

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

FORM 3

AMENDED REPORT   
(highlight changes)

<b>APPLICATION FOR PERMIT TO DRILL</b>			5. MINERAL LEASE NO: <b>UTU78235</b>	6. SURFACE: <b>National Forest</b>
1A. TYPE OF WORK: DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>			7. IF INDIAN, ALLOTTEE OR TRIBE NAME: ---	
B. TYPE OF WELL: OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER _____ SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			8. UNIT or CA AGREEMENT NAME: <b>Gilsonite Draw Unit - UTU86249X</b>	
2. NAME OF OPERATOR: <b>Vantage Energy Uinta LLC</b>			9. WELL NAME and NUMBER: <b>GDU 63-7-31</b>	
3. ADDRESS OF OPERATOR: <b>116 Inverness Drive East, Suite 107, Englewood</b>			PHONE NUMBER: <b>303-386-8600</b>	10. FIELD AND POOL, OR WILDCAT: <b>Wildcat</b>
4. LOCATION OF WELL (FOOTAGES) <b>562147X 44248054 39.973006 -110.272248</b>			11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NW 14 SW 14 Sec. 7 T 6S R 3W U.S.B.&amp;M.</b>	
AT SURFACE: <b>2,167' FSL 562177X 562' FWL 44247484 39.972493 -110.27189</b>				
AT PROPOSED PRODUCING ZONE: <b>±1,980' FSL ±660' FWL (NW/4 SW/4) of Sec. 7 T6S R3W</b>				
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: <b>Well is ±33 miles southwest of Myton, Utah.</b>			12. COUNTY: <b>Duchesne</b>	13. STATE: <b>Utah</b>
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET): <b>Lease: 562' Property: 562'</b>		16. NUMBER OF ACRES IN LEASE: <b>2,250.48</b>	17. NUMBER OF ACRES ASSIGNED TO THIS WELL: <b>40</b>	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) <b>6,904' - Federal 8-1-64</b>		19. PROPOSED DEPTH: <b>12,115' TVD; 12,125' MD</b>	20. BOND DESCRIPTION: <b>UTB000288</b>	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): <b>7,094' GR</b>		22. APPROXIMATE DATE WORK WILL START: <b>August 1, 2009</b>	23. ESTIMATED DURATION: <b>45-60 days drlg + completion</b>	

24. **PROPOSED CASING AND CEMENTING PROGRAM**

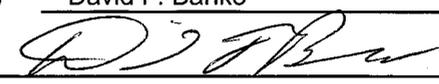
SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT	SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT
12-1/4"	9-5/8" J-55 36# ST&C	0' - 1,500'	To surface (Lead: ±220 sxs Lite; Tail: ±205 sxs 50:50 Class G: Poz)
7-7/8"	4-1/2" HCP-110 11.6# LT&C	0' - 12,125'	TD to surface (Lead: ±545 sxs Type "V"; Tail: 490 sxs 50:50 Class G: Poz)

25. **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"/> EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER	<input type="checkbox"/> FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER

NAME (PLEASE PRINT) David F. Banko TITLE Permit Agent for: Vantage Energy Uinta LLC

SIGNATURE  DATE February 25, 2009

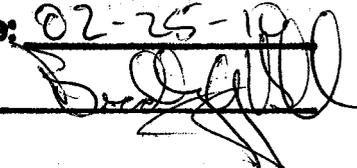
(This space for State use only)

API NUMBER ASSIGNED: 43013-34219

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

**RECEIVED  
FEB 26 2009**

(See Instructions on Reverse Side)

Date: 02-25-09  
By: 

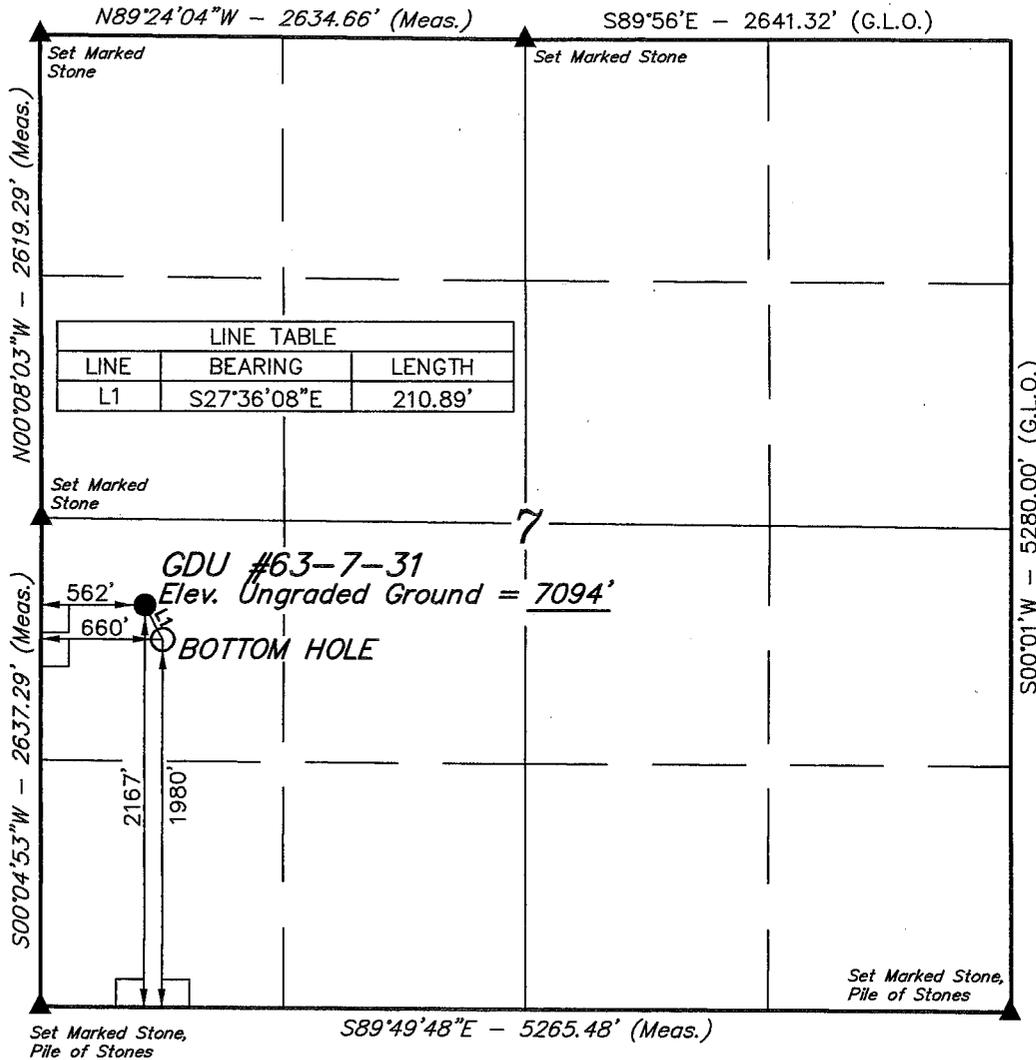
DIV. OF OIL, GAS & MINING

**Federal Approval of this  
Action is Necessary**

# T6S, R3W, U.S.B.&M.

## Vantage Energy Uinta LLC

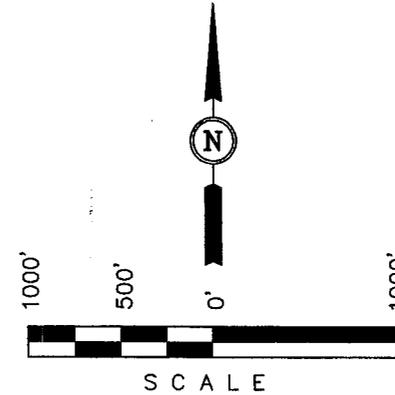
Well location, GDU #63-7-31, located as shown in the SW 1/4 NW 1/4 of Section 7, T6S, R3W, U.S.B.&M., Duchesne County, Utah.



LINE TABLE		
LINE	BEARING	LENGTH
L1	S27°36'08\"E	210.89'

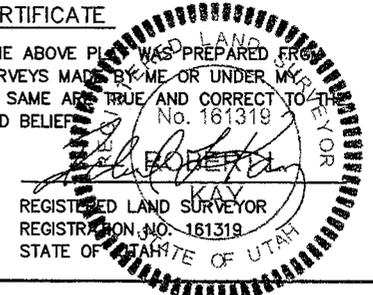
### BASIS OF ELEVATION

BENCH MARK (M67) LOCATED IN THE SW 1/4 OF SECTION 9, T5S, R4W, U.S.B.&M., TAKEN FROM THE DUCHESNE SE QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED ON CAP AS BEING 6097 FEET.



### 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: 12-17-08 L.K.

### BASIS OF BEARINGS

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

### LEGEND:

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

NAD 83 (BOTTOM HOLE LOCATION)	NAD 83 (SURFACE LOCATION)
LATITUDE = 39°58'20.96" (39.972489)	LATITUDE = 39°58'22.81" (39.973003)
LONGITUDE = 110°16'21.60" (110.272667)	LONGITUDE = 110°16'22.85" (110.273014)
NAD 27 (BOTTOM HOLE LOCATION)	NAD 27 (SURFACE LOCATION)
LATITUDE = 39°58'21.09" (39.972525)	LATITUDE = 39°58'22.94" (39.973039)
LONGITUDE = 110°16'19.05" (110.271958)	LONGITUDE = 110°16'20.30" (110.272306)

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

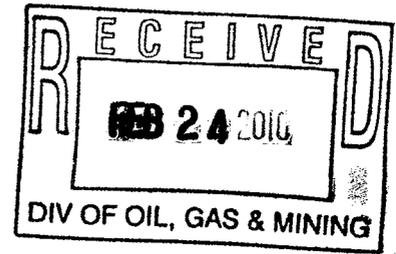
SCALE 1" = 1000'	DATE SURVEYED: 11-06-08	DATE DRAWN: 11-14-08
PARTY M.A. A.H. S.L.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE Vantage Energy Uinta LLC	



RECEIVED

March 24, 2009

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



Re: Directional Drilling R649-3-11  
Vantage Energy Uinta LLC – Operator  
**GDU 63-7-31**  
SHL: 2,167' FSL, 562' FWL (NW/4 SW/4)  
Section 7, T6S, R3W  
BHL: ± 1,980' FSL, ± 660' FWL (NW/4 SW/4) within 60' radius  
Section 7, T6S, R3W  
Duchesne County, Utah  
Federal Lease: UTU78235

Dear Ms. Mason,

Pursuant to the filing of Vantage Energy Uinta LLC's (Vantage) Application for Permit to Drill regarding the above referenced well on February 25, 2009, we are hereby submitting this letter in accordance with Oil and Gas Conservation Rule R649-3-11 pertaining to the Exception to Location and Siting of Wells.

- The GDU 63-7-31 is an exploratory well located within the Ashley National Forest, and within a proposed federal unit, named Gilsonite Draw Unit.
- Vantage's surface location has been selected and is being permitting as described in order to minimize surface disturbance off established Forest Service roads, and yet satisfy Vantage's geologic testing requirements.
- The selected surface location is not ideal, and is not located within allowable setback tolerance on the western border of the section line, or the proposed Gilsonite Draw Unit.
- The proposed bottomhole location would allow for future evenly-spaced 40 acre development as the bottomhole coordinates are in the center of the NWSW quarter-quarter of the section.



Vantage hereby certifies that it is the sole working interest owner within 460 feet of the entire directional well bore and within Section 7 (federal oil and gas lease UTU78235).

Should there be any additional information you may require for the evaluation and approval of this request, please contact me at 303-386-8610, or via email at [John.Moran@VantageEnergy.com](mailto:John.Moran@VantageEnergy.com).

Sincerely,

VANTAGE ENERGY UINTA LLC  
John J Moran Jr  
Senior Engineer

cc: Bureau of Land Management – State Office  
Attn: Ms. Sherry Fountain  
Banko Petroleum Management, Inc.  
Attn: Mr. David Banko  
Well File

Vantage Energy Uinta LLC  
GDU 63-7-31  
Page 2

February 25, 2009  
Form 3160-3

Please find attached:

- 1) Cover Letter, \$4,000 Filing Fee, UT APD form, Drilling Program, 3M BOP Diagram, directional profile and Table 8 - Wells within a 2-Mile Radius
  
- 2) Surface Use Plan of Operations, Survey Plat, Location Layout, Typical Cross Sections, Production Facility Layout, Access Road and Area Maps and wellsite photos.

The wellsite was surveyed and staked at 2,167' FSL 562' FWL (NW/4 SW/4) of Sec. 7 T6S R3W on November 6, 2008, by Uintah Engineering & Land Surveying (Uintah), surveyor, in the Ashley National Forest and a site that was geologically and topographically acceptable. The wellsite and access road fall within the boundary of the Gilsonite Draw Unit identified by Serial Register No. UTU86249X.

