

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural
Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-101
Revised July 18, 2013

Permit 187085

OIL CONS. DIV DIST. 3
JUN 5 - 2014

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address BURLINGTON RESOURCES OIL & GAS COMPANY LP 3401 E. 30TH STREET FARMINGTON, NM 87402		2. OGRID Number 14538
4. Property Code 6823		3. API Number 30-045-3552
5. Property Name BEAVER LODGE COM		6. Well No. 001M

7. Surface Location

UL - Lot I	Section 32	Township 30N	Range 08W	Lot Idn	Feet From 2149	N/S Line S	Feet From 544	E/W Line E	County SAN JUAN
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8. Proposed Bottom Hole Location

UL - Lot P	Section 32	Township 30N	Range 08W	Lot Idn P	Feet From 1116	N/S Line S	Feet From 760	E/W Line E	County San Juan
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9. Pool Information

BLANCO-MESAVERDE (PRORATED GAS)	72319
BASIN DAKOTA (PRORATED GAS)	71599

Additional Well Information

11. Work Type New Well	12. Well Type GAS	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 6217
16. Multiple Y	17. Proposed Depth 7478	18. Formation Dakota Formation	19. Contractor	20. Spud Date
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☐ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	12.25	9.625	32.3	200	121	0
Int1	8.75	7	23	3574	850	0
Prod	6.25	4.5	11.6	7478	512	3474

Casing/Cement Program: Additional Comments

This is a Type 3 as indicated in the BR/COPC Master Drilling Plan. Cement volumes are indicated in cubic feet instead of sacks of cement. The Production casing cement will be circulated a minimum of 100' inside the Intermediate casing string. The C-144 and DHC will be submitted after the APD is approved.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	2000	2000	SCHAFFER

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.
I further certify I have complied with 19.15.14.9 (A) NMAC ☐ and/or 19.15.14.9 (B) NMAC ☐ if applicable.

Signature: Arleen White Hold C104
for Directional Survey

Printed Name: Arleen White and "As Drilled" plat

Title: Staff Regulatory Tech

Email Address: arleen.r.white@conocophillips.com

Date: 6/3/14

Phone: 366-9517

OIL CONSERVATION DIVISION

Charles Herrin 6-11-2014
SUPERVISOR DISTRICT # 3

Approved By: SUPERVISOR DISTRICT # 3

Title:

Approved Date:

Expiration Date:

Conditions of Approval Attached

Hold C104
for Directional Survey
and "As Drilled" plat

1625 N. French Dr., Hobbs, N.M. 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

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Phone: (505) 478-3460 Fax: (505) 478-3462

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, N.M. 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35552	² Pool Code 71599 / 72319	³ Pool Name BASIN DAKOTA / BLANCO MESA VERDE
⁴ Property Code 6823	⁵ Property Name BEAVER LODGE COM	⁶ Well Number 1M
⁷ GRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	⁹ Elevation 6217

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
I	32	30 N	8 W		2149	SOUTH	544	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
P	32	30 N	8 W		1116	SOUTH	760	EAST	SAN JUAN

¹³ Dedicated Acres 320 (MV) E 1/2 320 (DK) S 1/2	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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

18

S 89°07'10" W 2619.94'

S 89°13'16" W 2620.65'

BEARINGS & DISTANCES SHOWN ARE REFERENCED TO THE NEW MEXICO COORDINATE SYSTEM, WEST ZONE, NAD 83, UNLESS OTHERWISE NOTED.

