

CONFIDENTIAL



01782916

Page *

FORM

4

Rev. 12-05

State of Colorado

Oil and Gas Conservation Commission

1100 Lincoln Street, Suite 601, Denver, Colorado 80203 Phone: (303)854-2100 Fax: (303)854-2102



SUNDRY NOTICE

Submit original plus one copy. This form is to be used for general technical and environmental sundry information. For proposed or completed operations, describe in full on Technical Information Page (Page 2 of this form) identify well or other facility by API Number or by OGCC Facility ID. Operator shall send an informational copy of all sundry notices for wells located in High Density Areas to the Local Government Designee (Rule 603b.)

RECEIVED

MAY 06 2009

COGCC

Complete and Submitment

Checklist

OP OGCC

1. OGCC Operator Number	10071	4. Contact Name	Tracey Fallang
2. Name of Operator	Bill Barrett Corporation	Tracey Fallang	
3. Address	1099 18th Street, Suite 2300	Phone:	303-312-8134
City	Denver	State	CO
Zip	80202	Fax:	303-291-0420
5. API Number	05-083-06663-60	OGCC Facility ID Number	
6. Well/Facility Name	McAfee	7. Well/Facility Number	3H-19-38-16
8. Location (Qtr/Sec. Twp. Rng. Meridian)	NENW, Sec. 19, T38N-R16W, NMPM		
9. County	Montezuma	10. Field Name	Wildcat
11. Federal Indian or State Lease Number			

Survey Plat	<input checked="" type="checkbox"/>
Directional Survey	<input checked="" type="checkbox"/>
Surface Eqpm Diagram	<input type="checkbox"/>
Technical Info Page	<input type="checkbox"/>
Other	<input checked="" type="checkbox"/>

General Notice

<input checked="" type="checkbox"/> CHANGE OF LOCATION: Attach New Survey Plat (a change of surface qtr/qtr is substantive and requires a new permit)			
Change of Surface Footage from Exterior Section Lines	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Change of Surface Footage to Exterior Section Lines	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Change of Bottomhole Footage from Exterior Section Lines:	560	S	1838 W
Change of Bottomhole Footage to Exterior Section Lines	460	S	980 W
Bottomhole location Qtr/Sec. Twp. Rng. Mer Sec. 19, T38N-R16W, NMPM			
Latitude	Distance to nearest property line		
Longitude	Distance to nearest bldg. public rd. utility or RR		
Ground Elevation	Distance to nearest lease line 460		
	is location in a High Density Area (rule 603b)? Yes/No N		
	Distance to nearest well same formation 2350		
	Surface owner consultation date		
GPS DATA:			
Date of Measurement	PDOP Reading	Instrument Operator's Name	
<input checked="" type="checkbox"/> CHANGE SPACING UNIT			
Formation	Formation Code	Spacing order number	Unit Acreage
Gothe	BosH	533-1	1280
Unit configuration		Remove from surface bond	
Signed surface use agreement attached:			
<input type="checkbox"/> CHANGE OF OPERATOR (prior to drilling):		<input type="checkbox"/> CHANGE WELL NAME	
Effective Date	From	NUMBER	
Plugging Bond <input type="checkbox"/> Blanket <input type="checkbox"/> Individual	To		
	Effective Date		
<input type="checkbox"/> ABANDONED LOCATION:		<input type="checkbox"/> NOTICE OF CONTINUED SHUT IN STATUS	
Was location ever built? <input type="checkbox"/> Yes <input type="checkbox"/> No	Date well shut in or temporarily abandoned		
Is site ready for inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No	Has Production Equipment been removed from site? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Date Ready for Inspection	MIT required if shut in longer than two years. Date of last MIT		
<input type="checkbox"/> SPUD DATE:		<input type="checkbox"/> REQUEST FOR CONFIDENTIAL STATUS (6 mos from date casing set)	
<input type="checkbox"/> SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK			
Method used	Cementing tool setting perf depth	Cement volume	Cement top
*submit cbl and cement job summaries			
Date			
<input type="checkbox"/> RECLAMATION: Attach technical page describing final reclamation procedures per Rule 1004			
Final reclamation will commence on approximately		<input type="checkbox"/> Final reclamation is completed and site is ready for inspection	

Technical Engineering/Environmental Notice

<input checked="" type="checkbox"/> Notice of Intent		<input type="checkbox"/> Report of Work Done	
Approximate Start Date 7/1/09		Date Work Completed:	
Details of work must be described in full on Technical Information Page (Page 2 must be submitted.)			
<input type="checkbox"/> Intent to Recomplete (submit form 2)	<input type="checkbox"/> Request to Vent or Flare	<input type="checkbox"/> E&P Waste Disposal	
<input checked="" type="checkbox"/> Change Drilling Plans	<input type="checkbox"/> Repair Well	<input type="checkbox"/> Beneficial Reuse of E&P Waste	
<input type="checkbox"/> Gross Interval Changed?	<input type="checkbox"/> Rule 502 variance requested	<input type="checkbox"/> Status Update/Change of Remediation Plans	
<input checked="" type="checkbox"/> Casing/Cementing Program Change	<input type="checkbox"/> Other	for Spills and Releases	

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.