This Application for Permit to Drill (APD) is being filed under the APD process as stated per Onshore Order No. 1 (OSO #1) and supporting Bureau of Land Management (BLM) documents. This APD process also serves at the Notice of Staking Onshore Order No 1.

The Cultural Resources Report will be submitted shortly under separate cover by Montgomery Archaeological Consultants.

Please send a copy of all correspondence to Banko Petroleum Management, Inc. at 385 Inverness Parkway, Suite 420, Englewood, CO 80112-5849. Please contact David Banko at david@banko1.com if you have any questions. Thank you.

Vantage Energy Uinta LLC  
GDU 63-7-31  
SHL: 2,167' FSL 562' FWL (NW/4 SW/4)  
BHL: ±1,980' FSL ±660' FWL (NW/4 SW/4) within a 60' radius  
Sec. 7 T6S R3W  
Duchesne County, Utah  
Federal Lease: UTU78235

### **NINE POINT DRILLING PROGRAM**

(All drilling procedures will comply with BLM *Onshore Oil and Gas Orders 1 and 2*)

**Vantage Energy Uinta LLC respectfully requests that all information regarding this well be kept CONFIDENTIAL.**

This Application for Permit to Drill (APD) is being filed under the APD process as stated per Onshore Order No. 1 (OSO #1) and supporting Bureau of Land Management (BLM) documents.

***THIS APD ALSO SERVES AS THE NOTICE OF STAKING PER OSO #1.***

This document was prepared using language and requirements consistent with those previously approved by BLM/USFS. This APD process has included the following:

- Consultation with the Surface Management Agency, United State Forest Service (USFS) to initiate the National Environmental Policy Act (NEPA) process for this specific wellsite along with other nearby proposed wellsites in September 8, 2008.
- Meeting with USFS at the wellsite on October 15, 2008, to review the topography, access and site specific surface use issues. Preliminary wellsite staking was initiated at this time.
- Authorization to conduct an archaeological survey was received from USFS on October 27, 2008. The archaeological survey was conducted shortly thereafter.
- Preliminary wellsite staking was completed on October 15, 2008. The wellsite was surveyed and staked at a location as preliminarily agreed to with USFS at 2,167' FSL 562' FWL (NW/4 SW/4) of Sec. 7 T6S R3W on November 6, 2008, by Uintah Engineering & Land Surveying (Uintah), surveyor, on a site that is geologically and topographically acceptable.
- A wellsite review and NEPA planning meeting was held at the USFS office in Vernal, Utah on January 22, 2009. Attending were USFS, BLM, Petros Environmental (NEPA Contractor) and Vantage.
- The survey plats were finalized after the January 22, 2009 meeting and are as attached.

We understand that an onsite meeting with USFS/BLM representatives, and Vantage will be scheduled, at which time the specific concerns of USFS/BLM and Vantage will be discussed. Best efforts have been made to address specific concerns of the USFS.

Please contact Mr. John Moran, Senior Drilling Engineer, with Vantage at 303-386-8600, or Mr. David Banko, Permit Agent at 303-820-4480 or at david@banko1.com if there are any questions or concerns regarding this Drilling Program.

**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	7,110'	Sandstone/siltstone/shale
Garden Gulch	3,380'	3,388'	3,730'	Sand and Siltstone
Douglas Creek	4,260'	4,270'	2,850'	Sandstone/siltstone/shale
Castle Peak	5,195'	5,205'	1,950'	Sandstone/siltstone/shale
Uteland Butte	5,660'	5,670'	1,450'	Carbonate/shale/sandstone
Wasatch	5,830'	5,840'	1,280'	Shale/Sandstone
Price River	9,910'	9,920'	-2,800'	Shale/Sandstone
Blue Castle	12,110'	12,120'	-5,000'	Sandstone
Total Depth	12,115'	12,125'	-5,005'	TD +/- 5' into Blue Castle

Surface Elevation: 7,094' (Ungraded Ground); 7,109' (Est. KB).

Proposed Total Vertical Depth: 12,115'

Proposed Total Measured Depth: 12,125'

**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	7,110'	Water
Garden Gulch	3,380'	3,730'	Oil/Gas
Douglas Creek	4,260'	2,850'	Oil/Gas
Castle Peak	5,195'	1,950'	Oil/Gas
Uteland Butte	5,660'	1,450'	Oil/Gas
Wasatch	5,830'	1,280'	Oil/Gas
Price River	9,910'	-2,800'	Oil/Gas
Blue Castle	12,110'	-5,000'	Oil/Gas
Total Depth	12,115'	-5,005'	Oil/Gas/Water

**c) MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL EQUIPMENT**

The maximum anticipated surface pressure for this well is calculated to be **2,992 psi**. Therefore, rules for a 3,000 psi rated BOP and choke manifold system are applicable. A diagram of the proposed 3,000 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 USFS/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.

**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 (OSO #2)* for 3,000 psi systems. Irregardless of the rig selected, the rig's accumulator system shall have sufficient capacity to close all BOPs and retain 200 psi above precharge. The proposed pressure control equipment will meet or exceed standards specified in the Order OSO #2.

**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'	24"	16"	Optional Conductor – Only if Required
0 – 1,500'	12-1/4"	9-5/8"	36# J-55 ST&C, API New Pipe
0 – 12,125'	7-7/8"	4-1/2"	11.6# HCP-110 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)
16"	NA – 0.129" wall structural and to seal shallow gravels to allow air drilling surface hole				Weld	NA	NA	NA
9-5/8" 36# J-55	2,020	3,520	564	394	ST&C	1.42	6.27	4.17
4-1/2" 11.6# HCP-110	8,650	10,690	367	279	LT&C	1.25	1.51	1.63

**\*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**

$$\begin{aligned} \text{Load} &= (\text{Formation Gradient} - 0.22 \text{ psi/ft}) * \text{Total Depth, TVD} \\ &= (0.467 \text{ psi/ft} - 0.22 \text{ psi/ft}) * 12,115 \text{ ft.} \\ &= 2,992 \text{ psi} \end{aligned}$$

**TEST PRESSURE**

$$\begin{aligned} \text{Load} &= \text{Greater of } 1500 \text{ psig or } 0.70 * 3520 = 2464 \text{ psig or MASP} = 3,005 \text{ psig} \\ \text{SF Burst} &= 3,520 \text{ psi} / 2,992 \text{ psi} = 1.18 \end{aligned}$$

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

Cement density = 12.2 ppg (wtd avg)

$$\begin{aligned} \text{Load} &= 12.2 \text{ ppg} * 0.052 * 1500 \text{ ft} \\ &= 952 \text{ psi} \end{aligned}$$

$$\text{SF Collapse} = 2020 \text{ psi} / 952 \text{ psi} = 2.12$$

**Tension Load:** Assumes air weight at total depth + 100,000 lbs overpull design factor.

$$\begin{aligned} \text{Load} &= (36 \text{ lbs/ft} * 1500 \text{ ft}) + 100,000 \text{ lbs overpull} \\ &= 154,000 \text{ lbs} \end{aligned}$$

$$\text{SF Tension} = 394,000 \text{ lbs} / 154,000 \text{ lbs} = 2.55$$

**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.

$$\begin{aligned}\text{Load} &= 10690 \text{ psi} * 0.80 \\ &= 8552 \text{ psi}\end{aligned}$$

$$\text{SF Burst} = 10690 \text{ psi} / 8552 \text{ psi} = 1.25$$

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

$$\begin{aligned}\text{Load} &= 0.433 \text{ psi/ft} * 12,115 \text{ ft} \\ &= 5246 \text{ psi}\end{aligned}$$

$$\text{SF Collapse} = 8650 \text{ psi} / 5246 \text{ psi} = 1.65$$

**Tension Load:** Assumes buoyed weight of casing at total depth + 80,000 lbs overpull design factor.

$$\begin{aligned}\text{Load} &= [11.6 \text{ lbs/ft} * 12,115 \text{ ft TVD} * ((65.5 - 10.0) / 65.5)] + 80,000 \text{ lbs} \\ &= 119,079 \text{ lbs} + 80,000 \text{ lbs} \\ &= 199,078 \text{ lbs}\end{aligned}$$

$$\text{SF Tension} = 279,000 \text{ lbs} / 199,078 \text{ lbs} = 1.40$$

## e) CEMENT PROGRAM

Table 5: Proposed Cement Program

Measured Depth	Hole Diameter	Casing Diameter	Cement
0' - ± 50'	24"	16"	Optional structural conductor if required: Grout with approximately 4 cubic yards of redi-mix back to surface (includes 100% excess)  <b>TOC: Surface (Top-off per visual observation)</b>
0' - 1,500'	12-1/4"	9-5/8"	<b>Lead System (1,000' - Surface)</b> 216 sks "Lite" slurry + ¼ lb/sk celloflake.  Density: 11.0 ppg Yield: 2.90 cuft/sk Water: 15.45 gal/sk Excess: 100%  <b>Tail System (1,500' - 1,000') + 40' Shoe Joint</b> 205 sks 50:50 (Class G: Poz) + 2% gel + 2% CaCl <sub>2</sub> Density: 14.2 ppg Yield: 1.61 cuft/sk Water: 5.75 gal/sk Excess: 100%  <b>TOC: Surface (Top-off per visual observation)</b>
0' - 12,125'	7-7/8"	4-1/2"	<b>Lead System (9,500' - 2,500')</b> 543 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%  <b>Tail System (12,125' - 9,500') + 40' Shoe Joint</b> 490 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 + 15% excess factor.

**f) MUD PROGRAM**

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

**Table 6 Proposed 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' - 1500'±	NA	NA	N/C	Air/Mist
Run/cement 9-5/8" surface casing				
1500'± - TD	8.6 – 10.0	28 - 42	< 10	KCL Water / PHPA / DAP
Run Logs – Run/cement 4-1/2" 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 3,600' "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-GR	Surface Casing to TD + GR to surface	Standard "triple combo" equivalent with resistivity-spontaneous potential, litho-density, compensated neutron, gamma ray, and caliper
Dipole Sonic	± 9,700' to TD	Optional – Operator's discretion Rock property data
Rotary Sidewall Cores	± 9,972' 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, and then transition to slightly over pressure in the Price River sequence.

Estimated BHP Douglas Creek (4,260')	1,874 psi
Estimated BHP Wasatch (5,830')	2,565 psi
Estimated BHP Total Depth (12,115' TVD)	5,331 psi
Hydrostatic head of gas/mud	0.22 psi/ft.
<b>Maximum design surface pressure</b>	<b>0.467 – 0.22 psi/ft x 12,115 ft = 2,992 psi</b>

No H2S zones are anticipated. No abnormal lost circulation zones are anticipated.

#### **i) DIRECTIONAL PROGRAM**

This is a directional well. Please see the attached directional profile prepared by Multi-Shot LLC.

#### **j) OTHER INFORMATION**

##### Contact Information and Personnel

##### Mailing Address

Vantage Energy Uinta LLC  
116 Inverness Drive, Suite 107  
Englewood, CO 80112

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

##### Primary Contact: Mark Rothenberg

Office Direct: 303-386-8605  
Fax Direct: 303-386-8705  
Mobile: 303-885-5462  
E-Mail: [Mark.Rothenberg@VantageEnergy.com](mailto:Mark.Rothenberg@VantageEnergy.com)

##### Drilling Operations: John Moran

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Fax Direct: 303-386-8710  
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Completion/Production Operations: Ed Long

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Mobile: 720-635-2125

E-Mail: Ed.Long@VantageEnergy.com

Geologist: Andrea Steinle

Office Direct: 303-386-8632

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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

**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 August 1, 2009, with a target spud date of August 15, 2009. It is anticipated the drilling phase will require 25 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 - 60 days.

The total project duration is therefore estimated to be **70 - 85 days**, and therefore anticipated to be concluded on or about November 10, 2009.

A string of 2-3/8 inch 4.7 lb/ft. N-80 tubing would be run as the production tubing. A Sundry Notice will be submitted should there be any changes to the proposed completion program.