E-5843-1

E-8383-4

LEGEND:

- = SURFACE LOCATION
- = BOTTOM HOLE LOCATION
- ⊙ = FOUND 1955 B.L.M. BRASS CAP
- ⊕ = FOUND 1956 B.L.M. BRASS CAP
- ⚙ = EXISTING WELL

G.N.=GRID NORTH
T.N.=TRUE NORTH
CONVERGENCE AT SURFACE LOCATION

00°05'06"

SECTION 32

SURFACE

LAT: 36.7670736° N
LONG: 107.6913464° W
NAD 83

LAT: 36°46.02409' N
LONG: 107°41.44401' W
NAD 27

B-10938-36

E-292-19

E-1641-3

S 10°35'04" W 1060.10'

EPNG COM 1A ⚙

B-10037-86

E-3149-5

544'

2149'

760'

1116'

BOTTOM HOLE

LAT: 36.7642120° N
LONG: 107.6920165° W
NAD 83

LAT: 36°45.85240' N
LONG: 107°41.48421' W
NAD 27

E-2869

B-10938-52

E-5383

S 87°40'26" W 2567.99'

S 87°37'25" W 2568.50'

N 2°17'47" W 2666.01'

N 2°16'21" W 2664.72'

N 2°09'13" W 2593.13'

N 2°09'19" W 2599.57'

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 pooling agreement or a compulsory pooling order heretofore entered by the division.

Aileen White 6/3/14

Signature	Date
Arleen White	
Printed Name	
arleen.r.white@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.

01/17/14

Date of Survey _____

Signature and Seal of Professional Secretary

17078

Certificate Number

ConocoPhillips SJB

San Juan Basin - New Mexico West Wells

Other Named Wells

Beaver Lodge Com 1M

Wellbore #1

Plan: Design #1

Standard Planning Report

27 February, 2014

ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Beaver Lodge Com 1M
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6232.0usft
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6232.0usft
Site:	Other Named Wells	North Reference:	Grid
Well:	Beaver Lodge Com 1M	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	San Juan Basin - New Mexico West Wells, New Mexico, Directional "S"		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Ground 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 usft
From:	Lat/Long	Easting:	643,887.63 usft
Position Uncertainty:	15.0 usft	Slot Radius:	6-1/8"
		Latitude:	36° 47' 33.793 N
		Longitude:	107° 20' 30.932 W
		Grid Convergence:	0.29 °

Well	Beaver Lodge Com 1M		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	2.5 usft	Wellhead Elevation:	usft
		Latitude:	36° 46' 1.445 N
		Longitude:	107° 41' 26.641 W
		Ground Level:	6,217.0 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
			(°)
	BGGM2013	1/27/2014	9.59
			Dip Angle
			(°)
			Field Strength
			(nT)
			50,435

Design	Design #1		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth:
			0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			190.58

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100usft)	(°/100usft)	(°/100usft)		
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,260.0	24.00	190.58	1,232.2	-194.8	-36.4	2.50	2.50	0.00	190.58	
2,973.3	24.00	190.58	2,797.4	-879.8	-164.4	0.00	0.00	0.00	0.00	
3,773.3	0.00	0.00	3,574.2	-1,042.1	-194.7	3.00	-3.00	0.00	180.00	
7,677.1	0.00	0.00	7,478.0	-1,042.1	-194.7	0.00	0.00	0.00	0.00	Beaver Lodge Com 11

ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Beaver Lodge Com 1M
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6232.0usft
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6232.0usft
Site:	Other Named Wells	North Reference:	Grid
Well:	Beaver Lodge Com 1M	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
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
Surface- 9-5/8"									
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
399.0	2.48	190.58	399.0	-2.1	-0.4	2.1	2.50	2.50	0.00
NACIMIENTO									
400.0	2.50	190.58	400.0	-2.1	-0.4	2.2	2.50	2.50	0.00
500.0	5.00	190.58	499.7	-8.6	-1.6	8.7	2.50	2.50	0.00
600.0	7.50	190.58	599.1	-19.3	-3.6	19.6	2.50	2.50	0.00
700.0	10.00	190.58	698.0	-34.2	-6.4	34.8	2.50	2.50	0.00
800.0	12.50	190.58	796.0	-53.4	-10.0	54.3	2.50	2.50	0.00
900.0	15.00	190.58	893.2	-76.8	-14.3	78.1	2.50	2.50	0.00
1,000.0	17.50	190.58	989.2	-104.3	-19.5	106.1	2.50	2.50	0.00
1,100.0	20.00	190.58	1,083.9	-135.9	-25.4	138.2	2.50	2.50	0.00
1,200.0	22.50	190.58	1,177.0	-171.5	-32.0	174.5	2.50	2.50	0.00
1,260.0	24.00	190.58	1,232.2	-194.8	-36.4	198.1	2.50	2.50	0.00
1,300.0	24.00	190.58	1,268.7	-210.8	-39.4	214.4	0.00	0.00	0.00
1,400.0	24.00	190.58	1,360.1	-250.7	-46.9	255.1	0.00	0.00	0.00
1,500.0	24.00	190.58	1,451.4	-290.7	-54.3	295.8	0.00	0.00	0.00
1,600.0	24.00	190.58	1,542.8	-330.7	-61.8	336.4	0.00	0.00	0.00
1,700.0	24.00	190.58	1,634.1	-370.7	-69.3	377.1	0.00	0.00	0.00
1,800.0	24.00	190.58	1,725.5	-410.7	-76.7	417.8	0.00	0.00	0.00
1,873.9	24.00	190.58	1,793.0	-440.2	-82.3	447.8	0.00	0.00	0.00
OJO ALAMO									
1,900.0	24.00	190.58	1,816.8	-450.7	-84.2	458.5	0.00	0.00	0.00
2,000.0	24.00	190.58	1,908.2	-490.6	-91.7	499.1	0.00	0.00	0.00
2,042.5	24.00	190.58	1,947.0	-507.6	-94.8	516.4	0.00	0.00	0.00
KIRTLAND									
2,100.0	24.00	190.58	1,999.5	-530.6	-99.1	539.8	0.00	0.00	0.00
2,200.0	24.00	190.58	2,090.9	-570.6	-106.6	580.5	0.00	0.00	0.00
2,300.0	24.00	190.58	2,182.3	-610.6	-114.1	621.1	0.00	0.00	0.00
2,400.0	24.00	190.58	2,273.6	-650.6	-121.6	661.8	0.00	0.00	0.00
2,500.0	24.00	190.58	2,365.0	-690.5	-129.0	702.5	0.00	0.00	0.00
2,544.9	24.00	190.58	2,406.0	-708.5	-132.4	720.8	0.00	0.00	0.00
FRUITLAND									
2,600.0	24.00	190.58	2,456.3	-730.5	-136.5	743.2	0.00	0.00	0.00
2,700.0	24.00	190.58	2,547.7	-770.5	-144.0	783.8	0.00	0.00	0.00
2,800.0	24.00	190.58	2,639.0	-810.5	-151.4	824.5	0.00	0.00	0.00
2,900.0	24.00	190.58	2,730.4	-850.5	-158.9	865.2	0.00	0.00	0.00
2,973.3	24.00	190.58	2,797.4	-879.8	-164.4	895.0	0.00	0.00	0.00
3,000.0	23.20	190.58	2,821.8	-890.3	-166.4	905.7	3.00	-3.00	0.00
3,100.0	20.20	190.58	2,914.7	-926.6	-173.1	942.7	3.00	-3.00	0.00
3,104.6	20.06	190.58	2,919.0	-928.2	-173.4	944.2	3.00	-3.00	0.00
PICTURED CLIFFS									
3,200.0	17.20	190.58	3,009.4	-958.1	-179.0	974.7	3.00	-3.00	0.00
3,222.5	16.52	190.58	3,031.0	-964.6	-180.2	981.3	3.00	-3.00	0.00
LEWIS									
3,300.0	14.20	190.58	3,105.7	-984.7	-184.0	1,001.8	3.00	-3.00	0.00
3,400.0	11.20	190.58	3,203.2	-1,006.3	-188.0	1,023.8	3.00	-3.00	0.00
3,500.0	8.20	190.58	3,301.8	-1,022.9	-191.1	1,040.6	3.00	-3.00	0.00
3,600.0	5.20	190.58	3,401.1	-1,034.4	-193.3	1,052.3	3.00	-3.00	0.00
3,700.0	2.20	190.58	3,500.9	-1,040.7	-194.5	1,058.7	3.00	-3.00	0.00

