



November 7, 2007

Ms. Diana Mason  
State of Utah  
Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

RE: Directional Drilling R649-3-11  
Peters Point State 1-2D-13-16 Deep  
SHL: 911' FNL & 1429' FEL, LOT 2, Sec. 2-T13S-R16E  
BHL: 460' FNL & 460' FEL, LOT 1, Sec. 2-T13S-R16E  
Carbon County, Utah

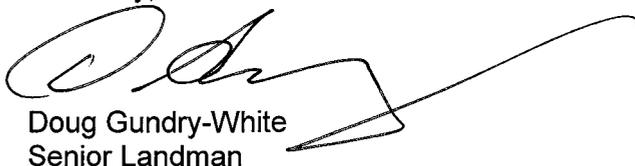
Dear Ms. Mason:

Pursuant to the filing of Bill Barrett Corporation's ("BBC") Application for Permit to Drill ("APD") 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 to Location and Siting of Wells."

- BBC is permitting this well as a directional well to ensure that it is 460 feet from the nearest lease boundary;
- BBC hereby certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

Based on the information provided, BBC requests that the permit be granted pursuant to R649-3-11. If you should have any questions or need further information, please contact me at 303-312-8129.

Sincerely,



Doug Gundry-White  
Senior Landman

1099 18TH STREET  
SUITE 2300  
DENVER, CO 80202  
P 303.293.9100  
F 303.291.0420

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

tfallang  
**CONFIDENTIAL**

FORM 3

AMENDED REPORT   
(highlight changes)

**APPLICATION FOR PERMIT TO DRILL**

1A. TYPE OF WORK: DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>		5. MINERAL LEASE NO: ML48386	6. SURFACE: State
B. TYPE OF WELL: OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER _____ SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>		7. IF INDIAN, ALLOTTEE OR TRIBE NAME: NA	
2. NAME OF OPERATOR: Bill Barrett Corporation		8. UNIT OR CA AGREEMENT NAME: N/A	
3. ADDRESS OF OPERATOR: 1099 18th Street, #2300 CITY Denver STATE CO ZIP 80202		PHONE NUMBER: (303) 312-8134	9. WELL NAME and NUMBER: Peter's Point State 1-2D-13-16 Deep
4. LOCATION OF WELL (FOOTAGES) 578301X 4396931Y 39.720550 - 110.086437 AT SURFACE: Lot 2, 911' FNL, 1429' FEL AT PROPOSED PRODUCING ZONE: NESE 460' FNL, 460' FEL, Sec. 2 578595X 4397072Y 39.721790 - 110.082991		10. FIELD AND POOL, OR WILDCAT: <del>Unassigned Multiple</del> Peters point 40	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: Approx 51 miles from Myton, UT		12. COUNTY: Carbon	13. STATE: UTAH
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) 911'	16. NUMBER OF ACRES IN LEASE: 319	17. NUMBER OF ACRES ASSIGNED TO THIS WELL: 40	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) 1500' (1-2D bottom hole to 8-2D bottom hole)	19. PROPOSED DEPTH: 15,000	20. BOND DESCRIPTION: LPM4138147	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 6792'	22. APPROXIMATE DATE WORK WILL START: 12/15/2007	23. ESTIMATED DURATION: 90 days	

**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" HCP-110 40#	3,000	Halco LT Prem (Lead)	770 sx	1.85 ft3/sk	12.7 ppg
			Premium (Tail)	270 sx	1.15 ft3/sk	15.8 ppg
			Premium (Top out)	200 sx	1.18 ft3/sk	15.6 ppg
8 3/4" and 7 7/8"	4 1/2" P-110 15.1#	15,000	Premium (Marker)	100 sx	1.15 ft3/sk	15.8 ppg
			Halliburton Hi-Fill (Leg)	840 sx	3.23 ft3/sk	11.5 ppg
			50/50 Poz (Primary)	770 sx	1.47 ft3/sk	14.3 ppg

**ATTACHMENTS**

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:

- WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER
- COMPLETE DRILLING PLAN
- EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER
- FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER

NAME (PLEASE PRINT) Tracey Fallang TITLE Environmental/Regulatory Analyst  
SIGNATURE Tracey Fallang DATE 11/7/2007

Approved by the  
Utah Division of  
Oil, Gas and Mining

**RECEIVED**  
NOV 08 2007

API NUMBER ASSIGNED: 40-007-31333

APPROVAL:  
Date: 01-23-08  
By: [Signature]

DIV. OF OIL, GAS & MINING

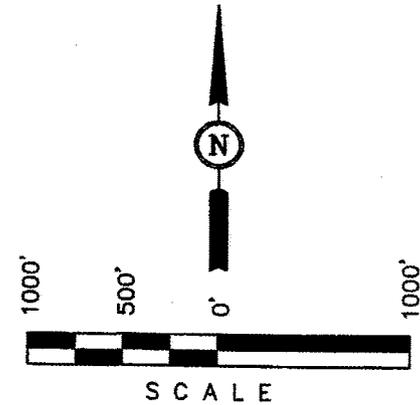
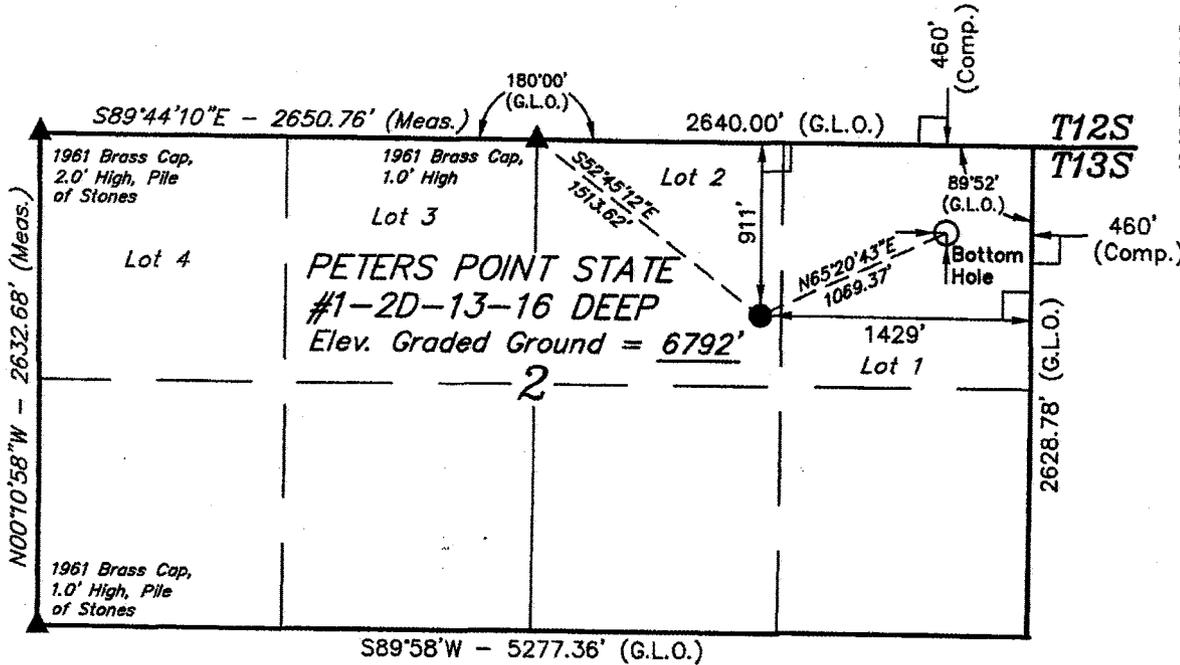
T13S, R16E, S.L.B.&M.

**BILL BARRETT CORPORATION**

Well location, PETERS POINT STATE  
#1-2D-13-16 DEEP, located as shown in  
Lot 2 of Section 2, T13S, R16E, S.L.B.&M.,  
Carbon County, Utah.

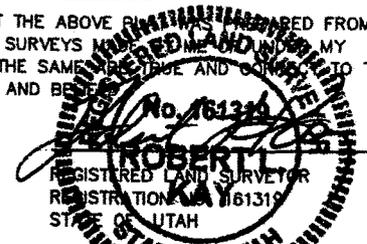
BASIS OF ELEVATION

SPOT ELEVATION AT A WELL HEAD IN THE SW 1/4 OF SECTION 36, T12S, R16E, S.L.B.&M., TAKEN FROM THE CEDAR RIDGE CANYON QUADRANGLE, UTAH, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 6769 FEET.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE REPRESENTS THE TRUE AND CORRECT LOCATION OF THE PROPOSED WELL HEAD AS SHOWN ON THE ABOVE PLAT, AND THAT THE SAME WAS LOCATED AND CORRECTED TO THE BEST OF MY KNOWLEDGE AND BELIEF.



BASIS OF BEARINGS

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

DISTANCE TABLE

FROM	TO	BEARING	DISTANCE
#1-2D-13-16 DEEP	#4-12D	S68°30'30"E	357.59'
#1-2D-13-16 DEEP	#3-2	N75°57'14"W	735.84'
#1-2D-13-16 DEEP	#2-2	N78°05'12"W	750.78'
#1-2D-13-16 DEEP	#5-2	N82°52'08"W	972.37'
#1-2D-13-16 DEEP	#8-2D	S65°12'31"E	127.41'

LEGEND:

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

(AUTONOMOUS NAD 83)  
LATITUDE = 39°43'13.90" (39.720528)  
LONGITUDE = 110°05'13.93" (110.087203)  
(AUTONOMOUS NAD 27)  
LATITUDE = 39°43'14.03" (39.720564)  
LONGITUDE = 110°05'11.39" (110.086497)

**UNTAEH ENGINEERING & LAND SURVEYING**  
86 SOUTH 200 EAST - VERNAL, UTAH 84078  
(801) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 09-25-07	DATE DRAWN: 09-27-07
PARTY D.R. P.M.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE BILL BARRETT CORPORATION	

## DRILLING PLAN

### **BILL BARRETT CORPORATION**

Peter's Point State 1-2D-13-16 Deep  
NWSE, Lot 2, 911' FNL, 1429' FEL, Section 2-T13S-R16E (SHL)  
NESE, Lot 1, 460' FNL, 460' FEL, Section 2-T13S-R16E (BHL)  
Carbon County, Utah

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1 - 2. Estimated Tops of Geological Markers and Formations Expected to Contain Water, Oil and Gas and Other Minerals

<u>Formation</u>	<u>Depth-TVD</u>	<u>Depth - MD</u>
Green River	Surface	Surface
Wasatch	2790'	2790'
North Horn	4623'	4630'
Dark Canyon	6124'	6138'
Price River	6315'	6330'
Bluecastle	7416'	7437'
Neslen	7717'	7739'
Castlegate	8074'	8098'
Blackhawk	8275'	8300'
Kenilworth	8594'	8621'
Aberdeen	8814'	8842'
Spring Canyon	8915'	8943'
Mancos*	9042'	9071'
Mancos B	9114'	9143'
Juana Lopez	12,569'	12,616'
Dakota Silt	12,772'	12,820'
Dakota*	12,905'	12,953'
Cedar Mountain	13,038'	13,087'
Morrison	13,099'	13,148'
Curtis	13,812'	13,864'
Entrada*	14,070'	14,122'
Carmel	14,243'	14,295'
Navajo*	14,514'	14,566'
Kayenta	14,591'	14,643'
Wingate*	14,641'	14,693'
TD	15,000'	14,900'

\*Prospective Pay – The Navajo, Entrada and Dakota are primary objectives for oil/gas while the Mancos is a secondary objective.

3. **BOP and Pressure Containment Data**

<b>Depth Intervals</b>	<b>BOP Equipment</b>
0 – 3000'	No pressure control required
3000' – TD	11" or 13 3/8" 10,000# Ram Type BOP 11" or 13 3/8" 5,000# Annular BOP
- Drilling spool to accommodate choke and kill lines;	
- Ancillary equipment and choke manifold rated at 10,000#. All well control equipment will be in accordance with the requirements of R649-3-7.	
- The State of Utah, Division of Oil, Gas and Mining, will be notified 24 hours in advance of all BOP pressure tests.	
- BOP hand wheels may be underneath the sub-structure of the rig if the drilling rig used is set up to operate most efficiently in this manner.	

4. **Casing Program**

<b>Purpose</b>	<b>Hole Size</b>	<b>SETTING DEPTH (MD)</b>		<b>O.D.</b>	<b>Weight</b>	<b>Grade</b>	<b>Thread</b>	<b>Condition</b>
		<b>(FROM)</b>	<b>(TO)</b>					
Surface	12 1/4"	Surface	3,000'	9 5/8"	40#	HCP-110	LT&C	New
Production	8 3/4" & 7 7/8"	Surface	15,000'	4 1/2"	15.1#	P-110	LT&C	New
- 8 3/4" hole from 3000' – 13,000', 7 7/8" hole from 13,000' – 15,000'								
- Any substitute casing string shall have equivalent or greater collapse, tension and burst properties.								
- The State of Utah, Division of Oil, Gas and Mining, will be notified 24 hours in advance of all casing tests performed in accordance with R649-3-13.								

5. **Cementing Program**

<b>Casing Type</b>	<b>Cement Type and Amount</b>
9 5/8" Surface Casing	Lead with approximately 770 sx Halliburton Light Premium with additives mixed at 12.7 ppg (yield = 1.85 ft <sup>3</sup> /sx), tail with approximately 270 sx Premium cement with additives mixed at 15.8 ppg (yield = 1.15 ft <sup>3</sup> /sx) and top out, if necessary, with 200 sx Premium Plus cement with additives mixed at 15.6 ppg (yield = 1.18 ft <sup>3</sup> /sx ) circulated to surface with 80% excess.
4 1/2" Production Casing	Approximately 100 sx Premium Cement with additives mixed at 15.8 ppg (yield = 1.15 ft <sup>3</sup> /sx) followed by 840 sx Halliburton Hi-Fill cement with additives mixed at 11.5 ppg (yield 3.23 ft <sup>3</sup> /sx) and then followed with 770 sx 50/50 Poz Premium cement with additives mixed at 14.3 ppg (yield = 1.47 ft <sup>3</sup> /sx). Top of cement to be determined by log and sample evaluation, estimated TOC 3000'.
Note: Actual volumes to be calculated from caliper log.	

6. **Mud Program**

<u>Interval</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss (API filtrate)</u>	<u>Remarks</u>
0 – 3000'	8.3 – 9.0	26 – 36	--	Freshwater/Aquagel/EZ-Mud
3,000 – TD	8.6 – 12.5	42 – 52	15 cc or less	Freshwater/DAP Polymer
Note: Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kicks" will be available at wellsite. If deviation problems and increased torque and drag occur, #2 diesel oil with ENVIRO-TORQ / EZ-GLIDE may be added for reduction and increased ROP.				

7. **Testing, Logging and Core Programs**

Cores	None anticipated;
Testing	None anticipated; drill stem tests may be run on shows of interest;
Sampling	30' to 50' samples; surface casing to TD. Preserve samples all show intervals;
Surveys	Run every 1000' and on trips, slope only;
Logging	DIL-GR-SP, FDC-CNL-GR-CAL-Pe-Microlog, Sonic-GR, all TD to surface.

8. **Anticipated Abnormal Pressures or Temperatures**

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated bottom hole pressure equals approximately 9685 psi\* and maximum anticipated surface pressure equals approximately 6407 psi\*\* (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

\*Max Mud Wt x 0.052 x TD = A (bottom hole pressure)

\*\*Maximum surface pressure = A – (0.22 x TD)

9. **Auxiliary equipment**

- a) Upper kelly cock; lower Kelly cock will be installed while drilling
- b) Inside BOP or stab-in valve (available on rig floor)
- c) Safety valve(s) and subs to fit all string connections in use
- d) Mud monitoring will be visually observed

10. **Drilling Schedule**

Location Construction: Begin immediately upon receipt of APD  
 Spud: December 2007  
 Duration: 60 days drilling time  
 30 days completion time

Bill Barrett Corporation  
Drilling Program  
Peter's Point State 1-2D-13-16 Deep  
Carbon County, Utah

**11. Water Source**

Bill Barrett Corporation will use water consistent with approvals granted by the Utah State Engineer's Office under Application Number 90-1846 (T76109) which expires March 27, 2008.

