

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 Quitchampau 1-15								
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 Gas Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME SOWERS CANYON								
6. NAME OF OPERATOR VANTAGE ENERGY UINTA LLC						7. OPERATOR PHONE 303 386-8600								
8. ADDRESS OF OPERATOR 116 Inverness Drive East, Ste 107, Englewood, CO, 80112						9. OPERATOR E-MAIL john.moran@vantageenergy.com								
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UTU78212			11. MINERAL OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>								
13. NAME OF SURFACE OWNER (if box 12 = 'fee')						14. SURFACE OWNER PHONE (if box 12 = 'fee')								
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')								
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>								
20. LOCATION OF WELL		FOOTAGES		QTR-QTR		SECTION		TOWNSHIP		RANGE		MERIDIAN		
LOCATION AT SURFACE		709 FSL 675 FWL		SWSW		15		6.0 S		6.0 W		U		
Top of Uppermost Producing Zone		1501 FSL 666 FWL		NWSW		15		6.0 S		6.0 W		U		
At Total Depth		1980 FSL 660 FWL		NWSW		15		6.0 S		6.0 W		U		
21. COUNTY DUCHESNE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 1009			23. NUMBER OF ACRES IN DRILLING UNIT 7624								
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Approved For Drilling or Completed) 8630			26. PROPOSED DEPTH MD: 6640 TVD: 6500								
27. ELEVATION - GROUND LEVEL 8772			28. BOND NUMBER UTB000288			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 49-1501								
Hole, Casing, and Cement Information														
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight				
COND	20	14	0 - 50	37.0	H-40 ST&C	0.0	No Used	0	0.0	0.0				
SURF	12.25	8.625	0 - 350	24.0	J-55 ST&C	0.0	Class G	263	1.15	15.8				
PROD	7.875	5.5	0 - 6640	15.5	K-55 LT&C	8.6	Type V	120	3.82	11.0				
							Class G	475	1.26	14.2				
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 David F. Banko				TITLE Permit Agent				PHONE 303 820-4480						
SIGNATURE				DATE 03/26/2012				EMAIL david@banko1.com						
API NUMBER ASSIGNED 43013513300000				APPROVAL  Permit Manager										

Vantage Energy Uinta LLC
Quitchampau 1-15
 SHL: 709' FSL 675' FWL (SW/4 SW/4)
 BHL: 1,980' FSL 660' FWL (NW/4 SW/4)
 Sec. 15 T6S R6W
 Duchesne County, Utah
 Federal Mineral Lease: UTU78212
 Sowers Canyon Unit UTU86334X

DRILLING PROGRAM

(All Drilling Procedures will be followed as Per Onshore Orders No. 1 and No. 2)

This Application for Permit to Drill (APD) was initially filed under the Notice of Staking (NOS) process as stated per Onshore Order No. 1 (OSO #1) and supporting Bureau of Land Management (BLM) documents. The process was changed to the "APD" process per OSO #1. This document was prepared using language and requirements consistent with those previously approved by BLM for nearby wells. This APD process included an onsite meeting with BLM representatives and EOG Resources, Inc. (EOG), at which time the specific concerns of EOG and BLM were discussed. Best efforts have been made to address specific concerns of the BLM representatives.

Vantage Energy Uinta LLC (Vantage) acquired the mineral lease and Vantage will be responsible for the compliance with all of the lease terms and conditions for that portion of the lease associated with the APD as originally submitted by EOG.

Please contact Mr. John Moran, Drilling Operations with Vantage at 303-386-8610, if there are any questions or concerns regarding this Drilling Program.

Vantage respectfully requests that all information regarding this well be kept confidential.

A) GEOLOGIC MARKERS

Anticipated tops of geologic markers are indicated in **Table 1**

Table 1 Estimated Tops of Geologic Markers

Formation	Vertical Depth	Measured Depth	Subsea Depth	Description
Green River	Surface	Surface	8,784'	Sandstone/siltstone/shale
Green River Upper Marker	2,143'	2,171'	6,641'	Sand and Siltstone
Mahogany	2,686'	2,728'	6,098'	Oil Shale
Douglas Creek	4,400'	4,486'	4,384'	Sandstone/siltstone/shale
Black Shale	4,975'	5,075'	3,809'	Sandstone/siltstone/shale
Castle Peak	5,350'	5,460'	3,434'	Sandstone/siltstone/shale
Uteland Butte	5,770'	5,891'	3,014'	Carbonate/shale/sandstone
Wasatch	6,000'	6,127'	2,784'	Shale/sandstone
Total Depth	6,500'	6,640'	2,284'	TD ± 500' TVD into Wasatch

Surface Elevation: 8,772' (Ground) 8,786' (Est. KB). Proposed Total Depth: 6,640' / 6,500' (MD/TVD)

B) DEPTHS OF WATER AND MINERAL-BEARING ZONES

B) DEPTHS OF WATER AND MINERAL-BEARING ZONES

Potential water-bearing zones in the vicinity include the Wasatch and Green River formations (Robson and Banta, 1995. *Ground Water Atlas of the United States Segment 2*, Hydrologic Investigations Atlas 730-C, U.S. Geological Survey, Reston, VA). A review of data from the Utah Division of Water Rights indicated no permitted water wells within three miles of the proposed location. Utah Division of Oil, Gas, and Mining surface casing depth requirements will protect potential aquifers in the area.

The depths to potential water and/or mineral-bearing zones are indicated in **Table 2**.

Table 2: Principal Anticipated Water and Mineral-bearing Zones

Formation	Measured Depth	Subsea	Potential Contents
Green River	Surface	8,784'	Surface
Green River Upper Marker	2,171'	6,641'	Possible Water
Mahogany	2,728'	6,098'	Possible Water
Douglas Creek	4,486'	4,384'	Oil / Gas
Black Shale	5,075'	3,809'	Oil / Gas
Castle Peak	5,460'	3,434'	Oil / Gas
Uteland Butte	5,891'	3,004'	Oil / Gas
Wasatch	6,127'	,784'	Oil / Gas

C) MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL EQUIPMENT

The maximum anticipated surface pressure for this well is calculated to be **1,430 psi**. Therefore, rules for a 2,000 psi rated BOP and choke manifold system are applicable. However, the typical rig inventory will consist of a 3,000 psi rated BOP and choke manifold. As such, the rig's BOP and choke manifold equipment will be tested to the standards for a 2,000 psi BOP system. A diagram of the proposed 2,000 psi rated BOP stack configuration is shown in **Fig. 1**.

BOPs and choke manifold will be installed and pressure tested before drilling out from under surface casing (subsequent pressure tests will be performed whenever pressure seals are broken) and then will be checked daily as to mechanical operating condition. BOPs will be pressure tested at least once every 30 days. The annular preventer, pipe rams, and blind rams will be activated on each trip and Operator will conduct weekly BOP drills with the rig crew.

Ram type preventers and related pressure control equipment will be pressure tested to rated working pressure of the stack assembly if a test plug is used. If a plug is not used, the stack assembly will be tested to the rated working pressure of the stack assembly or to 70% of the minimum internal yield of the casing, whichever is less. **Please see variance request at end of program for this section.**

Annular type preventers will be pressure tested to 50% of their rated working pressure. A Sundry Notice (Form 3160~5), along with a copy of BOP test report, shall be submitted to the BLM within 5 working days following the test. All casings strings will be pressure tested to 0.22psi/ft or 1,500psi, whichever is greater, not to exceed 70% of internal yield. **Please see variance request at end of program for this section.**

Casing shoe will be tested by drilling out from below the shoe and testing to the maximum expected mud weight as discussed in the mud program specifications below. Both manual and remote closing mechanisms will be installed on the BOP stack and will be readily available to the driller.

Figure 1: Pressure Control Schematic

Vantage Energy Uinta, LLC

Quitchampau 1-1

SHL: 709' FSL 675' FWL (SW/4 SW/4)

BHL: 1,980' FSL 640' FWL (NW/4 SW/4)

Sec 15 T6S R6W

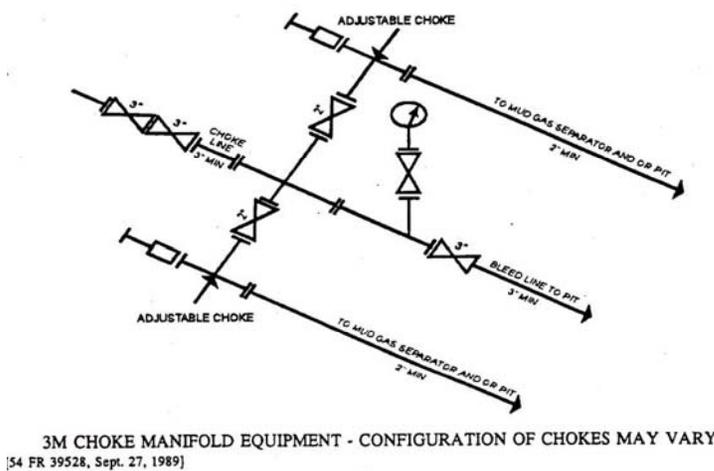
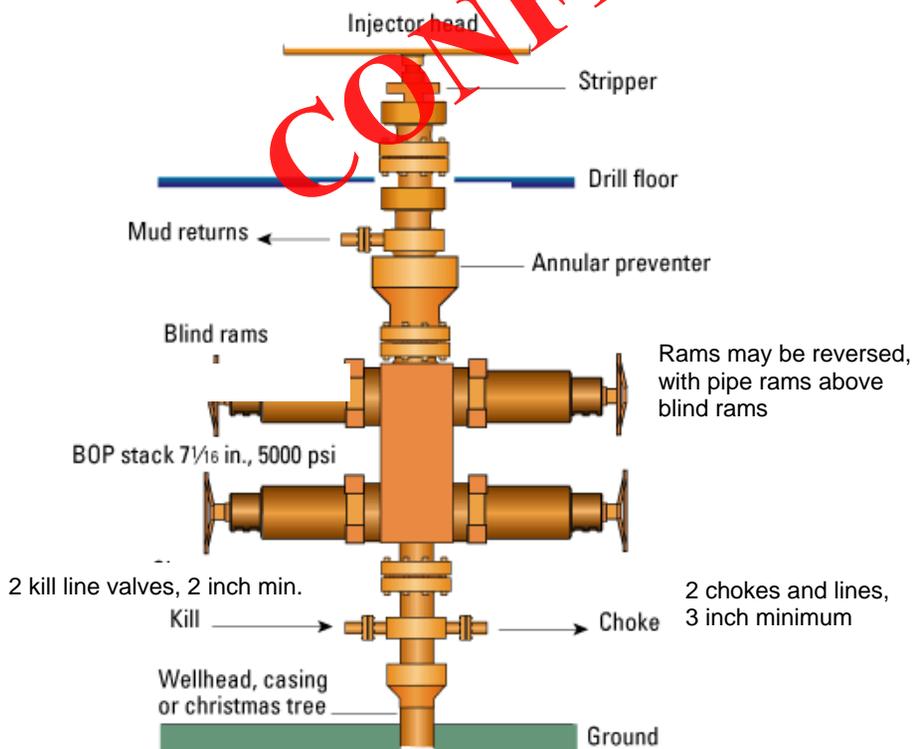
Duchesne County, Utah

Federal Mineral Lease: UTU78212

Sowers Canyon Unit UTU86334X

Generalized Setup for 2,000 psi Working Pressure System

Actual BOP Stack Used May Vary in Some Details



Installed BOP Stack Will Meet All Requirements of BLM Onshore Oil and Gas Order 2

Statement on Accumulator System and Location of Hydraulic Controls

The drilling rig has not yet been selected for this well. Selection will take place after approval of this application. Manual and/or hydraulic controls will be in compliance with *Onshore Oil and Gas Order No. 2* for 2,000 psi systems. Regardless of the rig selected, the rig's accumulator system shall have sufficient capacity to close all BOP's and retain 200 psi above pre-charge. The proposed pressure control equipment will meet or exceed standards specified in the Order.

D) CASING PROGRAM

Casing of quality equal to or better than that indicated in **Tables 3** and **4** will be used for this well. Actual casing used will be dependent on availability.

Table 3 Proposed Casing Program

Depth (MD)	Hole Diameter	Casing Diameter	Casing Weight and Grade
0 – ± 50'	20"	14"	Optional Conductor – Only if Required
0 – 350'	12 1/4"	8 5/8"	24# J55 ST&C, API New Pipe
0 – 6,640'	7 7/8"	5 1/2"	15.5# K55 LT&C, API New Pipe

Table 4: Proposed Casing Specifications and Design Safety Factors

Size	Collapse (psi)	Burst (psi)	Body Strength (1,000 lbs.)	Joint Strength (1,000 lbs.)	Thread	*Safety Factors		
						Burst Design (1.2)	Collapse Design (1.0)	Tension Design (1.4)
14"	NA – 0.219" wall structural and to seal shallow gravels to allow air drilling surface hole				Weld	NA	NA	NA
8 5/8" 24# J55	1,370	2,950	381	244	ST&C	1.42	6.27	4.17
5 1/2" 15.5# J55	4,040	4,810	248	217	LT&C	1.25	1.41	1.55

Safety Factor Calculation Assumptions:*Surface Casing:**

Burst Load: Assumes greater of MASP (maximum anticipated surface pressure) exposure during a worse case kick scenario while drilling at total depth, with mud/gas mixture whose gradient is 0.22 psi/ft. OR, minimum required casing test pressure.

MASP

$$\begin{aligned} \text{Load} &= (\text{Formation Gradient} - 0.22 \text{ psi/ft}) * \text{Total Depth, TVD} \\ &= (0.44 \text{ psi/ft} - 0.22 \text{ psi/ft}) * 6,500 \text{ ft.} \\ &= 1,430 \text{ psi} \end{aligned}$$

TEST PRESSURE

Load = Greater of 1500 psig *or* $0.70 * 2950 = 2065$ psig

SF Burst = 2,950 psi / 2,065 psi = 1.42

Collapse Load: Assumes worse case loading of evacuated casing during cementing process.

Cement density = 12.0 ppg

Load = $12.0 \text{ ppg} * 0.052 * 350 \text{ ft}$
 = 218.4 psi

SF Collapse = 1370 psi / 218.4 psi = 6.27

Tension Load: Assumes air weight at total depth + 50,000 lbs overpull design factor.

Load = $(24 \text{ lbs/ft} * 350 \text{ ft}) + 50,000 \text{ lbs overpull}$
 = 58,400 lbs

SF Tension = 244,000 lbs / 58,400 lbs = 4.17

Test Pressure =

Production Casing

Burst Load: Assumes maximum load applied during the hydraulic fracture stimulations. It is Vantage Energy's policy not to exceed 80% rating of the production casing during the stimulation treatment. The 80% rating factor will also be the casing test pressure.

Load = $4810 \text{ psi} * 0.80$
 = 3848 psi

SF Burst = 4810 psi / 3848 psi = 1.25

Collapse Load: Assumes worse case loading applied during the production cycle, with evacuated casing, and normally pressured formation gradient applied externally.

Load = $0.44 \text{ psi/ft} * 6500 \text{ ft}$
 = 2860 psi

SF Collapse = 4040 psi / 2860 psi = 1.41

Tension Load: Assumes buoyed weight of casing at total depth + 50,000 lbs overpull design factor.

Load = $[15.5 \text{ lbs/ft} * 6640 \text{ ft} * ((65.5 - 8.6) / 65.5)] + 50,000 \text{ lbs}$
 = 89,407 lbs + 50,000 lbs
 = 139,407 lbs

SF Tension = 217,000 lbs / 139,407 lbs = 1.55

E) CEMENT PROGRAM**Table 5: Proposed Cement Program**

Depth	Hole Diameter	Casing Diameter	Cement
0' – ± 50'	20"	14"	Optional structural conductor if required: Grout with approximately 4 cubic yards of redi-mix back to surface (includes 100% excess) TOC: Surface (Top-off per visual observation)
0' – 350'	12 1/4"	8 5/8"	<u>Single Slurry System (350' – Surface) + 40' Shoe Joint</u> 263 sks Class G + 2% CaCl ₂ + 1/4 lb/sk celloflake. Density: 15.8 ppg Yield: 1.15 cuft/sk Water: 5.0 gal/sk Excess = 100% TOC: Surface (Top-off per visual observation)
0' - 6,640'	7 7/8"	5 1/2"	<u>Lead System (4,000' – 2,000')</u> 120 sks Type "V" + 16% Gel + 10 lbs/sk gilsonite + 3% Salt + 1/4 lb/sk celloflake Density: 11.0 ppg Yield: 3.82 cuft/sk Water: 23.0 gal/sk *Excess: 30% <u>Tail System (6,640' – 4,000') + 40' Shoe Joint</u> 475 sks 50:50 (Class G:Poz) + 2% gel + 10% salt + 1/4 lb/sk celloflake Density: 14.2 ppg Yield: 1.26 cuft/sk Water: 5.75 gal/sk *Excess: 30%

*Note: The production hole cement volume will be determined by the caliper log, using caliper volume + 10% excess factor.

F) MUD PROGRAM

The mud program for the proposed well is indicated in **Table 6**.

Table 6 Proposed Mud Program (See attached Halliburton mud program)

Interval (feet)	Mud Weight (lbs/gallon)	Viscosity (secs/qt)	Fluid Loss (ccs/30 min)	Mud Type
0 – ± 50'	NA	NA	NA	NA
Set optional 14" conductor with bucket rig				
50' - 350±	NA	NA	N/C	Air/Mist
Run/cement 8 5/8" surface casing				
350± - TD	8.5 – 8.6	28 - 38	< 20	KCL Water / PHPA / DAP
Run Logs – Run/cement 5 1/2" production casing				

Surface Hole Comments: Spud with “spudder rig” and air drill surface hole misting as may be required to assist with cuttings removal. Report any water encountered to the appropriate agencies. **Please see variance requests for this section.**

Production Hole Comments: Dump spud mud to reserve pit. Drill out surface casing with fresh water adding 6 ppb DAP (Diammonium Phosphate) for shale inhibition and corrosion control. Circulate the reserve pit and flocculate out drill solids. Use pre-hydrated gel and PHPA polymer mud sweeps to assist with hole cleaning. At approximately 4,000' “mud up” and “close in” the fluid system to a 2-3% KCL base fluid. Use PHPA PAC and lignite for filtration control. Maintain fluid system through potential production zones to TD. Should seepage losses be experienced, control with LCM sweeps consisting of calcium carbonate, sawdust, cedar fiber, or mica.

Sufficient mud materials will be maintained on location to adequately maintain mud properties and contain any well kicks. Monitoring equipment will be installed on site to detect changes in mud volume.

G) LOGGING, CORING, AND TESTING PROGRAM

The proposed logging program is indicated in **Table 7**.

Table 7 Proposed Logging Program

Log Suites	Depth Range	Remarks
DIL-SP-LD-CN	Surface Casing to TD	Standard "triple combo" equivalent with resistivity-spontaneous potential, litho-density, compensated neutron, gamma ray, and caliper Will pull GR to surface
Dipole Sonic	± 4,000' to TD	Optional – Operator's discretion Rock property data
Rotary Sidewall Cores	± 4,000' to TD	Optional – Operator's discretion PP/Lithology data (perm-porosity)

No coring or drill stem tests are planned. Mud logging unit will be operational from 200 feet above the Douglas Creek through total depth. Cuttings will be sampled every 20-30 feet.

Prospective zones from the Douglas Creek formation through total depth will be perforated, tested, and potentially acid-washed. It is anticipated that multi-stage hydraulic fracture stimulations of the reservoir will be required.

H) ANTICIPATED PRESSURES AND HAZARDS

No abnormal pressures are anticipated. Pressure gradient in the Green River and Wasatch sequence is expected to be sub-normal pressured to less than 0.44 psi/ft.

Estimated BHP Douglas Creek (4,400')	1,936 psi
Estimated BHP Wasatch (6,000')	2,640 psi
Estimated BHP Total Depth (6,500')	2,860 psi
Hydrostatic head of gas/mud	0.22 psi/ft.
Maximum design surface pressure	0.44 x 0.22 psi/ft x 6,500 ft = 1,430 psi

No H2S zones are anticipated. No abnormal lost circulation zones are anticipated. The proposed well is a southern extension test of development drilling being conducted by Berry Petroleum in T5S-R3W. In addition, the proposed well is located on a previously drilled well site, the Tabby Canyon Unit No. 1, which was drilled to a total depth of 6,946' in January 1971, by Brinkerhoff Drilling Company. There were no abnormal hazards reported during the drilling of this well.

I) DIRECTIONAL PROGRAM (See attached directional plan by Multi-Shot LLC)

The Quitchampau 1-15 will be drilled as a directional well, with a bottom hole located in the center of NE¼ SW¼ Section 15, T6S-R6W. The vertical section distance will be a planned distance of 1,271'. The bottom hole will be landed within a 50' radius target tolerance. The directional plan will consist of a "build-and-hold" profile, with a planned KOP of 500', a build rate of 1.5°/100', and a final hold inclination of 12.9 degrees.

The purpose of the directional well is twofold: 1) To gain distance away from the old wellbore, Tabby Canyon Unit No. 1, which was drilled in January 1971, to insure communication to this old wellbore does not occur during the stimulation treatments planned during the completion phase, and 2) to better position the well on a "perfect" 40-acre drainage pattern for future development considerations.

