

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS	5. Lease Number SF-078415 Unit Reporting Number
1b. Type of Well GAS		6. If Indian, All. or Tribe
2. Operator BURLINGTON RESOURCES Oil & Gas Company, LP		7. Unit Agreement Name NMNM-73185-MV
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700		8. Farm or Lease Name Hill 9. Well Number 3M RCVD SEP 20 '11 OIL CONS. DIV. DIST. 3
4. Location of Well Surface: Unit P(SESE), 590' FSL & 719' FEL Unit O(SWSE), 725' FSL & 1872' FEL Surface: Latitude: 36.73410° N (NAD83) Longitude: 107.65632° W BHL: Latitude: 36.73457° N (NAD83) Longitude: 107.66025° W		10. Field, Pool, Wildcat Blanco MV / Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 10, T29N, R8W API # 30-045-35271
14. Distance in Miles from Nearest Town 11 miles to Blanco, NM		12. County San Juan 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 590'		
16. Acres in Lease 1440.00 acres		17. Acres Assigned to Well 320.00 acres E/2
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 407' from Hill 3A (MV)		
19. Proposed Depth 7533'	 H ₂ S POTENTIAL EXIST	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6290' GL		22. Approx. Date Work will Start
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Doilie L. Busse</u> Doilie L. Busse (Staff Regulatory Tech)		<u>April 6, 2011</u> Date

PERMIT NO. APPROVAL DATE
APPROVED BY TITLE AFM DATE 9/15/11

Archaeological Report attached
Threatened and Endangered Species Report attached
NOTE: This format is issued in lieu of U.S. BLM Form 3160-3
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or presentations as to any matter within its jurisdiction.
Example Master Plan Type 3 Bond Numbers NMB-000015 and NMB-000089

DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS".

SEP 28 2011
AV NMOCD

This action is subject to technical and
procedural review pursuant to 43 CFR 3165.9
and appeal pursuant to 43 CFR 3165.4

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

Hold C104
for Directional Survey
and "As Drilled" plat

DISTRICT I
1825 N. French Dr., Hobbs, N.M. 88240

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised July 10, 2010

DISTRICT II
1301 W. Grand Avenue, Artesia, N.M. 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate
district office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045- 35271	² Pool Code 72319/71599	³ Pool Name BLANCO MESAVERDE / BASIN DAKOTA
⁴ Property Code 7111	⁵ Property Name HILL	⁶ Well Number 3M
⁷ GRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	⁹ Elevation 6290'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	10	29N	8W		590'	SOUTH	719'	EAST	SAN JUAN

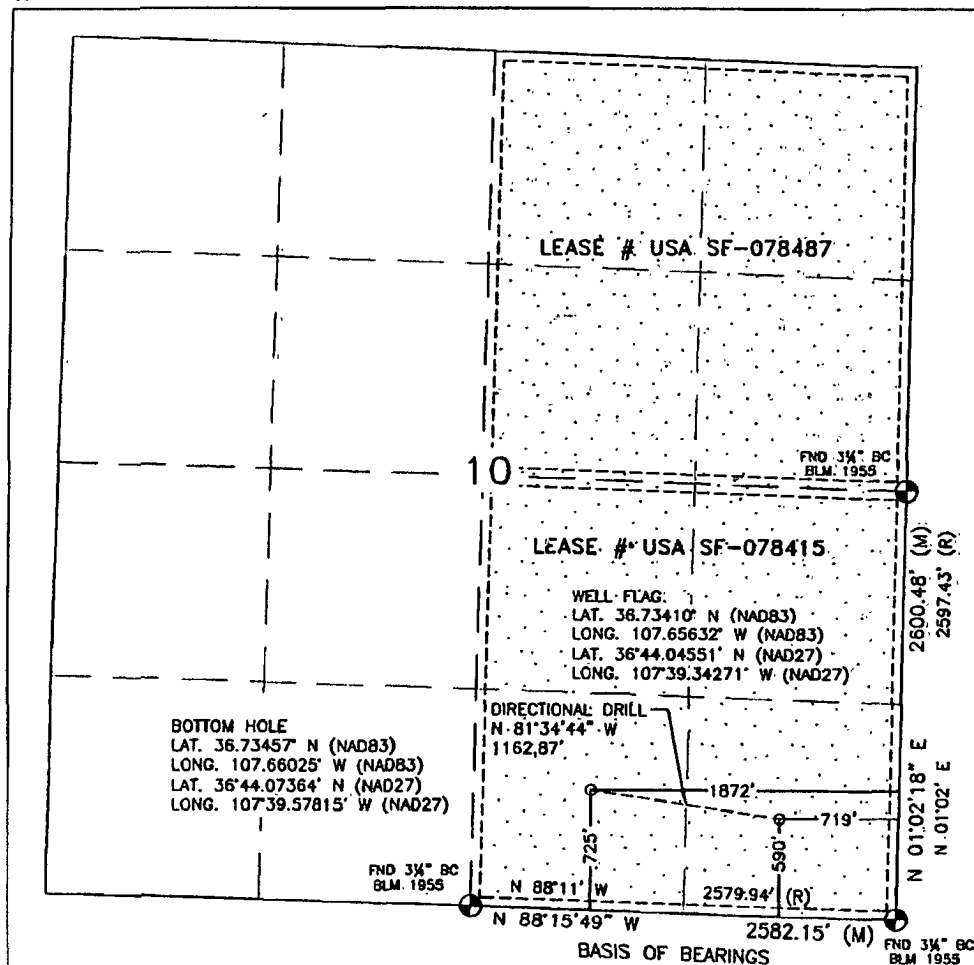
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	10	29N	8W		725'	SOUTH	1872'	EAST	SAN JUAN