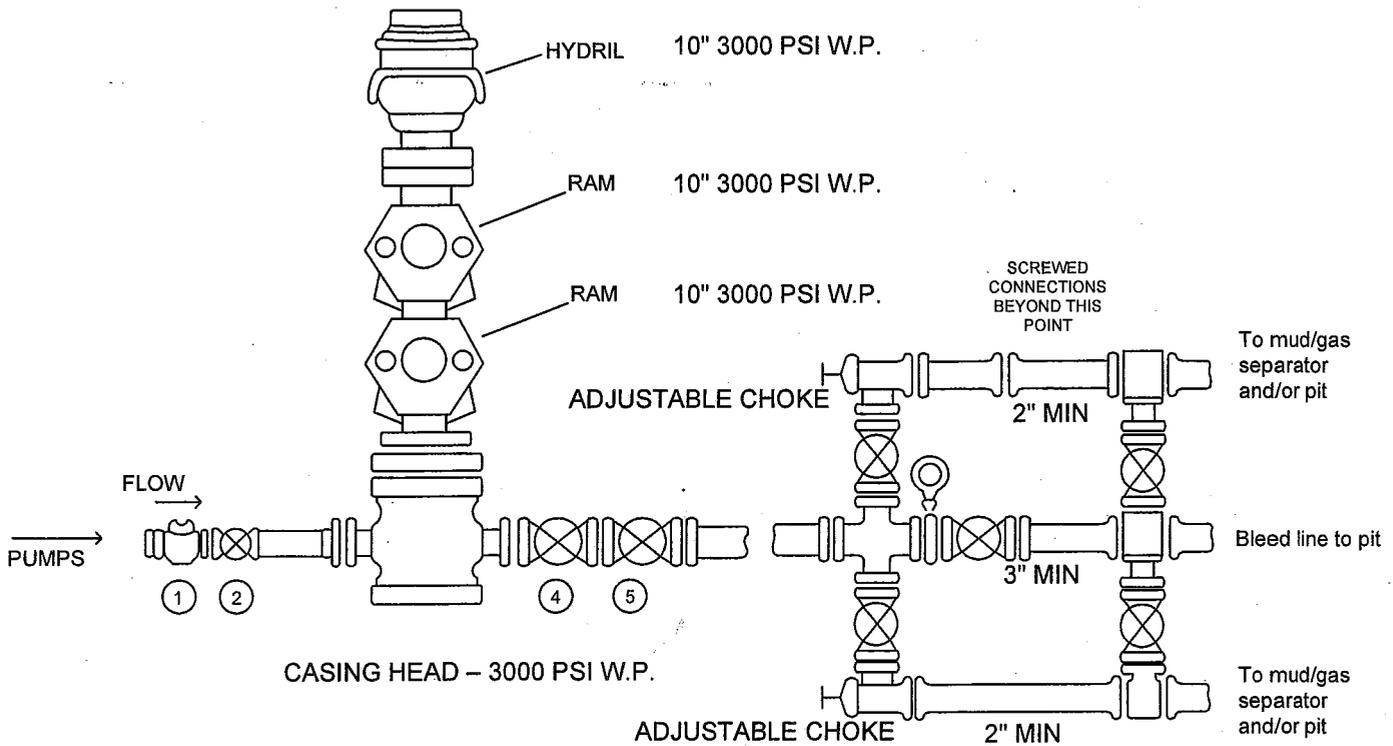
**VARIANCE REQUESTS**

1. Operator requests a variance to *Onshore Oil and Gas Order 2, Item E*, regulations for air/gas drilling operations. Operator plans to drill the surface hole to a depth of 1,500', 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

# MINIMUM BOP Requirements

3000 PSI W.P.

FILL LINE ABOVE THE UPPERMOST PREVENTER



## KILL LINE

- Valve #1 – Flanged check valve  
Full working pressure of BOP
- Valve #2 – Flanged, minimum 2" bore  
Full working pressure of BOP

## CHOKE LINE

Valves #4 & 5

- Flanged minimum 3" bore  
Full working pressure of BOP
- (Note: An HCR can be used instead of Valve # 5)

## GENERAL RULES AND RECOMMENDATIONS

All lines to manifold are to be at right angles (90 deg.). No 45 deg. angles are to be used.  
Blind flanges are to be used for blanking.  
All studs and nuts are to be installed on all flanges.

Vantage Energy Uinta LLC  
GDU 63-7-31  
SHL: 2,167' FSL 562' FWL (NW/4 SW/4)  
BHL: ±1,980' FSL ±660' FWL (NW/4 SW/4) within a 60' radius  
Sec. 7 T6S R3W  
Duchesne County, Utah  
Federal Lease: UTU78235

### **SURFACE USE PLAN OF OPERATIONS**

**Vantage Energy Uinta LLC respectfully requests that all information regarding this well be kept CONFIDENTIAL.**

This Application for Permit to Drill (APD) is being filed under the APD process as stated per Onshore Order No. 1 (OSO #1) and supporting Bureau of Land Management (BLM) documents.

#### ***THIS APD ALSO SERVES AS THE NOTICE OF STAKING PER OSO #1.***

This document was prepared using language and requirements consistent with those previously approved by BLM/USFS. This APD process has included the following:

- Consultation with the Surface Management Agency, United State Forest Service (USFS) to initiate the National Environmental Policy Act (NEPA) process for this specific wellsite along with other nearby proposed wellsites in September 8, 2008.
- Meeting with USFS at the wellsite on October 15, 2008, to review the topography, access and site specific surface use issues. Preliminary wellsite staking was initiated at this time.
- Authorization to conduct an archaeological survey was received from USFS on October 27, 2008. The archaeological survey was conducted shortly thereafter.
- Preliminary wellsite staking was completed on October 15, 2008. The wellsite was surveyed and staked at a location as preliminarily agreed to with USFS at 2,167' FSL 562' FWL (NW/4 SW/4) of Sec. 7 T6S R3W on November 6, 2008, by Uintah Engineering & Land Surveying (Uintah), surveyor, on a site that is geologically and topographically acceptable.
- A wellsite review and NEPA planning meeting was held at the USFS office in Vernal, Utah on January 22, 2009. Attending were USFS, BLM, Petros Environmental (NEPA Contractor) and Vantage.
- The survey plats were finalized after the January 22, 2009 meeting and are as attached.

We understand that an onsite meeting with USFS/BLM representatives, and Vantage will be scheduled, at which time the specific concerns of USFS/BLM and Vantage will be discussed. Best efforts have been made to address specific concerns of the USFS.

Please contact David Banko at 303-820-4480 to arrange an onsite meeting.

#### **WELL LOCATION AND INTRODUCTION**

The wellsite was surveyed and staked at 2,167' FSL 562' FWL (NW/4 SW/4) of Sec. 7 T6S R3W on November 6, 2008, by Uintah, in the Ashley National Forest and a site that was geologically and topographically acceptable. The wellsite and access road fall within the boundary of the Gilsonite Draw Unit identified by Serial Register No. UTU86249X.

DIRECTIONS TO LOCATION:

From the intersection of State Highway 40 and Antelope Canyon Road southeast of Bridgeland, Utah, travel south/southwesterly  $\pm 3.3$  miles to an existing gravel resource road. Turn left and travel easterly for  $\pm 1.4$  miles to a "Y" intersection. Turn right on Gilsonite Ridge Road, which becomes the National Forest Road (FR) 337 at the Ashley National Forest boundary, and travel southerly for  $\pm 9.5$  miles to the staked proposed access road. Turn right and travel westerly, then northerly on the staked access road for  $\pm 0.10$  miles to the proposed location.

1) EXISTING ROADS

*This APD will serve as a request for USFS/BLM to initiate a Right-of-Way (ROW) application for access roads and water haul routes, if necessary. This ROW can continue up to the wellhead. Width of ROW requested is 40 feet.*

The well is an exploratory well.

- A) Existing roads with 2.00 miles consist of a maintained dirt and gravel surfaced road forest road within 0.10 miles of the location, which will provide access to the proposed location.
- B) The existing road will be upgraded to the minimum degree necessary. Upgrading may include ditching, drainage, graveling, crowning, capping the roadbed as necessary to provide a well constructed safe road; however, because this is an exploratory well, improvements to the access road will consist of the minimum construction needed for safe travel. Prior to any 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 will be filled in and detours around them avoided.
- C) The existing roads will be maintained and repaired as necessary.

2) PLANNED ACCESS ROADS

*This APD will serve as a request for USFS/BLM to initiate a ROW application for access roads and water haul routes. Please contact us if authorized federal access ROW to this location is not in order, or if USFS/BLM has additional requirements.*

0.10 miles – Total new road construction, Sec. 7 T6S R3W – USFS, on lease

- A) Running surface width to be  $\pm 14'$  -  $\pm 16'$ , total disturbed width to be no more than 40'. Plans for improvement and/or maintenance of existing roads are to maintain in as good or better conditions that at present. A regular maintenance plan will include, but not be limited to blading, ditching, and surfacing.
- B) Borrow ditches to be backsloped 3:1 or shallower. Weather permitting, the access road will be mowed and the borrow ditch material will be pulled over the top of the mowed area.
- C) Maximum grade will not exceed BLM standards.
- D) No culverts are anticipated.
- E) Surfacing material, if necessary, to consist of native material from borrow ditches, topsoil will be buried in road crown.
- F) No major road cuts are necessary.
- G) Fence cuts, gates, and cattleguards will not be required.

- H) Road construction on public lands shall meet the minimum standards listed in BLM Manual Section 9113 and shall be constructed under the direction of a qualified construction supervisor(s). The qualified construction supervisor shall be an engineer, company superintendent or other representative who is competent and knowledgeable in oilfield road and drillsite construction, and able to speak for the operator. The dirt contractor, or drilling/completion foremen whose primary expertise is not in construction, do not qualify as construction supervisors.
- D) The proposed access road connects to county maintained Gilsonite Ridge Road, aka FR 337. A County Approach Permit with Duchesne County is required with an associated fee of \$75.00. The application will be submitted to the Duchesne County Road and Bridge Department in Duchesne, Utah, along with a check for the permit fee. We anticipate the permit will be approved in approximately 30 days. The approach will be inspected and approved by the road supervisor before and after construction.

3) LOCATION OF EXISTING WELLS WITHIN A TWO MILE RADIUS

Proposed	NONE
Drilling	SEE TABLE 8
Abandoned	SEE TABLE 8
Disposal/Injection	NONE
Shut-In	SEE TABLE 8
Producing	SEE TABLE 8

LOCATION OF EXISTING FACILITIES OPERATED BY VANTAGE

T6S R3W Sec 20 NW/4NW/4 Shut-In

4) NEW PRODUCTION FACILITIES PROPOSED

- A) USFS/BLM will be contacted prior to construction of production facilities. A Sundry Notice (SN) will be filed if requested by BLM.
- B) Dimension of Proposed Facility of the pad is  $\pm 325'$  long and  $\pm 270'$  wide, containing  $\pm 2.0$  acres, with a total well site disturbance of  $\pm 2.316$  acres. The well access road is  $\pm 0.10$  miles long with a 30' right-of-way, disturbing  $\pm 0.425$  acre. New surface disturbance associated with access road and the well pad is estimated to be  $\pm 2.741$  acres. No pipelines or surface facilities are proposed. See attached plats and Topo Map B.
- C) Traveled portion of production site will be gravel surfaced upon completion of production facility installation and prior to production. Site preparation for production will be done with standard excavation equipment using native materials. Additional surface material will be obtained from commercial sources or an approved borrow area. Construction and maintenance will not be performed when the ground or topsoil is frozen or too wet to adequately support construction equipment. If such equipment creates ruts in excess of four (4) inches deep, the soil will be deemed too wet.
- D) All above ground permanent structures will be painted to blend with the surrounding landscape. The color used will be as agreed upon with USFS/BLM. To reduce the view of production facilities from visibility corridors and private residences, facilities will not be placed in visually exposed locations (such as ridgelines and hilltops). The tallest structure will be no greater than 22' in height.

- E) Production facilities may vary according to actual reservoir discovered and will be engineered upon completion of well tests. Production facilities will be clustered and placed away from cut/fill slopes to allow the maximum recontouring of cut/fill slopes.
- F) If well is a producer, all production facilities will be authorized by a SN.
- G) No facilities will be constructed off location.
- H) Pursuant to Onshore Order No. 7 (OSO #7), this is a request for authorization for reserve pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by BLM and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method will be submitted along with any necessary water analyses, in compliance with OSO #7 as soon as possible, but no later than 45 days after the date of first production. Any method of disposal, which has not been approved prior to the end of the authorized 90-day period, will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by BLM.

5) LOCATION AND TYPE OF WATER SUPPLY

- A) Water supply will be 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, than (State Water Right No. 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, Operator 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. If a water well is drilled, it would be properly permitted with the Utah Division of Water Rights.

6) SOURCE OF CONSTRUCTION MATERIALS

- A) All construction material for these location sites and access roads shall be of native borrow and soil material accumulated during the construction of the location sites and access road. Surface disturbance will be minimized to the extent feasible.
- B) All construction materials will come from federal land.
- C) No mineral materials will be required.