J) OTHER INFORMATION

Contact Information and Personnel:

Mailing Address

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116 Inverness Drive, Suite 107
Englewood, CO 80112

Main Number: 303-386-8600
Fax Number: 303-386-8700

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E-Mail: Seth.Urruty@VantageEnergy.com

Drilling Operations: John Moran

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Fax Direct: 303-386-8710
Mobile: 303-249-2234
E-Mail: John.Moran@VantageEnergy.com

Completion/Production Operations: Ed Long

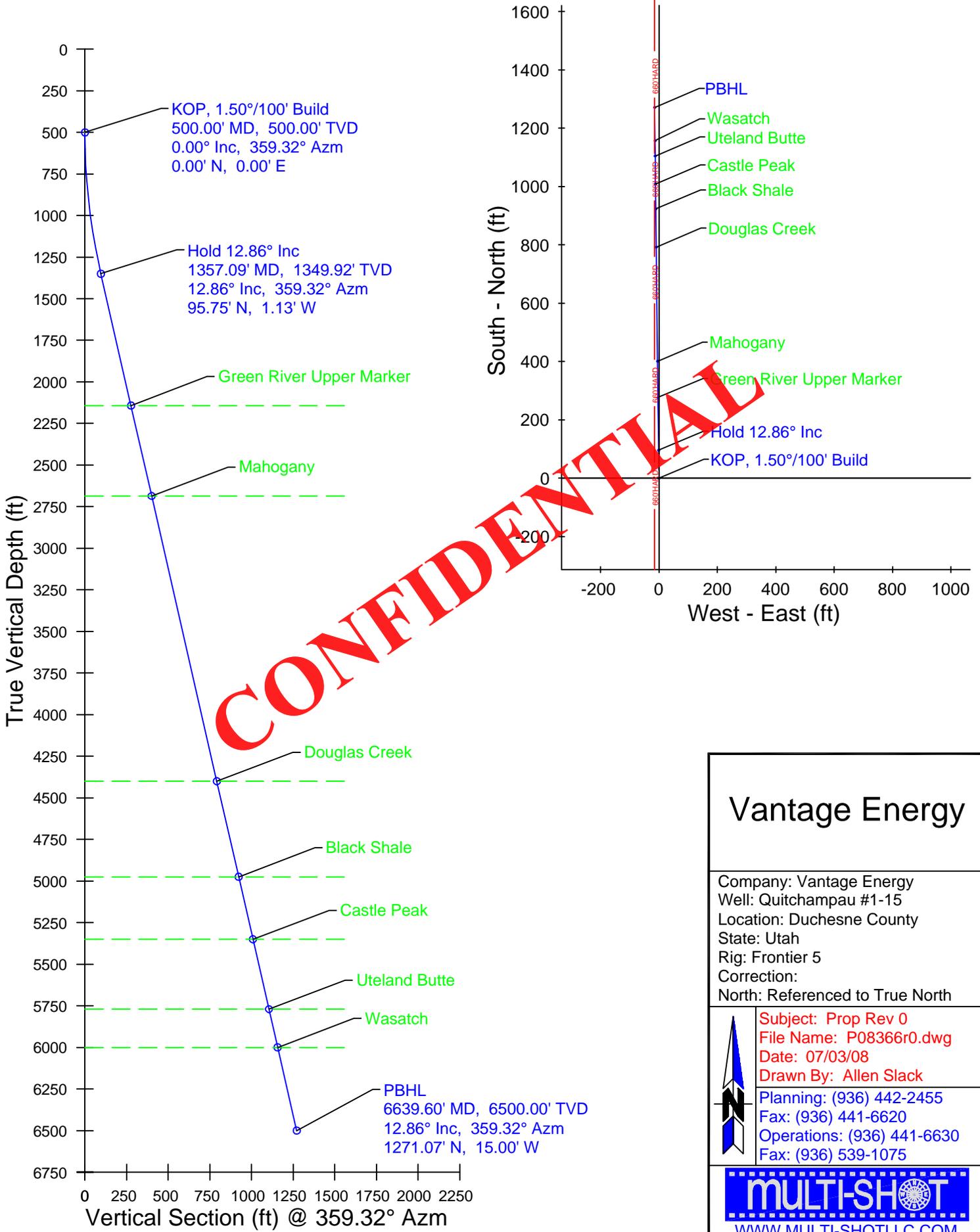
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Landman: Michael Holland

Office Direct: 303-386-8638
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Mobile: 303-396-3443
E-Mail: Michael.Holland@VantageEnergy.com



<h2>Vantage Energy</h2>	
Company: Vantage Energy Well: Quitchampau #1-15 Location: Duchesne County State: Utah Rig: Frontier 5 Correction: North: Referenced to True North	
	Subject: Prop Rev 0 File Name: P08366r0.dwg Date: 07/03/08 Drawn By: Allen Slack
	Planning: (936) 442-2455 Fax: (936) 441-6620 Operations: (936) 441-6630 Fax: (936) 539-1075
<p>WWW.MULTI-SHOTLLC.COM</p>	

The customer should only rely on this document after independently verifying all paths, targets, coordinates, lease and hard lines represented. Any decisions made or wells drilled utilizing this or any other information supplied by Multi-Shot, LLC are at the sole risk and responsibility of the customer. Multi-Shot, LLC is not responsible for the accuracy of this schematic or the information contained herein.



Job Number: P08-366
 Company: Vantage Energy
 Lease/Well: Quitchampau #1-15
 Location: Duchesne County
 Rig Name: Frontier 5
 RKB: 12'
 G.L. or M.S.L.: 8772'

State/Country: Utah
 Declination:
 Grid: Referenced to True North
 File name: F:\WELLPL-1\2008\P08360\SIP08366\08366.SVY
 Date/Time: 03-Jul-08 / 17:08
 Curve Name: Prop Rev 0

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 359.32
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

CONFIDENTIAL

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth FT	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
KOP, 1.50°/100' Build									
500.00	.00	359.32	500.00	.00	.00	.00	.00	.00	.00
600.00	1.50	359.32	599.99	1.31	-.02	1.31	1.31	359.32	1.50
700.00	3.00	359.32	699.91	5.23	-.06	5.23	5.23	359.32	1.50
800.00	4.50	359.32	799.69	11.77	-.14	11.77	11.77	359.32	1.50
900.00	6.00	359.32	899.27	20.92	-.25	20.92	20.92	359.32	1.50
1000.00	7.50	359.32	998.57	32.68	-.39	32.68	32.68	359.32	1.50
1100.00	9.00	359.32	1097.54	47.02	-.55	47.03	47.03	359.32	1.50
1200.00	10.50	359.32	1196.09	63.96	-.75	63.96	63.96	359.32	1.50
1300.00	12.00	359.32	1294.16	83.46	-.98	83.47	83.47	359.32	1.50
Hold 12.86° Inc									
1357.09	12.86	359.32	1349.92	95.75	-1.13	95.76	95.76	359.32	1.50
Green River Upper Marker									
2170.57	12.86	359.32	2143.00	276.74	-3.27	276.76	276.76	359.32	.00
Mahogany									
2727.53	12.86	359.32	2686.00	400.66	-4.73	400.69	400.69	359.32	.00
Douglas Creek									
4485.60	12.86	359.32	4400.00	791.82	-9.34	791.88	791.88	359.32	.00
Black Shale									
5075.39	12.86	359.32	4975.00	923.04	-10.89	923.11	923.11	359.32	.00

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
Castle Peak									
5460.03	12.86	359.32	5350.00	1008.62	-11.90	1008.69	1008.69	359.32	.00
Uteland Butte									
5890.83	12.86	359.32	5770.00	1104.47	-13.03	1104.55	1104.55	359.32	.00
Wasatch									
6126.75	12.86	359.32	6000.00	1156.96	-13.65	1157.04	1157.04	359.32	.00
PBHL									
6639.60	12.86	359.32	6500.00	1271.07	-15.00	1271.16	1271.16	359.32	.00

CONFIDENTIAL

T6S, R6W, U.S.B.&M.

S89°59'W - 5297.16' (G.L.O.)

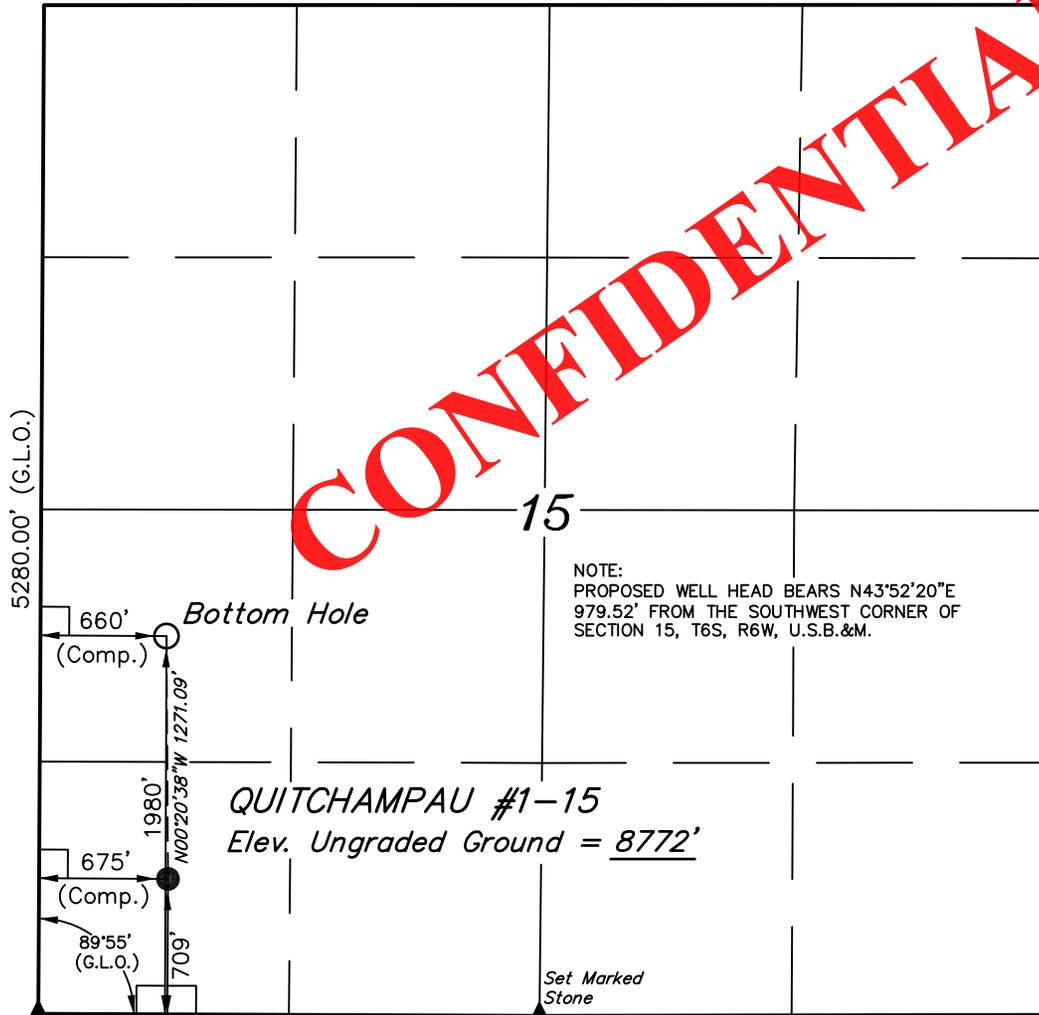
Vantage Energy Uinta LLC

Well location, QUITCHAMPAU #1-15, located as shown in the SW 1/4 SW 1/4 of Section 15, T6S, R6W, U.S.B.&M. Duchesne County, Utah.

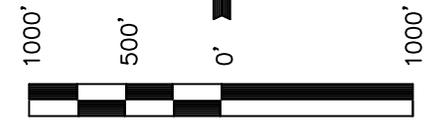
BASIS OF ELEVATION

BENCH MARK (SOWERS) LOCATED IN THE SE 1/4 OF SECTION 36, T6S, R6W, U.S.B.&M. TAKEN FROM THE LANCE CANYON QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 8223 FEET.

CONFIDENTIAL



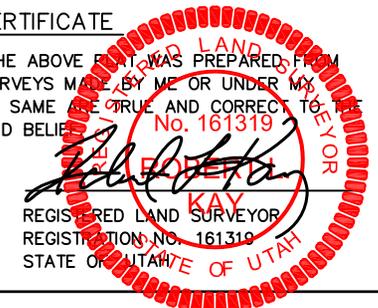
N00°01'W - 5280.00' (G.L.O.)



SCALE

CERTIFICATE

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



REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

REVISED: 06-25-08 C.G.

Set Marked Stone N89°45'30"W - 2625.40' (Meas.) S89°53'W - 2641.32' (G.L.O.)

BASIS OF BEARINGS

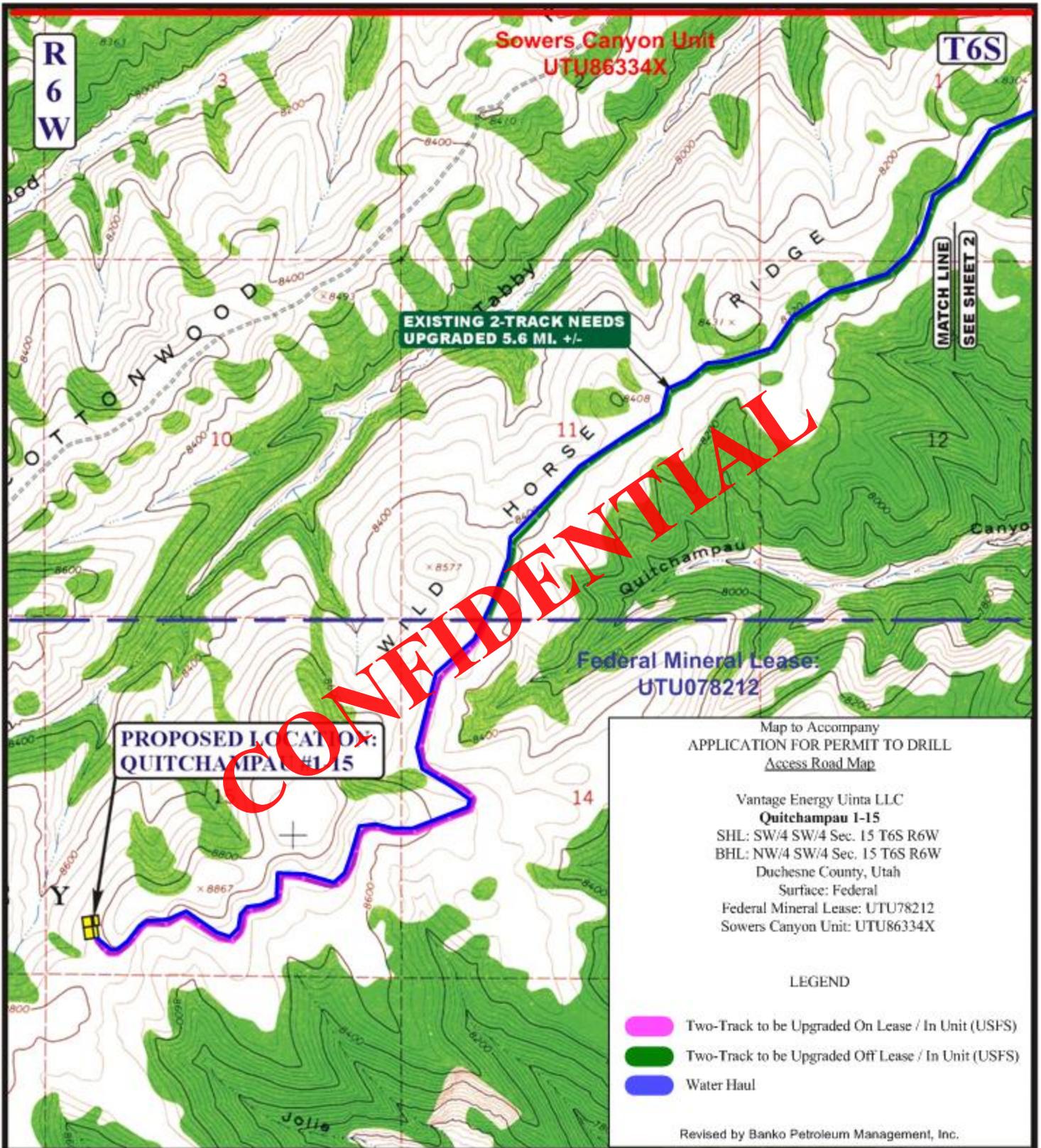
BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

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

AUTONOMOUS NAD 83 (TARGET BOTTOM HOLE)	AUTONOMOUS NAD 83 (SURFACE LOCATION)
LATITUDE = 39°57'28.89" (39.958025)	LATITUDE = 39°57'16.33" (39.954536)
LONGITUDE = 110°33'10.31" (110.552864)	LONGITUDE = 110°33'10.20" (110.552833)
AUTONOMOUS NAD 27 (TARGET BOTTOM HOLE)	AUTONOMOUS NAD 27 (SURFACE LOCATION)
LATITUDE = 39°57'29.03" (39.958064)	LATITUDE = 39°57'16.47" (39.954575)
LONGITUDE = 110°33'07.75" (110.552153)	LONGITUDE = 110°33'07.64" (110.552122)

UNTAH ENGINEERING & LAND SURVEYING 85 SOUTH 200 EAST - VERNAL, UTAH 84078 (435) 789-1017		
SCALE 1" = 1000'	DATE SURVEYED: 05-24-05	DATE DRAWN: 05-31-05
PARTY J.F. P.J. C.G.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE Vantage Energy Uinta LLC	

RECEIVED: March 26, 2012



Map to Accompany
 APPLICATION FOR PERMIT TO DRILL
 Access Road Map

Vantage Energy Uinta LLC
Quitchampau 1-15
 SHL: SW/4 SW/4 Sec. 15 T6S R6W
 BHL: NW/4 SW/4 Sec. 15 T6S R6W
 Duchesne County, Utah
 Surface: Federal
 Federal Mineral Lease: UTU78212
 Sowers Canyon Unit: UTU86334X

LEGEND

- Two-Track to be Upgraded On Lease / In Unit (USFS)
- Two-Track to be Upgraded Off Lease / In Unit (USFS)
- Water Haul

Revised by Banko Petroleum Management, Inc.

LEGEND:

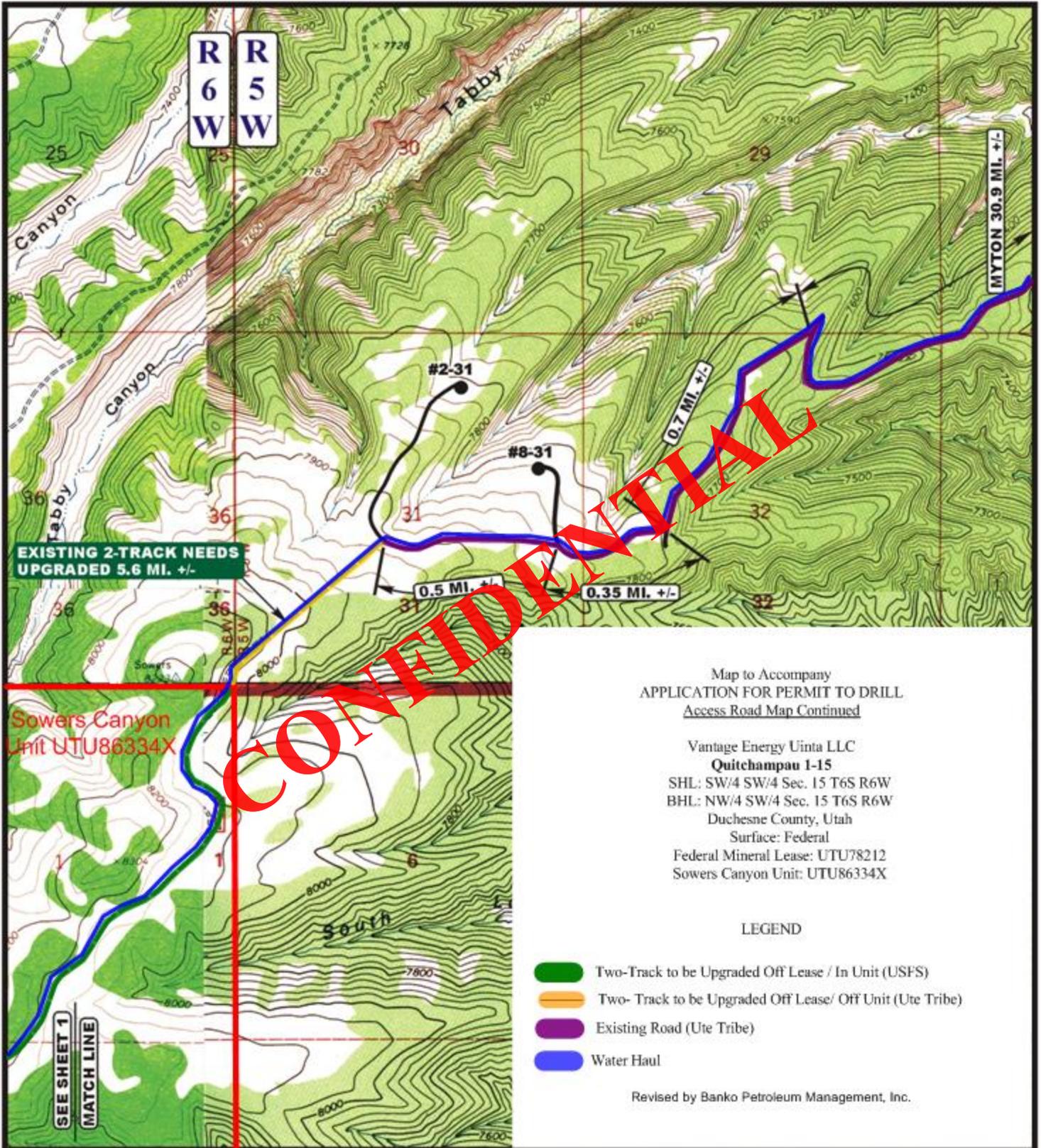
- EXISTING ROAD
- EXISTING 2-TRACK NEEDS UPGRADED

Vantage Energy Uinta LLC
QUITCHAMPAU #1-15
 SECTION 15, T6S, R6W, U.S.B.&M.
 709' FSL 675' FWL

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



TOPOGRAPHIC MAP 06 06 05
 MONTH DAY YEAR
 SCALE: 1" = 2000' DRAWN BY: C.P. REV: 06-26-08 S.L. **B1 TOPO**



Map to Accompany
 APPLICATION FOR PERMIT TO DRILL
Access Road Map Continued

Vantage Energy Uinta LLC
Quitchampau 1-15
 SHL: SW/4 SW/4 Sec. 15 T6S R6W
 BHL: NW/4 SW/4 Sec. 15 T6S R6W
 Duchesne County, Utah
 Surface: Federal
 Federal Mineral Lease: UTU78212
 Sowers Canyon Unit: UTU86334X

LEGEND

- Two-Track to be Upgraded Off Lease / In Unit (USFS)
- Two-Track to be Upgraded Off Lease/ Off Unit (Ute Tribe)
- Existing Road (Ute Tribe)
- Water Haul

Revised by Banko Petroleum Management, Inc.