¹² Dedicated Acres 320.00 ACRES - E/2	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
---	-------------------------------	----------------------------------	-------------------------

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16



¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Brandie Blakley 10-17-10
Signature Date

Brandie Blakley
Printed Name

blaklbn@conocophillips.com

E-mail Address:

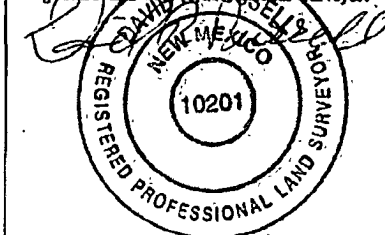
¹⁸ SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

SEPTEMBER 15, 2010

Date of Survey

Signature and Seal of Registered Professional Land Surveyor



DAVID RUSSELL

Certificate Number

10201

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

HILL 3M

DEVELOPMENT

Lease:		AFE #: WAN.CDR.9065		AFE \$: 845,243.36							
Field Name: SAN JUAN		Rig: Aztec Rig 711		State: NM	County: SAN JUAN						
Geologist:		Phone:		Geophysicist:							
Geoscientist:		Phone:		Prod. Engineer:							
Res. Engineer:		Phone:		Proj. Field Lead:							
Primary Objective (Zones): <table border="1"> <tr> <th>Zone</th> <th>Zone Name</th> </tr> <tr> <td>RON</td> <td>BLANCO MESAVERDE (PRORATED GAS)</td> </tr> <tr> <td>FRR</td> <td>BASIN DAKOTA (PRORATED GAS)</td> </tr> </table>						Zone	Zone Name	RON	BLANCO MESAVERDE (PRORATED GAS)	FRR	BASIN DAKOTA (PRORATED GAS)
Zone	Zone Name										
RON	BLANCO MESAVERDE (PRORATED GAS)										
FRR	BASIN DAKOTA (PRORATED GAS)										
Location: Surface Datum Code: NAD 27 Directional											
Latitude: 36.734094	Longitude: -107.655709	X:	Y:	Section: 10	Range: 008W						
Footage X: 719 FEL	Footage Y: 590 FSL	Elevation: 6290	(FT)	Township: 029N							
Tolerance:											
Location: Bottom Hole Datum Code: NAD 27 Directional											
Latitude: 36.734564	Longitude: -107.659639	X:	Y:	Section: 10	Range: 008W						
Footage X: 1872 FEL	Footage Y: 725 FSL	Elevation:	(FT)	Township: 029N							
Tolerance:											
Location Type: Year Round		Start Date (Est.): 1/1/2012		Completion Date:							
				Date In Operation:							
Formation Data: Assume KB = 6305 Units = FT											
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks				
Surface Casing	200	6105		☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.				
NACIMIENTO	588	5717		☐							
OJO ALAMO	1943	4362		☐							
KIRTLAND	2121	4184		☐							
FRUITLAND	2575	3730		☐			Possible Gas				
PICTURED CLIFFS	2995	3310		☐							
LEWIS	3116	3189		☐							
Intermediate Casing	3266	3039		☐			114 8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 796 cuft. Circulate cement to surface.				
HUERFANITO BENTONITE	3752	2553		☐							
CHACRA	3968	2337		☐			Est. Top Perf - 3970 (2335)				
UPPER CLIFF HOUSE	4552	1753		☐			Gas; Cliff House is dry				
MASSIVE CLIFF HOUSE	4666	1639		☐	294		Gas				
MENEFEE	4825	1480		☐							
POINT LOOKOUT	5211	1094		☐							
MANCOS	5598	707		☐							
UPPER GALLUP	6442	-137		☐							
GREENHORN	7181	-876		☐							
GRANEROS	7238	-933		☐							
TWO WELLS	7280	-975		☐	2622		Gas				
PAGUATE	7384	-1079		☐							
UPPER CUBERO	7411	-1106		☐							

