

Submit 3 Copies To Appropriate District Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Jun 19, 2008

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

WELL API NO. 30-045-35014
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No. E-1193-8
7. Lease Name or Unit Agreement Name Delhi Com
8. Well Number 1B
9. OGRID Number 14538
10. Pool name or Wildcat Blanco Mesaverde/ Dakota

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☐ Gas Well ☒ Other
2. Name of Operator Burlington Resources Oil Gas Company LP
3. Address of Operator P.O. Box 4289, Farmington, NM 87499-4289
4. Well Location Unit Letter F : 2119 feet from the North line and 1556 feet from the West line Section 16 Township 30N Range 8W NMPM San Juan County
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 5783' GR

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☒
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☒

OTHER: 7" casing setting depth change ☒ OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Burlington would like to change the setting depth of the 7" casing from 4200' to 3754' (TVD). This change is necessary since we have decided to also complete the Lewis Shale interval in the Mesaverde Interval and don't want to perforate the well in a deviated portion of the casing. Attached is a new directional plan and drilling prognosis that covers the changes making.

Steve Hayden was called 11/18/09 and gave verbal approval for the change.

RCVD NOV 20 '09
OIL CONS. DIV.

DIST. 3

Spud Date:

Rig Released Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Patsy Clugston TITLE Sr. Regulatory Specialist DATE 11/18/09

Type or print name Patsy Clugston E-mail address: clugspl@conocophillips.com PHONE: 505-326-9518

For State Use Only

APPROVED BY: Kelly G. Polt TITLE Deputy Oil & Gas Inspector, DATE NOV 24 2009
Conditions of Approval (if any): District #3