LEGEND:

- EXISTING ROAD
- EXISTING 2-TRACK NEEDS UPGRADED

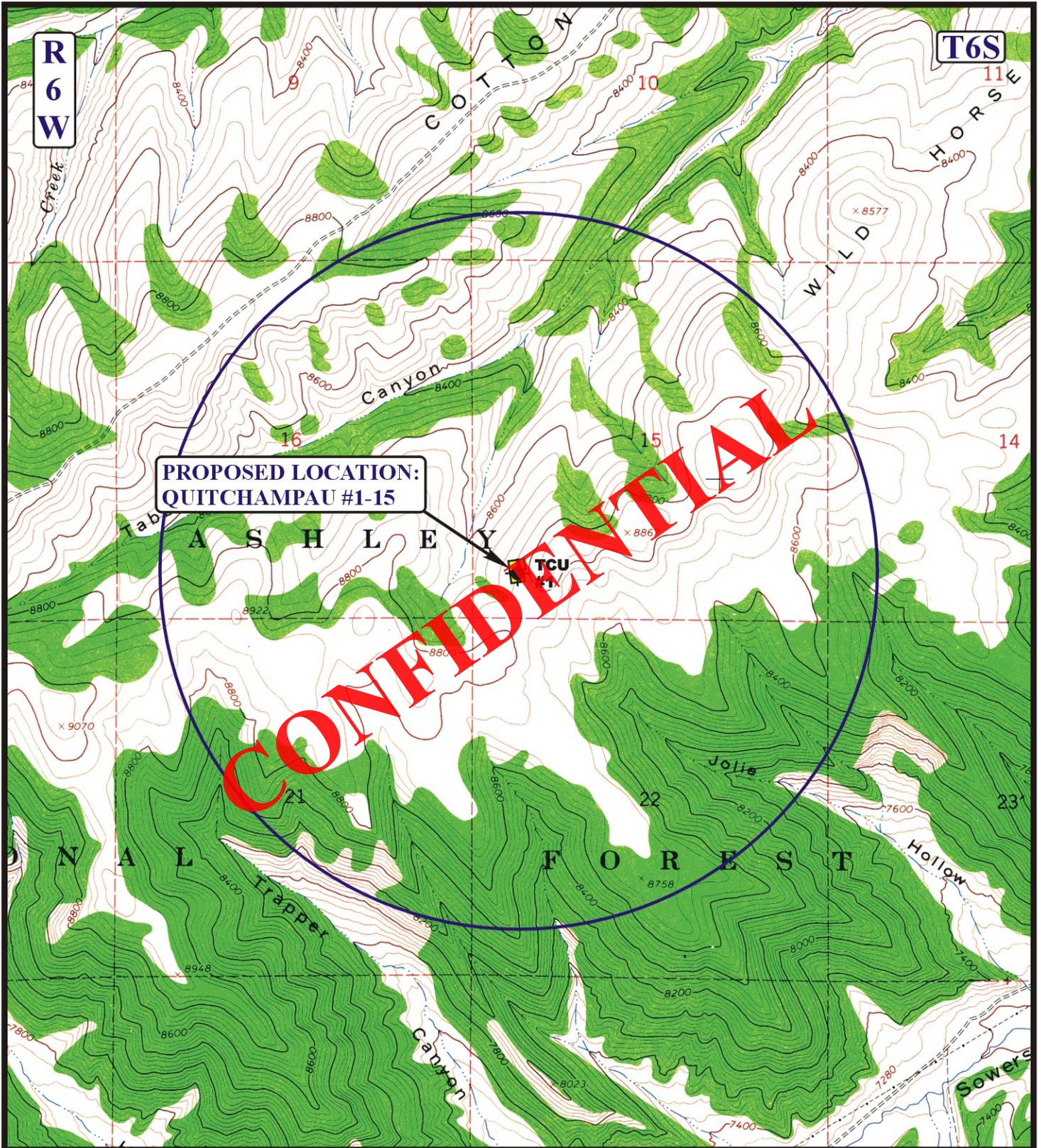


Vantage Energy Uinta LLC

QUITCHAMPAU #1-15
 SECTION 15, T6S, R6W, U.S.B.&M.
 709' FSL 675' FWL

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

TOPOGRAPHIC MAP 06 06 05
 MONTH DAY YEAR
 SCALE: 1" = 2000' DRAWN BY: C.P. REV: 06-26-08 S.L. **B2 TOPO**



**PROPOSED LOCATION:
QUITCHAMPAU #1-15**

CONFIDENTIAL

LEGEND:

- | | |
|-------------------|-------------------------|
| ⊗ DISPOSAL WELLS | ⊕ WATER WELLS |
| ● PRODUCING WELLS | ⊖ ABANDONED WELLS |
| ⦿ SHUT IN WELLS | ⊙ TEMPORARILY ABANDONED |



Vantage Energy Uinta LLC

**QUITCHAMPAU #1-15
SECTION 15, T6S, R6W, U.S.B.&M.
709' FSL 675' FWL**



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

TOPOGRAPHIC MAP 06 06 05
MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: C.P. REV: 06-26-08 S.L.



Vantage Energy Uinta LLC
Quitchampau 1-15
SHL: 709' FSL 675' FWL (SW/4 SW/4)
BHL: 1,980' FSL 660' FWL (NW/4 SW/4)
Sec. 15 T6S R6W
Duchesne County, Utah
Surface: Federal
Federal Mineral Lease: UTU78212
Sowers Canyon Unit UTU86334X

SURFACE USE PLAN OF OPERATIONS

This Application for Permit to Drill (APD) was initially filed under the Notice of Staking (NOS) process as stated per Onshore Order No. 1 (OSO #1) and supporting Bureau of Land Management (BLM) documents. The process was changed to the "APD" process per OSO #1. This document was prepared using language and requirements consistent with those previously approved by BLM for nearby wells. This APD process included an onsite meeting with BLM representatives and EOG Resources, Inc. (EOG), at which time the specific concerns of EOG and BLM were discussed. Best efforts have been made to address specific concerns of the BLM representatives.

Vantage Energy Uinta LLC (Vantage) acquired the mineral lease and Vantage will be responsible for the compliance with all of the lease terms and conditions for that portion of the lease associated with the APD as originally submitted by EOG.

START DATE AND DURATION OF ACTIVITIES

Anticipated start date

The drilling operations will commence as soon as possible following contracting of drilling rig and in compliance with restrictions imposed by lease stipulations and/or Conditions of Approval. It is therefore anticipated the access upgrade work and location work would commence on or about April 1, 2008, with a target spud date of April 15, 2012. It is anticipated the drilling phase will require 7 days.

Completion

The well pad will be of sufficient size to accommodate all required completion equipment and activities. It is anticipated select intervals will be perforated, stimulated and adequately tested for the presence of commercial hydrocarbons prior to moving uphole to the next prospective test interval. As such, it is anticipated the completion phase will require 45 days.

The total project duration is therefore estimated to be **52 days**, and therefore anticipated to be concluded on or about May 22, 2012.

A string of 2 7/8 inch 6.5 lb/ft. J-55 tubing would be run as the production tubing. A Sundry Notice will be submitted should there be any changes to the proposed completion program.

VARIANCE REQUESTS

1. Operator requests a variance to *Onshore Oil and Gas Order 2, Item B, No. 1h*, regulations requiring the surface casing be tested to the greater of 1500 psig, or 70% of the minimum internal yield.
 - a. The MASP for this well is calculated to be 1,430 psig, while the 70% yield rating is 2,065 psig.
 - b. Operator therefore requests approval to test the surface casing to the lesser value of 1,500 psig which is greater than the MASP value.
2. Operator requests a variance to *Onshore Oil and Gas Order 2, Item A*, regulations which outline test pressures for 3M pressure control systems.
 - a. The drilling contractor's standard inventory will consist of 3M pressure control systems; however, as cited above, the MASP for this well is calculated to be 1,430 psig. As such, 2M pressure control equipment is sufficient for the drilling of this well.
 - b. Operator therefore requests approval to test contractor's 3M BOPE to 2M pressure system standards. The double ram preventer will be tested to 2,000 psig, and the annular preventer will be tested to 1,500 psig. Safety valves and choke/kill valves and lines will all be tested to 2,000 psig.
3. Operator requests a variance to *Onshore Oil and Gas Order 2, Item E*, regulations for air/gas drilling operations. Operator plans to drill only the surface hole to a depth of 350', with a "spud rig", in a separate operation from the drilling rig. No hydrocarbons are present in the surface hole section and therefore, "gas" drilling is not applicable to this hole section. Therefore, for the purpose only of drilling the surface hole with an air rig, Operator requests the following four (4) variances from the order that states "...the following equipment shall be in place and operational during air/gas drilling: (1) properly lubricated and maintained rotating head; (2) blooie line discharge one hundred feet (100') from wellbore; (3) automatic igniter or continuous pilot light on the blooie line; and (4) compressor located...a minimum of 100 feet (100') from the wellbore".
 - a. Operator requests approval to use a diverter bowl rather than a rotating head as specified in the Order. The diverter bowl forces air and cuttings to the reserve pit and is only used to drill the surface hole (to a total depth of 350'). The surface hole section is non-hydrocarbon bearing, and therefore formation pressures will not require a pressure rated rotating head. Should water flows be encountered, they will be reported to the appropriate agencies.
 - b. Operator requests approval to use a blooie line with a discharge length of less than the required one hundred feet (100') from the wellbore in order to minimize the well pad size, and to direct the cuttings into the reserve pit. The wellbore is to be located approximately thirty-five feet (35') from the reserve pit which is to be seventy feet (70') wide. Therefore, a one hundred foot (100') blooie line would blow cuttings across the reserve pit. The requested length of blooie line to drill the surface hole is thirty-five feet (35'). This is the distance necessary to reach the edge of the reserve pit and to therefore direct cuttings into the reserve pit in a safe and efficient manner.
 - c. Operator requests approval to operate without an automatic igniter or continuous pilot light on the blooie line. The surface hole section is non-hydrocarbon bearing and therefore does not require a continuous ignition source.
 - d. Operator requests approval to use a trailer mounted air compressor located less than one hundred feet (100') from the wellbore in order to minimize the location size. The compressor will be located fifty feet (50') from the wellbore in an opposite direction of the blooie line. The compressor has the following safety features: (1) shut-off valve on

the trailer located approximately fifteen feet (15') from the air rig; (2) pressure relief valve on the compressor; and (3) spark arrestors on the motors. The compressor will only be used for the drilling of the surface hole, which is non-hydrocarbon bearing.

1. EXISTING ROADS

- A. See attached Wellsite Plats showing directional reference stakes on location, and attached TOPO Map "B" showing access to location from existing roads.
- B. The proposed well site is located approximately 38.05 miles southwest of Myton, Utah – See attached TOPO Map "A".
- C. Refer to attached Topographic Map "B1" and Topographic Map "B2" showing labeled access route to location.
- D. The 5.6-mile 2-track road will serve as access to the well. It will be upgraded to meet the standards of the anticipated traffic flow and all-weather road requirements. Upgrading will include ditching, drainage, graveling, crowning, and capping the roadbed as necessary to provide a well-constructed safe road. The upgraded access road will have an 18-foot dirt surface. Prior to upgrading, the road will be cleared of any snow cover and allowed to dry completely. Upgrading will not be allowed during muddy conditions. Should mud holes develop, they shall be filled in and detours around them avoided. Traveling off the 30 foot Right-of-Way will not be allowed.
- E. Existing roads will be maintained and repaired as necessary.
- F. Men and equipment will be commuting from the Vernal/Duchesne area. This well is planned to be drilled in the summer of 2012. Drilling and completion would occur over a period of approximately seven weeks.

2. PLANNED ACCESS ROAD

- A. Access to the well will be provided by the existing 2-track road previously described. See attached TOPO Map "B1".
- B. A cultural resource survey will be conducted on the proposed access route after the route location with upgrades has been finalized.
- C. Maximum grade on access road will be 8%.
- D. No turnouts will be required.
- E. No culverts, bridges, or major cuts and fills will be required.
- F. No gates, cattleguards, or fences will be required. As operator, Vantage Energy will be responsible for all maintenance on cattleguards, or gates associated with this oil and/or gas operation.

- G. New or reconstructed roads were centerlined-flagged at the time of location staking.
- H. Road drainage crossings will be of the typical dry creek drainage crossing type. Crossings will be designed so they will not cause siltation or accumulation of debris in the drainage crossings nor will the drainages be blocked by the roadbed.
- I. Erosion of drainage ditches (if constructed) by run-off water will be prevented by diverting water off at frequent intervals by means of cutouts.

3. **LOCATION OF EXISTING WELLS WITHIN A ONE MILE RADIUS OF PROPOSED WELL LOCATION**

Abandoned wells – 1. See attached TOPO Map “C”
Please see Nearby Oil and Gas Wells Table

4. **LOCATION OF EXISTING AND/OR PROPOSED FACILITIES**

A. ON WELL PAD

- 1. The proposed location will be constructed on the existing location for the plugged and abandoned TCU #1. This location has not been reclaimed.
- 2. Permanent production facilities will not be set on location. This well is an exploratory well.
- 3. Gas gathering lines will not be installed.
- 4. Approximately 1.34 acres will be required for the construction of the well pad, approximately 50% of which will use the unreclaimed TCU #1 well pad. If the well is determined to be dry, the entire location will be reclaimed according to USFS requirements.

B. OFF WELL PAD: No facilities are planned off the well pad.

5. **LOCATION & TYPE OF WATER SUPPLY**

- A. Water supply will be from the nearest approved source, possibly from the Ouray Municipal Water Plant at Ouray, Utah, and/or Target Trucking Inc.’s water source in the SW/SW, Sec. 35, T9S, R22E, Uintah County, Utah (State Water Right #49-1501). Water will be hauled by a licensed trucking company.
- B. If drilling the conductor or surface hole indicates the existence of water bearing zones; Vantage Energy will consider drilling a water well on the location to provide a more viable water source. Drilling a water well would reduce truck travel to the well site. No additional disturbance will result from drilling a water well.

6. SOURCE OF CONSTRUCTION MATERIAL

- A. All construction material for this location and access road will be of native borrow and soil accumulated during the construction of the location.
- B. All construction material will come from federal land.
- C. No mineral materials will be required.

7. METHODS OF HANDLING WASTE DISPOSAL**A. METHODS AND LOCATION**

- 1. Cuttings will be confined in the reserve pit.
- 2. A portable toilet will be provided for human waste during the drilling and completion of the well. Disposal will be at the Roosevelt sewage disposal plant or other approved disposal site.
- 3. Burning will not be allowed. Trash and other waste material will be contained in a wire mesh cage and disposed of at the nearest approved landfill or the Duchesne County Landfill.
- 4. All chemicals will be disposed of at an authorized disposal site. Drip pans and absorbent pads will be used on the drilling rig to avoid leakage of oil to the pit.

B. RESERVE PIT

- 1. Water from drilling fluids and recovered during testing operations will be disposed of by removal and transport to an authorized disposal site.
- 2. Introduction of well bore hydrocarbons to the reserve pit will be avoided by flaring them off in the flare pit at the time of recovery.
- 3. Produced wastewater will be confined to a lined pit or storage tank for a period not to exceed 90 days after initial production. After the 90-day period, the produced water will be disposed of an authorized disposal site. The tank, if used, would be removed from the location as soon as practicable after the water is transported from the location.
- 4. The reserve pit will be constructed so as not to leak, break, or allow discharge. If the reserve pit requires padding prior to lining (due to rocky conditions) felt padding will be used.
- 5. The reserve pit will be lined with felt and a 12-millimeter plastic liner.

8. ANCILLARY FACILITES

No airstrips, camps, or other ancillary facilities are planned for this well.

9. WELLSITE LAYOUT

- A. Refer to attached well site plat for related topography cuts and fills and cross sections.
- B. Refer to attached well site plat for rig layout and soil material stockpile location as approved on onsite.
- C. Refer to attached well site plat for rig orientation.

- D. The approved seed mixture for this location will be as required by the USFS.
- E. The reserve pit will be located on the northeast corner of the location. The flare pit will be located downwind of the prevailing wind direction on the east side of the location, a minimum of 100 feet from the well head. The position of the flare pit will be dictated by rig configuration such that the flare pit is a safe distance from the reserve pit without requiring use of elbows or excessive bends in flare lines.
- F. The stockpiled location topsoil will be stored east of Corner #6.
- G. Access to the well pad will be from the south.
- H. FENCING REQUIRMENTS: All pits will be fenced according to the following minimum standards:
1. Thirty-nine inch net wire shall be used with at least one strand of barbed wire on top of the net wire. (Barbed wire is not necessary if pipe of some type of reinforcement rod is attached to the top of the entire fence).
 2. The net wire shall be no more than 2 inches above the ground. The barbed wire strand shall be 3 inches above the net wire. Total height of the fence shall be at least 42 inches.
 3. Corner posts shall be cemented and/or braced in such a manner as to keep the fence tight at all times.
 4. Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than 16 feet.
 5. All wire shall be stretched by using a stretching device before it is attached to the corner posts.
 6. The reserve pit fencing will be on the three sides during drilling operations and on the fourth side when the rig moves off the location. Pits will be fenced and maintained until clean-up.
 7. Each existing fence to be crossed by the access road shall be braced and tied off before cutting so as to prevent slacking of the wire. The opening shall be closed temporarily as necessary during construction to prevent the escape of livestock, and, upon completion of construction, the fence shall be repaired to USFS specifications. Prior to crossing any fence located on Federal land, or any fence between Federal land and private land, the operator will contact the USFS, who will in turn contact the grazing permittee or owner of said fence and offer him/her the opportunity to be present when the fence is cut in order to satisfy himself/herself that the fence is adequately braced and tied off.

10. PLANS FOR RESTORATION OF SURFACE

A. COMPLETED LOCATION

1. Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, materials, and trash not required for production.
2. Immediately upon well completion, any hydrocarbons on the pit will be removed in accordance with CFR 3162.7-1.
3. If a plastic nylon reinforced liner is used, it will be torn and perforated before backfilling of the reserve pit.
4. Interim reclamation will be performed on all areas of the access road and well pad not needed after drilling and completion operations (if performed) are finished.

5. The reserve pit will be recontoured to the approximate natural contours. The stockpiled pit topsoil will then be spread over the pit area and broadcast seeded with the prescribed seed mixture for this location. The seeded area will then be walked down with a cat.
6. Rat and mouse holes will be filled and compacted from bottom to top immediately after release of the drilling rig from the location.
7. Topsoil from the berms and/or storage piles will be spread along the road's cut and fill slopes. Drainage ditches or culverts will not be blocked with topsoil and associated organic matter. The topsoil areas will be seeded as stated below. The unused area of the pad will be recontoured and topsoil spread six inches deep. The area on the contour will be ripped one foot deep using ripper teeth set on one-foot centers.
8. All disturbed, unused areas will be seeded using a drill equipped with a depth regulator. All seed will be drilled on the contour. The seed will be planted between one-quarter and one-half inch deep. Where drilling is not possible (i.e., too steep or rocky), the seed will be broadcast and the area raked or chained to cover the seed. If the seed mixture is broadcast, the rate will be doubled. The certified or registered seed mixture and application rates will be obtained from the Authorized Officer.
9. Seeding will be done either in late autumn (September 1 to November 15, before freeze up) after completion or as early as possible to the following spring to take advantage of available ground moisture. The seeding shall be repeated until a satisfactory stand, as determined by the authorized Officer, is obtained. The first evaluation of growth will be made following completion of the first growing season after seeding.
10. If the well is determined to be one capable of successful production, Vantage Energy understands that the installation of production facilities would occur only after appropriate review and approval by the USFA and BLM.

- B. DRY HOLE ABANDONED LOCATION: Prior to final abandonment reclamation work, a sundry notice describing the proposed reclamation plan will be submitted to the Authorized Officer for approval.