Signer Tracey Fallang Date 05/06/2009 Email tfallang@billbarrettcorp.com

Print Name Tracey Fallang Title Regulatory Analyst

COGCC Approved MEW / UAW Title PEI / ET2 Date 5/7/09

CONDITIONS OF APPROVAL, IF ANY:

TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

- | | | | |
|--|--------------------------------|-----------------------|--------------|
| 1. OGCC Operator Number: | 10071 | API Number: | 05-083-06663 |
| 2. Name of Operator: | Bill Barrett Corporation | OGCC Facility ID # | |
| 3. Well/Facility Name: | McAfee | Well/Facility Number: | 3H-19-38-16 |
| 4. Location (QtrQtr, Sec, Twp, Rng, Meridian): | NENW, Sec. 19, T38N-R16W, NMPM | | |

This form is to be completed whenever a Sundry Notice is submitted requiring detailed report of work to be performed or completed. This form shall be transmitted within 30 days of work completed as a "subsequent" report and must accompany Form 4, page 1.

5. **DESCRIBE PROPOSED OR COMPLETED OPERATIONS**

This sundry is being submitted to change the bottom hole based on the spacing order 533-1 which was recently approved. In addition, BBC would also like to sundry the current drilling plans to allow for casing and cementing options. The revised horizontal plans, plat and a lease hold map outlining the area for the spacing unit is attached.

New Top of Producing Interval:
864' FNL, 1980' FWL, Sec. 19

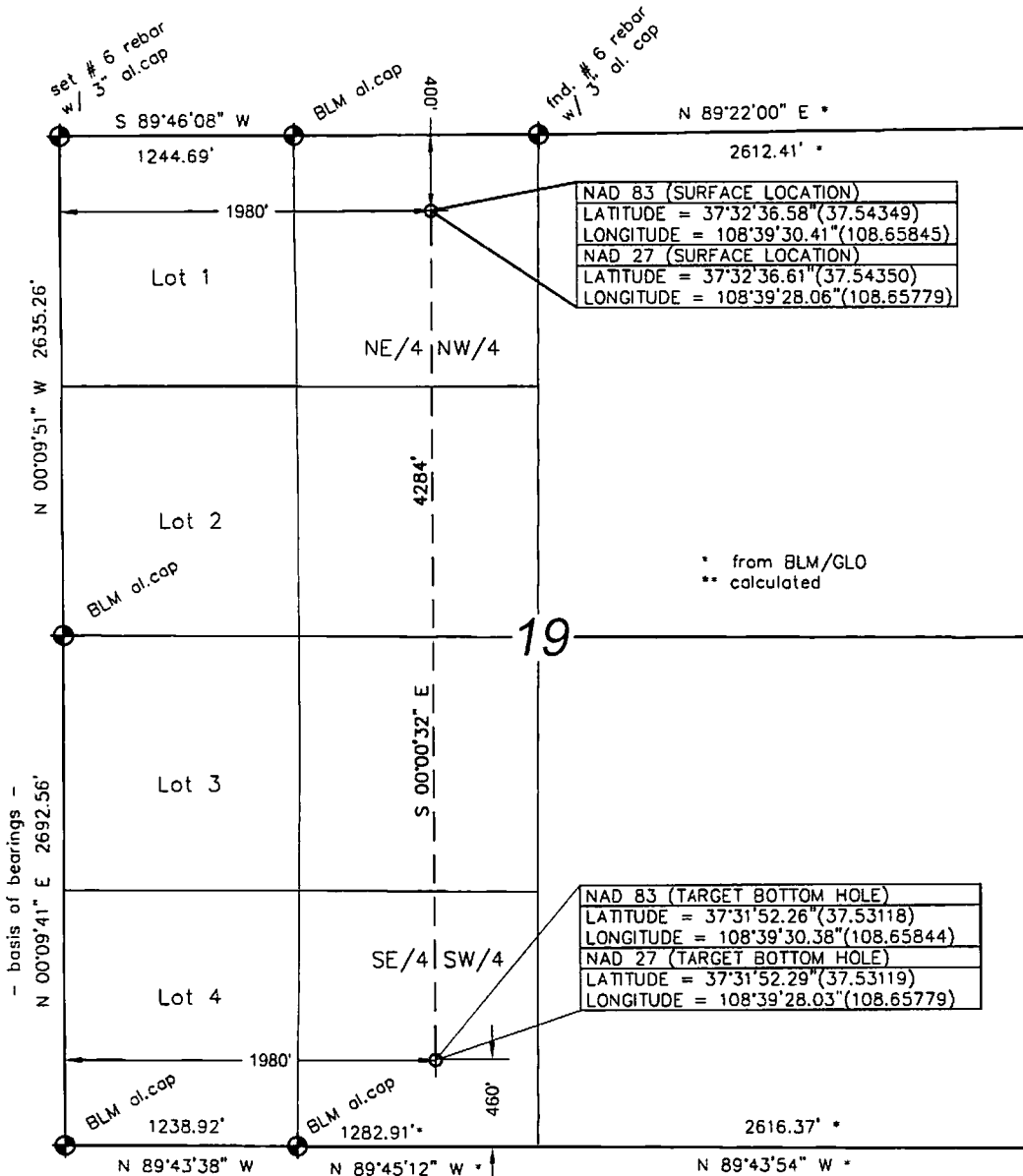
New TD: 10,010'

