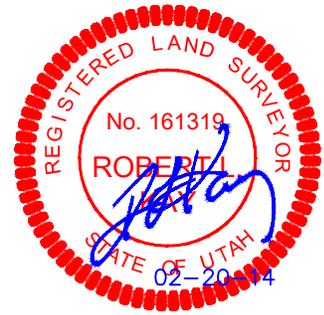
TYPICAL CROSS SECTIONS FOR

OP #4G2-7-20
SECTION 2, T7S, R20E, S.L.B.&M.
766' FNL 744' FWL

FIGURE #2



DATE: 08-02-12
DRAWN BY: R.L.L.
REV: 02-19-14 S.S.



NOTE:

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

APPROXIMATE ACREAGE

WELL SITE DISTURBANCE	= ± 3.710 ACRES
ACCESS ROAD DISTURBANCE	= ± 0.253 ACRES
PIPELINE DISTURBANCE	= ± 1.207 ACRES
TOTAL	= ± 5.170 ACRES

* NOTE:
FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

(6") Topsoil Stripping	= 2,560 Cu. Yds.
Remaining Location	= 6,730 Cu. Yds.
TOTAL CUT	= 9,290 CU. YDS.
FILL	= 5,240 CU. YDS.

EXCESS MATERIAL	= 4,050 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 4,050 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	= 0 Cu. Yds.

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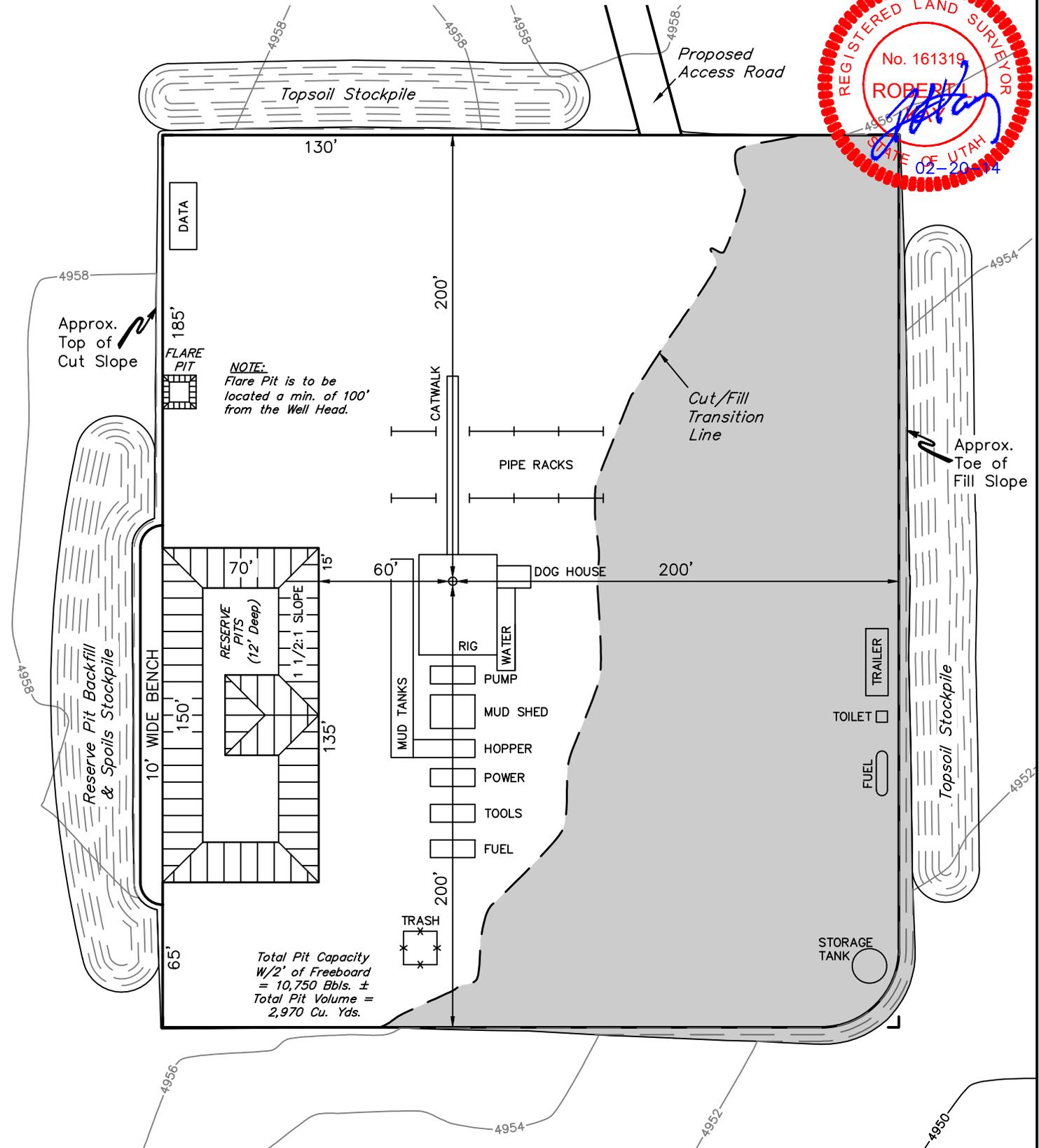
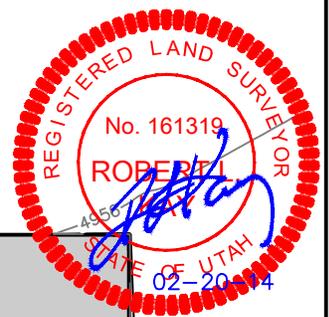
QEP ENERGY COMPANY