PROJECT PROPOSAL - New Drill / Sidetrack

HILL 3M

DEVELOPMENT

LOWER CUBERO	7443	-1138	☐	
ENCINAL	7503	-1198	☐	TD - 30' below T/ENCN; Est. Btm Perf - 7513 (- 1208) based on offset wells
Total Depth	7533	-1228	☐	198 6-1/4" hole, 4-1/2" 11.6 ppf, L-80 LTC & BTC casing. Cement w/ 581 cuft. Circulate cement a minimum of 100' inside the previous casing string.

Reference Wells:

Reference Type	Well Name	Comments
Production	Lively 4	29N 8W 14 SE NW NW
Production	Roelofs Com 5	29N 8W 10 SW SE SE
Production	Roelofs 2E	29N 8W 15 SE NW NE
Production	Roelofs 2	29N 8W 10 NE SW SW

Logging Program:

Intermediate Logs: ☐ Log only if show ☐ GR/ILD ☐ Triple Combo

TD Logs: ☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other

Cased Hole,GR / CBL

Mudlog from 100' above top of GLLP to TD - mudlogger will call TD.

Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
----------	-------	-----------	---------	----------------	---------

ConocoPhillips or its affiliates

Planning Report

Database: EDM Central Planning Company: ConocoPhillips SJBU Project: San Juan Basin - New Mexico West Wells Site: Other Named Wells Well: Hill #3M Wellbore: Principal Wellbore Design: Plan #1	Local Co-ordinate Reference: Well Hill #3M TVD Reference: RKB @ 6305.0ft (Aws rigs) MD Reference: RKB @ 6305.0ft (Aws rigs) North Reference: True Survey Calculation Method: Minimum Curvature
--	---

Project: San Juan Basin - New Mexico West Wells, New Mexico, Directional "S"		
Map System: US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum: NAD 1927 (NADCON CONUS)		
Map Zone: New Mexico West 3003		Using geodetic scale factor

Site: Other Named Wells			
Site Position:	Northing: 2,108,178.26 ft	Latitude: 36° 47' 33.793 N	
From: Lat/Long	Easting: 643,887.63 ft	Longitude: 107° 20' 30.932 W	
Position Uncertainty: 15.0 ft	Slot Radius: 6-1/8"	Grid Convergence: 0.29 °	

Well: Hill #3M, Directional "S" Curve Short, Lewis Included			
Well Position	Northing: 2,086,513.56 ft	Latitude: 36° 44' 2.731 N	
+N/-S 0.0 ft	Easting: 552,048.23 ft	Longitude: 107° 39' 20.563 W	
+E/-W 0.0 ft	Wellhead Elevation: ft	Ground Level: 6,290.0 ft	
Position Uncertainty 3.5 ft			

Wellbore: Principal Wellbore					
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	BGGM2010	11/16/2010	(°) 9.91	(°) 63.53	(nT) 50,804

