API Well Number: 43007503510000

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

FORM 3

AMENDED REPORT ☑

APPLICATION FOR PERMIT TO DRILL

1. WELL NAME and NUMBER
Horse Bench Federal 16-18D-12-17

2. TYPE OF WORK
DRILL NEW WELL ● REENTER P&A WELL ○ DEEPEN WELL ○

3. FIELD OR WILDCAT
WILDCAT

4. TYPE OF WELL
Gas Well Coalbed Methane Well: NO

5. UNIT or COMMUNITIZATION AGREEMENT NAME

6. NAME OF OPERATOR
BILL BARRETT CORP

7. OPERATOR PHONE
303 312-8164

8. ADDRESS OF OPERATOR
1099 18th Street Ste 2300, Denver, CO, 80202

9. OPERATOR E-MAIL
BHilgers@billbarrettcorp.com

10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)
UTU62645

11. MINERAL OWNERSHIP
FEDERAL ● INDIAN ○ STATE ○ FEE ○

12. SURFACE OWNERSHIP
FEDERAL ● INDIAN ○ STATE ○ FEE ○

13. NAME OF SURFACE OWNER (if box 12 = 'fee')

14. SURFACE OWNER PHONE (if box 12 = 'fee')

15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')

16. SURFACE OWNER E-MAIL (if box 12 = 'fee')

17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')

18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS
YES ○ (Submit Commingling Application) NO ●

19. SLANT
VERTICAL ○ DIRECTIONAL ● HORIZONTAL ○

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	340 FNL 543 FEL	NENE	19	12.0 S	17.0 E	S
Top of Uppermost Producing Zone	637 FSL 607 FEL	SESE	18	12.0 S	17.0 E	S
At Total Depth	637 FSL 607 FEL	SESE	18	12.0 S	17.0 E	S

21. COUNTY
CARBON

22. DISTANCE TO NEAREST LEASE LINE (Feet)
637

23. NUMBER OF ACRES IN DRILLING UNIT
40

25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)
9956

26. PROPOSED DEPTH
MD: 7683 TVD: 7550

27. ELEVATION - GROUND LEVEL
6705

28. BOND NUMBER
WYB000040

29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE
NINE MILE CANYON

Hole, Casing, and Cement Information

String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Cond	24	14	0 - 40	65.0	Unknown	8.6	No Used	0	0.0	0.0
Surf	12.25	9.625	0 - 1000	36.0	J-55 ST&C	8.6	Varocem	170	2.53	12.0
							Halliburton Premium , Type Unknown	190	1.16	15.8
Prod	8.75	4.5	0 - 7683	11.6	P-110 LT&C	9.5	Halliburton Light , Type Unknown	310	1.96	12.5
							50/50 Poz	1270	1.45	13.4

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
- ☐ AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)
- ☐ FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
- ☑ DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)
- ☑ TOPOGRAPHICAL MAP

NAME Brady Riley | **TITLE** Permit Analyst | **PHONE** 303 312-8115

SIGNATURE | **DATE** 09/28/2012 | **EMAIL** briley@billbarrettcorp.com

API NUMBER ASSIGNED
43007503510000

APPROVAL
Permit Manager

RECEIVED: November 01, 2012

DRILLING PROGRAM

BILL BARRETT CORPORATION

Horse Bench Federal 16-18D-12-17

NENE, 340' FNL, 543' FEL, Sec. 19, T12S-R17E (surface hole)
SESE, 637' FSL, 607' FEL, Sec. 18, T12S-R17E (bottom hole)
Carbon County, Utah

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

Formation	Depth – MD	Depth – TVD
Green River	Surface	Surface
Wasatch	3,417'	3340'
North Horn	5,403'	5270'
Dark Canyon	6,833'	6700'
Price River	7,183'	7050'
TD	7,683'	7550'

PROSPECTIVE PAY: *Members of the Mesaverde formation and Wasatch formation (inclusive of the North Horn) are primary objectives for oil/gas. Any shallow water zones encountered will be adequately protected and reported. All potentially productive hydrocarbon zones will be cemented off.

3. BOP and Pressure Containment Data

Depth Intervals	BOP Equipment
0 – 1000'	No pressure control required
1000' – TD	11" 3000# Ram Type BOP 11" 3000# Annular BOP
- Drilling spool to accommodate choke and kill lines;	
- Ancillary equipment and choke manifold rated at 3,000#. All BOP and BOPE tests will be in accordance with the requirements of onshore Order No. 2;	
- The BLM and 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.	

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Bill Barrett Corporation
Drilling Program
Horse Bench Federal 16-18D-12-17
Carbon County, Utah

4. Casing Program

Hole Size	Setting Depth From	Setting Depth To	Casing Size	Casing Weight	Casing Grade	Thread	Condition
24”	Surface	40’	14”	65#			
12 ¼”	Surface	1000’	9 5/8”	36#	J or K 55	ST&C	New
8 ¾” and 7 7/8”	Surface	TD’	4 ½”	11.6#	I-100, N-80, P110	LT&C	New
Note: BBC will use one of the options of production casing size noted above. Casing grade for each option could be I-100, P-110 or I-80. In addition, the 7 7/8” hole size will begin at the point the bit is changed.							

5. Cementing Program

14” Conductor Casing	Grout cement
9 5/8” Surface Casing	*Lead* with approximately 170 sx Varicem cement + additives mixed at 12.0 ppg (yield = 2.53 ft^3/sx). *Tail* with approximately and 190 sx Halcem cement with additives mixed at 15.8 ppg (yield = 1.16 ft^3/sx) circulated to surface with 100% excess.
4 ½” Production Casing	*Lead* with approximately 310 sx of Halliburton Light Premium cement with additives mixed at 12.5 ppg (yield = 1.96 ft^3/sx). *Tail* with approximately 1270 sx of 50/50 Poz cement + additives mixed at 13.4 ppg (yield = 1.45 ft^3/sk), circulated to ~800’ with 15% excess.
Note: Actual volumes to be calculated from caliper log.	

6. Mud Program

Interval	Weight	Viscosity	Fluid Loss (API filtrate)	Remarks
0 – 40’	8.3 – 8.6	27 – 40	--	Native Spud Mud
40’ – 1000’	8.3 – 8.6	27 – 40	15 cc or less	Native/Gel/Lime
1000’ – TD	8.6 – 9.5	38 – 46	15 cc or less	LSND/DAP
Note: Sufficient mud materials to maintain mud properties, control lost circulation and to contain “kicks” will be available at wellsite. BBC may require minor amounts of diesel to be added to its fluid system in order to reduce torque and drag.				

7. Testing, Logging and Core Programs

Cores	None anticipated;
Testing	None anticipated;
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.

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8. Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated bottom hole pressure equals approximately 3795 psi* and maximum anticipated surface pressure equals approximately 2105 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:	1/1/2013
Spud:	1/1/2013
Duration:	10 days drilling time
	15 days completion time

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Other -Onshore Variances Requested

Use of EFM and Flow Conditioner (Onshore Order No. 5)
Use of an electronic flow meter (EFM) for gas measurement purposes is requested with this application.

Use of a flow conditioner is also being requested (versus straightening vanes). Flow conditioners have been proven to be as or more effective than straightening vanes in conditioning gas for measurement. In addition to their superior conditioning properties, they take up less space (shorter meter runs/smaller footprint), and are less prone to corrosion and dislodging (greater reliability). In the past BBC has experienced straightening vanes becoming dislodged in normal service and compromising their conditioning effectiveness.

Make/Model: CPA 50E
Dimensions: 2" or 3" Flanged conditioners - 16" minimum up to 3 1/2' long x 2" (ID 2.067) OR 24" minimum up to 3 1/2' long x 3" (ID 3.068)

Air Drilling (Onshore Order No. 2)
Air drilling operations will be conducted with the purpose of drilling and setting surface casing with a truck mounted air rig, for all Federal wells located at this pad. Surface casing is approximately 1000'. Bill Barrett Corporation will comply with the following surface air drilling operation requirements:

1. Properly lubricated and maintained diverter system in place of a rotating head. The diverter system forces air and cutting returns to the cuttings pit and is used solely to drill the surface hole. In addition, BBC will use a properly lubricated and maintained rotating head in compliance with OOG No. 2.
2. The Blooie line will discharge at least 100 feet from the wellbore and will be securely anchored.
3. An automatic igniter or continuous pilot light will be installed at the end of the blooie line.
4. Compressors that supply energy to drill the air filled surface hole will be located 100' away from the wellbore and on the opposite side of the blooie line. The compressors will be equipped with 1) emergency kill switch, 2) pressure relief valves 3) spark arresters on the motors.

RECEIVED: September 28, 2012

PRESSURE CONTROL EQUIPMENT – Schematic Attached

A. Type: Eleven (11) Inch Double Gate Hydraulic BOP with Eleven (11) Inch Annular Preventer. The blow out preventer will be equipped as follows:

1. One (1) blind ram (above).
2. One (1) pipe ram (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) choke line valves (3-inch minimum).
6. Kill line (2-inch minimum).
7. Two (2) chokes.
8. Two (2) kill line valves, one of which shall be a check valve (2-inch minimum).
9. Upper kelly cock valve with handles available.
10. Safety valve(s) & subs to fit all drill string connections in use.
11. Pressure gauge on choke manifold.
12. Fill-up line above the uppermost preventer.

B. Pressure Rating: 3,000 psi

C. Testing Procedure:

Annular Preventer

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 yieldstrength 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 requirmentsof 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

NINE MILE CEMENT VOLUMES

Well Name: HORSE BENCH FEDERAL 16-18D-12-17

Surface Hole Data:

Total Depth:	1,000'
Top of Cement:	0'
OD of Hole:	12.250"
OD of Casing:	9.625"

Calculated Data:

Lead Volume:	203.6	ft^3
Lead Fill:	650'	
Tail Volume:	109.6	ft^3
Tail Fill:	350'	

Cement Data:

Lead Yield:	2.53	ft^3/sk
Tail Yield:	1.16	ft^3/sk
% Excess:	100%	

Calculated # of Sacks:

# SK's Lead:	170
# SK's Tail:	190

Production Hole Data:

Total Depth:	7,683'
Top of Cement:	800'
OD of Hole:	8.750"
OD of Casing:	4.500"

Calculated Data:

Lead Volume:	522.1	ft^3
Lead Fill:	1,700'	
Tail Volume:	1591.9	ft^3
Tail Fill:	5,183'	

Cement Data:

Lead Yield:	1.96	ft^3/sk
Tail Yield:	1.45	ft^3/sk
% Excess:	15%	

Calculated # of Sacks:

# SK's Lead:	310
# SK's Tail:	1270

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HORSE BENCH FEDERAL 16-18D-12-17 Proposed Cementing Program

Job Recommendation — **Surface Casing**

Lead Cement - (650' - 0')

Varicem ™ Cement	Fluid Weight:	12	lbm/gal
0.25 lbm/sk Poly-E-Flake	Slurry Yield:	2.53	ft^3/sk
	Total Mixing Fluid:	14.82	Gal/sk
	Top of Fluid:	0'	
	Calculated Fill:	650'	
	Volume:	36.25	bbl
	Proposed Sacks:	**170**	**sks**

Tail Cement - (1000' - 650')

Halcem ™ System	Fluid Weight:	15.8	lbm/gal
2.0% Calcium Chloride	Slurry Yield:	1.16	ft^3/sk
	Total Mixing Fluid:	4.98	Gal/sk
	Top of Fluid:	650'	
	Calculated Fill:	350'	
	Volume:	19.52	bbl
	Proposed Sacks:	**190**	**sks**

Job Recommendation — **Production Casing**

Lead Cement - (800' - 2500')

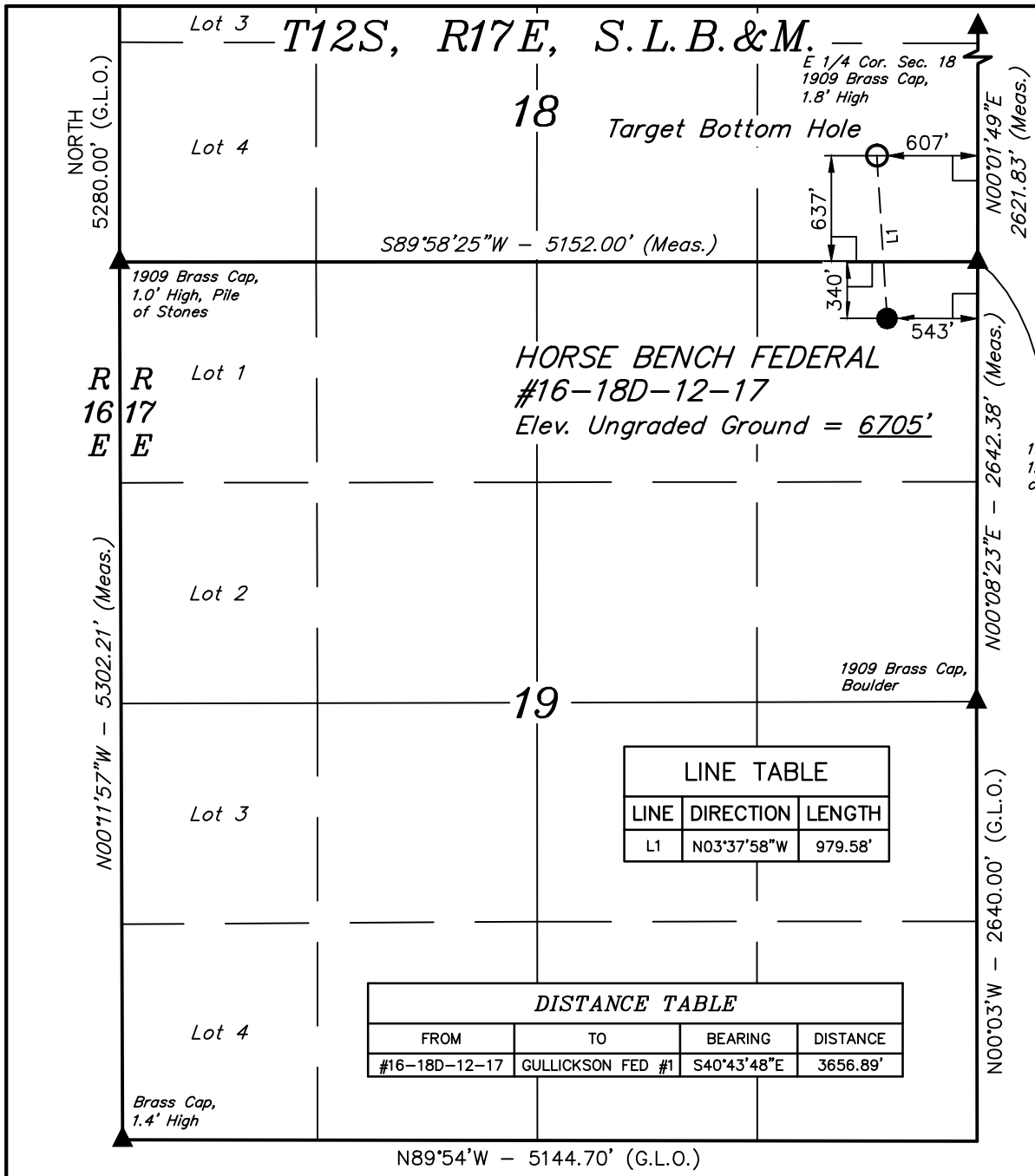
Halliburton Light Premium	Fluid Weight:	12.5	lbm/gal
0.3% Versaset	Slurry Yield:	1.96	ft^3/sk
0.3% Super CBL	Total Mixing Fluid:	10.48	Gal/sk
0.125 lbm/sk Poly-E-Flake	Top of Fluid:	800'	
0.25% Fe-2	Calculated Fill:	1,700'	
0.2% Econolite	Volume:	92.99	bbl
	Proposed Sacks:	**310**	**sks**

Tail Cement - (2500' - 7683')

50/50 Poz Premium	Fluid Weight:	13.4	lbm/gal
3.0 % KCL	Slurry Yield:	1.45	ft^3/sk
0.75% Halad®-322	Total Mixing Fluid:	6.82	Gal/sk
0.2% FWCA	Top of Fluid:	2,500'	
0.3% Super CBL	Calculated Fill:	5,183'	
0.125 lbm/sk Poly-E-Flake	Volume:	283.50	bbl
1.0 lbm/sk Granulite TR 1/4	**Proposed Sacks:**	**1270**	**sks**

RECEIVED: September 28, 2012

API Well Number: 43007503510000



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N03°37'58"W	979.58'

DISTANCE TABLE			
FROM	TO	BEARING	DISTANCE
#16-18D-12-17	GULLICKSON FED #1	S40°43'48"E	3656.89'

BILL BARRETT CORPORATION

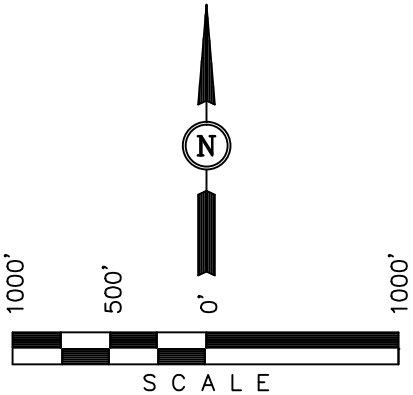
Well location, HORSE BENCH FEDERAL #16-18D-12-17, located as shown in the NE 1/4 NE 1/4 of Section 19, T12S, R17E, S.L.B.&M., Carbon County, Utah.