11. SURFACE OWNERSHIP

Access road: Federal – Ashley National Forest
Location: Federal – Ashley National Forest

12. OTHER INFORMATION

- A. Cultural resources surveys were performed by Montgomery Archaeological Consultants and are attached to this APD. Montgomery Archeological Consultants will submit paleontological surveys. A SHPO concurrence letter, dated 09/19/05, was received at the Ashley NF office on 9/28/05.
- B. Vantage Energy will inform all persons in the area who are associated with this project that they are subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator will immediately stop work that might further disturb such materials and contact the AO. Within five working days the AO will inform the operator as to:
 - Whether the materials appear eligible for the National Register of Historic Places;

- The mitigation measures the operator will likely have to undertake before the site can be used.
- A time frame for the AO to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that mitigation is appropriate.

If the operator wished, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials that may be required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that required mitigation has been completed, the operator will then be allowed to resume construction.

- C. As operator, Vantage Energy will control noxious weeds along ROWs for roads, well sites, or other applicable facilities. A list of noxious weeds will be obtained from the USFS, or the appropriate County Extension Office. On USFS-administered land, a Pesticide Use proposal shall be submitted, and given approval, prior to the application of herbicides or other pesticides or possible hazardous chemicals.
- D. The drilling rig and ancillary equipment will be removed from the location prior to commencement of completion operations. Completion operations will be conducted using a completion/workover rig.
- E. The Quitchampau #1-15 is an exploratory well. As such, temporary production facilities may be installed on the well pad. No permanent production facilities will be constructed until such time that they are needed to produce the well and additional NEPA documentation of such actions is performed and approval granted.

Vantage Energy Uinta LLC
Quitchampau 1-15
SHL: 709' FSL 675' FWL (SW/4 SW/4)
BHL: 1,980' FSL 660' FWL (NW/4 SW/4)
Sec. 15 T6S R6W
Duchesne County, Utah
Surface: Federal
Federal Mineral Lease: UTU78212
Sowers Canyon Unit UTU86334X

APPLICATION FOR PERMIT TO DRILL
OPERATOR CERTIFICATION

LESSEE'S OR OPERATOR'S REPRESENTATIVE:

Operator

Corporate Office

Vantage Energy, LLC
116 Inverness Drive East, Suite 107
Englewood, CO 80112
Phone: 303-386-8600
Fax: 303-386-8705

Michael Holland – Senior Landman
John Moran – Vice President Operations

Field Office

Vantage Energy, LLC
116 Inverness Drive East, Suite 107
Englewood, CO 80112
Phone: 303-386-8600
Fax: 303-386-8705

Permit Agent

Banko Petroleum Management, Inc.
385 Inverness Parkway, Suite 420
Englewood, Colorado 80112-5849
Phone: 303-820-4480
Fax: 303-820-4124

+ David Banko – Consulting Petro Engineer
david@banko1.com
Kim Rodell – Regulatory Project Manager
kim@banko1.com

+ For any questions or comments regarding this permit.

OPERATOR CERTIFICATION:

I hereby certify that Vantage Energy Uinta LLC and its contractors and sub-contractors are responsible for the operations conducted under this application subject to the terms and conditions of the mineral lease. Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Vantage Energy Uinta LLC under their nationwide bond, BLM Bond No. UTB000288.

I hereby certify that I, or someone under my direct supervision, have inspected the drillsite and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

March 2, 2012



Kimberly J. Rodell
Permit Agent for Vantage Energy Uinta LLC

CONFIDENTIAL

Vantage Energy Uinta LLC
 Quitchampau 1-15
 SHL: 709' FSL 675' FWL (SW/4 SW/4)
 BHL: 1,980' FSL 660' FWL (NW/4 SW/4)
 Sec. 15 T6S R6W
 Duchesne County, Utah
 Surface: Federal
 Federal Mineral Lease: UTU78212

Oil and Gas Wells within a 3 mile radius

API Well Number	Operator	Well Name	Well Status	Well Type	Coalbed Methane Well?	Field Name	Surface Ownership	Mineral Lease	County	Section	Range	Township (T6S)	Range (R6W)	UTM Eastings	UTM Northings	Latitude	Longitude	Elev. GR	Elev. KB	TD	Confidential?
43-013-10420-00-00	GULF OIL CORPORATION	SOWERS CANYON FED 1	Plugged and Abandoned	Unknown	No	WILDCAT	Federal	Federal	DUCHESNE	24	6S-6W	2310	N 2323	W 541891	4421904	39.94623	-110.50963	7083	4575	No	
43-013-10493-00-00	HUMBLE OIL & REFINING CO	SOWERS CANYON U 1	Plugged and Abandoned	Unknown	No	WILDCAT	Federal	Federal	DUCHESNE	35	6S-6W	1980	N 1980	W 540190	4418791	39.91826	-110.52973	7651	5500	No	
43-013-30053-00-00	BRINKERHOFF DRILLING CO	TABBY CANYON U 1	Plugged and Abandoned	Oil Well	No	WILDCAT	Federal	Federal	DUCHESNE	15	6S-6W	660	S 660	W 538174	4422795	39.95443	-110.55308	8892	6946	No	
43-013-30493-00-00	BURTON/HAWKS INC	SOWERS CANYON FED 27-1	Plugged and Abandoned	Gas Well	No	WILDCAT	Federal	Federal	DUCHESNE	27	6S-6W	2453	N 1117	E 539242	4420238	39.93134	-110.54074	7357	4144	No	
43-013-32940-00-00	VANTAGE ENERGY UINTA LLC	QUITCHAMPAU 1-15	Location Abandoned	Gas Well	No	WILDCAT	Federal	Federal	DUCHESNE	15	6S-6W	709	S 675	W 538184	4422812	39.95458	-110.55297	8772		No	
43-013-32941-00-00	EOG RESOURCES INC.	ROAD HOLLOW 1-35	Approved permit (APD); not yet spudded	Gas Well	No	WILDCAT	Federal	Federal	DUCHESNE	35	6S-6W	1948	N 2125	W 540230	4418796	39.91831	-110.52926	7506		Yes	

Data taken from the Utah Division of Oil, Gas and Mining on February 17, 2012.

CONFIDENTIAL



VANTAGE ENERGY

Ms. Diana Mason
State of Utah
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Salt Lake City, UT 84114

March 21, 2012

Re: Directional Drilling R649-3-11
Vantage Energy Uinta, LLC
Quitchampau 1-15
SHL: 709' FSL 675' FWL (SW/4 SW/4)
BHL: 1,980' FSL 660' FWL (NW/4 SW/4)
Sec. 15 T6S R6W
Duchesne County, Utah
Surface: Federal
Federal Mineral Lease: UTU78212
Sowers Canyon Unit UTU86334X

Dear Ms. Mason:

With regards to the filing of Vantage Energy Uinta LLC's (Vantage) Application for Permit to Drill regarding the above referenced well, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11, pertaining to the Exception of Location and Siting of Wells.

- Quitchampau 1-15 is an exploratory well located within the Sowers Canyon Unit UTU86334X.
- Vantage is permitting this well as stipulated by the United States Forest Service as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location, Vantage will be better able to utilize any proposed roads and or pipelines in the area.
- Vantage is the unit operator of the Sowers Canyon Unit. As it pertains to all depths from the surface to the base of the Wasatch Formation, Vantage certifies it is the sole working interest owner within 460 feet of the entire directional well bore and within Section 15 (federal oil and gas lease UTU78212). As to all depths deeper than the Base of the Wasatch Formation, the sole working interest owner is Exxon Mobil Corporation (XOM). Vantage and XOM have entered into a mutually executed Exploration Agreement that provides for the possible development of those deeper depths.

RECEIVED: March 26, 2012

Utah Division Oil, Gas & Mining

March 21, 2012

Page 2 of 2

Based on the above stated information, Vantage requests the permit be granted pursuant to the terms and conditions of **Rule R649-3-11**.

Sincerely,

VANTAGE ENERGY UINTA, LLC



Michael Holland
Senior Landman

Cc: mth,jm, dv, tt, kh, su, mr, David Banko, Kim Rodell, Andrea Gross (Banko Petroleum Management)

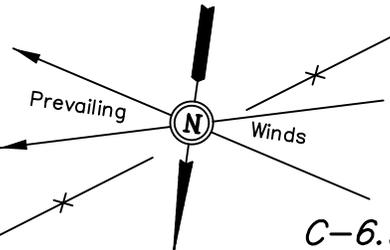
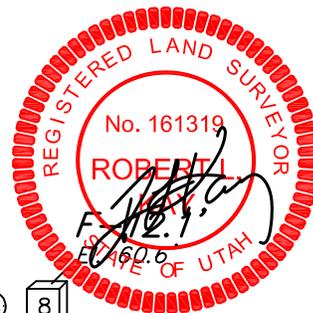
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RECEIVED: March 26, 2012

Vantage Energy Uinta LLC

LOCATION LAYOUT FOR

QUITCHAMPAU #1-15
SECTION 15, T6S, R6W, U.S.B.&M.
709' FSL 675' FWL

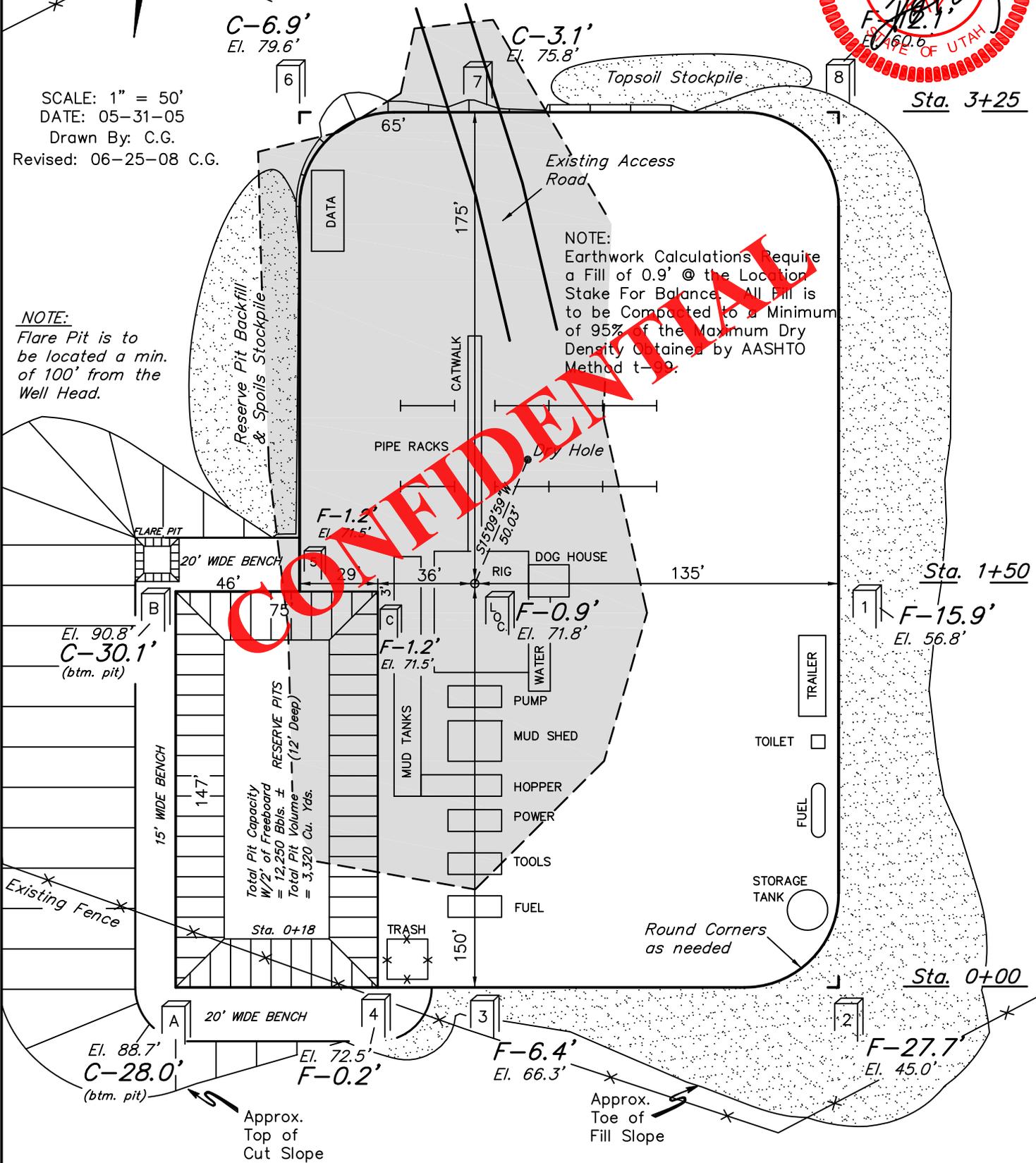


SCALE: 1" = 50'
DATE: 05-31-05
Drawn By: C.G.
Revised: 06-25-08 C.G.

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

NOTE:
Earthwork Calculations Require a Fill of 0.9' @ the Location Stake For Balance. All Fill is to be Compacted to a Minimum of 95% of the Maximum Dry Density Obtained by AASHTO Method t-99.

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Elev. Ungraded Ground at Location Stake = 8771.8'
Elev. Graded Ground at Location Stake = 8772.7'

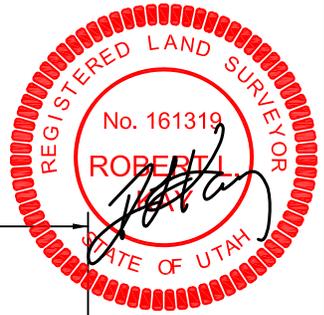
UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

RECEIVED: March 28, 2012

Vantage Energy Uinta LLC

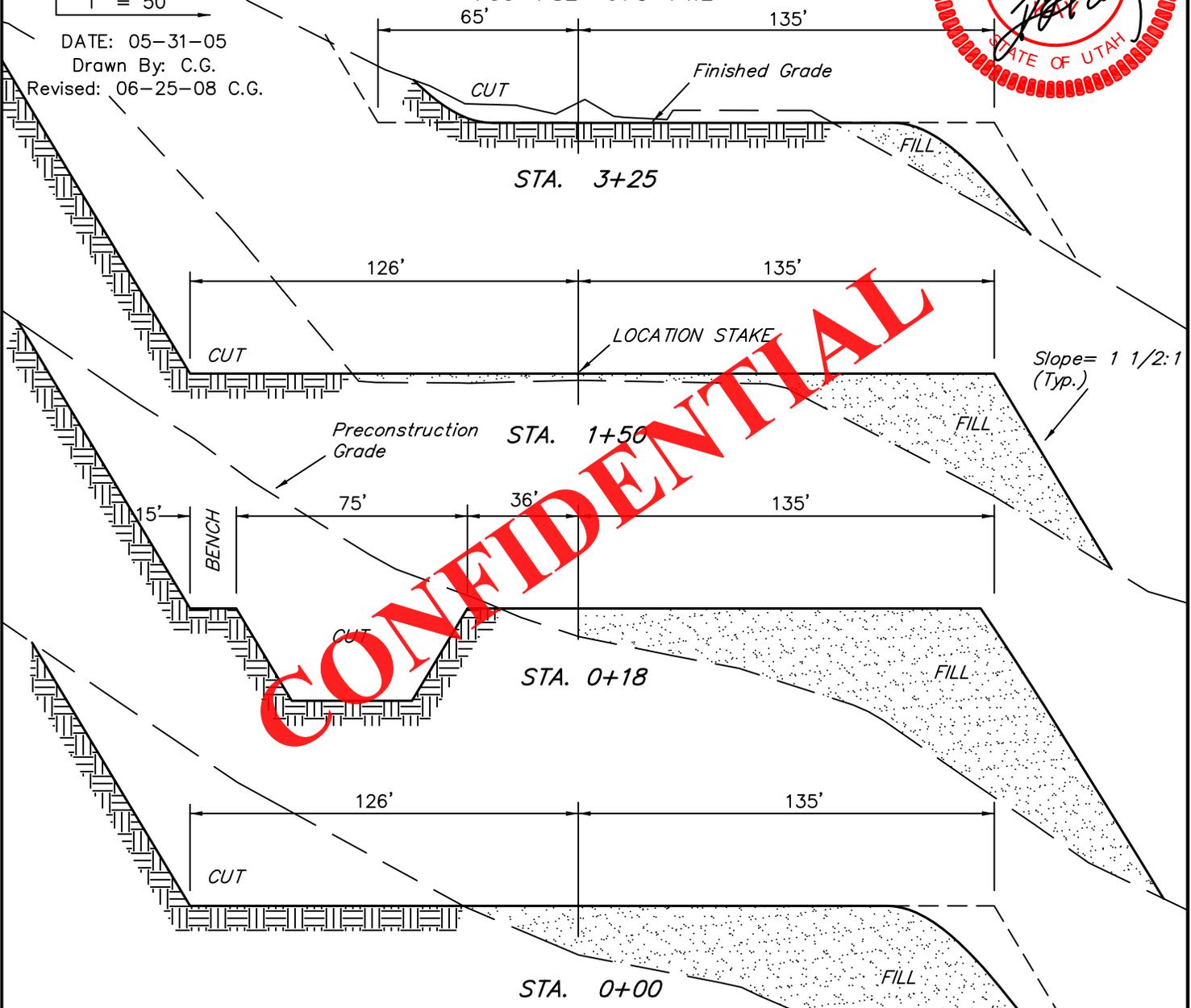
TYPICAL CROSS SECTIONS FOR

QUITCHAMPAU #1-15
SECTION 15, T6S, R6W, U.S.B.&M.
709' FSL 675' FWL



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

DATE: 05-31-05
 Drawn By: C.G.
 Revised: 06-25-08 C.G.



* NOTE:
 FILL QUANTITY INCLUDES
 5% FOR COMPACTION

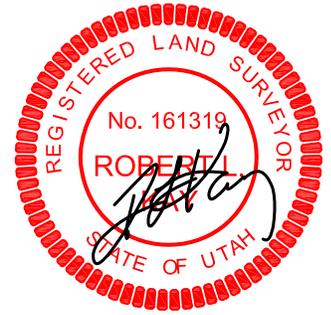
APPROXIMATE YARDAGES

(6") Topsoil Stripping	= 2,300 Cu. Yds.	EXCESS MATERIAL	= 3,960 Cu. Yds.
Remaining Location	= 19,700 Cu. Yds.	Topsoil & Pit Backfill (1/2 Pit Vol.)	= 3,960 Cu. Yds.
TOTAL CUT	= 22,000 CU.YDS.	EXCESS UNBALANCE (After Rehabilitation)	= 0 Cu. Yds.
FILL	= 18,040 CU.YDS.		

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

Vantage Energy Uinta LLC
PRODUCTION FACILITY LAYOUT FOR

QUITCHAMPAU #1-15
SECTION 15, T6S, R6W, U.S.B.&M.
709' FSL 675' FWL

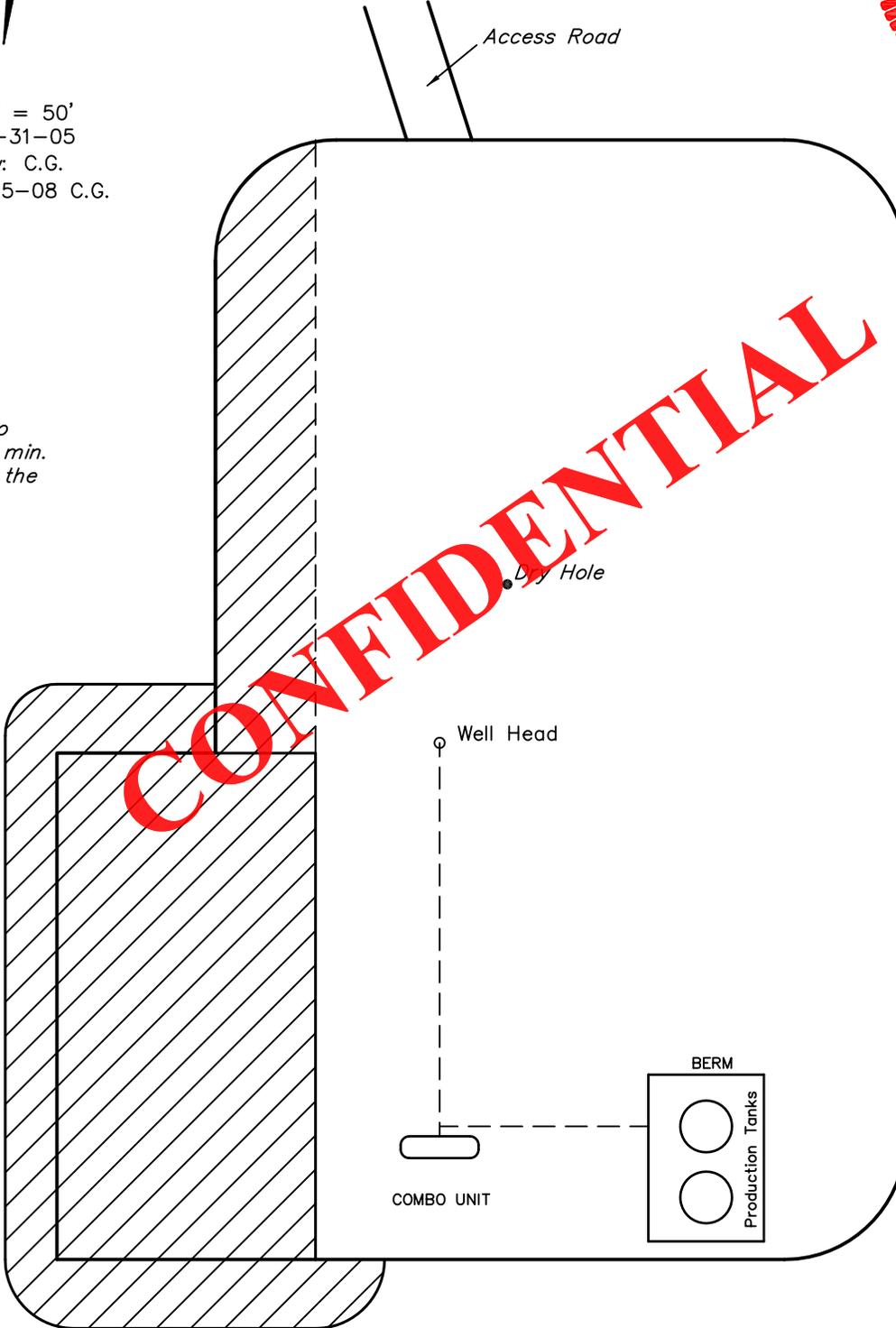


Access Road

SCALE: 1" = 50'
DATE: 05-31-05
Drawn By: C.G.
Revised: 06-25-08 C.G.