Scientific Drilling
Directional Drilling Operations

ConocoPhillips

**SJB (NM West)
SEC 13-T30N-R8W
Delhi COM #1B**

Original Hole

Plan: Plan #2

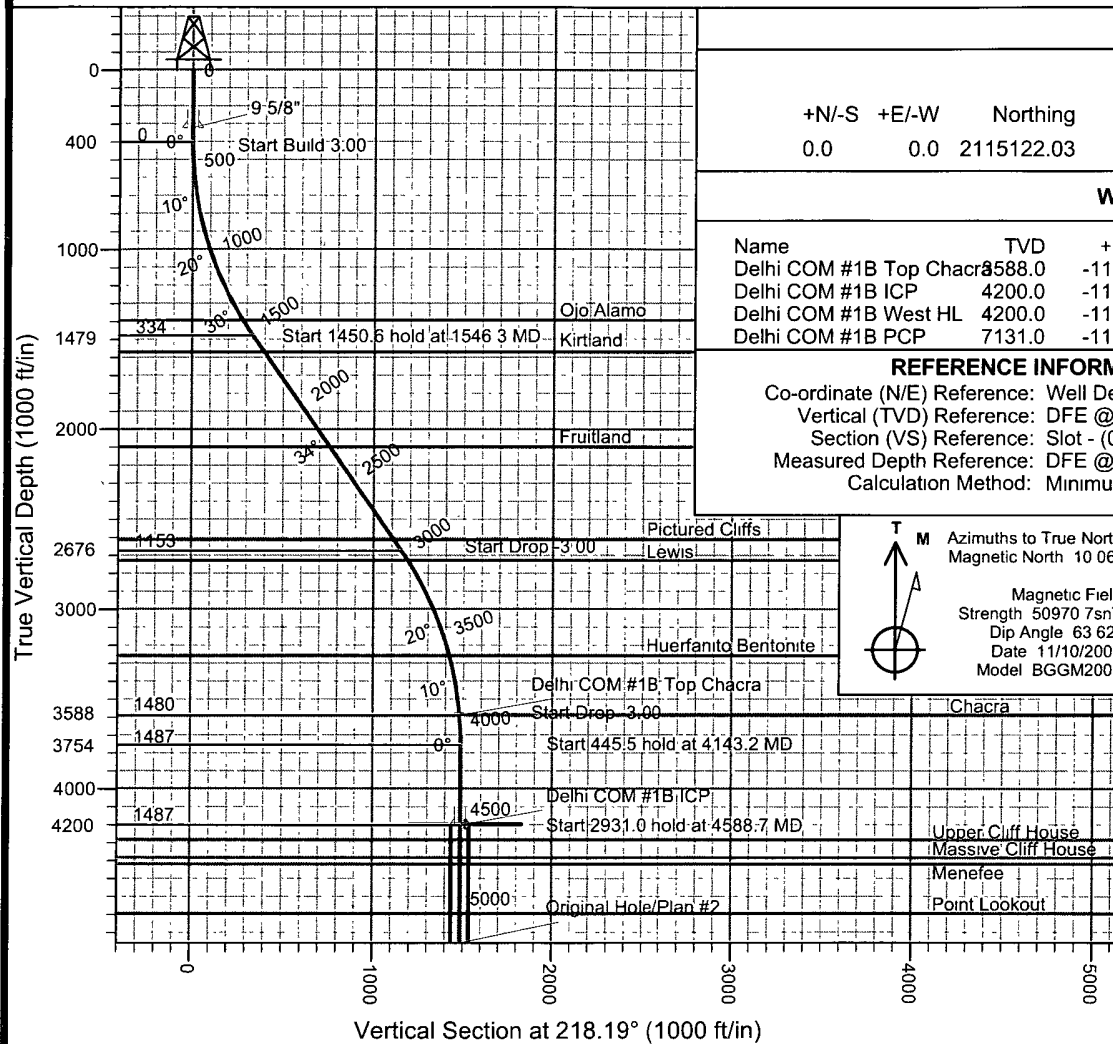
Standard Planning Report

16 November, 2009


ConocoPhillips



Project: SJB (NM West)
Site: SEC 13-T30N-R8W
Well: Delhi COM #1B
Wellbore: Original Hole
Design: Plan #2



WELL DETAILS: Delhi COM #1B

Ground Level: 5783.0

DFE @ 5798.0ft (AWS 730)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	2115122.03	543817.67	36° 48' 45.774 N	107° 41' 1.129 W