BASIS OF ELEVATION

COTTON TRIANGULATION STATION LOCATED IN THE NW 1/4 OF SECTION 31, T12S, R16E, S.L.B.&M. TAKEN FROM THE TWIN HOLLOW QUADRANGLE, UTAH, CARBON COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 7386 FEET.

BASIS OF BEARINGS

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



CERTIFICATE

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

REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

REVISED: 09-24-12

LEGEND:

└ = 90° SYMBOL

● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED.

NAD 83 (TARGET BOTTOM HOLE)	NAD 83 (SURFACE LOCATION)
LATITUDE = 39°46'05.80" (39.768278)	LATITUDE = 39°45'56.14" (39.765594)
LONGITUDE = 110°02'50.71" (110.047419)	LONGITUDE = 110°02'49.93" (110.047203)
NAD 27 (TARGET BOTTOM HOLE)	NAD 27 (SURFACE LOCATION)
LATITUDE = 39°46'05.93" (39.768314)	LATITUDE = 39°45'56.27" (39.765631)
LONGITUDE = 110°02'48.17" (110.046713)	LONGITUDE = 110°02'47.39" (110.046497)
STATE PLANE NAD 27	STATE PLANE NAD 27
N: 525975.36 E: 2408481.51	N: 524999.09 E: 2408558.26

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

SCALE 1" = 1000'	DATE SURVEYED: 09-11-12	DATE DRAWN: 09-18-12
PARTY B.H. R.H. C.C.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE BILL BARRETT CORPORATION	

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API Well Number: 43007503510000

BILL BARRETT CORPORATION

HORSE BENCH FEDERAL NE 19 PAD

HORSE BENCH FEDERAL #4-20D-12-17 & #16-18D-12-17 FUTURE: #1-19D-12-17, #7-19D-12-17, #2-19D-12-17, #14-17D-12-17, #13-17D-12-17 & #15-18D-12-17

LOCATED IN CARBON COUNTY, UTAH

SECTION 19, T12S, R17E, S.L.B.&M.

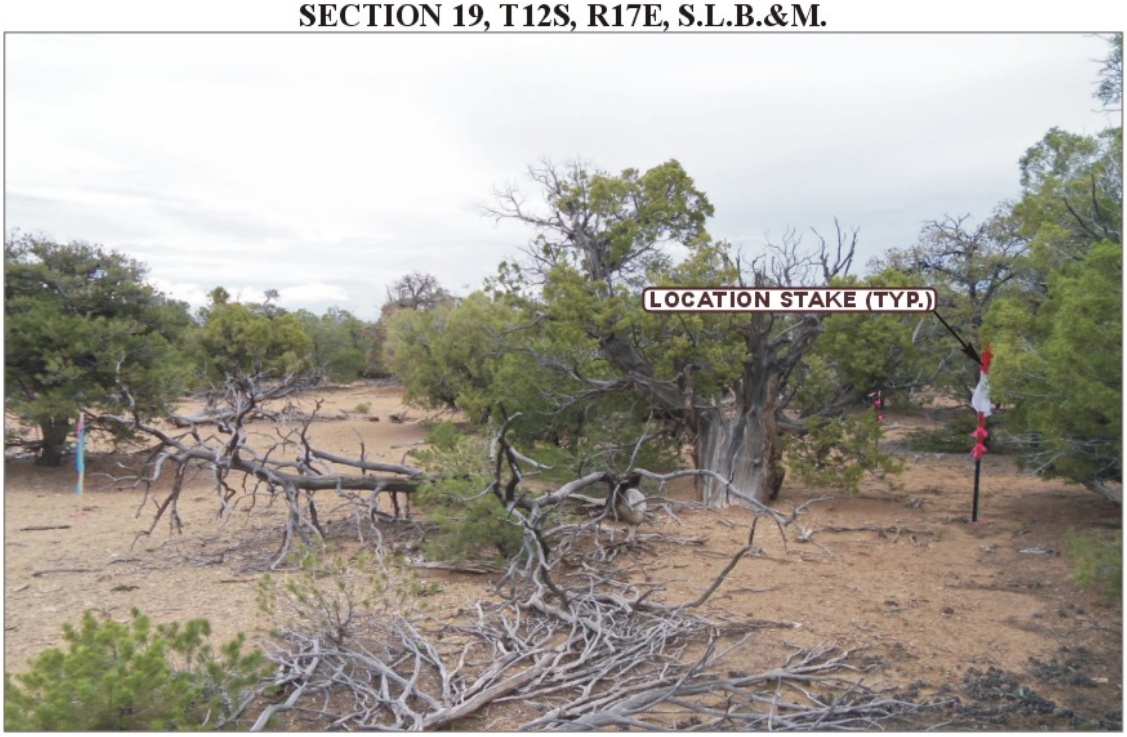


PHOTO: VIEW OF LOCATION STAKES — CAMERA ANGLE: NORTHEASTERLY

PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS — CAMERA ANGLE: NORTHEASTERLY

- Since 1964 -

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

LOCATION PHOTOS	09 MONTH	19 DAY	12 YEAR	PHOTO
TAKEN BY: B.H.	DRAWN BY: C.I.	REVISED: 09-24-12		

API Well Number: 43007503510000

BILL BARRETT CORPORATION

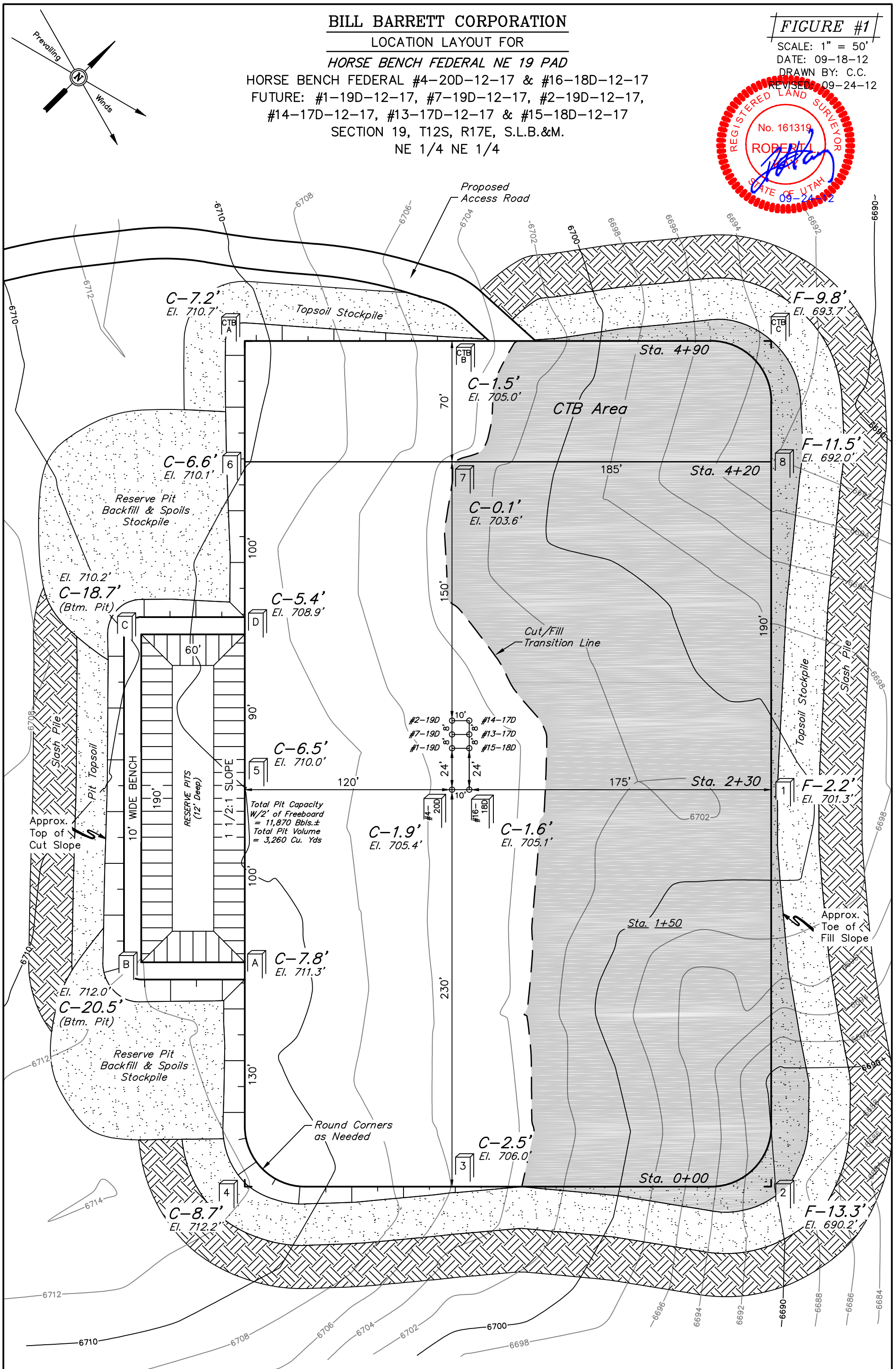
LOCATION LAYOUT FOR

HORSE BENCH FEDERAL NE 19 PAD

HORSE BENCH FEDERAL #4–20D–12–17 & #16–18D–12–17
FUTURE: #1–19D–12–17, #7–19D–12–17, #2–19D–12–17,
#14–17D–12–17, #13–17D–12–17 & #15–18D–12–17
SECTION 19, T12S, R17E, S.L.B.&M.
NE 1/4 NE 1/4

FIGURE #1
SCALE: 1" = 50'
DATE: 09–18–12
DRAWN BY: C.C.
REVISED: 09–24–12

REGISTERED LAND SURVEYOR No. 161319 ROBERT L. KAY STATE OF UTAH 09-24-12



Elev. Ungraded Ground At #4–20D Loc. Stake = 6705.4'
FINISHED GRADE ELEV. AT #4–20D LOC. STAKE = 6703.5'

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

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BILL BARRETT CORPORATION

TYPICAL CROSS SECTIONS FOR

HORSE BENCH FEDERAL NE 19 PAD

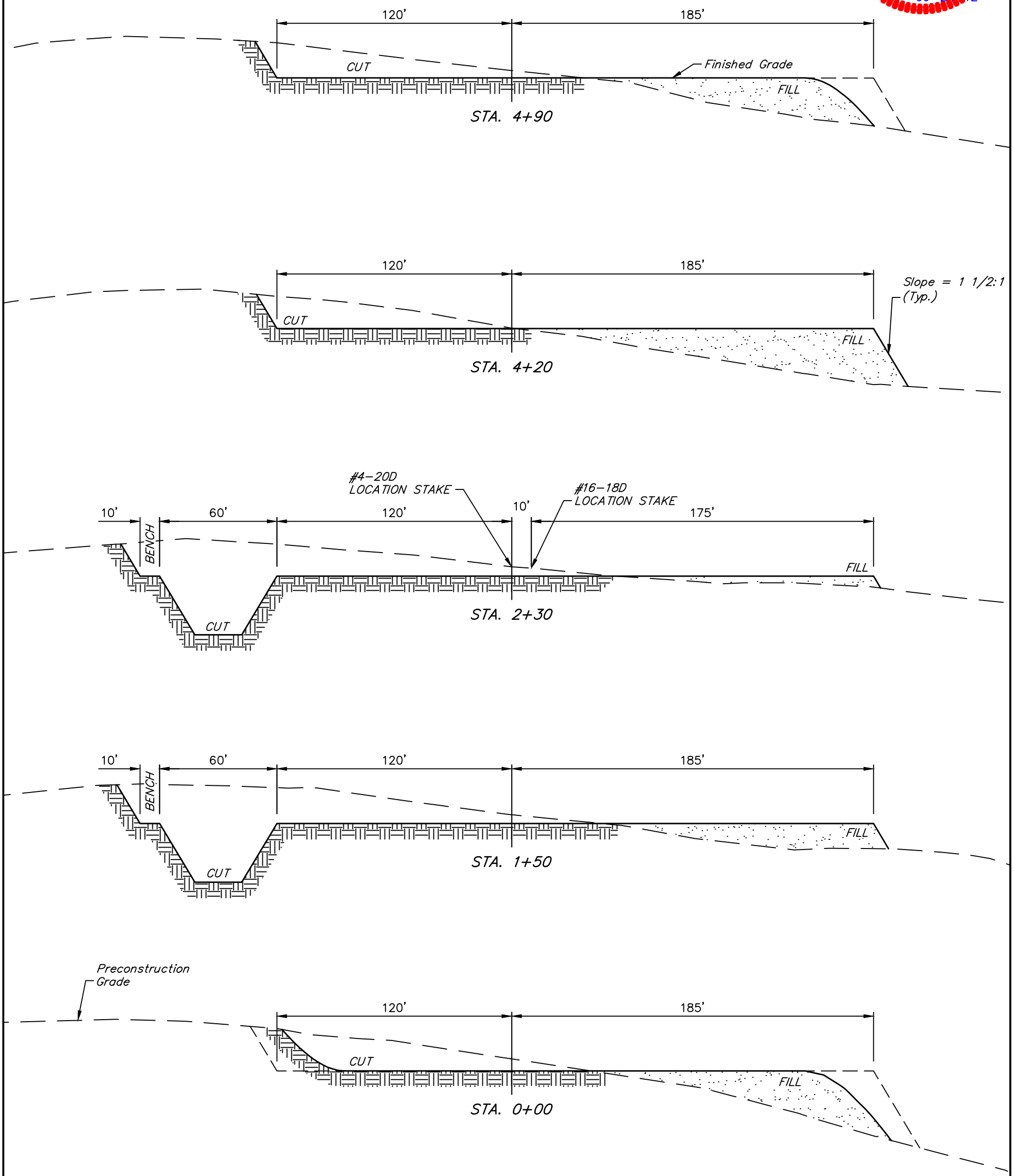
HORSE BENCH FEDERAL #4–20D–12–17 & #16–18D–12–17
FUTURE: #1–19D–12–17, #7–19D–12–17, #2–19D–12–17,
#14–17D–12–17, #13–17D–12–17 & #15–18D–12–17
SECTION 19, T12S, R17E, S.L.B.&M.
NE 1/4 NE 1/4

FIGURE #2

1" = 20' X–Section Scale
1" = 50'

DATE: 09–18–12
DRAWN BY: C.C.
REVISED: 09–24–12

REGISTERED LAND SURVEYOR No. 161319 ROBERT L. KAY STATE OF UTAH 09–24–12



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

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

APPROXIMATE YARDAGES

(6") Topsoil Stripping	=	*3,340* Cu. Yds.
Remaining Location	=	*16,090* Cu. Yds.
TOTAL CUT	=	*19,430* CU.YDS.
FILL	=	*14,460* CU.YDS.

EXCESS MATERIAL	=	*4,970* Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	=	*4,970* Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	=	*0* Cu. Yds.