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

CONFIDENTIAL

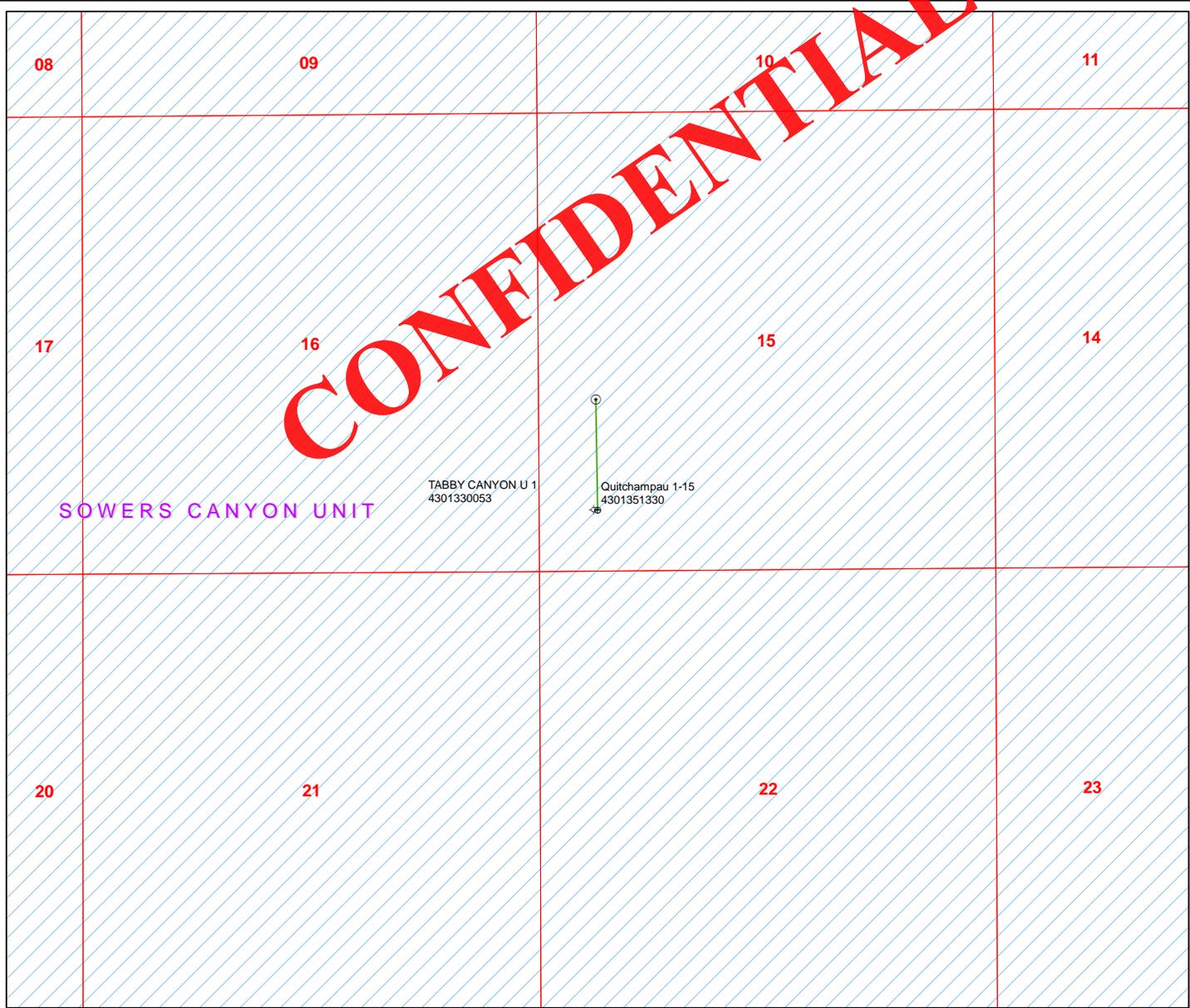


 RE-HABED AREA

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

RECEIVED: March 28, 2012

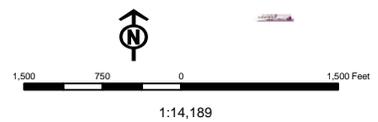
CONFIDENTIAL



API Number: 4301351330
Well Name: Quitchampau 1-15
Township T0.6 . Range R0.6 . Section 15
Meridian: UBM
 Operator: VANTAGE ENERGY UINTA LLC

Map Prepared:
 Map Produced by Diana Mason

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



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:

3160

(UT-922)

March 30, 2012

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2012 Plan of Development Sowers Canyon Unit,
Duchesne County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following well is planned for calendar year 2012 within the Sowers Canyon Unit, Duchesne County, Utah.

API#	WELL NAME	LOCATION
------	-----------	----------

(Proposed PZ GREEN RIVER - WASATCH)

43-013-51330	Quitchoampau	1-15 Sec 15 T06S R06W 0709 FSL 0675 FWL
		BHL Sec 15 T06S R06W 1980 FSL 0660 FWL

We have no objections to permitting the well at this time.

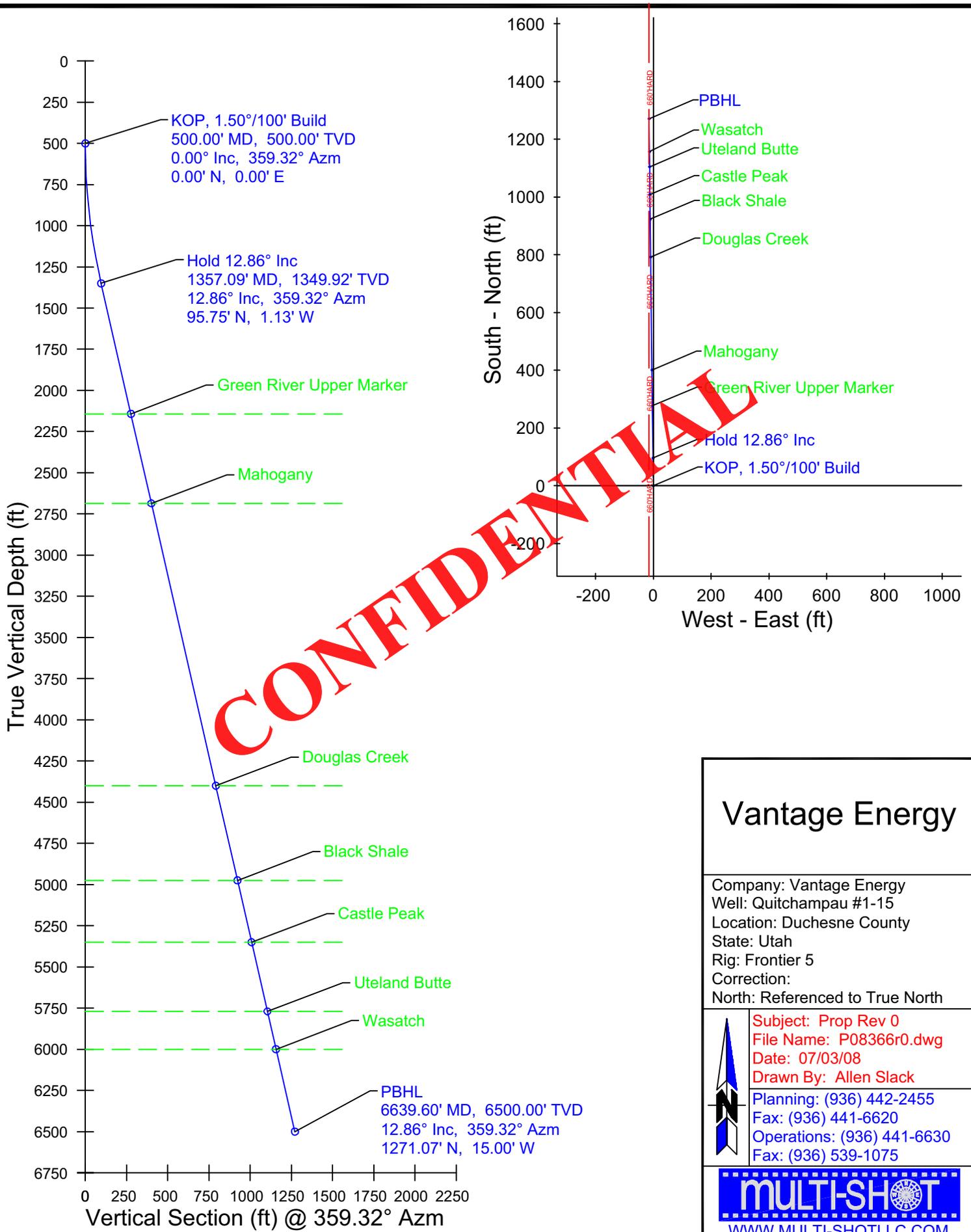
Michael L.
Coulthard

Digitally signed by Michael L. Coulthard
DN: cn=Michael L. Coulthard, o=Bureau of Land
Management, ou=Branch of Minerals,
email=Michael_Coulthard@blm.gov, c=US
Date: 2012.03.30 11:26:51 -06'00'

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

MCoulthard:mc:3-30-12

RECEIVED: March 30, 2012



Vantage Energy

Company: Vantage Energy
 Well: Quitchampau #1-15
 Location: Duchesne County
 State: Utah
 Rig: Frontier 5
 Correction:
 North: Referenced to True North

Subject: Prop Rev 0
 File Name: P08366r0.dwg
 Date: 07/03/08
 Drawn By: Allen Slack

Planning: (936) 442-2455
 Fax: (936) 441-6620
 Operations: (936) 441-6630
 Fax: (936) 539-1075

MULTI-SHOT
 WWW.MULTI-SHOTLLC.COM

The customer should only rely on this document after independently verifying all paths, targets, coordinates, lease and hard lines represented. Any decisions made or wells drilled utilizing this or any other information supplied by Multi-Shot, LLC are at the sole risk and responsibility of the customer. Multi-Shot, LLC is not responsible for the accuracy of this schematic or the information contained herein.

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:

3160

(UT-922)

March 30, 2012

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2012 Plan of Development Sowers Canyon Unit,
Duchesne County, Utah.

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		BHL Sec 15 T06S R06W 1980 FSL 0660 FWL

We have no objections to permitting the well at this time.

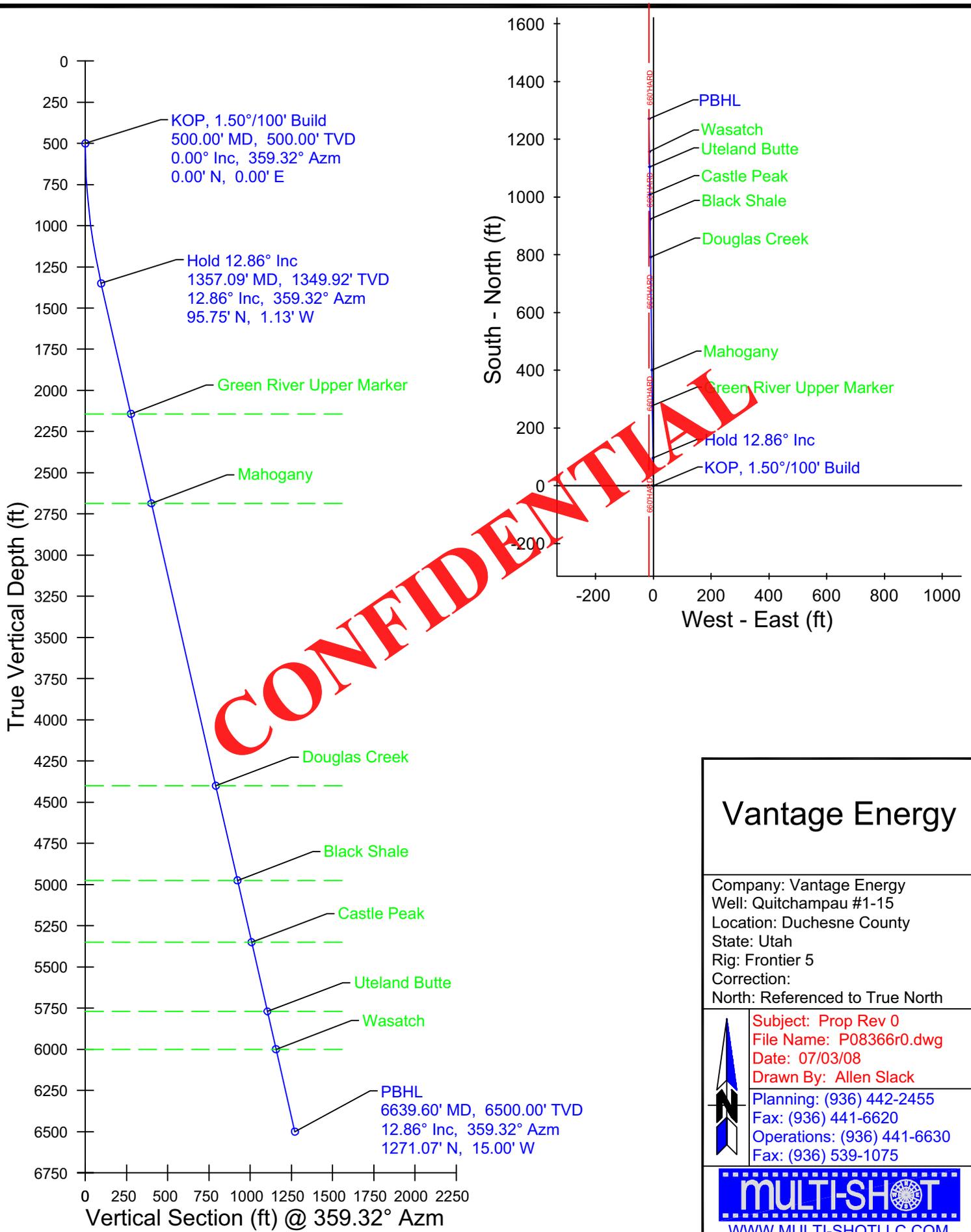
**Michael L.
Coulthard**

Digitally signed by Michael L. Coulthard
DN: cn=Michael L. Coulthard, o=Bureau of Land
Management, ou=Branch of Minerals,
email=Michael_Coulthard@blm.gov, c=US
Date: 2012.03.30 11:26:51 -06'00'

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

MCoulthard:mc:3-30-12

RECEIVED: March 30, 2012



Vantage Energy

Company: Vantage Energy
 Well: Quitchampau #1-15
 Location: Duchesne County
 State: Utah
 Rig: Frontier 5
 Correction:
 North: Referenced to True North

Subject: Prop Rev 0
File Name: P08366r0.dwg
Date: 07/03/08
Drawn By: Allen Slack

Planning: (936) 442-2455
 Fax: (936) 441-6620
 Operations: (936) 441-6630
 Fax: (936) 539-1075

MULTI-SHOT
 WWW.MULTI-SHOTLLC.COM

The customer should only rely on this document after independently verifying all paths, targets, coordinates, lease and hard lines represented. Any decisions made or wells drilled utilizing this or any other information supplied by Multi-Shot, LLC are at the sole risk and responsibility of the customer. Multi-Shot, LLC is not responsible for the accuracy of this schematic or the information contained herein.

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 3/26/2012

API NO. ASSIGNED: 43013513300000

WELL NAME: Quitchampau 1-15

OPERATOR: VANTAGE ENERGY UINTA LLC (N3295)

PHONE NUMBER: 303 820-4480

CONTACT: David F. Banko

PROPOSED LOCATION: SWSW 15 060S 060W

Permit Tech Review:

SURFACE: 0709 FSL 0675 FWL

Engineering Review:

BOTTOM: 1980 FSL 0660 FWL

Geology Review:

COUNTY: DUCHESNE

LATITUDE: 39.95442

LONGITUDE: -110.55293

UTM SURF EASTINGS: 538187.00

NORTHINGS: 4422794.00

FIELD NAME: WILDCAT

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU78212

PROPOSED PRODUCING FORMATION(S): WASATCH

SURFACE OWNER: 1 - Federal

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

- PLAT
- Bond: FEDERAL - UTB000288
- Potash
- Oil Shale 190-5
- Oil Shale 190-3
- Oil Shale 190-13
- Water Permit: 49-1501
- RDCC Review:
- Fee Surface Agreement
- Intent to Commingle

Commingling Approved

LOCATION AND SITING:

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

Comments: Presite Completed

Stipulations: 4 - Federal Approval - dmason
15 - Directional - dmason
23 - Spacing - dmason



GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: Quitchampau 1-15

API Well Number: 43013513300000

Lease Number: UTU78212

Surface Owner: FEDERAL

Approval Date: 4/4/2012

Issued to:

VANTAGE ENERGY UINTA LLC, 116 Inverness Drive East, Ste 107, Englewood , CO 80112

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 R649-3-11. 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:

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

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

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.

Notification Requirements:

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

- Within 24 hours following the spudding of the well - contact Carol Daniels at 801-538-5284

(please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website

at <http://oilgas.ogm.utah.gov>

Reporting Requirements:

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

- Entity Action Form (Form 6) - due within 5 days of spudding the well
- Monthly Status Report (Form 9) - due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) - due prior to implementation
- Written Notice of Emergency Changes (Form 9) - due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) - due prior to implementation
- Report of Water Encountered (Form 7) - due within 30 days after completion
- Well Completion Report (Form 8) - due within 30 days after completion or plugging

Approved By:



For John Rogers
Associate Director, Oil & Gas

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
5. LEASE DESIGNATION AND SERIAL NUMBER: UTU78212	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
7. UNIT or CA AGREEMENT NAME: SOWERS CANYON	
8. WELL NAME and NUMBER: QUITCHAMPAU 1-15	
9. API NUMBER: 43013513300000	
9. FIELD and POOL or WILDCAT: WILDCAT	
COUNTY: DUCHESNE	
STATE: UTAH	

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL Gas Well	
2. NAME OF OPERATOR: VANTAGE ENERGY UINTA LLC	
3. ADDRESS OF OPERATOR: 116 Inverness Drive East, Ste 107 , Englewood , CO, 80112	PHONE NUMBER: 303 386-8600 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0709 FSL 0675 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 15 Township: 06.0S Range: 06.0W Meridian: U	

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: 3/28/2013	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input checked="" type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

Vantage Energy Uinta LLC is requesting an extension to the Application for Permit to Drill for the above referenced well for the maximum amount of time possible. Thank you.

Approved by the Utah Division of Oil, Gas and Mining

Date: April 01, 2013

By:

NAME (PLEASE PRINT) Andrea Gross	PHONE NUMBER 303 941-0506	TITLE Project Coordinator
SIGNATURE N/A	DATE 3/28/2013	



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43013513300000

API: 43013513300000

Well Name: QUITCHAMPAU 1-15

Location: 0709 FSL 0675 FWL QTR SWSW SEC 15 TWNP 060S RNG 060W MER U

Company Permit Issued to: VANTAGE ENERGY UINTA LLC

Date Original Permit Issued: 4/4/2012

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

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

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

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

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

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

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

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

Signature: Andrea Gross

Date: 3/28/2013

Title: Project Coordinator Representing: VANTAGE ENERGY UINTA LLC

Vantage Energy Uinta LLC
Quitchampau 1-15
 SHL: 709' FSL 675' FWL (SW/4 SW/4)
 BHL: 1,980' FSL 660' FWL (NW/4 SW/4)
 Sec. 15 T6S R6W
 Duchesne County, Utah
 Federal Mineral Lease: UTU78212
 Sowers Canyon Unit UTU86334X

DRILLING PROGRAM

(All Drilling Procedures will be followed as Per Onshore Orders No. 1 and No. 2)

This Application for Permit to Drill (APD) was initially filed under the Notice of Staking (NOS) process as stated per Onshore Order No. 1 (OSO #1) and supporting Bureau of Land Management (BLM) documents. The process was changed to the "APD" process per OSO #1. This document was prepared using language and requirements consistent with those previously approved by BLM for nearby wells. This APD process included an onsite meeting with BLM representatives and EOG Resources, Inc. (EOG), at which time the specific concerns of EOG and BLM were discussed. Best efforts have been made to address specific concerns of the BLM representatives.

Vantage Energy Uinta LLC (Vantage) acquired the mineral lease and Vantage will be responsible for the compliance with all of the lease terms and conditions for that portion of the lease associated with the APD as originally submitted by EOG.

Please contact Mr. John Moran, Drilling Operations with Vantage at 303-386-8610, if there are any questions or concerns regarding this Drilling Program.

Vantage respectfully requests that all information regarding this well be kept confidential.

