

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

APR 08 2011

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Farmington Field Office
Bureau of Land Management

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 NM-4456 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
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700		8. Farm or Lease Name Cat Draw Com 9. Well Number 1P
4. Location of Well Surface: Unit G(SWNE), 2440' FNL & 2505' FEL LOT 6 Unit B(NWNE), 995' FNL & 1835' FEL Surface: Latitude: 36.842185° N (NAD83) Longitude: 107.362277° W BHL: Latitude: 36.846150° N (NAD83) Longitude: 107.360004° W		10. Field, Pool, Wildcat Blanco MV / Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 4, T30N, R5W API # 30-039-31051
14. Distance in Miles from Nearest Town 50 miles from Blanco, NM	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 995'		
16. Acres in Lease 558.760	17. Acres Assigned to Well 319.13 acres E/2	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 523' from Cat Draw Com 101 (FC)		
19. Proposed Depth 8464.6'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6457' GL	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Dollie L. Busse</u> Dollie L. Busse (Staff Regulatory Tech)		Date <u>April 7, 2011</u>

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY [Signature] TITLE AFM DATE 6/7/11

Archaeological Report attached A gas recovery unit may or may not be used on this location.
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

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

JUN 22 2011

NMOC

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

Hold C104
for Directional Survey
and "As Drilled" plat

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised October 12, 2005

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

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

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039 - 31051	² Pool Code 71599 / 72319	³ Pool Name BASIN DAKOTA/BLANCO MESAVERDE
⁴ Property Code 25880	⁵ Property Name CAT DRAW COM	⁶ Well Number 1P
⁷ GRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	⁹ Elevation 6457'

¹⁰ Surface Location

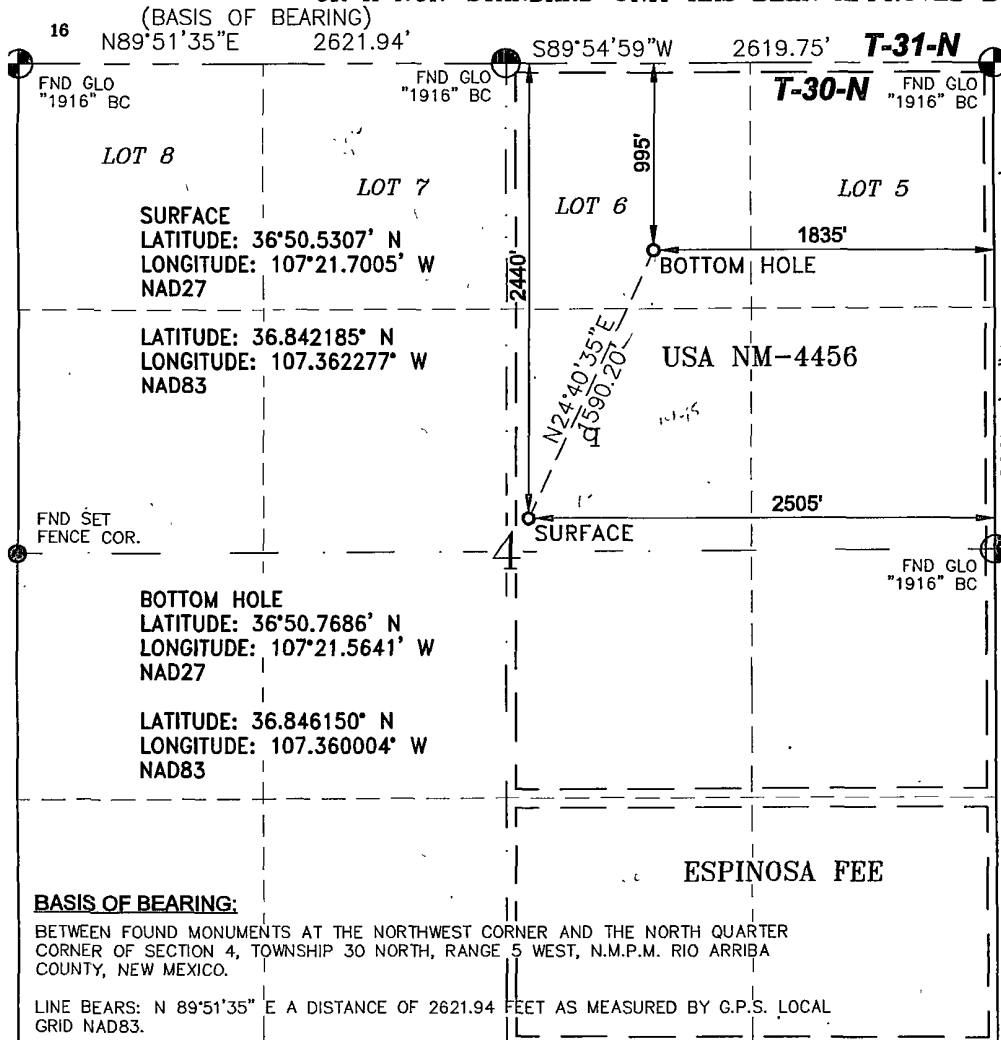
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	4	30-N	5-W		2440	NORTH	2505	EAST	RIO ARRIBA