TYPICAL RIG LAYOUT FOR

OP #4G2-7-20
SECTION 2, T7S, R20E, S.L.B.&M.
766' FNL 744' FWL

FIGURE #3

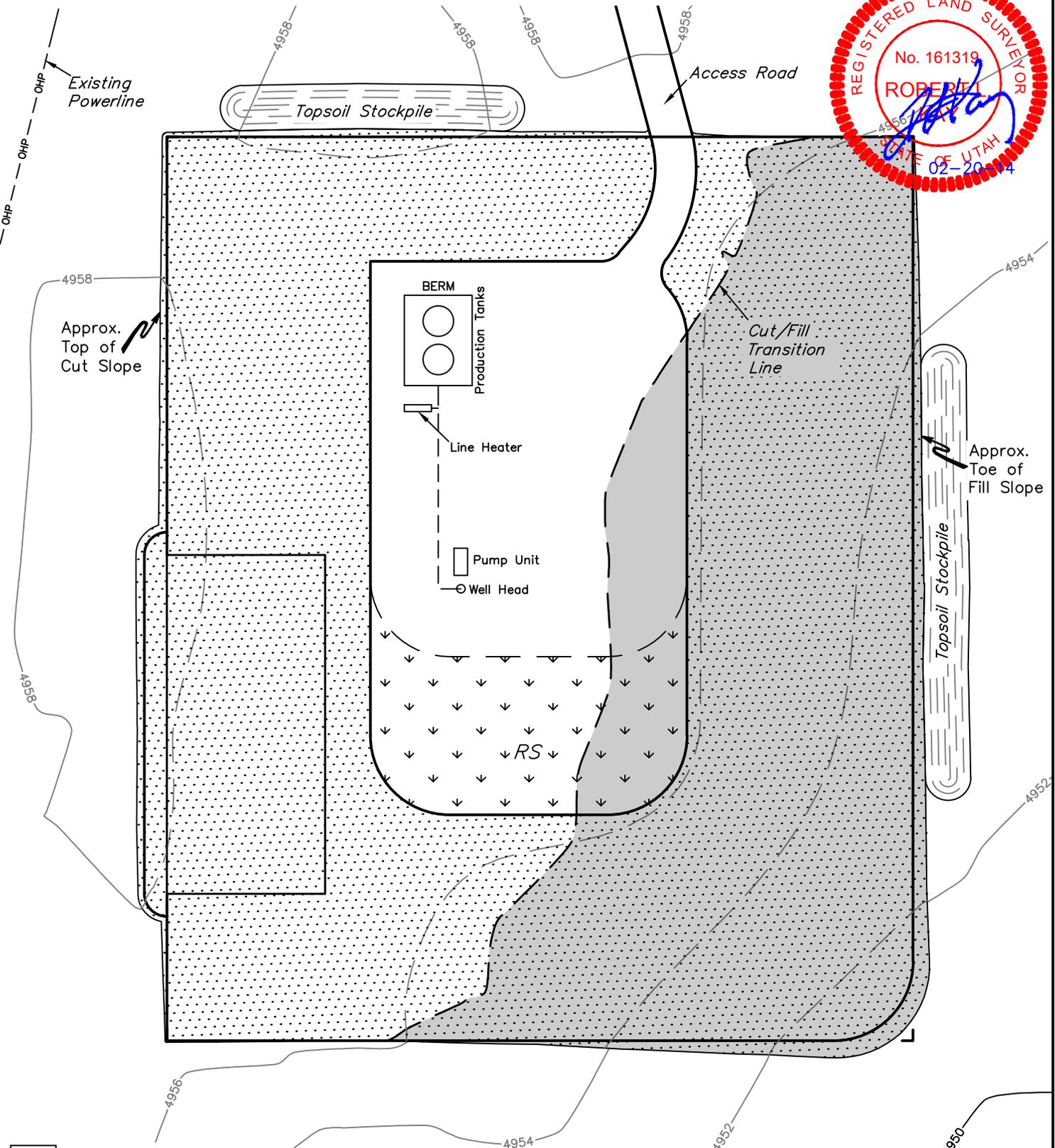
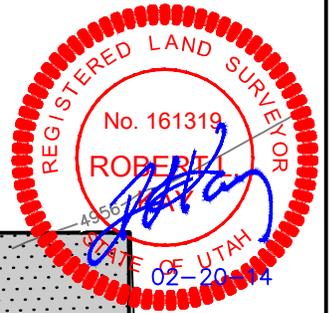
SCALE: 1" = 60'
DATE: 08-02-12
DRAWN BY: R.L.L.
REV: 02-19-14 S.S.



QEP ENERGY COMPANY
PRODUCTION FACILITY LAYOUT FOR
OP #4G2-7-20
SECTION 2, T7S, R20E, S.L.B.&M.
766' FNL 744' FWL

FIGURE #4

SCALE: 1" = 60'
DATE: 08-02-12
DRAWN BY: R.L.L.
REV: 02-19-14 S.S.



-  RESEED AREA
-  RECLAIMED AREA

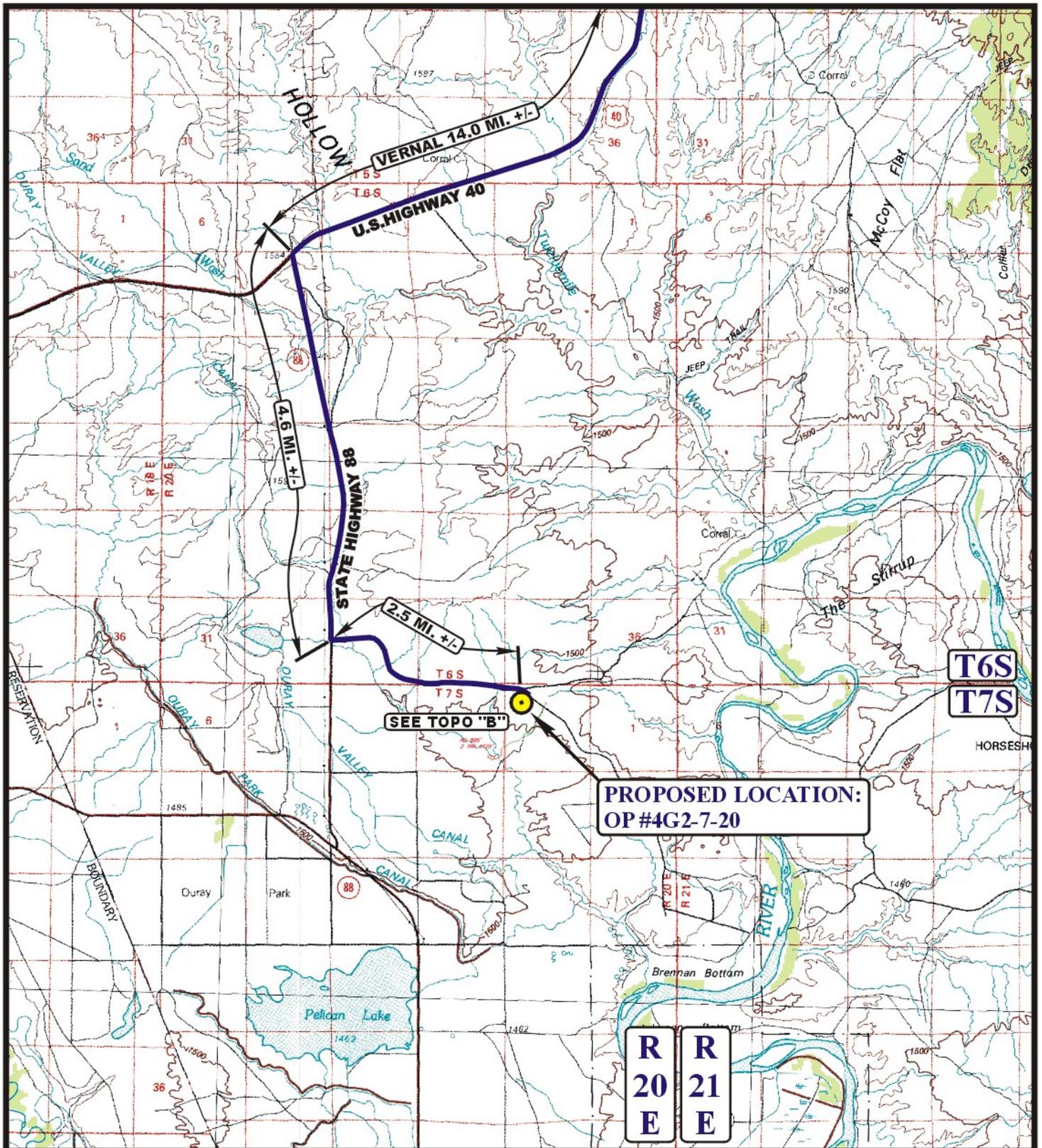
APPROXIMATE ACREAGE
UN-RECLAIMED = ± 0.796 ACRES

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QEP ENERGY COMPANY
OP #4G2-7-20
SECTION 2, T7S, R20E, S.L.B.&M.