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*85 So. 200 East * Vernal, Utah 84078 * (435) 789–1017*

RECEIVED: September 28, 2012

BILL BARRETT CORPORATION

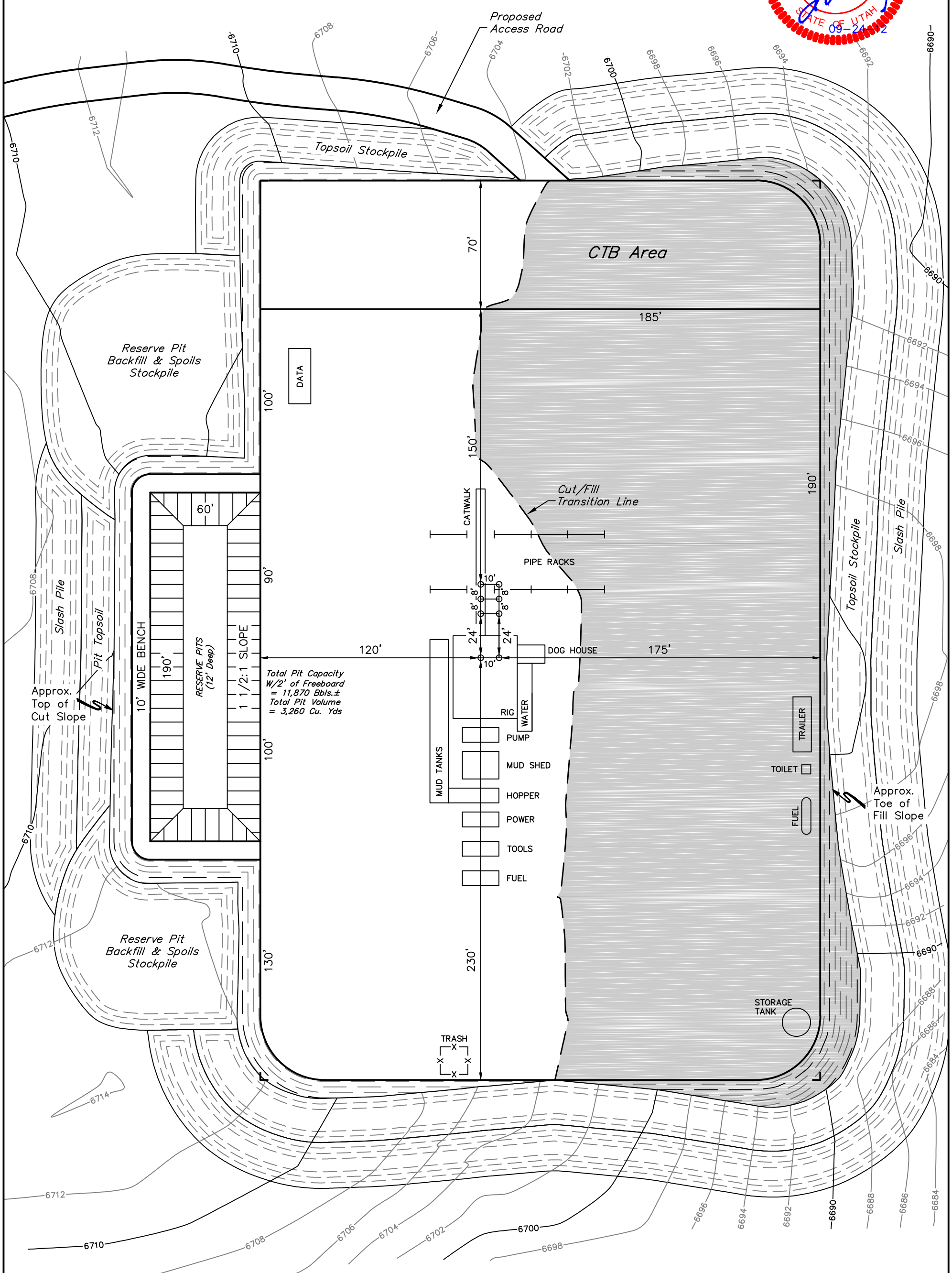
TYPICAL RIG LAYOUT FOR

HORSE BENCH FEDERAL NE 19 PAD

HORSE BENCH FEDERAL #4-20D-12-17 & #16-18D-12-17
FUTURE: #1-19D-12-17, #7-19D-12-17, #2-19D-12-17,
#14-17D-12-17, #13-17D-12-17 & #15-18D-12-17
SECTION 19, T12S, R17E, S.L.B.&M.
NE 1/4 NE 1/4

FIGURE #3
SCALE: 1" = 50'
DATE: 09-18-12
DRAWN BY: C.C.
REVISED: 09-24-12

REGISTERED LAND SURVEYOR No. 161319 ROBERT L. KAY STATE OF UTAH 09-24-12



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

RECEIVED: September 28, 2012

API Well Number: 43007503510000

BILL BARRETT CORPORATION

INTERIM RECLAMATION FOR

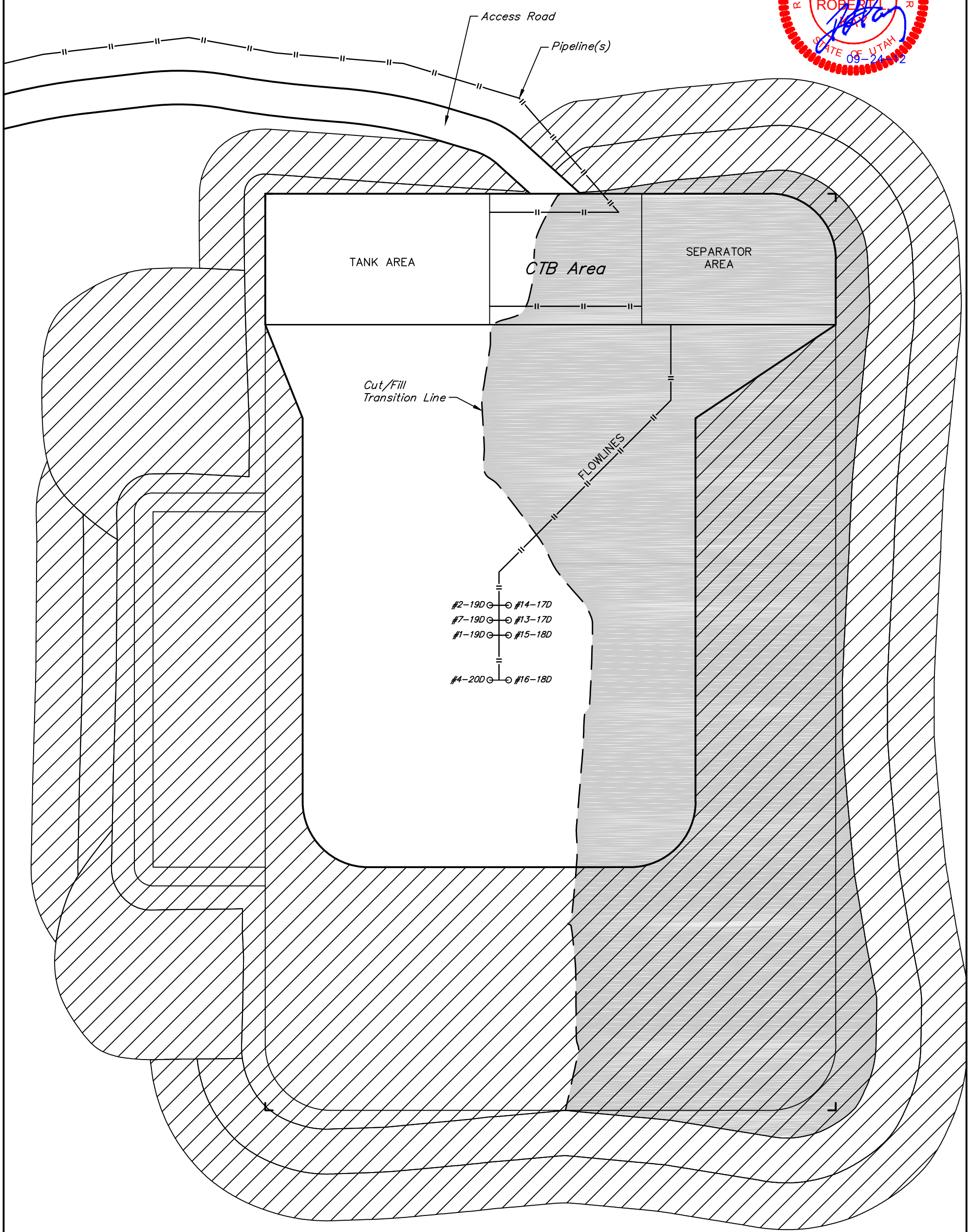
HORSE BENCH FEDERAL NE 19 PAD

HORSE BENCH FEDERAL #4-20D-12-17 & #16-18D-12-17
FUTURE: #1-19D-12-17, #7-19D-12-17, #2-19D-12-17,
#14-17D-12-17, #13-17D-12-17 & #15-18D-12-17
SECTION 19, T12S, R17E, S.L.B.&M.
NE 1/4 NE 1/4

FIGURE #4

SCALE: 1" = 50'
DATE: 09-18-12
DRAWN BY: C.C.
REVISED: 09-24-12

REGISTERED LAND SURVEYOR No. 161319 ROBERT L. STATE OF UTAH 09-24-12



RECLAIMED AREA

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

RECEIVED: September 28, 2012

BILL BARRETT CORPORATION

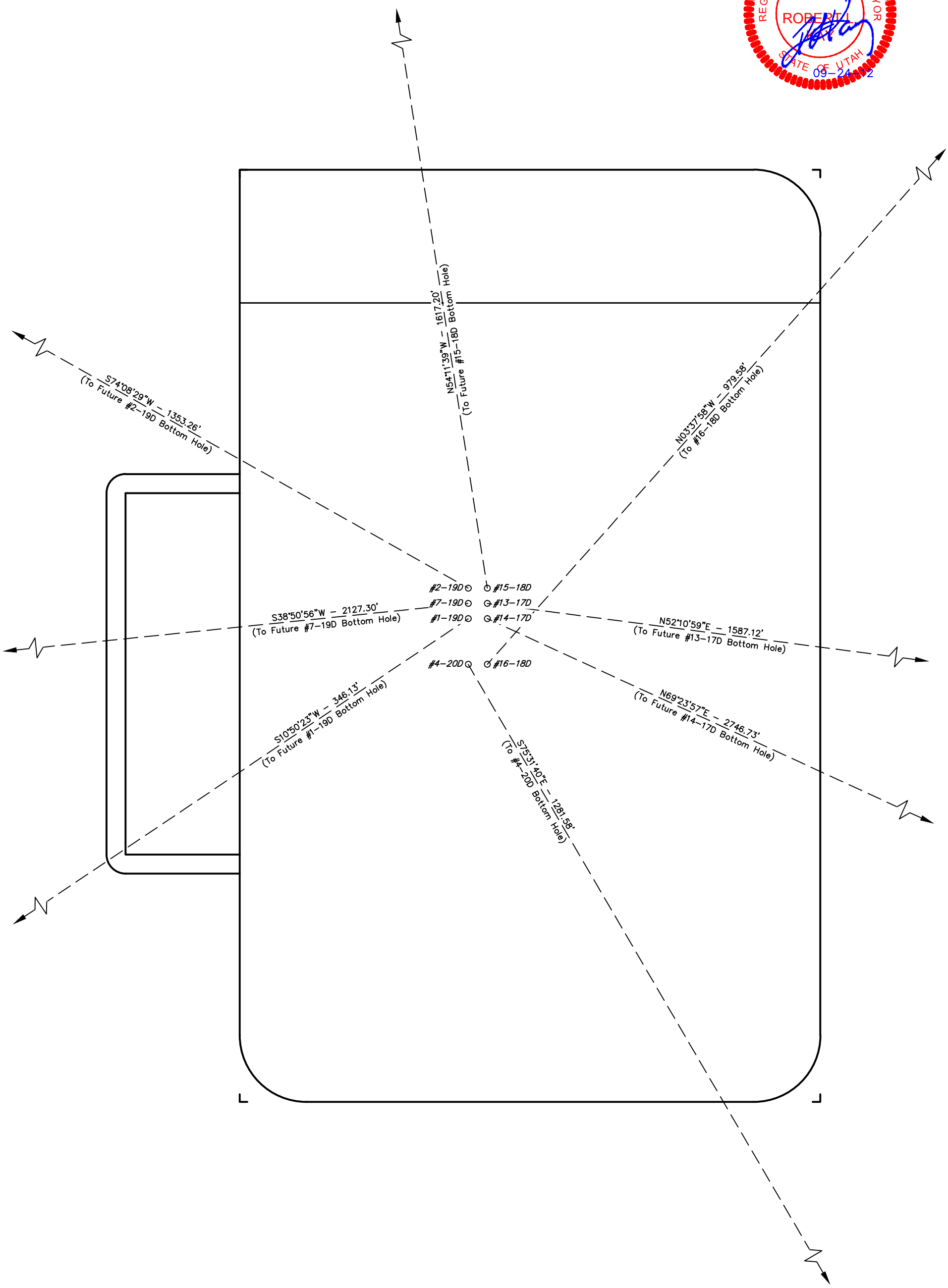
INTERFERENCE DIAGRAM FOR

HORSE BENCH FEDERAL NE 19 PAD

HORSE BENCH FEDERAL #4–20D–12–17 & #16–18D–12–17
FUTURE: #1–19D–12–17, #7–19D–12–17, #2–19D–12–17,
#14–17D–12–17, #13–17D–12–17 & #15–18D–12–17
SECTION 19, T12S, R17E, S.L.B.&M.
NE 1/4 NE 1/4

FIGURE #5
SCALE: 1" = 50'
DATE: 09–18–12
DRAWN BY: C.C.
REVISED: 09–24–12

REGISTERED LAND SURVEYOR No. 161319 ROBERT L. KAY STATE OF UTAH 09–24–12



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

RECEIVED: September 28, 2012

BILL BARRETT CORPORATION

HORSE BENCH FEDERAL NE 19 PAD

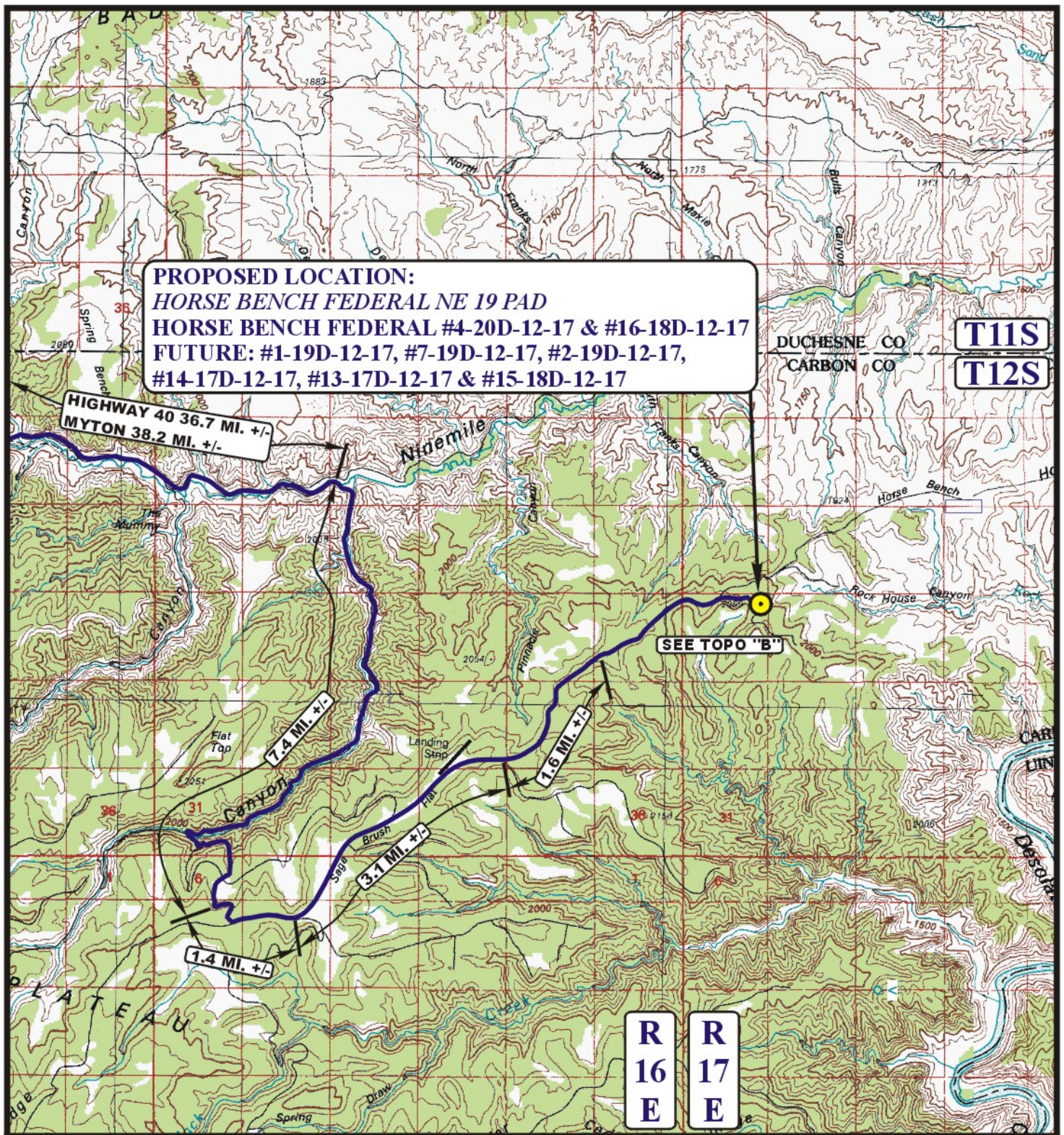
HORSE BENCH FEDERAL #4-20D-12-17 & #16-18D-12-17
FUTURE: #1-19D-12-17, #7-19D-12-17, #2-19D-12-17, #14-17D-12-17, #13-17D-12-17 & #15-18D-12-17
SECTION 19, T12S, R17E, S.L.B.&M.