Design: Plan #1			
Audit Notes:			
Version: 1	Phase: PROTOTYPE	Tie On Depth: 0.0	
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	0.0	0.0	0.0
			Direction (°) 278.44

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Buid 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	
320.0	0.00	0.00	320.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,395.7	32.27	278.44	1,339.7	43.3	-291.8	3.00	3.00	0.00	278.44	
2,467.9	32.27	278.44	2,246.3	127.3	-858.1	0.00	0.00	0.00	0.00	
3,543.6	0.00	0.00	3,266.0	170.6	-1,149.9	3.00	-3.00	0.00	180.00	Hill #3M - ICP
7,810.6	0.00	0.00	7,533.0	170.6	-1,149.9	0.00	0.00	0.00	0.00	Hill #3M - PCP

ConocoPhillips or its affiliates

Planning Report

Database: EDM Central Planning
 Company: ConocoPhillips SJB
 Project: San Juan Basin - New Mexico West Wells
 Site: Other Named Wells
 Well: Hill #3M
 Wellbore: Principal Wellbore
 Design: Plan #1

Local Co-ordinate Reference: Well Hill #3M
 TVD Reference: RKB @ 6305.0ft (Aws rigs)
 MD Reference: RKB @ 6305.0ft (Aws rigs)
 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)
0.0	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
230.0	0.00	0.00	230.0	0.0	0.0	0.0	0.00	0.00	0.00
9 5/8" Surface Casing									
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
320.0	0.00	0.00	320.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	2.40	278.44	400.0	0.2	-1.7	1.7	3.00	3.00	0.00
500.0	5.40	278.44	499.7	1.2	-8.4	8.5	3.00	3.00	0.00
588.9	8.07	278.44	588.0	2.8	-18.7	18.9	3.00	3.00	0.00
Nacimiento									
600.0	8.40	278.44	599.0	3.0	-20.3	20.5	3.00	3.00	0.00
700.0	11.40	278.44	697.5	5.5	-37.3	37.7	3.00	3.00	0.00
800.0	14.40	278.44	795.0	8.8	-59.4	60.0	3.00	3.00	0.00
900.0	17.40	278.44	891.1	12.8	-86.4	87.4	3.00	3.00	0.00
1,000.0	20.40	278.44	985.7	17.6	-118.5	119.8	3.00	3.00	0.00
1,100.0	23.40	278.44	1,078.5	23.1	-155.4	157.1	3.00	3.00	0.00
1,200.0	26.40	278.44	1,169.2	29.2	-197.0	199.2	3.00	3.00	0.00
1,300.0	29.40	278.44	1,257.6	36.1	-243.3	246.0	3.00	3.00	0.00
1,395.7	32.27	278.44	1,339.7	43.3	-291.8	295.0	3.00	3.00	0.00
1,400.0	32.27	278.44	1,343.4	43.6	-294.1	297.3	0.00	0.00	0.00
1,500.0	32.27	278.44	1,427.9	51.5	-346.9	350.7	0.00	0.00	0.00
1,600.0	32.27	278.44	1,512.5	59.3	-399.7	404.1	0.00	0.00	0.00
1,700.0	32.27	278.44	1,597.0	67.2	-452.5	457.5	0.00	0.00	0.00
1,800.0	32.27	278.44	1,681.6	75.0	-505.3	510.9	0.00	0.00	0.00
1,900.0	32.27	278.44	1,766.1	82.8	-558.2	564.3	0.00	0.00	0.00
2,000.0	32.27	278.44	1,850.7	90.7	-611.0	617.7	0.00	0.00	0.00
2,100.0	32.27	278.44	1,935.2	98.5	-663.8	671.1	0.00	0.00	0.00
2,109.2	32.27	278.44	1,943.0	99.2	-668.6	676.0	0.00	0.00	0.00
Ojo									
2,200.0	32.27	278.44	2,019.8	106.3	-716.6	724.5	0.00	0.00	0.00
2,300.0	32.27	278.44	2,104.3	114.2	-769.4	777.8	0.00	0.00	0.00
2,319.7	32.27	278.44	2,121.0	115.7	-779.8	788.4	0.00	0.00	0.00
Kirtland									
2,400.0	32.27	278.44	2,188.9	122.0	-822.2	831.2	0.00	0.00	0.00
2,467.9	32.27	278.44	2,246.3	127.3	-858.1	867.5	0.00	0.00	0.00
2,500.0	31.31	278.44	2,273.6	129.8	-874.8	884.4	3.00	-3.00	0.00
2,600.0	28.31	278.44	2,360.3	137.1	-924.0	934.1	3.00	-3.00	0.00
2,700.0	25.31	278.44	2,449.6	143.7	-968.6	979.2	3.00	-3.00	0.00
2,800.0	22.31	278.44	2,541.1	149.7	-1,008.5	1,019.6	3.00	-3.00	0.00
2,836.5	21.21	278.44	2,575.0	151.6	-1,021.9	1,033.1	3.00	-3.00	0.00
Fruitland									
2,900.0	19.31	278.44	2,634.5	154.9	-1,043.7	1,055.1	3.00	-3.00	0.00
3,000.0	16.31	278.44	2,729.7	159.4	-1,073.9	1,085.7	3.00	-3.00	0.00
3,100.0	13.31	278.44	2,826.4	163.1	-1,099.2	1,111.2	3.00	-3.00	0.00
3,200.0	10.31	278.44	2,924.3	166.1	-1,119.4	1,131.7	3.00	-3.00	0.00
3,271.7	8.16	278.44	2,995.0	167.8	-1,130.8	1,143.2	3.00	-3.00	0.00
Pictured Cliffs									
3,300.0	7.31	278.44	3,023.1	168.4	-1,134.6	1,147.0	3.00	-3.00	0.00
3,393.4	4.50	278.44	3,116.0	169.8	-1,144.1	1,156.6	3.00	-3.00	0.00
Lewis									
3,400.0	4.31	278.44	3,122.6	169.8	-1,144.6	1,157.1	3.00	-3.00	0.00
3,500.0	1.31	278.44	3,222.4	170.6	-1,149.4	1,162.0	3.00	-3.00	0.00