PROCEED IN AN WESTERLY, THEN SOUTHWESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF HIGHWAY 40 AND STATE HIGHWAY 88 TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 4.6 MILES TO THE JUNCTION OF STATE HIGHWAY 88 AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 2.5 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN RIGHT AND PROCEED IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 0.1 MILES TO THE BEGINNING OF THE PROPOSED ACCESS ROAD TO THE SOUTHWEST; FOLLOW ROAD FLAGS IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 367' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 21.3 MILES.



LEGEND:

PROPOSED LOCATION

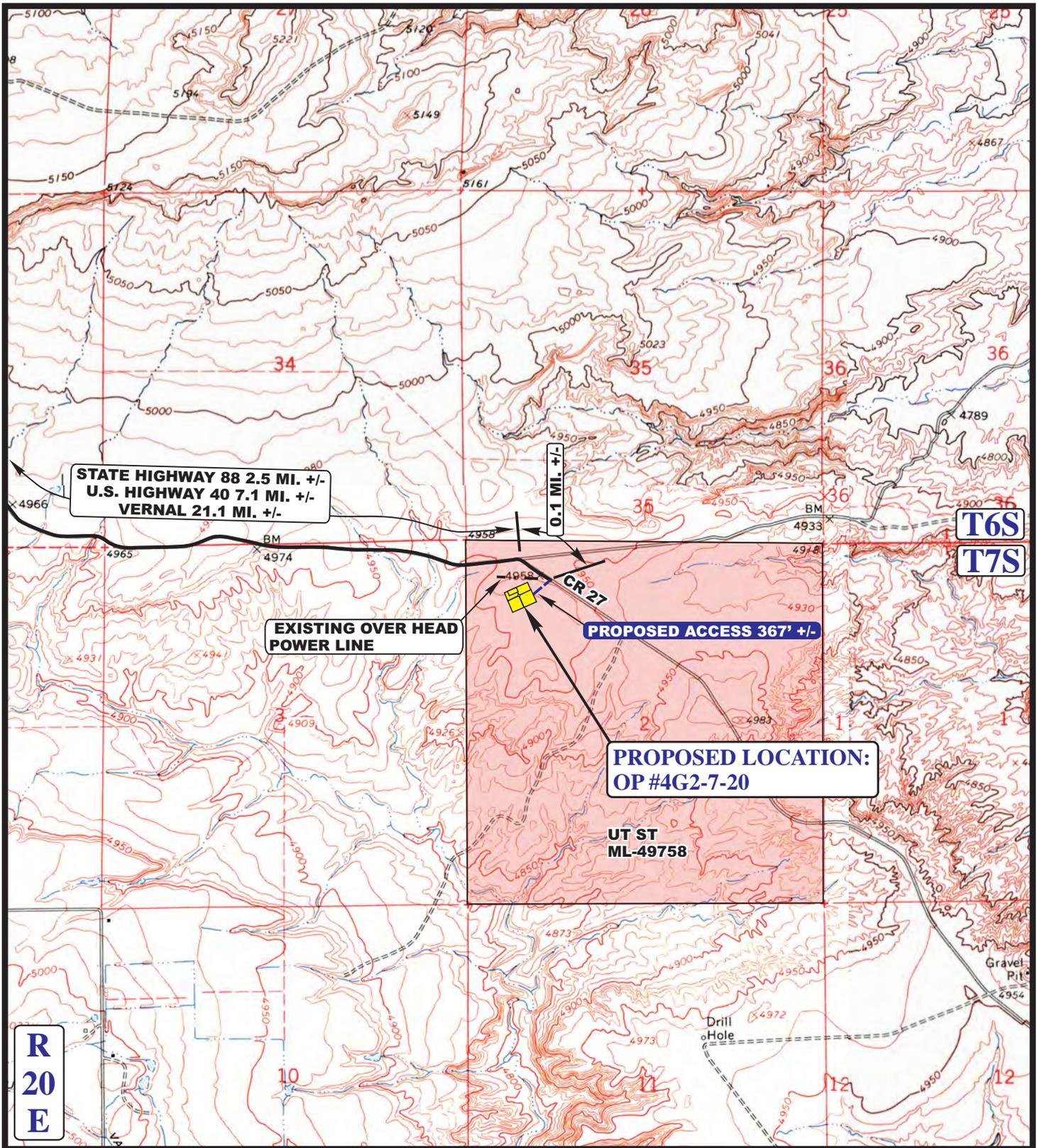


QEP ENERGY COMPANY

OP #4G2-7-20
SECTION 2, T7S, R20E, S.L.B.&M.
766' FNL 744' FWL

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

ACCESS ROAD	07	30	12	A
MAP	MONTH	DAY	YEAR	
SCALE: 1:100,000	DRAWN BY: J.L.G.		REVISED: 00-00-00	TOPO



STATE HIGHWAY 88 2.5 MI. +/-
 U.S. HIGHWAY 40 7.1 MI. +/-
 VERNAL 21.1 MI. +/-

0.1 MI. +/-

EXISTING OVER HEAD
 POWER LINE

PROPOSED ACCESS 367' +/-

PROPOSED LOCATION:
 OP #4G2-7-20

UT ST
 ML-49758

R
 20
 E

LEGEND:

- EXISTING ROAD
- - - - EXISTING POWER LINE
- - - - PROPOSED ACCESS ROAD



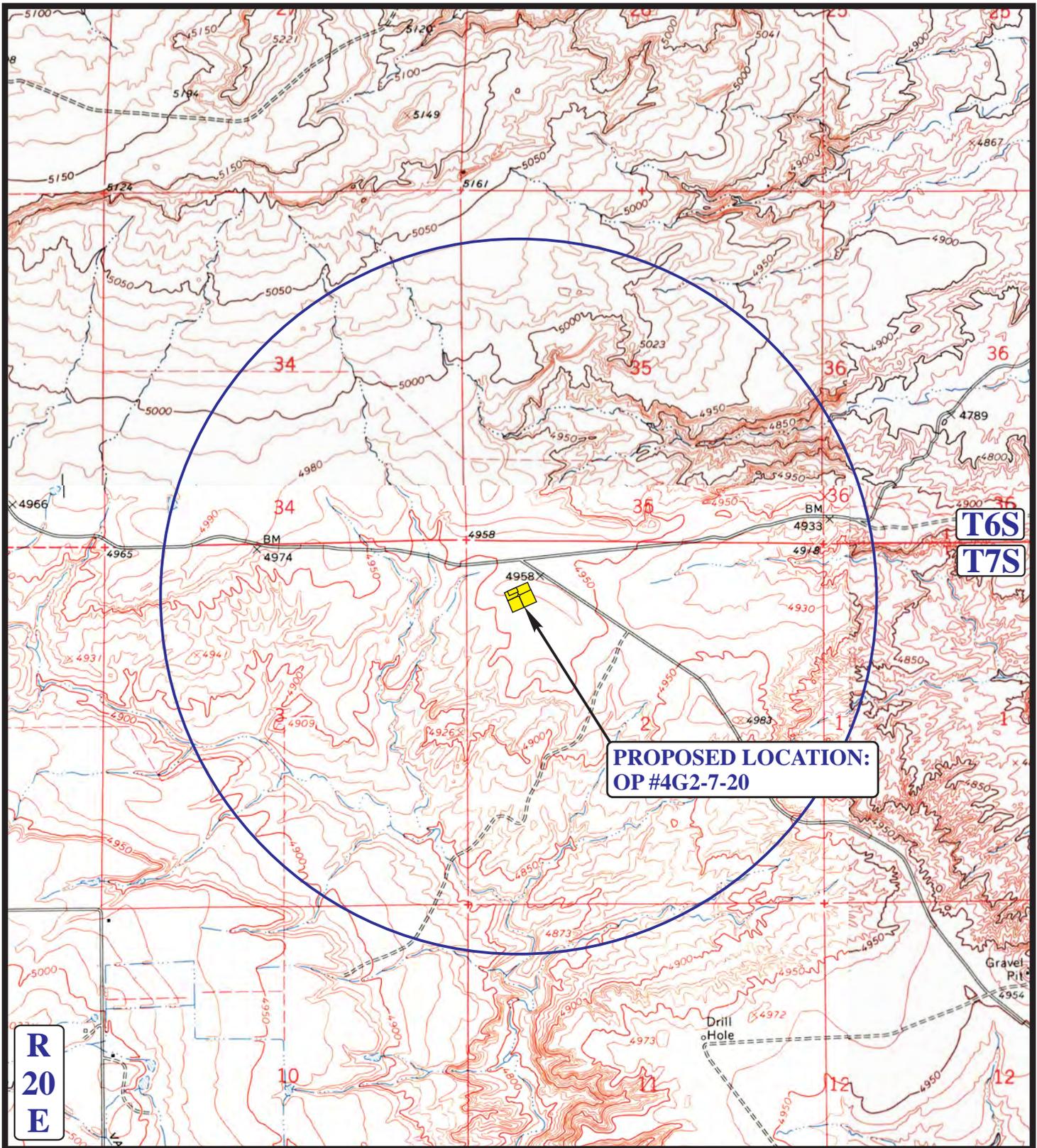
QEP ENERGY COMPANY

OP #4G2-7-20
 SECTION 2, T7S, R20E, S.L.B.&M.
 766' FNL 744' FWL



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

ACCESS ROAD MAP	07	30	12	B TOPO
	MONTH	DAY	YEAR	
SCALE: 1" = 2000'		DRAWN BY: J.L.G.		REV: 02-19-14 L.S.



**PROPOSED LOCATION:
OP #4G2-7-20**

**R
20
E**

LEGEND:

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



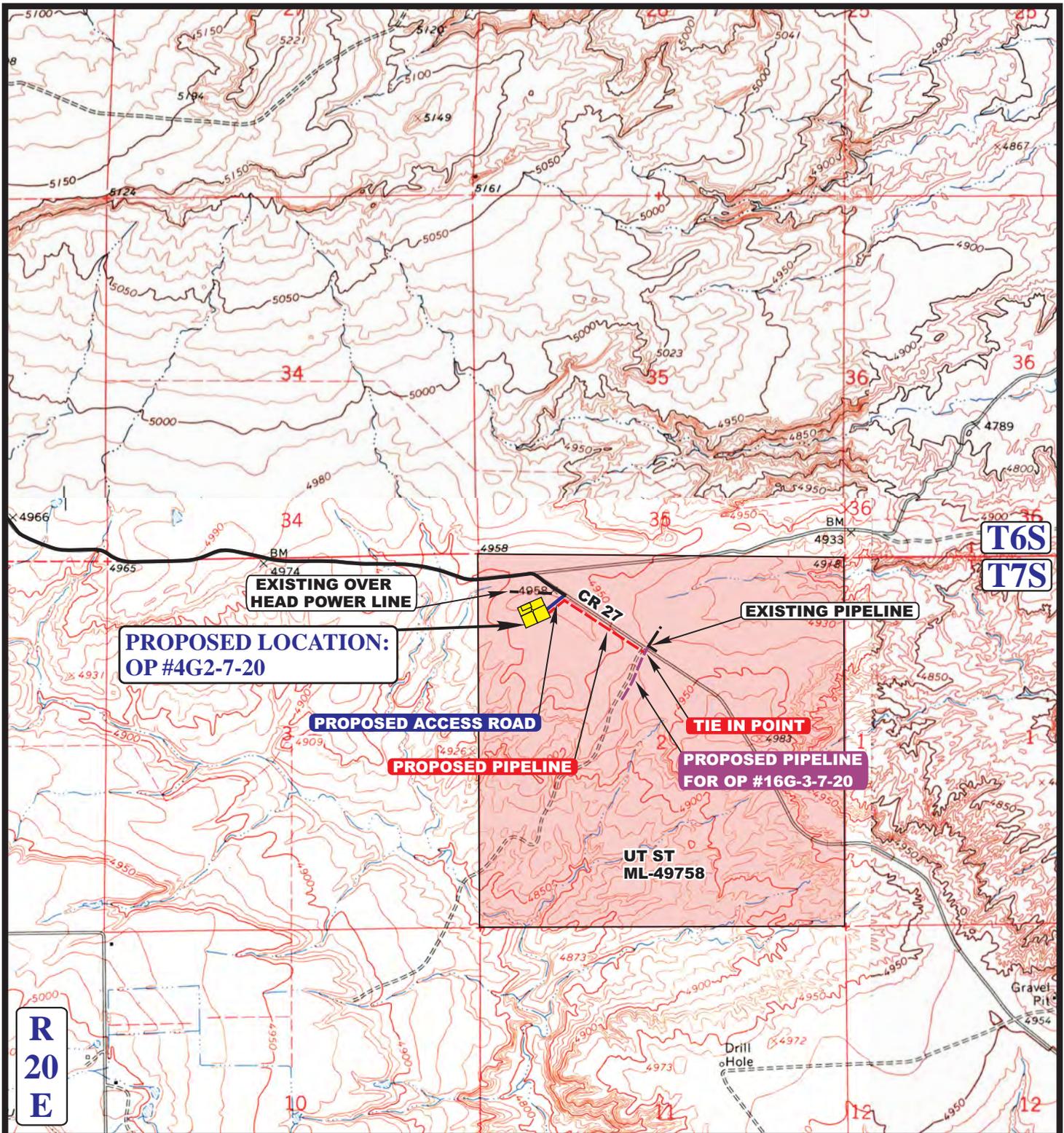
QEP ENERGY COMPANY

**OP #4G2-7-20
SECTION 2, T7S, R20E, S.L.B.&M.
766' FNL 744' FWL**



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

TOPOGRAPHIC MAP	07	30	12	C TOPO
	MONTH	DAY	YEAR	
SCALE: 1" = 2000'		DRAWN BY: J.L.G.		REV: 02-19-14 L.S.



APPROXIMATE TOTAL PIPELINE DISTANCE = 1,753' +/-

LEGEND:

- EXISTING PIPELINE
- - - EXISTING POWER LINE
- - - PROPOSED PIPELINE
- PROPOSED ACCESS

QEP ENERGY COMPANY

OP #4G2-7-20
SECTION 2, T7S, R20E, S.L.B.&M.
766' FNL 744' FWL



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



TOPOGRAPHIC
MAP
 SCALE: 1" = 2000' DRAWN BY: J.L.G.

07	30	12
MONTH	DAY	YEAR

REV: 02-19-14 L.S.