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
B	4	30-N	5-W	U	995	NORTH	1835	EAST	RIO ARRIBA

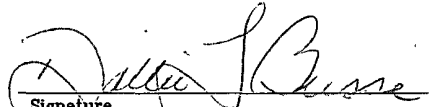
¹² Dedicated Acres DK 319.13 ACRES E/2 MV 319.13 ACRES E/2	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



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 a working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.


Signature
Dollie L. Busse
Printed Name

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.

November 11, 2009
Date of Survey

Signature and Seal of Surveyor



GLEN W. RUSSELL
Certificate Number

15703

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

CAT DRAW COM 1P

DEVELOPMENT

Lease:		AFE #: WAN.CDR.9319				AFE \$: 1,093,094.22	
Field Name: SAN JUAN		Rig: Aztec Rig 673		State: NM	County: SAN JUAN		API #:
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist:		Phone:		Prod. Engineer:		Phone:	
Res. Engineer:		Phone:		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: 36.842178		Longitude: -107.361675		X:	Y:	Section: 04	Range: 005W
Footage X: 2505 FEL		Footage Y: 2440 FNL		Elevation: 6457	(FT)	Township: 030N	
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27 Directional							
Latitude: 36.846143		Longitude: -107.359402		X:	Y:	Section: 04	Range: 005W
Footage X: 1835 FEL		Footage Y: 995 FNL		Elevation:	(FT)	Township: 030N	
Tolerance:							
Location Type: Restricted Start Date (Est.): 1/1/2013 Completion Date: Date In Operation:							
Formation Data: Assume KB = 6472 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	230	6242		☐			12-1/4 hole. 230' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.
NACIMIENTO	1324	5148		☐			
OJO ALAMO	2504	3968		☐			
KIRTLAND	2690	3782		☐			
FRUITLAND	2804	3668		☐			Possible Gas
PICTURED CLIFFS	3435	3037		☐			
LEWIS	3566	2906		☐			
Intermediate Casing	3716	2756		☐	128		8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 931 cuft. Circulate cement to surface.
HUERFANITO BENTONITE	4213	2259		☐			
CHACRA	4610	1862		☐			
UPPER CLIFF HOUSE	5152	1320		☐			Gas; Est. Top Perf - 5154 (1318)
MASSIVE CLIFF HOUSE	5446	1026		☐	438		Gas; Cliff House is dry
MENEFEE	5490	982		☐			
POINT LOOKOUT	5744	728		☐			
MANCOS	6124	348		☐			
UPPER GALLUP	6992	-520		☐			
GREENHORN	7714	-1242		☐			
GRANEROS	7759	-1287		☐			
TWO WELLS	7869	-1397		☐	3145		Gas
PAGUATE	7888	-1416		☐			
UPPER CUBERO	7909	-1437		☐			

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

CAT DRAW COM 1P

DEVELOPMENT

LOWER CUBERO	7935	-1463	☐	Est. Btm Perf - 8018 (- 1546) based on offset wells
ENCINAL	8012	-1540	☐	TD - 30' below T/ENCN
Total Depth	8042	-1570	☐	6-1/4" hole, 4-1/2" 11.6 ppf, L-80, LTC/BTC casing. Cement w/ 589 cuft. Circulate cement a minimum of 100' inside the previous casing string.