7) WASTE DISPOSAL

- A) Drill cuttings will be buried in reserve pit when dry.
- B) Drilling fluid will be evaporated and then buried in the reserve pit when dry. A "Closed Mud System" may be used if technically feasible and available at the time of drilling operations. If so, water may be hauled to and used at another drillsite in the area.
- C) Completion fluids will be flowed to the reserve pit and allowed to evaporate.
- D) Reserve pit layout is illustrated on Figures 1 and 2
- E) Reserve pit will be lined with a synthetic liner 12 mil or thicker. The reserve pit liner shall be made of any manmade synthetic material of sufficient size and qualities to sustain a hydraulic conductivity no greater than  $1 \times 10^{-7}$  cm/sec after installation and which is sufficiently reinforced to withstand normal wear and tear associated with the installation and pit use thereof. The liner shall be chemically compatible with all substances that may be put into the pit.

- F) Reserve pit will be fenced on three sides during drilling operations, and on fourth side at time of rig release. Pit will remain fenced until backfilled.
  - G) Flare pit for air drilling will (if used) be located minimum 100' from wellbore.
  - H) Produced fluid will be contained in test tanks during completion and testing.
  - I) Sewage disposal facilities will be in accordance with State and Local Regulations.
  - J) Garbage and other waste - solid waste will be contained in a portable trash cage which will be totally enclosed with small mesh wire. Cage and contents will be transported to and trash dumped at a UDEQ approved Sanitary Landfill upon completion of operations.
  - K) Trash will be contained in trash cage at all times.
  - L) Upon release of the drilling rig, rathole and mousehole will be filled. Debris and equipment not required for production will be removed.
- 8) ANCILLARY FACILITIES  
No ancillary facilities are proposed.
- 9) WELLSITE LAYOUT
- A) See attached drillsite plat and cut/fill diagram.
  - B) Roads and well production equipment, such as tanks, treaters, separators, vents, electrical boxes, and equipment associated with pipeline operation, will be placed on location so as to permit maximum interim reclamation of disturbed areas. If equipment is found to interfere with the proper interim reclamation of disturbed areas, the equipment may be moved so proper recontouring and revegetation can occur.
  - C) 6" of topsoil will be removed prior to location construction from the reserve pit area and/or any other disturbed areas. Topsoil will be stockpiled adjacent to the wellsite within the maximum disturbed area shown on the wellsite plat.
  - D) Topsoil and spoils pile will be clearly separated as shown on Figure 1.
  - E) Erosion control measures will be applied pursuant to Vantage's General Permit to Discharge Stormwater under the Utah Pollutant Discharge Elimination System and accompanying Stormwater Pollution Prevention Plan.
  - F) A "Closed Mud System" may be used if technically feasible and available at the time of drilling operations. If so, the reserve pit will be reduced in size.
- 10) PIPELINES AND FLOWLINES  
*A separate Right-of-Way (ROW) application for the pipeline route will be submitted separately after consultation with the USFS.*
- 11) PLANS FOR RECLAMATION OF THE SURFACE:
- A) Salvaging and spreading topsoil will not be performed when the ground or topsoil is frozen or too wet to adequately support construction equipment. If such equipment creates ruts in excess of four (4) inches deep, the soil will be deemed too wet.
  - B) Earthwork for interim and final reclamation must be completed within six (6) months of well completion or plugging (weather permitting).
  - C) In areas that will not be drill-seeded, the seed mix will be broadcast-seeded at twice the application rate shown and covered 0.25 to 0.5 inches deep with a harrow or drag bar or will be broadcast-seeded into imprints, such as fresh dozer cleat marks.

- D) No seeding will occur from May 15 to September 15. Fall seeding is preferred and will be conducted after September 15 and prior to ground freezing. Spring seeding will be conducted after the frost leaves the ground and no later than May 15.
- E) Annual or noxious weeds shall be controlled on all disturbed areas as directed by the Field Office Manager. An intensive weed monitoring and control program will be implemented beginning the first growing season after interim and final reclamation. Noxious weeds that have been identified during monitoring will be promptly treated and controlled. A Pesticide Use Proposal (PUP) will be submitted to the USFS/BLM for approval prior to the use of herbicides. All reclamation equipment will be cleaned prior to use to reduce the potential for introduction of noxious weeds or other undesirable non-native species. The operator will coordinate all weed and insect control measures with state and/or local management agencies.
- F) Reclaimed areas will be monitored annually. Actions will be taken to ensure that reclamation standards are met as quickly as reasonably practical.
- G) Reclamation monitoring will be documented in a reclamation report and submitted to the AO. The report will document compliance with all aspects of the reclamation objectives and standards, identify whether the reclamation objectives and standards are likely to be achieved in the near future without additional actions, and identify actions that have been or will be taken to meet the objectives and standards. The report will also include acreage figures for: Initial Disturbed Acres; Successful Interim Reclaimed Acres; Successful Final Reclaimed Acres. Reports will not be submitted for sites approved by the AO in writing as having met interim or final reclamation standards. Any time 30% or more of a reclaimed area is redisturbed, monitoring will be reinitiated.
- H) The AO will be informed when reclamation has been completed, is successful, and the site is ready for final inspection.

#### INTERIM RESTORATION (Production)

- A) Rehabilitation of unneeded, previously disturbed areas will consist of backfilling and contouring the reserve pit area, back sloping and contouring all cut/fill slopes. These areas will be re-seeded.
- B) Wellpad size will be reduced to minimum size necessary to conduct safe operations. Cut/fills will be reduced to 3:1 or shallower.
- C) Reserve pits will be closed and backfilled as soon as the pit contents are dry enough to do so, or no later than the end of the next full summer following rig release, whichever comes first, to allow sufficient time for the pit contents to dry. Reserve pits remaining open after this period will require written authorization of the AO. Immediately upon well completion, any hydrocarbons or trash in the reserve and flare pits will be removed. Pits will be allowed to dry, be pumped dry, or solidified in-situ prior to backfilling.
- D) Following completion activities, pit liners will be removed or removed to the solids level and disposed of at an approved landfill, or treated to prevent their reemergence to the surface and interference with long-term successful revegetation. If it was necessary to line the pit with a synthetic liner, the pit will not be trenched (cut) or filled (squeezed) while containing fluids. When dry, the pit will be backfilled with a minimum of five (5) feet of soil material. In relatively flat areas, the pit area will be slightly mounded to allow for settling and to promote surface drainage away from the backfilled pit.
- E) The portions of the cleared well site not needed for operational and safety purposes will be recontoured to the original contour if feasible, or if not feasible, to an interim contour that

- blends with the surrounding topography as much as possible. Sufficient level area will remain for setup of a workover rig and to park equipment. In some cases, rig anchors may need to be pulled and reset after recontouring to allow for maximum interim reclamation.
- F) Topsoil will be evenly respread and aggressively revegetated over the entire disturbed area not needed for all-weather operations including road cut/fills and to within a few feet of the production facilities, unless an all-weather, surfaced, access route or small "teardrop" turnaround is needed on the well pad.
- G) Initial seedbed preparation will consist of backfilling, leveling, and ripping all compacted areas. Final seedbed preparation will consist of contour cultivating to a depth of 4 to 6 inches within 24 hours prior to seeding. Seeding will be conducted no more than 24 hours following completion of final seedbed preparation. A certified weed-free seed mix designed by USFS/BLM (shown below) to meet reclamation standards will be used. The seed mix will be used on all disturbed surfaces including pipelines and road cut/fill slopes.
- H) To help mitigate the contrast of recontoured slopes, reclamation will include measures to feather cleared lines of vegetation and to save and redistribute cleared trees, debris, and rock over recontoured cut/fill slopes.
- D) A proposed seed mixture for this location is:
- 4.80#/acre PLS – Sand bluestem (Elida, Garden)
  - 0.20#/acre PLS – Sand lovegrass (Bend)
  - 1.35#/acre PLS – Switchgrass (Granvillo or Blackwolf)
  - 1.30#/acre PLS – Prairie sandreed (Goshen)
  - 1.60#/acre PLS – Western Wheatgrass (Arriba or Barton)
  - 9.25#/acre PLS – TOTAL
- J) Reclamation will be considered successful if the following criteria are met:
- 70 percent of predisturbance cover
  - 90 percent dominate species\*
  - Erosion features equal to or less than surrounding area
- The vegetation will consist of species included in the seed mix and/or occurring in the surrounding natural vegetation.

#### FINAL RESTORATION (P & A – Removal of equipment)

- A) Flowlines on location will be removed before site reclamation and all flowlines between the wellsite and production facilities will remain in place and will be filled with water.
- B) If necessary to ensure timely revegetation, the pad will be fenced to USFS standards to exclude livestock grazing for the first two growing seasons or until seeded species become firmly established, whichever comes later. Fencing will meet standards found on page 18 of the BLM Gold Book, 4<sup>th</sup> Edition, or will be fenced with operational electric fencing.
- C) Revegetation will be accomplished by planting mixed grasses as specified below. Revegetation is recommended for road area as well as around production site.
- D) A proposed seed mixture for this location is:
- 4.80#/acre PLS – Sand bluestem (Elida, Garden)
  - 0.20#/acre PLS – Sand lovegrass (Bend)
  - 1.35#/acre PLS – Switchgrass (Granvillo or Blackwolf)
  - 1.30#/acre PLS – Prairie sandreed (Goshen)
  - 1.60#/acre PLS – Western Wheatgrass (Arriba or Barton)
  - 9.25#/acre PLS – TOTAL

- E) Initial seedbed preparation will consist of backfilling, leveling, and ripping all compacted areas. Final seedbed preparation will consist of contour cultivating to a depth of 4 to 6 inches within 24 hours prior to seeding. Seeding will be conducted no more than 24 hours following completion of final seedbed preparation. A certified weed-free seed mix designed by USFS (shown above) to meet reclamation standards will be used. The seed mix will be used on all disturbed surfaces including pipelines and road cut/fill slopes.
- F) Distribute topsoil, if any remains, evenly over the location, and seed according to the above seed mixture. If needed the access road and location shall be ripped or disked prior to seeding. Perennial vegetation must be established. Additional work shall be required in case of seeding failures, etc.
- G) All disturbed areas, including roads, pipelines, pads, production facilities, and interim reclaimed areas will be recontoured to the contour existing prior to initial construction or a contour that blends indistinguishably with the surrounding landscape. Resalvaged topsoil will be spread evenly over the entire disturbed site to ensure successful revegetation. To help mitigate the contrast of recontoured slopes, reclamation will include measures to feather cleared lines of vegetation and to save and redistribute cleared trees, woody debris, and large rocks over recontoured cut/fill slopes.

12) General Information

- A) Project area is situated in the undulated uplands of the western part of the Uintah Basin.
- B) Topographic and geologic features - moderate relief area, moderately drained, sand-clay deposition, surrounded by steep uplands with highly eroded drainages.
- C) Soil characteristics – clay loam.
- D) Flora consists of: Piñon pine, Juniper, Sagebrush, and short grasses. Please refer to archaeological report and botany report to be included in the NEPA document.
- E) Fauna – none observed. Please refer to the wildlife report to be included in the NEPA document.
- F) Concurrent surface use - grazing and hunting.
- G) Mineral Lessor:  
Bureau of Land Management, Vernal Field Office  
170 South 500 East, Vernal, UT 84078  
Phone: 435-781-4400; Fax: 435-781-4410
- H) Surface Management Agency:  
U.S. Forest Service, Duchesne Ranger District  
85 W. Main St., Duchesne, UT 84021  
Phone: 435-738-2482; Fax: 435-781-5215
- I) Proximity of water, occupied dwellings or other features: un-named intermittent drainage  $\pm 300'$  to the southeast; flowing into Gilsonite Draw.
- J) Archaeological, cultural and historical information for the new construction on federal lands will be submitted separately by Montgomery Archaeological Consultants.
- K) If any fossils are discovered during construction, the operator shall cease construction immediately and notify the AO so as to determine the significance of the discovery.
- L) A Class III (100% pedestrian) cultural resource inventory shall be completed prior to disturbance by a qualified professional archaeologist in the following areas: Well location. A report of the inventory will be submitted and approved by the BLM with stipulations as appropriate in order to comply with EO 11593 and Section 106 of the National Historic Preservation Act of 1966. See Section "General Information – K" above.

- M) The operator is responsible for informing all persons in the area who are associated with this project that they will be 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 is to immediately stop work that might further disturb such materials, and contact the AO. The AO will inform the operator as to the work needed to determine the following:
- 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 (assuming in site preservation is not necessary); and,
  - A timeframe for the AO to complete an expedited review to acquire the State Historic Preservation Officer's concurrence that the findings of the AO are correct and that mitigation is appropriate.
- N) Vantage maintains a file, per 29 CFR 1910.1200(g) containing current Material Safety Data Sheets (MSDS) for all chemicals, compounds, and/or substances which are used during the course of construction, drilling, completion, and production operations for this project. Hazardous materials (substances) which may be transported across these lands may include drilling mud and cementing products which are primarily inhalation hazards, fuels (flammable and/or combustible), materials that may be necessary for well completion/stimulation activities such as flammable or combustible substances and acids/gels (corrosives). The opportunity for Superfund Amendments and Reauthorization Act (SARA) listed Extremely Hazardous Substances (EHS) at the site is generally limited to proprietary treating chemicals. All hazardous substances, EHS, and commercial preparations will be handled in an appropriate manner to minimize the potential for leaks or spills to the environment.