ConocoPhillips or its affiliates

Planning Report

Database: EDM Central Planning
Company: ConocoPhillips SJBU
Project: San Juan Basin - New Mexico West Wells
Site: Other Named Wells
Well: Hill #3M
Wellbore: Pncipal Wellbore
Design: Plan #1

Local Co-ordinate Reference: Well Hill #3M
TVD Reference: RKB @ 6305.0ft (Aws rgs)
MD Reference: RKB @ 6305.0ft (Aws rigs)
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)
3,543.6	0.00	0.00	3,266.0	170.6	-1,149.9	1,162.5	3.00	-3.00	0.00
7" Intermediate Casing - Hill #3M - ICP									
3,600.0	0.00	0.00	3,322.4	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
3,700.0	0.00	0.00	3,422.4	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
3,800.0	0.00	0.00	3,522.4	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
3,900.0	0.00	0.00	3,622.4	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
4,000.0	0.00	0.00	3,722.4	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
4,029.6	0.00	0.00	3,752.0	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
Huerfano Bentonite									
4,100.0	0.00	0.00	3,822.4	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
4,200.0	0.00	0.00	3,922.4	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
4,245.6	0.00	0.00	3,968.0	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
Chacra									
4,300.0	0.00	0.00	4,022.4	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
4,400.0	0.00	0.00	4,122.4	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
4,500.0	0.00	0.00	4,222.4	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
4,600.0	0.00	0.00	4,322.4	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
4,700.0	0.00	0.00	4,422.4	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
4,800.0	0.00	0.00	4,522.4	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
4,829.6	0.00	0.00	4,552.0	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
Upper Cliffhouse									
4,900.0	0.00	0.00	4,622.4	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
4,943.6	0.00	0.00	4,666.0	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
Massive Cliffhouse									
5,000.0	0.00	0.00	4,722.4	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
5,100.0	0.00	0.00	4,822.4	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
5,102.6	0.00	0.00	4,825.0	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
Menefee									
5,200.0	0.00	0.00	4,922.4	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
5,300.0	0.00	0.00	5,022.4	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
5,400.0	0.00	0.00	5,122.4	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
5,488.6	0.00	0.00	5,211.0	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
Point Lookout									
5,500.0	0.00	0.00	5,222.4	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
5,600.0	0.00	0.00	5,322.4	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
5,700.0	0.00	0.00	5,422.4	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
5,800.0	0.00	0.00	5,522.4	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
5,875.6	0.00	0.00	5,598.0	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
Mancos									
5,900.0	0.00	0.00	5,622.4	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
6,000.0	0.00	0.00	5,722.4	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
6,100.0	0.00	0.00	5,822.4	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
6,200.0	0.00	0.00	5,922.4	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
6,300.0	0.00	0.00	6,022.4	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
6,400.0	0.00	0.00	6,122.4	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
6,500.0	0.00	0.00	6,222.4	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
6,600.0	0.00	0.00	6,322.4	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
6,700.0	0.00	0.00	6,422.4	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
6,719.6	0.00	0.00	6,442.0	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
Upper Gallup									
6,800.0	0.00	0.00	6,522.4	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
6,900.0	0.00	0.00	6,622.4	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
7,000.0	0.00	0.00	6,722.4	170.6	-1,149.9	1,162.5	0.00	0.00	0.00