WELLBORE TARGET DETAILS (LAT/LONG)

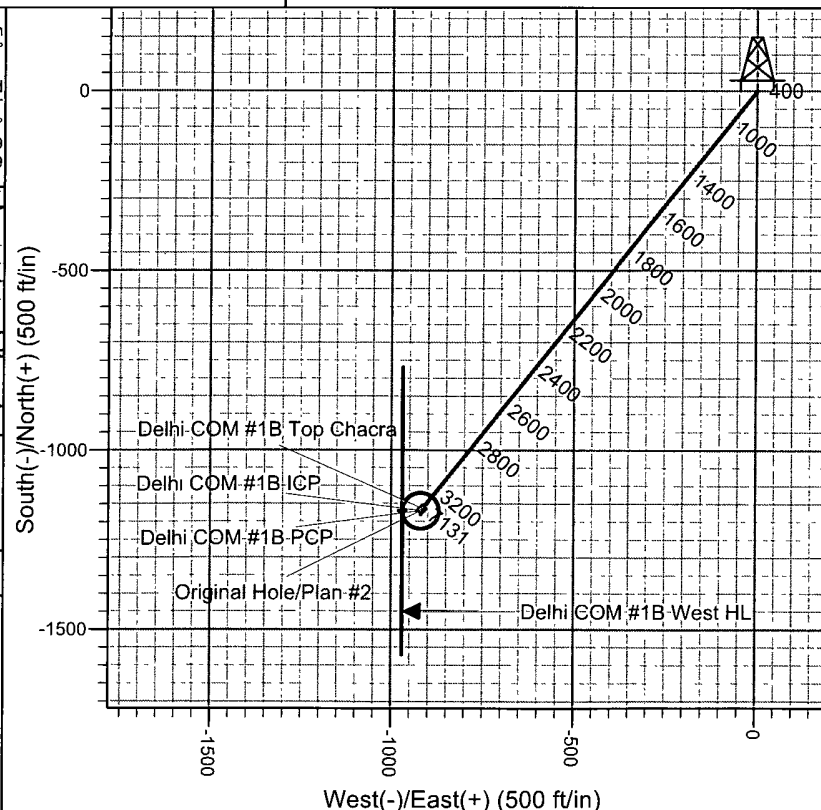
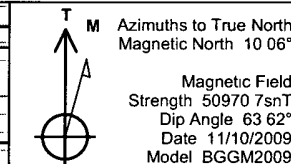
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
Delhi COM #1B Top Chacra	3588.0	-1163.0	-914.7	36° 48' 34.275 N	107° 41' 12.377 W	Point
Delhi COM #1B ICP	4200.0	-1168.7	-919.2	36° 48' 34.218 N	107° 41' 12.433 W	Circle (Radius: 50.0)
Delhi COM #1B West HL	4200.0	-1168.7	-969.2	36° 48' 34.218 N	107° 41' 13.047 W	Polygon
Delhi COM #1B PCP	7131.0	-1168.7	-919.2	36° 48' 34.218 N	107° 41' 12.433 W	Point