Vantage Energy Uinta LLC

**GDU 63-7-31**

SHL: 2,167' FSL 562' FWL (NW/4 SW/4)

BHL: ±1,980' FSL ±660' FWL (NW/4 SW/4) within a 60' radius

Sec. 7 T6S R3W

Duchesne County, Utah

Federal Lease: UTU78235

APPLICATION FOR PERMIT TO DRILL  
OPERATOR CERTIFICATION

LESSEE'S OR OPERATOR'S REPRESENTATIVE:

Operator

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

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

Mark Rothenberg – Senior Project Engineer  
John Moran – Senior Drilling Engineer  
Michael Holland – Senior Landman

\*\*+ David Banko – Consulting Petro Engineer  
*david@banko1.com*

\*\*+ Kimberly Rodell – Regulatory Technician  
*kim@banko1.com*

Field Office:

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

Keith Dana – Range Mgmt. Consultant  
Cell: 307-389-8227  
*krlcdana@fascination.com*

- \* Contact to arrange onsite meeting.
- + 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.

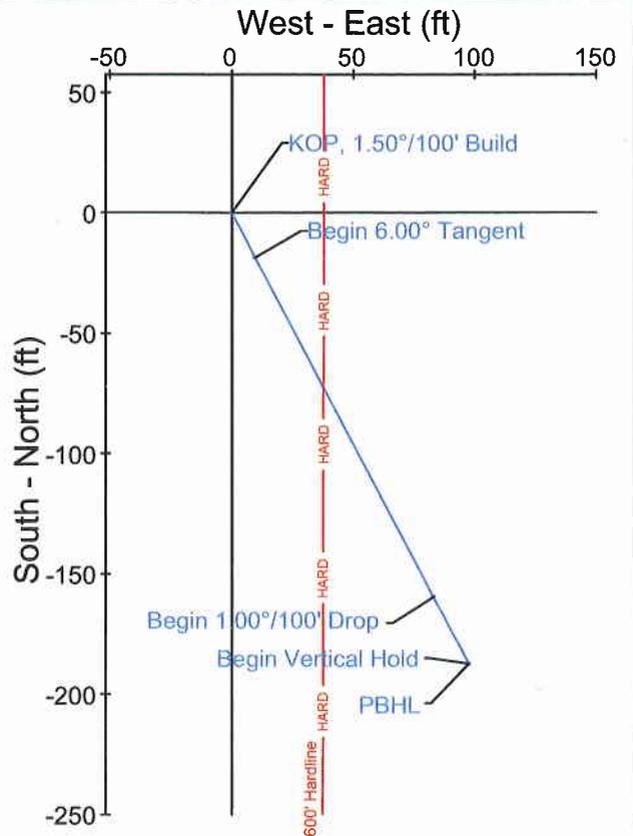
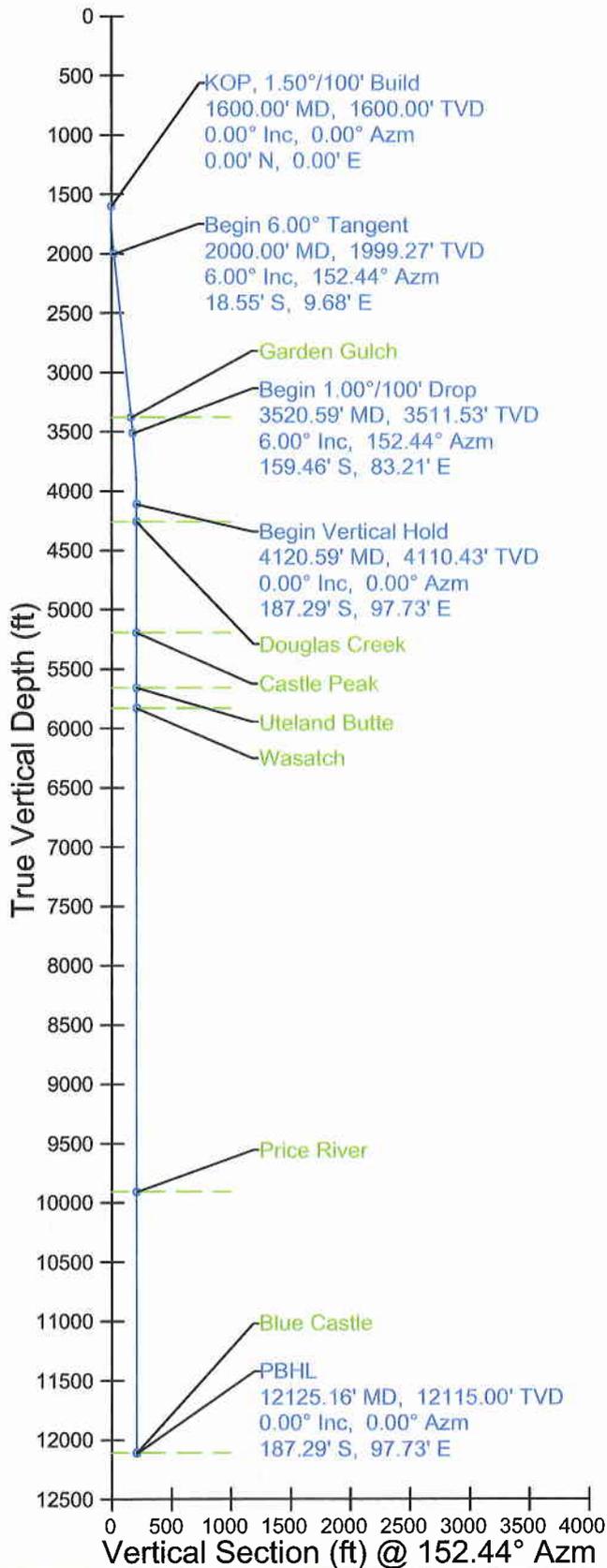
I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of State and Federal laws applicable to this operation; that the statements made in this APD package 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 the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

February 25, 2009



David F. Banko

Permit Agent for Vantage Energy Uinta LLC



Company: Vantage Energy  
 Well: GDU #63-7-31  
 Location: Duchesne County  
 State: Utah  
 Rig:  
 Correction:  
 North: Referenced to True North

Subject: Prop Rev 0  
 File Name: P09073r0.dwg  
 Date: 02/24/2009  
 Drawn By: Bianca LaCombe  
 Planning: (936) 442-2455  
 Fax: (936) 441-6620  
 Operations: (936) 441-6630  
 Fax: (936) 539-1075



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: P09-073  
 Company: Vantage Energy  
 Lease/Well: GDU #63-7-31  
 Location: Duchesne County  
 Rig Name:  
 RKB:  
 G.L. or M.S.L.: 7094'

State/Country: Utah  
 Declination:  
 Grid: Referenced to True North  
 File name: F:\WELLPL~1\2009\PO9070'S\PO9073\09073.SVY  
 Date/Time: 24-Feb-09 / 11:00  
 Curve Name: Prop Rev 0

WINSERVE PROPOSAL REPORT  
 Minimum Curvature Method  
 Vertical Section Plane 152.44  
 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
<b>KOP, 1.50°/100' Build</b>									
1600.00	.00	.00	1600.00	.00	.00	.00	.00	.00	.00
1700.00	1.50	152.44	1699.99	-1.16	.61	1.31	1.31	152.44	1.50
1800.00	3.00	152.44	1799.91	-4.64	2.42	5.23	5.23	152.44	1.50
1900.00	4.50	152.44	1899.69	-10.44	5.45	11.77	11.77	152.44	1.50
<b>Begin 6.00° Tangent</b>									
2000.00	6.00	152.44	1999.27	-18.55	9.68	20.92	20.92	152.44	1.50
<b>Garden Gulch</b>									
3388.34	6.00	152.44	3380.00	-147.21	76.82	166.05	166.05	152.44	.00
<b>Begin 1.00°/100' Drop</b>									
3520.59	6.00	152.44	3511.53	-159.46	83.21	179.87	179.87	152.44	.00
3620.59	5.00	152.44	3611.07	-167.96	87.65	189.45	189.45	152.44	1.00
3720.59	4.00	152.44	3710.76	-174.92	91.28	197.30	197.30	152.44	1.00
3820.59	3.00	152.44	3810.57	-180.33	94.10	203.40	203.40	152.44	1.00
3920.59	2.00	152.44	3910.47	-184.20	96.12	207.77	207.77	152.44	1.00
4020.59	1.00	152.44	4010.44	-186.52	97.33	210.38	210.38	152.44	1.00
<b>Begin Vertical Hold</b>									
4120.59	.00	.00	4110.43	-187.29	97.73	211.26	211.26	152.44	1.00
<b>Douglas Creek</b>									
4270.16	.00	.00	4260.00	-187.29	97.73	211.26	211.26	152.44	.00

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
<b>Castle Peak</b>									
5205.16	.00	.00	5195.00	-187.29	97.73	211.26	211.26	152.44	.00
<b>Uteland Butte</b>									
5670.16	.00	.00	5660.00	-187.29	97.73	211.26	211.26	152.44	.00
<b>Wasatch</b>									
5840.16	.00	.00	5830.00	-187.29	97.73	211.26	211.26	152.44	.00
<b>Price River</b>									
9920.16	.00	.00	9910.00	-187.29	97.73	211.26	211.26	152.44	.00
<b>Blue Castle</b>									
12120.16	.00	.00	12110.00	-187.29	97.73	211.26	211.26	152.44	.00
<b>PBHL</b>									
12125.16	.00	.00	12115.00	-187.29	97.73	211.26	211.26	152.44	.01

TABLE 8  
Vantage Energy Uinta LLC  
**GDU 63-7-31**  
Surface: NW/4 SW/4 Sec. 7 T6S R3W  
BHL: NW/4 SW/4 Sec. 7 T6S R3W  
Duchesne County, Utah  
Wells Within a 2-Mile Radius

API Well Number	Operator	Well Name	Well Status	Well Type	Coalbed Methane Well?	Field Name	Surface Ownership	Mineral Lease	County	Qtr/Qtr	Sec.	Township -Range	FNL/ FSL	FEL/ FWL	Elev. GR	TD		
43-013-11008	DIAMOND SHAMROCK EXPL	PINON FED 1	Plugged and Abandoned	Unknown	No	UNDESIGNATED	Federal	Federal	DUCHESNE	NENW	5	6S-3W	584	N	2009	W	5979	
43-013-11086	SINCLAIR OIL CORPORATION	GILSONITE DRAW 1	Plugged and Abandoned	Unknown	No	WILDCAT	Federal	Federal	DUCHESNE	NWNW	20	6S-3W	1120	N	1120	W	7059	10508
43-013-32939	EOG RESOURCES, INC.	GILSONITE 1-20	Returned APD (Unapproved)	Gas Well	No	WILDCAT	Federal	Federal	DUCHESNE	NWNW	20	6S-3W	1205	N	1202	W	7062	
43-013-34037	VANTAGE ENERGY UINTA LLC	GILSONITE 1-20	Shut-In	Oil Well	No	WILDCAT	Federal	Federal	DUCHESNE	NWNW	20	6S-3W	1205	N	1202	W	7060	
43-013-33449	BERRY PETROLEUM COMPANY	FEDERAL 8-1-64	Producing	Oil Well	No	UNDESIGNATED	Federal	Federal	DUCHESNE	SENE	1	6S-4W	1846	N	863	E	6409	5620
43-013-33581	BERRY PETROLEUM COMPANY	FEDERAL 8-2D-64	Producing	Oil Well	No	UNDESIGNATED	Federal	Federal	DUCHESNE	SENE	2	6S-4W	1317	N	1273	E	6499	5780
43-013-34018	BERRY PETROLEUM COMPANY	FEDERAL 2-2D-64	Producing	Oil Well	No	UNDESIGNATED	Federal	Federal	DUCHESNE	NENE	2	6S-4W	1310	N	1294	E	6500	5790
43-013-10173	MEDALLION EXPLORATION	ANTELOPE CREEK 1	Plugged and Abandoned	Dry Hole	No	WILDCAT	Federal	Federal	DUCHESNE	NENE	24	6S-4W	548	N	519	E	7302	6079
43-013-11009	DIAMOND SHAMROCK EXPL	PINON FED 2	Plugged and Abandoned	Unknown	No	SOWERS CANYON	Federal	Federal	DUCHESNE	SWNW	24	6S-4W	1993	N	737	W		5768

# Vantage Energy Uinta LLC

## LOCATION LAYOUT FOR

GDU #63-7-31

SECTION 7, T6S, R3W, U.S.B.&M.