**12. Archaeology**

Montgomery Archaeological Consultants conducted a Class III archeological inventory of the Peter's Point State 8-2D-13-16 Deep (MOAC 07-134), which also covers the area for this pad. Cultural clearance has been recommended.

Well name:	<b>Peters Point 1-2D-13-17</b>
Operator:	<b>Bill Barrett Corporation</b>
String type:	<b>Surface</b>
Location:	<b>NENE Sec. 2, T13S-R16E</b>

**Design parameters:**

Collapse

Mud weight: 8.80 ppg

Design is based on evacuated pipe.

Burst

Max anticipated surface

pressure: 2,145 psi

Internal gradient: 0.22 psi/ft

Calculated BHP 2,805 psi

No backup mud specified.

**Minimum design factors:**

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Tension:

8 Round STC: 1.80 (J)

8 Round LTC: 1.80 (J)

Buttress: 1.80 (J)

Premium: 1.80 (J)

Body yield: 1.80 (B)

Tension is based on buoyed weight.

Neutral point: 2,607 ft

**Environment:**

H2S considered? No

Surface temperature: 75.00 °F

Bottom hole temperature: 117 °F

Temperature gradient: 1.40 °F/100ft

Minimum section length: 1,500 ft

Cement top:

Surface

**Non-directional string.**

**Re subsequent strings:**

Next setting depth: 14,713 ft

Next mud weight: 10.600 ppg

Next setting BHP: 8,102 psi

Fracture mud wt: 18.000 ppg

Fracture depth: 3,000 ft

Injection pressure 2,805 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	3000	9.625	40.00	HCP-110	LT&C	3000	3000	8.75	238.6

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	1371	4230	3.084	2805	7900	2.82	104	988	9.47 J

Prepared Dominic Spencer  
by: Bill Barrett

Phone: (303) 312-8164  
FAX: (303) 312-8195

Date: November 5, 2007  
Denver, Colorado

Remarks:

Collapse is based on a vertical depth of 3000 ft, a mud weight of 8.8 ppg. The casing is considered to be evacuated for collapse purposes.

Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

*Engineering responsibility for use of this design will be that of the purchaser.*

Well name:	<b>Peters Point 1-2D-13-17</b>
Operator:	<b>Bill Barrett Corporation</b>
String type:	<b>Production</b>
Location:	<b>NENE Sec. 2, T13S-R16E</b>

**Design parameters:**

Collapse

Mud weight: 10.60 ppg

Design is based on evacuated pipe.

**Minimum design factors:**

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

**Environment:**

H2S considered? No  
 Surface temperature: 75.00 °F  
 Bottom hole temperature: 281 °F  
 Temperature gradient: 1.40 °F/100ft  
 Minimum section length: 1,500 ft

Cement top: 11,765 ft

Burst

Max anticipated surface pressure: 4,865 psi  
 Internal gradient: 0.22 psi/ft  
 Calculated BHP 8,102 psi

No backup mud specified.

Tension:

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

**Directional Info - Build & Drop**

Kick-off point 3000 ft  
 Departure at shoe: 1062 ft  
 Maximum dogleg: 2 °/100ft  
 Inclination at shoe: 0 °

Tension is based on buoyed weight.  
 Neutral point: 12,394 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	14765	4.5	15.10	P-110	LT&C	14713	14765	3.701	451.9
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	8102	14350	1.771	8102	14420	1.78	186	406	2.18 J

Prepared Dominic Spencer  
 by: Bill Barrett

Phone: (303) 312-8164  
 FAX: (303) 312-8195

Date: November 5, 2007  
 Denver, Colorado

Remarks:

Collapse is based on a vertical depth of 14713 ft, a mud weight of 10.6 ppg. The casing is considered to be evacuated for collapse purposes.  
 Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a tensile load which is added to the axial load.

*Engineering responsibility for use of this design will be that of the purchaser.*

## Job Information

## Surface Casing

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Peter's Point 1-2D-13-16 Deep

Surface Hole 0 - 3000 ft (MD)  
Inner Diameter 12.250 in  
Job Excess 80 %

Surface Casing 0 - 3000 ft (MD)  
Outer Diameter 9.625 in  
Inner Diameter 8.835 in  
Linear Weight 40 lbm/ft  
Casing Grade HCP110

Mud Type Water Based Mud  
Mud Weight 8.80 lbm/gal  
BHST 117 degF

## Job Recommendation

## Surface Casing

### Fluid Instructions

#### Fluid 1: Water Based Spacer

##### Fresh Water with Gel

25 lbm/bbl Poly-E-Flake (Lost Circulation Additive)  
10 lbm/bbl Bentonite (Viscosifier)

Fluid Density: 8.50 lbm/gal  
Fluid Volume: 20 bbl

#### Fluid 2: Lead Cement – 2500 – 0'

##### Halliburton Light Premium

1 % Calcium Chloride (Accelerator)  
0.125 lbm/sk Poly-E-Flake (Lost Circulation Additive)

Fluid Weight 12.70 lbm/gal  
Slurry Yield: 1.85 ft<sup>3</sup>/sk  
Total Mixing Fluid: 9.90 Gal/sk  
Top of Fluid: 0 ft  
Calculated Fill: 2500 ft  
Volume: 251.01 bbl  
Calculated Sacks: 761.81 sks  
**Proposed Sacks: 770 sks**

#### Fluid 3: Tail Cement – 3000 – 2500'

##### Premium Cement

94 lbm/sk Premium Cement (Cement)  
2 % Calcium Chloride (Accelerator)  
0.125 lbm/sk Poly-E-Flake (Lost Circulation Additive)

Fluid Weight 15.80 lbm/gal  
Slurry Yield: 1.15 ft<sup>3</sup>/sk  
Total Mixing Fluid: 4.97 Gal/sk  
Top of Fluid: 2500 ft  
Calculated Fill: 500 ft  
Volume: 53.54 bbl  
Calculated Sacks: 261.39 sks  
**Proposed Sacks: 270 sks**

#### Fluid 4: Top Out Cement – If needed

##### Premium Plus Cement

94 lbm/sk Premium Plus Cement (Cement)  
2 % Calcium Chloride (Accelerator)

Fluid Weight 15.60 lbm/gal  
Slurry Yield: 1.18 ft<sup>3</sup>/sk  
Total Mixing Fluid: 5.20 Gal/sk  
**Proposed Sacks: 200 sks**

## Job Information

## Production Casing Cementing

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Peter's Point

1-2D-13-16 Deep

### Surface Casing

0 - 3000 ft (MD)

Outer Diameter

9.625 in

Inner Diameter

8.835 in

Linear Weight

40 lbm/ft

Casing Grade

HCP110

### 8 3/4" Hole

3000 - 13000 ft (MD)

Inner Diameter

8.750 in

Job Excess

10 %

### 7 7/8" Hole

13000 - 14765 ft (MD)

Inner Diameter

7.875 in

Job Excess

10 %

### Production Casing

0 - 14765 ft (MD)

0 - 14713 ft (TVD)

Outer Diameter

4.500 in

Inner Diameter

3.826 in

Linear Weight

15.10 lbm/ft

Casing Grade

P-110

Mud Type

Water Based Mud

Mud Weight

10.60 lbm/gal

BHST

250 degF

**Job Recommendation****Production Casing Cementing**

## Fluid Instructions

## Fluid 1: Water Spacer

Fresh Water

Fluid Density: 8.34 lbm/gal

Fluid Volume: 10 bbl

## Fluid 2: Reactive Spacer

Super Flush

Fluid Density: 9.20 lbm/gal

Fluid Volume: 20 bbl

## Fluid 3: Water Spacer

Fresh Water

Fluid Density: 8.34 lbm/gal

Fluid Volume: 10 bbl

## Fluid 4: Marker Cement

Premium Cement

94 lbm/sk Premium Cement (Cement)

0.3 % Halad(R)-344 (Low Fluid Loss Control)

0.4 % CFR-3 (Dispersant)

0.5 % HR-5 (Retarder)

Fluid Weight 15.80 lbm/gal

Slurry Yield: 1.15 ft<sup>3</sup>/sk

Total Mixing Fluid: 4.93 Gal/sk

Top of Fluid: 2650 ft

Calculated Fill: 350 ft

Volume: 19.65 bbl

Calculated Sacks: 95.96 sks

Proposed Sacks: 100 sks

## Fluid 5: Lead Cement – (11000-3000')

HighFill Cement

94 lbm/sk Premium Cement (Cement)

16 % Bentonite (Light Weight Additive)

0.6 % Econolite (Light Weight Additive)

10 lbm/sk Gilsonite (Lost Circulation Additive)

0.125 lbm/sk Poly-E-Flake (Lost Circulation Additive)

3 % Salt (Salt)

1.1 % HR-7 (Retarder)

Fluid Weight 11.50 lbm/gal

Slurry Yield: 3.23 ft<sup>3</sup>/sk

Total Mixing Fluid: 18.54 Gal/sk

Top of Fluid: 3000 ft

Calculated Fill: 8000 ft

Volume: 481.39 bbl

Calculated Sacks: 836.78 sks

Proposed Sacks: 840 sks

## Fluid 6: Primary Cement – (TD-11000')

50/50 Poz Premium

2 % Bentonite (Light Weight Additive)

20 % SSA-1 (Additive Material)

0.3 % Super CBL (Expander)

0.3 % Halad(R)-344 (Low Fluid Loss Control)

0.3 % Halad(R)-413 (Low Fluid Loss Control)

0.4 % HR-5 (Retarder)

0.125 lbm/sk Poly-E-Flake (Lost Circulation Additive)

3 lbm/sk Silicalite Compacted (Light Weight Additive)

Fluid Weight 14.30 lbm/gal

Slurry Yield: 1.47 ft<sup>3</sup>/sk

Total Mixing Fluid: 6.35 Gal/sk

Top of Fluid: 11000 ft

Calculated Fill: 3765 ft

Volume: 199.74 bbl

Calculated Sacks: 762.91 sks

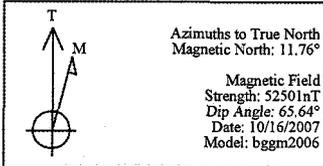
Proposed Sacks: 770 sks

PETER'S POINT STATE #1-2D-13-16 DEEP  
 911' FNL, 1429' FEL  
 SEC 2 T13S R16E  
 CARBON COUNTY, UTAH

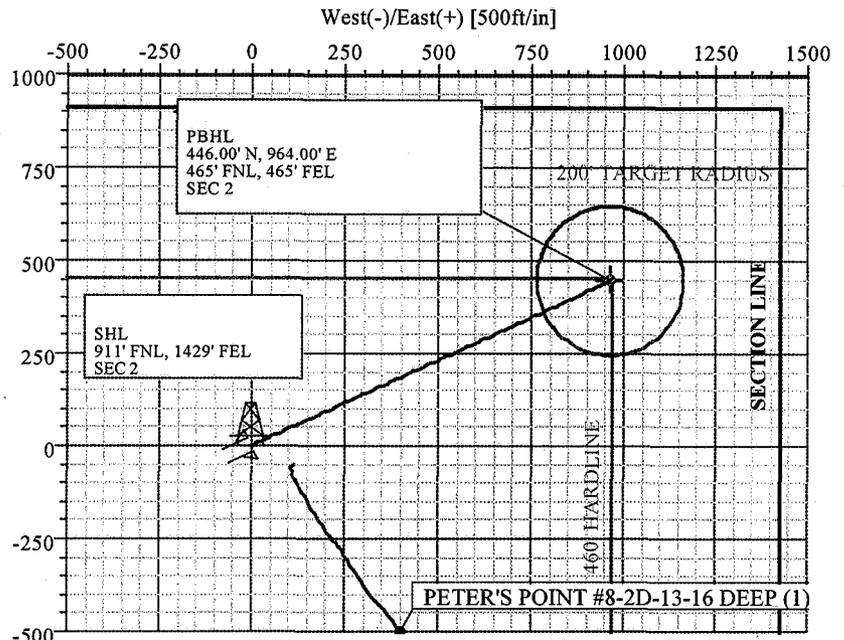
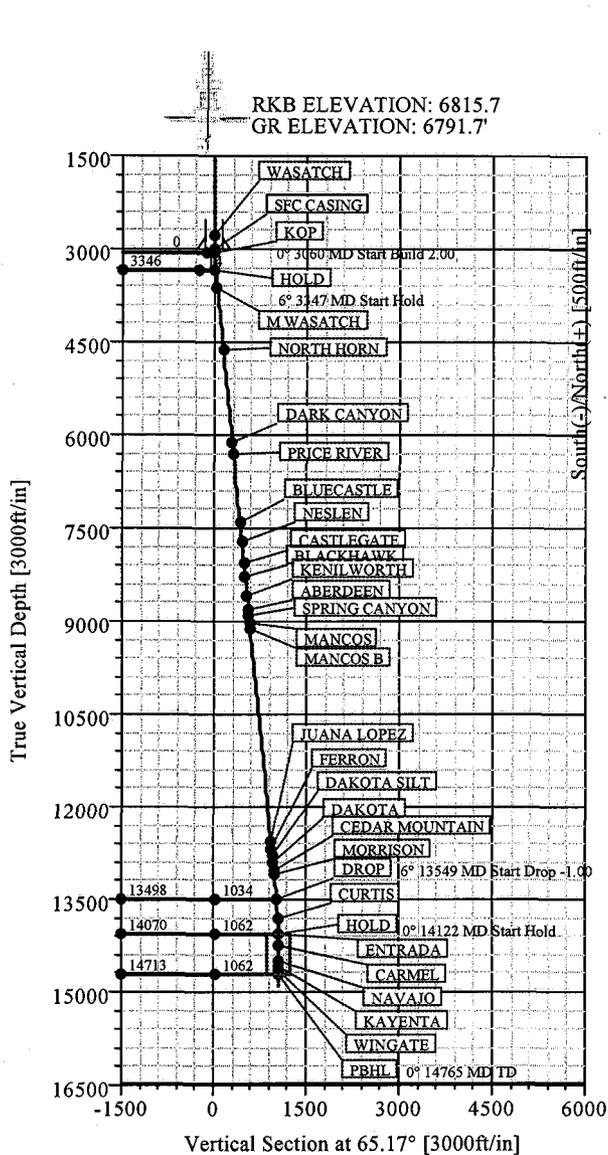
WELL DETAILS							
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
PT PT STATE #1-2D-13-16 DEEP	0.00	0.00	7070080.94	2037787.22	39°43'13.900N	110°05'13.930W	N/A

TARGET DETAILS								
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL_1-2D	14713.00	446.00	964.00	7070542.11	2038744.06	39°43'18.308N	110°05'01.592W	Circle (Radius: 200)

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	65.17	0.00	0.00	0.00	0.00	0.00	0.00	
2	3060.00	0.00	65.17	3060.00	0.00	0.00	0.00	0.00	0.00	
3	3346.66	5.73	65.17	3346.18	6.02	13.01	2.00	65.17	14.33	
4	13549.15	5.73	65.17	13497.64	433.97	937.99	0.00	0.00	1033.51	
5	14122.47	0.00	65.17	14070.00	446.00	964.00	1.00	180.00	1062.17	
6	14765.47	0.00	65.17	14713.00	446.00	964.00	0.00	65.17	1062.17	PBHL_1-2D