PROCEED IN A SOUTHWESTERLY DIRECTION FROM MYTON, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 1.4 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY, THEN SOUTHWESTERLY, THEN SOUTHERLY DIRECTION APPROXIMATELY 1.5 MILES TO THE JUNCTION OF THIS ROAD AND NINE MILE CANYON ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 33.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY, THEN EASTERLY DIRECTION APPROXIMATELY 6.6 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; PROCEED IN AN EASTERLY, THEN SOUTHERLY, THEN SOUTHWESTERLY, THEN SOUTHERLY DIRECTION APPROXIMATELY 7.4 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY, THEN SOUTHERLY, THEN EASTERLY DIRECTION APPROXIMATELY 1.4 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN LEFT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 3.1 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 1.6 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE NORTHEAST; FOLLOW ROAD FLAGS IN A NORTHEASTERLY, THEN EASTERLY, THEN NORTHEASTERLY DIRECTION APPROXIMATELY 11,015’ TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM MYTON, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 53.8 MILES.

RECEIVED: September 28, 2012

API Well Number: 43007503510000



LEGEND:

PROPOSED LOCATION

BILL BARRETT CORPORATION

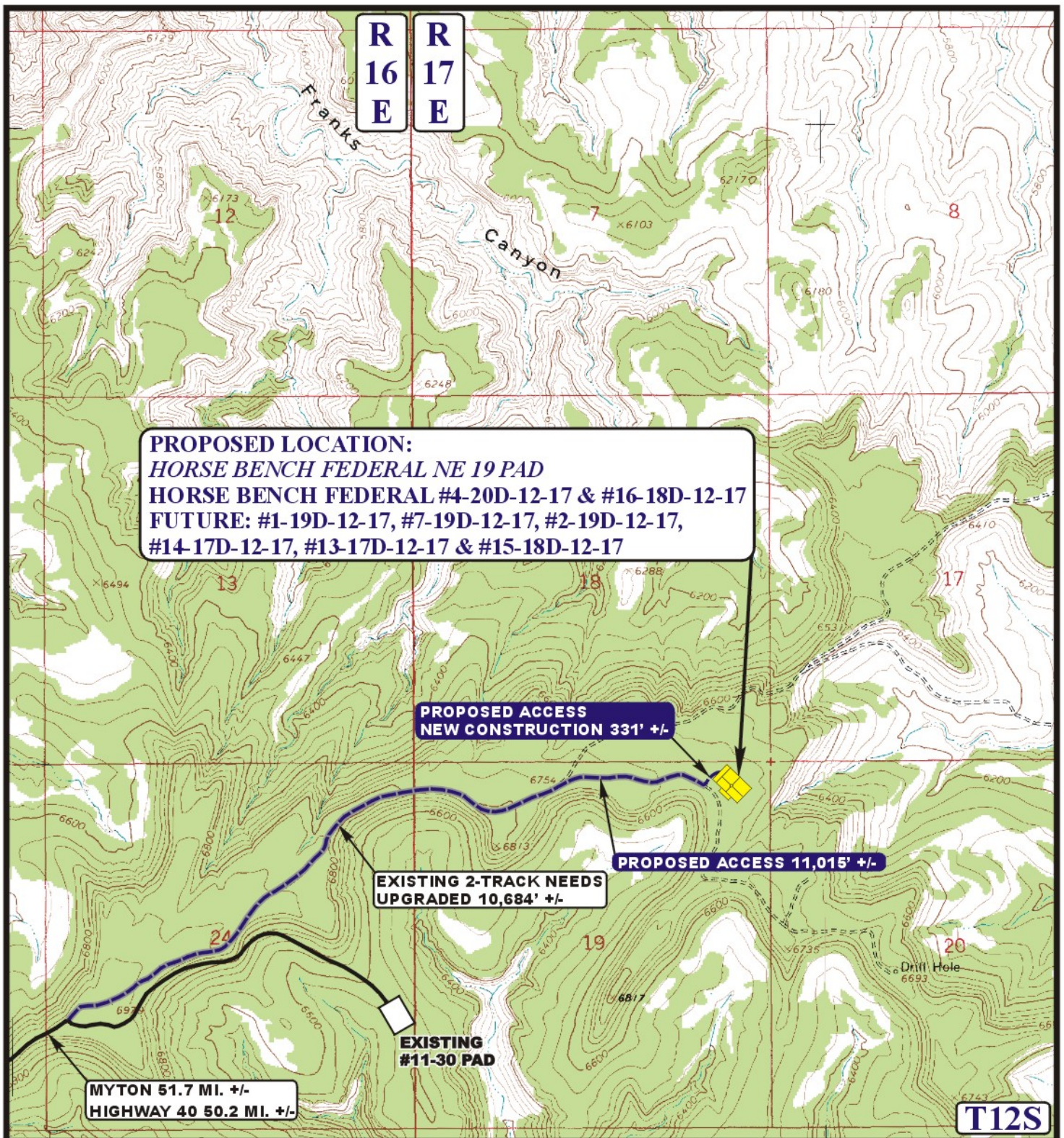
HORSE BENCH FEDERAL NE 19 PAD
HORSE BENCH FEDERAL #4-20D-12-17 & #16-18D-12-17
FUTURE: #1-19D-12-17, #7-19D-12-17,
#2-19D-12-17, #14-17D-12-17, #13-17D-12-17 & #15-18D-12-17
SECTION 19, T12S, R17E, S.L.B.&M.
NE 1/4 NE 1/4

N

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

ACCESS ROAD MAP	09 MONTH	19 DAY	12 YEAR	A TOPO
SCALE: 1:100,000	DRAWN BY: C.I.	REVISED: 09-24-12		

API Well Number: 43007503510000



LEGEND:

EXISTING ROAD
PROPOSED ACCESS ROAD
EXISTING 2-TRACK NEEDS UPGRADED

N

BILL BARRETT CORPORATION

HORSE BENCH FEDERAL NE 19 PAD
HORSE BENCH FEDERAL #4-20D-12-17 & #16-18D-12-17
FUTURE: #1-19D-12-17, #7-19D-12-17,
#2-19D-12-17, #14-17D-12-17, #13-17D-12-17 & #15-18D-12-17
SECTION 19, T12S, R17E, S.L.B.&M.
NE 1/4 NE 1/4

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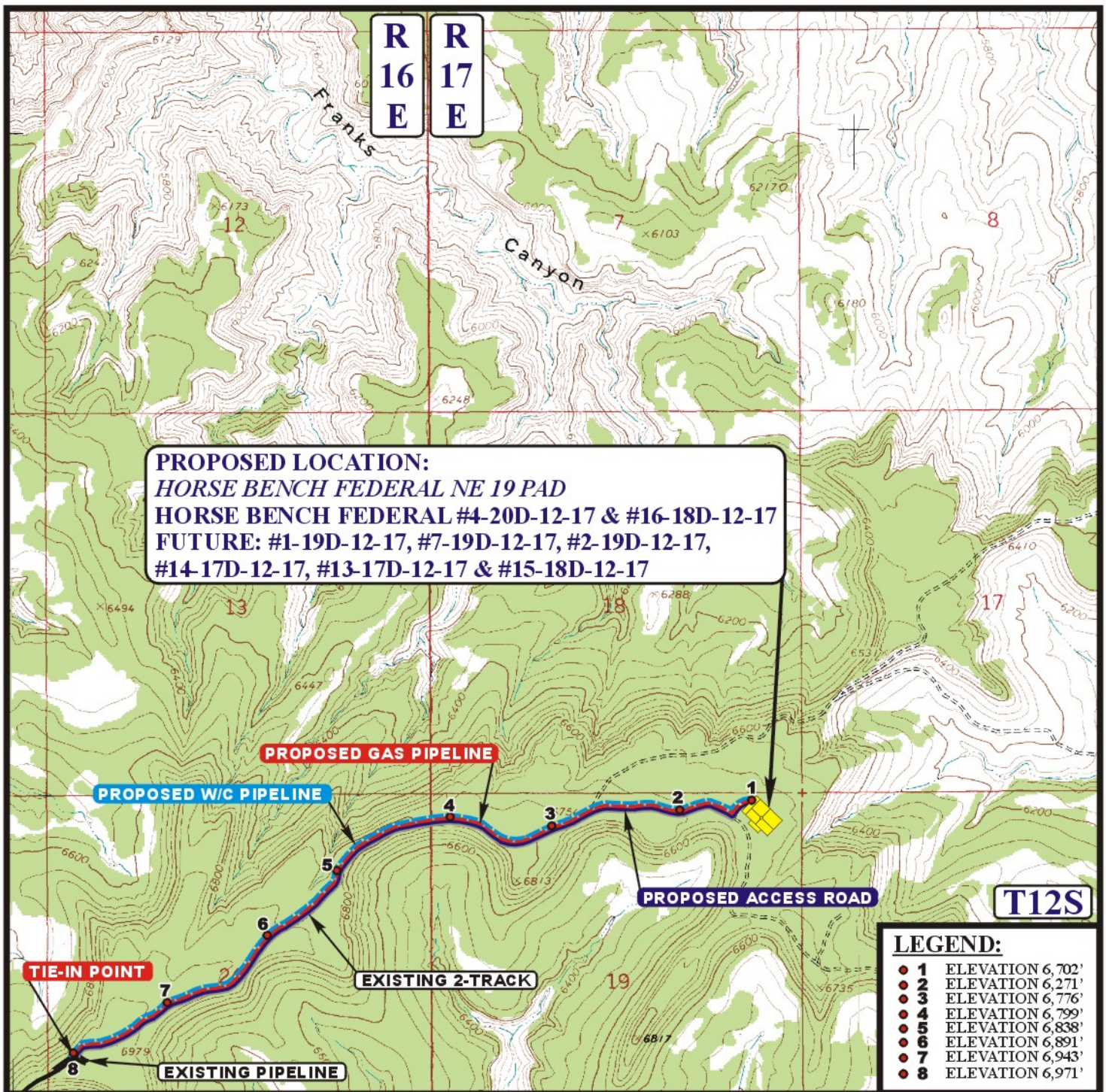
ACCESS ROAD MAP	09 MONTH	19 DAY	12 YEAR	B TOPO
SCALE: 1" = 2000'	DRAWN BY: C.I.	REVISED: 09-24-12		

API Well Number: 43007503510000



APPROXIMATE TOTAL W/C PIPELINE DISTANCE = 11,039' +/-

APPROXIMATE TOTAL GAS PIPELINE DISTANCE = 11,039' +/-

LEGEND:

- PROPOSED ACCESS ROAD
- EXISTING PIPELINE
- PROPOSED GAS PIPELINE
- PROPOSED W/C PIPELINE
- EXISTING 2-TRACK

N

BILL BARRETT CORPORATION

HORSE BENCH FEDERAL NE 19 PAD
HORSE BENCH FEDERAL #4-20D-12-17 & #16-18D-12-17
FUTURE: #1-19D-12-17, #7-19D-12-17,
#2-19D-12-17, #14-17D-12-17, #13-17D-12-17 & #15-18D-12-17
SECTION 19, T12S, R17E, S.L.B.&M.
NE 1/4 NE 1/4

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TOPOGRAPHIC MAP	09 MONTH	19 DAY	12 YEAR	C TOPO
SCALE: 1" = 2000'	DRAWN BY: C.I.	REVISED: 09-24-12		

BILL BARRETT CORP

CARBON COUNTY, UT (NAD 27)
Horse Bench NE 19 Pad
Horse Bench #16-18D-12-17

Wellbore #1

Plan: Design #1

Standard Planning Report

28 September, 2012

RECEIVED: September 28, 2012

Bill Barrett Corp

Planning Report

Database:	Compass	**Local Co-ordinate Reference:**	Well Horse Bench #16-18D-12-17
Company:	BILL BARRETT CORP	**TVD Reference:**	KB @ 6725.0ft (Original Well Elev)
Project:	CARBON COUNTY, UT (NAD 27)	**MD Reference:**	KB @ 6725.0ft (Original Well Elev)
Site:	Horse Bench NE 19 Pad	**North Reference:**	True
Well:	Horse Bench #16-18D-12-17	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project CARBON COUNTY, UT (NAD 27)

Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Ground Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Utah Central 4302		Using geodetic scale factor

Site Horse Bench NE 19 Pad

Site Position:		**Northing:**	524,992.00 ft	**Latitude:**	39° 45' 56.200 N
From:	Lat/Long	**Easting:**	2,408,551.30 ft	**Longitude:**	110° 2' 47.479 W
Position Uncertainty:	0.0 ft	**Slot Radius:**	"	**Grid Convergence:**	0.93 °

Well Horse Bench #16-18D-12-17

Well Position	**+N/-S**	7.3 ft	**Northing:**	524,999.39 ft	**Latitude:**	39° 45' 56.271 N
	+E/-W	7.0 ft	**Easting:**	2,408,558.21 ft	**Longitude:**	110° 2' 47.389 W
Position Uncertainty		0.0 ft	**Wellhead Elevation:**	ft	**Ground Level:**	6,705.0 ft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	9/28/2012	11.10	65.54	51,982

Design Design #1

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	356.44

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,173.1	17.60	356.44	2,154.7	178.4	-11.1	1.50	1.50	0.00	356.44	
4,229.9	17.60	356.44	4,115.3	799.0	-49.6	0.00	0.00	0.00	0.00	
5,402.9	0.00	0.00	5,270.0	977.3	-60.7	1.50	-1.50	0.00	180.00	
7,682.9	0.00	0.00	7,550.0	977.3	-60.7	0.00	0.00	0.00	0.00	#16-18D-12-17