A) GEOLOGIC MARKERS

Anticipated tops of geologic markers are indicated in **Table 1**

Table 1 Estimated Tops of Geologic Markers

Formation	Vertical Depth	Measured Depth	Subsea Depth	Description
Green River	Surface	Surface	8,784'	Sandstone/siltstone/shale
Green River Upper Marker	2,143'	2,171'	6,641'	Sand and Siltstone
Mahogany	2,686'	2,728'	6,098'	Oil Shale
Douglas Creek	4,400'	4,486'	4,384'	Sandstone/siltstone/shale
Black Shale	4,975'	5,075'	3,809'	Sandstone/siltstone/shale
Castle Peak	5,350'	5,460'	3,434'	Sandstone/siltstone/shale
Uteland Butte	5,770'	5,891'	3,014'	Carbonate/shale/sandstone
Wasatch	6,000'	6,127'	2,784'	Shale/sandstone
Total Depth	6,500'	6,640'	2,284'	TD ± 500' TVD into Wasatch

Surface Elevation: 8,772' (Ground) 8,786' (Est. KB). Proposed Total Depth: 6,640' / 6,500' (MD/TVD)

B) DEPTHS OF WATER AND MINERAL-BEARING ZONES

B) DEPTHS OF WATER AND MINERAL-BEARING ZONES

Potential water-bearing zones in the vicinity include the Wasatch and Green River formations (Robson and Banta, 1995. *Ground Water Atlas of the United States Segment 2*, Hydrologic Investigations Atlas 730-C, U.S. Geological Survey, Reston, VA). A review of data from the Utah Division of Water Rights indicated no permitted water wells within three miles of the proposed location. Utah Division of Oil, Gas, and Mining surface casing depth requirements will protect potential aquifers in the area.

The depths to potential water and/or mineral-bearing zones are indicated in **Table 2**.

Table 2: Principal Anticipated Water and Mineral-bearing Zones

Formation	Measured Depth	Subsea	Potential Contents
Green River	Surface	8,784'	Surface
Green River Upper Marker	2,171'	6,641'	Possible Water
Mahogany	2,728'	6,098'	Possible Water
Douglas Creek	4,486'	4,384'	Oil / Gas
Black Shale	5,075'	3,809'	Oil / Gas
Castle Peak	5,460'	3,434'	Oil / Gas
Uteland Butte	5,891'	3,014'	Oil / Gas
Wasatch	6,127'	2,784'	Oil / Gas

C) MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL EQUIPMENT

The maximum anticipated surface pressure for this well is calculated to be **1,430 psi**. Therefore, rules for a 2,000 psi rated BOP and choke manifold system are applicable. However, the typical rig inventory will consist of a 3,000 psi rated BOP and choke manifold. As such, the rig's BOP and choke manifold equipment will be tested to the standards for a 2,000 psi BOP system. A diagram of the proposed 2,000 psi rated BOP stack configuration is shown in **Fig. 1**.

BOPs and choke manifold will be installed and pressure tested before drilling out from under surface casing (subsequent pressure tests will be performed whenever pressure seals are broken) and then will be checked daily as to mechanical operating condition. BOPs will be pressure tested at least once every 30 days. The annular preventer, pipe rams, and blind rams will be activated on each trip and Operator will conduct weekly BOP drills with the rig crew.

Ram type preventers and related pressure control equipment will be pressure tested to rated working pressure of the stack assembly if a test plug is used. If a plug is not used, the stack assembly will be tested to the rated working pressure of the stack assembly or to 70% of the minimum internal yield of the casing, whichever is less. **Please see variance request at end of program for this section.**

Annular type preventers will be pressure tested to 50% of their rated working pressure. A Sundry Notice (Form 3160~5), along with a copy of BOP test report, shall be submitted to the BLM within 5 working days following the test. All casings strings will be pressure tested to 0.22psi/ft or 1,500psi, whichever is greater, not to exceed 70% of internal yield. **Please see variance request at end of program for this section.**

Casing shoe will be tested by drilling out from below the shoe and testing to the maximum expected mud weight as discussed in the mud program specifications below. Both manual and remote closing mechanisms will be installed on the BOP stack and will be readily available to the driller.

Figure 1: Pressure Control Schematic

Vantage Energy Uinta LLC

Quitchampau 1-15

SHL: 709' FSL 675' FWL (SW/4 SW/4)

BHL: 1,980' FSL 660' FWL (NW/4 SW/4)

Sec. 15 T6S R6W

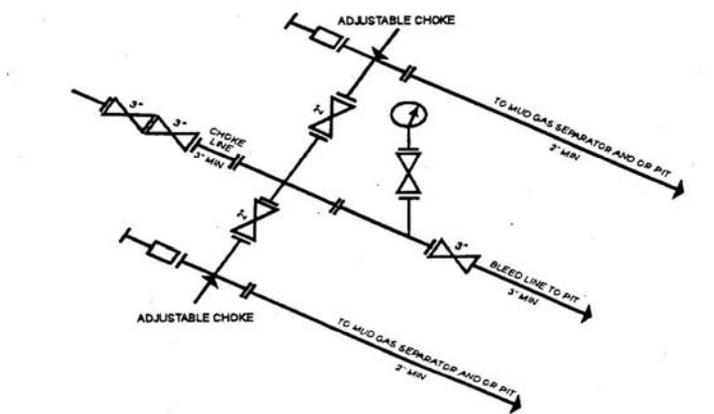
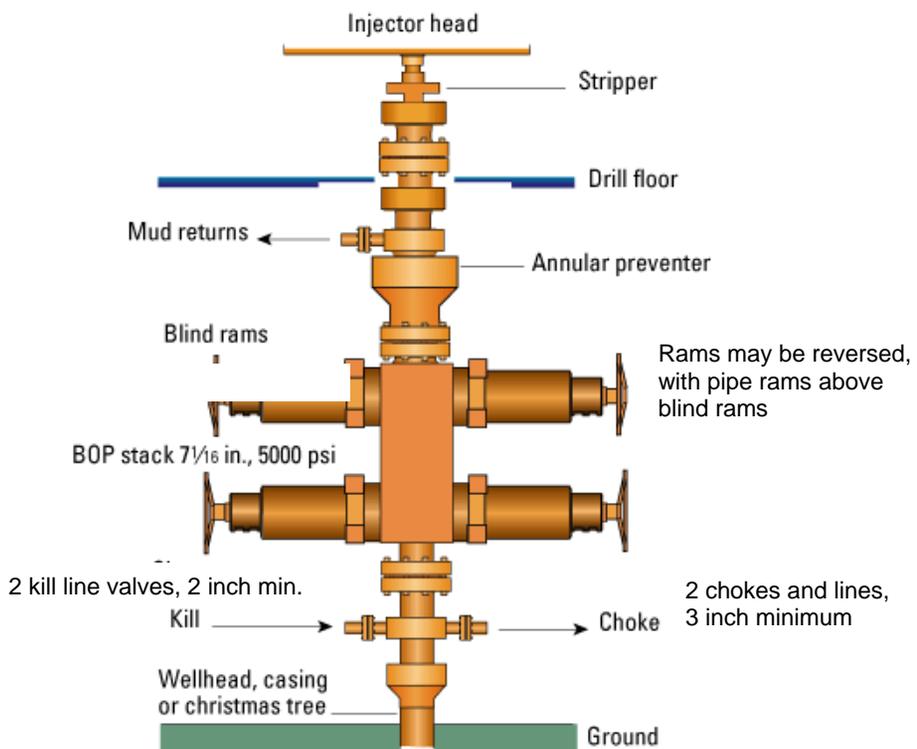
Duchesne County, Utah

Federal Mineral Lease: UTU78212

Sowers Canyon Unit UTU86334X

Generalized Setup for 2,000 psi Working Pressure System

Actual BOP Stack Used May Vary in Some Details



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

Installed BOP Stack Will Meet All Requirements of BLM Onshore Oil and Gas Order 2

Statement on Accumulator System and Location of Hydraulic Controls

The drilling rig has not yet been selected for this well. Selection will take place after approval of this application. Manual and/or hydraulic controls will be in compliance with *Onshore Oil and Gas Order No. 2* for 2,000 psi systems. Regardless of the rig selected, the rig's accumulator system shall have sufficient capacity to close all BOP's and retain 200 psi above pre-charge. The proposed pressure control equipment will meet or exceed standards specified in the Order.

D) CASING PROGRAM

Casing of quality equal to or better than that indicated in **Tables 3** and **4** will be used for this well. Actual casing used will be dependent on availability.

Table 3 Proposed Casing Program

Depth (MD)	Hole Diameter	Casing Diameter	Casing Weight and Grade
0 – ± 50'	20"	14"	Optional Conductor – Only if Required
0 – 350'	12 1/4"	8 5/8"	24# J55 ST&C, API New Pipe
0 – 6,640'	7 7/8"	5 1/2"	15.5# K55 LT&C, API New Pipe

Table 4: Proposed Casing Specifications and Design Safety Factors

Size	Collapse (psi)	Burst (psi)	Body Strength (1,000 lbs.)	Joint Strength (1,000 lbs.)	Thread	*Safety Factors		
						Burst Design (1.2)	Collapse Design (1.0)	Tension Design (1.4)
14"	NA – 0.219" wall structural and to seal shallow gravels to allow air drilling surface hole				Weld	NA	NA	NA
8 5/8" 24# J55	1,370	2,950	381	244	ST&C	1.42	6.27	4.17
5 1/2" 15.5# J55	4,040	4,810	248	217	LT&C	1.25	1.41	1.55

Safety Factor Calculation Assumptions:*Surface Casing:**

Burst Load: Assumes greater of MASP (maximum anticipated surface pressure) exposure during a worse case kick scenario while drilling at total depth, with mud/gas mixture whose gradient is 0.22 psi/ft. OR, minimum required casing test pressure.

MASP

$$\begin{aligned} \text{Load} &= (\text{Formation Gradient} - 0.22 \text{ psi/ft}) * \text{Total Depth, TVD} \\ &= (0.44 \text{ psi/ft} - 0.22 \text{ psi/ft}) * 6,500 \text{ ft.} \\ &= 1,430 \text{ psi} \end{aligned}$$

TEST PRESSURE

Load = Greater of 1500 psig *or* $0.70 * 2950 = 2065$ psig

SF Burst = 2,950 psi / 2,065 psi = 1.42

Collapse Load: Assumes worse case loading of evacuated casing during cementing process.

Cement density = 12.0 ppg

Load = $12.0 \text{ ppg} * 0.052 * 350 \text{ ft}$
 = 218.4 psi

SF Collapse = 1370 psi / 218.4 psi = 6.27

Tension Load: Assumes air weight at total depth + 50,000 lbs overpull design factor.

Load = $(24 \text{ lbs/ft} * 350 \text{ ft}) + 50,000 \text{ lbs overpull}$
 = 58,400 lbs

SF Tension = 244,000 lbs / 58,400 lbs = 4.17

Test Pressure =

Production Casing

Burst Load: Assumes maximum load applied during the hydraulic fracture stimulations. It is Vantage Energy's policy not to exceed 80% rating of the production casing during the stimulation treatment. The 80% rating factor will also be the casing test pressure.

Load = $4810 \text{ psi} * 0.80$
 = 3848 psi

SF Burst = 4810 psi / 3848 psi = 1.25

Collapse Load: Assumes worse case loading applied during the production cycle, with evacuated casing, and normally pressured formation gradient applied externally.

Load = $0.44 \text{ psi/ft} * 6500 \text{ ft}$
 = 2860 psi

SF Collapse = 4040 psi / 2860 psi = 1.41

Tension Load: Assumes buoyed weight of casing at total depth + 50,000 lbs overpull design factor.

Load = $[15.5 \text{ lbs/ft} * 6640 \text{ ft} * ((65.5 - 8.6) / 65.5)] + 50,000 \text{ lbs}$
 = 89,407 lbs + 50,000 lbs
 = 139,407 lbs

SF Tension = 217,000 lbs / 139,407 lbs = 1.55

E) CEMENT PROGRAM**Table 5: Proposed Cement Program**

Depth	Hole Diameter	Casing Diameter	Cement
0' – ± 50'	20"	14"	Optional structural conductor if required: Grout with approximately 4 cubic yards of redi-mix back to surface (includes 100% excess) TOC: Surface (Top-off per visual observation)
0' – 350'	12 1/4"	8 5/8"	<u>Single Slurry System (350' – Surface) + 40' Shoe Joint</u> 263 sks Class G + 2% CaCl ₂ + ¼ lb/sk celloflake. Density: 15.8 ppg Yield: 1.15 cuft/sk Water: 5.0 gal/sk Excess = 100% TOC: Surface (Top-off per visual observation)
0' - 6,640'	7 7/8"	5 1/2"	<u>Lead System (4,000' – 2,000')</u> 120 sks Type "V" + 16% Gel + 10 lbs/sk gilsonite + 3% Salt + ¼ lb/sk celloflake Density: 11.0 ppg Yield: 3.82 cuft/sk Water: 23.0 gal/sk *Excess: 30% <u>Tail System (6,640' – 4,000') + 40' Shoe Joint</u> 475 sks 50:50 (Class G:Poz) + 2% gel + 10% salt + ¼ lb/sk celloflake Density: 14.2 ppg Yield: 1.26 cuft/sk Water: 5.75 gal/sk *Excess: 30%

*Note: The production hole cement volume will be determined by the caliper log, using caliper volume + 10% excess factor.

F) MUD PROGRAM

The mud program for the proposed well is indicated in **Table 6**.

Table 6 Proposed Mud Program (See attached Halliburton mud program)

Interval (feet)	Mud Weight (lbs/gallon)	Viscosity (secs/qt)	Fluid Loss (ccs/30 min)	Mud Type
0 – ± 50'	NA	NA	NA	NA
Set optional 14" conductor with bucket rig				
50' - 350±	NA	NA	N/C	Air/Mist
Run/cement 8 5/8" surface casing				
350± - TD	8.5 – 8.6	28 - 38	< 20	KCL Water / PHPA / DAP
Run Logs – Run/cement 5 1/2" production casing				

Surface Hole Comments: Spud with “spudder rig” and air drill surface hole misting as may be required to assist with cuttings removal. Report any water encountered to the appropriate agencies. **Please see variance requests for this section.**

Production Hole Comments: Dump spud mud to reserve pit. Drill out surface casing with fresh water adding 6 ppb DAP (Diammonium Phosphate) for shale inhibition and corrosion control. Circulate the reserve pit and flocculate out drill solids. Use pre-hydrated gel and PHPA polymer mud sweeps to assist with hole cleaning. At approximately 4,000' “mud up” and “close in” the fluid system to a 2-3% KCL base fluid. Use PHPA PAC and lignite for filtration control. Maintain fluid system through potential production zones to TD. Should seepage losses be experienced, control with LCM sweeps consisting of calcium carbonate, sawdust, cedar fiber, or mica.

Sufficient mud materials will be maintained on location to adequately maintain mud properties and contain any well kicks. Monitoring equipment will be installed on site to detect changes in mud volume.

G) LOGGING, CORING, AND TESTING PROGRAM

The proposed logging program is indicated in **Table 7**.

Table 7 Proposed Logging Program

Log Suites	Depth Range	Remarks
DIL-SP-LD-CN	Surface Casing to TD	Standard "triple combo" equivalent with resistivity-spontaneous potential, litho-density, compensated neutron, gamma ray, and caliper Will pull GR to surface
Dipole Sonic	± 4,000' to TD	Optional – Operator's discretion Rock property data
Rotary Sidewall Cores	± 4,000' to TD	Optional – Operator's discretion PP/Lithology data (perm-porosity)

No coring or drill stem tests are planned. Mud logging unit will be operational from 200 feet above the Douglas Creek through total depth. Cuttings will be sampled every 20-30 feet.

Prospective zones from the Douglas Creek formation through total depth will be perforated, tested, and potentially acid-washed. It is anticipated that multi-stage hydraulic fracture stimulations of the reservoir will be required.

H) ANTICIPATED PRESSURES AND HAZARDS

No abnormal pressures are anticipated. Pressure gradient in the Green River and Wasatch sequence is expected to be sub-normal pressured to less than 0.44 psi/ft.

Estimated BHP Douglas Creek (4,400')	1,936 psi
Estimated BHP Wasatch (6,000')	2,640 psi
Estimated BHP Total Depth (6,500')	2,860 psi
Hydrostatic head of gas/mud	0.22 psi/ft.
Maximum design surface pressure	0.44 – 0.22 psi/ft x 6,500 ft = 1,430 psi

No H2S zones are anticipated. No abnormal lost circulation zones are anticipated. The proposed well is a southern extension test of development drilling being conducted by Berry Petroleum in T5S-R3W. In addition, the proposed well is located on a previously drilled well site, the Tabby Canyon Unit No. 1, which was drilled to a total depth of 6,946' in January 1971, by Brinkerhoff Drilling Company. There were no abnormal hazards reported during the drilling of this well.

I) DIRECTIONAL PROGRAM (See attached directional plan by Multi-Shot LLC)

The Quitchampau 1-15 will be drilled as a directional well, with a bottom hole located in the center of NE¼ SW¼ Section 15, T6S-R6W. The vertical section distance will be a planned distance of 1,271'. The bottom hole will be landed within a 50' radius target tolerance. The directional plan will consist of a "build-and-hold" profile, with a planned KOP of 500', a build rate of 1.5°/100', and a final hold inclination of 12.9 degrees.

The purpose of the directional well is twofold: 1) To gain distance away from the old wellbore, Tabby Canyon Unit No. 1, which was drilled in January 1971, to insure communication to this old wellbore does not occur during the stimulation treatments planned during the completion phase, and 2) to better position the well on a "perfect" 40-acre drainage pattern for future development considerations.

J) OTHER INFORMATION

Contact Information and Personnel:

Mailing Address

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Geologist: Andrea Steinle

Office Direct: 303-386-8632

Fax Direct: 303-386-8732

Mobile: 303-408-0994

E-Mail: Andrea.Steinle@VantageEnergy.com

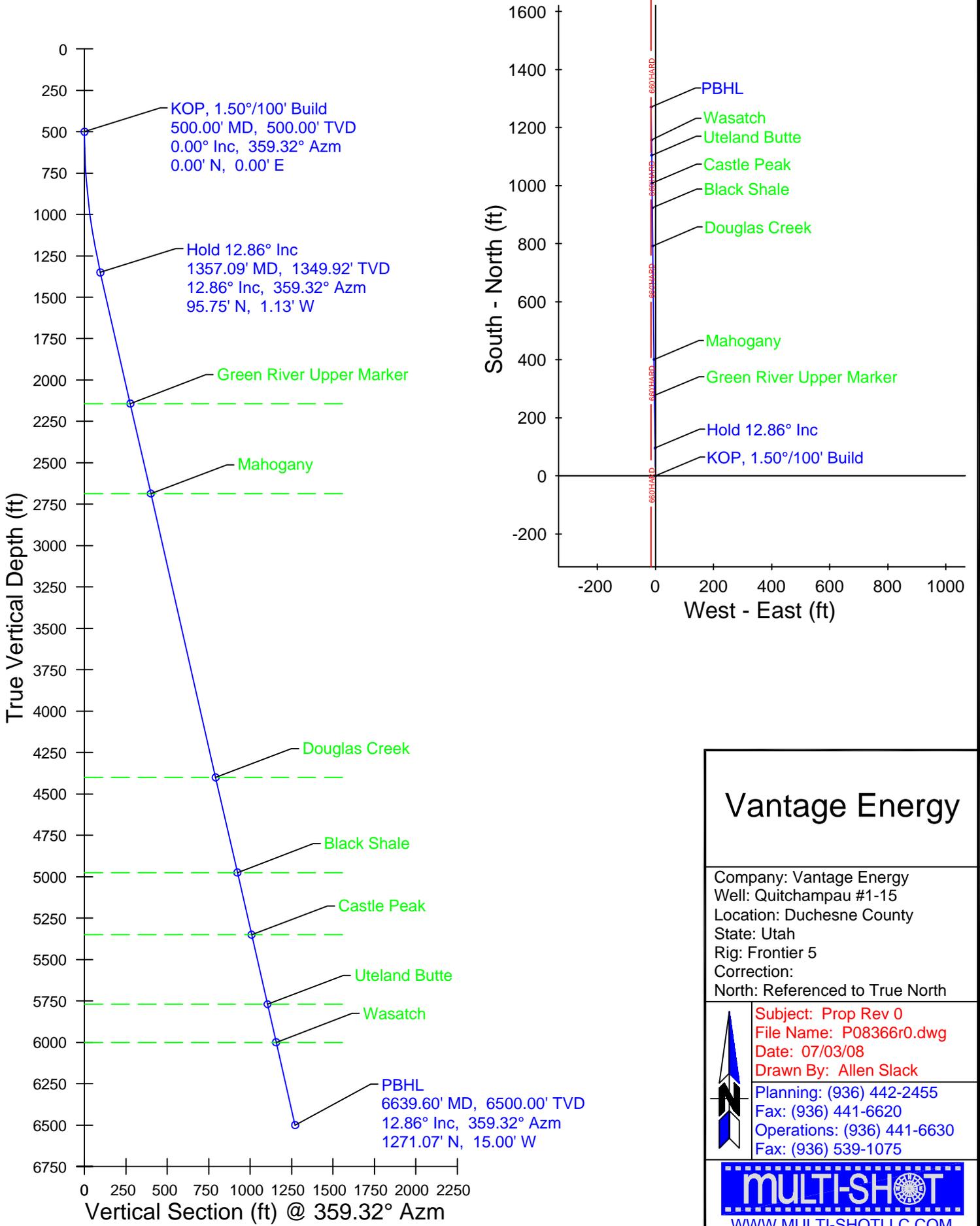
Landman: Michael Holland

Office Direct: 303-386-8638

Fax Direct: 303-386-8738

Mobile: 303-396-3443

E-Mail: Michael.Holland@VantageEnergy.com



Vantage Energy

Company: Vantage Energy
 Well: Quitchampau #1-15
 Location: Duchesne County
 State: Utah
 Rig: Frontier 5
 Correction:
 North: Referenced to True North

Subject: Prop Rev 0
File Name: P08366r0.dwg
Date: 07/03/08
Drawn By: Allen Slack

Planning: (936) 442-2455
 Fax: (936) 441-6620
 Operations: (936) 441-6630
 Fax: (936) 539-1075

MULTI-SHOT
 WWW.MULTI-SHOTLLC.COM

The customer should only rely on this document after independently verifying all paths, targets, coordinates, lease and hard lines represented. Any decisions made or wells drilled utilizing this or any other information supplied by Multi-Shot, LLC are at the sole risk and responsibility of the customer. Multi-Shot, LLC is not responsible for the accuracy of this schematic or the information contained herein.