Reference Wells:		
Reference Type	Well Name	Comments
Production	Cat Draw 1E	30N 5W 4 SW NE NW
Production	SJ 30-5 Unit 87M	30N 5W 5 SW NE SE
Production	SJ 30-5 Unit 103	30N 5W 3 NE SW SW
Production	Rosa Unit 77A	31N 5W 33 NE SE

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

TD Logs:	☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other
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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	Local Co-ordinate Reference:	Well Cat Draw Com #1P
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6472.0ft (AWS RIGS)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	RKB @ 6472.0ft (AWS RIGS)
Site:	Other Named Wells	North Reference:	True
Well:	Cat Draw Com #1P	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #1		

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	Cat Draw Com #1P, Directional "S" Curve Long, No Lewis					
Well Position	+N/-S	0.0 ft	Northing:	2,126,154.47 ft	Latitude:	36° 50' 31.842 N
	+E/-W	0.0 ft	Easting:	638,015.99 ft	Longitude:	107° 21' 42.030 W
Position Uncertainty		3.5 ft	Wellhead Elevation:	ft	Ground Level:	6,457.0 ft

Wellbore	Principal Wellbore				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	BGGM2010	1/20/2011	(°)	(°)	(nT)
			9.77	63.67	50,882

Design	Plan #1				
Audit Notes:					
Version:	1	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(ft)	(ft)	(ft)	(°)	
	0.0	0.0	0.0	24.74	

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	
320.0	0.00	0.00	320.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,443.1	33.69	24.74	1,379.5	291.4	134.3	3.00	3.00	0.00	24.74	
3,296.3	33.69	24.74	2,921.4	1,225.1	564.5	0.00	0.00	0.00	0.00	
4,138.6	0.00	0.00	3,716.0	1,443.6	665.2	4.00	-4.00	0.00	180.00	Cat Draw Com #1P - I
8,464.6	0.00	0.00	8,042.0	1,443.6	665.2	0.00	0.00	0.00	0.00	Cat Draw Com #1P - I

ConocoPhillips or its affiliates

Planning Report

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Project: San Juan Basin - New Mexico West Wells
Site: Other Named Wells
Well: Cat Draw Com #1P
Wellbore: Principal Wellbore
Design: Plan #1