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Delhi COM #1B, True North
Vertical (TVD) Reference: DFE @ 5798.0ft (AWS 730)
Section (VS) Reference: Slot - (0.0N, 0.0E)
Measured Depth Reference: DFE @ 5798.0ft (AWS 730)
Calculation Method: Minimum Curvature

PROJECT DETAILS: SJB (NM West)

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico West 3003
System Datum: Mean Sea Level



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	400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.0	
3	1546.3	34.39	218.19	1478.7	-262.4	-206.4	3.00	218.19	333.8	
4	2996.9	34.39	218.19	2675.8	-906.3	-712.9	0.00	0.00	1153.1	
5	3976.5	5.00	218.19	3588.0	-1163.0	-914.7	3.00	180.00	1479.6	Delhi COM #1B Top Chacra
6	4143.2	0.00	0.00	3754.5	-1168.7	-919.2	3.00	180.00	1486.9	
7	4588.7	0.00	0.00	4200.0	-1168.7	-919.2	0.00	0.00	1486.9	Delhi COM #1B ICP
8	7519.7	0.00	0.00	7131.0	-1168.7	-919.2	0.00	0.00	1486.9	Delhi COM #1B PCP

Database:	EDM 2003 21 Single User Db	Local Co-ordinate Reference:	Well Delhi COM #1B
Company:	ConocoPhillips	TVD Reference:	DFE @ 5798.0ft (AWS 730)
Project:	SJB (NM West)	MD Reference:	DFE @ 5798 0ft (AWS 730)
Site:	SEC 13-T30N-R8W	North Reference:	True
Well:	Delhi COM #1B	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan #2		

Project	SJB (NM West), New Mexico, S-Type MV/DK Wells		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		Using Well Reference Point
Map Zone:	New Mexico West 3003		Using geodetic scale factor

Site	SEC 13-T30N-R8W		
Site Position:		Northing:	2,115,122.03 ft
From:	Lat/Long	Easting:	543,817.67 ft
Position Uncertainty:	0.0 ft	Slot Radius:	6-1/8"
		Latitude:	36° 48' 45.774 N
		Longitude:	107° 41' 1.129 W
		Grid Convergence:	0.09 °

Well	Delhi COM #1B, S-Type MV/DK Well		
Well Position	+N/-S	0.0 ft	Northing: 2,115,122.03 ft
	+E/-W	0.0 ft	Easting: 543,817.67 ft
Position Uncertainty	3.5 ft	Wellhead Elevation:	ft
		Latitude:	36° 48' 45.774 N
		Longitude:	107° 41' 1.129 W
		Ground Level:	5,783.0 ft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	BGGM2009	11/10/2009	10.06	63.62	50,971

Design	Plan #2				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(ft)	(ft)	(ft)	(°)	
	0.0	0.0	0.0	218.19	