Size of Hole	Size of Casing	Weight/ft	Setting Depth (MD)	Sx Cement	Cmt Btm	Cmt Top

Option B - Cemented Production Casing to Surface (no intermediate string)						
Conductor	26"	16"	65#	80'	grout	80'
Surface	12 1/4"	9 5/8"	36#	2000'	760	2000'
Production	6 1/8"	4 1/2"	11.6# or 15.1#	10,010'	1340	10,010'

BBC will run a CBL under Option B. BBC may also drill a 9 7/8" surface hole and set 7 5/8" casing. Cement volumes would be adjusted accordingly.

Well Location Plat



Bill Barrett Corporation McAfee #3H-19-38-16

400'FNL & 1980 FWL (surface location)

Section 19, T38N, R16W, NMPM

Montezuma County, Colorado

7079' grd. el. (NAVD88)

660'FSL & 1980'FWL (bottom hole)

Section 19, T38N, R16W, NMPM

Montezuma County, Colorado

Date of Survey: 11/04/08

Date of Plat: 2/20/09



KNOW ALL MEN BY THESE PRESENTS that I, GERALD G. HUDDLESTON, do hereby certify that this plat was prepared from field notes of an actual survey made by me or under my supervision and that the same is true and accurate to the best of my knowledge and belief.



Bill Barrett Corporation

YELLOW JACKET CEMENT VOLUMES

Well Name: **McAfee 3H-19-38-16**

Surface Hole Data:

Total Depth:	2.000
Top of Cement:	0
OD of Hole:	12.250
OD of Casing:	9.625

Calculated Data:

Lead Volume:	469.8	ft
Lead Fill:	1,500'	
Tail Volume:	156.6	ft
Tail Fill:	500'	

Cement Data:

Lead Yield:	1.98	ft ³ /sk
Tail Yield:	1.15	ft ³ /sk
% Excess:	100%	

Calculated # of Sacks:

# SK's Lead:	480
# SK's Tail:	260

Intermediate Hole Data: Option A

Total Depth:	5.990
Top of Cement:	0
OD of Hole:	8.750
OD of Casing:	7.000

Calculated Data:

Lead Volume:	900.5	ft ³
Lead Fill:	5,990'	

Cement Data:

Lead Yield:	1.47	ft ³ /sk
% Excess:	30%	

Calculated # of Sacks:

# SK's Lead:	800
--------------	-----

Production Hole Data: Option B

Total Depth:	10010
Top of Cement:	0
OD of Hole:	6.125
OD of Casing:	4.5

Calculated Data:

Lead Volume:	1368.69	ft ³
Lead Fill:	10010'	

Cement Data:

Lead Yield:	1.331	ft ³ /sk
% Excess:	30%	

Calculated # of Sacks:

# SK's Lead:	1340
--------------	------

McAfee 3H-19-38-16 Proposed Cementing Program

<u>Job Recommendation</u>	<u>Surface Casing</u>
Lead Cement - (1500' - 0')	
Halliburton Light Premium	Fluid Weight: 12.3 lbm/gal
2.0% Calcium Chloride	Slurry Yield: 1.98 ft ³ /sk
0.25 lbm/sk Ploy-E-Flake	Total Mixing Fluid: 10.6 Gal/sk
	Top of Fluid: 0'
	Calculated Fill: 1,500'
	Volume: 167.33 bbl
	Proposed Sacks: 480 sks
Tail Cement - (2000' - 1500')	
Premium Cement	Fluid Weight: 15.8 lbm/gal
94 lbm/sk Premium Cement	Slurry Yield: 1.15 ft ³ /sk
1.0% Calcium Chloride	Total Mixing Fluid: 5.2 Gal/sk
0.25 lbm/sk Ploy-E-Flake	Top of Fluid: 1,500'
	Calculated Fill: 500'
	Volume: 59.05 bbl
	Proposed Sacks: 280 sks