RECEIVED: September 28, 2012

Bill Barrett Corp

Planning Report

Database:	Compass	**Local Co-ordinate Reference:**	Well Horse Bench #16-18D-12-17
Company:	BILL BARRETT CORP	**TVD Reference:**	KB @ 6725.0ft (Original Well Elev)
Project:	CARBON COUNTY, UT (NAD 27)	**MD Reference:**	KB @ 6725.0ft (Original Well Elev)
Site:	Horse Bench NE 19 Pad	**North Reference:**	True
Well:	Horse Bench #16-18D-12-17	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	1.50	356.44	1,100.0	1.3	-0.1	1.3	1.50	1.50	0.00
1,200.0	3.00	356.44	1,199.9	5.2	-0.3	5.2	1.50	1.50	0.00
1,300.0	4.50	356.44	1,299.7	11.8	-0.7	11.8	1.50	1.50	0.00
1,400.0	6.00	356.44	1,399.3	20.9	-1.3	20.9	1.50	1.50	0.00
1,500.0	7.50	356.44	1,498.6	32.6	-2.0	32.7	1.50	1.50	0.00
1,600.0	9.00	356.44	1,597.5	46.9	-2.9	47.0	1.50	1.50	0.00
1,700.0	10.50	356.44	1,696.1	63.8	-4.0	64.0	1.50	1.50	0.00
1,800.0	12.00	356.44	1,794.2	83.3	-5.2	83.5	1.50	1.50	0.00
1,900.0	13.50	356.44	1,891.7	105.3	-6.5	105.5	1.50	1.50	0.00
2,000.0	15.00	356.44	1,988.6	129.9	-8.1	130.2	1.50	1.50	0.00
2,100.0	16.50	356.44	2,084.9	157.0	-9.8	157.3	1.50	1.50	0.00
2,173.1	17.60	356.44	2,154.7	178.4	-11.1	178.7	1.50	1.50	0.00
2,200.0	17.60	356.44	2,180.4	186.5	-11.6	186.9	0.00	0.00	0.00
2,300.0	17.60	356.44	2,275.7	216.7	-13.5	217.1	0.00	0.00	0.00
2,400.0	17.60	356.44	2,371.0	246.8	-15.3	247.3	0.00	0.00	0.00
2,500.0	17.60	356.44	2,466.4	277.0	-17.2	277.6	0.00	0.00	0.00
2,600.0	17.60	356.44	2,561.7	307.2	-19.1	307.8	0.00	0.00	0.00
2,700.0	17.60	356.44	2,657.0	337.4	-21.0	338.0	0.00	0.00	0.00
2,800.0	17.60	356.44	2,752.3	367.5	-22.8	368.2	0.00	0.00	0.00
2,900.0	17.60	356.44	2,847.6	397.7	-24.7	398.5	0.00	0.00	0.00
3,000.0	17.60	356.44	2,943.0	427.9	-26.6	428.7	0.00	0.00	0.00
3,100.0	17.60	356.44	3,038.3	458.1	-28.5	458.9	0.00	0.00	0.00
3,200.0	17.60	356.44	3,133.6	488.2	-30.3	489.2	0.00	0.00	0.00
3,300.0	17.60	356.44	3,228.9	518.4	-32.2	519.4	0.00	0.00	0.00
3,400.0	17.60	356.44	3,324.2	548.6	-34.1	549.6	0.00	0.00	0.00
3,416.5	17.60	356.44	3,340.0	553.6	-34.4	554.6	0.00	0.00	0.00
Wasatch									
3,500.0	17.60	356.44	3,419.6	578.7	-36.0	579.9	0.00	0.00	0.00
3,600.0	17.60	356.44	3,514.9	608.9	-37.8	610.1	0.00	0.00	0.00
3,700.0	17.60	356.44	3,610.2	639.1	-39.7	640.3	0.00	0.00	0.00
3,800.0	17.60	356.44	3,705.5	669.3	-41.6	670.5	0.00	0.00	0.00
3,900.0	17.60	356.44	3,800.8	699.4	-43.5	700.8	0.00	0.00	0.00
4,000.0	17.60	356.44	3,896.2	729.6	-45.3	731.0	0.00	0.00	0.00
4,100.0	17.60	356.44	3,991.5	759.8	-47.2	761.2	0.00	0.00	0.00
4,200.0	17.60	356.44	4,086.8	789.9	-49.1	791.5	0.00	0.00	0.00
4,229.9	17.60	356.44	4,115.3	799.0	-49.6	800.5	0.00	0.00	0.00
4,300.0	16.54	356.44	4,182.3	819.5	-50.9	821.1	1.50	-1.50	0.00
4,400.0	15.04	356.44	4,278.5	846.7	-52.6	848.3	1.50	-1.50	0.00
4,500.0	13.54	356.44	4,375.4	871.3	-54.1	873.0	1.50	-1.50	0.00
4,600.0	12.04	356.44	4,473.0	893.4	-55.5	895.1	1.50	-1.50	0.00
4,700.0	10.54	356.44	4,571.0	913.0	-56.7	914.7	1.50	-1.50	0.00
4,800.0	9.04	356.44	4,669.6	929.9	-57.8	931.7	1.50	-1.50	0.00
4,900.0	7.54	356.44	4,768.5	944.3	-58.7	946.2	1.50	-1.50	0.00

RECEIVED: September 28, 2012

Bill Barrett Corp

Planning Report

Database:	Compass	**Local Co-ordinate Reference:**	Well Horse Bench #16-18D-12-17
Company:	BILL BARRETT CORP	**TVD Reference:**	KB @ 6725.0ft (Original Well Elev)
Project:	CARBON COUNTY, UT (NAD 27)	**MD Reference:**	KB @ 6725.0ft (Original Well Elev)
Site:	Horse Bench NE 19 Pad	**North Reference:**	True
Well:	Horse Bench #16-18D-12-17	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,000.0	6.04	356.44	4,867.8	956.1	-59.4	958.0	1.50	-1.50	0.00
5,100.0	4.54	356.44	4,967.4	965.3	-60.0	967.2	1.50	-1.50	0.00
5,200.0	3.04	356.44	5,067.2	972.0	-60.4	973.8	1.50	-1.50	0.00
5,300.0	1.54	356.44	5,167.1	975.9	-60.6	977.8	1.50	-1.50	0.00
5,400.0	0.04	356.44	5,267.1	977.3	-60.7	979.2	1.50	-1.50	0.00
5,402.9	0.00	0.00	5,270.0	977.3	-60.7	979.2	1.50	-1.50	0.00
North Horn									
5,500.0	0.00	0.00	5,367.1	977.3	-60.7	979.2	0.00	0.00	0.00
5,600.0	0.00	0.00	5,467.1	977.3	-60.7	979.2	0.00	0.00	0.00
5,700.0	0.00	0.00	5,567.1	977.3	-60.7	979.2	0.00	0.00	0.00
5,800.0	0.00	0.00	5,667.1	977.3	-60.7	979.2	0.00	0.00	0.00
5,900.0	0.00	0.00	5,767.1	977.3	-60.7	979.2	0.00	0.00	0.00
6,000.0	0.00	0.00	5,867.1	977.3	-60.7	979.2	0.00	0.00	0.00
6,100.0	0.00	0.00	5,967.1	977.3	-60.7	979.2	0.00	0.00	0.00
6,200.0	0.00	0.00	6,067.1	977.3	-60.7	979.2	0.00	0.00	0.00
6,300.0	0.00	0.00	6,167.1	977.3	-60.7	979.2	0.00	0.00	0.00
6,400.0	0.00	0.00	6,267.1	977.3	-60.7	979.2	0.00	0.00	0.00
6,500.0	0.00	0.00	6,367.1	977.3	-60.7	979.2	0.00	0.00	0.00
6,600.0	0.00	0.00	6,467.1	977.3	-60.7	979.2	0.00	0.00	0.00
6,700.0	0.00	0.00	6,567.1	977.3	-60.7	979.2	0.00	0.00	0.00
6,800.0	0.00	0.00	6,667.1	977.3	-60.7	979.2	0.00	0.00	0.00
6,832.9	0.00	0.00	6,700.0	977.3	-60.7	979.2	0.00	0.00	0.00
Dark Canyon									
6,900.0	0.00	0.00	6,767.1	977.3	-60.7	979.2	0.00	0.00	0.00
7,000.0	0.00	0.00	6,867.1	977.3	-60.7	979.2	0.00	0.00	0.00
7,100.0	0.00	0.00	6,967.1	977.3	-60.7	979.2	0.00	0.00	0.00
7,182.9	0.00	0.00	7,050.0	977.3	-60.7	979.2	0.00	0.00	0.00
Price River									
7,200.0	0.00	0.00	7,067.1	977.3	-60.7	979.2	0.00	0.00	0.00
7,300.0	0.00	0.00	7,167.1	977.3	-60.7	979.2	0.00	0.00	0.00
7,400.0	0.00	0.00	7,267.1	977.3	-60.7	979.2	0.00	0.00	0.00
7,500.0	0.00	0.00	7,367.1	977.3	-60.7	979.2	0.00	0.00	0.00
7,600.0	0.00	0.00	7,467.1	977.3	-60.7	979.2	0.00	0.00	0.00
7,682.9	0.00	0.00	7,550.0	977.3	-60.7	979.2	0.00	0.00	0.00
TD - #16-18D-12-17									

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,416.5	3,340.0	Wasatch		0.00	
5,402.9	5,270.0	North Horn		0.00	
6,832.9	6,700.0	Dark Canyon		0.00	
7,182.9	7,050.0	Price River		0.00	
7,682.9	7,550.0	TD		0.00	

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API Well Number: 43007503510000

Bill Barrett Corporation

COMPANY DETAILS: BILL BARRETT CORP

Calculation Method: Minimum Curvature
Error System: ISCWSA
Scan Method: Closest Approach 3D
Error Surface: Elliptical Conic
Warning Method: Error Ratio

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Horse Bench #16-18D-12-17, True North
Vertical (TVD) Reference: KB @ 6725.0ft (Original Well Elev)
Section (VS) Reference: Slot - (0.0N, 0.0E)
Measured Depth Reference: KB @ 6725.0ft (Original Well Elev)
Calculation Method: Minimum Curvature

WELL DETAILS: Horse Bench #16-18D-12-17

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	524999.39	2408558.21	39° 45' 56.271 N	110° 2' 47.389 W

PROJECT DETAILS: CARBON COUNTY, UT (NAD 27)

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: Utah Central 4302

SECTION DETAILS

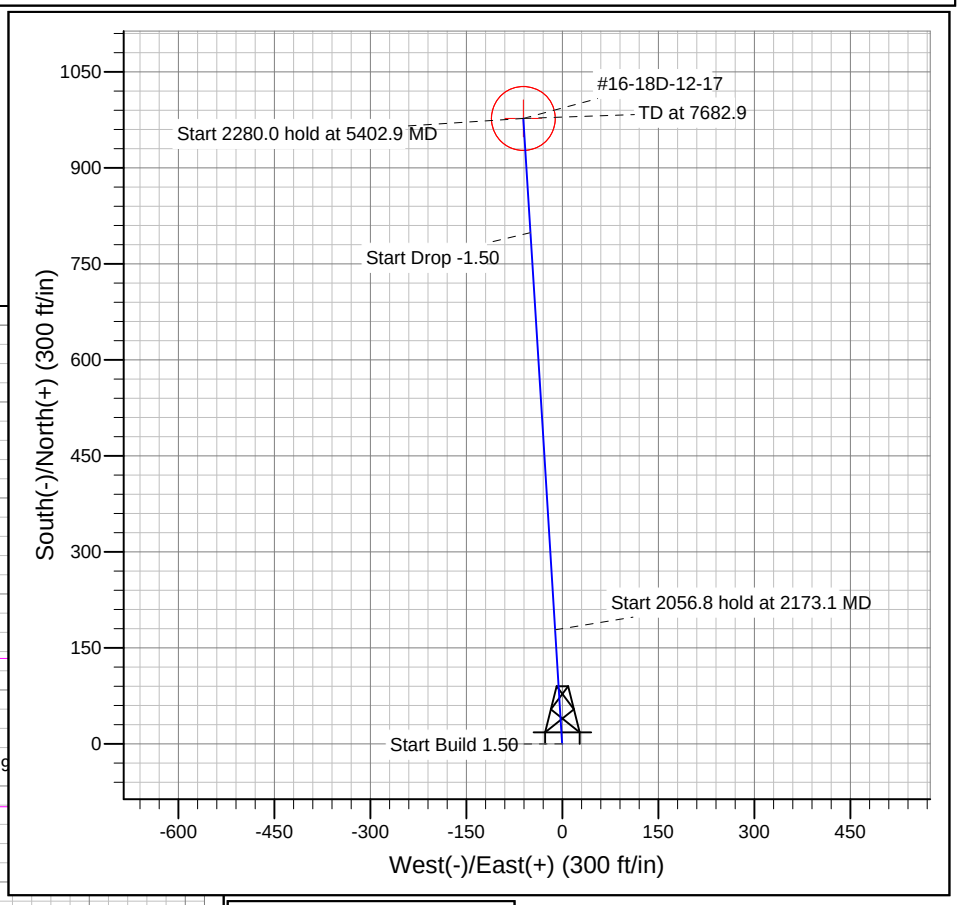
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1000.0	0.00	0.00	1000.0	0.0	0.0	0.00	0.00	0.0	
3	2173.1	17.60	356.44	2154.7	178.4	-11.1	1.50	356.44	178.7	
4	4229.9	17.60	356.44	4115.3	799.0	-49.6	0.00	0.00	800.5	
5	5402.9	0.00	0.00	5270.0	977.3	-60.7	1.50	180.00	979.2	
6	7682.9	0.00	0.00	7550.0	977.3	-60.7	0.00	0.00	979.2	#16-18D-12-17

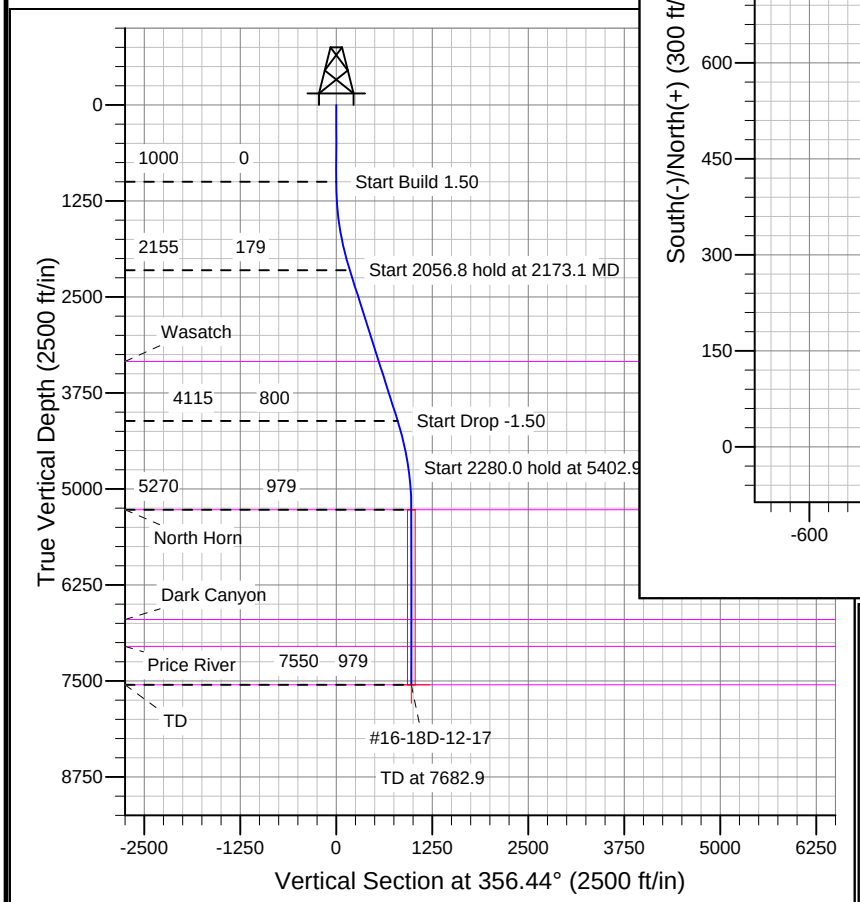
WELLBORE TARGET DETAILS (LAT/LONG)

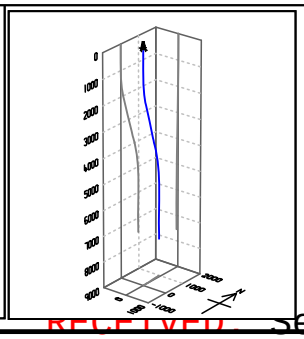
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
#16-18D-12-17	7550.0	977.3	-60.7	39° 46' 5.930 N	110° 2' 48.167 W	Circle (Radius: 50.0)

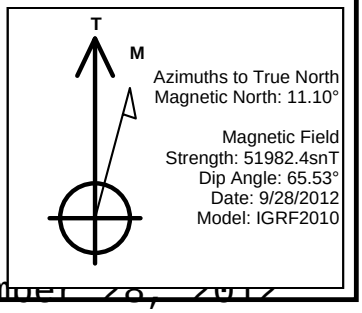
FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3340.0	3416.5	Wasatch
5270.0	5402.9	North Horn
6700.0	6832.9	Dark Canyon
7050.0	7182.9	Price River
7550.0	7682.9	TD









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SURFACE USE PLAN

BILL BARRETT CORPORATION
Horsebench 19 Pad
Carbon County, UT

Horse Bench Federal 4-20D-12-17	**Horse Bench Federal 16-18D-12-17**
NENE, 347' FNL, 550' FEL, Sec. 19, T12S-R17E (surface hole)	NENE, 340' FNL, 543' FEL, Sec. 19, T12S-R17E (surface hole)
NWNW, 668' FNL, 691' FWL, Sec. 20, T12S-R17E (bottom hole)	SESE, 637' FSL, 607' FEL, Sec. 18, T12S-R17E (bottom hole)

The onsite for this project has not yet been scheduled. This is a new pad with a total of eight directional wells (two to be drilled in Phase 1, six future wells). An off-lease right-of-way is requested for the off-unit portions of the access road, gas pipeline corridor, liquids pipeline corridor.