TOTAL CORRECTION TO TRUE NORTH: 11.76°



FORMATION TOP DETAILS			
No.	TVDPath	MDPath	Formation
1	2790.00	2790.00	WASATCH
2	3631.00	3632.91	M WASATCH
3	4623.00	4629.90	NORTH HORN
4	6124.00	6138.44	DARK CANYON
5	6315.00	6330.40	PRICE RIVER
6	7416.00	7436.94	BLUECASTLE
7	7717.00	7739.45	NESLEN
8	8074.00	8098.25	CASTLEGATE
9	8275.00	8300.26	BLACKHAWK
10	8594.00	8620.86	KENILWORTH
11	8814.00	8841.97	ABERDEEN
12	8915.00	8943.47	SPRING CANYON
13	9042.00	9071.11	MANCOS
14	9114.00	9143.47	MANCOS B
15	12569.00	12615.84	JUANA LOPEZ
16	12694.00	12741.47	FERRON
17	12772.00	12819.86	DAKOTA SILT
18	12905.00	12953.53	DAKOTA
19	13038.00	13087.20	CEDAR MOUNTAIN
20	13099.00	13148.51	MORRISON
21	13812.00	13864.38	CURTIS
22	14070.00	14122.47	ENTRADA
23	14243.00	14295.47	CARMEL
24	14514.00	14566.47	NAVAJO
25	14591.00	14643.47	KAYENTA
26	14641.00	14693.47	WINGATE



# Weatherford International, Ltd.

## PLAN REPORT

<b>Company:</b>	BILL BARRETT CORP	<b>Date:</b>	10/16/2007	<b>Time:</b>	16:32:16	<b>Page:</b>	2
<b>Field:</b>	CARBON COUNTY, UTAH	<b>Co-ordinate(NE) Reference:</b>	Well: PT PT STATE #1-2D-13-16 DEEP				
<b>Site:</b>	PETERS POINT STATE #1-2D-13-16 DEEP	<b>Vertical (TVD) Reference:</b>	SITE 6815.7				
<b>Well:</b>	PT PT STATE #1-2D-13-16 DEEP	<b>Section (VS) Reference:</b>	Well (0.00N,0.00E,65.35Azi)				
<b>Wellpath:</b>	1	<b>Survey Calculation Method:</b>	Minimum Curvature			<b>Db:</b>	Sybase

### Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Comment
4360.00	5.77	65.35	4354.38	48.50	105.67	116.27	0.00	0.00	0.00	
4460.00	5.77	65.35	4453.87	52.70	114.81	126.32	0.00	0.00	0.00	
4560.00	5.77	65.35	4553.37	56.89	123.95	136.38	0.00	0.00	0.00	
4629.99	5.77	65.35	4623.00	59.83	130.35	143.42	0.00	0.00	0.00	NORTH HORN
4660.00	5.77	65.35	4652.86	61.09	133.09	146.44	0.00	0.00	0.00	
4760.00	5.77	65.35	4752.35	65.29	142.24	156.50	0.00	0.00	0.00	
4860.00	5.77	65.35	4851.85	69.48	151.38	166.56	0.00	0.00	0.00	
4960.00	5.77	65.35	4951.34	73.68	160.52	176.62	0.00	0.00	0.00	
5060.00	5.77	65.35	5050.83	77.87	169.66	186.68	0.00	0.00	0.00	
5160.00	5.77	65.35	5150.32	82.07	178.81	196.74	0.00	0.00	0.00	
5260.00	5.77	65.35	5249.82	86.27	187.95	206.80	0.00	0.00	0.00	
5360.00	5.77	65.35	5349.31	90.46	197.09	216.86	0.00	0.00	0.00	
5460.00	5.77	65.35	5448.80	94.66	206.23	226.92	0.00	0.00	0.00	
5560.00	5.77	65.35	5548.29	98.86	215.37	236.98	0.00	0.00	0.00	
5660.00	5.77	65.35	5647.79	103.05	224.52	247.04	0.00	0.00	0.00	
5760.00	5.77	65.35	5747.28	107.25	233.66	257.10	0.00	0.00	0.00	
5860.00	5.77	65.35	5846.77	111.44	242.80	267.16	0.00	0.00	0.00	
5960.00	5.77	65.35	5946.27	115.64	251.94	277.22	0.00	0.00	0.00	
6060.00	5.77	65.35	6045.76	119.84	261.09	287.28	0.00	0.00	0.00	
6138.64	5.77	65.35	6124.00	123.14	268.28	295.19	0.00	0.00	0.00	DARK CANYON
6160.00	5.77	65.35	6145.25	124.03	270.23	297.33	0.00	0.00	0.00	
6260.00	5.77	65.35	6244.74	128.23	279.37	307.39	0.00	0.00	0.00	
6330.61	5.77	65.35	6315.00	131.19	285.83	314.50	0.00	0.00	0.00	PRICE RIVER
6360.00	5.77	65.35	6344.24	132.43	288.51	317.45	0.00	0.00	0.00	
6460.00	5.77	65.35	6443.73	136.62	297.66	327.51	0.00	0.00	0.00	
6560.00	5.77	65.35	6543.22	140.82	306.80	337.57	0.00	0.00	0.00	
6660.00	5.77	65.35	6642.72	145.01	315.94	347.63	0.00	0.00	0.00	
6760.00	5.77	65.35	6742.21	149.21	325.08	357.69	0.00	0.00	0.00	
6860.00	5.77	65.35	6841.70	153.41	334.23	367.75	0.00	0.00	0.00	
6960.00	5.77	65.35	6941.19	157.60	343.37	377.81	0.00	0.00	0.00	
7060.00	5.77	65.35	7040.69	161.80	352.51	387.87	0.00	0.00	0.00	
7160.00	5.77	65.35	7140.18	166.00	361.65	397.93	0.00	0.00	0.00	
7260.00	5.77	65.35	7239.67	170.19	370.79	407.99	0.00	0.00	0.00	
7360.00	5.77	65.35	7339.16	174.39	379.94	418.05	0.00	0.00	0.00	
7437.23	5.77	65.35	7416.00	177.63	387.00	425.82	0.00	0.00	0.00	BLUECASTLE
7460.00	5.77	65.35	7438.66	178.58	389.08	428.11	0.00	0.00	0.00	
7560.00	5.77	65.35	7538.15	182.78	398.22	438.17	0.00	0.00	0.00	
7660.00	5.77	65.35	7637.64	186.98	407.36	448.23	0.00	0.00	0.00	
7739.76	5.77	65.35	7717.00	190.32	414.66	456.25	0.00	0.00	0.00	NESLEN
7760.00	5.77	65.35	7737.14	191.17	416.51	458.28	0.00	0.00	0.00	
7860.00	5.77	65.35	7836.63	195.37	425.65	468.34	0.00	0.00	0.00	
7960.00	5.77	65.35	7936.12	199.57	434.79	478.40	0.00	0.00	0.00	
8060.00	5.77	65.35	8035.61	203.76	443.93	488.46	0.00	0.00	0.00	
8098.58	5.77	65.35	8074.00	205.38	447.46	492.34	0.00	0.00	0.00	CASTLEGATE
8160.00	5.77	65.35	8135.11	207.96	453.08	498.52	0.00	0.00	0.00	
8260.00	5.77	65.35	8234.60	212.15	462.22	508.58	0.00	0.00	0.00	
8300.61	5.77	65.35	8275.00	213.86	465.93	512.67	0.00	0.00	0.00	BLACKHAWK
8360.00	5.77	65.35	8334.09	216.35	471.36	518.64	0.00	0.00	0.00	
8460.00	5.77	65.35	8433.58	220.55	480.50	528.70	0.00	0.00	0.00	
8560.00	5.77	65.35	8533.08	224.74	489.65	538.76	0.00	0.00	0.00	
8621.23	5.77	65.35	8594.00	227.31	495.24	544.92	0.00	0.00	0.00	KENILWORTH
8660.00	5.77	65.35	8632.57	228.94	498.79	548.82	0.00	0.00	0.00	
8760.00	5.77	65.35	8732.06	233.14	507.93	558.88	0.00	0.00	0.00	

# Weatherford International, Ltd.

## PLAN REPORT

<b>Company:</b> BILL BARRETT CORP	<b>Date:</b> 10/16/2007	<b>Time:</b> 16:32:16	<b>Page:</b> 3
<b>Field:</b> CARBON COUNTY, UTAH	<b>Co-ordinate(NE) Reference:</b> Well: PT PT STATE #1-2D-13-16 DEEP		
<b>Site:</b> PETERS POINT STATE #1-2D-13-16 DEEP	<b>Vertical (TVD) Reference:</b> SITE 6815.7		
<b>Well:</b> PT PT STATE #1-2D-13-16 DEEP	<b>Section (VS) Reference:</b> Well (0.00N,0.00E,65.35Azi)		
<b>Wellpath:</b> 1	<b>Survey Calculation Method:</b> Minimum Curvature	<b>Db:</b> Sybase	

### Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Comment
8842.35	5.77	65.35	8814.00	236.59	515.46	567.16	0.00	0.00	0.00	ABERDEEN
8860.00	5.77	65.35	8831.56	237.33	517.07	568.94	0.00	0.00	0.00	
8943.87	5.77	65.35	8915.00	240.85	524.74	577.38	0.00	0.00	0.00	SPRING CANYON
8960.00	5.77	65.35	8931.05	241.53	526.22	579.00	0.00	0.00	0.00	
9060.00	5.77	65.35	9030.54	245.72	535.36	589.06	0.00	0.00	0.00	
9071.52	5.77	65.35	9042.00	246.21	536.41	590.22	0.00	0.00	0.00	MANCOS
9143.88	5.77	65.35	9114.00	249.24	543.03	597.50	0.00	0.00	0.00	MANCOS B
9160.00	5.77	65.35	9130.03	249.92	544.50	599.12	0.00	0.00	0.00	
9260.00	5.77	65.35	9229.53	254.12	553.64	609.18	0.00	0.00	0.00	
9360.00	5.77	65.35	9329.02	258.31	562.78	619.24	0.00	0.00	0.00	
9460.00	5.77	65.35	9428.51	262.51	571.93	629.29	0.00	0.00	0.00	
9560.00	5.77	65.35	9528.01	266.71	581.07	639.35	0.00	0.00	0.00	
9660.00	5.77	65.35	9627.50	270.90	590.21	649.41	0.00	0.00	0.00	
9760.00	5.77	65.35	9726.99	275.10	599.35	659.47	0.00	0.00	0.00	
9860.00	5.77	65.35	9826.48	279.30	608.50	669.53	0.00	0.00	0.00	
9960.00	5.77	65.35	9925.98	283.49	617.64	679.59	0.00	0.00	0.00	
10060.00	5.77	65.35	10025.47	287.69	626.78	689.65	0.00	0.00	0.00	
10160.00	5.77	65.35	10124.96	291.88	635.92	699.71	0.00	0.00	0.00	
10260.00	5.77	65.35	10224.45	296.08	645.07	709.77	0.00	0.00	0.00	
10360.00	5.77	65.35	10323.95	300.28	654.21	719.83	0.00	0.00	0.00	
10460.00	5.77	65.35	10423.44	304.47	663.35	729.89	0.00	0.00	0.00	
10560.00	5.77	65.35	10522.93	308.67	672.49	739.95	0.00	0.00	0.00	
10660.00	5.77	65.35	10622.43	312.87	681.64	750.01	0.00	0.00	0.00	
10760.00	5.77	65.35	10721.92	317.06	690.78	760.07	0.00	0.00	0.00	
10860.00	5.77	65.35	10821.41	321.26	699.92	770.13	0.00	0.00	0.00	
10960.00	5.77	65.35	10920.90	325.45	709.06	780.19	0.00	0.00	0.00	
11060.00	5.77	65.35	11020.40	329.65	718.20	790.25	0.00	0.00	0.00	
11160.00	5.77	65.35	11119.89	333.85	727.35	800.30	0.00	0.00	0.00	
11260.00	5.77	65.35	11219.38	338.04	736.49	810.36	0.00	0.00	0.00	
11360.00	5.77	65.35	11318.87	342.24	745.63	820.42	0.00	0.00	0.00	
11460.00	5.77	65.35	11418.37	346.44	754.77	830.48	0.00	0.00	0.00	
11560.00	5.77	65.35	11517.86	350.63	763.92	840.54	0.00	0.00	0.00	
11660.00	5.77	65.35	11617.35	354.83	773.06	850.60	0.00	0.00	0.00	
11760.00	5.77	65.35	11716.85	359.02	782.20	860.66	0.00	0.00	0.00	
11860.00	5.77	65.35	11816.34	363.22	791.34	870.72	0.00	0.00	0.00	
11960.00	5.77	65.35	11915.83	367.42	800.49	880.78	0.00	0.00	0.00	
12060.00	5.77	65.35	12015.32	371.61	809.63	890.84	0.00	0.00	0.00	
12160.00	5.77	65.35	12114.82	375.81	818.77	900.90	0.00	0.00	0.00	
12260.00	5.77	65.35	12214.31	380.01	827.91	910.96	0.00	0.00	0.00	
12360.00	5.77	65.35	12313.80	384.20	837.06	921.02	0.00	0.00	0.00	
12460.00	5.77	65.35	12413.30	388.40	846.20	931.08	0.00	0.00	0.00	
12560.00	5.77	65.35	12512.79	392.59	855.34	941.14	0.00	0.00	0.00	
12616.50	5.77	65.35	12569.00	394.97	860.51	946.82	0.00	0.00	0.00	JUANA LOPEZ
12660.00	5.77	65.35	12612.28	396.79	864.48	951.20	0.00	0.00	0.00	
12742.14	5.77	65.35	12694.00	400.24	871.99	959.46	0.00	0.00	0.00	FERRON
12760.00	5.77	65.35	12711.77	400.99	873.63	961.26	0.00	0.00	0.00	
12820.53	5.77	65.35	12772.00	403.53	879.16	967.34	0.00	0.00	0.00	DAKOTA SILT
12860.00	5.77	65.35	12811.27	405.18	882.77	971.31	0.00	0.00	0.00	
12954.21	5.77	65.35	12905.00	409.14	891.38	980.79	0.00	0.00	0.00	DAKOTA
12960.00	5.77	65.35	12910.76	409.38	891.91	981.37	0.00	0.00	0.00	
13060.00	5.77	65.35	13010.25	413.58	901.05	991.43	0.00	0.00	0.00	
13087.89	5.77	65.35	13038.00	414.75	903.60	994.24	0.00	0.00	0.00	CEDAR MOUNTAIN

# Weatherford International, Ltd.

## PLAN REPORT

<b>Company:</b> BILL BARRETT CORP	<b>Date:</b> 10/16/2007	<b>Time:</b> 16:32:16	<b>Page:</b> 4
<b>Field:</b> CARBON COUNTY, UTAH	<b>Co-ordinate(NE) Reference:</b> Well: PT PT STATE #1-2D-13-16 DEEP		
<b>Site:</b> PETERS POINT STATE #1-2D-13-16 DEEP	<b>Vertical (TVD) Reference:</b> SITE 6815.7		
<b>Well:</b> PT PT STATE #1-2D-13-16 DEEP	<b>Section (VS) Reference:</b> Well (0.00N,0.00E,65.35Azi)		
<b>Wellpath:</b> 1	<b>Survey Calculation Method:</b> Minimum Curvature	<b>Db:</b> Sybase	

### Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Comment
13149.20	5.77	65.35	13099.00	417.32	909.21	1000.41	0.00	0.00	0.00	MORRISON
13160.00	5.77	65.35	13109.74	417.77	910.19	1001.49	0.00	0.00	0.00	
13260.00	5.77	65.35	13209.24	421.97	919.34	1011.55	0.00	0.00	0.00	
13360.00	5.77	65.35	13308.73	426.16	928.48	1021.61	0.00	0.00	0.00	
13460.00	5.77	65.35	13408.22	430.36	937.62	1031.67	0.00	0.00	0.00	
13545.85	5.77	65.35	13493.64	433.96	945.47	1040.31	0.00	0.00	0.00	DROP
13560.00	5.63	65.35	13507.72	434.55	946.75	1041.71	1.00	-1.00	0.00	
13660.00	4.63	65.35	13607.31	438.28	954.88	1050.66	1.00	-1.00	0.00	
13760.00	3.63	65.35	13707.05	441.29	961.43	1057.86	1.00	-1.00	0.00	
13860.00	2.63	65.35	13806.90	443.57	966.39	1063.33	1.00	-1.00	0.00	
13865.10	2.58	65.35	13812.00	443.66	966.60	1063.56	1.00	-1.00	0.00	CURTIS
13960.00	1.63	65.35	13906.83	445.12	969.77	1067.05	1.00	-1.00	0.00	
14060.00	0.63	65.35	14006.81	445.94	971.57	1069.02	1.00	-1.00	0.00	
14123.19	0.00	65.35	14070.00	446.09	971.88	1069.37	1.00	-1.00	0.00	ENTRADA
14160.00	0.00	65.35	14106.81	446.09	971.88	1069.37	0.00	0.00	0.00	
14260.00	0.00	65.35	14206.81	446.09	971.88	1069.37	0.00	0.00	0.00	
14296.19	0.00	65.35	14243.00	446.09	971.88	1069.37	0.00	0.00	0.00	CARMEL
14360.00	0.00	65.35	14306.81	446.09	971.88	1069.37	0.00	0.00	0.00	
14460.00	0.00	65.35	14406.81	446.09	971.88	1069.37	0.00	0.00	0.00	
14560.00	0.00	65.35	14506.81	446.09	971.88	1069.37	0.00	0.00	0.00	
14567.19	0.00	65.35	14514.00	446.09	971.88	1069.37	0.00	0.00	0.00	NAVAJO
14644.19	0.00	65.35	14591.00	446.09	971.88	1069.37	0.00	0.00	0.00	KAYENTA
14660.00	0.00	65.35	14606.81	446.09	971.88	1069.37	0.00	0.00	0.00	
14694.19	0.00	65.35	14641.00	446.09	971.88	1069.37	0.00	0.00	0.00	WINGATE
14760.00	0.00	65.35	14706.81	446.09	971.88	1069.37	0.00	0.00	0.00	
14766.19	0.00	65.35	14713.00	446.09	971.88	1069.37	0.00	0.00	0.00	PBHL_1-2D

### Annotation

MD ft	TVD ft	
3060.00	3060.00	KOP
3348.67	3348.18	HOLD
13545.85	13493.64	DROP
14123.19	14070.00	HOLD
14766.19	14713.00	PBHL

### Targets

Name	Description		TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	Latitude			Longitude				
	Dip.	Dir.						Deg	Min	Sec	Deg	Min	Sec		
PBHL_1-2D -Circle (Radius: 200) -Plan hit target			14713.00	446.09	971.88	7070542.322038751.94		39	43	18.309	N	110	5	1.491	W



# Weatherford International, Ltd.

## Anticollision Report

**Company:** BILL BARRETT CORP      **Date:** 10/16/2007      **Time:** 16:59:19      **Page:** 2  
**Field:** CARBON COUNTY, UTAH  
**Reference Site:** PETERS POINT STATE #1-2D-13-16 DEEP      **Co-ordinate(NE) Reference:** Well: PT PT STATE #1-2D-13-16 DEEP  
**Reference Well:** PT PT STATE #1-2D-13-16 DEEP      **Vertical (TVD) Reference:** SITE 6815.7  
**Reference Wellpath:** 1      **Db:** Sybase

**Site:** PETER'S POINT 8-2D-13-16 DEEP  
**Well:** PETER'S POINT #8-2D-13-16 DEEP  
**Wellpath:** 1 V3

**Inter-Site Error:** 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr Distance	Edge Distance	Separation Factor	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East				
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
3700.00	3697.75	3683.55	3682.30	8.21	4.66	81.32	-86.26	114.31	128.40	115.57	10.00	
3800.00	3797.25	3781.43	3779.48	8.45	4.87	85.77	-96.59	119.78	139.27	126.01	10.50	
3900.00	3896.75	3881.10	3878.44	8.69	5.09	89.35	-106.72	126.00	150.80	137.09	11.00	
4000.00	3996.25	3977.07	3973.62	8.94	5.32	92.30	-117.24	132.31	163.67	149.53	11.57	
4100.00	4095.75	4077.02	4072.69	9.19	5.56	94.92	-128.58	139.03	177.35	162.74	12.15	
4200.00	4195.25	4175.95	4170.81	9.44	5.80	97.08	-139.32	145.75	190.89	175.83	12.68	
4300.00	4294.75	4273.38	4267.39	9.70	6.06	98.98	-150.37	152.29	205.11	189.58	13.21	
4400.00	4394.25	4371.25	4364.35	9.95	6.34	100.70	-161.96	158.74	219.97	203.97	13.75	
4500.00	4493.75	4468.77	4460.91	10.21	6.61	102.21	-174.04	165.22	235.56	219.08	14.30	
4600.00	4593.25	4568.18	4559.31	10.47	6.88	103.46	-186.28	172.29	251.30	234.35	14.82	
4700.00	4692.75	4668.30	4658.46	10.73	7.15	104.50	-198.09	179.62	266.67	249.24	15.30	
4800.00	4792.25	4769.09	4758.35	10.99	7.42	105.42	-209.41	186.92	281.55	263.63	15.71	
4900.00	4891.75	4869.77	4858.23	11.26	7.70	106.30	-219.93	193.90	295.67	277.25	16.05	
5000.00	4991.25	4969.03	4956.74	11.52	7.97	107.06	-230.00	200.84	309.57	290.66	16.37	
5100.00	5090.75	5068.01	5054.95	11.79	8.24	107.70	-239.98	208.05	323.48	304.08	16.68	
5200.00	5190.25	5166.93	5153.06	12.05	8.51	108.22	-249.90	215.69	337.43	317.54	16.97	
5300.00	5289.75	5267.41	5252.72	12.32	8.79	108.61	-259.80	223.98	351.28	330.89	17.23	
5400.00	5389.25	5362.65	5347.15	12.59	9.07	108.92	-269.13	232.06	365.12	344.24	17.49	
5500.00	5488.75	5456.88	5440.45	12.86	9.35	109.23	-279.77	239.95	380.44	359.06	17.80	
5600.00	5588.25	5551.46	5533.97	13.13	9.64	109.56	-291.44	247.75	396.79	374.91	18.14	
5700.00	5687.75	5649.33	5630.64	13.40	9.95	109.83	-304.23	256.16	413.90	391.51	18.48	
5800.00	5787.25	5745.66	5725.81	13.68	10.26	110.12	-316.92	264.07	431.10	408.20	18.82	
5900.00	5886.75	5840.22	5819.06	13.95	10.57	110.29	-330.05	272.61	449.08	425.68	19.19	
6000.00	5986.25	5935.92	5913.27	14.22	10.90	110.36	-344.01	281.99	467.81	443.89	19.56	
6100.00	6085.75	6031.98	6007.74	14.50	11.24	110.40	-358.42	291.74	486.99	462.54	19.92	
6200.00	6185.25	6130.89	6104.96	14.77	11.59	110.40	-373.46	301.99	506.37	481.40	20.27	
6300.00	6284.75	6228.67	6201.06	15.05	11.94	110.36	-388.13	312.51	525.59	500.09	20.61	
6400.00	6384.25	6328.70	6299.33	15.32	12.29	110.29	-403.06	323.68	544.77	518.72	20.91	
6500.00	6483.75	6432.51	6401.41	15.60	12.65	110.18	-417.83	335.48	563.26	536.66	21.17	
6600.00	6583.25	6532.16	6499.48	15.88	13.00	110.08	-431.35	346.88	581.11	553.97	21.41	
6700.00	6682.75	6630.06	6595.84	16.15	13.34	109.98	-444.59	358.05	598.92	571.24	21.64	
6800.00	6782.25	6731.37	6695.61	16.43	13.69	109.92	-458.13	369.25	616.55	588.32	21.84	
6900.00	6881.75	6833.61	6796.48	16.71	14.04	109.96	-471.27	379.46	633.57	604.79	22.01	
7000.00	6981.25	6930.70	6892.41	16.99	14.36	110.11	-483.68	387.86	650.42	621.11	22.19	
7100.00	7080.75	7024.62	6985.12	17.27	14.67	110.24	-496.17	396.21	667.80	637.97	22.38	
7200.00	7180.25	7122.30	7081.41	17.55	15.01	110.30	-509.64	405.57	685.72	655.35	22.58	
7300.00	7279.75	7225.84	7183.56	17.82	15.37	110.36	-523.22	415.62	702.98	672.05	22.73	
7400.00	7379.25	7323.48	7279.93	18.10	15.70	110.43	-536.01	424.75	720.21	688.74	22.89	
7500.00	7478.75	7419.11	7374.38	18.38	16.02	110.56	-548.58	432.92	737.42	705.43	23.05	
7600.00	7578.25	7511.59	7465.60	18.66	16.34	110.69	-561.61	440.81	755.57	723.05	23.24	
7700.00	7677.75	7609.62	7562.29	18.95	16.68	110.85	-575.66	448.76	773.94	740.88	23.41	
7800.00	7777.25	7705.31	7656.65	19.23	17.01	111.01	-589.53	456.42	792.47	758.88	23.59	
7900.00	7876.75	7803.42	7753.34	19.51	17.36	111.15	-604.09	464.42	811.36	777.23	23.77	
8000.00	7976.25	7904.07	7852.65	19.79	17.71	111.34	-618.70	471.93	829.89	795.21	23.93	
8100.00	8075.75	8010.01	7957.13	20.07	18.07	111.45	-633.68	481.05	848.14	812.90	24.07	
8200.00	8175.25	8120.38	8066.23	20.35	18.43	111.59	-647.80	489.86	864.99	829.18	24.15	
8300.00	8274.74	8228.27	8173.13	20.63	18.77	111.81	-660.40	497.22	880.69	844.32	24.22	
8400.00	8374.24	8327.94	8271.99	20.92	19.07	112.05	-671.53	503.30	895.87	858.97	24.28	
8500.00	8473.74	8434.88	8378.12	21.20	19.39	112.30	-682.94	509.73	910.56	873.12	24.32	
8600.00	8573.24	8539.64	8482.21	21.48	19.69	112.56	-693.17	515.71	924.35	886.36	24.33	
8700.00	8672.74	8635.78	8577.72	21.76	19.97	112.77	-702.62	521.40	938.22	899.72	24.37	

# Weatherford International, Ltd.

## Anticollision Report

<b>Company:</b>	BILL BARRETT CORP	<b>Date:</b>	10/16/2007	<b>Time:</b>	16:59:19	<b>Page:</b>	3
<b>Field:</b>	CARBON COUNTY, UTAH	<b>Reference Site:</b>	PETERS POINT STATE #1-2D-13-16 DEEP	<b>Co-ordinate(NE) Reference:</b>	Well: PT PT STATE #1-2D-13-16 DEEP	<b>Reference Well:</b>	PT PT STATE #1-2D-13-16 DEEP
<b>Reference Well:</b>	PT PT STATE #1-2D-13-16 DEEP	<b>Vertical (TVD) Reference:</b>	SITE 6815.7		<b>Reference Wellpath:</b>	1	<b>Db:</b> Sybase

**Site:** PETER'S POINT 8-2D-13-16 DEEP  
**Well:** PETER'S POINT #8-2D-13-16 DEEP  
**Wellpath:** 1 V3

**Inter-Site Error:** 0.00 ft

Reference MD ft	TVD ft	Offset		Semi-Major Axis			Offset Location		Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
		MD ft	TVD ft	Ref ft	Offset ft	TFO-HS deg	North ft	East ft				
8800.00	8772.24	8736.00	8677.27	22.05	20.25	112.99	-712.42	527.42	952.07	913.03	24.39	
8900.00	8871.74	8837.96	8778.58	22.33	20.55	113.21	-722.36	533.30	965.90	926.33	24.41	
9000.00	8971.24	8938.67	8878.72	22.61	20.83	113.45	-731.59	538.71	979.15	939.05	24.42	
9100.00	9070.74	9037.19	8976.64	22.90	21.11	113.66	-740.92	544.28	992.71	952.09	24.44	
9200.00	9170.24	9140.01	9078.88	23.18	21.40	113.89	-750.30	549.86	1005.95	964.79	24.44	
9300.00	9269.74	9249.06	9187.36	23.46	21.69	114.12	-759.66	555.88	1018.68	976.98	24.43	
9400.00	9369.24	9354.37	9292.24	23.75	21.97	114.38	-767.70	560.91	1030.46	988.23	24.40	
9500.00	9468.74	9462.77	9400.26	24.03	22.24	114.66	-775.25	565.79	1041.59	998.82	24.35	
9600.00	9568.24	9559.66	9496.83	24.32	22.48	114.90	-781.69	570.23	1052.43	1009.15	24.32	
9700.00	9667.74	9658.07	9594.95	24.60	22.73	115.17	-788.32	574.14	1063.38	1019.59	24.28	
9800.00	9767.24	9743.82	9680.40	24.88	22.94	115.40	-794.71	577.42	1075.08	1030.80	24.28	
9900.00	9866.74	9840.88	9777.06	25.17	23.19	115.67	-802.66	581.14	1087.52	1042.73	24.28	
10000.00	9966.24	9935.27	9871.01	25.45	23.45	115.89	-810.68	585.29	1100.28	1054.99	24.29	
10100.00	10065.74	10032.61	9967.83	25.74	23.71	116.06	-819.28	590.55	1113.36	1067.55	24.30	
10200.00	10165.24	10140.76	10075.44	26.02	24.01	116.24	-828.37	596.38	1126.02	1079.67	24.29	
10300.00	10264.74	10236.40	10170.64	26.31	24.26	116.43	-836.23	601.08	1138.54	1091.67	24.29	
10400.00	10364.24	10333.33	10267.11	26.59	24.52	116.63	-844.49	605.49	1151.37	1103.99	24.30	
10500.00	10463.74	10435.89	10369.20	26.88	24.79	116.83	-853.10	610.28	1164.09	1116.18	24.30	
10600.00	10563.24	10539.45	10472.29	27.16	25.07	117.02	-861.54	615.35	1176.57	1128.13	24.29	
10700.00	10662.74	10653.99	10586.44	27.45	25.36	117.28	-869.93	619.81	1188.31	1139.35	24.27	
10800.00	10762.24	10759.70	10691.89	27.73	25.61	117.55	-876.33	623.34	1198.79	1149.30	24.22	
10900.00	10861.74	10854.89	10786.86	28.02	25.83	117.79	-882.15	626.28	1209.40	1159.40	24.19	
11000.00	10961.24	10947.85	10879.59	28.30	26.05	118.06	-888.23	628.60	1220.47	1169.98	24.17	
11100.00	11060.74	11040.90	10972.37	28.59	26.28	118.31	-894.80	630.99	1232.10	1181.13	24.17	
11200.00	11160.24	11132.83	11064.02	28.88	26.50	118.57	-901.75	633.12	1244.26	1192.79	24.18	
11300.00	11259.74	11221.63	11152.50	29.16	26.72	118.82	-909.03	634.83	1257.12	1205.18	24.20	
11400.00	11359.24	11337.03	11267.47	29.45	27.01	119.17	-918.84	636.50	1270.42	1217.95	24.21	
11500.00	11458.74	11467.80	11397.99	29.73	27.30	119.59	-926.59	638.05	1281.12	1228.07	24.15	
11600.00	11558.24	11583.69	11513.79	30.02	27.54	119.98	-931.25	638.84	1290.03	1236.47	24.09	
11700.00	11657.74	11687.48	11617.53	30.31	27.74	120.35	-934.61	639.13	1298.26	1244.20	24.02	
11800.00	11757.24	11787.12	11717.12	30.59	27.92	120.73	-937.58	638.96	1306.35	1251.81	23.95	
11900.00	11856.74	11882.14	11812.09	30.88	28.11	121.06	-940.60	639.16	1314.64	1259.62	23.90	
12000.00	11956.24	11971.37	11901.26	31.16	28.29	121.35	-943.98	639.87	1323.52	1267.99	23.84	
12100.00	12055.74	12057.37	11987.15	31.45	28.47	121.59	-948.09	641.16	1333.32	1277.43	23.85	
12200.00	12155.24	12144.91	12074.53	31.74	28.66	121.83	-953.22	642.37	1344.22	1287.83	23.84	
12300.00	12254.74	12242.21	12171.62	32.02	28.88	122.09	-959.34	643.63	1355.59	1298.71	23.83	
12400.00	12354.24	12338.77	12267.99	32.31	29.11	122.35	-965.43	644.89	1367.02	1309.66	23.83	
12500.00	12453.74	12428.00	12357.00	32.60	29.31	122.58	-971.53	646.09	1378.98	1321.15	23.84	
12600.00	12553.24	12517.63	12446.36	32.88	29.53	122.81	-978.38	647.34	1391.76	1333.45	23.87	
12700.00	12652.74	12615.51	12543.91	33.17	29.77	123.04	-986.22	648.68	1404.92	1346.12	23.89	
12800.00	12752.24	12713.74	12641.83	33.46	30.01	123.28	-994.01	649.85	1418.06	1358.76	23.92	
12900.00	12851.74	12805.02	12732.79	33.74	30.24	123.50	-1001.52	650.97	1431.51	1371.74	23.95	
13000.00	12951.24	12892.73	12820.14	34.03	30.46	123.70	-1009.41	652.20	1445.70	1385.46	24.00	
13100.00	13050.73	12982.60	12909.56	34.32	30.70	123.87	-1018.21	653.83	1460.63	1399.91	24.05	
13200.00	13150.23	13078.16	13004.60	34.60	30.96	124.04	-1028.00	655.85	1475.97	1414.76	24.11	
13300.00	13249.73	13181.34	13107.19	34.89	31.24	124.21	-1038.65	658.33	1491.35	1429.62	24.16	
13400.00	13349.23	13286.45	13211.78	35.18	31.52	124.39	-1048.89	660.81	1506.18	1443.93	24.20	
13500.00	13448.73	13283.00	13208.34	35.46	31.51	124.38	-1048.56	660.73	1524.35	1461.82	24.38	
13600.00	13548.26	13283.00	13208.34	35.73	31.51	124.49	-1048.56	660.73	1548.65	1485.86	24.66	
13700.00	13647.91	13283.00	13208.34	35.94	31.51	124.75	-1048.56	660.73	1578.11	1515.13	25.06	
13800.00	13747.70	13283.00	13208.34	36.14	31.51	125.04	-1048.56	660.73	1612.31	1549.16	25.53	