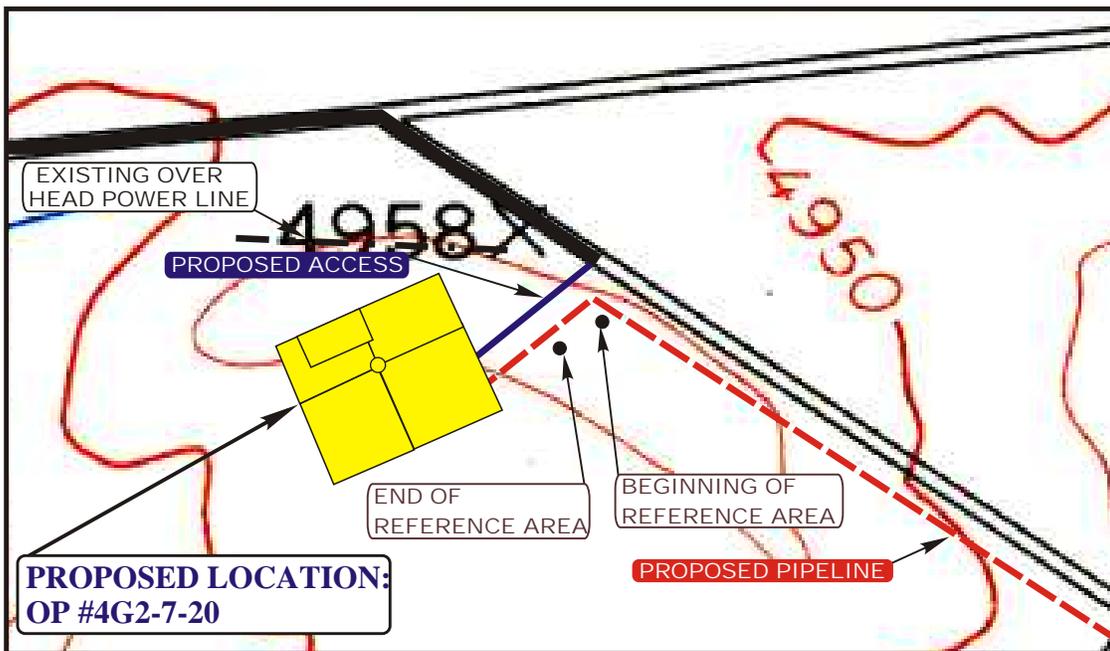
QEP ENERGY COMPANY
REFERENCE MAP: AREA OF VEGETATION
OP #4G2-7-20
LOCATED IN UINTAH COUNTY, UTAH
SECTION 2, T7S, R20E, S.L.B.&M.



NOTE:

BEGINNING OF REFERENCE AREA
NAD 83 Z12 UTM NORTHING: 14619105.637
NAD 83 Z12 UTM EASTING: 2019450.512
(NAD 83) LATITUDE: 40.245694
(NAD 83) LONGITUDE: -109.641694

END OF REFERENCE AREA
NAD 83 Z12 UTM NORTHING: 14619043.516
NAD 83 Z12 UTM EASTING: 2019358.422
(NAD 83) LATITUDE: 40.245528
(NAD 83) LONGITUDE: -109.642028



- Since 1964 -

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

SCALE: 1" = 400'	05	08	13	REF.
	MONTH	DAY	YEAR	
TAKEN BY: J.C.	DRAWN BY: S.O.	REV: 02-19-14 L.S.		

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5.LEASE DESIGNATION AND SERIAL NUMBER: ML49758
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:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: OP 4G-2-7-20
2. NAME OF OPERATOR: QEP ENERGY COMPANY	9. API NUMBER: 43047536410000
3. ADDRESS OF OPERATOR: 11002 East 17500 South , Vernal, Ut, 84078	PHONE NUMBER: 303 308-3068 Ext
9. FIELD and POOL or WILDCAT: WILDCAT	4. LOCATION OF WELL FOOTAGES AT SURFACE: 0766 FNL 0744 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 02 Township: 07.0S Range: 20.0E 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: 5/15/2014	<input type="checkbox"/> ACIDIZE	<input checked="" 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 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 REQUESTS TO CHANGE THE DRILLING PLAN FOR THE OP 4G-2-7-20. CHANGES TO THE DRILLING PLAN ARE: -RUN 9 5/8" CASING TO 1,000'. THE CASING IN THE ORIGINAL APD WAS APPROVED WITH A DRILLING PLAN STATING 8 5/8" CASING. PLEASE SEE ATTACHED: DRILLING PLAN

Approved by the Utah Division of Oil, Gas and Mining
 May 15, 2014

Date: _____

By: *Derek Duff*

NAME (PLEASE PRINT) Valyn Davis	PHONE NUMBER 435 781-4369	TITLE Regulatory Affairs Analyst
SIGNATURE N/A	DATE 5/15/2014	

QEP Energy
OP 4G2-7-20
Vertical Well
Summarized Procedure

1. MIRU air rig.
2. Drill 12 ¼" surface hole to 1,000', run 9 5/8", 36#, J-55, LTC, cement to surface.
3. RD air rig, move off location.
4. MIRU drilling rig.
5. NU rig's 3,000 WP rated BOP. Test BOP's and surface casing.
6. PU straight hole BHA, drill out surface casing and 10' of new formation, perform FIT.
7. Drill 7 7/8" hole to ~9,000, TD.
8. Mud system will be water based. Mud weights from 8.6 – 9.5 ppg, Max 10.0 ppg.
9. TOO, LDDP.
10. Log hole.
11. PU and run 5-1/2", 17#, N-80 LTC casing to intermediate TD. Cement same.
12. RDMOL

ONSHORE OIL & GAS ORDER NO. 1
 QEP ENERGY COMPANY
 OP 4G2-7-20

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</u>
Green River	3,000'
X Marker	6,571'
G1 Lime	7,269'
H4a	7,495'
Wasatch	7,700'
TD	9,000'

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

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

<u>Substance</u>	<u>Formation</u>	<u>Depth,</u>
Oil/Gas	X Marker	6,571'
Oil/Gas	G1	7,269'
Oil/Gas	H4a	7,495'
Oil/Gas	Wasatch	7,700'

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

All water shows and water-bearing sands will be reported to the BLM in Vernal, Utah. Copies of State of Utah form OGC-8-X are acceptable. If flows are detected, samples will be submitted to the BLM along with any water analyses conducted. Fresh water will be obtained from Wonsits Valley water right 49-251 (which was filed on May 7, 1964) or Red Wash water right # 49-2153 (which was filed on March 25, 1960). It was determined by the Fish and Wildlife Service that any water right number filed before 1989 is not depleting to the Upper Colorado River System, to supply fresh water for drilling purposes. All water resulting from drilling operations will be disposed of at Red Wash Central Battery Disposal site; SWSE, Section 27, T7S, R23E or Wonsits Valley Disposal Site; SWNW, Section 12, T8S, R21E.

ONSHORE OIL & GAS ORDER NO. 1
 QEP ENERGY COMPANY
 OP 4G2-7-20

3. Operator's Specification for Pressure Control Equipment

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

4. Casing Program

Hole Size	Casing Size	Top, MD	Bottom, MD	Weight, lb/ft	Grade	Thread	Condition	MW
17 1/2"	14"	sfc	40'	Steel	Cond.	None	Used	Air
12 1/4"	9 5/8"	sfc	1,000'	36.0	J-55	STC	New	Air
7 7/8"	5 1/2"	sfc	9,000'	17.0	N-80	LTC	New	8-9 ppg

Casing Strengths:				Collapse	Burst	Tensile (minimum)
9-5/8"	36.0 lb.	J-55	STC	2,020 psi	3,520 psi	394,000 lb.
5-1/2"	17.0 lb.	N-80	LTC	6,290 psi	7,740 psi	348,000 lb.

Please refer to the attached wellbore diagram procedure for further details.

ONSHORE OIL & GAS ORDER NO. 1

QEP ENERGY COMPANY

OP 4G2-7-20

5. **Cementing Program**

16" Conductor:

Cement to surface with construction cement.