<u>Job Recommendation</u>	<u>Intermediate Casing</u>
Lead Cement - (5990' - 0')	
50/50 Poz Premium	Fluid Weight: 13 lbm/gal
3.0 % Bentonite Total	Slurry Yield: 1.47 ft ³ /sk
5.0 lbm/sk Gilsonite	Total Mixing Fluid: 6.39 Gal/sk
0.6% Halad®-9	Top of Fluid: 0'
0.3% CFR-3	Calculated Fill: 5,990'
0.125 lbm/sk Flocele	Volume: 208.48 bbl
	Proposed Sacks: 800 sks

<u>Job Recommendation</u>	<u>Production Casing</u>
Lead Cement - (10010' - 0')	
50/50 Poz Premium	Fluid Weight: 13.5 lbm/gal
4.0 % Bentonite Total	Slurry Yield: 1.33 ft ³ /sk
0.5% Halad®-344	Total Mixing Fluid: 5.818 Gal/sk
0.4% Halad 413	Top of Fluid: 0'
0.3% Econolite	Calculated Fill: 10,010'
0.2% Versaset	
0.4% HR-5 (Retarder)	
0.3% Super CBL (Expander)	Volume: 568.20 bbl
	Proposed Sacks: 1340 sks



Project: MONTEZUMA COUNTY, COLORADO
 Site: MCAFEE 3H-19-38-16
 Well: MCAFEE 3H-19-38-16
 Wellbore: MCAFEE 3H-19-38-16
 Design: Design #2
 Lat: 37° 32' 36.610 N
 Long: 108° 39' 28.060 W
 GL: 7079.00
 KB: WELL @ 7095.00ft (Original Well Elev)