2167' FSL 562' FWL

**FIGURE #1**

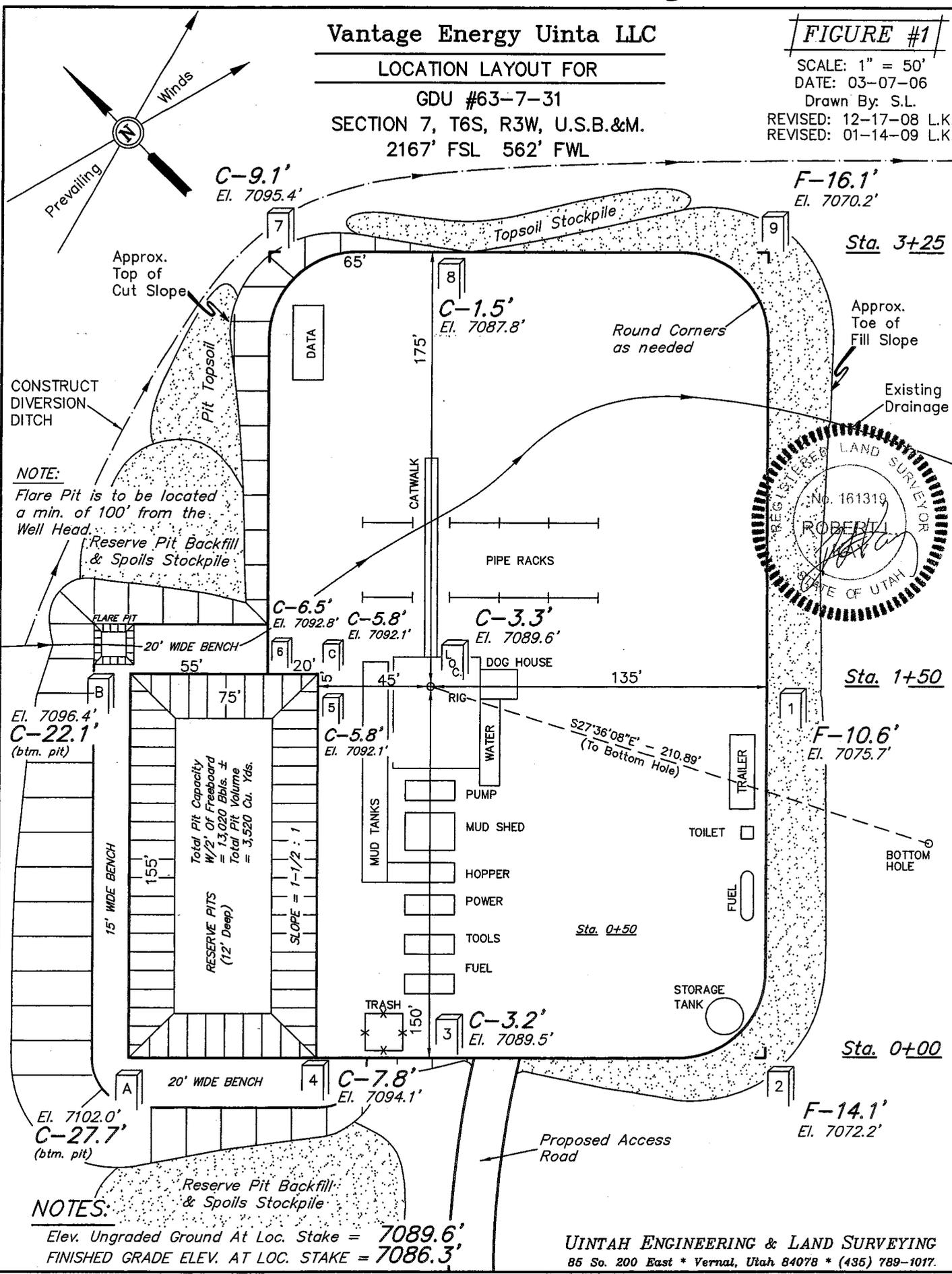
SCALE: 1" = 50'

DATE: 03-07-06

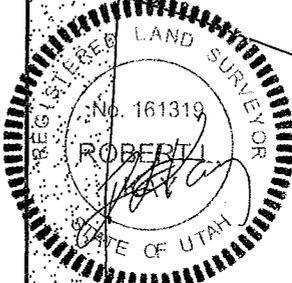
Drawn By: S.L.

REVISED: 12-17-08 L.K.

REVISED: 01-14-09 L.K.



**NOTE:**  
Flare Pit is to be located a min. of 100' from the Well Head.  
Reserve Pit Backfill & Spoils Stockpile



El. 7096.4'  
**C-22.1'**  
(btm. pit)

15' WIDE BENCH  
155'  
Total Pit Capacity  
W/2' Of Freeboard  
= 13,020 Bbls. ±  
Total Pit Volume  
= 3,520 Cu. Yds.  
RESERVE PITS  
(12' Deep)  
SLOPE = 1-1/2 : 1

El. 7102.0'  
**C-27.7'**  
(btm. pit)

**NOTES:**  
Elev. Ungraded Ground At Loc. Stake = 7089.6'  
FINISHED GRADE ELEV. AT LOC. STAKE = 7086.3'

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

Vantage Energy Uinta LLC

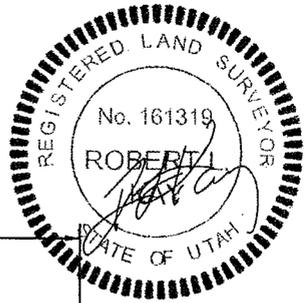
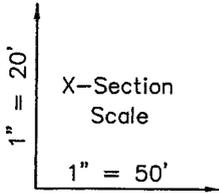
FIGURE #2

TYPICAL CROSS SECTIONS FOR

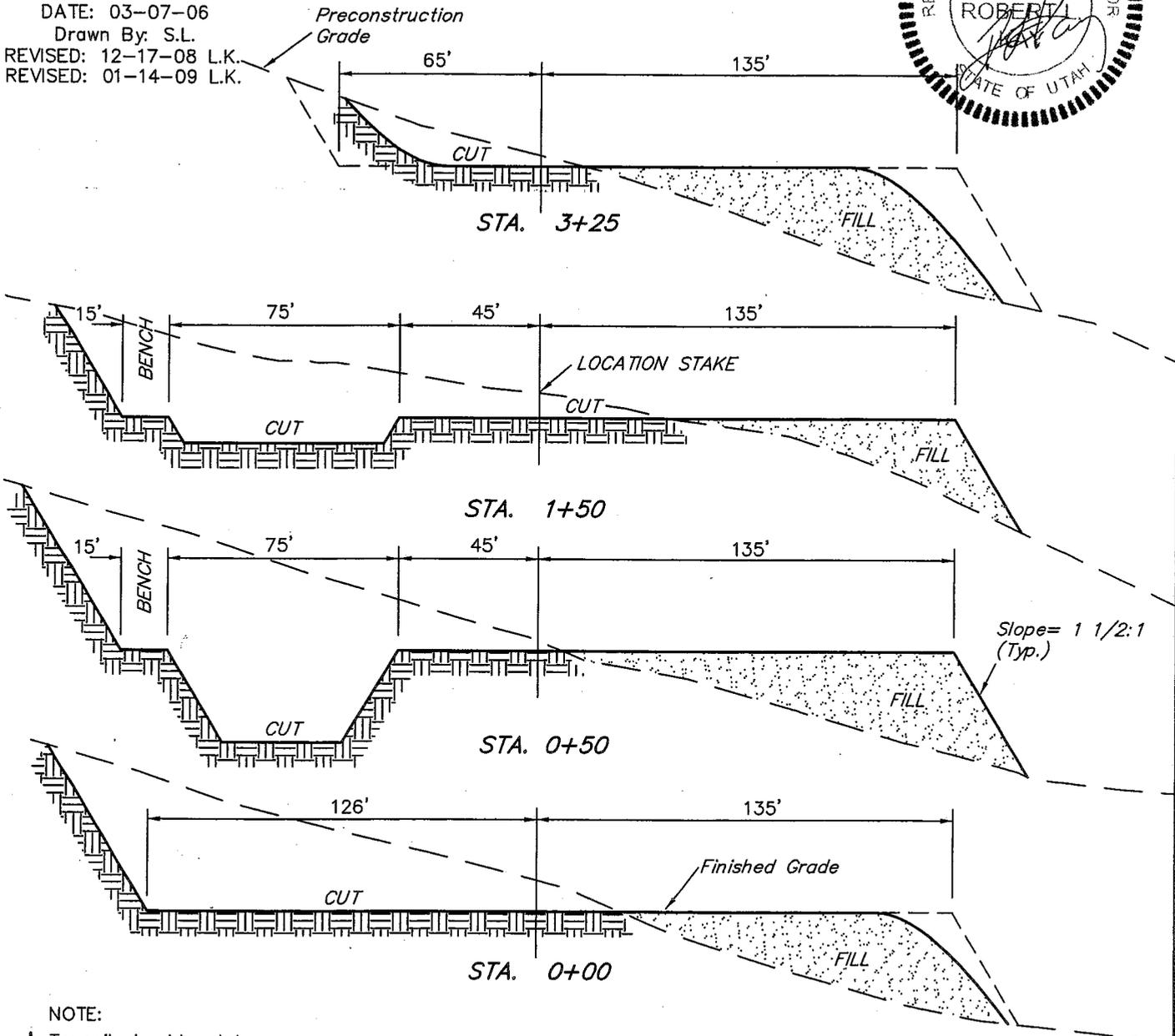
GDU #63-7-31

SECTION 7, T6S, R3W, U.S.B.&M.

2167' FSL 562' FWL



DATE: 03-07-06  
Drawn By: S.L.  
REVISED: 12-17-08 L.K.  
REVISED: 01-14-09 L.K.



NOTE:

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

APPROXIMATE ACREAGES

WELL SITE DISTURBANCE = ± 2.316 ACRES  
ACCESS ROAD DISTURBANCE = ± 0.425 ACRES  
TOTAL = ± 2.741 ACRES

\* NOTE:

FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

<b>CUT</b>	
(6") Topsoil Stripping	= 1,980 Cu. Yds.
Remaining Location	= 15,050 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 17,030 CU.YDS.</b>
<b>FILL</b>	<b>= 13,290 CU.YDS.</b>

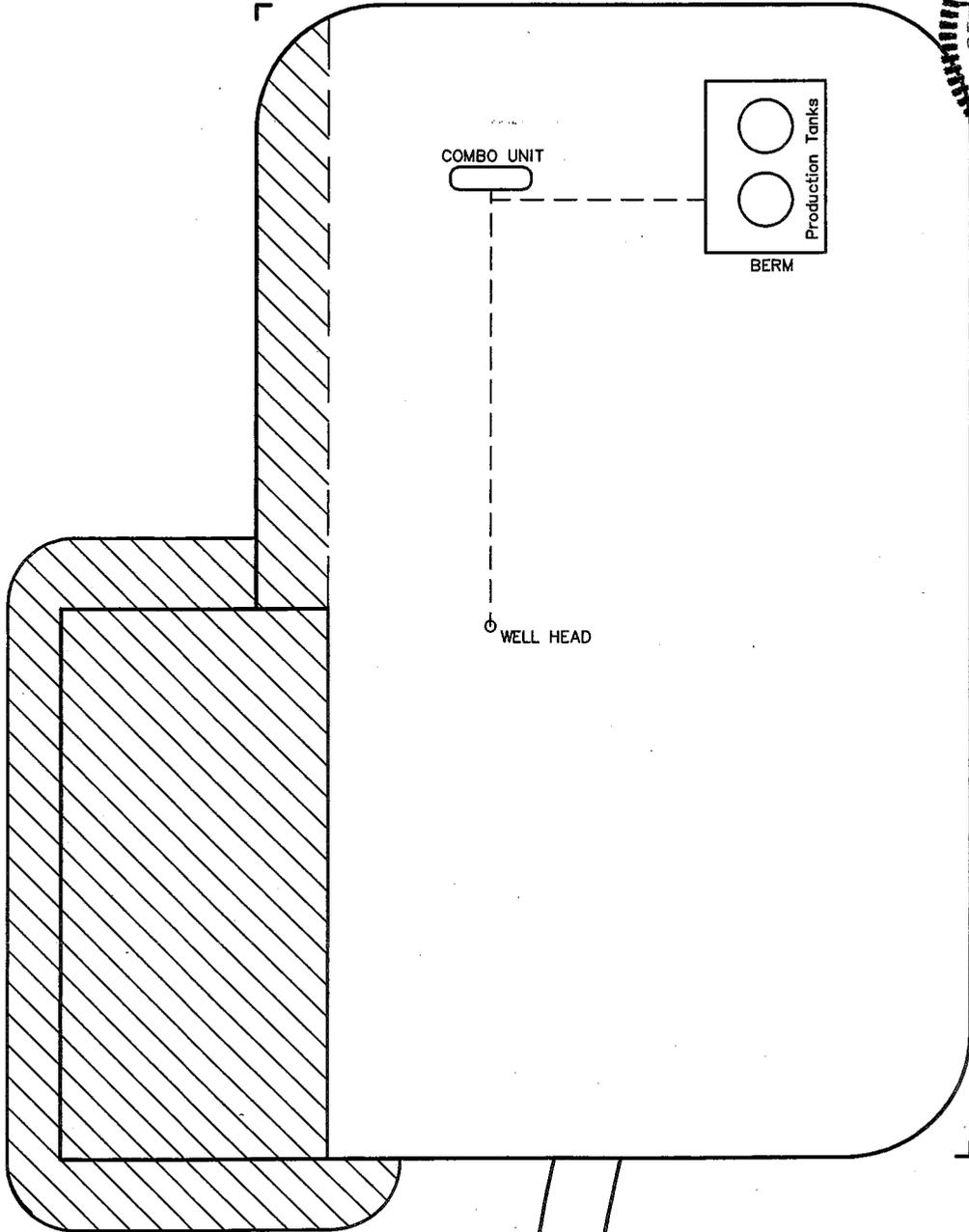
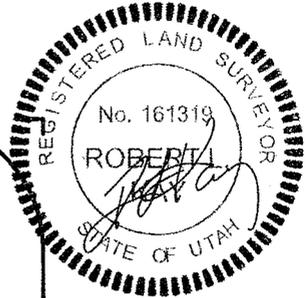
EXCESS MATERIAL	= 3,740 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 3,740 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	= 0 Cu. Yds.