Local Co-ordinate Reference: Well Cat Draw Com #1P
TVD Reference: RKB @ 6472.0ft (AWS RIGS)
MD Reference: RKB @ 6472.0ft (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
Surface									
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	24.74	400.0	1.5	0.7	1.7	3.00	3.00	0.00
500 0	5.40	24.74	499.7	7.7	3.5	8.5	3.00	3.00	0.00
600 0	8.40	24.74	599.0	18.6	8.6	20.5	3.00	3.00	0.00
700.0	11.40	24.74	697.5	34.2	15.8	37.7	3.00	3.00	0.00
800.0	14.40	24.74	795.0	54.5	25.1	60.0	3.00	3.00	0.00
900 0	17.40	24.74	891.1	79.4	36.6	87.4	3.00	3.00	0.00
1,000 0	20.40	24.74	985.7	108.8	50.1	119.8	3.00	3.00	0.00
1,100.0	23.40	24.74	1,078.5	142.7	65.7	157.1	3.00	3.00	0.00
1,200.0	26.40	24.74	1,169.2	180.9	83.4	199.2	3.00	3.00	0.00
1,300.0	29.40	24.74	1,257.6	223.4	102.9	246.0	3.00	3.00	0.00
1,377.2	31.71	24.74	1,324.0	259.0	119.4	285.2	3.00	3.00	0.00
Nacimiento									
1,400.0	32.40	24.74	1,343.4	270.0	124.4	297.3	3.00	3.00	0.00
1,443.1	33.69	24.74	1,379.5	291.4	134.3	320.8	3.00	3.00	0.00
1,500 0	33.69	24.74	1,426.8	320.0	147.5	352.4	0.00	0.00	0.00
1,600.0	33.69	24.74	1,510.0	370.4	170.7	407.9	0.00	0.00	0.00
1,700 0	33.69	24.74	1,593.2	420.8	193.9	463.3	0.00	0.00	0.00
1,800.0	33.69	24.74	1,676.4	471.2	217.1	518.8	0.00	0.00	0.00
1,900.0	33.69	24.74	1,759.6	521.6	240.3	574.3	0.00	0.00	0.00
2,000 0	33.69	24.74	1,842.8	571.9	263.6	629.8	0.00	0.00	0.00
2,100 0	33.69	24.74	1,926.0	622.3	286.8	685.2	0.00	0.00	0.00
2,200.0	33.69	24.74	2,009.2	672.7	310.0	740.7	0.00	0.00	0.00
2,300 0	33.69	24.74	2,092.4	723.1	333.2	796.2	0.00	0.00	0.00
2,400.0	33.69	24.74	2,175.6	773.5	356.4	851.7	0.00	0.00	0.00
2,500.0	33.69	24.74	2,258.8	823.9	379.7	907.1	0.00	0.00	0.00
2,600 0	33.69	24.74	2,342.0	874.2	402.9	962.6	0.00	0.00	0.00
2,700.0	33.69	24.74	2,425.2	924.6	426.1	1,018.1	0.00	0.00	0.00
2,794.7	33.69	24.74	2,504.0	972.3	448.1	1,070.6	0.00	0.00	0.00
Ojo Alamo									
2,800.0	33.69	24.74	2,508.4	975.0	449.3	1,073.6	0.00	0.00	0.00
2,900 0	33.69	24.74	2,591.6	1,025.4	472.5	1,129.0	0.00	0.00	0.00
3,000.0	33.69	24.74	2,674.8	1,075.8	495.7	1,184.5	0.00	0.00	0.00
3,018.2	33.69	24.74	2,690.0	1,084.9	500.0	1,194.6	0.00	0.00	0.00
Kirtland									
3,086.7	33.69	24.74	2,747.0	1,119.5	515.9	1,232.6	0.00	0.00	0.00
Stage Tool									
3,100 0	33.69	24.74	2,758.1	1,126.2	519.0	1,240.0	0.00	0.00	0.00
3,155.2	33.69	24.74	2,804.0	1,154.0	531.8	1,270.6	0.00	0.00	0.00
Fruitland									
3,200.0	33.69	24.74	2,841.3	1,176.5	542.2	1,295.5	0.00	0.00	0.00
3,296.3	33.69	24.74	2,921.4	1,225.1	564.5	1,348.9	0.00	0.00	0.00
3,300.0	33.55	24.74	2,924.5	1,226.9	565.4	1,350.9	4.00	-4.00	0.00
3,400.0	29.55	24.74	3,009.7	1,274.4	587.3	1,403.2	4.00	-4.00	0.00
3,500.0	25.55	24.74	3,098.3	1,316.4	606.6	1,449.5	4.00	-4.00	0.00
3,600 0	21.55	24.74	3,190.0	1,352.7	623.3	1,489.4	4.00	-4.00	0.00
3,700.0	17.55	24.74	3,284.2	1,383.1	637.3	1,522.9	4.00	-4.00	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: Cat Draw Com #1P
 Wellbore: Principal Wellbore
 Design: Plan #1