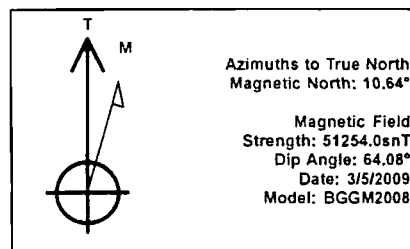


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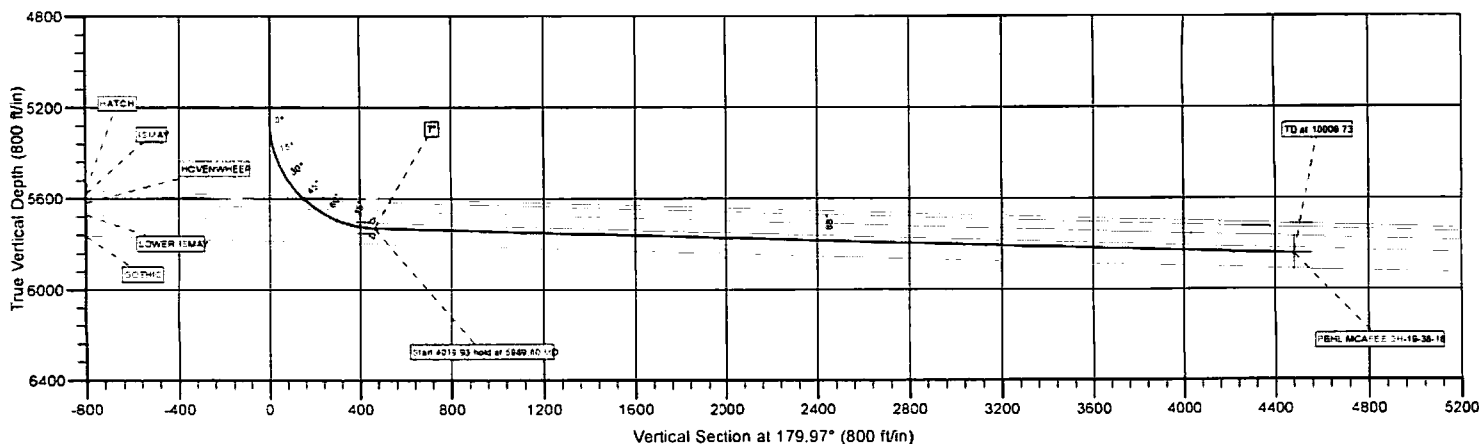
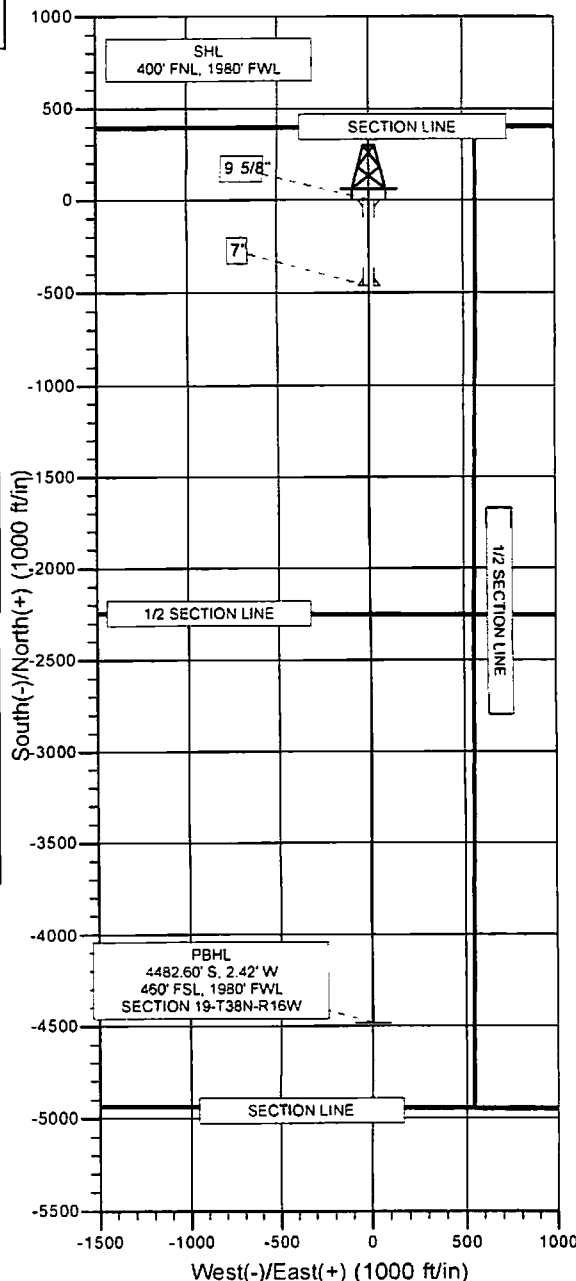
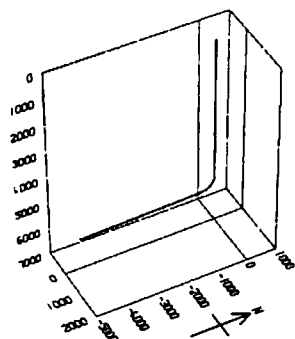
SECTION DETAILS								
MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5253.05	0.00	0.00	5253.05	0.00	0.00	0.00	0.00	0.00
5989.80	88.41	179.97	5730.33	-464.22	0.25	12.00	179.97	464.22
10009.73	88.41	179.97	5841.87	-4482.60	2.42	0.00	0.00	4482.60
Annotation								
Start Build 12.00								
Start 4019.93 hold at 5989.80 MD								
TD at 10009.73								

WELL DETAILS: MCAFEE 3H-19-38-16						
+N/-S	+E/-W	Northing	Ground Level: 7079.00	Easting	Latitude	Longitude
0.00	0.00	334738.88		1084616.72	37° 32' 36.610 N	108° 39' 28.060 W

WELLBORE TARGET DETAILS (LAT/LONG)						
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
PBHL MCAFEE 3H-19-38-16	5841.87	-4482.60	2.42	37° 31' 52.290 N	108° 39' 28.030 W	Point



FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
1311.00	1311.00	GOthic
2051.00	2051.00	ENTRADA
4217.00	4217.00	CHINLE
5591.92	5629.82	HERMOSA
5609.43	5655.38	HATCH
5648.84	5719.63	ISMAY
5703.89	5842.84	HOVENWHEEP
		LOWER ISMAY



Plan: Design #2 (MCAFEE 3H-19-38-16/MCAFEE 3H-19-38-16)

Created By TRACY WILLIAMS Date 14 55 March 05 2009



Bill Barrett Corporation

BILL BARRETT CORP

MONTEZUMA COUNTY, COLORADO

MCAFEE 3H-19-38-16

MCAFEE 3H-19-38-16

MCAFEE 3H-19-38-16

Plan: Design #2

Standard Planning Report

05 March, 2009



Weatherford®

Database: EDM 2003.21 Single User Db
Company: BILL BARRETT CORP
Project: MONTEZUMA COUNTY, COLORADO
Site: MCAFEE 3H-19-38-16
Well: MCAFEE 3H-19-38-16
Wellbore: MCAFEE 3H-19-38-16
Design: Design #2