# Weatherford International, Ltd.

## Anticollision Report

<b>Company:</b>	BILL BARRETT CORP	<b>Date:</b>	10/16/2007	<b>Time:</b>	16:59:19	<b>Page:</b>	4
<b>Field:</b>	CARBON COUNTY, UTAH						
<b>Reference Site:</b>	PETERS POINT STATE #1-2D-13-16 DEEP	<b>Co-ordinate(NE) Reference:</b>	Well: PT PT STATE #1-2D-13-16 DEEP				
<b>Reference Well:</b>	PT PT STATE #1-2D-13-16 DEEP	<b>Vertical (TVD) Reference:</b>	SITE 6815.7				
<b>Reference Wellpath:</b>	1					<b>Db:</b>	Sybase

**Site:** PETER'S POINT 8-2D-13-16 DEEP  
**Well:** PETER'S POINT #8-2D-13-16 DEEP  
**Wellpath:** 1 V3

**Inter-Site Error:** 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
MD ft	TVD ft	MD ft	TVD ft	Ref ft	Offset ft	TFO-HS deg	North ft	East ft				
13900.00	13847.59	13283.00	13208.34	36.32	31.51	125.39	-1048.56	660.73	1650.95	1587.65	26.08	
14000.00	13947.54	13283.00	13208.34	36.49	31.51	125.77	-1048.56	660.73	1693.72	1630.29	26.70	
14100.00	14047.53	13283.00	13208.34	36.64	31.51	126.20	-1048.56	660.73	1740.31	1676.76	27.39	
14200.00	14147.53	13283.00	13208.34	36.81	31.51	191.47	-1048.56	660.73	1790.65	1730.07	29.56	
14300.00	14247.53	13283.00	13208.34	37.00	31.51	191.47	-1048.56	660.73	1845.03	1784.25	30.35	
14400.00	14347.53	13283.00	13208.34	37.18	31.51	191.47	-1048.56	660.73	1903.11	1842.13	31.21	
14500.00	14447.53	13283.00	13208.34	37.37	31.51	191.47	-1048.56	660.73	1964.57	1903.38	32.11	
14600.00	14547.53	13283.00	13208.34	37.57	31.51	191.47	-1048.56	660.73	2029.10	1967.71	33.05	
14700.00	14647.53	13283.00	13208.34	37.76	31.51	191.47	-1048.56	660.73	2096.41	2034.82	34.04	

## PRESSURE CONTROL EQUIPMENT – Schematic Attached

A. **Type:** Thirteen & Three-eighths Inch (13 3/8") or Eleven Inch (11") Double Gate Hydraulic BOP with Thirteen & Three-eighths Inch (13 3/8") or Eleven Inch (11") Annular Preventer. The blow out preventer will be equipped as follows:

1. One (1) blind ram (above).
2. Two (2) pipe rams (below).
3. Drilling spool with two (2) side outlets (choke side 3-inch minimum, kill side 2-inch minimum).
4. 3-inch diameter choke line.
5. Two (2) manual and hydraulic choke line valves (3-inch minimum).
6. Remote kill line (2-inch minimum).
7. Three (3) chokes with one remotely controlled from the rig floor.
8. Two (2) kill line valves, and a check valve (2-inch minimum).
9. Upper and lower kelly cock valves with handles available.
10. Safety valve(s) & subs to fit all drill string connections in use.
11. Inside BOP or float sub available.
12. Wear ring in casing head.
13. Pressure gauge on choke manifold.
14. Fill-up line above the uppermost preventer.

B. **Pressure Rating:** 10,000 psi

C. **Testing Procedure:**

### Annular Preventer (5000 psi)

At a minimum, the Annular Preventer will be pressure tested to 50% of the rated working pressure for a period of ten (10) minutes or until provisions of the test are met, whichever is longer.

At a minimum the above pressure test will be performed:

1. When the annular preventer is initially installed;
2. Whenever any seal subject to test pressure is broken;
3. Following related repairs; and
4. At thirty (30) day intervals.

In addition, the Annular Preventer will be functionally operated at least weekly.

### Blow-Out Preventer

At a minimum, the BOP, choke manifold, and related equipment will be pressure tested to the approved working pressure of the BOP stack (if isolated from the

surface casing by a test plug) or to 70% of the internal yield strength of the surface casing (if the BOP is not isolated from the casing by a test plug). Pressure will be maintained for a period of at least ten (10) minutes or until the requirements of the test are met, whichever is longer.

At a minimum, the above pressure test will be performed:

1. When the BOP is initially installed;
2. Whenever any seal subject to test pressure is broken;
3. Following related repairs; and
4. At thirty (30) day intervals.

In addition the pipe and blind rams will be activated each trip, but not more than once each day. All BOP drills and tests will be recorded in the IADC driller's log.

#### D. Choke Manifold Equipment:

All choke lines will be straight lines unless turns use tee blocks or are targeted with running tees, and will be anchored to prevent whip and vibration.

#### E. Accumulator:

The accumulator will have sufficient capacity to open the hydraulically-controlled choke line valve (if so equipped), close all rams plus the annular preventer, and retain a minimum of 200 psi above precharge on the closing manifold without the use of closing unit pumps. The fluid reservoir capacity will be double the usable fluid volume of the accumulator system capacity and the fluid level of the reservoir will be maintained at the manufacturer's recommendations.

The BOP system will have two (2) independent power sources to close the preventers. Nitrogen bottles (3 minimum) will be one (1) of these independent power sources and will maintain a charge equal to the manufacturer's specifications.

The accumulator precharge pressure test will be conducted prior to connecting the closing unit to the BOP stack and at least once every six (6) months thereafter. The accumulator pressure will be corrected if the measured precharge pressure is found to be above or below the maximum or minimum limits specified in the *Onshore Oil & Gas Order Number 2*.

A manual locking device (i.e. hand wheels) or automatic locking device will be installed on all systems of 2M or greater. A valve will be installed in the closing line as close as possible to the annular preventer to act as a locking device. This valve will be maintained in the open position and will be closed only when the power source for the accumulator is inoperative.

Remote controls shall be readily accessible to the driller. Remote controls for all 3M or greater systems will be capable of closing all preventers. Remote controls for 5M or greater systems will be capable of both opening and closing all preventers. Master controls will be at the accumulator and will be capable of opening and closing all preventers and the choke line valve (if so equipped).

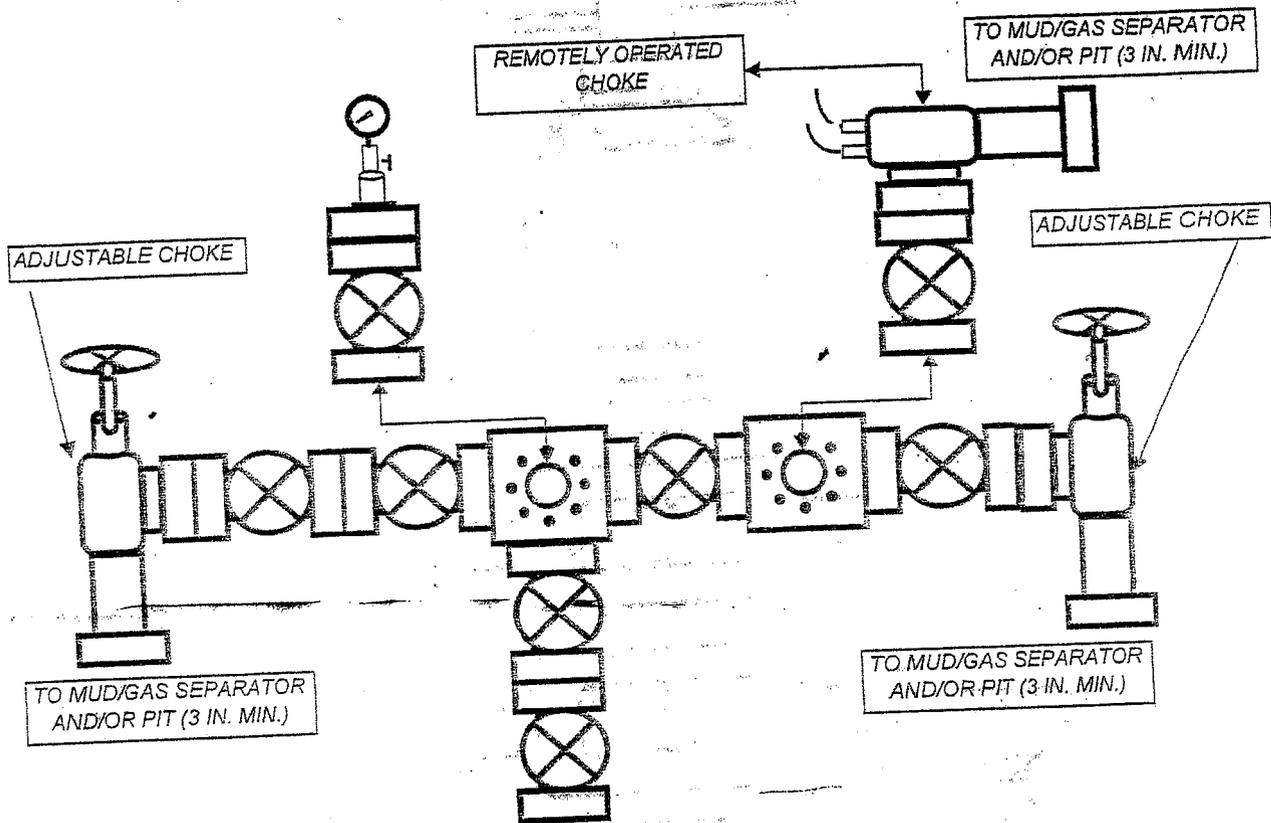
**F. Miscellaneous Information:**

The Blow-Out Preventer and related pressure control equipment will be installed, tested and maintained in compliance with the specifications in and requirements of *Onshore Oil & Gas Order Number 2*. The choke manifold will be located outside the rig sub-structure. The hydraulic BOP closing unit will be located at least twenty-five (25) feet from the well head but readily accessible to the driller. Exact locations and configurations of the hydraulic BOP closing unit will depend upon the particular rig contracted to drill this hole.

A flare line will be installed after the choke manifold, extending 125 feet (minimum) from the center of the drill hole to a separate flare pit.

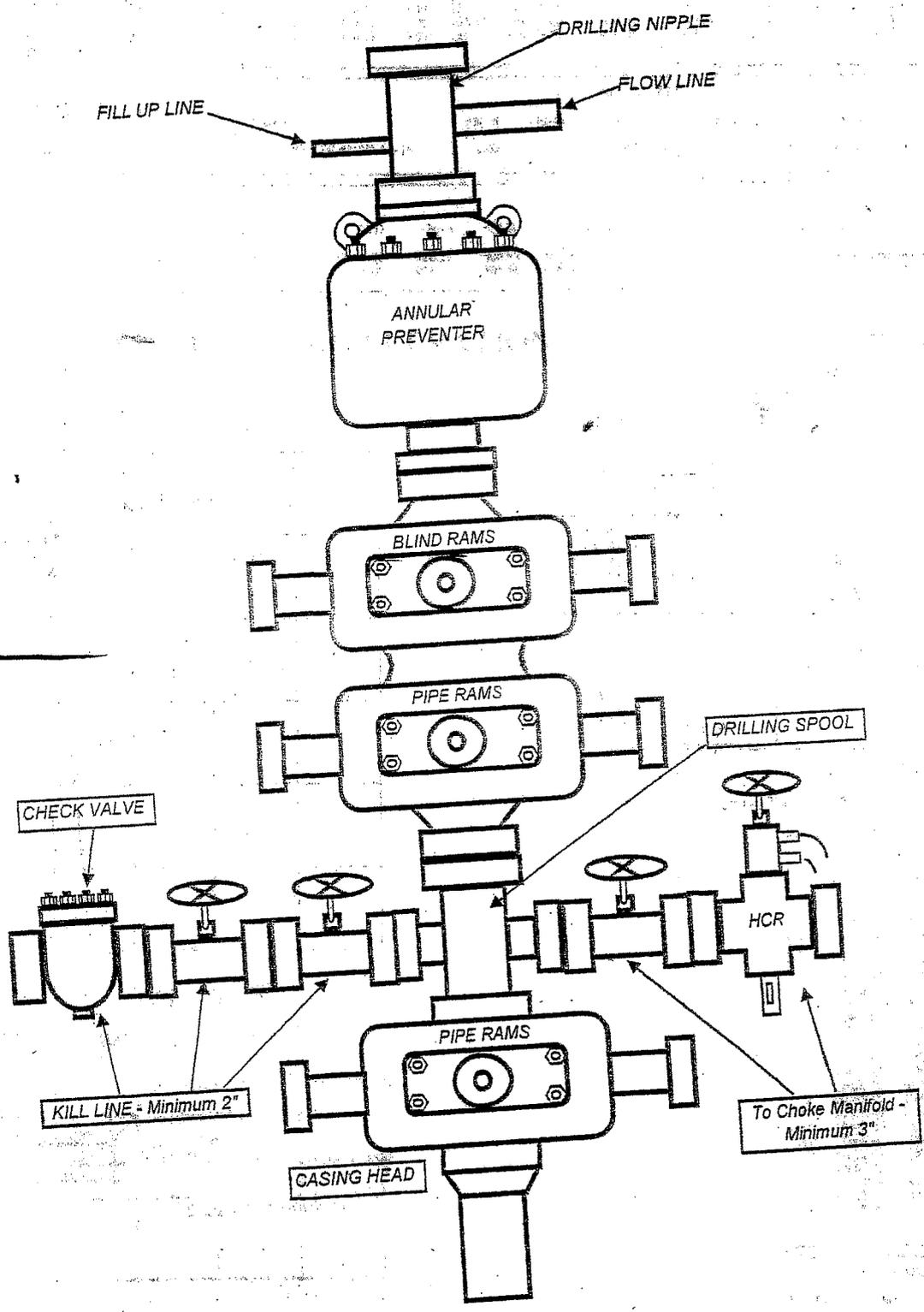
# BILL BARRETT CORPORATION

## TYPICAL 10,000 p.s.i. CHOKE MANIFOLD



ALL EQUIPMENT IS 3" (MINIMUM).