The excavation contractor would be provided with an approved copy of the surface use plan of operations before initiating construction.

1. Existing Roads:

   a. The proposed pad is located approximately 53.8 miles from Myton, Utah. Maps reflecting directions to the proposed pad are included (see Topographic maps A and B).

   b. The use of roads under State and County Road Department maintenance is necessary to access the the proposed location. However, an encroachment permit is not anticipated as there are no upgrades to the State or County road systems proposed at this time.

   c. No topsoil stripping would occur as there are no improvements proposed to existing State, County or main BLM access roads.

   d. Project roads would require routine year-round maintenance to provide year-round access. Maintenance would include inspections, reduction of ruts and holes, maintenance to keep water off the road, replacement of surfacing materials, and clearing of sediment blocking ditches and culverts. Should snow removal become necessary, roads would be cleared with a scraper and snow would be stored along the down gradient side to prohibit runoff onto the road. Aggregate would be used as necessary to maintain a solid running surface and minimize dust generation.

   e. Vehicle operators would obey posted speed restrictions and observe safe speeds commensurate with road and weather conditions. Travel would be limited to the existing access roads and proposed access road.

   f. To address safety-related traffic concerns, drivers and rig crews would be advised of the hazards to recreational traffic along the existing and proposed access roads, as well as hazards present due to blind corners, cars parked on the road, pedestrian traffic, and mountain bikers. In addition, appropriate signs would be erected to warn non-project personnel about traffic hazards associated with project-related activities and during times of rig moves, when there is heavy equipment, traffic may be controlled on sections of roads. Traffic would be controlled using roadside signs, flagmen, and barricades as appropriate.

   g. Dust suppression and monitoring would be implemented where necessary and as prescribed by the BLM.

2. Planned Access Road:

   a. From the existing Peters Point 11-30 access road, approximately 11,015 ft of access is proposed. Of the proposed access road, 10,684 ft is an existing two track road that will require upgrade and 331 ft of new access road is proposed (see Topographic Map B).

   b. All 11,015 ft of proposed access road is off-unit and **requires a federal off-lease right-of-way that is being requested with this application.**

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c. The proposed access road would be co-located by pipeline(s) and the requested corridor disturbance would be 100 ft with a short-term corridor disturbance of 80 ft reclaimed to a long-term corridor of 30 ft.

d. The proposed road would be constructed to facilitate drainage, control erosion and minimize visual impacts by following natural contours where practical. No unnecessary side-casting of material would occur on steep slopes.

e. Intervisible turnouts would be constructed, where necessary and as topographic conditions allow, to improve traffic safety. A maximum grade of 10 percent would be maintained with minimum cuts and fills, as necessary, to access the well pad.

f. New road construction and improvements of existing roads would typically require the use of motorgraders, crawler tractors, 10-yard end dump trucks, and water trucks. The standard methodology for building new roads involves the use of a crawler tractor or track hoe to windrow the vegetation to one side of the road corridor, remove topsoil to the opposing side of the corridor, and rough-in the roadway. This is followed by a grader or bulldozer to establish barrow ditches and crown the road surface. Where culverts are required, a track hoe or backhoe would trench the road and install the culverts. Some hand labor would be required when installing and armoring culverts. Road base or gravel in some instances would be necessary and would be hauled in and a grader used to smooth the running surface.

g. Excess rock from construction of the pad may be used for surfacing of the access road if necessary. Any additional aggregate necessary would be obtained from private, State of Utah, or federal lands in conformance with applicable regulations. Aggregate would be of sufficient size, type, and amount to allow all weather access and alleviate dust.

h. Where topsoil removal is necessary, it would be windrowed (i.e. stockpiled/accumulated along the edge of the ROW and in a low row/pile parallel with the ROW) and re-spread over the disturbed area after construction and backfilling are completed. Vegetation removed from the disturbed area would also be re-spread to provide protection, nutrient recycling, and a seed source for reclamation.

i. Adequate drainage structures would be incorporated and culverts, with a minimum diameter of 18 inches, would be installed as necessary. Turnouts would also be incorporated where necessary.

j. No gates or cattle guards are anticipated at this time.

k. Surface disturbance and vehicular travel would be limited to the approved location access road. Adequate signs would be posted, as necessary, to warn the public of project related traffic.

l. All access roads and surface disturbing activities would conform to the appropriate standard, no higher than necessary, to accommodate their intended function adequately as outlined in the Bureau of Land Management and Forest Service publication: Surface Operating Standards for Oil and Gas Exploration and Development, Fourth Edition – Revised 2007. BBC would be responsible for all maintenance of the access road.

3. Location of Existing Wells (see One-Mile Radius Map):

a. Following is a list of wells with surface hole locations within a one-mile radius of the proposed pad:

i.	water wells	none
ii.	injection wells	none
iii.	disposal wells	none
iv.	drilling wells	none
v.	temp shut-in wells	none
vi.	producing wells	none
vii.	abandoned wells	one

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4. Location of Production Facilities:

a. Each proposed well would have its own meter run and separator. Proposed wellheads and christmas trees **may be** contained below location grade in pre-cast concrete trenches. All wellheads associated with the drilling operations for this pad may be contained in the same trench measuring approximately 26 ft wide, 10 ft deep, and 56 ft long (# wells x 8 ft + 16 ft for two end pieces). Drawings of below ground cellars can be provided by BBC upon request.

b. Tank facilities for this pad would be a centralized tank battery facility (CTB) that is co-located on this pad and liquids would be pumped through the Peters Point 6-34D CTB located in the SENW, Sec. 34, 12S-16E. Surface facilities for wells associated with this pad and future pads to the east would consist of up to Two 4-pack separators with two 750 BTU burners in each separator, up to ten low profile 300-bbl production tanks, one 300-bbl low profile blow down tank, one 750 BTU line heater, multiple chemical tanks, two glycol solar pumps, multiple chemical solar pumps , 500gl methanol tank and multiple solar pumps, 48" combustor, up to eight 500 BTU tank heaters and possible gas lift compressor. Figure 4 reflects facility plans and is attached.

c. CTBs would be surrounded by a secondary containment berm of sufficient capacity to contain the 1.1 times the entire capacity of the largest single tank and sufficient freeboard to contain precipitation. All loading lines and valves would be placed inside the berm surrounding the CTB or would utilize catchment basins to contain spills. All liquid hydrocarbon production and measurement shall conform to the provisions of 43 CFR 3162.7-2 and Onshore Oil and Gas Order No. 4 for the measurement of oil. Any variances from this would be submitted via a sundry notice. BBC requests permission to install the necessary production/operation facilities with this application.

d. Most wells would be fitted with plunger lift systems to assist liquid production. However, pump jacks may be used if liquid volumes and/or low formation pressures require it. Plunger lift systems do not require any outside source of energy. The prime mover for pump jacks would be small (75 horsepower or less), natural gas-fired internal combustion engines.

e. Gas meter run(s) would be constructed and located on lease within 500 feet of the wellheads. Meter runs would be housed and/or fenced. As practicably feasible, meters would be equipped with remote telemetry monitoring systems. All gas production and measurement shall comply with the provisions of 43 CFR 3162.7-3, Onshore Oil and Gas Order No. 5, and American Gas Association (AGA) Report No. 3 and any variances would be included with this submittal or submitted via sundry notice.

f. A combustor may be installed at this location for control of associated condensate tank emissions. A combustor ranges from 24 inches to 48 inches wide and is approximately 10 ft tall. Combustor placement would be on existing disturbance and would not be closer than 100 ft to any tank or wellhead(s

g. Approximately 11,039 ft of two buried gas gathering pipelines (one 16- inch diameter and one 8-inch steel gas lines) and one buried 4-inch flexpipe water line will run from the proposed pad and tie into the Peters Point 11-30 pipeline. The three pipelines associated with this application would require a federal off-lease right-of-way that is being requested with this application. All lines would leave the northwest end of the pad and traverse southwest into Section 18, 12S-17E and tie into the existing pipelines for the Peters Point 11-30 pad (see Topographic Map C)

h. The proposed gas pipeline would be constructed of steel while the liquids lines would be constructed of steel, polyethylene, or fiberglass. The gas pipeline and liquids line would be buried, where soil conditions permit, within the proposed co-located access road and pipeline corridor.

i. Although BBC intends on burying the new proposed pipelines, burial of pipelines would depend upon the site-specific topographic and soil conditions and operational requirements. If bedrock was encountered, BBC would contact the Authorized Officer at the time of construction to discuss further.

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j. BBC intends on stringing the pipeline on the surface, welding many joints into long lengths, dragging the long lengths into position and then completing a final welding pass to join the long lengths together. The welded joints would either remain on the surface or would be placed within the trench, depending on the scenario. BBC intends on connecting the pipeline together utilizing conventional welding technology.

k. Pipeline construction methods and practices would be planned and conducted by BBC with the objective of enhancing reclamation and fostering the re-establishment of the native plant community.

l. To limit erosion potential, backfill over pipeline trenches would be compacted so as not to extend above the original ground level after the fill has settled. Wheel or other methods of compacting backfill would be utilized as practicably feasible to reduce trench settling and water channeling.

m. All **permanent** above-ground structures would be painted a flat, non-reflective Olive Black to match the standard environmental colors. These structures would be painted the designated color at the time of installation or within 6 months of being located on site. Facilities that are required to comply with the Occupational Safety and Health Act (OSHA) may be excluded.

n. Site security guidelines identified in 43 CFR 3162.7-5 and Onshore Oil and Gas Order No. 3 would be adhered to. Any changes to facilities proposed within this surface use plan would be depicted on the site security diagram submitted.

o. The site would require periodic maintenance to ensure that drainages are kept open and free of debris, and that surfaces are properly treated to reduce erosion, fugitive dust, and impacts to adjacent areas.

5. Location and Type of Water Supply:

a. Bill Barrett Corporation would use water consistent with approvals granted by the Utah State Engineer's Office under:
Application Number 90-1875, expires May 24, 2013
Application Number 90-1876, expires May 24, 2013
Application Number 90-1879, expires October 11, 2012 (currently in renewal process)
Application Number 90-4, expires December 31, 2015
Application Number 90-5, expires January 31, 2018
Application Number 90-1874, expires January 5, 2013
Application Number 90-1866, expires December 31, 2020

b. Water use for this location would most likely be diverted from Nine Mile Creek, the S¼ of Section 8, T12S-R16E or from a water well located in the N¼ of State Section 32-T12S-R16E. For either of these sources, bobtail trucks would haul the water, traveling Cottonwood Canyon dugway to Peter's Point road.

c. Water use would vary in accordance with the formations to be drilled but would average approximately 1 acre-foot (7,758 barrels) during drilling operations and 1 acre-foot (7,758 barrels) during completion operations.

6. Source of Construction Material:

a. The use of materials would conform to 43 CFR 3610.2-3.

b. No construction materials would be taken past the Peter's Point Unit.

c. If any additional gravel is required, it would be obtained from SITLA materials permits, federal BBC locations within the Peter's Point unit or from private sources.

7. Methods of Handling Waste Disposal:

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a. All wastes associated with this application would be contained and disposed of utilizing approved facilities.

Closed Loop Drilling System

b. BBC intends to employ a closed loop drilling system in which drilling fluids and cuttings would be thoroughly processed such that the separated cuttings are relatively dry. The cuttings would be stored on location in either secured piles or in a 190 ft x 60 ft cuttings trench (indicated as reserve pit on Figure 1 located outboard of the location along the south side of the pad).

c. The cuttings trench would not be lined. Three sides of the trench would be fenced before drilling starts and the fourth side would be fenced at the time drilling is completed on the last well on the pad and shall remain until cuttings trench has been reclaimed.

d. Upon completion of drilling, the cuttings would be tested and further processed as necessary to meet standards for burial on site or other BLM approved uses such as a media for road surfacing or growing media for reclamation.

Conventional or Semi-Closed Loop Drilling System

e. In the event closed loop drilling is not employed, a conventional or semi-closed loop system would be used where a small amount of fluid is retained in the cuttings and the cuttings are placed in the reserve pit. The reserve pit would also store water to make up losses and store any excess drilling fluids. Reserve pits would be constructed with an impermeable liner so as to prevent releases. The pit liner would overlap the pit walls and be anchored with soil and/or rocks to hold it in place. No trash, scrap pipe, etc. that could puncture the liner would be disposed of in the pit and a minimum of 2 ft of freeboard would be maintained in the pit at all times. Reserve pits would be constructed and maintained according to BLM or UDOGM requirements as appropriate.

f. Three sides of the reserve pit would be fenced before drilling starts and the fourth side would be fenced at the time drilling is completed on the last well on the pad and shall remain until the pit is dry.

g. Any hydrocarbons floating on the surface of the reserve pit would be removed as soon as possible after drilling and completion operations are finished. In some cases, the reserve pit may be flagged overhead or covered with wire or plastic mesh to protect migrating birds.

Completion Pit

h. Where closed loop drilling is employed, the cuttings trench disturbed area would typically also be used to store water for completion activities. The completion pit would be constructed with an impermeable liner to prevent releases and would be fenced and constructed and maintained according to BLM or UDOGM requirements.

Other

i. Produced fluids from the wells other than water would be decanted into steel test tanks until such time as construction of production facilities is completed. Produced water may be used in further drilling and completion activities, evaporated in the pit or would be hauled to a state approved disposal facility.

j. After initial clean-up and based on volumes, BBC would install a tank (maximum size 400 barrel capacity) to contain produced waste water. After first production, produced wastewater would be confined to tanks within the CTB for a period not to exceed ninety (90) days. Thereafter, produced water would be used in further drilling and completion activities or hauled to a State approved disposal facility.