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(ft)	(ft)	Rate	Rate	Rate	(°)	
(ft)			(ft)			(°/100ft)	(°/100ft)	(°/100ft)		
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,546.3	34.39	218.19	1,478.7	-262.4	-206.4	3.00	3.00	0.00	218.19	
2,996.9	34.39	218.19	2,675.8	-906.3	-712.9	0.00	0.00	0.00	0.00	
3,976.5	5.00	218.19	3,588.0	-1,163.0	-914.7	3.00	-3.00	0.00	180.00	Delhi COM #1B To
4,143.2	0.00	0.00	3,754.5	-1,168.7	-919.2	3.00	-3.00	0.00	180.00	
4,588.7	0.00	0.00	4,200.0	-1,168.7	-919.2	0.00	0.00	0.00	0.00	Delhi COM #1B ICF
7,519.7	0.00	0.00	7,131.0	-1,168.7	-919.2	0.00	0.00	0.00	0.00	Delhi COM #1B PC

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well Delhi COM # 3
Company:	ConocoPhillips	TVD Reference:	DFE @ 5798.0 AW
Project:	SJB (NM West)	MD Reference:	DFE @ 5798.0 (AW
Site:	SEC 13-T30N-R8W	North Reference:	True
Well:	Delhi COM #1B	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan #2		

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
320.0	0.00	0.00	320.0	0.0	0.0	0.0	0.00	0.00	0.00
9 5/8"									
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	3.00	218.19	500.0	-2.1	-1.6	2.6	3.00	3.00	0.00
600.0	6.00	218.19	599.6	-8.2	-6.5	10.5	3.00	3.00	0.00
700.0	9.00	218.19	698.8	-18.5	-14.5	23.5	3.00	3.00	0.00
800.0	12.00	218.19	797.1	-32.8	-25.8	41.7	3.00	3.00	0.00
900.0	15.00	218.19	894.3	-51.1	-40.2	65.1	3.00	3.00	0.00
1,000.0	18.00	218.19	990.2	-73.5	-57.8	93.5	3.00	3.00	0.00
1,100.0	21.00	218.19	1,084.4	-99.7	-78.4	126.9	3.00	3.00	0.00
1,200.0	24.00	218.19	1,176.8	-129.8	-102.1	165.1	3.00	3.00	0.00
1,300.0	27.00	218.19	1,267.1	-163.6	-128.7	208.2	3.00	3.00	0.00
1,400.0	30.00	218.19	1,354.9	-201.1	-158.2	255.9	3.00	3.00	0.00
1,445.4	31.36	218.19	1,394.0	-219.3	-172.5	279.1	3.00	3.00	0.00
Ojo Alamo									
1,500.0	33.00	218.19	1,440.2	-242.2	-190.5	308.1	3.00	3.00	0.00
1,546.3	34.39	218.19	1,478.7	-262.4	-206.4	333.8	3.00	3.00	0.00
1,600.0	34.39	218.19	1,523.0	-286.2	-225.1	364.1	0.00	0.00	0.00
1,658.1	34.39	218.19	1,571.0	-312.0	-245.4	397.0	0.00	0.00	0.00
Kirtland									
1,700.0	34.39	218.19	1,605.5	-330.6	-260.0	420.6	0.00	0.00	0.00
1,800.0	34.39	218.19	1,688.1	-375.0	-295.0	477.1	0.00	0.00	0.00
1,900.0	34.39	218.19	1,770.6	-419.4	-329.9	533.6	0.00	0.00	0.00
2,000.0	34.39	218.19	1,853.1	-463.8	-364.8	590.0	0.00	0.00	0.00
2,100.0	34.39	218.19	1,935.6	-508.2	-399.7	646.5	0.00	0.00	0.00
2,200.0	34.39	218.19	2,018.2	-552.6	-434.6	703.0	0.00	0.00	0.00
2,296.7	34.39	218.19	2,098.0	-595.5	-468.4	757.7	0.00	0.00	0.00
Fruitland									
2,300.0	34.39	218.19	2,100.7	-597.0	-469.5	759.5	0.00	0.00	0.00
2,400.0	34.39	218.19	2,183.2	-641.3	-504.5	816.0	0.00	0.00	0.00
2,500.0	34.39	218.19	2,265.7	-685.7	-539.4	872.4	0.00	0.00	0.00
2,600.0	34.39	218.19	2,348.3	-730.1	-574.3	928.9	0.00	0.00	0.00
2,700.0	34.39	218.19	2,430.8	-774.5	-609.2	985.4	0.00	0.00	0.00
2,800.0	34.39	218.19	2,513.3	-818.9	-644.1	1,041.9	0.00	0.00	0.00
2,900.0	34.39	218.19	2,595.8	-863.3	-679.0	1,098.4	0.00	0.00	0.00
2,920.8	34.39	218.19	2,613.0	-872.5	-686.3	1,110.1	0.00	0.00	0.00
Pictured Cliffs									
2,996.9	34.39	218.19	2,675.8	-906.3	-712.9	1,153.1	0.00	0.00	0.00
3,000.0	34.29	218.19	2,678.3	-907.7	-714.0	1,154.8	3.00	-3.00	0.00
3,059.5	32.51	218.19	2,728.0	-933.4	-734.2	1,187.6	3.00	-3.00	0.00
Lewis									
3,100.0	31.29	218.19	2,762.4	-950.3	-747.4	1,209.0	3.00	-3.00	0.00
3,200.0	28.29	218.19	2,849.2	-989.3	-778.2	1,258.7	3.00	-3.00	0.00
3,300.0	25.29	218.19	2,938.4	-1,024.7	-806.0	1,303.8	3.00	-3.00	0.00
3,400.0	22.29	218.19	3,029.9	-1,056.5	-831.0	1,344.1	3.00	-3.00	0.00
3,500.0	19.29	218.19	3,123.4	-1,084.4	-852.9	1,379.6	3.00	-3.00	0.00
3,600.0	16.29	218.19	3,218.6	-1,108.4	-871.8	1,410.2	3.00	-3.00	0.00
3,640.9	15.07	218.19	3,258.0	-1,117.1	-878.6	1,421.2	3.00	-3.00	0.00
Huerfano Bentonite									