9-5/8" Surface Casing: SFC – 1,000' (MD)

Tail Slurry: SFC – 1,000'. 690 sks (792 cu ft) Class G + 2% CaCl + 0.25 lb/sk Flocele. Slurry wt: 15.8 ppg, Slurry yield: 1.15 ft³/sk, Slurry volume: 12-1/4" to TD with 150% excess.

5-1/2" Production Casing: sfc – 9,000' (MD)

Lead: Sfc – 6,000' 528 sks (1,552 cu ft) Halliburton ECONOCEM V4+ 3 LBM/SK Kol-Seal (LCM) + 0.1% HR-800 (Retarder). Slurry Weight 11 lb/gal, Slurry Yield 2.94 ft³/sk, with 50% Excess

Tail Slurry: 6,000' – 9,000'. 523 sks (780 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.

6. **Auxilliary Equipment**

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

Drilling the surface hole with air:

A variance from 43 CFR 3160 Onshore Oil and Gas Order #2, Section III Requirements, subsection E. Special Drilling Operations is requested for the specific operation of drilling and setting surface casing on the subject well with a truck mounted air rig. The variance from the following requirements of Order #2 is requested because surface casing depth for this well is 480 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

ONSHORE OIL & GAS ORDER NO. 1
QEP ENERGY COMPANY
OP 4G2-7-20

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

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

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

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

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

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

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

- a. Cores – None Anticipated
- b. DST – None Anticipated

ONSHORE OIL & GAS ORDER NO. 1

QEP ENERGY COMPANY

OP 4G2-7-20

c. Logging:

i. Mud logging from casing exit to TD

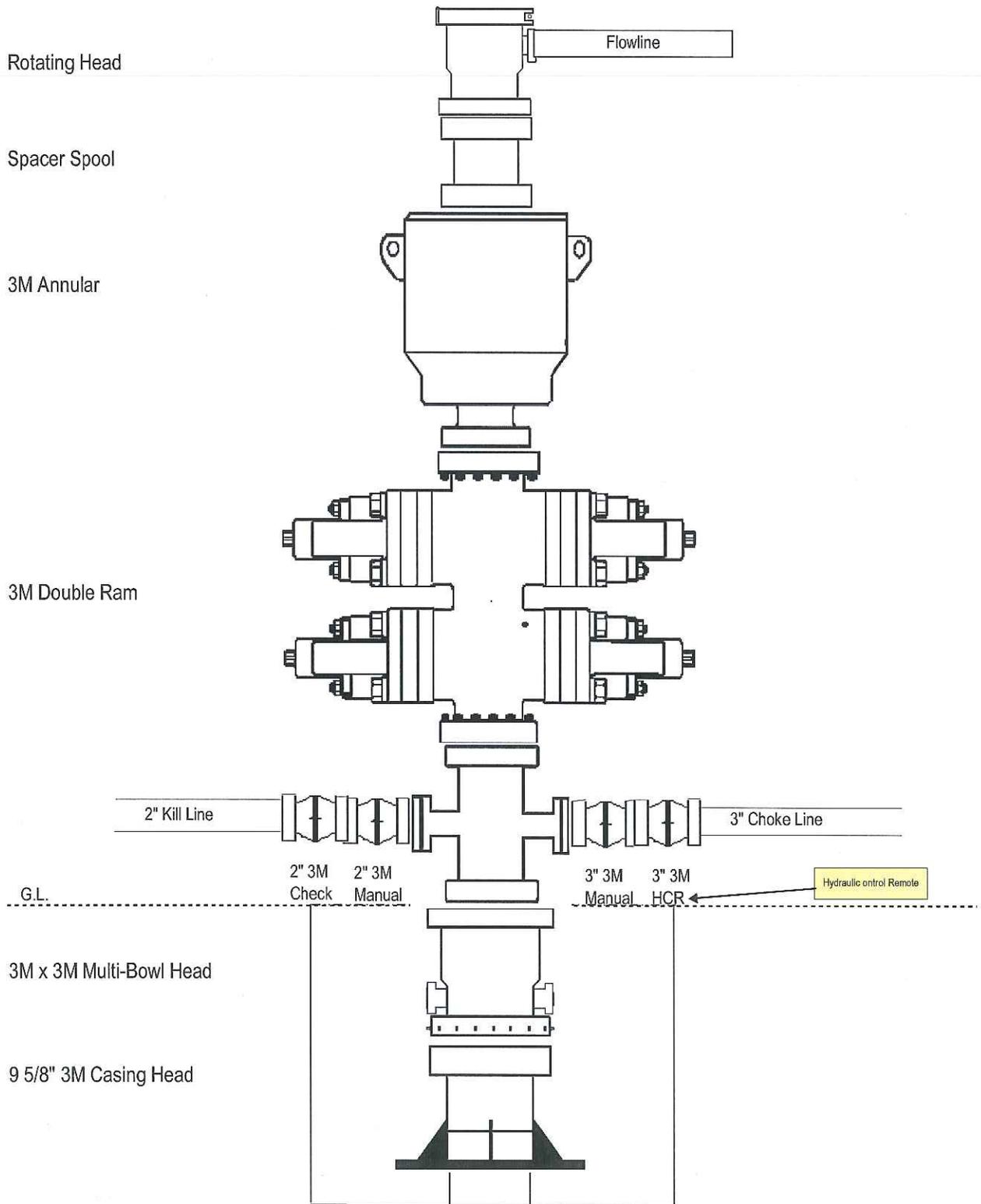
ii. Open Hole Logs: Triple Combo in Pilot Hole (GR-SP-CAL-DN-PE)

d. Formation and completion interval: H4a Lime interval, final determination of completion will be made by analysis of mud logging data. Stimulation: stimulation will be designed for the particular area of interest encountered.

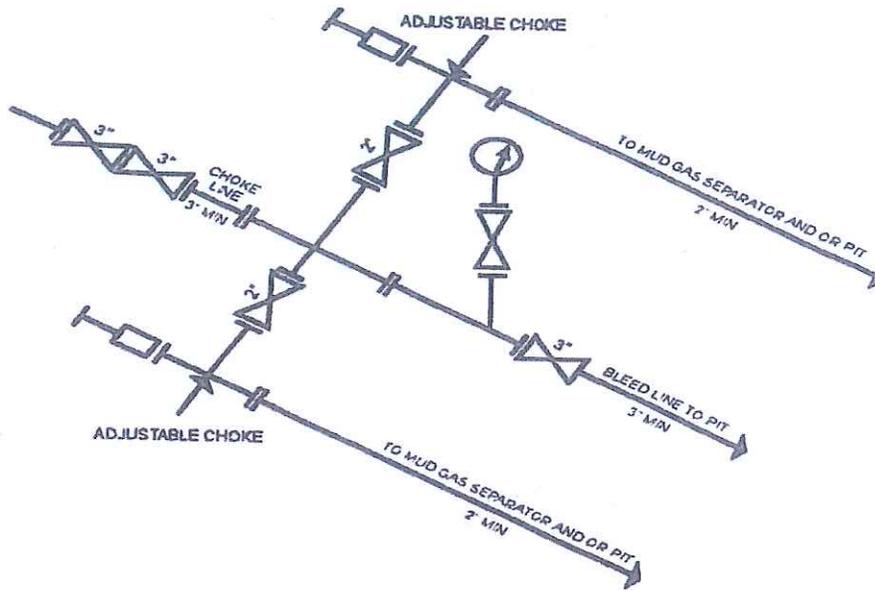
8. Anticipated Abnormal Pressures and Temperatures, Other Potential Hazards

No abnormal temperatures or pressures are anticipated. No H₂S has been encountered or is known to exist from previous wells drilled to similar depths in the general area. Maximum anticipated bottom-hole pressure equals approximately 3,952 psi. Maximum anticipated bottom hole temperature is approximately 150°F.