ConocoPhillips
Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Beaver Lodge Com 1M
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6232.0usft
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Site:	Other Named Wells	North Reference:	Grid
Well:	Beaver Lodge Com 1M	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,773.1	0.01	190.58	3,574.0	-1,042.1	-194.7	1,060.1	3.00	-3.00	0.00
Intermediate - 7"									
3,773.3	0.00	0.00	3,574.2	-1,042.1	-194.7	1,060.1	3.00	-3.00	0.00
3,800.0	0.00	0.00	3,600.9	-1,042.1	-194.7	1,060.1	0.00	0.00	0.00
3,873.1	0.00	0.00	3,674.0	-1,042.1	-194.7	1,060.1	0.00	0.00	0.00
HUERFANITO BENTONITE									
3,900.0	0.00	0.00	3,700.9	-1,042.1	-194.7	1,060.1	0.00	0.00	0.00
4,000.0	0.00	0.00	3,800.9	-1,042.1	-194.7	1,060.1	0.00	0.00	0.00
4,089.1	0.00	0.00	3,890.0	-1,042.1	-194.7	1,060.1	0.00	0.00	0.00
CHACRA									
4,100.0	0.00	0.00	3,900.9	-1,042.1	-194.7	1,060.1	0.00	0.00	0.00
4,200.0	0.00	0.00	4,000.9	-1,042.1	-194.7	1,060.1	0.00	0.00	0.00
4,300.0	0.00	0.00	4,100.9	-1,042.1	-194.7	1,060.1	0.00	0.00	0.00
4,400.0	0.00	0.00	4,200.9	-1,042.1	-194.7	1,060.1	0.00	0.00	0.00
4,500.0	0.00	0.00	4,300.9	-1,042.1	-194.7	1,060.1	0.00	0.00	0.00
4,600.0	0.00	0.00	4,400.9	-1,042.1	-194.7	1,060.1	0.00	0.00	0.00
4,700.0	0.00	0.00	4,500.9	-1,042.1	-194.7	1,060.1	0.00	0.00	0.00
4,744.1	0.00	0.00	4,545.0	-1,042.1	-194.7	1,060.1	0.00	0.00	0.00
MASSIVE CLIFF HOUSE									
4,800.0	0.00	0.00	4,600.9	-1,042.1	-194.7	1,060.1	0.00	0.00	0.00
4,900.0	0.00	0.00	4,700.9	-1,042.1	-194.7	1,060.1	0.00	0.00	0.00
4,906.1	0.00	0.00	4,707.0	-1,042.1	-194.7	1,060.1	0.00	0.00	0.00
MENESEE									
5,000.0	0.00	0.00	4,800.9	-1,042.1	-194.7	1,060.1	0.00	0.00	0.00
5,100.0	0.00	0.00	4,900.9	-1,042.1	-194.7	1,060.1	0.00	0.00	0.00
5,200.0	0.00	0.00	5,000.9	-1,042.1	-194.7	1,060.1	0.00	0.00	0.00
5,287.1	0.00	0.00	5,088.0	-1,042.1	-194.7	1,060.1	0.00	0.00	0.00
POINT LOOKOUT									
5,300.0	0.00	0.00	5,100.9	-1,042.1	-194.7	1,060.1	0.00	0.00	0.00
5,400.0	0.00	0.00	5,200.9	-1,042.1	-194.7	1,060.1	0.00	0.00	0.00
5,500.0	0.00	0.00	5,300.9	-1,042.1	-194.7	1,060.1	0.00	0.00	0.00
5,600.0	0.00	0.00	5,400.9	-1,042.1	-194.7	1,060.1	0.00	0.00	0.00
5,679.1	0.00	0.00	5,480.0	-1,042.1	-194.7	1,060.1	0.00	0.00	0.00
MANCOS									
5,700.0	0.00	0.00	5,500.9	-1,042.1	-194.7	1,060.1	0.00	0.00	0.00
5,800.0	0.00	0.00	5,600.9	-1,042.1	-194.7	1,060.1	0.00	0.00	0.00
5,900.0	0.00	0.00	5,700.9	-1,042.1	-194.7	1,060.1	0.00	0.00	0.00
6,000.0	0.00	0.00	5,800.9	-1,042.1	-194.7	1,060.1	0.00	0.00	0.00
6,100.0	0.00	0.00	5,900.9	-1,042.1	-194.7	1,060.1	0.00	0.00	0.00
6,200.0	0.00	0.00	6,000.9	-1,042.1	-194.7	1,060.1	0.00	0.00	0.00
6,300.0	0.00	0.00	6,100.9	-1,042.1	-194.7	1,060.1	0.00	0.00	0.00
6,400.0	0.00	0.00	6,200.9	-1,042.1	-194.7	1,060.1	0.00	0.00	0.00
6,500.0	0.00	0.00	6,300.9	-1,042.1	-194.7	1,060.1	0.00	0.00	0.00
6,574.1	0.00	0.00	6,375.0	-1,042.1	-194.7	1,060.1	0.00	0.00	0.00
UPPER GALLUP									
6,600.0	0.00	0.00	6,400.9	-1,042.1	-194.7	1,060.1	0.00	0.00	0.00
6,700.0	0.00	0.00	6,500.9	-1,042.1	-194.7	1,060.1	0.00	0.00	0.00
6,800.0	0.00	0.00	6,600.9	-1,042.1	-194.7	1,060.1	0.00	0.00	0.00
6,900.0	0.00	0.00	6,700.9	-1,042.1	-194.7	1,060.1	0.00	0.00	0.00
7,000.0	0.00	0.00	6,800.9	-1,042.1	-194.7	1,060.1	0.00	0.00	0.00
7,100.0	0.00	0.00	6,900.9	-1,042.1	-194.7	1,060.1	0.00	0.00	0.00
7,200.0	0.00	0.00	7,000.9	-1,042.1	-194.7	1,060.1	0.00	0.00	0.00