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

Vantage Energy Uinta LLC  
PRODUCTION FACILITY LAYOUT FOR  
GDU #63-7-31  
SECTION 7, T6S, R3W, U.S.B.&M.  
2167' FSL 562' FWL

FIGURE #3

SCALE: 1" = 50'  
DATE: 03-07-06  
Drawn By: S.L.  
REVISED: 12-17-08 L.K.  
REVISED: 01-14-09 L.K.



 RE-HABED AREA

Access Road

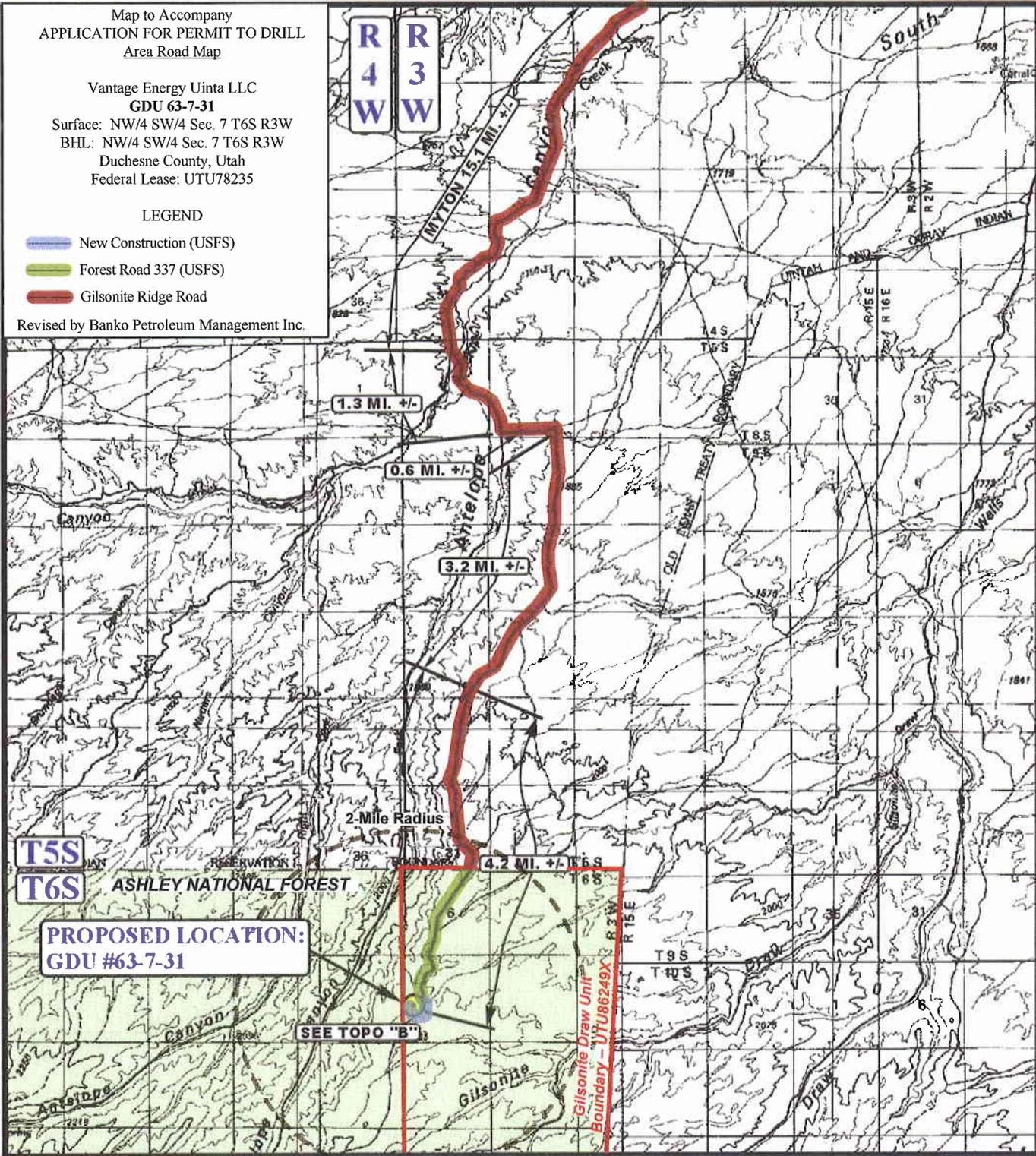
Map to Accompany  
APPLICATION FOR PERMIT TO DRILL  
Area Road Map

Vantage Energy Uinta LLC  
GDU 63-7-31  
Surface: NW/4 SW/4 Sec. 7 T6S R3W  
BHL: NW/4 SW/4 Sec. 7 T6S R3W  
Duchesne County, Utah  
Federal Lease: UTU78235

LEGEND

-  New Construction (USFS)
-  Forest Road 337 (USFS)
-  Gilsonite Ridge Road

Revised by Banko Petroleum Management Inc.



LEGEND:

-  PROPOSED LOCATION



Vantage Energy Uinta LLC

GDU #63-7-31  
SECTION 7, T6S, R3W, U.S.B.&M.  
2167' FSL 562' FWL



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

TOPOGRAPHIC MAP  
11 17 08  
MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: J.J. REV: 12-18-08 L.K.



Map to Accompany  
APPLICATION FOR PERMIT TO DRILL  
Access Road Map

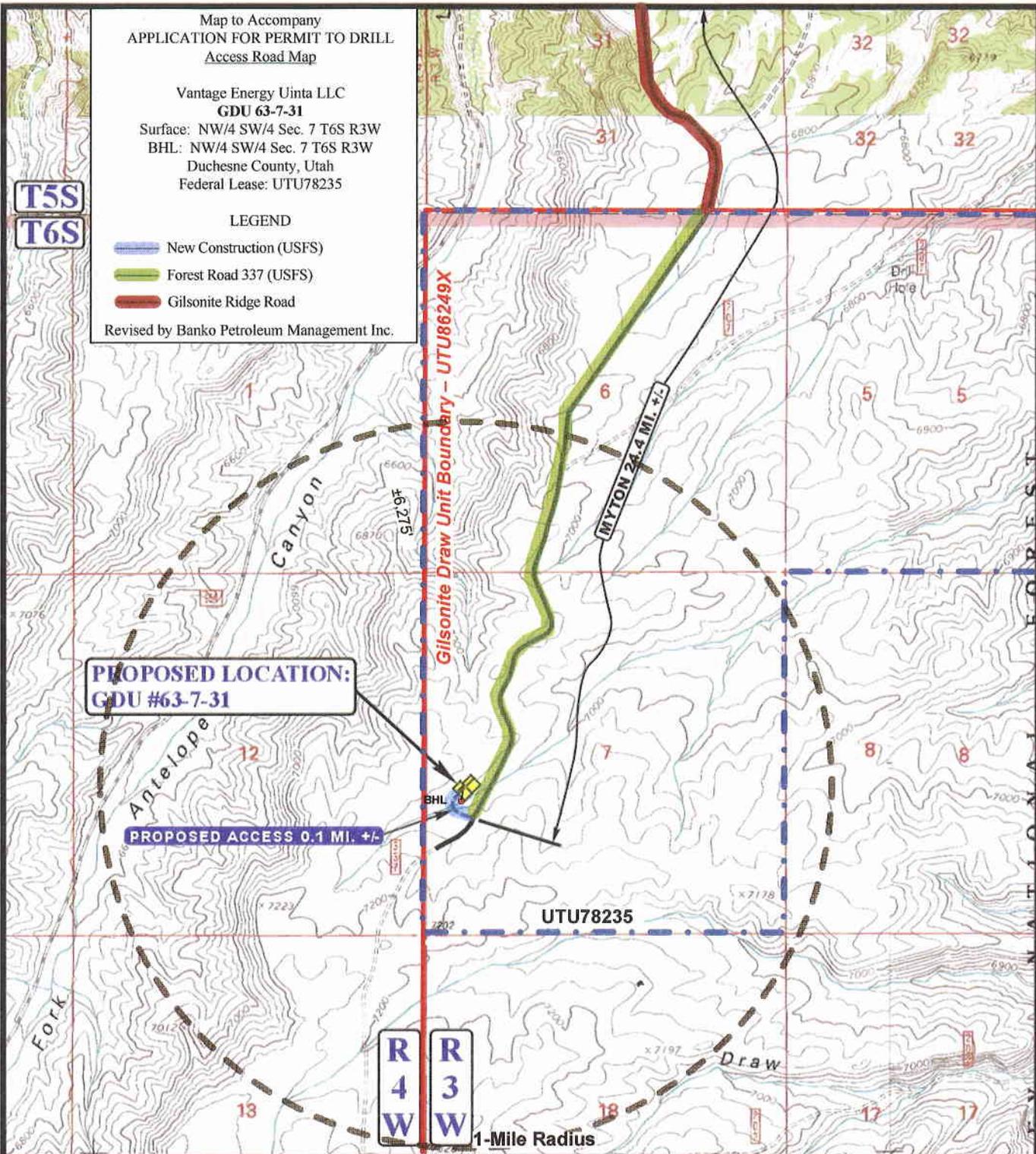
Vantage Energy Uinta LLC  
**GDU 63-7-31**  
Surface: NW/4 SW/4 Sec. 7 T6S R3W  
BHL: NW/4 SW/4 Sec. 7 T6S R3W  
Duchesne County, Utah  
Federal Lease: UTU78235

**T5S**  
**T6S**

LEGEND

-  New Construction (USFS)
-  Forest Road 337 (USFS)
-  Gilsonite Ridge Road

Revised by Banko Petroleum Management Inc.