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well Delhi COM #1B
Company:	ConocoPhillips	TVD Reference:	DFE @ 5798.0ft (AWS 730)
Project:	SJB (NM West)	MD Reference:	DFE @ 5798 0ft (AWS 730)
Site:	SEC 13-T30N-R8W	North Reference:	True
Well:	Delhi COM #1B	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan #2		

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)
3,700.0	13.29	218.19	3,315.3	-1,128.4	-887.6	1,435.7	3.00	-3.00	0.00
3,800.0	10.29	218.19	3,413.1	-1,144.5	-900.2	1,456.1	3.00	-3.00	0.00
3,900.0	7.29	218.19	3,512.0	-1,156.5	-909.7	1,471.4	3.00	-3.00	0.00
3,976.5	5.00	218.19	3,588.0	-1,163.0	-914.7	1,479.6	3.00	-3.00	0.00
Chacra									
4,000.0	4.29	218.19	3,611.4	-1,164.5	-915.9	1,481.5	3.00	-3.00	0.00
4,100.0	1.29	218.19	3,711.3	-1,168.3	-918.9	1,486.4	3.00	-3.00	0.00
4,143.2	0.00	0.00	3,754.5	-1,168.7	-919.2	1,486.9	3.00	-3.00	0.00
4,200.0	0.00	0.00	3,811.3	-1,168.7	-919.2	1,486.9	0.00	0.00	0.00
4,300.0	0.00	0.00	3,911.3	-1,168.7	-919.2	1,486.9	0.00	0.00	0.00
4,400.0	0.00	0.00	4,011.3	-1,168.7	-919.2	1,486.9	0.00	0.00	0.00
4,500.0	0.00	0.00	4,111.3	-1,168.7	-919.2	1,486.9	0.00	0.00	0.00
4,588.7	0.00	0.00	4,200.0	-1,168.7	-919.2	1,486.9	0.00	0.00	0.00
7"									
4,600.0	0.00	0.00	4,211.3	-1,168.7	-919.2	1,486.9	0.00	0.00	0.00
4,671.7	0.00	0.00	4,283.0	-1,168.7	-919.2	1,486.9	0.00	0.00	0.00
Upper Cliff House									
4,700.0	0.00	0.00	4,311.3	-1,168.7	-919.2	1,486.9	0.00	0.00	0.00
4,771.7	0.00	0.00	4,383.0	-1,168.7	-919.2	1,486.9	0.00	0.00	0.00
Massive Cliff House									
4,800.0	0.00	0.00	4,411.3	-1,168.7	-919.2	1,486.9	0.00	0.00	0.00
4,806.7	0.00	0.00	4,418.0	-1,168.7	-919.2	1,486.9	0.00	0.00	0.00
Menefee									
4,900.0	0.00	0.00	4,511.3	-1,168.7	-919.2	1,486.9	0.00	0.00	0.00
5,000.0	0.00	0.00	4,611.3	-1,168.7	-919.2	1,486.9	0.00	0.00	0.00
5,082.7	0.00	0.00	4,694.0	-1,168.7	-919.2	1,486.9	0.00	0.00	0.00
Point Lookout									
5,100.0	0.00	0.00	4,711.3	-1,168.7	-919.2	1,486.9	0.00	0.00	0.00
5,200.0	0.00	0.00	4,811.3	-1,168.7	-919.2	1,486.9	0.00	0.00	0.00
5,300.0	0.00	0.00	4,911.3	-1,168.7	-919.2	1,486.9	0.00	0.00	0.00
5,400.0	0.00	0.00	5,011.3	-1,168.7	-919.2	1,486.9	0.00	0.00	0.00
5,489.7	0.00	0.00	5,101.0	-1,168.7	-919.2	1,486.9	0.00	0.00	0.00
Mancos									
5,500.0	0.00	0.00	5,111.3	-1,168.7	-919.2	1,486.9	0.00	0.00	0.00
5,600.0	0.00	0.00	5,211.3	-1,168.7	-919.2	1,486.9	0.00	0.00	0.00
5,700.0	0.00	0.00	5,311.3	-1,168.7	-919.2	1,486.9	0.00	0.00	0.00
5,800.0	0.00	0.00	5,411.3	-1,168.7	-919.2	1,486.9	0.00	0.00	0.00
5,900.0	0.00	0.00	5,511.3	-1,168.7	-919.2	1,486.9	0.00	0.00	0.00
6,000.0	0.00	0.00	5,611.3	-1,168.7	-919.2	1,486.9	0.00	0.00	0.00
6,100.0	0.00	0.00	5,711.3	-1,168.7	-919.2	1,486.9	0.00	0.00	0.00
6,200.0	0.00	0.00	5,811.3	-1,168.7	-919.2	1,486.9	0.00	0.00	0.00
6,300.0	0.00	0.00	5,911.3	-1,168.7	-919.2	1,486.9	0.00	0.00	0.00
6,400.0	0.00	0.00	6,011.3	-1,168.7	-919.2	1,486.9	0.00	0.00	0.00
6,456.7	0.00	0.00	6,068.0	-1,168.7	-919.2	1,486.9	0.00	0.00	0.00
Gallup									
6,500.0	0.00	0.00	6,111.3	-1,168.7	-919.2	1,486.9	0.00	0.00	0.00
6,600.0	0.00	0.00	6,211.3	-1,168.7	-919.2	1,486.9	0.00	0.00	0.00
6,700.0	0.00	0.00	6,311.3	-1,168.7	-919.2	1,486.9	0.00	0.00	0.00
6,800.0	0.00	0.00	6,411.3	-1,168.7	-919.2	1,486.9	0.00	0.00	0.00
6,900.0	0.00	0.00	6,511.3	-1,168.7	-919.2	1,486.9	0.00	0.00	0.00
7,000.0	0.00	0.00	6,611.3	-1,168.7	-919.2	1,486.9	0.00	0.00	0.00
7,100.0	0.00	0.00	6,711.3	-1,168.7	-919.2	1,486.9	0.00	0.00	0.00
7,171.7	0.00	0.00	6,783.0	-1,168.7	-919.2	1,486.9	0.00	0.00	0.00

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well Delhi COM #1B
Company:	ConocoPhillips	TVD Reference:	DFE @ 5798.0ft (AWS 730)
Project:	SJB (NM West)	MD Reference:	DFE @ 5798 0ft (AWS 730)
Site:	SEC 13-T30N-R8W	North Reference:	True
Well:	Delhi COM #1B	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan #2		