Job Number: P08-366
 Company: Vantage Energy
 Lease/Well: Quitchampau #1-15
 Location: Duchesne County
 Rig Name: Frontier 5
 RKB: 12'
 G.L. or M.S.L.: 8772'

State/Country: Utah
 Declination:
 Grid: Referenced to True North
 File name: F:\WELLPL-1\2008\08360\SIP08366\08366.SVY
 Date/Time: 03-Jul-08 / 17:08
 Curve Name: Prop Rev 0



WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 359.32
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
KOP, 1.50°/100' Build									
500.00	.00	359.32	500.00	.00	.00	.00	.00	.00	.00
600.00	1.50	359.32	599.99	1.31	-.02	1.31	1.31	359.32	1.50
700.00	3.00	359.32	699.91	5.23	-.06	5.23	5.23	359.32	1.50
800.00	4.50	359.32	799.69	11.77	-.14	11.77	11.77	359.32	1.50
900.00	6.00	359.32	899.27	20.92	-.25	20.92	20.92	359.32	1.50
1000.00	7.50	359.32	998.57	32.68	-.39	32.68	32.68	359.32	1.50
1100.00	9.00	359.32	1097.54	47.02	-.55	47.03	47.03	359.32	1.50
1200.00	10.50	359.32	1196.09	63.96	-.75	63.96	63.96	359.32	1.50
1300.00	12.00	359.32	1294.16	83.46	-.98	83.47	83.47	359.32	1.50
Hold 12.86° Inc									
1357.09	12.86	359.32	1349.92	95.75	-1.13	95.76	95.76	359.32	1.50
Green River Upper Marker									
2170.57	12.86	359.32	2143.00	276.74	-3.27	276.76	276.76	359.32	.00
Mahogany									
2727.53	12.86	359.32	2686.00	400.66	-4.73	400.69	400.69	359.32	.00
Douglas Creek									
4485.60	12.86	359.32	4400.00	791.82	-9.34	791.88	791.88	359.32	.00
Black Shale									
5075.39	12.86	359.32	4975.00	923.04	-10.89	923.11	923.11	359.32	.00

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
Castle Peak									
5460.03	12.86	359.32	5350.00	1008.62	-11.90	1008.69	1008.69	359.32	.00
Uteland Butte									
5890.83	12.86	359.32	5770.00	1104.47	-13.03	1104.55	1104.55	359.32	.00
Wasatch									
6126.75	12.86	359.32	6000.00	1156.96	-13.65	1157.04	1157.04	359.32	.00
PBHL									
6639.60	12.86	359.32	6500.00	1271.07	-15.00	1271.16	1271.16	359.32	.00

T6S, R6W, U.S.B.&M.

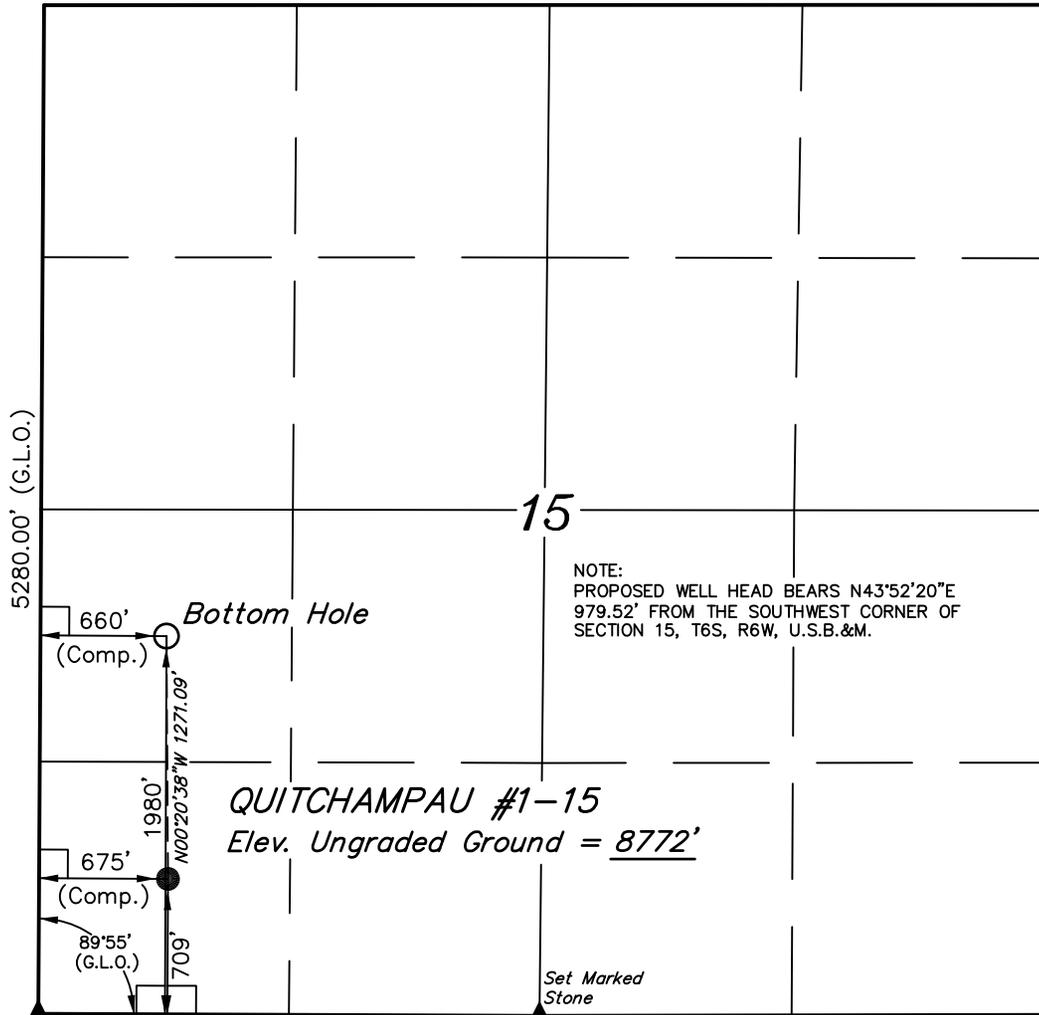
S89°59'W - 5297.16' (G.L.O.)

Vantage Energy Uinta LLC

Well location, QUITCHAMPAU #1-15, located as shown in the SW 1/4 SW 1/4 of Section 15, T6S, R6W, U.S.B.&M. Duchesne County, Utah.

BASIS OF ELEVATION

BENCH MARK (SOWERS) LOCATED IN THE SE 1/4 OF SECTION 36, T6S, R6W, U.S.B.&M. TAKEN FROM THE LANCE CANYON QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 8223 FEET.



N00°01'W - 5280.00' (G.L.O.)

NOTE:
PROPOSED WELL HEAD BEARS N43°52'20"E
979.52' FROM THE SOUTHWEST CORNER OF
SECTION 15, T6S, R6W, U.S.B.&M.

QUITCHAMPAU #1-15
Elev. Ungraded Ground = 8772'

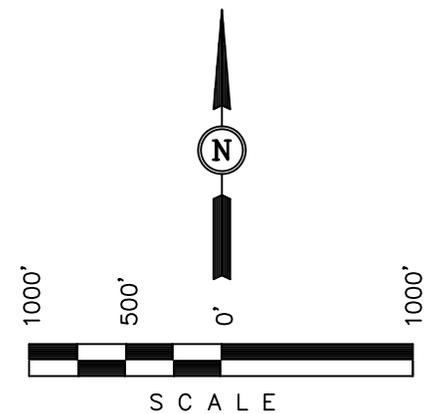
Set Marked Stone

Set Marked Stone N89°45'30"W - 2625.40' (Meas.)

S89°53'W - 2641.32' (G.L.O.)

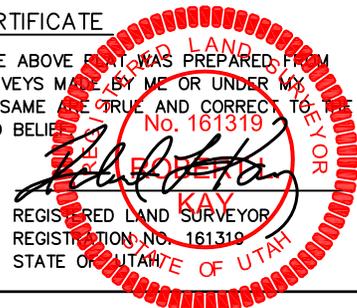
BASIS OF BEARINGS

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.



REVISED: 06-25-08 C.G.

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

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

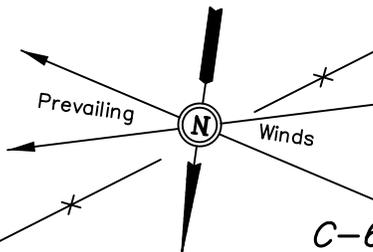
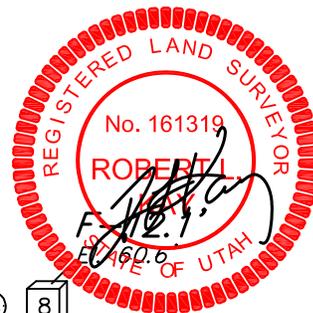
AUTONOMOUS NAD 83 (TARGET BOTTOM HOLE)	AUTONOMOUS NAD 83 (SURFACE LOCATION)
LATITUDE = 39°57'28.89" (39.958025)	LATITUDE = 39°57'16.33" (39.954536)
LONGITUDE = 110°33'10.31" (110.552864)	LONGITUDE = 110°33'10.20" (110.552833)
AUTONOMOUS NAD 27 (TARGET BOTTOM HOLE)	AUTONOMOUS NAD 27 (SURFACE LOCATION)
LATITUDE = 39°57'29.03" (39.958064)	LATITUDE = 39°57'16.47" (39.954575)
LONGITUDE = 110°33'07.75" (110.552153)	LONGITUDE = 110°33'07.64" (110.552122)

SCALE 1" = 1000'	DATE SURVEYED: 05-24-05	DATE DRAWN: 05-31-05
PARTY J.F. P.J. C.G.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE Vantage Energy Uinta LLC	

Vantage Energy Uinta LLC

LOCATION LAYOUT FOR

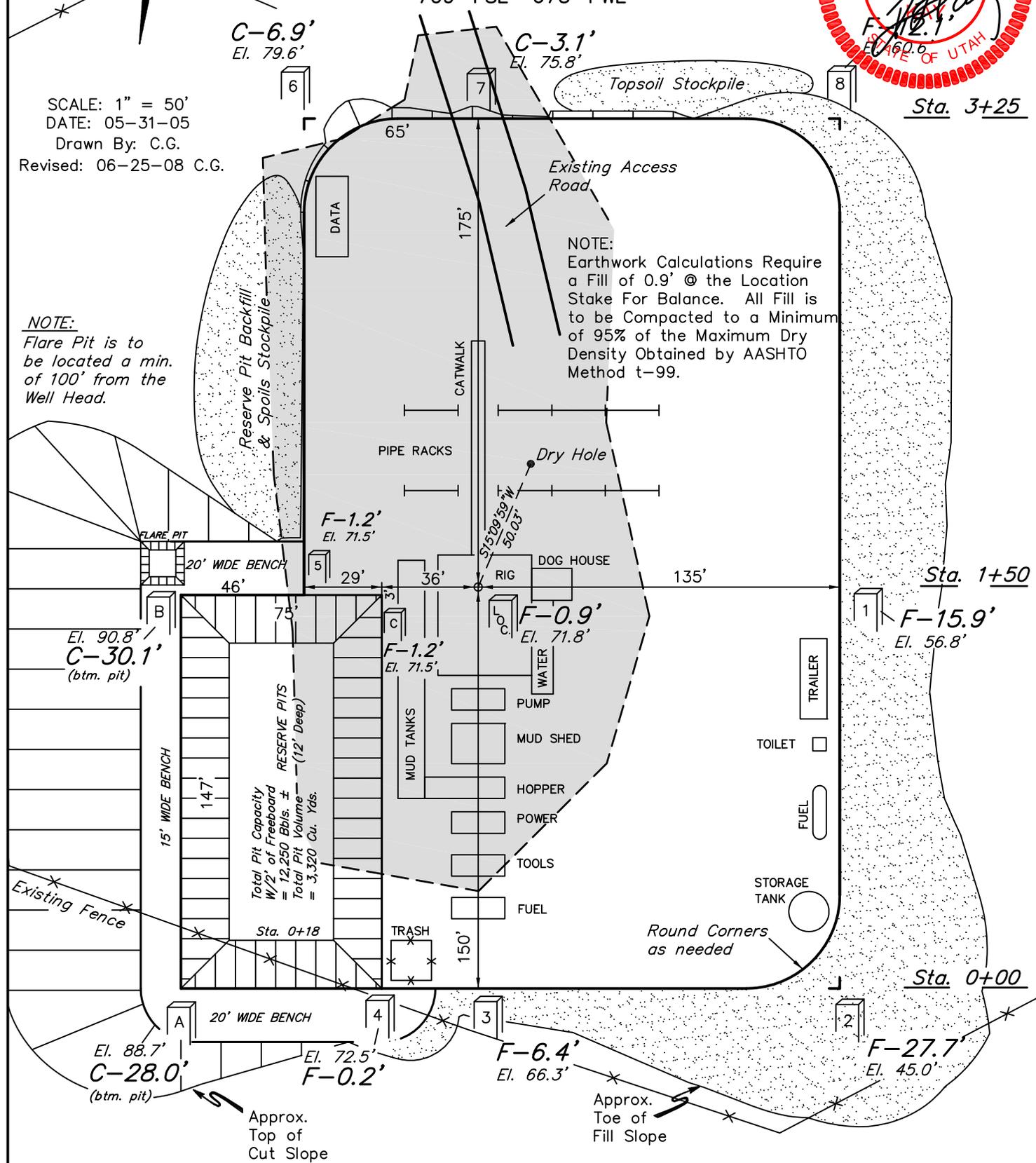
QUITCHAMPAU #1-15
SECTION 15, T6S, R6W, U.S.B.&M.
709' FSL 675' FWL



SCALE: 1" = 50'
DATE: 05-31-05
Drawn By: C.G.
Revised: 06-25-08 C.G.

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

NOTE:
Earthwork Calculations Require a Fill of 0.9' @ the Location Stake For Balance. All Fill is to be Compacted to a Minimum of 95% of the Maximum Dry Density Obtained by AASHTO Method t-99.



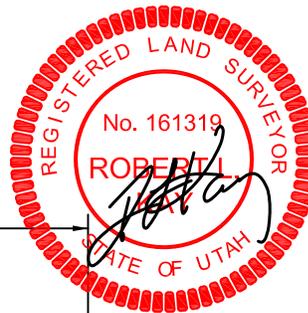
Elev. Ungraded Ground at Location Stake = 8771.8'
Elev. Graded Ground at Location Stake = 8772.7'

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

Vantage Energy Uinta LLC

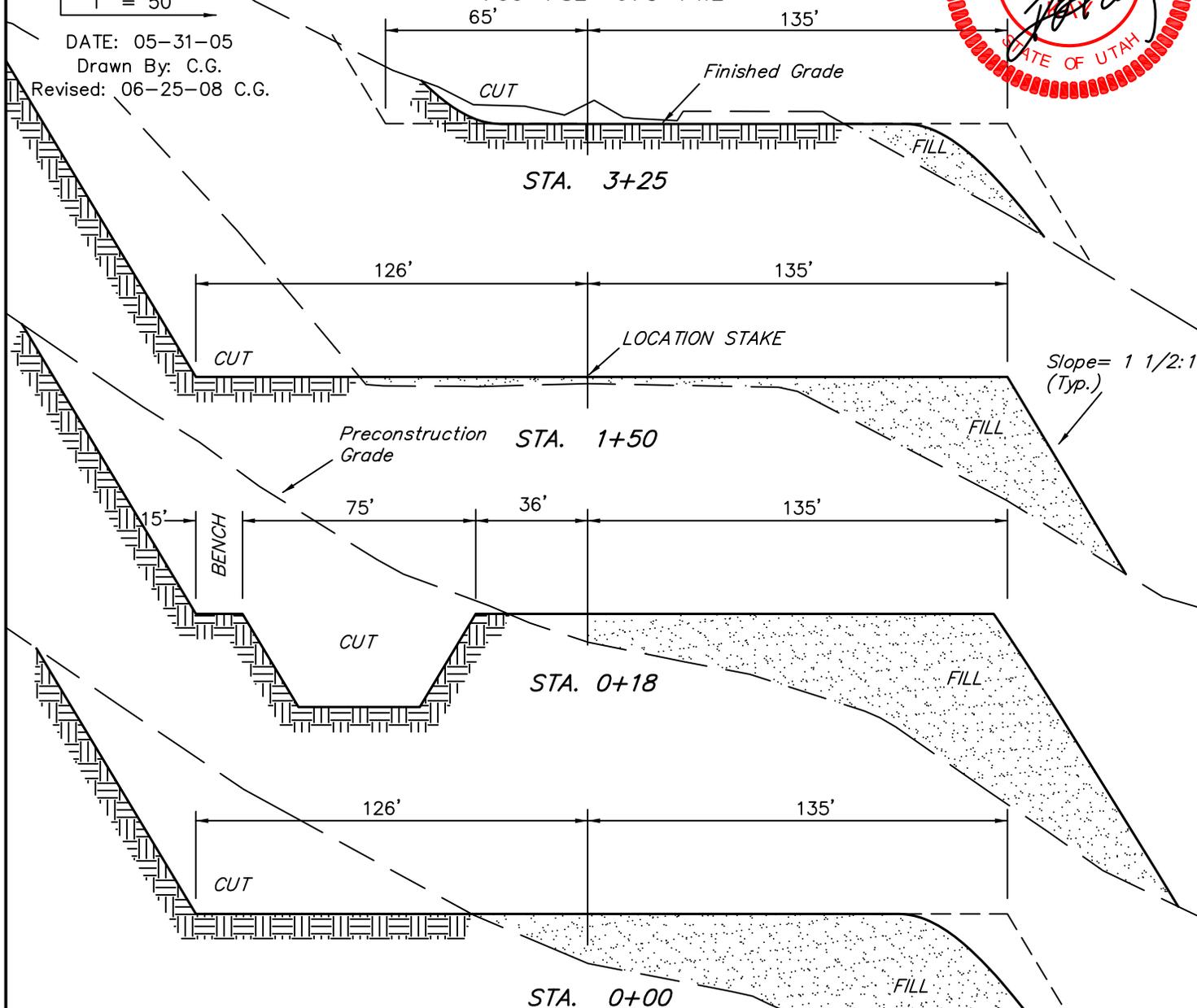
TYPICAL CROSS SECTIONS FOR

QUITCHAMPAU #1-15
SECTION 15, T6S, R6W, U.S.B.&M.
709' FSL 675' FWL



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

DATE: 05-31-05
Drawn By: C.G.
Revised: 06-25-08 C.G.



* NOTE:
FILL QUANTITY INCLUDES
5% FOR COMPACTION

APPROXIMATE YARDAGES

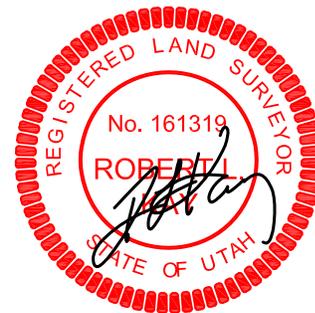
(6") Topsoil Stripping	=	2,300 Cu. Yds.
Remaining Location	=	19,700 Cu. Yds.
TOTAL CUT	=	22,000 CU.YDS.
FILL	=	18,040 CU.YDS.

EXCESS MATERIAL	=	3,960 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	=	3,960 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	=	0 Cu. Yds.