Local Co-ordinate Reference: Well Cat Draw Com #1P
 TVD Reference: RKB @ 6472 0ft (AWS RIGS)
 MD Reference: RKB @ 6472 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)	Bulld Rate (°/100ft)	Turn Rate (°/100ft)
3,800.0	13.55	24.74	3,380.5	1,407.4	648.6	1,549.7	4.00	-4.00	0.00
3,855.8	11.31	24.74	3,435.0	1,418.3	653.6	1,561.7	4.00	-4.00	0.00
Pictured Cliffs									
3,900.0	9.55	24.74	3,478.5	1,425.6	656.9	1,569.7	4.00	-4.00	0.00
3,988.4	6.01	24.74	3,566.0	1,436.4	661.9	1,581.6	4.00	-4.00	0.00
Lewis									
4,000.0	5.55	24.74	3,577.6	1,437.5	662.4	1,582.8	4.00	-4.00	0.00
4,100.0	1.55	24.74	3,677.4	1,443.1	665.0	1,589.0	4.00	-4.00	0.00
4,138.6	0.00	0.00	3,716.0	1,443.6	665.2	1,589.5	4.00	-4.00	0.00
Intermediate - Cat Draw Com #1P - ICP									
4,200.0	0.00	0.00	3,777.4	1,443.6	665.2	1,589.5	0.00	0.00	0.00
4,300.0	0.00	0.00	3,877.4	1,443.6	665.2	1,589.5	0.00	0.00	0.00
4,400.0	0.00	0.00	3,977.4	1,443.6	665.2	1,589.5	0.00	0.00	0.00
4,500.0	0.00	0.00	4,077.4	1,443.6	665.2	1,589.5	0.00	0.00	0.00
4,600.0	0.00	0.00	4,177.4	1,443.6	665.2	1,589.5	0.00	0.00	0.00
4,635.6	0.00	0.00	4,213.0	1,443.6	665.2	1,589.5	0.00	0.00	0.00
Huerfano Bentonite									
4,700.0	0.00	0.00	4,277.4	1,443.6	665.2	1,589.5	0.00	0.00	0.00
4,800.0	0.00	0.00	4,377.4	1,443.6	665.2	1,589.5	0.00	0.00	0.00
4,900.0	0.00	0.00	4,477.4	1,443.6	665.2	1,589.5	0.00	0.00	0.00
5,000.0	0.00	0.00	4,577.4	1,443.6	665.2	1,589.5	0.00	0.00	0.00
5,032.6	0.00	0.00	4,610.0	1,443.6	665.2	1,589.5	0.00	0.00	0.00
Chacra									
5,100.0	0.00	0.00	4,677.4	1,443.6	665.2	1,589.5	0.00	0.00	0.00
5,200.0	0.00	0.00	4,777.4	1,443.6	665.2	1,589.5	0.00	0.00	0.00
5,300.0	0.00	0.00	4,877.4	1,443.6	665.2	1,589.5	0.00	0.00	0.00
5,400.0	0.00	0.00	4,977.4	1,443.6	665.2	1,589.5	0.00	0.00	0.00
5,500.0	0.00	0.00	5,077.4	1,443.6	665.2	1,589.5	0.00	0.00	0.00
5,600.0	0.00	0.00	5,177.4	1,443.6	665.2	1,589.5	0.00	0.00	0.00
5,700.0	0.00	0.00	5,277.4	1,443.6	665.2	1,589.5	0.00	0.00	0.00
5,800.0	0.00	0.00	5,377.4	1,443.6	665.2	1,589.5	0.00	0.00	0.00
5,868.6	0.00	0.00	5,446.0	1,443.6	665.2	1,589.5	0.00	0.00	0.00
Massive Cliffhouse									
5,900.0	0.00	0.00	5,477.4	1,443.6	665.2	1,589.5	0.00	0.00	0.00
5,912.6	0.00	0.00	5,490.0	1,443.6	665.2	1,589.5	0.00	0.00	0.00
Menefee									
6,000.0	0.00	0.00	5,577.4	1,443.6	665.2	1,589.5	0.00	0.00	0.00
6,100.0	0.00	0.00	5,677.4	1,443.6	665.2	1,589.5	0.00	0.00	0.00
6,166.6	0.00	0.00	5,744.0	1,443.6	665.2	1,589.5	0.00	0.00	0.00
Point Lookout									
6,200.0	0.00	0.00	5,777.4	1,443.6	665.2	1,589.5	0.00	0.00	0.00
6,300.0	0.00	0.00	5,877.4	1,443.6	665.2	1,589.5	0.00	0.00	0.00
6,400.0	0.00	0.00	5,977.4	1,443.6	665.2	1,589.5	0.00	0.00	0.00
6,500.0	0.00	0.00	6,077.4	1,443.6	665.2	1,589.5	0.00	0.00	0.00
6,546.6	0.00	0.00	6,124.0	1,443.6	665.2	1,589.5	0.00	0.00	0.00
Mancos									
6,600.0	0.00	0.00	6,177.4	1,443.6	665.2	1,589.5	0.00	0.00	0.00
6,700.0	0.00	0.00	6,277.4	1,443.6	665.2	1,589.5	0.00	0.00	0.00
6,800.0	0.00	0.00	6,377.4	1,443.6	665.2	1,589.5	0.00	0.00	0.00
6,900.0	0.00	0.00	6,477.4	1,443.6	665.2	1,589.5	0.00	0.00	0.00
7,000.0	0.00	0.00	6,577.4	1,443.6	665.2	1,589.5	0.00	0.00	0.00
7,100.0	0.00	0.00	6,677.4	1,443.6	665.2	1,589.5	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: Cat Draw Com #1P
 Wellbore: Principal Wellbore
 Design: Plan #1