**BILL BARRETT CORPORATION**  
**TYPICAL 10,000 p.s.i. BLOWOUT PREVENTER**



CULTURAL RESOURCE INVENTORY  
OF BILL BARRETT CORPORATION'S  
PROPOSED PETERS POINT #8-2D-13-16  
WELL LOCATION (T13S, R16E, SECTION 2),  
CARBON COUNTY, UTAH

André Jendresen

CULTURAL RESOURCE INVENTORY  
OF BILL BARRETT CORPORATION'S  
PROPOSED PETERS POINT #8-2D-13-16  
WELL LOCATION (T13S, R16E, SECTION 2),  
CARBON COUNTY, UTAH

By:

André Jendresen

Prepared For:

State of Utah  
School and Institutional  
Trust Lands Administration

Prepared Under Contract With:

Bill Barrett Corporation  
1099 18<sup>th</sup> Street, Suite 2300  
Denver, CO 80202

Prepared By:

Montgomery Archaeological Consultants, Inc.  
P.O. Box 219  
Moab, Utah 84532

MOAC Report No. 07-134

April 11, 2007

State of Utah Public Lands  
Archaeological Survey Permit No. 117

State of Utah Antiquities Project (Survey)  
Permit No. U-07-MQ-0357s

## INTRODUCTION

A cultural resource inventory was conducted by Montgomery Archaeological Consultants, Inc. (MOAC) for Bill Barrett Corporation's (BBC) proposed Peters Point #8-2D-13-16 well location. The project area is located on Peter's Point, east of Sagebrush Flat, and north of Jack Creek, in Carbon County, Utah. The survey was implemented at the request of Mr. Matt Barber, Bill Barrett Corporation, Denver, Colorado. The project is situated on lands administered by the State of Utah School and Institutional Trust Lands Administration (SITLA).

The objective of the inventory was to locate, document, and evaluate any cultural resources within the project area in order to comply with Section 106 of 36 CFR 800, the National Historic Preservation Act of 1966 (as amended). Also, the inventory was implemented to attain compliance with a number of federal and state mandates, including the National Environmental and Policy Act of 1969, the Archaeological and Historic Conservation Act of 1972, the Archaeological Resources Protection Act of 1979, the American Indian Religious Freedom Act of 1978, and the Utah State Antiquities Act of 1973 (amended 1990).

The fieldwork was performed on April 4, 2007 by Keith Montgomery (Principal Investigator), under the auspices of U.S.D.I. (FLPMA) Permit No. 06-UT-60122, and State of Utah Antiquities Permit (Survey) No. U-07-MQ-0357s issued to MOAC, Moab, Utah.

A file search for previous archaeological projects and cultural resources was conducted by Keith Montgomery at the BLM Price Field Office on April 4, 2007. This consultation indicated that several cultural resource inventories have been conducted in the vicinity of the current project area.

In 2002, TRC Mariah Associates, Inc. conducted a survey of seismic lines for Dawson Geophysical Company resulting in the documentation of 45 new archaeological sites, 14 of which were recommended eligible to the NRHP (Smith 2003). In 2004, MOAC surveyed Bill Barrett Corporation's (BBC) proposed pipeline from Sagebrush Flat to the Peters Point Unit #10 well location which resulted in the documentation of eight new archaeological sites, and two isolated finds of artifact, none of which occur within the current project area (Montgomery 2004a). In April 2004, MOAC conducted a cultural resource inventory of BBC's five proposed well locations near Cottonwood Canyon, which resulted in the documentation of four new sites that are all outside of the current project area (Montgomery 2004b). In May 2004, MOAC completed a survey for BBC's proposed well locations Peter's Point State #2-2 and Peter's Point State #4-2 (Montgomery 2004c). The inventory resulted in no cultural resources. Also in 2004, MOAC conducted monitoring and a cultural resource inventory for BBC's Stone Cabin 3-D Seismic Program, which resulted in the documentation of 36 new archaeological sites, and re-visits of five previously recorded sites, one of which was re-recorded (Patterson and Whitfield 2004). In July of 2004, MOAC completed a survey for BBC of the Jack Canyon area (Patterson 2004). The inventory resulted in the location of seven previously recorded sites; 18 new sites, which included prehistoric structural sites and rock art panels; and two isolated finds of artifacts. Also in 2004, MOAC inventoried BBC's Peter's Point Unit #9-36-12-16 well location, resulting in no cultural resources (Whitfield and Montgomery 2004). In 2005, MOAC conducted an inventory of BBC's PPU Federal #4-12D-13-16 well location, which resulted in a finding of no cultural resources (Jolley and Bond 2005). In 2006, MOAC completed an inventory for the Bureau of Land Management (BLM), Price Field Office's West Tavaputs Plateau Wildlife Enhancement Project (Landt 2006). The survey resulted in the re-visitation of 14 previously documented sites, the re-recording of eight previously documented sites, and the recordation of 39 new archaeological sites. None of these sites are located within the current

project area. In August 2006, MOAC completed an inventory for BBC's proposed Peters Point #8-33-12-16, #6-34-12-16, #6-34-12-16 (Alt. 2) and #6-35-12-16 well locations, which resulted in the location of a previously recorded site and the documentation of a new site, none of which occur within the current project area (Simms 2006).

In summary, although numerous inventories have been completed in the area, no cultural resources occur in the immediate project area.

### DESCRIPTION OF PROJECT AREA

The project area lies on Peter's Point, east of Sagebrush Flat, and north of Jack Creek, in Carbon County, Utah. The legal description of the proposed well locations is Township 13 South, Range 16 East, Section 2 (Figure 1, Table 1).

Table 1. Bill Barrett Corporation's Proposed Well Location

Well Designation	Legal Location	Access/Pipeline	Cultural Resources
Peters Point #8-2D-13-16	T13S, R16E, NW/NE Sec. 2	Within 10 acre	None

In general, the study area is situated in the Bookcliffs-Roan Plateau section of the Colorado Plateau. Topography of this area consists of exposed stratigraphic escarpments which extend and dip northward under the younger materials of the Uinta Basin. The Book Cliffs are carved from Cretaceous age Mesa Verde Group sandstones while the Roan Cliffs are comprised of river and floodplain deposits from the Paleocene and Eocene ages (Stokes 1986). More specifically, the project area is located on the northern edge of the West Tavaputs Plateau, an Eocene age Green River formation. Nine Mile Canyon is situated on the north side of the plateau, carved by Nine Mile Creek (also known as Minnie Maud Creek). Soils encountered are rocky, silty, and sandy loam, derived from underlying sandstone exposures. The elevation in the project area averages 6780 ft asl. Vegetation is mainly a Pinyon/Juniper Forest Community that includes pinyon, juniper, sagebrush, yucca, prickly pear cactus, Indian ricegrass, and other grasses. Animal species reported in Nine Mile Canyon include mule deer, mountain lion, coyote, blacktail jackrabbit, cottontail rabbit, porcupine, ground squirrel, pack rat, elk, marmots, and various birds and reptiles. Most fauna found in the area today are assumed to have been present in prehistoric times, although many species were extirpated in the historic era (e.g. wolf, bison, grizzly bear). Modern disturbances consist of oil/gas development, recreation, livestock grazing, and roads.

### SURVEY METHODOLOGY

An intensive pedestrian survey was performed for this project which is considered 100% coverage. At the proposed well location a 10 acre parcel was identified, centered on the well pad center stake. The location was then surveyed by the archaeologist walking parallel transects spaced no more than 10 m (33 ft) apart. Ground visibility was considered good. A total of 10 acres was surveyed on lands administered by the State of Utah School and Institutional Trust Lands Administration (SITLA).

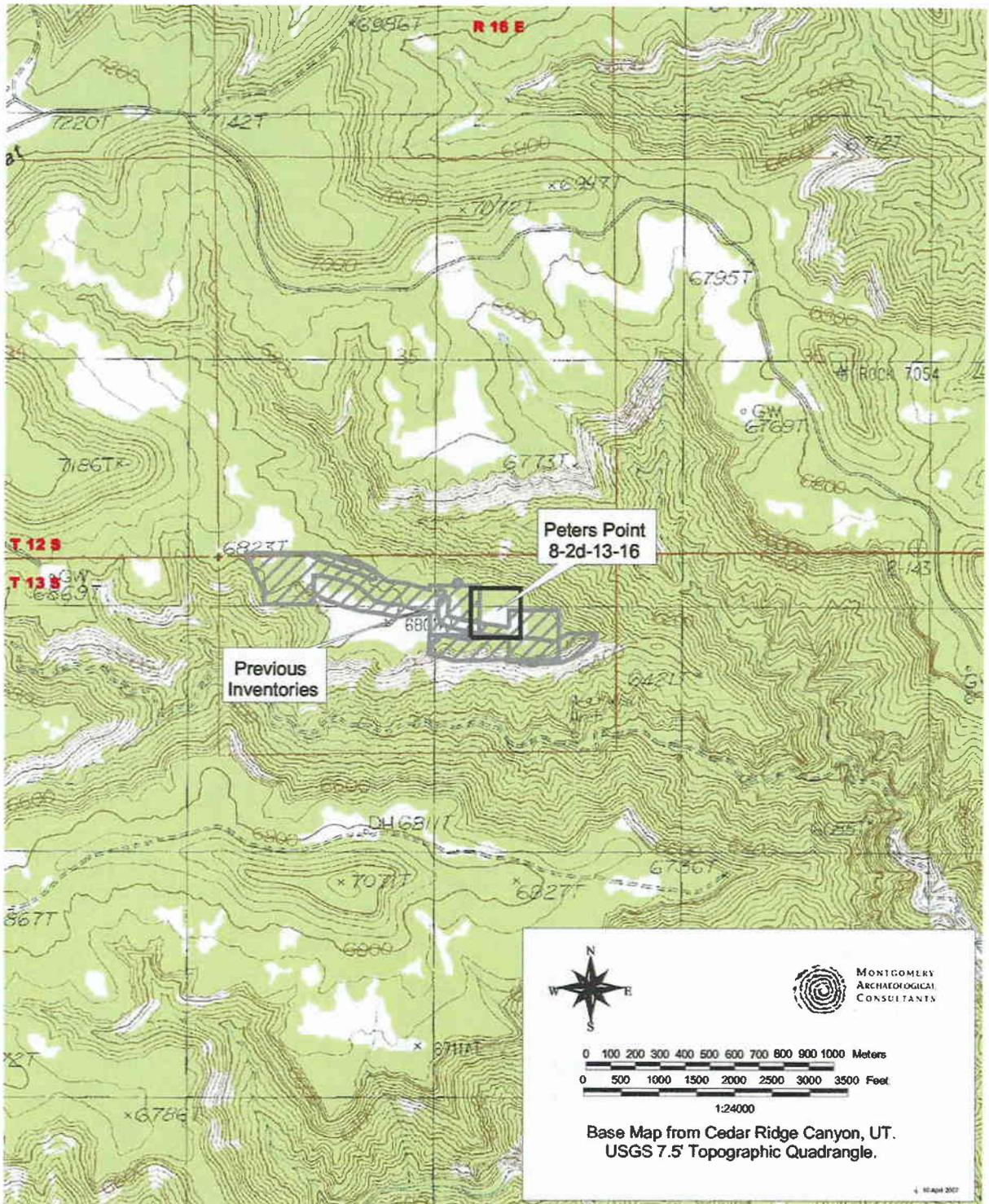


Figure 1. Bill Barrett Corporation's Proposed Peters Point #8-2D-13-16 Well Location, Carbon County, Utah.

## RESULTS AND RECOMMENDATIONS

The inventory of Bill Barrett Corporation's proposed Peters Point #8-2D-13-16 well location resulted in no cultural resources. Based on this finding, a determination of "no historic properties affected" is recommended for the undertaking pursuant to Section 106, CFR 800.

## REFERENCES CITED

- Montgomery, K. R.  
2004a Cultural Resource Inventory of Bill Barrett Corporation's Proposed Sagebrush Flat to Peters Point Unit #10 Well Location in Carbon County, Utah. Montgomery Archaeological Consultants, Moab, Utah. Project No. U-04-MQ-0344b.
- 2004b Cultural Resource Inventory of Bill Barrett Corporation's Proposed Five Well Locations Near Cottonwood Canyon: Peters Point Units Federal #8, #10, and #11A; Jack Canyon Unit Federal #15-19-12-16; and Prickly Pear Unit Federal #8-33 in Carbon County Utah. Montgomery Archaeological Consultants, Moab, Utah. Project No. U-04-MQ-0345b.
- 2004c Cultural Resource Inventory of Bill Barrett Corporation's Proposed Peter's Point State #2-2 and Peter's Point State #4-2 Well Locations, Carbon County, Utah. Montgomery Archaeological Consultants, Moab, Utah. Project No. U-04-MQ-0493b,s
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- Simms, K.  
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A Class III Cultural Resource Inventory of the Western Portion of the Dawson Stone Cabin 3-D Seismic Project, Carbon County, Utah. TRC Mariah Associates, Salt Lake City. Project No. U-02-ME-0564.

Stokes, W.L.  
1986

*Geology of Utah*. Utah Museum of Natural History and Utah Geological and Mineral Survey. Salt Lake City.

Whitfield, A. and K. R. Montgomery  
2004

Cultural Resource Inventory of Bill Barrett Corporation's Proposed Peters Point Unit #9-36-12-16 Well Location and Access Corridor, Carbon County, Utah. Montgomery Archaeological Consultants, Moab, Utah. Project No. U-04-MQ-0849.

**BILL BARRETT CORPORATION**  
**PETER'S POINT STATE #1-2D-13-16 DEEP**  
 LOCATED IN CARBON COUNTY, UTAH  
 SECTION 2, T13S, R16E, S.L.B.&M.



PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: SOUTHWESTERLY

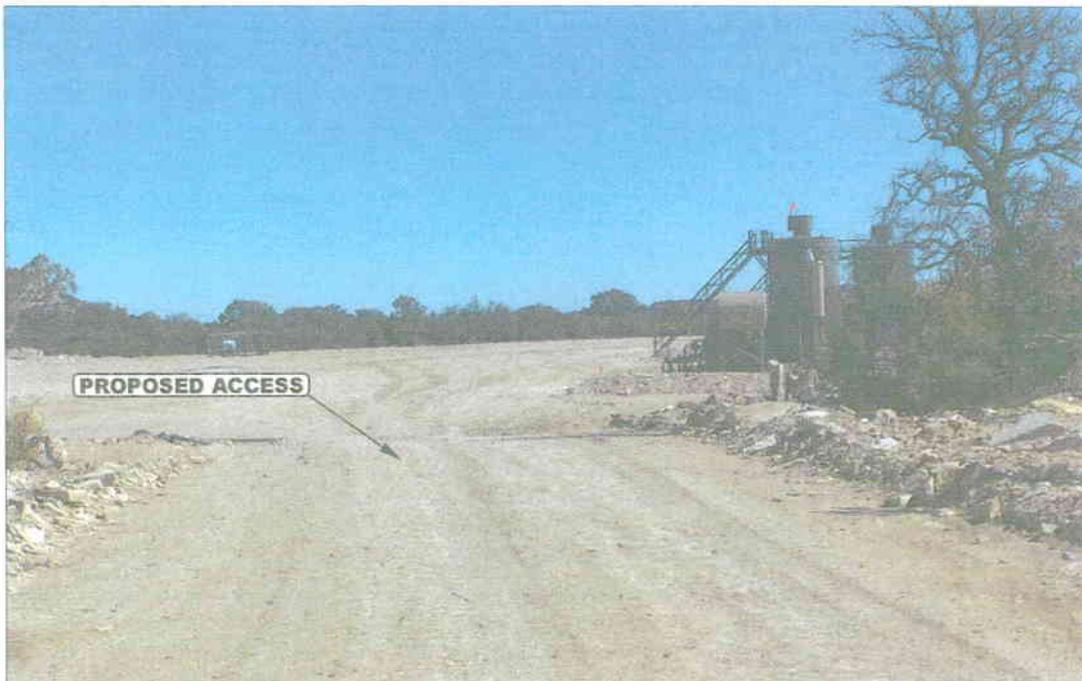


PHOTO: VIEW OF EXISTING ACCESS

CAMERA ANGLE: SOUTHEASTERLY



**UELS** Uintah Engineering & Land Surveying  
 85 South 200 East Vernal, Utah 84078  
 435-789-1017 uels@uelsinc.com

<b>LOCATION PHOTOS</b>			<b>09</b>	<b>26</b>	<b>07</b>	<b>PHOTO</b>
			MONTH	DAY	YEAR	
TAKEN BY: D.R.	DRAWN BY: Z.L.	REVISED: 00-00-00				



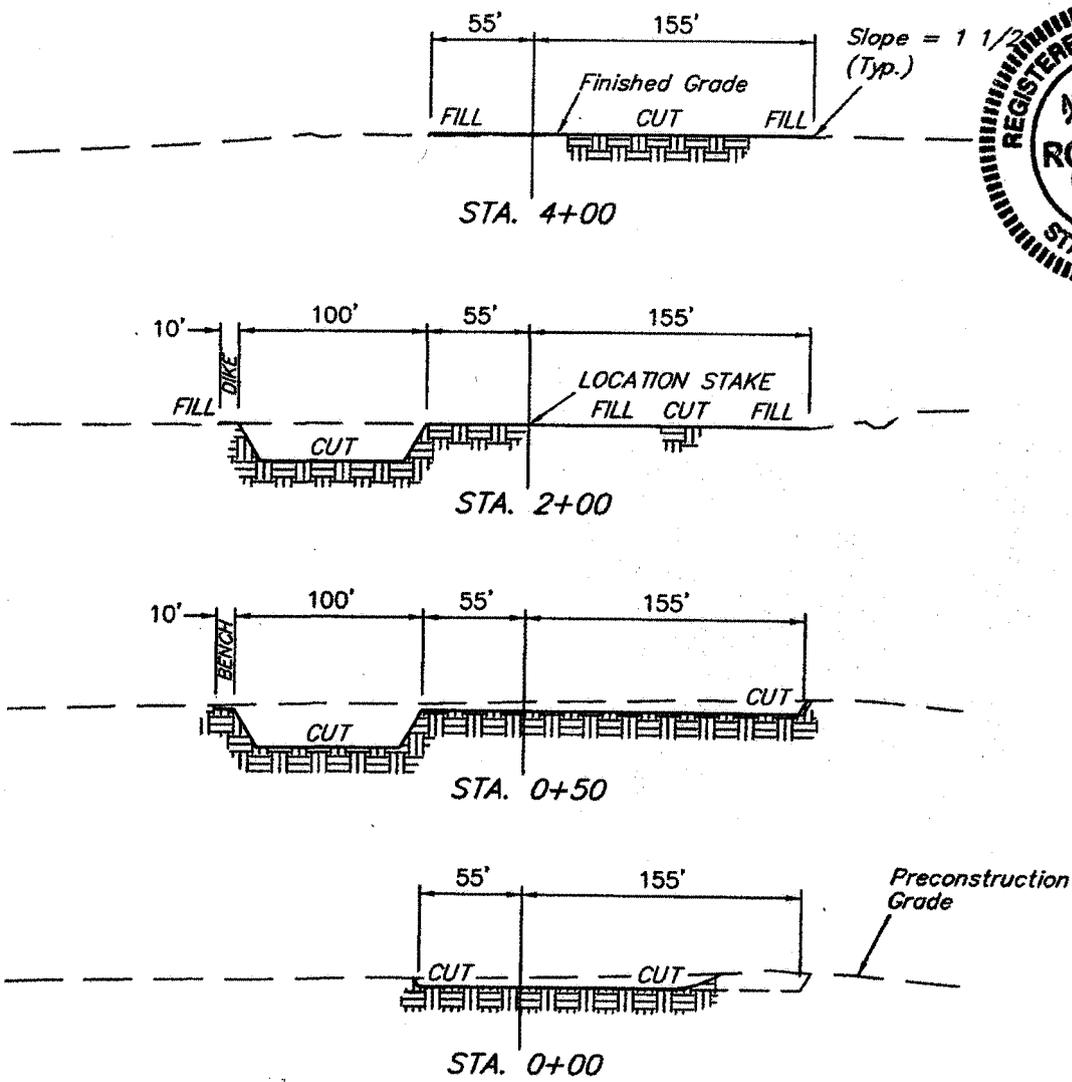
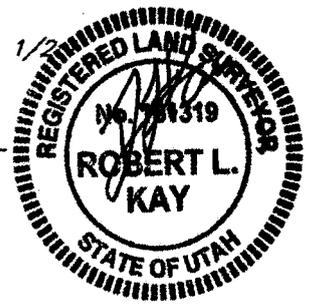
**BILL BARRETT CORPORATION**

**FIGURE #2**

**TYPICAL CROSS SECTIONS FOR  
PETERS POINT STATE #1-2D-13-16 DEEP  
SECTION 2, T13S, R16E, S.L.B.&M.  
911' FNL 1429' FEL**

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

DATE: 09-27-07  
DRAWN BY: P.M.



**APPROXIMATE ACREAGES**  
WELL SITE DISTURBANCE = ±1.083 ACRES

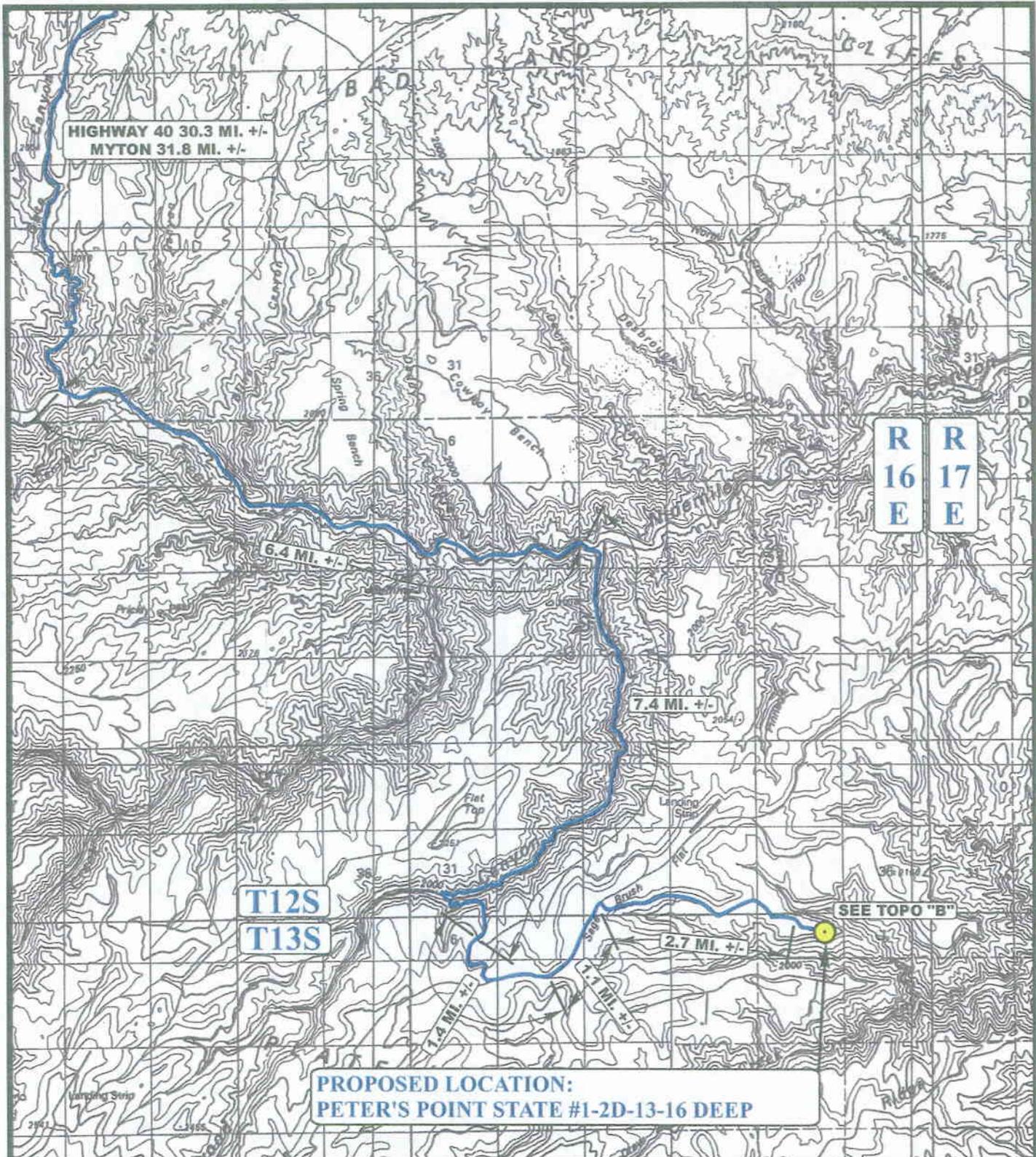
\* NOTE:  
FILL QUANTITY INCLUDES  
5% FOR COMPACTION

**APPROXIMATE YARDAGES**

CUT		
(6") Topsoil Stripping	=	740 Cu. Yds.
(New Construction Only)		
Remaining Location	=	7,120 Cu. Yds.
<b>TOTAL CUT</b>	<b>=</b>	<b>7,860 CU. YDS.</b>
<b>FILL</b>	<b>=</b>	<b>370 CU. YDS.</b>

EXCESS MATERIAL	=	7,490 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	=	3,200 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	=	4,290 Cu. Yds.

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



**PROPOSED LOCATION:  
PETER'S POINT STATE #1-2D-13-16 DEEP**

**LEGEND:**

 PROPOSED LOCATION



**BILL BARRETT CORPORATION**

**PETER'S POINT STATE #1-2D-13-16 DEEP  
SECTION 2, T13S, R16E, S.L.B.&M.  
911' FNL 1429' FEL**

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

**TOPOGRAPHIC MAP** 09 26 07  
MONTH DAY YEAR  
SCALE: 1:100,000 DRAWN BY: Z.L. REVISED: 00-00-00 **A**  
TOPO

**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 11/08/2007

API NO. ASSIGNED: 43-007-31333

WELL NAME: PP ST 1-2D-13-16 DEEP

OPERATOR: BILL BARRETT CORP ( N2165 )

PHONE NUMBER: 303-312-8134

CONTACT: TRACEY FALLANG

PROPOSED LOCATION:

NWSE 02 130S 160E

SURFACE: 0911 FNL 1429 FEL

NESE BOTTOM: 0460 FNL 0460 FEL

COUNTY: CARBON

LATITUDE: 39.72055 LONGITUDE: -110.0864

UTM SURF EASTINGS: 578301 NORTHINGS: 4396931

FIELD NAME: PETER'S POINT ( 40 )

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering	DLD	12/18/07
Geology		
Surface		

LEASE TYPE: 3 - State

LEASE NUMBER: ML48386

SURFACE OWNER: 3 - State

PROPOSED FORMATION: WINGT

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[] Ind[] Sta[] Fee[]  
(No. LPM4138148 )
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit  
(No. 90-1846 )
- RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )
- Fee Surf Agreement (Y/N)
- Intent to Commingle (Y/N)

LOCATION AND SITING:

- \_\_\_\_\_ R649-2-3.
- Unit: \_\_\_\_\_
- \_\_\_\_\_ 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: Needs Permit (11-26-07)

STIPULATIONS: 1- Spacing Strip  
2- STATEMENT OF BASIS

# PETERS POINT UNIT

⊛ PETERS POINT U FED 12

PETERS POINT  
U FED 16-35 \*

PETER'S  
POINT IIA

T12S R16E

T13S R16E

PETERS POINT  
ST 4-2-13-16 \*

PETERS POINT ST  
5-2D-13-16 DEEP

PETERS POINT ST  
5-2D-13-16 DEEP

PETERS POINT  
ST 2-2-13-16

PP ST 8-2D-13-16  
PP ST 6-2D-13-16

BHL  
1-2D-13-16 DEEP

PP ST 1-2D-13-16 DEEP  
PP ST 8-2D-13-16 (DEEP)

PETERS POINT  
U FED 4-12D-13-16

BHL  
5-2D-13-16 DEEP

BHL  
6-2D-13-16

BHL  
8-2D-13-16  
8-2D-13-16 (DEEP)

## PETER'S POINT FIELD

PETERS POINT 6

BHL  
4-12D-13-16

OPERATOR: BILL BARRETT CORP (N2165)

SEC: 2 T.13S R. 16EW

FIELD: PETERS POINT (40)

COUNTY: CARBON

SPACING: R649-3-11 / DIRECTIONAL DRILLING

Field Status	
	ABANDONED
	ACTIVE
	COMBINED
	INACTIVE
	PROPOSED
	STORAGE
	TERMINATED

Unit Status	
	EXPLORATORY
	GAS STORAGE
	NF PP OIL
	NF SECONDARY
	PENDING
	PI OIL
	PP GAS
	PP GEOTHERML
	PP OIL
	SECONDARY
	TERMINATED

### Wells Status

- GAS INJECTION
- GAS STORAGE
- LOCATION ABANDONED
- NEW LOCATION
- PLUGGED & ABANDONED
- PRODUCING GAS
- PRODUCING OIL
- SHUT-IN GAS
- SHUT-IN OIL
- TEMP. ABANDONED
- TEST WELL
- WATER INJECTION
- WATER SUPPLY
- WATER DISPOSAL
- DRILLING



OIL, GAS & MINING



PREPARED BY: DIANA MASON  
DATE: 16-NOVEMBER-2007

# Application for Permit to Drill

## Statement of Basis

11/27/2007

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Ownr	CBM
595	43-007-31333-00-00		GW	S	No
<b>Operator</b>	BILL BARRETT CORP	<b>Surface Owner-APD</b>			
<b>Well Name</b>	PP ST 1-2D-13-16 DEEP	<b>Unit</b>			
<b>Field</b>	UNDESIGNATED	<b>Type of Work</b>			
<b>Location</b>	NWSE 2 13S 16E S 911 FNL 1429 FEL	GPS Coord (UTM) 578301E 4396931N			

### Geologic Statement of Basis

Bill Barrett Corp. proposes to set 3,000' of surface casing at this location. The base of the moderately saline water is at approximately 2,800 feet in this area. This location lies on the Green River Formation. The proposed location is in a recharge area for the aquifers of the upper Green River formation and fresh water can be expected to be found in the upper Green River. A search of Division of Water Rights records indicates no water wells within a 10,000 foot radius of the proposed location. The proposed casing and cement program should adequately protect any useable ground water.