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k. Any salts and/or chemicals, which are an integral part of the drilling system, would be disposed of in the same manner as the drilling fluid.

l. Any spills of oil, condensate, produced or frac water, drilling fluids, or other potentially deleterious substances would be recovered and either returned to its origin or disposed of at an approved disposal site, most likely in Duchesne, Utah.

m. Chemicals on the EPA's Consolidated List of Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) may be used or stored in quantities over reportable quantities. In the course of drilling, BBC could potentially store and use diesel fuel, sand (silica), hydrochloric acid, and CO_2 gas, all described as hazardous substances in 40 CFR Part 302, Section 302.4, in quantities exceeding 10,000 pounds. In addition, natural gas condensate and crude oil and methanol may be stored or used in reportable quantities. Small quantities of retail products (paint/spray paints, solvents {e.g., WD-40}, and lubrication oil) containing non-reportable volumes of hazardous substances may be stored and used on site at any time. No extremely hazardous substances, as defined in 40 CFR 355, would be used, produced, stored, transported or disposed of in association with the drilling, testing or completion of the wells.

n. Portable toilets and trash containers would be located onsite during drilling and completion operations. A commercial supplier would install and maintain portable toilets and equipment and would be responsible for removing sanitary waste. Sanitary waste facilities (i.e. toilet holding tanks) would be regularly pumped and their contents disposed of at approved sewage disposal facilities in Carbon, Duchesne, and/or Uintah Counties, in accordance with applicable rules and regulations regarding sewage treatment and disposal. Accumulated trash and nonflammable waste materials would be hauled to an approved landfill once a week or as often as necessary. All debris and waste materials not contained in the trash containers would be cleaned up, removed from the construction ROW, well pad, or worker housing location, and disposed of at an approved landfill. Trash would be cleaned up everyday.

o. Sanitary waste equipment and trash bins would be removed from the Horse Bench/WTP Project Area upon completion of access road or pipeline construction; following drilling and completion operations at an individual well pad; when worker housing is no longer needed; or as required.

p. A flare pit may be constructed a minimum of 110' from the wellhead(s) and may be used during completion work. In the event a flare pit proves to be unworkable, a temporary flare stack or open top tank would be installed. BBC would flow back as much fluid and gas as possible into pressurized vessels, separating the fluids from the gas. In some instances, due to the completion fluids utilized within the West Tavaputs Project area, it is not feasible to direct the flow stream from the wellbore through pressurized vessels. In such instances BBC proposes to direct the flow to the open top tanks until flow through the pressurized vessels is possible. At which point the fluid would either be returned to the reserve pit or placed into a tank(s). The gas would be directed to the flare pit, flare stack (each with a constant source of ignition), or may be directed into the sales pipeline.

q. Flare lines would be directed so as to avoid damage to surrounding vegetation, adjacent rock faces, or other resources, and as required by regulations. Flare lines would be in place on all well locations. In the event it becomes necessary to flare a well, a deflector and/or directional orifice would also be used to safeguard both personnel and adjacent natural rock faces.

8. <u>Ancillary Facilities:</u>

a. Garbage containers and portable toilets would be located on the well pad.

b. BLM approved and permitted storage yards for tubulars and other equipment and temporary housing areas would be utilized.

c. On well pads where active drilling and completion is occurring, temporary housing would be provided on location for the well pad supervisor, geologist, tool pusher, and others that are required

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to be on location at all times. Active drilling locations could include up to five single wide mobile homes or fifth wheel campers/trailers.

9. Well Site Layout:

a. Each well would be properly identified in accordance with 43 CFR 3162.6

b. The pad has been staked at its maximum size of 490 ft x 305 ft with a 190 ft x 60 ft (6.196 acres) cuttings trench/reserve pit/completion pit outboard of the pad. The location layout and cross section diagrams are enclosed.

c. Within the approved well pad location, a crawler tractor would strip whatever topsoil is present and stockpile it along the edge of the well pad for use during reclamation. Vegetation would be distributed along the sides of the well pad.

d. Proposed wellheads and christmas trees would be contained below location grade in pre-cast concrete trenches.

e. The cuttings trench or reserve pit would be fenced on three sides during drilling and on the fourth side immediately after the removal of the drilling rig. In the event closed loop drilling is employed, the cuttings trench would be removed or stockpiled on one edge of the trench and the area would be used for a completion pit during completion operations.

f. Fill from pit excavation would be stockpiled along the edge of the pit and the adjacent edge of the well pad.

g. Use of erosion control measures, including proper grading to minimize slopes, diversion terraces and ditches, mulching, terracing, riprap, fiber matting, temporary sediment traps, and broad-based drainage dips or low water crossings would be employed by BBC as necessary and appropriate to minimize erosion and surface runoff during well pad construction and operation. Cut and fill slopes would be constructed such that stability would be maintained for the life of the activity.

h. Construction of the well pad would take from 1 to 3 weeks depending on the features at the particular site.

i. Dust suppression may be implemented if necessary to minimize the amount of fugitive dust.

10. Plan for Restoration of the Surface:

Interim Reclamation (see Figure 4)

a. Portions of the disturbed area within a construction ROW or portions of well pads not needed for production would be reclaimed according to specifications of the BLM as appropriate.

b. Prior to interim reclamation activities, all solid wastes and refuse would be removed and placed at approved landfills. The portions of the well pad, CTB or access and pipeline corridor not needed for production would be re-contoured to promote proper drainage, salvaged topsoil would be replaced, and side slopes would be ripped and disked on the contour. Following site preparation, reseeding would be completed during either the spring or fall planting season, when weather conditions are most favorable. Seed mixtures for reclaimed areas would be site-specific and would require approval by the BLM. BBC would apply and meet BLM's Green River District Reclamation Standards, as practicable.

c. The operator would control noxious weeds along access road use authorizations, pipeline route authorizations, well sites, CTB's or other applicable facilities by spraying or mechanical removal. A list of noxious weeds may be obtained from the BLM or the appropriate county extension office. On BLM administered land it is required that a Pesticide Use Proposal be submitted and approved prior to the application of herbicides, pesticides or possibly hazardous chemicals.

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d. Following interim reclamation, access roads (including roads co-located with pipeline) would be reduced to approximately 30 ft of disturbance. Roads leading to well sites that would not have surface production equipment would be designed and reclaimed in a way that minimizes impacts to the visual character of the host lands.

e. Weather permitting, earthwork for interim reclamation would be completed within 6 months of completion of the final well on the pad or plugging and would continue until satisfactory revegetation cover is established. Inter-seeding (i.e. seeding into existing vegetation), secondary seeding, or staggered seeding may be used to accomplish revegetation objectives. During rehabilitation of areas in important wildlife habitat, provisions would be made for the establishment of native browse and forb species. Follow-up seeding or corrective erosion control measures would occur on areas where initial reclamation efforts are unsuccessful, as determined by the BLM or the appropriate surface management agency.

Dry Hole/Final Reclamation

f. All disturbed lands associated with this project, including the pipelines, access roads, water management facilities, CTB's etc. would be expediently reclaimed and reseeded in accordance with the reclamation plan and any pertinent site-specific COAs.

g. When a well is to be plugged and abandoned, BBC would submit a Notice of Intent to Abandon (NOA) to the BLM or UDOGM as appropriate. The BLM or UDOGM would then attach the appropriate surface rehabilitation COAs for the well pad, and as appropriate, for the associated access road, pipeline, and ancillary facilities. During plugging and abandonment, all structures and equipment would be removed from the well pad and CTB. Backfilling, leveling, and re-contouring would then be performed according to the BLM or UDOGM order.

h. Any mulch used by BBC would be weed-free and free from mold, fungi, or noxious weeds. Mulch may include native hay, small grain straw, wood fiber, live mulch, cotton, jute, synthetic netting or rock.

i. BBC would reshape disturbed channel beds to their approximate original configuration.

j. Reclamation of abandoned roads may include re-shaping, re-contouring, re-surfacing with topsoil, installation of water bars, and seeding on the contours. Road beds, well pads, and other compacted areas would be ripped to a depth of approximately 1 foot on 1.5 foot centers to reduce compaction prior to spreading the topsoil across the disturbed area. Stripped vegetation would be spread over the disturbance area for nutrient recycling, where practical. Additional erosion control measures (e.g. fiber matting) and road barriers to discourage travel may be constructed if appropriate. Graveled roads, well pads, and other sites would be stripped of usable gravel prior to ripping as deemed necessary. Culverts, cattleguards, and signs would be removed as roads are abandoned.

11. Surface and Mineral Ownership:

a. Surface ownership – Federal under the management of the Bureau of Land Management – Price Field Office, 125 South 600 West, Price Utah 84078; (435) 636-3600.

b. Mineral ownership – Federal under the management of the Bureau of Land Management – Price Field Office, 125 South 600 West, Price Utah 84078; (435) 636-3600.

12. Other Information:

a. Montgomery Archaeological Consultants conducted cultural resource inventories for this pad, access and pipeline under MOAC 12-272 dated September 5th and 21st, 2012.

b. BBC would require that their personnel, contractors, and subcontractors to comply with Federal regulations intended to protect archeological and cultural resources.

RECEIVED: September 28, 2012

c. Project personnel and contractors would be educated on and subject to the following requirements:

- No dogs within the WTP Project Area;
- No alcohol within the WTP Project Area;
- No firearms within the WTP Project Area;
- No littering within the WTP Project Area;
- Smoking within the WTP Project Area would only be allowed in off-operator active locations or in specifically designated smoking areas. All cigarette butts would be placed in appropriate containers and not thrown on the ground or out windows of vehicles; personnel and contractors would abide by all fire restriction orders;
- Campfires or uncontained fires of any kind would be prohibited within the WTP Project Area;
- Portable generators used in the WTP Project Area would have spark arrestors.

d. Proposed disturbances area as follows:

	Short Term	Long Term
Proposed Estimated Pad Disturbance	6.196 acres	1.919 acres
Proposed Estimated Co-Located Rd/PL New Disturbance	.641 acres	.24 acres
Proposed Estimated Co-Located Rd/PL Upgraded Disturbance along two-track[1]	14.725 acres	2.454 acres
Total Proposed Estimated	21.562 acres	4.613 acres

[1]The proposed disturbance associated with the 10,690 ft of existing road to be upgraded was calculated at 60-ft for disturbance purposes as 20-ft of the road is existing.

RECEIVED: September 28, 2012

API Well Number: 43007503510000

OPERATOR CERTIFICATION

Certification:

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

Executed this 27 day of Sept. 2012

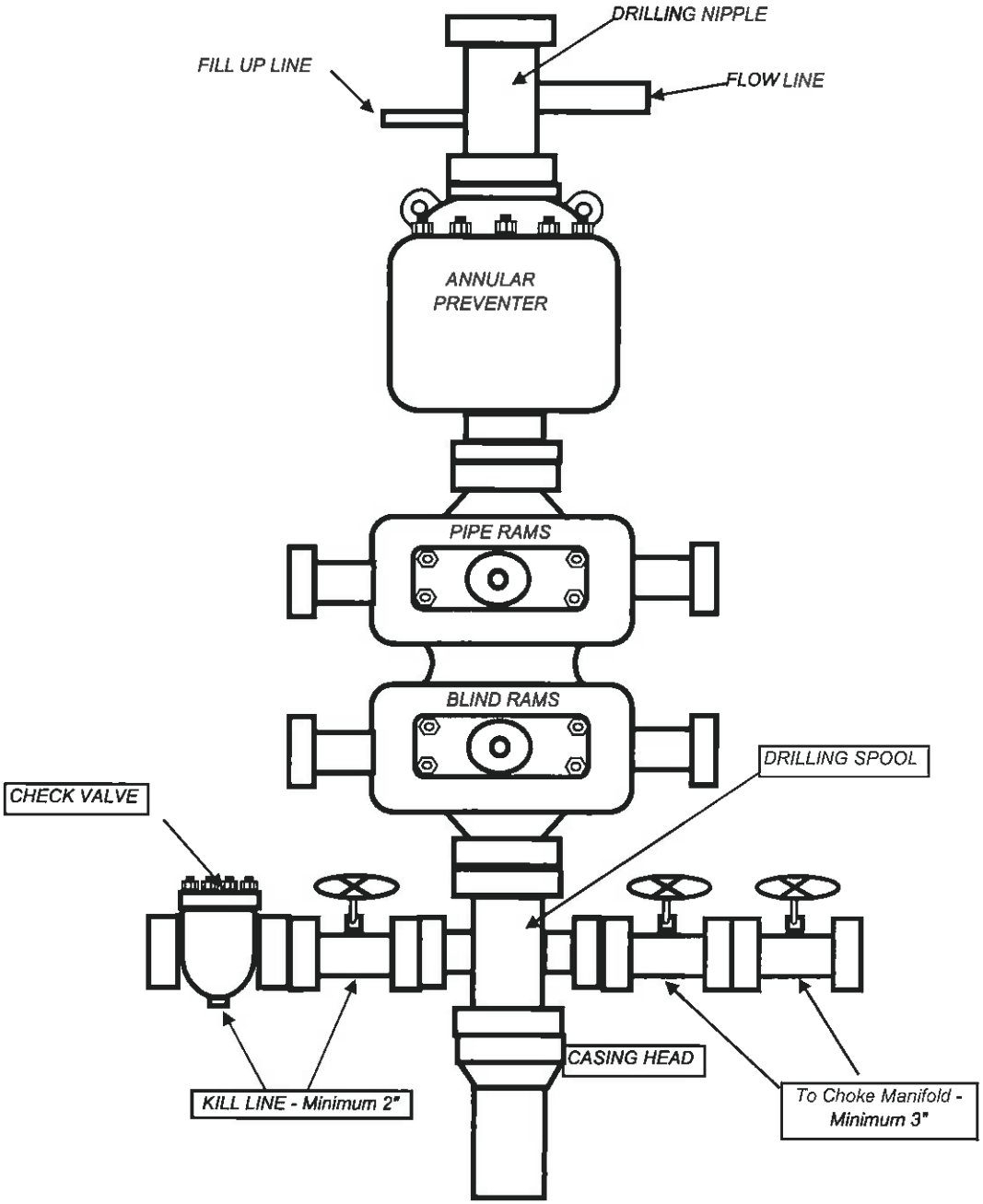
Name:	Brady Riley
Position Title:	Permit Analyst
Address:	1099 18th Street, Suite 2300, Denver, CO 80202
Telephone:	303-312-8115
Field Representative	Danny Rasmussen
Address:	1820 W. Hwy 40, Roosevelt, UT 84066
Telephone:	435-724-6999
E-mail:	drasmussen@billbarrettcorp.com

Brady Riley

Brady Riley, Permit Analyst

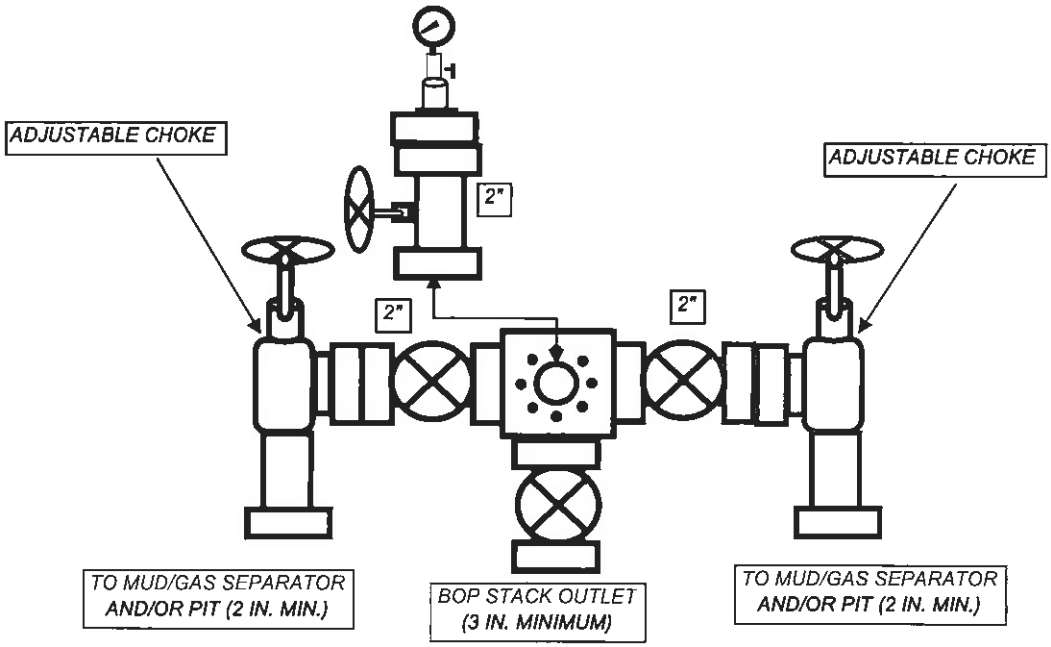
BILL BARRETT CORPORATION

TYPICAL 3,000 p.s.i. BLOWOUT PREVENTER



BILL BARRETT CORPORATION

TYPICAL 3,000 p.s.i. CHOKE MANIFOLD



API Well Number: 43007503510000

Bill Barrett Corporation

September 25, 2012

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
Horse Bench #16-18D-12-17
SHL: 340' FNL & 543' FEL, NENE 19-T12S-R17E
BHL: 637' FSL & 607' FEL, SESE 18-T12S-R17E
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 in order to minimize surface disturbance. By locating the well at the surface location and directionally drilling from this location, BBC will be able to utilize the existing road and pipelines in the area;
- BBC hereby certifies this well is located within the 400 feet "window" of the center of the 40 acre quarter-quarter section referenced above.