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)
Greenhorn									
7,200.0	0.00	0.00	6,811.3	-1,168.7	-919.2	1,486.9	0.00	0.00	0.00
7,226.7	0.00	0.00	6,838.0	-1,168.7	-919.2	1,486.9	0.00	0.00	0.00
Graneros									
7,283.7	0.00	0.00	6,895.0	-1,168.7	-919.2	1,486.9	0.00	0.00	0.00
Two Wells									
7,300.0	0.00	0.00	6,911.3	-1,168.7	-919.2	1,486.9	0.00	0.00	0.00
7,359.7	0.00	0.00	6,971.0	-1,168.7	-919.2	1,486.9	0.00	0.00	0.00
Paguate									
7,392.7	0.00	0.00	7,004.0	-1,168.7	-919.2	1,486.9	0.00	0.00	0.00
Cuberos									
7,400.0	0.00	0.00	7,011.3	-1,168.7	-919.2	1,486.9	0.00	0.00	0.00
7,410.7	0.00	0.00	7,022.0	-1,168.7	-919.2	1,486.9	0.00	0.00	0.00
Lower Cubero									
7,469.7	0.00	0.00	7,081.0	-1,168.7	-919.2	1,486.9	0.00	0.00	0.00
Encinal									
7,500.0	0.00	0.00	7,111.3	-1,168.7	-919.2	1,486.9	0.00	0.00	0.00
7,519.7	0.00	0.00	7,131.0	-1,168.7	-919.2	1,486.9	0.00	0.00	0.00
4 1/2"									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Delhi COM #1B Top C	0.00	0.00	3,588.0	-1,163.0	-914.7	2,113,957.74	542,904.83	36° 48' 34.275 N	107° 41' 12.377 W
- hit/miss target									
- plan hits target center									
- Point									
Delhi COM #1B West	0.00	0.00	4,200.0	-1,168.7	-969.2	2,113,951.93	542,850.38	36° 48' 34.218 N	107° 41' 13.047 W
- plan misses target center by 50.0ft at 4588.7ft MD (4200.0 TVD, -1168.7 N, -919.2 E)									
- Polygon									
Point 1			4,200.0	400.0	0.0	2,114,351.90	542,849.76		
Point 2			4,200.0	-400.0	0.0	2,113,551.96	542,851.01		
Delhi COM #1B ICP	0.00	0.00	4,200.0	-1,168.7	-919.2	2,113,952.01	542,900.34	36° 48' 34.218 N	107° 41' 12.433 W
- plan hits target center									
- Circle (radius 50.0)									
Delhi COM #1B PCP	0.00	0.00	7,131.0	-1,168.7	-919.2	2,113,952.01	542,900.34	36° 48' 34.218 N	107° 41' 12.433 W
- plan hits target center									
- Point									

Casing Points				
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
320.0	320.0	9 5/8"	9-5/8	12-1/4
4,588.7	4,200.0	7"	7	8-3/4
7,519.7	7,131.0	4 1/2"	4-1/2	6-1/4

Database:	EDM 2003.21 Single Us	Local Co-ordinate Reference:	Well Delhi COM #1B
Company:	ConocoPhillips	TVD Reference:	DFE @ 5798.0ft (AWS 730)
Project:	SJB (NM West)	MD Reference:	DFE @ 5798 0ft (AWS 730)
Site:	SEC 13-T30N-R8W	North Reference:	True
Well:	Delhi COM #1B	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan #2		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,445.4	1,394.0	Ojo Alamo		0.00		
1,658.1	1,571.0	Kirtland		0.00		
2,296.7	2,098.0	Fruitland		0.00		
2,920.8	2,613.0	Pictured Cliffs		0.00		
3,059.5	2,728.0	Lewis		0.00		
3,640.9	3,258.0	Huerfano Bentonite		0.00		
3,976.5	3,588.0	Chacra		0.00		
4,671.7	4,283.0	Upper Cliff House		0.00		
4,771.7	4,383.0	Massive Cliff House		0.00		
4,806.7	4,418.0	Menefee		0.00		
5,082.7	4,694.0	Point Lookout		0.00		
5,489.7	5,101.0	Mancos		0.00		
6,456.7	6,068.0	Gallup		0.00		
7,171.7	6,783.0	Greenhorn		0.00		
7,226.7	6,838.0	Graneros		0.00		
7,283.7	6,895.0	Two Wells		0.00		
7,359.7	6,971.0	Paguate		0.00		
7,392.7	7,004.0	Cuberos		0.00		
7,410.7	7,022.0	Lower Cubero		0.00		
7,469.7	7,081.0	Encinal		0.00		