Local Co-ordinate Reference: Well Cat Draw Com #1P
 TVD Reference: RKB @ 6472.0ft (AWS RIGS)
 MD Reference: RKB @ 6472.0ft (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)	
7,200.0	0.00	0.00	6,777.4	1,443.6	665.2	1,589.5	0.00	0.00	0.00	
7,300.0	0.00	0.00	6,877.4	1,443.6	665.2	1,589.5	0.00	0.00	0.00	
7,400.0	0.00	0.00	6,977.4	1,443.6	665.2	1,589.5	0.00	0.00	0.00	
7,414.6	0.00	0.00	6,992.0	1,443.6	665.2	1,589.5	0.00	0.00	0.00	
Upper Gallup										
7,500.0	0.00	0.00	7,077.4	1,443.6	665.2	1,589.5	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,177.4	1,443.6	665.2	1,589.5	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,277.4	1,443.6	665.2	1,589.5	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,377.4	1,443.6	665.2	1,589.5	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,477.4	1,443.6	665.2	1,589.5	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,577.4	1,443.6	665.2	1,589.5	0.00	0.00	0.00	
8,100.0	0.00	0.00	7,677.4	1,443.6	665.2	1,589.5	0.00	0.00	0.00	
8,136.6	0.00	0.00	7,714.0	1,443.6	665.2	1,589.5	0.00	0.00	0.00	
Greenhorn										
8,181.6	0.00	0.00	7,759.0	1,443.6	665.2	1,589.5	0.00	0.00	0.00	
Graneros										
8,200.0	0.00	0.00	7,777.4	1,443.6	665.2	1,589.5	0.00	0.00	0.00	
8,291.6	0.00	0.00	7,869.0	1,443.6	665.2	1,589.5	0.00	0.00	0.00	
Two Wells										
8,300.0	0.00	0.00	7,877.4	1,443.6	665.2	1,589.5	0.00	0.00	0.00	
8,310.6	0.00	0.00	7,888.0	1,443.6	665.2	1,589.5	0.00	0.00	0.00	
Paguate										
8,331.6	0.00	0.00	7,909.0	1,443.6	665.2	1,589.5	0.00	0.00	0.00	
Upper Cubero										
8,357.6	0.00	0.00	7,935.0	1,443.6	665.2	1,589.5	0.00	0.00	0.00	
Lower Cubero										
8,400.0	0.00	0.00	7,977.4	1,443.6	665.2	1,589.5	0.00	0.00	0.00	
8,434.6	0.00	0.00	8,012.0	1,443.6	665.2	1,589.5	0.00	0.00	0.00	
Encinal										
8,464.6	0.00	0.00	8,042.0	1,443.6	665.2	1,589.5	0.00	0.00	0.00	
Total Depth - Production - Cat Draw Com #1P - 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
Cat Draw Com #1P - PC	- hit/miss target	0.00	0.00	8,042.0	1,443.6	665.2	2,127,601.24	638,674.05	36° 50' 46.116 N	107° 21' 33.846 W
- plan hits target center	- Shape									
- Circle (radius 100.0)										
Cat Draw Com #1P - ICF	- hit/miss target	0.00	0.00	3,716.0	1,443.6	665.2	2,127,601.24	638,674.05	36° 50' 46.116 N	107° 21' 33.846 W
- plan hits target center	- Shape									
- Circle (radius 100.0)										