ConocoPhillips or its affiliates

Planning Report

Database: EDM Central Planning
Company: ConocoPhillips SJB
Project: San Juan Basin - New Mexico West Wells
Site: Other Named Wells
Well: Hill #3M
Wellbore: Principal Wellbore
Design: Plan #1

Local Co-ordinate Reference: Well Hill #3M
TVD Reference: RKB @ 6305 0ft (Aws rgs)
MD Reference: RKB @ 6305 0ft (Aws rgs)
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)
7,100.0	0.00	0.00	6,822.4	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
7,200.0	0.00	0.00	6,922.4	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
7,300.0	0.00	0.00	7,022.4	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
7,400.0	0.00	0.00	7,122.4	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
7,458.6	0.00	0.00	7,181.0	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
Greenhorn									
7,500.0	0.00	0.00	7,222.4	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
7,515.6	0.00	0.00	7,238.0	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
Graneros									
7,557.6	0.00	0.00	7,280.0	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
Two Wells									
7,600.0	0.00	0.00	7,322.4	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
7,661.6	0.00	0.00	7,384.0	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
Paguate									
7,688.6	0.00	0.00	7,411.0	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
Upper Cubero									
7,700.0	0.00	0.00	7,422.4	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
7,720.6	0.00	0.00	7,443.0	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
Lower Cubero									
7,780.6	0.00	0.00	7,503.0	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
Encinal									
7,800.0	0.00	0.00	7,522.4	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
7,810.6	0.00	0.00	7,533.0	170.6	-1,149.9	1,162.5	0.00	0.00	0.00
Total Depth - 4 1/2" Production Casing - Hill #3M - PCP									

Targets

Target Name	hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Hill #3M - PCP	- plan hits target center	0.00	0.00	7,533.0	170.6	-1,149.9	2,086,682.05	550,898.10	36° 44' 4.418 N	107° 39' 34.689 W
	- Circle (radius 100.0)									
Hill #3M - ICP	- plan hits target center	0.00	0.00	3,266.0	170.6	-1,149.9	2,086,682.05	550,898.10	36° 44' 4.418 N	107° 39' 34.689 W
	- Circle (radius 100.0)									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
7,810.6	7,533.0	4 1/2" Production Casing	4-1/2	6-1/4
230.0	230.0	9 5/8" Surface Casing	9-5/8	12-1/4
3,543.6	3,266.0	7" Intermediate Casing	7	8-3/4

ConocoPhillips or its affiliates

Planning Report

Database: EDM Central Planning
Company: ConocoPhillips SJB
Project: San Juan Basin - New Mexico West Wells
Site: Other Named Wells
Well: Hill #3M
Wellbore: Principal Wellbore
Design: Plan #1

Local Co-ordinate Reference: Well Hill #3M
TVD Reference: RKB @ 6305.0ft (Aws rgs)
MD Reference: RKB @ 6305.0ft (Aws rgs)
North Reference: True
Survey Calculation Method: Minimum Curvature