Brad Hill  
APD Evaluator

11/27/2007  
Date / Time

### Surface Statement of Basis

The location is approximately 51 road miles southwest of Myton, Utah. Access is by existing State and County roads using the Cottonwood Canyon road to reach an existing location. Steep, deep canyons, which break away from the broad somewhat gentle top bench lands and plateaus, characterize the general area. Drainage is into Nine Mile Canyon, which supports a perennial stream and joins the Green River approximately 20 miles downstream. No springs, streams or seeps are known in the immediate area.

The Peters Point State 1-2D-13-16 Deep directional well is proposed on an existing pad to be enlarged. The existing pad was used to drill and supports the producing #8-2D gas well. No problems are evident with the construction and stability of the existing pad. The reserve pit for this well is still open but will be closed and a new pit dug and lined using a portion of this area. The pad will be enlarged extending to the west. The area for enlargement is generally flat and will only require a slight amount of cut. Soils on the surface are medium deep sandy loams. Blasting for the reserve pit may be necessary. No drainage concerns exist.

The reserve pit 100' x 200' x 8' feet deep is proposed in an area of cut on the northwest corner of the location. A portion of the existing pit to be closed will be re-used for the planned pit. A 20-mil liner with an appropriate cushion of sub felt is required.

Jim Davis of SITLA attended the pre-site. He had no concerns. Kyle Beagley of the Utah Division of Wildlife Resources was invited to the pre-site but did not attend.

Floyd Bartlett  
Onsite Evaluator

11/26/2007  
Date / Time

### Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 20 mils with a felt subliner shall be properly installed and maintained in the reserve pit.

# ON-SITE PREDRILL EVALUATION

## Utah Division of Oil, Gas and Mining

**Operator** BILL BARRETT CORP  
**Well Name** PP ST 1-2D-13-16 DEEP  
**API Number** 43-007-31333-0      **APD No** 595      **Field/Unit** UNDESIGNATED  
**Location:** 1/4,1/4 NWSE      **Sec** 2      **Tw** 13S      **Rng** 16E      911 FNL 1429 FEL  
**GPS Coord (UTM)**      **Surface Owner**

### Participants

Floyd Bartlett (DOGM), Brian Getchell and Jack Findlay (Bill Barrett Corporation), Jim Davis (SITLA)

### Regional/Local Setting & Topography

The location is approximately 51 road miles southwest of Myton, Utah. Access is by existing State and County roads using the Cottonwood Canyon road to reach an existing location. Steep, deep canyons, which break away from the broad somewhat gentle top bench lands and plateaus, characterize the general area. Drainage is into Nine Mile Canyon, which supports a perennial stream and joins the Green River approximately 20 miles downstream. No springs, streams or seeps are known in the immediate area.

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The surface and minerals are owned by SITLA.

### Surface Use Plan

#### **Current Surface Use**

Wildlife Habitat  
Existing Well Pad

#### **New Road**

Miles	Well Pad	Src Const Material	Surface Formation
0	Width 315      Length 400	Onsite	GRRV

**Ancillary Facilities** N

### Waste Management Plan Adequate? Y

### Environmental Parameters

**Affected Floodplains and/or Wetland** N

#### **Flora / Fauna**

Open pinion/juniper

#### **Soil Type and Characteristics**

Moderately deep sandy loam

**Erosion Issues** N

Sedimentation Issues N

Site Stability Issues N

Drainage Diversion Required N

Berm Required? N

Erosion Sedimentation Control Required? N

Paleo Survey Run? N

Paleo Potential Observed? N

Cultural Survey Run?

Cultural Resources?

Reserve Pit

**Site-Specific Factors**

**Site Ranking**

<b>Distance to Groundwater (feet)</b>	>200	0
<b>Distance to Surface Water (feet)</b>	>1000	0
<b>Dist. Nearest Municipal Well (ft)</b>	>5280	0
<b>Distance to Other Wells (feet)</b>	<300	20
<b>Native Soil Type</b>	Mod permeability	10
<b>Fluid Type</b>	Fresh Water	5
<b>Drill Cuttings</b>	Normal Rock	0
<b>Annual Precipitation (inches)</b>	10 to 20	5
<b>Affected Populations</b>	<10	0
<b>Presence Nearby Utility Conduits</b>	Not Present	0

**Final Score** 40 1 **Sensitivity Level**

**Characteristics / Requirements**

The reserve pit 100' x 200' x 8' feet deep is proposed in an area of cut on the northwest corner of the location. A portion of the existing pit to be closed will be re-used for the planned pit. A 20-mil liner with an appropriate cushion of sub felt is required.

**Closed Loop Mud Required?** N

**Liner Required?** Y

**Liner Thickness** 20

**Pit Underlayment Required?** Y

Other Observations / Comments

Jim Davis of SITLA will check and inform Bill Barrett Corp. if additional archeological survey is needed. UTM's of the location were not taken.

Floyd Bartlett  
Evaluator

11/26/2007  
Date / Time

# 2007-12 Bill Barrett PP ST 1-2D-13-16 Deep

## Casing Schematic

Surface

BHP  $0.052(14948)12.5 = 9716.2 \text{ psi}$   
anticipate 9685 psi

Gas  $.12(14948) = 1794$   
 $9716 - 1794 = 7922 \text{ psi, MASP}$

BOPE 10M ✓

9-5/8"  
MW 9.  
Frac 19.3

Burst 7900  
70% 5530 psi!

Max P @ surf. shoe

$.22(14948) = 2629$   
 $9716 - 2629 = 7088 \text{ psi!}$

Test to 5500 psi! ✓

✓ Adequate DFD 12/18/07

4-1/2"  
MW 12.5

TOC @ 265. Green River to surf. w/15% w/o. ✓

2774' TOC w/27% w/o  
2790' Wasatch  
2800' ± BMSW  
Surface  
3000. MD  
3000. TVD

TOC @ 4482. 4623' North Horn

5417' TOC w/12% w/o  
6124' Dark Canyon  
6315' Price River, ✓  
Propose TOC to 3000!

7416' Blue Castle  
7717' Neslen  
8074' Castlegate  
8275' Blackhawk  
8594' Kenilworth  
8814' Aberdeen  
8915' Spring Canyon  
9042' Mancos  
9114' Mancos B

12262' TOC tail w/12% w/o  
12569' Juana Lopez  
12772' Dakota Silt  
12985' Dakota  
13033' Cedar Mtn.  
13078' Morrison

13812' Curtis  
14070' Entrada  
14243' Carmel  
14514' Navajo  
14591' Kayenta  
14641' Wingate

Production  
15000. MD  
14948. TVD

Well name:

**2007-12 Bill Barrett PP ST 1-2D-13-16 Deep**Operator: **Bill Barrett Corporation**String type: **Surface**

Project ID:

43-007-31333

Location: **Carbon County****Design parameters:****Collapse**Mud weight: 9.000 ppg  
Design is based on evacuated pipe.**Burst**Max anticipated surface  
pressure: 743 psi  
Internal gradient: 0.220 psi/ft  
Calculated BHP 1,403 psi

No backup mud specified.

**Minimum design factors:****Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

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

Tension is based on air weight.

Neutral point: 2,598 ft

**Environment:**H2S considered? No  
Surface temperature: 70 °F  
Bottom hole temperature: 112 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 185 ft

Cement top: 265 ft

**Non-directional string.****Re subsequent strings:**Next setting depth: 0 ft  
Next mud weight: 12.500 ppg  
Next setting BHP: 0 psi  
Fracture mud wt: 19.250 ppg  
Fracture depth: 3,000 ft  
Injection pressure: 3,000 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft <sup>3</sup> )
1	3000	9.625	40.00	HCP-110	LT&C	3000	3000	8.679	1277.2
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	1403	4230	3.016	1403	7900	5.63	120	988	8.23 J

Prepared by: Helen Sadik-Macdonald  
Div of Oil, Gas & MineralsPhone: 801/538-5357  
FAX: 801/359-3940Date: December 4, 2007  
Salt Lake City, Utah**ENGINEERING STIPULATIONS: NONE**

Collapse strength is based on the Westcott, Dunlop &amp; Kemler method of biaxial correction for tension.

Collapse is based on a vertical depth of 3000 ft, a mud weight of 9 ppg. The casing is considered to be evacuated for collapse purposes.

Burst strength is not adjusted for tension.

*Engineering responsibility for use of this design will be that of the purchaser.*

Well name:

**2007-12 Bill Barrett PP ST 1-2D-13-16 Deep**Operator: **Bill Barrett Corporation**

String type: Production

Project ID:

43-007-31333

Location: Carbon County

**Design parameters:****Collapse**Mud weight: 12.500 ppg  
Design is based on evacuated pipe.**Minimum design factors:****Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**H2S considered? No  
Surface temperature: 70 °F  
Bottom hole temperature: 279 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 368 ft

Cement top: 4,482 ft

**Burst**Max anticipated surface  
pressure: 6,418 psi  
Internal gradient: 0.220 psi/ft  
Calculated BHP 9,707 psi

No backup mud specified.

**Tension:**8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)**Directional Info - Build & Hold**Kick-off point 3060 ft  
Departure at shoe: 1056 ft  
Maximum dogleg: 1.97 °/100ft  
Inclination at shoe: 0 °

Tension is based on air weight.

Neutral point: 12,159 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft <sup>3</sup> )
1	15000	4.5	15.10	P-110	LT&C	14948	15000	3.701	1197.6
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	9707	14350	1.478	9707	14420	1.49	226	406	1.80 J

Prepared by: Helen Sadik-Macdonald  
Div of Oil, Gas & MineralsPhone: 801/538-5357  
FAX: 801/359-3940Date: December 4, 2007  
Salt Lake City, Utah**ENGINEERING STIPULATIONS: NONE**

Collapse strength is based on the Westcott, Dunlop &amp; Kemler method of biaxial correction for tension.

Collapse is based on a vertical depth of 14948 ft, a mud weight of 12.5 ppg. The casing is considered to be evacuated for collapse purposes.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

*Engineering responsibility for use of this design will be that of the purchaser.*



JON M. HUNTSMAN, JR.  
Governor

GARY R. HERBERT  
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

January 23, 2008

Bill Barrett Corporation  
1099 18th St., Ste. 2300  
Denver, CO 80202

Re: Peter's Point State 1-2D-13-16 Deep Well, 911' FNL, 1429' FEL, NW SE, Sec. 2,  
T. 13 South, R. 16 East, Bottom Location 460' FNL, 460' FEL, NE SE, Sec. 2,  
T. 13 South, R. 16 East, Carbon County, Utah

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 43-007-31333.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

cc: Carbon County Assessor  
SITLA



Operator: Bill Barrett Corporation  
Well Name & Number Peter's Point State 1-2D-13-16 Deep  
API Number: 43-007-31333  
Lease: ML-48386

Location: NW SE Sec. 2 T. 13 South R. 16 East  
Bottom Location: NE SE Sec. 2 T. 13 South R. 16 East

### 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 action during drilling of this well:

- 24 hours prior to cementing or testing casing – contact Dan Jarvis
- 24 hours prior to testing blowout prevention equipment – contact Dan Jarvis
- 24 hours prior to spudding the well – contact Carol Daniels
- Within 24 hours of any emergency changes made to the approved drilling program – contact Dustin Doucet
- Prior to commencing operations to plug and abandon the well – contact Dan Jarvis

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

- Plugging and abandonment or significant plug back of this well – contact Dustin Doucet
- Any changes to the approved drilling plan – contact Dustin Doucet

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

- Dan Jarvis at: (801) 538-5338 office (801) 942-0873 home
- Carol Daniels at: (801) 538-5284 office
- Dustin Doucet at: (801) 538-5281 office (801) 733-0983 home

#### 3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.
5. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)
6. 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.
7. 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.

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

5. LEASE DESIGNATION AND SERIAL NUMBER:  
ML-48386

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:  
n/a

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

7. UNIT or CA AGREEMENT NAME:  
n/a

1. TYPE OF WELL OIL WELL  GAS WELL  OTHER \_\_\_\_\_

8. WELL NAME and NUMBER:  
Peter's Point State 1-2D-13-16

2. NAME OF OPERATOR:  
BILL BARRETT CORPORATION

9. API NUMBER:  
4300731333

3. ADDRESS OF OPERATOR:  
1099 18th Street, Suite 2300 CITY Denver STATE CO ZIP 80202

PHONE NUMBER:  
(303) 312-8134

10. FIELD AND POOL, OR WILDCAT:  
Peter's Point/Exploratory

4. LOCATION OF WELL  
FOOTAGES AT SURFACE: Lot 2, 911' FNL, 1429' FEL

COUNTY: Carbon

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWSE 2 13S 16E

STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Permit Extension</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

This sundry is being submitted to request an extension on the APD which expires on 1/23/2009.

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 01-07-09  
By: [Signature]

NAME (PLEASE PRINT) Tracey Fallang

TITLE Regulatory Analyst

SIGNATURE [Signature]

DATE 12/31/2008

(This space for State use only)

COPY SENT TO OPERATOR

Date: 1.8.2009

Initials: KS

RECEIVED

JAN 05 2009

DIV. OF OIL, GAS & MINING

CONFIDENTIAL

**Application for Permit to Drill  
Request for Permit Extension  
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

**API:** 4300731333  
**Well Name:** Peter's Point State 1-2D-13-16  
**Location:** NWSE, Sec. 2, T13S-R16E  
**Company Permit Issued to:** Bill Barrett Corporation  
**Date Original Permit Issued:** 1/23/2008

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 right-of-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

Nancy Fallang  
Signature

12/31/2008  
Date

**Title:** Regulatory Analyst

**Representing:** Bill Barrett Corporation

RECEIVED  
JAN 05 2009  
DIV. OF OIL, GAS & MINING

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  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.	<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> ML48386
	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <b>7. UNIT or CA AGREEMENT NAME:</b>
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> PP ST 1-2D-13-16 DEEP
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP	<b>9. API NUMBER:</b> 43007313330000
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202	<b>PHONE NUMBER:</b> 303 312-8128 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0911 FNL 1429 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSE Section: 02 Township: 13.0S Range: 16.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> PETER'S POINT  <b>COUNTY:</b> CARBON  <b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 1/7/2010	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> 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"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> <b>DRILLING REPORT</b> 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:

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

This sundry is being submitted to request an extension on this APD which expires on 1/7/2010.

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

Date: January 11, 2010

By: 

<b>NAME (PLEASE PRINT)</b> Tracey Fallang	<b>PHONE NUMBER</b> 303 312-8134	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 1/4/2010	



**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 43007313330000**

**API:** 43007313330000

**Well Name:** PP ST 1-2D-13-16 DEEP

**Location:** 0911 FNL 1429 FEL QTR NWSE SEC 02 TWP 130S RNG 160E MER S

**Company Permit Issued to:** BILL BARRETT CORP

**Date Original Permit Issued:** 1/23/2008

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

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

**Signature:** Tracey Fallang

**Date:** 1/4/2010

**Title:** Regulatory Analyst **Representing:** BILL BARRETT CORP

**Date:** January 11, 2010

**By:** 



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

January 27, 2011

Bill Barrett Corporation  
1099 18<sup>th</sup> Street, #2300  
Denver, CO 80202

Re: APD Rescinded – Peter's Point State 1-2D-13-16 Deep, Sec. 2, T. 13S, R. 16E, Carbon County, Utah API No. 43-007-31333

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 January 23, 2008. On January 7, 2009 and January 11, 2010, the Division granted a one-year APD extension. No drilling activity at this location has been reported to the division. Therefore, approval to drill the well is hereby rescinded, effective January 23, 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  
Ed Bonner, SITLA