ONSHORE OIL & GAS ORDER NO. 1
QEP ENERGY COMPANY
OP 4G2-7-20
3M BOP STACK



ONSHORE OIL & GAS ORDER NO. 1
QEP ENERGY COMPANY
OP 4G2-7-20



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

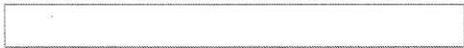
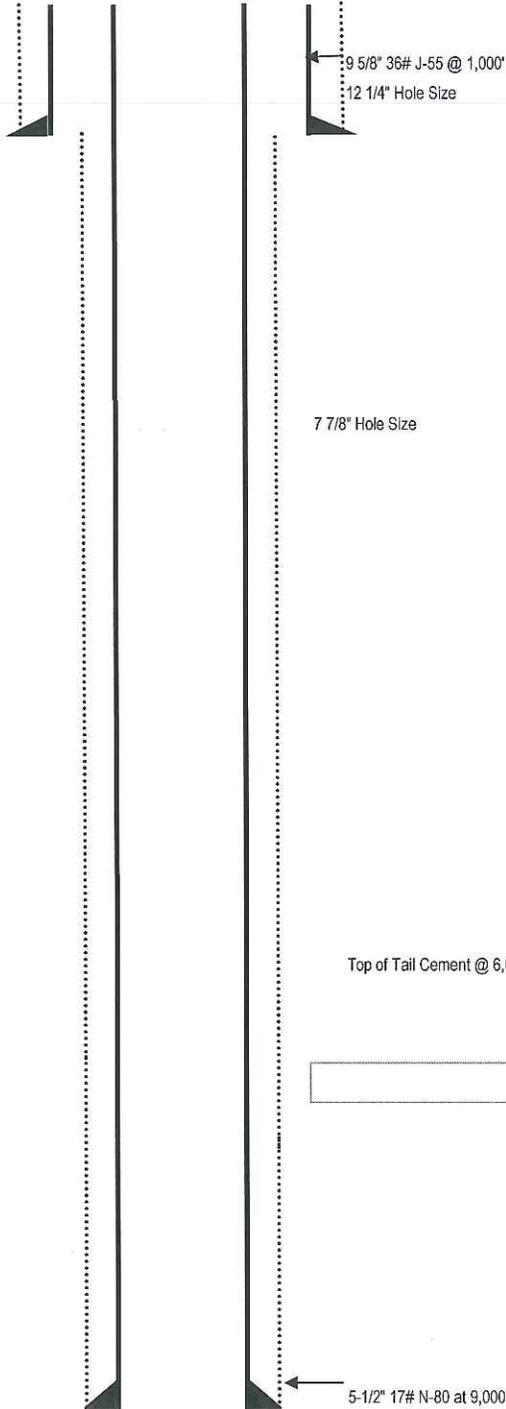
OP 4G2-7-20

Updated 05-14-2014 CRA

Proposed WBD
Uinta Basin
Section 2, T7S, R20E, Uintah County

KB 4,972'
GL 4,956'

NOTE: NOT TO SCALE



STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: ML49758
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:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: OP 4G-2-7-20	
2. NAME OF OPERATOR: QEP ENERGY COMPANY	9. API NUMBER: 43047536410000	
3. ADDRESS OF OPERATOR: 11002 East 17500 South , Vernal, Ut, 84078	PHONE NUMBER: 303 308-3068 Ext	9. FIELD and POOL or WILDCAT: WILDCAT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0766 FNL 0744 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 02 Township: 07.0S Range: 20.0E 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"/> SUBSEQUENT REPORT Date of Work Completion: <input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 6/11/2014 <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> OTHER	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. <p style="text-align: center;">ON 6/11/2014- QEP ENERGY COMPANY SET 40' OF 14" CONDUCTOR PIPE AND CEMENTED WITH READY MIX.</p> <div style="text-align: right; margin-top: 20px;"> <p>Accepted by the Utah Division of Oil, Gas and Mining</p> <p>FOR RECORD ONLY</p> <p>June 16, 2014</p> </div>		
NAME (PLEASE PRINT) Valyn Davis	PHONE NUMBER 435 781-4369	TITLE Regulatory Affairs Analyst
SIGNATURE N/A	DATE 6/16/2014	

BLM - Vernal Field Office - Notification Form

Operator QEP ENERGY Rig Name/# Pete Martin 1
Submitted By Dave Harding Phone Number 435 828-0396
Well Name/Number OP 4G-2-7-20
Qtr/Qtr NW/NW Section 2 Township 7S Range 20E
Lease Serial Number ML49758
API Number 43-047-53641

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

Date/Time 6/11/2014 2:00 AM PM

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

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

Date/Time _____ AM PM

BOPE

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

Date/Time _____ AM PM

Remarks Pete Martin Drlg will set 40 ft of 14" conductor

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: ML49758
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL Oil Well		7. UNIT or CA AGREEMENT NAME: OURAY PARK II
2. NAME OF OPERATOR: QEP ENERGY COMPANY		8. WELL NAME and NUMBER: OP 4G-2-7-20
3. ADDRESS OF OPERATOR: 11002 East 17500 South , Vernal, Ut, 84078		9. API NUMBER: 43047536410000
PHONE NUMBER: 303 308-3068 Ext		9. FIELD and POOL or WILDCAT: WILDCAT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0766 FNL 0744 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 02 Township: 07.0S Range: 20.0E 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: 8/7/2014	<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
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	<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 AUGUST 7, 2014 @ 1:30 P.M.

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

NAME (PLEASE PRINT) Valyn Davis	PHONE NUMBER 435 781-4369	TITLE Regulatory Affairs Analyst
SIGNATURE N/A	DATE 8/11/2014	

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 checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: ML49758
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 OURAY PARK II
3. ADDRESS OF OPERATOR: 11002 E. 17500 S. CITY VERNAL STATE UT ZIP 84078		8. WELL NAME and NUMBER: OP 4G-2-7-20
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 766' FNL, 744' FWL AT TOP PRODUCING INTERVAL REPORTED BELOW: 766' FNL, 744' FWL AT TOTAL DEPTH: 766' FNL, 744' FWL		9. API NUMBER: 4304753641
14. DATE SPUDDED: 6/11/2014		10. FIELD AND POOL, OR WILDCAT WILDCAT
15. DATE T.D. REACHED: 6/28/2014		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNW 2 7S 20E
16. DATE COMPLETED: 8/7/2014		12. COUNTY UINTAH
ABANDONED <input type="checkbox"/> READY TO PRODUCE <input checked="" type="checkbox"/>		13. STATE UTAH
17. ELEVATIONS (DF, RKB, RT, GL): 4,958' GL		

18. TOTAL DEPTH: MD 8,975 TVD 8,974	19. PLUG BACK T.D.: MD TVD	20. IF MULTIPLE COMPLETIONS, HOW MANY? *	21. DEPTH BRIDGE MD PLUG SET: TVD
--	-------------------------------	--	--------------------------------------