ConocoPhillips
Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Beaver Lodge Com 1M
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6232.0usft
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6232.0usft
Site:	Other Named Wells	North Reference:	Grid
Well:	Beaver Lodge Com 1M	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
7,300.0	0.00	0.00	7,100.9	-1,042.1	-194.7	1,060.1	0.00	0.00	0.00	
7,322.1	0.00	0.00	7,123.0	-1,042.1	-194.7	1,060.1	0.00	0.00	0.00	
GREENHORN										
7,376.1	0.00	0.00	7,177.0	-1,042.1	-194.7	1,060.1	0.00	0.00	0.00	
GRANEROS										
7,400.0	0.00	0.00	7,200.9	-1,042.1	-194.7	1,060.1	0.00	0.00	0.00	
7,417.1	0.00	0.00	7,218.0	-1,042.1	-194.7	1,060.1	0.00	0.00	0.00	
TWO WELLS										
7,500.0	0.00	0.00	7,300.9	-1,042.1	-194.7	1,060.1	0.00	0.00	0.00	
7,521.1	0.00	0.00	7,322.0	-1,042.1	-194.7	1,060.1	0.00	0.00	0.00	
PAGUATE										
7,539.1	0.00	0.00	7,340.0	-1,042.1	-194.7	1,060.1	0.00	0.00	0.00	
UPPER CUBERO										
7,570.1	0.00	0.00	7,371.0	-1,042.1	-194.7	1,060.1	0.00	0.00	0.00	
LOWER CUBERO										
7,600.0	0.00	0.00	7,400.9	-1,042.1	-194.7	1,060.1	0.00	0.00	0.00	
7,647.1	0.00	0.00	7,448.0	-1,042.1	-194.7	1,060.1	0.00	0.00	0.00	
ENCINAL										
7,677.1	0.00	0.00	7,478.0	-1,042.1	-194.7	1,060.1	0.00	0.00	0.00	
Production - 4-1/2"										

Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
- hit/miss target										
- Shape										
Beaver Lodge Com 1M	0.00	0.00	7,478.0	-1,042.1	-194.7	2,097,459.23	541,573.31	36° 45' 51.144 N	107° 41' 29.053 W	
- plan hits target center										
- Point										

Casing Points						
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")		
200.0	200.0	Surface- 9-5/8"	9-5/8	12-1/4		
3,773.1	3,574.0	Intermediate - 7"	7	8-3/4		
7,677.1	7,478.0	Production - 4-1/2"	4-1/2	6-1/4		

ConocoPhillips
Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Beaver Lodge Com 1M
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6232.0usft
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6232.0usft
Site:	Other Named Wells	North Reference:	Grid
Well:	Beaver Lodge Com 1M	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
5,679.1	5,480.0	MANCOS		0.00		
7,570.1	7,371.0	LOWER CUBERO		0.00		
3,104.6	2,919.0	PICTURED CLIFFS		0.00		
2,042.5	1,947.0	KIRTLAND		0.00		
4,744.1	4,545.0	MASSIVE CLIFF HOUSE		0.00		
7,376.1	7,177.0	GRANEROS		0.00		
4,906.1	4,707.0	MENEFEE		0.00		
7,539.1	7,340.0	UPPER CUBERO		0.00		
399.0	399.0	NACIMIENTO		0.00		
3,222.5	3,031.0	LEWIS		0.00		
3,873.1	3,674.0	HUERFANITO BENTONITE		0.00		
1,873.9	1,793.0	OJO ALAMO		0.00		
4,089.1	3,890.0	CHACRA		0.00		
7,521.1	7,322.0	PAGUATE		0.00		
7,417.1	7,218.0	TWO WELLS		0.00		
7,647.1	7,448.0	ENCINAL		0.00		
6,574.1	6,375.0	UPPER GALLUP		0.00		
5,287.1	5,088.0	POINT LOOKOUT		0.00		
7,322.1	7,123.0	GREENHORN		0.00		
2,544.9	2,406.0	FRUITLAND		0.00		

REFERENCE INFORMATION

WELL @ 6232.0usft
Ground Elevation 6217.0
Reference Lat: 36° 46' 1.445 N
Reference Long: 107° 41' 26.641 W

Project: San Juan Basin - New Mexico West V
Site: Other Named Wells
Well: Beaver Lodge Com 1M
Wellbore: Wellbore #1
Design: Design #1

ConocoPhillips

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	300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.0	
3	1260.0	24.00	190.58	1232.2	-194.8	-36.4	2.50	190.58	198.1	
4	2973.3	24.00	190.58	2797.4	-879.8	-164.4	0.00	0.00	895.0	
5	3773.3	0.00	0.00	3574.2	-1042.1	-194.7	3.00	180.00	1060.1	
6	7677.1	0.00	0.00	7478.0	-1042.1	-194.7	0.00	0.00	1060.1	Beaver Lodge Com 1M BHL

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
399.0	399.0	NACIMIENTO
1793.0	1873.9	OJO ALAMO
1947.0	2042.5	KIRTLAND
2406.0	2544.9	FRUITLAND
2919.0	3104.6	PICTURED CLIFFS
3031.0	3222.5	LEWIS
3674.0	3873.1	HUERFANITO BENTONITE
3890.0	4089.1	CHACRA
4545.0	4744.1	MASSIVE CLIFF HOUSE
4707.0	4906.1	MENEFEE
5088.0	5287.1	POINT LOOKOUT
5480.0	5679.1	MANCOS
6375.0	6574.1	UPPER GALLUP
7123.0	7322.1	GREENHORN
7177.0	7376.1	GRANEROS
7218.0	7417.1	TWO WELLS
7322.0	7521.1	PAGUATE
7340.0	7539.1	UPPER CUBERO
7371.0	7570.1	LOWER CUBERO
7448.0	7647.1	ENCINAL

Azimuths to Grid North
True North: -0.09°
Magnetic North: 9.51°

Magnetic Field
Strength: 50435.1snT
Dip Angle: 63.45°
Date: 1/27/2014
Model: BGGM2013