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
2,109.2	1,943.0	Ojo		0.00		
6,719.6	6,442.0	Upper Gallup		0.00		
5,488.6	5,211.0	Point Lookout		0.00		
3,393.4	3,116.0	Lewis		0.00		
7,780.6	7,503.0	Encinal		0.00		
4,943.6	4,666.0	Massive Cliffhouse		0.00		
588.9	588.0	Nacimiento		0.00		
3,271.7	2,995.0	Pictured Cliffs		0.00		
5,875.6	5,598.0	Mancos		0.00		
7,515.6	7,238.0	Graneros		0.00		
2,836.5	2,575.0	Fruitland		0.00		
7,661.6	7,384.0	Paguate		0.00		
7,688.6	7,411.0	Upper Cubero		0.00		
4,245.6	3,968.0	Chacra		0.00		
2,319.7	2,121.0	Kirtland		0.00		
4,029.6	3,752.0	Huerfano Bentonite		0.00		
4,829.6	4,552.0	Upper Cliffhouse		0.00		
7,557.6	7,280.0	Two Wells		0.00		
7,810.6	7,533.0	Total Depth		0.00		
7,720.6	7,443.0	Lower Cubero		0.00		
5,102.6	4,825.0	Menefee		0.00		
7,458.6	7,181.0	Greenhorn		0.00		

REFERENCE INFORMATION

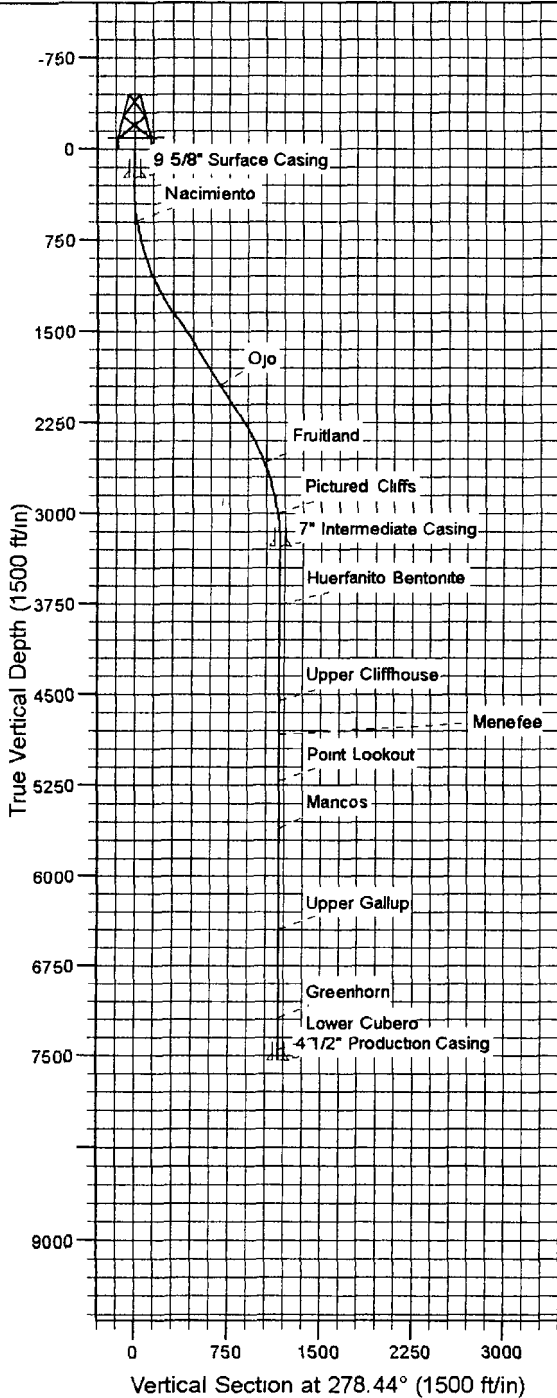
Project: San Juan Basin - New Mexico West W
 Site: Other Named Wells
 Well: Hill #3M
 Wellbore: Principal Wellbore
 Design: Plan #1



RKB @ 6305 0ft (Aws rigs)
 Ground Elevation 6290.0
 Reference Lat: 36° 44' 2.731 N
 Reference Long: 107° 39' 20.563 W