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: Cat Draw Com #1P
Wellbore: Principal Wellbore
Design: Plan #1

Local Co-ordinate Reference: Well Cat Draw Com #1P
TVD Reference: RKB @ 6472.0ft (AWS RIGS)
MD Reference: RKB @ 6472.0ft (AWS RIGS)
North Reference: True
Survey Calculation Method: Minimum Curvature

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
230.0	230.0	Surface	9-5/8	12-1/4
4,138.6	3,716.0	Intermediate	7	8-3/4
8,464.6	8,042.0	Production	4-1/2	6-1/4

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
7,414.6	6,992.0	Upper Gallup		0.00	
8,181.6	7,759.0	Graneros		0.00	
3,018.2	2,690.0	Kirtland		0.00	
8,291.6	7,869.0	Two Wells		0.00	
6,546.6	6,124.0	Mancos		0.00	
5,912.6	5,490.0	Menefee		0.00	
8,310.6	7,888.0	Paguate		0.00	
3,155.2	2,804.0	Fruitland		0.00	
8,136.6	7,714.0	Greenhorn		0.00	
8,331.6	7,909.0	Upper Cubero		0.00	
3,855.8	3,435.0	Pictured Cliffs		0.00	
1,377.2	1,324.0	Nacimiento		0.00	
3,086.7	2,747.0	Stage Tool		0.00	
8,357.6	7,935.0	Lower Cubero		0.00	
6,166.6	5,744.0	Point Lookout		0.00	
8,434.6	8,012.0	Encinal		0.00	
4,635.6	4,213.0	Huerfano Bentonite		0.00	
5,868.6	5,446.0	Massive Cliffhouse		0.00	
8,464.6	8,042.0	Total Depth		0.00	
2,794.7	2,504.0	Ojo Alamo		0.00	
5,032.6	4,610.0	Chacra		0.00	
3,988.4	3,566.0	Lewis		0.00	