Local Co-ordinate Reference: Well MCAFEE 3H-19-38-16
TVD Reference: WELL @ 7095.00ft (Original Well Elev)
MD Reference: WELL @ 7095.00ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Project	MONTEZUMA COUNTY, COLORADO		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Ground Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Colorado South 503		

Site MCAFEE 3H-19-38-16
Site Position:
From: Lat/Long **Northing:** 334,738.88 ft **Latitude:** 37° 32' 36.610 N
Position Uncertainty: 0.00 ft **Easting:** 1,084,616.72 ft **Longitude:** 108° 39' 28.060 W
Slot Radius: " **Grid Convergence:** -1.94 °

Well MCAFEE 3H-19-38-16
Well Position +N/-S 0.00 ft **Northing:** 334,738.88 ft **Latitude:** 37° 32' 36.610 N
 +E/-W 0.00 ft **Easting:** 1,084,616.72 ft **Longitude:** 108° 39' 28.060 W
Position Uncertainty 0.00 ft **Wellhead Elevation:** ft **Ground Level:** 7,079.00 ft

Wellbore MCAFEE 3H-19-38-16
Magnetics

Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
BGGM2008	3/5/2009	10.64	64.08	51,254

Design Design #2
Audit Notes:
Version: **Phase:** PLAN **Tie On Depth:** 0.00
Vertical Section:

Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
0.00	0.00	0.00	179.97

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,253.05	0.00	0.00	5,253.05	0.00	0.00	0.00	0.00	0.00	0.00	
5,989.80	88.41	179.97	5,730.33	-464.22	0.25	12.00	12.00	0.00	179.97	PBHL MCAFEE 3H
10,009.73	88.41	179.97	5,841.87	-4,482.60	2.42	0.00	0.00	0.00	0.00	PBHL MCAFEE 3H



Database: EDM 2003.21 Single User Db
Company: BILL BARRETT CORP
Project: MONTEZUMA COUNTY, COLORADO
Site: MCAFEE 3H-19-38-16
Well: MCAFEE 3H-19-38-16
Wellbore: MCAFEE 3H-19-38-16
Design: Design #2

Local Co-ordinate Reference: Well MCAFEE 3H-19-38-16
TVD Reference: WELL @ 7095.00ft (Original Well Elev)
MD Reference: WELL @ 7095.00ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
ENTRADA									
1,311.00	0.00	0.00	1,311.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8"									
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
CHINLE									
2,051.00	0.00	0.00	2,051.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
HERMOSA									
4,217.00	0.00	0.00	4,217.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00



Database: EDM 2003.21 Single User Db
Company: BILL BARRETT CORP
Project: MONTEZUMA COUNTY, COLORADO
Site: MCAFFEE 3H-19-38-16
Well: MCAFFEE 3H-19-38-16
Wellbore: MCAFFEE 3H-19-38-16
Design: Design #2

Local Co-ordinate Reference: Well MCAFFEE 3H-19-38-16
TVD Reference: WELL @ 7095.00ft (Original Well Elev)
MD Reference: WELL @ 7095.00ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