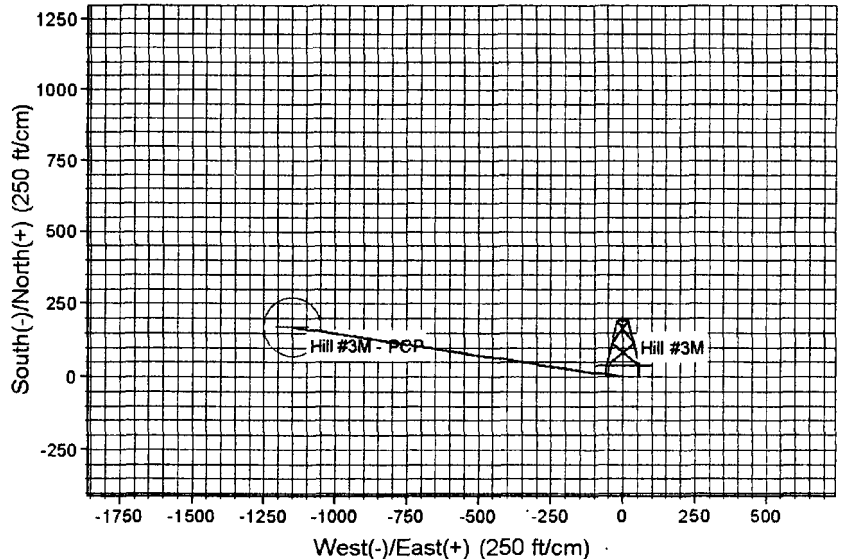
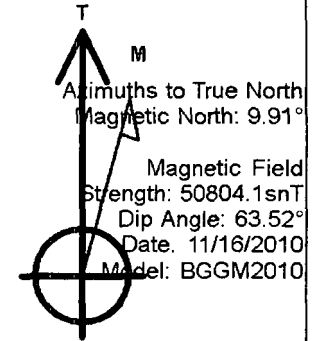
SECTION DETAILS

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	320.0	0.00	0.00	320.0	0.0	0.0	0.00	0.00	0.0	
3	1395.7	32.27	278.44	1339.7	43.3	-291.8	3.00	278.44	295.0	
4	2467.9	32.27	278.44	2246.3	127.3	-858.1	0.00	0.00	867.5	
5	3543.6	0.00	0.00	3266.0	170.6	-1149.9	3.00	180.00	1162.5	Hill #3M - ICP
6	7810.6	0.00	0.00	7533.0	170.6	-1149.9	0.00	0.00	1162.5	Hill #3M - PCP



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
588.0	588.9	Nacimiento
1943.0	2109.2	Ojo
2121.0	2319.7	Kirtland
2575.0	2836.5	Fruitland
2995.0	3271.7	Pictured Cliffs
3116.0	3393.4	Lewis
3752.0	4029.6	Huerfano Bentonite
3968.0	4245.6	Chacra
4552.0	4829.6	Upper Cliffhouse
4666.0	4943.6	Massive Cliffhouse
4825.0	5102.6	Menefee
5211.0	5488.6	Point Lookout
5598.0	5875.6	Mancos
6442.0	6719.6	Upper Gallup
7181.0	7458.6	Greenhorn
7238.0	7515.6	Graneros
7280.0	7557.6	Two Wells
7384.0	7661.6	Paguate
7411.0	7688.6	Upper Cubero
7443.0	7720.6	Lower Cubero
7503.0	7780.6	Encinal
7533.0	7810.6	Total Depth



BURLINGTON RESOURCES OIL & GAS COMPANY LP

HILL #3M

590' FSL & 719' FEL

LOCATED IN THE SE/4 SE/4 OF SECTION 10,

T29N, R8W, N.M.P.M.,

SAN JUAN COUNTY, NEW MEXICO

DIRECTIONS

- 1) FROM POST OFFICE IN BLANCO, TRAVEL EAST ON HIGHWAY 64 FOR 10.6 MILES.
- 2) TURN LEFT ON A DIRT ROAD AND TRAVEL 0.3 MILES TO THE FLAGGED ACCESS ON THE LEFT.
- 3) FOLLOW RED FLAGGING 31' TO PROPOSED WELL PAD

WELL FLAG LOCATED AT LAT. 36.73410° N, LONG. 107.65632° W (NAD 83).