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

DELHI COM 1B

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7294				AFE \$: 1,764,084.42	
Field Name: SAN JUAN		Rig: Aztec Rig 730		State: NM	County: SAN JUAN		API #: 3004535014
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist:		Phone:		Prod. Engineer:		Phone:	
Res. Engineer: McKee, Cory J		Phone: +1 505-326-9826		Proj. Field Lead:		Phone:	
Primary Objective (Zones):							
Zone	Zone Name						
FRR	BASIN DAKOTA (PRORATED GAS)						
RON	BLANCO MESAVERDE (PRORATED GAS)						
Location: Surface Datum Code: NAD 27 Directional							
Latitude: 36.812715		Longitude: -107.683647		X:	Y:	Section: 16	Range: 008W
Footage X: 1556 FWL		Footage Y: 2119 FNL		Elevation: 5783 (FT)		Township: 030N	
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27 Directional							
Latitude: 36.809505		Longitude: -107.686787		X:	Y:	Section: 16	Range: 008W
Footage X: 710 FWL		Footage Y: 1926 FSL		Elevation: (FT)		Township: 030N	
Tolerance:							
Location Type: Year Round		Start Date (Est.): 1/1/2009		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 5798 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	320	5478	☐			12-1/4" hole. 9-5/8", 32.3 ppf, H-40, STC casing. Cement with 170 cubic ft. Circulate cement to surface.	
OJO ALAMO	1394	4404	☐				
KIRTLAND	1571	4227	☐				
FRUITLAND	2098	3700	☐			Possible Gas	
PICTURED CLIFFS	2613	3185	☐				
LEWIS	2728	3070	☐				
HUERFANITO BENTONITE	3258	2540	☐				
CHACRA	3588	2210	☐				
Intermediate Casing	3754	2044	☐			8-3/4" hole. 7", 23 ppf, L-80, LTC casing. Cement with 1018 cubic ft. Circulate cement to surface.	
UPPER CLIFF HOUSE	4283	1515	☐			Gas	
MASSIVE CLIFF HOUSE	4383	1415	☐	225		Gas	
MENEFEE	4418	1380	☐				
POINT LOOKOUT	4694	1104	☐				
MANCOS	5101	697	☐				
GALLUP	6068	-270	☐				
GREENHORN	6783	-985	☐				
GRANEROS	6838	-1040	☐				
TWO WELLS	6895	-1097	☐	2250		Gas	
PAGUATE	6971	-1173	☐				
CUBERO	7004	-1206	☐				
LOWER CUBERO	7022	-1224	☐				
ENCINAL	7081	-1283	☐			TD - T/ENCN + 50'	

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

DELHI COM 1B

DEVELOPMENT

Total Depth	7131	-1333	☐	6-1/4" hole. 4-1/2", 11.6 ppf, L-80, LTC casing. Cement with 403 cubic ft. Circulate cement a minimum of 100' inside the previous casing string.
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Reference Wells:		
Reference Type	Well Name	Comments
Production	HOWELL K 4C	30N-8W17 E2 NW NW
Production	STANOLIND GAS COM 1-A	30N-8W16 SE NW SE
Production	MOORE 1	30N-8W8 SE SW
Production	LAWSON 1-R	30N-8W10 NE NW 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 Greenhorn to TD - mudlogger will call TD							

Additional Information:					
Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks

Comments: Location/Tops/Logging - MVNM030N008W16SW2 DK 30N08W16SW1 Avoid K, prefer M,L, topo could be an issue, no twin options.

Zones - MVNM030N008W16SW2 DK 30N08W16SW1

General/Work Description - 1/8/08-is economic as DD per RFrost wfp (doc mgt)
LEWIS FORMATION INCLUDED