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

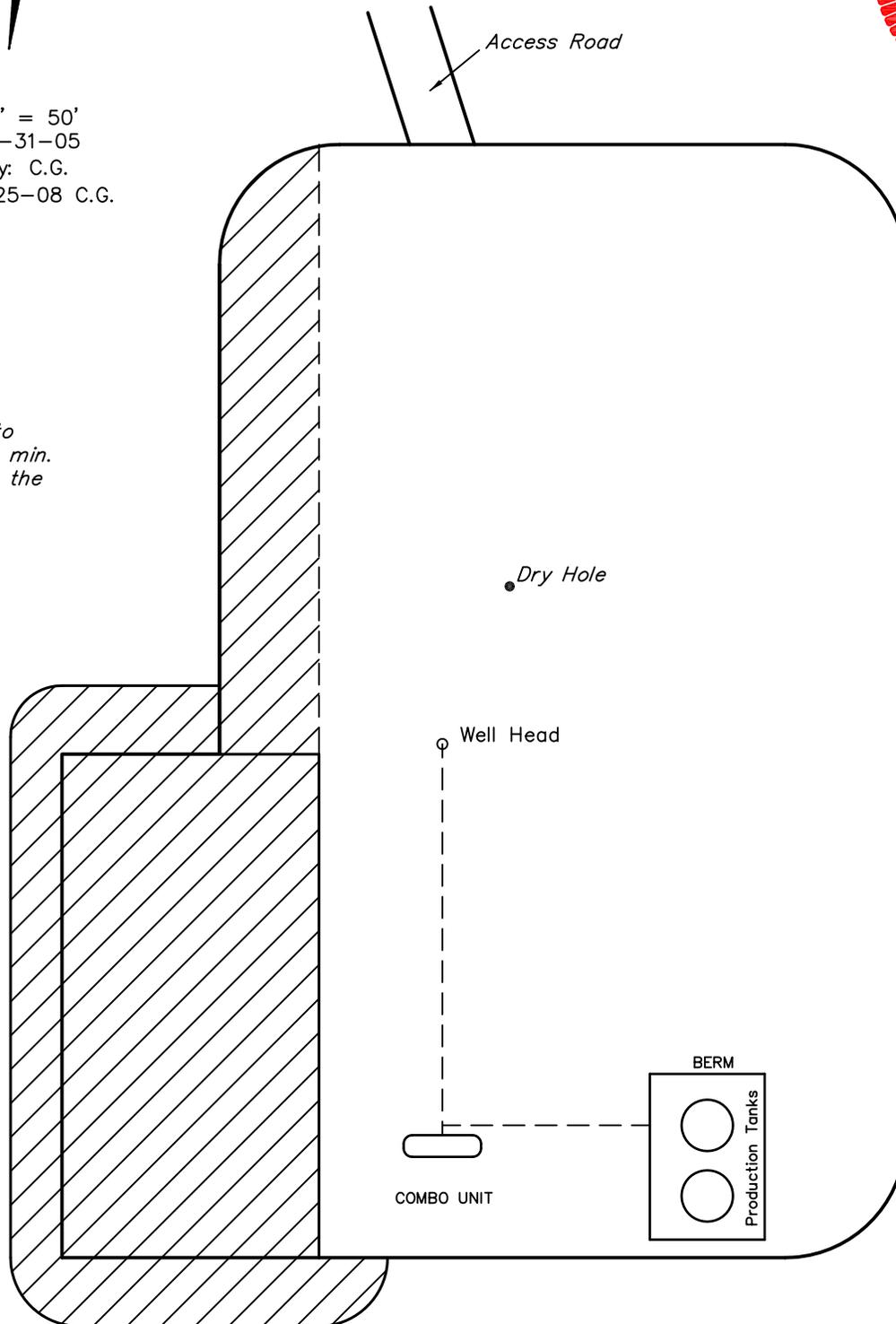
Vantage Energy Uinta LLC
PRODUCTION FACILITY LAYOUT FOR

QUITCHAMPAU #1-15
SECTION 15, T6S, R6W, U.S.B.&M.
709' FSL 675' FWL



SCALE: 1" = 50'
DATE: 05-31-05
Drawn By: C.G.
Revised: 06-25-08 C.G.

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



 RE-HABED AREA

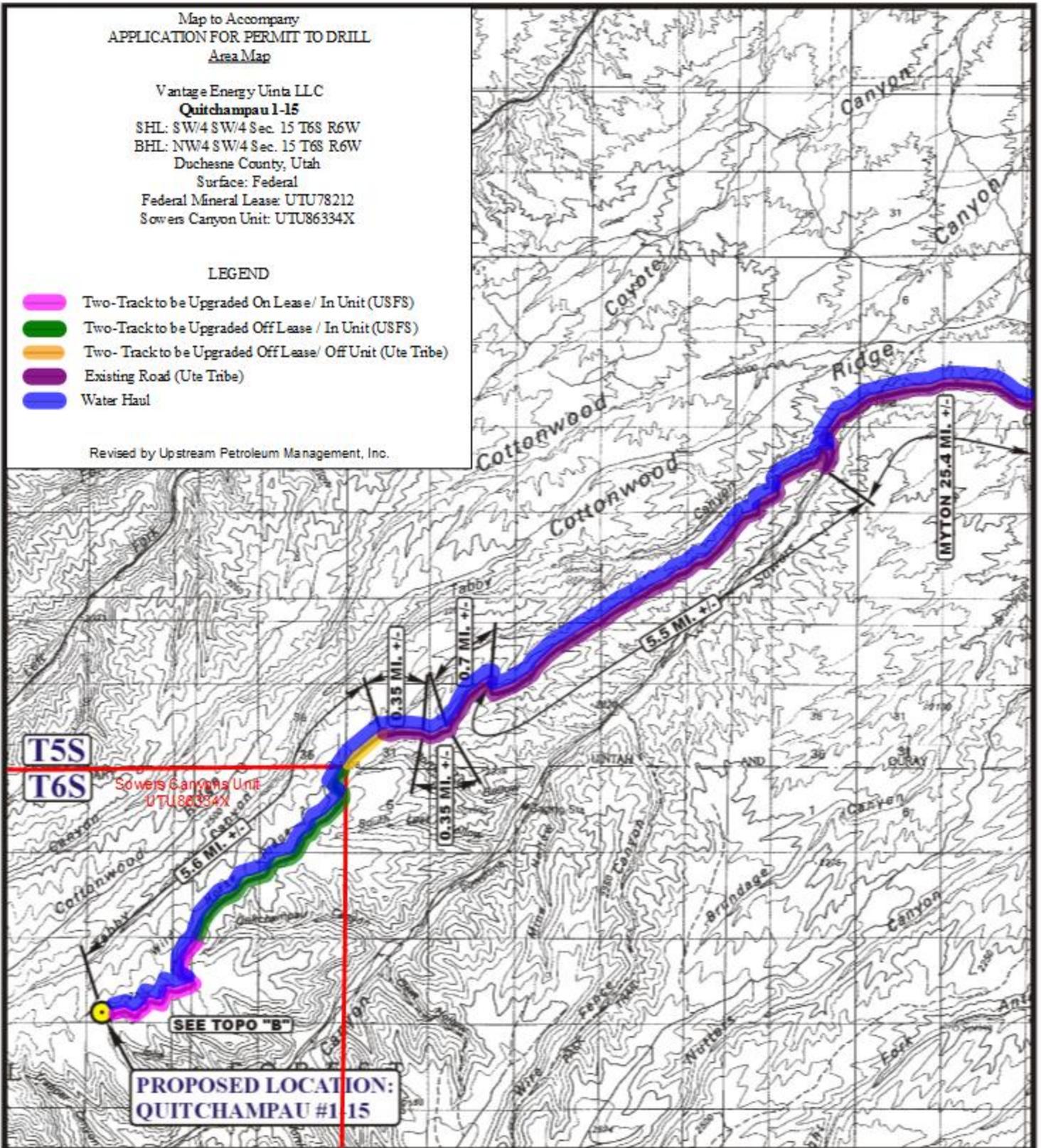
Map to Accompany
APPLICATION FOR PERMIT TO DRILL
Area Map

Vantage Energy Uinta LLC
Quitchampau #1-15
 SHL: SW/4 SW/4 Sec. 15 T6S R6W
 BHL: NW/4 SW/4 Sec. 15 T6S R6W
 Duchesne County, Utah
 Surface: Federal
 Federal Mineral Lease: UTU78212
 Sowers Canyon Unit: UTU86334X

LEGEND

- Two-Track to be Upgraded On Lease/ In Unit (USFS)
- Two-Track to be Upgraded Off Lease / In Unit (USFS)
- Two-Track to be Upgraded Off Lease/ Off Unit (Ute Tribe)
- Existing Road (Ute Tribe)
- Water Haul

Revised by Upstream Petroleum Management, Inc.



LEGEND:

- PROPOSED LOCATION

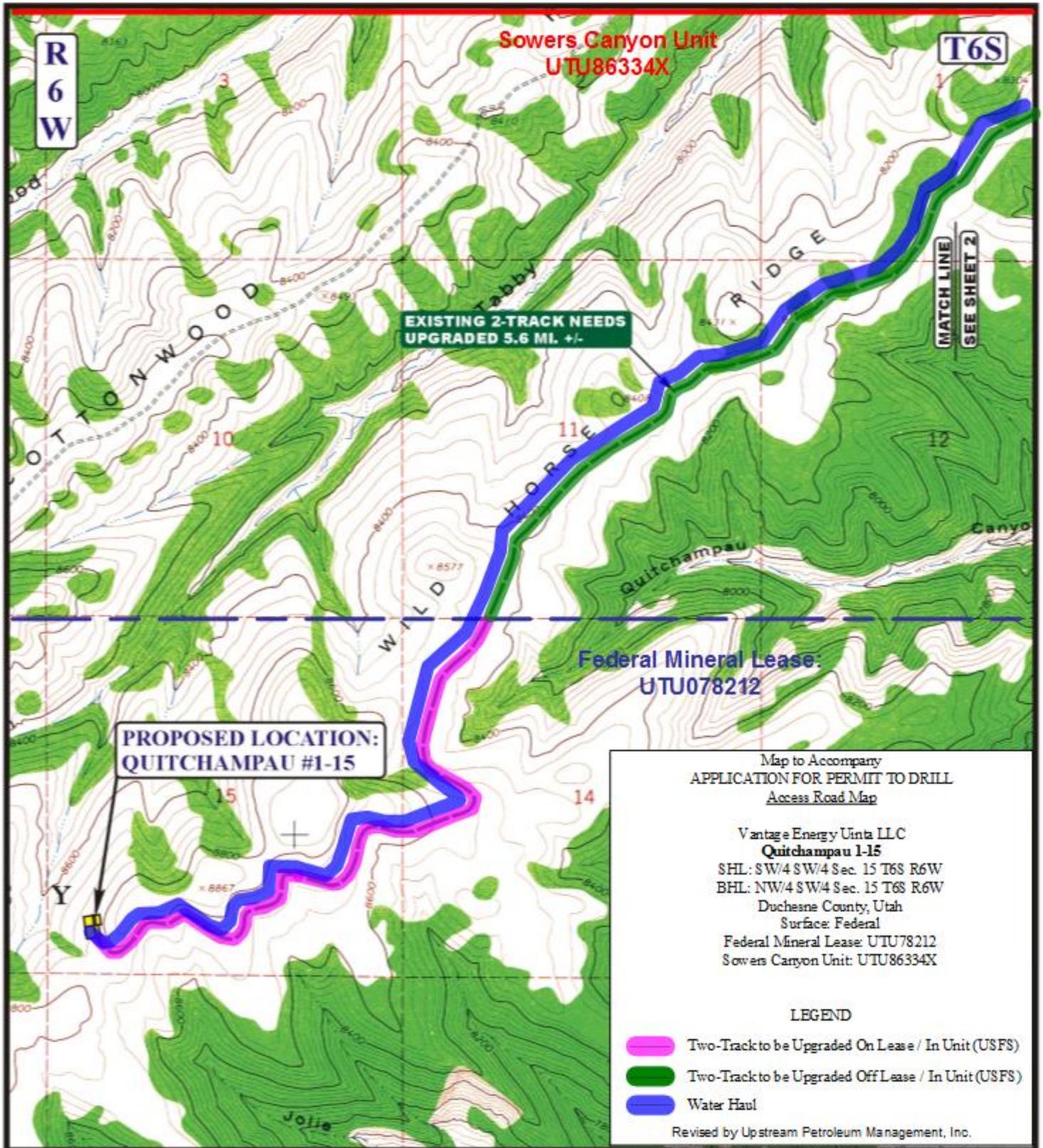


Vantage Energy Uinta LLC

QUITCHAMPAU #1-15
 SECTION 15, T6S, R6W, U.S.B.&M.
 709' FSL 675' FWL

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

TOPOGRAPHIC MAP	06	06	05	A TOPO
	MONTH	DAY	YEAR	
SCALE: 1:100,000	DRAWN BY: C.P.		REV: 06-26-08 S.L.	



LEGEND:

- EXISTING ROAD
- EXISTING 2-TRACK NEEDS UPGRADED



Vantage Energy Uinta LLC

QUITCHAMPAU #1-15
SECTION 15, T6S, R6W, U.S.B.&M.
709' FSL 675' FWL



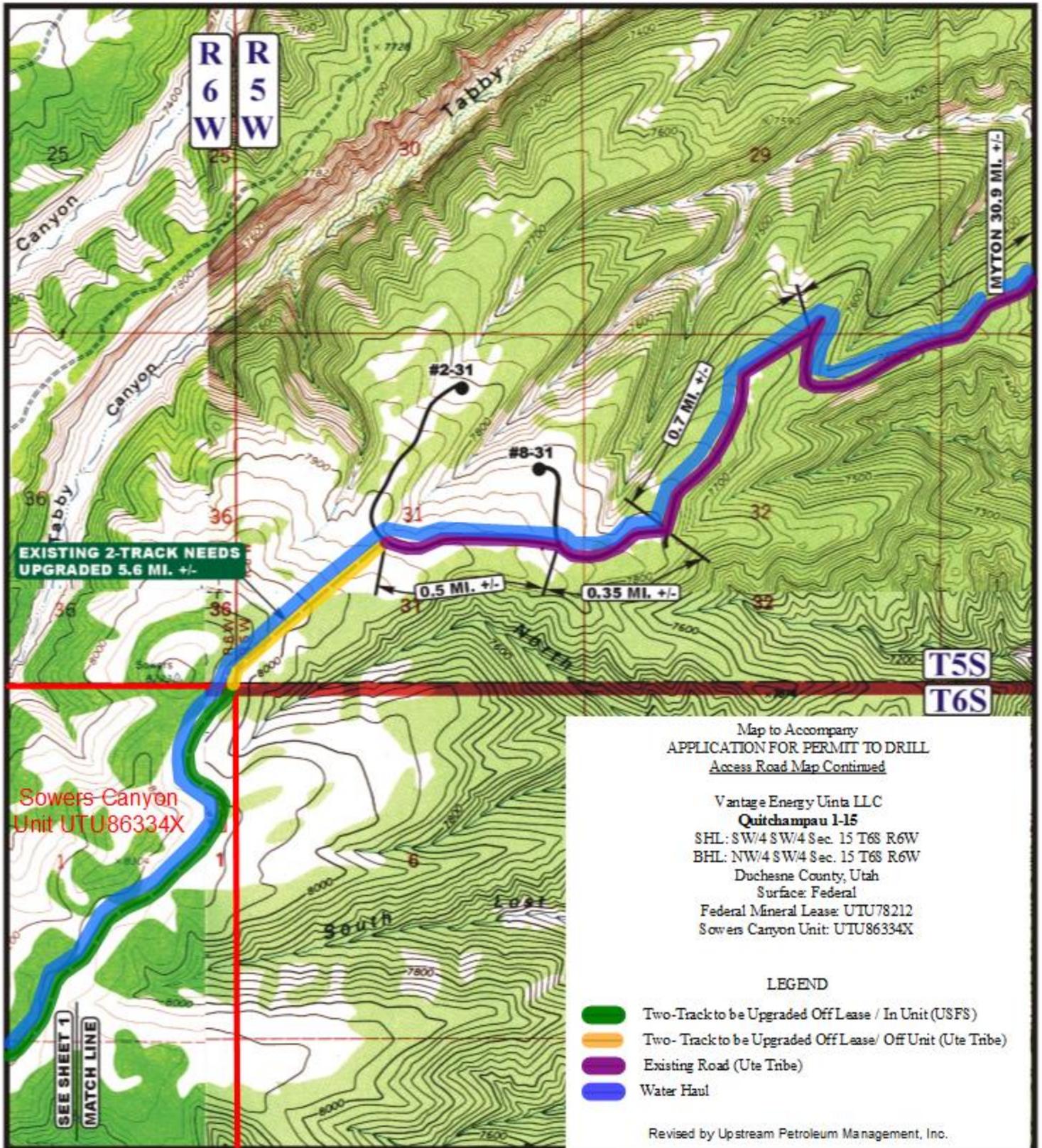
Uintah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
 (435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC
MAP

06 06 05
 MONTH DAY YEAR

B1
TOPO

SCALE: 1" = 2000' DRAWN BY: C.P. REV: 06-26-08 S.L.



EXISTING 2-TRACK NEEDS UPGRADED 5.6 MI. +/-

Sowers Canyon Unit UTU86334X

SEE SHEET 1
MATCH LINE

Map to Accompany
APPLICATION FOR PERMIT TO DRILL
Access Road Map Continued

Vantage Energy Uinta LLC
Quitchampau 1-15
SHL: SW/4 SW/4 Sec. 15 T6S R6W
BHL: NW/4 SW/4 Sec. 15 T6S R6W
Duchesne County, Utah
Surface: Federal
Federal Mineral Lease: UTU78212
Sowers Canyon Unit: UTU86334X

LEGEND

- █ Two-Track to be Upgraded Off Lease / In Unit (USFS)
- █ Two-Track to be Upgraded Off Lease/ Off Unit (Ute Tribe)
- █ Existing Road (Ute Tribe)
- █ Water Haul

Revised by Upstream Petroleum Management, Inc.

LEGEND:

- EXISTING ROAD
- EXISTING 2-TRACK NEEDS UPGRADED



Vantage Energy Uinta LLC

QUITCHAMPAU #1-15
SECTION 15, T6S, R6W, U.S.B.&M.
709' FSL 675' FWL

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

TOPOGRAPHIC MAP 06 06 05
MONTH DAY YEAR
SCALE: 1" = 2000' DRAWN BY: C.P. REV: 06-26-08 S.L. **B2 TOPO**



VANTAGE ENERGY

Ms. Diana Mason
State of Utah
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Salt Lake City, UT 84114

March 28, 2013

Re: Directional Drilling R649-3-11
Vantage Energy Uinta, LLC
Quitchampau 1-15
API No. 43-013-32940
SHL: 709' FSL 675' FWL (SW/4 SW/4)
BHL: 1,980' FSL 660' FWL (NW/4 SW/4)
Sec. 15 T6S R6W
Duchesne County, Utah
Surface: Federal
Federal Mineral Lease: UTU78212
Sowers Canyon Unit UTU86334X

Dear Ms. Mason:

With regards to the filing of Vantage Energy Uinta LLC's (Vantage) Application for Permit to Drill regarding the above referenced well, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11, pertaining to the Exception of Location and Sitting of Wells.

- Quitchampau 1-15 is an exploratory well located within the Sowers Canyon Unit UTU86334X.
- Vantage is permitting this well as stipulated by the United States Forest Service as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location, Vantage will be able to utilize any proposed roads and or pipelines in the area.
- Vantage is the unit operator of the Sowers Canyon Unit. As it pertains to all depths from the surface to the base of the Wasatch Formation, Vantage certifies it is the sole working interest owner within 460 feet of the entire directional well bore and within Section 15 (federal oil and gas lease UTU78212). As to all depths deeper than the Base of the Wasatch Formation, the sole working interest owner is Exxon Mobil Corporation (XOM). Vantage and XOM have entered into a mutually executed Exploration Agreement that provides for the possible development of those deeper depths.

Utah Division Oil, Gas & Mining

March 28, 2013

Page 2 of 2

Based on the above stated information, Vantage requests the permit be granted pursuant to the terms and conditions of Rule R649-3-11.

Sincerely,

VANTAGE ENERGY UINTA, LLC

Michael Holland

Senior Landman



Cc: mth, jm, rs, tt, kh, su, Kim Rodell (Upstream Petroleum Management)

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
5. LEASE DESIGNATION AND SERIAL NUMBER: UTU78212	
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: SOWERS CANYON	
8. WELL NAME and NUMBER: QUITCHAMPAU 1-15	
9. API NUMBER: 43013513300000	
9. FIELD and POOL or WILDCAT: WILDCAT	
9. COUNTY: DUCHESNE	
STATE: UTAH	
1. TYPE OF WELL Gas Well	
2. NAME OF OPERATOR: VANTAGE ENERGY UINTA LLC	
3. ADDRESS OF OPERATOR: 116 Inverness Drive East, Ste 107 , Englewood , CO, 80112	
PHONE NUMBER: 303 386-8600 Ext	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0709 FSL 0675 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 15 Township: 06.0S Range: 06.0W Meridian: U	

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: 5/15/2015	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input checked="" type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

Vantage Energy Uinta LLC requests an extension to the Application for Permit to Drill for the maximum amount of time allowed. Thank you.

Approved by the
April 20, 2015
Oil, Gas and Mining

Date: _____
By: 

NAME (PLEASE PRINT) Kimberly Rodell	PHONE NUMBER 303 941-0506	TITLE President
SIGNATURE N/A	DATE 4/16/2015	



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43013513300000

API: 43013513300000

Well Name: QUITCHAMPAU 1-15

Location: 0709 FSL 0675 FWL QTR SWSW SEC 15 TWNP 060S RNG 060W MER U

Company Permit Issued to: VANTAGE ENERGY UINTA LLC

Date Original Permit Issued: 4/4/2012

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

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

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

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

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

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

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

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

Signature: Kimberly Rodell

Date: 4/17/2015

Title: President

Representing: VANTAGE ENERGY UINTA LLC



GARY R. HERBERT
Governor

SPENCER J. COX
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

June 7, 2016

Vantage Energy Uinta LLC.
116 Inverness Drive East, Ste 107
Englewood, CO 80112

Re: APDs Rescinded for Vantage Energy Uinta, LLC, Duchesne County

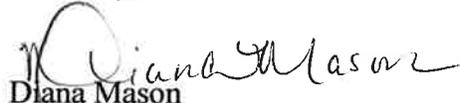
Ladies and Gentlemen:

Enclosed find the list of APDs that is being rescinded. No drilling activity at these locations has been reported to the division. Therefore, approval to drill these wells is hereby rescinded as of June 7, 2016.

A new APD must be filed with this office for approval prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,


Diana Mason
Environmental Scientist

cc: Well File
Bureau of Land Management, Vernal

Wild Horse 1-11	43-013-51305
AFU 64-18-41	43-013-51325
AFU 64-19-11	43-013-51327
Quitchampau 1-15	43-013-51330
AFU 65-28-32	43-013-51324