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)
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 12.00									
5,253.05	0.00	0.00	5,253.05	0.00	0.00	0.00	0.00	0.00	0.00
5,275.00	2.63	179.97	5,274.99	-0.50	0.00	0.50	12.00	12.00	0.00
5,300.00	5.63	179.97	5,299.92	-2.31	0.00	2.31	12.00	12.00	0.00
5,325.00	8.63	179.97	5,324.73	-5.41	0.00	5.41	12.00	12.00	0.00
5,350.00	11.63	179.97	5,349.34	-9.81	0.01	9.81	12.00	12.00	0.00
5,375.00	14.63	179.97	5,373.68	-15.49	0.01	15.49	12.00	12.00	0.00
5,400.00	17.63	179.97	5,397.69	-22.44	0.01	22.44	12.00	12.00	0.00
5,425.00	20.63	179.97	5,421.31	-30.63	0.02	30.63	12.00	12.00	0.00
5,450.00	23.63	179.97	5,444.46	-40.05	0.02	40.05	12.00	12.00	0.00
5,475.00	26.63	179.97	5,467.09	-50.66	0.03	50.66	12.00	12.00	0.00
5,500.00	29.63	179.97	5,489.14	-62.45	0.03	62.45	12.00	12.00	0.00
5,525.00	32.63	179.97	5,510.53	-75.38	0.04	75.38	12.00	12.00	0.00
5,550.00	35.63	179.97	5,531.22	-89.40	0.05	89.40	12.00	12.00	0.00
5,575.00	38.63	179.97	5,551.15	-104.49	0.06	104.49	12.00	12.00	0.00
5,600.00	41.63	179.97	5,570.26	-120.61	0.07	120.61	12.00	12.00	0.00
5,625.00	44.63	179.97	5,588.51	-137.70	0.07	137.70	12.00	12.00	0.00
HATCH									
5,629.82	45.21	179.97	5,591.92	-141.10	0.08	141.10	12.00	12.00	0.00
5,650.00	47.63	179.97	5,605.83	-155.72	0.08	155.72	12.00	12.00	0.00
ISMAY									
5,655.38	48.28	179.97	5,609.43	-159.72	0.09	159.72	12.00	12.00	0.00
5,675.00	50.63	179.97	5,622.18	-174.62	0.09	174.62	12.00	12.00	0.00
5,700.00	53.63	179.97	5,637.53	-194.36	0.10	194.36	12.00	12.00	0.00
HOVENWHEEP									
5,719.63	55.99	179.97	5,648.84	-210.40	0.11	210.40	12.00	12.00	0.00
5,725.00	56.63	179.97	5,651.82	-214.87	0.12	214.87	12.00	12.00	0.00
5,750.00	59.63	179.97	5,665.01	-236.10	0.13	236.10	12.00	12.00	0.00
5,775.00	62.63	179.97	5,677.08	-257.99	0.14	257.99	12.00	12.00	0.00
5,800.00	65.63	179.97	5,687.99	-280.48	0.15	280.48	12.00	12.00	0.00
5,825.00	68.63	179.97	5,697.70	-303.51	0.16	303.51	12.00	12.00	0.00
LOWER ISMAY									
5,842.84	70.78	179.97	5,703.89	-320.25	0.17	320.25	12.00	12.00	0.00
5,850.00	71.63	179.97	5,706.19	-327.02	0.18	327.02	12.00	12.00	0.00
5,875.00	74.63	179.97	5,713.45	-350.94	0.19	350.94	12.00	12.00	0.00
5,900.00	77.63	179.97	5,719.44	-375.21	0.20	375.21	12.00	12.00	0.00
5,925.00	80.63	179.97	5,724.15	-399.76	0.22	399.76	12.00	12.00	0.00
5,950.00	83.63	179.97	5,727.57	-424.52	0.23	424.52	12.00	12.00	0.00
5,975.00	86.63	179.97	5,729.69	-449.43	0.24	449.43	12.00	12.00	0.00
Start 4019.93 hold at 5989.80 MD - 7"									
5,989.80	88.41	179.97	5,730.33	-464.22	0.25	464.22	12.00	12.00	0.00
6,000.00	88.41	179.97	5,730.61	-474.41	0.26	474.41	0.00	0.00	0.00
6,100.00	88.41	179.97	5,733.39	-574.37	0.31	574.37	0.00	0.00	0.00
6,200.00	88.41	179.97	5,736.16	-674.33	0.36	674.34	0.00	0.00	0.00
6,300.00	88.41	179.97	5,738.94	-774.30	0.42	774.30	0.00	0.00	0.00
6,400.00	88.41	179.97	5,741.71	-874.26	0.47	874.26	0.00	0.00	0.00
6,500.00	88.41	179.97	5,744.49	-974.22	0.53	974.22	0.00	0.00	0.00



Database: EDM 2003.21 Single User Db
Company: BILL BARRETT CORP
Project: MONTEZUMA COUNTY, COLORADO
Site: MCAFEE 3H-19-38-16
Well: MCAFEE 3H-19-38-16
Wellbore: MCAFEE 3H-19-38-16
Design: Design #2

Local Co-ordinate Reference: Well MCAFEE 3H-19-38-16
TVD Reference: WELL @ 7095.00ft (Original Well Elev)
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North Reference: True
Survey Calculation Method: Minimum Curvature