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

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

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

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
12.25	9.625 J55	36	0	1,035		390	143	160	
7.875	5.5 P114	17	0	8,962		1,225	419		

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2.875	7,529							

26. PRODUCING INTERVALS					27. PERFORATION RECORD				
FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS	
(A) GREEN RIVER	6,227	7,492			6,227 7,492	.42	258	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
6,227 - 7,492	11,995 BBLs DELTA 140 AND FRESHWATER; 223,340 LBS 20/40 SAND

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

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 8/7/2014		TEST DATE: 8/13/2014		HOURS TESTED: 24		TEST PRODUCTION RATES: →		OIL - BBL: 278	GAS - MCF: 12	WATER - BBL: 195	PROD. METHOD: EPU
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL: 278	GAS - MCF: 12	WATER - BBL: 195	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	3,681
				MAHOGANY MARKER	5,450
				WASATCH	7,551

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 8/18/2014

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



QEP Energy Company

Daily Activity and Cost Summary

Well Name: OP 4G-2-7-20

API 43-047-53641	Surface Legal Location S2-T7S-R20E	Field Name WILDCAT	County UINTAH	State UTAH	Well Configuration Type Vertical
Unique Well ID UT100436	Ground Elevation (ft) 4,956.2	Casing Flange Elevation (ft) 4,956.20	Current KB to GL (ft) 22.60	KB to CF (ft) 22.60	Spud Date 6/11/2014 08:00
Job Category DRILLING	Primary Job Type AFE - DRL-DR (Drilling)		Secondary Job Type		Objective
Start Date 6/17/2014			Job End Date 7/3/2014		

Purpose

Summary

Contractor SST Energy	RIG SST 8	Rig Type TOP DRIVE
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RPT #	Start Date	Summary
1	6/17/2014	PJSM. RIG DOWN & MOVE RIG FROM ANADARKO LOCATION TO OP4G-2-7-20. SET MATS & SET IN BACK YARD.
2	6/18/2014	PJSM. RIG DOWN & MOVE RIG. RIG UP. SET & STACK SUBS. INSTALL SPREADERS. SET DWKS. SET GAS BUSTER & FLOW LINE. PIN DERRICK TOGETHER.
3	6/19/2014	PJSM. RIG UP. PREP DERRICK & SET ON FLOOR. SET DOGHOUSE & VFD HOUSE. PREP DERRICK. PJSM & RAISE. UNBRIDLE. RAISE TOP DRIVE. GENERAL RIG UP. FILL MUD TANKS.
4	6/20/2014	GENERAL RIG UP BY HAND. INSPECT RIG. WELD ON CONDUCTOR. ATTACH FLOW LINE & TURN BUCKLES. P/U 8" TOOLS. DRILL SURFACE 62-128. TRIP UP. CHANGE OUT MWD, TRIP IN. DRILL SURFACE 128 - 430.
5	6/21/2014	DRILL & SURVEY 430-1035. CIRCULATE. PUMP SWEEP. SHORT TRIP TO DC'S. CIRCULATE. TRIP OUT. L/D 8" TOOLS. PJSM. RIG UP & RUN SURFACE CASING. WASH 30 FT TO BTM. CIRCULATE CASING. PJSM. CEMENT CASING. WAIT ON CEMENT. CUT OFF & WELD ON CASING HEAD.
6	6/22/2014	NIPPLE UP. TEST BOPE. P/U 7 7/8 TOOLS & SCRIBE. TRIP IN. DRILL SHOE TRACK TO 1040. FIT TO 10.5# EMW. DRILL & SURVEY 1040-2314.
7	6/23/2014	DRILL & SURVEY 2314-4409. SERVICE RIG. START LIGHT MUD UP @ 3500.
8	6/24/2014	DRILL & SURVEY 4409- 5880. SERVICE RIG. REPLACE HYDRAULIC HOSE ON TOP DRIVE.
9	6/25/2014	DRILL & SURVEY 5880 to 7250. SERVICE RIG. .
10	6/26/2014	DRILL & SURVEY 7250 TO 8006. SERVICE RIG. .
11	6/27/2014	DIRECTIONAL DRILL, RIG SERVICE
12	6/28/2014	DIRECTIONAL DRILL, PUMP HI VIS SWEEP, SHORT TRIP 84 STDS. TO CASING SHOE, RIG SERVICE, TRIP IN HOLE, CIRCULATE, TRIP OUT FOR LOGS.
13	6/29/2014	TRIP OUT FOR LOGS, PJSM AND RIG UP LOGGERS, LOG
14	6/30/2014	TRIP OUT FOR LOGS, TRY TO LOG, TRIP IN, CIRCULATE 2 HI VIS SWEEPS, DROP RABBIT, TRIP OUT AND RETRIEVE RABBIT FROM ON TOP OF JARS, LAY DOWN JARS, MAKE UP THRU BIT TOOLS.
15	7/1/2014	TRIP IN FOR THRU BIT LOGS, CIRCULATE AND PUMP SWEEPS, DEPLOY LOGGING TOOL, PULL WIRE LINE AND TRIP OUT AT 40 FT. A MIN. RD LOGGING TOOLS, TRIP IN, CIRCULATE.
16	7/2/2014	CIRCULATE AND PUMP SWEEPS, LAY DOWN DRILL PIPE, RIG UP CASERS, RUN 5.5 CASING, CIRC, CEMENT
17	7/3/2014	NIPPLE DOWN BOP AND SET AND TEST CASING PACK OFF, CLEAN MUD TANKS AND RIG DOWN

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9	
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: ML49758	
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: OURAY PARK II	
1. TYPE OF WELL Oil Well		8. WELL NAME and NUMBER: OP 4G-2-7-20	
2. NAME OF OPERATOR: QEP ENERGY COMPANY		9. API NUMBER: 43047536410000	
3. ADDRESS OF OPERATOR: 11002 East 17500 South , Vernal, Ut, 84078	PHONE NUMBER: 303 595-5919 Ext	9. FIELD and POOL or WILDCAT: BRENNAN BOTTOM	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0766 FNL 0744 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 02 Township: 07.0S Range: 20.0E 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"/> 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 checked="" 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. INTERIM RECLAMATION WAS COMPLETED ON 02/28/2015. THE LOCATION WAS DOWNSIZED AND RECONTOURED, TOPSOIL WAS SPREAD, AND SEED WAS BROADCAST ONTO A ROUGH SURFACE. THE SEED MIX USED WAS: Grass Bottlebrush squirreltail Elymus elymoides VNS 2 PLS LBS Grass Western wheatgrass Pascopyrum smithii Rosana 2 PLS LBS Grass Thickspike wheatgrass Elymus lanceolatus Bannock 3 PLS LBS Grass Galleta curly grass Pleuraphis jamesii Viva 1PLS LBS Grass Indian ricegrass Achnatherum hymenoides Rimrock 4 PLS LBS Grass Needle & thread grass Hesperostipa comata ssp. Comata VNS 1 PLS LBS GrasS Bluebunch wheatgrass Pseudoroegneria spicata Secar 3 PLS LBS Grass Sandberg bluegrass Poa secunda VNS 1 PLS LBS Grass Blue grama Bouteloua gracilis Bad River 0.5 PLS LBS TOTAL: 17.5 PLS LBS/ACRE			
		Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY March 06, 2015	
NAME (PLEASE PRINT) Stephanie Tomkinson	PHONE NUMBER 435 781-4308	TITLE Sr. Biologist	
SIGNATURE N/A		DATE 3/4/2015	