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 Matt Mulverhill, Land Administrator at 303-312-8118.

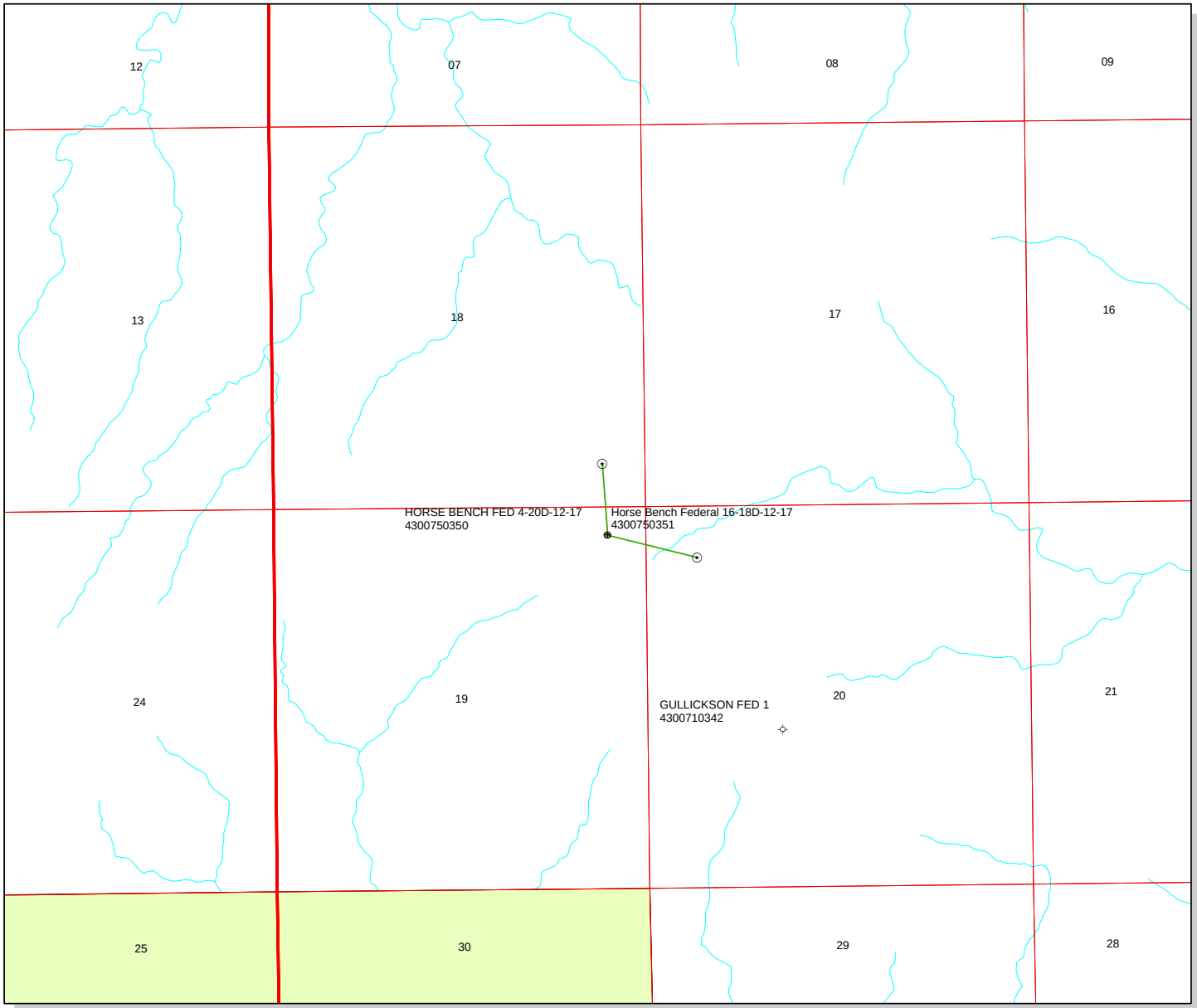
Sincerely,

Matt Mulverhill
BLR

Matt Mulverhill
Land Administrator

1099 18TH STREET SUITE 2300 DENVER, CO 80202 USA
T 303.293.9100 F 303.291.0420 www.BILLBARRETTCORP.com

API Well Number: 43007503510000



API Number: 4300750351

Well Name: Horse Bench Federal 16-18D-12-17

Township T12.0S Range R17.0E Section 19

Meridian: SLBM

Operator: BILL BARRETT CORP

Map Prepared:
Map Produced by Diana Mason

Units
STATUS
ACTIVE
EXPLORATORY
GAS STORAGE
NF PP OIL
NF SECONDARY
PI OIL
PP GAS
PP GEOTHERML
PP OIL
SECONDARY
TERMINATED

Fields
STATUS
Unknown
ABANDONED
ACTIVE
COMBINED
INACTIVE
STORAGE
TERMINATED

Wells Query
Status
APD - Aproved Permit
DRL - Spuded (Drilling Commenced)
GIW - Gas Injection
GS - Gas Storage
LOC - New Location
OPS - Operation Suspended
PA - Plugged Abandoned
PGW - Producing Gas Well
POW - Producing Oil Well
SGW - Shut-in Gas Well
SOW - Shut-in Oil Well
TA - Temp. Abandoned
TW - Test Well
WDW - Water Disposal
WIW - Water Injection Well
WSW - Water Supply Well
Bottom Hole Location - OilGasDb

N

1,750 875 0 1,750 Feet

1:17,106

RECEIVED: October 02, 2012

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 9/28/2012
API NO. ASSIGNED: 43007503510000
WELL NAME: Horse Bench Federal 16-18D-12-17
OPERATOR: BILL BARRETT CORP (N2165)
PHONE NUMBER: 303 312-8115
CONTACT: Brady Riley

PROPOSED LOCATION: NENE 19 120S 170E
Permit Tech Review: ☑

SURFACE: 0340 FNL 0543 FEL
Engineering Review: ☐

BOTTOM: 0637 FSL 0607 FEL
Geology Review: ☑

COUNTY: CARBON
LATITUDE: 39.76542
LONGITUDE: -110.04709
UTM SURF EASTINGS: 581618.00
NORTHINGS: 4402156.00
FIELD NAME: WILDCAT
LEASE TYPE: 1 - Federal
LEASE NUMBER: UTU62645
PROPOSED PRODUCING FORMATION(S): NORTH HORN
SURFACE OWNER: 1 - Federal
COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

- ☑ **PLAT**
- ☑ **Bond:** FEDERAL - WYB000040
- ☐ **Potash**
- ☐ **Oil Shale 190-5**
- ☐ **Oil Shale 190-3**
- ☐ **Oil Shale 190-13**
- ☑ **Water Permit:** NINE MILE CANYON
- ☐ **RDCC Review:**
- ☐ **Fee Surface Agreement**
- ☐ **Intent to Commingle**

Commingling Approved

LOCATION AND SITING:

- ☐ **R649-2-3.**

Unit:

- ☐ **R649-3-2. General**
- ☑ **R649-3-3. Exception**
- ☑ **Drilling Unit**

Board Cause No: R649-3-11

Effective Date:

Siting:

- ☑ **R649-3-11. Directional Drill**

Comments: Presite Completed

Stipulations:
1 - Exception Location - bhill
4 - Federal Approval - dmason
15 - Directional - dmason
23 - Spacing - dmason

RECEIVED: November 01, 2012

GARY R. HERBERT
Governor
GREGORY S. BELL
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES
MICHAEL R. STYLER
Executive Director
Division of Oil, Gas and Mining
JOHN R. BAZA
Division Director

Permit To Drill

****

Well Name: Horse Bench Federal 16-18D-12-17
API Well Number: 43007503510000
Lease Number: UTU62645
Surface Owner: FEDERAL
Approval Date: 11/1/2012

Issued to:
BILL BARRETT CORP, 1099 18th Street Ste 2300, Denver, CO 80202

Authority:
Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of R649-3-11. The expected producing formation or pool is the NORTH HORN Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

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

Exception Location:
Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

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

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

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

This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the “Board”). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled,

completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

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

- Within 24 hours following the spudding of the well - contact Carol Daniels at 801-538-5284
  (please leave a voicemail message if not available)
  OR
  submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website
  at http://oilgas.ogm.utah.gov

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

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

Approved By:

For John Rogers
Associate Director, Oil & Gas

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

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU62645

SUNDRY NOTICES AND REPORTS ON WELLS

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL
Gas Well

8. WELL NAME and NUMBER:
Horse Bench Federal 16-18D-12-17

2. NAME OF OPERATOR:
BILL BARRETT CORP

9. API NUMBER:
43007503510000

3. ADDRESS OF OPERATOR:
1099 18th Street Ste 2300 , Denver, CO, 80202

PHONE NUMBER:
303 312-8134 Ext

9. FIELD and POOL or WILDCAT:
WILDCAT

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
0340 FNL 0543 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NENE Section: 19 Township: 12.0S Range: 17.0E Meridian: S

COUNTY:
CARBON

STATE:
UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 11/1/2014	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ SPUD REPORT Date of Spud:	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	✓ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

Renew another year as BLM permit has not been apvd

Approved by the Utah Division of Oil, Gas and Mining

Date: October 07, 2013

By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Christina Hirtler	303 312-8597	Administrative Assistant

SIGNATURE	DATE
N/A	10/4/2013

RECEIVED: Oct. 04, 2013

The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43007503510000

API: 43007503510000
Well Name: Horse Bench Federal 16-18D-12-17
Location: 0340 FNL 0543 FEL QTR NENE SEC 19 TWNP 120S RNG 170E MER S
Company Permit Issued to: BILL BARRETT CORP
Date Original Permit Issued: 11/1/2012

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

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

Signature: Christina Hirtler **Date:** 10/4/2013
Title: Administrative Assistant **Representing:** BILL BARRETT CORP

RECEIVED: Oct. 04, 2013

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

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU62645

SUNDRY NOTICES AND REPORTS ON WELLS

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL
Gas Well

8. WELL NAME and NUMBER:
Horse Bench Federal 16-18D-12-17

2. NAME OF OPERATOR:
ENERVEST OPERATING, LLC

9. API NUMBER:
43007503510000

3. ADDRESS OF OPERATOR:
1001 Fannin Street, Suite 800 , Houston, TX, 77002

PHONE NUMBER:
713 659-3500 Ext

9. FIELD and POOL or WILDCAT:
WILDCAT

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
0340 FNL 0543 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NENE Section: 19 Township: 12.0S Range: 17.0E Meridian: S

COUNTY:
CARBON

STATE:
UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 6/15/2014	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ SPUD REPORT Date of Spud:	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	✓ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

EnerVest Operating, LLC requests a one year drilling permit extension for the referenced well. This is the second extension that has been requested.

Approved by the
November 25, 2014
Utah Division of
Oil, Gas and Mining

Date:

By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Don Hamilton	435 650-3866	Permitting Agent

SIGNATURE	DATE
N/A	11/15/2014

RECEIVED: Nov. 15, 2014

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 43007503510000

API: 43007503510000
Well Name: Horse Bench Federal 16-18D-12-17
Location: 0340 FNL 0543 FEL QTR NENE SEC 19 TWNP 120S RNG 170E MER S
Company Permit Issued to: ENERVEST OPERATING, LLC
Date Original Permit Issued: 11/1/2012

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

- **If located on private land, has the ownership changed, if so, has the surface agreement been updated?** ○ **Yes** ◉ **No**
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- **Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?** ○ **Yes** ◉ **No**
- **Has the approved source of water for drilling changed?** ○ **Yes** ◉ **No**
- **Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?** ○ **Yes** ◉ **No**
- **Is bonding still in place, which covers this proposed well?** ◉ **Yes** ○ **No**

Signature: Don Hamilton **Date:** 11/15/2014
Title: Permitting Agent **Representing:** ENERVEST OPERATING, LLC

RECEIVED: Nov. 15, 2014

FORM 9

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

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU62645

SUNDRY NOTICES AND REPORTS ON WELLS

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL
Gas Well

8. WELL NAME and NUMBER:
Horse Bench Federal 16-18D-12-17

2. NAME OF OPERATOR:
ENERVEST OPERATING, LLC

9. API NUMBER:
43007503510000

3. ADDRESS OF OPERATOR:
1001 Fannin Street, Suite 800 , Houston, TX, 77002

PHONE NUMBER:
713 659-3500 Ext

9. FIELD and POOL or WILDCAT:
WILDCAT

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
0340 FNL 0543 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NENE Section: 19 Township: 12.0S Range: 17.0E Meridian: S

COUNTY:
CARBON

STATE:
UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 4/15/2016	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ SPUD REPORT Date of Spud:	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	✓ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

EnerVest Operating, LLC requests a one year drilling permit extension for the referenced well. This is the third extension that have been requested.

Approved by the
October 15, 2015
Oil, Gas and Mining

Date:

By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Don Hamilton	435 650-3866	Permitting Agent

SIGNATURE	DATE
N/A	10/13/2015

RECEIVED: Oct. 13, 2015

The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43007503510000

API: 43007503510000
Well Name: Horse Bench Federal 16-18D-12-17
Location: 0340 FNL 0543 FEL QTR NENE SEC 19 TWNP 120S RNG 170E MER S
Company Permit Issued to: ENERVEST OPERATING, LLC
Date Original Permit Issued: 11/1/2012

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

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

Signature: Don Hamilton **Date:** 10/13/2015
Title: Permitting Agent **Representing:** ENERVEST OPERATING, LLC

RECEIVED: Oct. 13, 2015

Diana Mason <dianawhitney@utah.gov>

EnerVest APD's to rescind

Star Point Enterprises, Inc. <starpoint@etv.net>
To: Diana Mason <dianawhitney@utah.gov>

Tue, Oct 11, 2016 at 8:10 AM

Diana;

EnerVest wishes to have the following APD's rescinded or expired under their own terms.

Operator↑	API Number↑	Well Name↑	Work Type↑	Date Approved↑	Date Permit Will Expire↑
ENERVEST OPERATING, LLC	4300750350	HORSE BENCH FED 4-20D-12-17	DRILL	11/01/2012	11/01/2016
ENERVEST OPERATING, LLC	4300750351	Horse Bench Federal 16-18D-12-17	DRILL	11/01/2012	11/01/2016
ENERVEST OPERATING, LLC	4300731465	PPU FED 11-34D-12-16	DRILL	11/04/2008	11/04/2016
ENERVEST OPERATING, LLC	4300731469	PPU FED 10-34D-12-16	DRILL	11/04/2008	11/04/2016
ENERVEST OPERATING, LLC	4300750094	PRICKLY PEAR U FED 12-7D-12-15	DRILL	11/16/2010	11/16/2016
ENERVEST OPERATING, LLC	4300750095	PRICKLY PEAR U FED 11-7D-12-15	DRILL	11/16/2010	11/16/2016
ENERVEST OPERATING, LLC	4300750096	PRICKLY PEAR U FED 13-7D-12-15	DRILL	11/16/2010	11/16/2016
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Don

GARY R. HERBERT
Governor

SPENCER J. COX
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

October 13, 2016

Don Hamilton
Enervest Operating, LLC
1001 Fannin St Ste 800
Houston, TX 77002

Re: APDs Rescinded for Enervest Operating, LLC., Carbon County

Dear Mr. Hamilton:

Enclosed find the list of APDs that you asked to be rescinded. No drilling activity at these locations has been reported to the division. Therefore, approval to drill these wells is hereby rescinded as of October 11, 2016.

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

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

Sincerely,

Diana Mason
Environmental Scientist

cc: Well File
Bureau of Land Management, Price

1594 West North Temple, Suite 1210, Salt Lake City, UT 84116
PO Box 145801, Salt Lake City, UT 84114-5801
telephone (801) 538-5340 • facsimile (801) 359-3940 • TTY (801) 538-7458 • *www.ogm.utah.gov*

UTAH DNR
OIL, GAS & MINING

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Division Director

October 13, 2016

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Enervest Operating, LLC
1001 Fannin St Ste 800
Houston, TX 77002

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