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)
6,600.00	88.41	179.97	5,747.26	-1,074.18	0.58	1,074.18	0.00	0.00	0.00
6,700.00	88.41	179.97	5,750.04	-1,174.14	0.63	1,174.14	0.00	0.00	0.00
6,800.00	88.41	179.97	5,752.81	-1,274.10	0.69	1,274.10	0.00	0.00	0.00
6,900.00	88.41	179.97	5,755.59	-1,374.07	0.74	1,374.07	0.00	0.00	0.00
7,000.00	88.41	179.97	5,758.36	-1,474.03	0.79	1,474.03	0.00	0.00	0.00
7,100.00	88.41	179.97	5,761.14	-1,573.99	0.85	1,573.99	0.00	0.00	0.00
7,200.00	88.41	179.97	5,763.91	-1,673.95	0.90	1,673.95	0.00	0.00	0.00
7,300.00	88.41	179.97	5,766.69	-1,773.91	0.96	1,773.91	0.00	0.00	0.00
7,400.00	88.41	179.97	5,769.46	-1,873.87	1.01	1,873.87	0.00	0.00	0.00
7,500.00	88.41	179.97	5,772.24	-1,973.83	1.06	1,973.83	0.00	0.00	0.00
7,600.00	88.41	179.97	5,775.01	-2,073.80	1.12	2,073.80	0.00	0.00	0.00
7,700.00	88.41	179.97	5,777.79	-2,173.76	1.17	2,173.76	0.00	0.00	0.00
7,800.00	88.41	179.97	5,780.56	-2,273.72	1.23	2,273.72	0.00	0.00	0.00
7,900.00	88.41	179.97	5,783.33	-2,373.68	1.28	2,373.68	0.00	0.00	0.00
8,000.00	88.41	179.97	5,786.11	-2,473.64	1.33	2,473.64	0.00	0.00	0.00
8,100.00	88.41	179.97	5,788.88	-2,573.60	1.39	2,573.60	0.00	0.00	0.00
8,200.00	88.41	179.97	5,791.66	-2,673.56	1.44	2,673.57	0.00	0.00	0.00
8,300.00	88.41	179.97	5,794.43	-2,773.53	1.50	2,773.53	0.00	0.00	0.00
8,400.00	88.41	179.97	5,797.21	-2,873.49	1.55	2,873.49	0.00	0.00	0.00
8,500.00	88.41	179.97	5,799.98	-2,973.45	1.60	2,973.45	0.00	0.00	0.00
8,600.00	88.41	179.97	5,802.76	-3,073.41	1.66	3,073.41	0.00	0.00	0.00
8,700.00	88.41	179.97	5,805.53	-3,173.37	1.71	3,173.37	0.00	0.00	0.00
8,800.00	88.41	179.97	5,808.31	-3,273.33	1.76	3,273.33	0.00	0.00	0.00
8,900.00	88.41	179.97	5,811.08	-3,373.29	1.82	3,373.30	0.00	0.00	0.00
9,000.00	88.41	179.97	5,813.86	-3,473.26	1.87	3,473.26	0.00	0.00	0.00
9,100.00	88.41	179.97	5,816.63	-3,573.22	1.93	3,573.22	0.00	0.00	0.00
9,200.00	88.41	179.97	5,819.41	-3,673.18	1.98	3,673.18	0.00	0.00	0.00
9,300.00	88.41	179.97	5,822.18	-3,773.14	2.03	3,773.14	0.00	0.00	0.00
9,400.00	88.41	179.97	5,824.96	-3,873.10	2.09	3,873.10	0.00	0.00	0.00
9,500.00	88.41	179.97	5,827.73	-3,973.06	2.14	3,973.06	0.00	0.00	0.00
9,600.00	88.41	179.97	5,830.50	-4,073.03	2.20	4,073.03	0.00	0.00	0.00
9,700.00	88.41	179.97	5,833.28	-4,172.99	2.25	4,172.99	0.00	0.00	0.00
9,800.00	88.41	179.97	5,836.05	-4,272.95	2.30	4,272.95	0.00	0.00	0.00
9,900.00	88.41	179.97	5,838.83	-4,372.91	2.36	4,372.91	0.00	0.00	0.00
TD at 10009.73 - PBHL MCAFEE 3H-19-38-16									
10,009.73	88.41	179.97	5,841.87	-4,482.60	2.42	4,482.60	0.00	0.00	0.00

Wellbore Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL MCAFEE 3H-1:	0.00	0.00	5,841.87	-4,482.60	2.42	330,258.77	1,084,467.63	37° 31' 52.290 N	108° 39' 28.030 W
- plan hits target center									
- Point									
	2,000.00	2,000.00	9 5/8"					9-5/8	12-1/4
	5,989.80	5,730.33	7"					7	8-3/4



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MD Reference: WELL @ 7095.00ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,311.00	1,311.00	ENTRADA		1.59	179.97
2,051.00	2,051.00	CHINLE		1.59	179.97
4,217.00	4,217.00	HERMOSA		1.59	179.97
5,629.82	5,588.00	HATCH		1.59	179.97
5,655.38	5,605.00	ISMAY		1.59	179.97
5,719.63	5,643.00	HOVENWHEEP		1.59	179.97
5,842.84	5,695.00	LOWER ISMAY		1.59	179.97
	5,787.00	GOTHIC		1.59	179.97

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
5,253.05	5,253.05	0.00	0.00	Start Build 12.00
5,989.80	5,730.33	-464.22	0.25	Start 4019.93 hold at 5989.80 MD
10,009.73	5,841.87	-4,482.60	2.42	TD at 10009.73