LEGEND:

-  EXISTING ROAD
-  PROPOSED ACCESS ROAD



Vantage Energy Uinta LLC

**GDU #63-7-31**  
SECTION 7, T6S, R3W, U.S.B.&M.  
2167' FSL 562' FWL



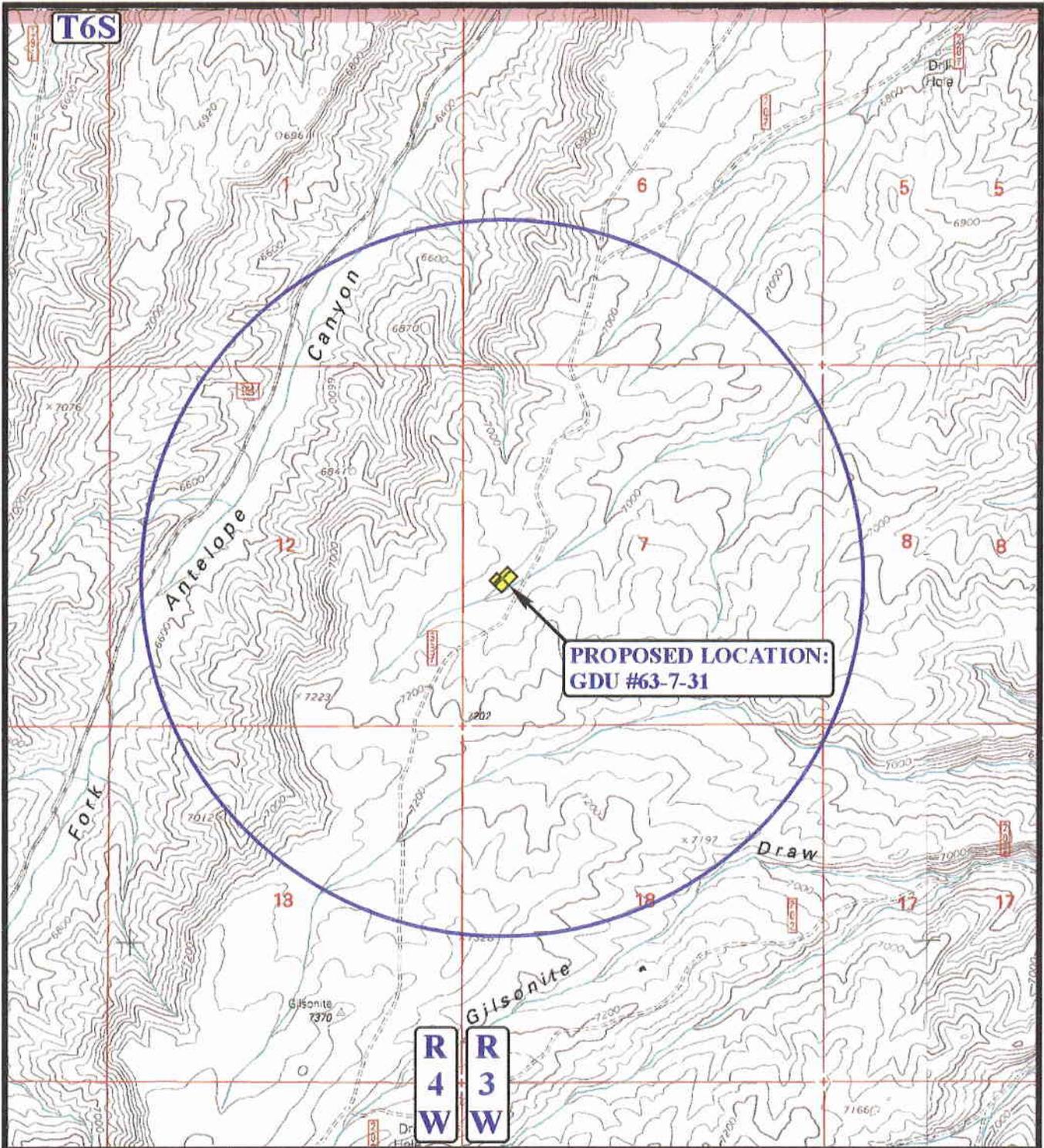
Utah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC**  
**MAP**

**11** **17** **08**  
MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: J.J. REV: 12-18-08 L.K.





**LEGEND:**

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



**Vantage Energy Uinta LLC**

**GDU #63-7-31**  
**SECTION 7, T6S, R3W, U.S.B.&M.**  
**2167' FSL 562' FWL**



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

**TOPOGRAPHIC**  
**MAP**

**11 17 08**  
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: J.J. REV: 12-18-08 L.K.



# Vantage Energy Uinta LLC

GDU #63-7-31

LOCATED IN DUCHESNE COUNTY, UTAH  
SECTION 7, T6S, R3W, U.S.B.&M.



PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: SOUTHEASTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: NORTHWESTERLY



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

<b>LOCATION PHOTOS</b>	<b>11</b>	<b>16</b>	<b>08</b>	<b>PHOTO</b>
	MONTH	DAY	YEAR	
TAKEN BY: M.A.	DRAWN BY: J.J.	REV: 12-18-08 L.K.		

**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 02/26/2009

API NO. ASSIGNED: 43-013-34219

WELL NAME: GDU 63-7-31  
 OPERATOR: VANTAGE ENERGY UINTA ( N3295 )  
 CONTACT: DAVID BANKO

PHONE NUMBER: 303-386-8600

PROPOSED LOCATION:

NWSW 07 060S 030W  
 SURFACE: 2167 FSL 0562 FWL  
 BOTTOM: 1980 FSL 0660 FWL  
 COUNTY: DUCHESNE  
 LATITUDE: 39.97301 LONGITUDE: -110.27225  
 UTM SURF EASTINGS: 562147 NORTHINGS: 4424805  
 FIELD NAME: WILDCAT ( 1 )

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 1 - Federal  
 LEASE NUMBER: UTU78235  
 SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: PRRV  
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. UTB000288 )
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit  
(No. 49-1501 )
- RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )
- Fee Surf Agreement (Y/N)
- Intent to Commingle (Y/N)

LOCATION AND SITING:

- \_\_\_\_ R649-2-3.
- Unit: GILSONITE DRAW
- \_\_\_\_ R649-3-2. General
- Siting: 460 From Qtr/Qtr & 920' Between Wells
- \_\_\_\_ R649-3-3. Exception
- \_\_\_\_ Drilling Unit
- Board Cause No: \_\_\_\_\_
- Eff Date: \_\_\_\_\_
- Siting: \_\_\_\_\_
- R649-3-11. Directional Drill

COMMENTS: \_\_\_\_\_

STIPULATIONS: \_\_\_\_\_

*1. Federal Approval*  
*2. Spacing Strip*

API Number: 4301334219

Well Name: GDU 63-7-31

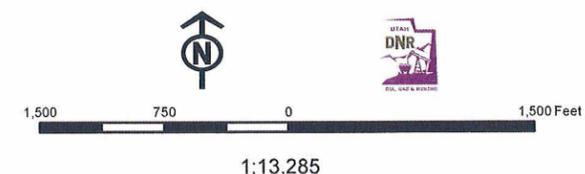
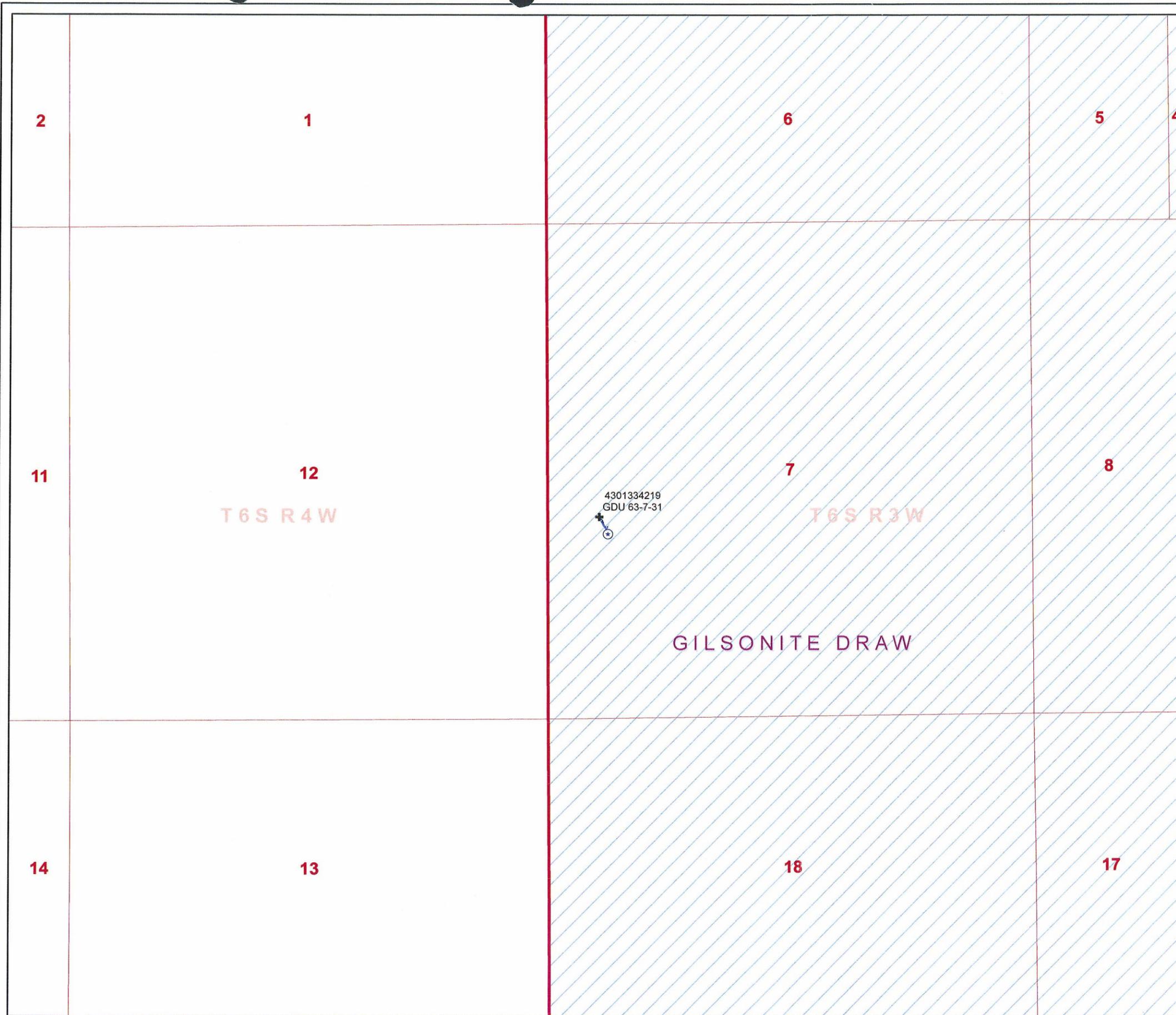
Township 06.0 S Range 03.0 W Section 07

Meridian: UBM

Operator: VANTAGE ENERGY UINTA LLC

Map Prepared:  
Map Produced by Diana Mason

<b>Units</b>	<b>Wells Query Events</b>
<b>STATUS</b>	✕ <all other values>
ACTIVE	GIS_STAT_TYPE
EXPLORATORY	<Null>
GAS STORAGE	APD
NF PP OIL	DRL
NF SECONDARY	GI
PI OIL	GS
PP GAS	LA
PP GEOTHERML	NEW
PP OIL	OPS
SECONDARY	PA
TERMINATED	PGW
<b>Fields</b>	POW
<b>STATUS</b>	RET
ACTIVE	SGW
COMBINED	SOW
Sections	TA
Township	TW
	WD
	WI
	WS



# 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 9, 2009

Memorandum

To: Assistant District Manager Minerals, Vernal District  
From: Michael Coulthard, Petroleum Engineer  
Subject: 2009 Plan of Development Gilsonite Draw 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 2009 within the Gilsonite Draw Unit, Duchesne County, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ Price River)		
43-013-34219	GDU 63-7-31 Sec 07 T06S R03W 2167 FSL 0562 FWL	BHL Sec 07 T06S R03W 1980 FSL 0660 FWL

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

/s/ Michael L. Coulthard

bcc: File – Gilsonite Draw Unit  
Division of Oil Gas and Mining  
Central Files  
Agr. Sec. Chron  
Fluid Chron

MCoulthard:mc:3-9-09



GARY R. HERBERT  
Governor

GREG 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

February 25, 2010

Vantage Energy Uinta LLC  
116 Inverness Dr. East, Suite 107  
Englewood, CO 80112

Subject: GDU 63-7-31 Well, Surface Location 2167' FSL, 562' FWL, NW SW, Sec. 7,  
T. 6 South, R. 3 West, Bottom Location 1980' FSL, 660' FWL, NW SW, Sec. 7,  
T. 6 South, R. 3 West, Duchesne County, Utah

Ladies and Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

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. The API identification number assigned to this well is 43-013-34219.

Sincerely,

Gil Hunt  
Associate Director

GLH/js  
Enclosures

cc: Duchesne County Assessor *vernal*  
Bureau of Land Management, ~~Duchesne~~ Office

**Operator:** Vantage Energy Uinta LLC  
**Well Name & Number** GDU 63-7-31  
**API Number:** 43-013-34219  
**Lease:** UTU78235

**Surface Location:** NW SW      **Sec. 7**      **T. 6 South**      **R. 3 West**  
**Bottom Location:** NW SW      **Sec. 7**      **T. 6 South**      **R. 3 West**

### Conditions of Approval

#### 1. 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.

#### 2. 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 let 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>

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dustin Doucet at (801) 538-5281 office  
(801) 733-0983 after office hours

#### 3. 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:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5<sup>th</sup> 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

- #### 4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

5. 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.
  
6. 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.



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

March 16, 2011

David Banko  
Vantage Energy Uinta LLC  
116 Inverness Drive East, Suite 107  
Englewood, CO 80112

Re: APD Rescinded – GDU 63-7-31, Sec. 7, T. 6S, R. 3W  
Duchesne County, Utah API No. 43-013-34219

Ladies and Gentlemen:

The Application for Permit to Drill (APD) for the subject well was approved by the Division of Oil, Gas and Mining (Division) on February 25, 2010. No drilling activity at this location has been reported to the division. Therefore, approval to drill the well is hereby rescinded, effective March 16, 2011.

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