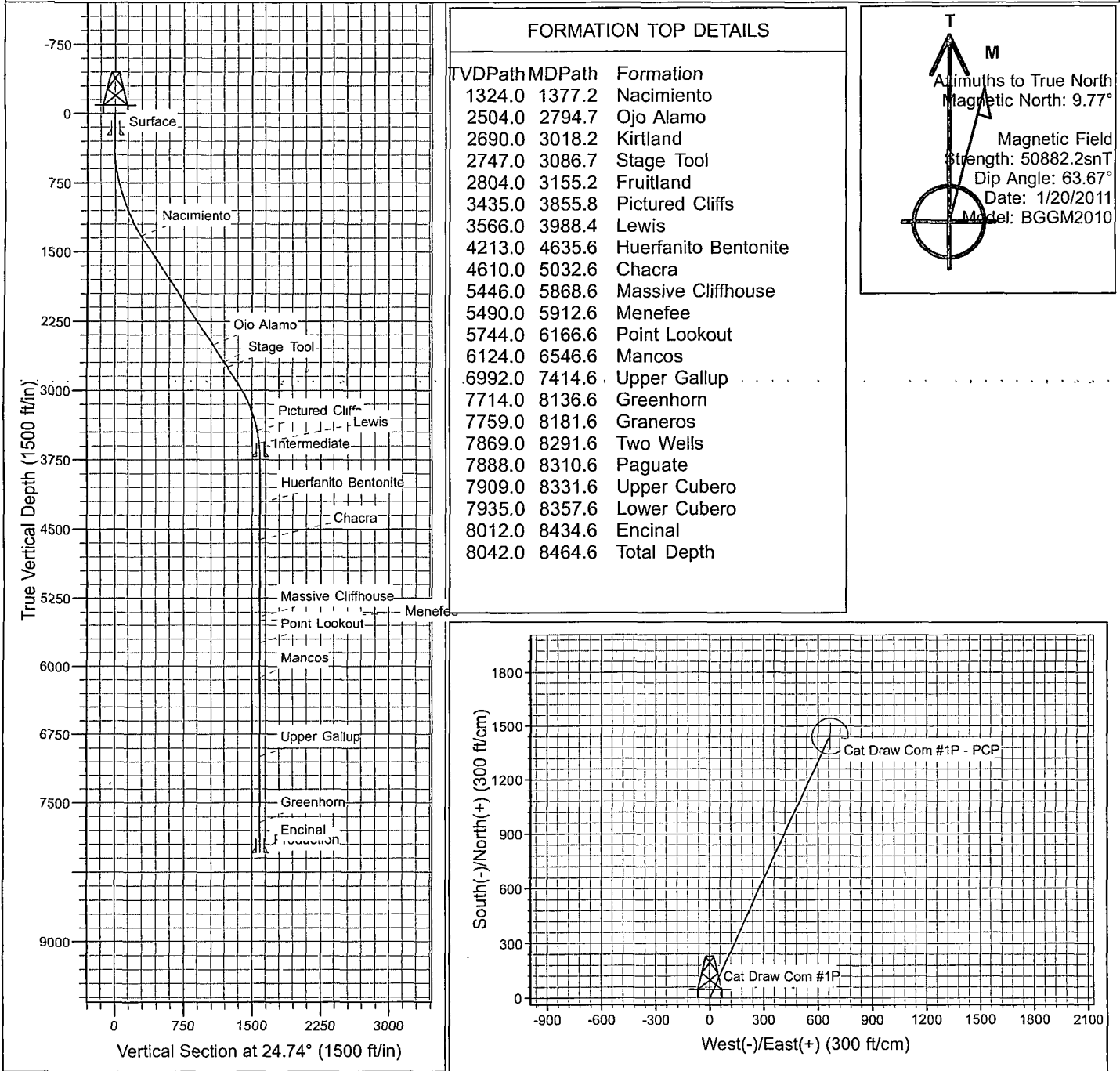
REFERENCE INFORMATION

RKB @ 6472.0ft (AWS RIGS)
Ground Elevation 6457.0
Reference Lat: 36° 50' 31.842 N
Reference Long: 107° 21' 42.030 W

Project: San Juan Basin - New Mexico West V

Site: Other Named Wells
Well: Cat Draw Com #1P
Wellbore: Principal Wellbore
Design: Plan #1

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	1443.1	33.69	24.74	1379.5	291.4	134.3	3.00	24.74	320.8		
4	3296.3	33.69	24.74	2921.4	1225.1	564.5	0.00	0.00	1348.9		
5	4138.6	0.00	0.00	3716.0	1443.6	665.2	4.00	180.00	1589.5	Cat Draw Com #1P - ICP	
6	8464.6	0.00	0.00	8042.0	1443.6	665.2	0.00	0.00	1589.5	Cat Draw Com #1P - PCP	



Directions from the Post Office
in Blanco, NM
to
BURLINGTON RESOURCES OIL & GAS CO LP
CAT DRAW COM #1P
2440' FNL & 2505' FEL,
Section 4, T30N, R5W, N.M.P.M., Rio Arriba County,
New Mexico
Latitude: 36° 50' 31.866" N
Longitude: 107° 21' 44.199" W
Nad 83

From the Post Office in Blanco, NM

Take Highway 64 East for 28.8 miles

To Hwy 527 (Simms Mesa Hwy),

Turn left (northwest) on Hwy 527 for 8.0 miles,

To Rosa Road, turn right (northeast) for 6.6 miles,

Across La Jara Bridge to the top of the Mesa,

continue (northeasterly) 1.2 miles,

turn right (easterly) 1.3 miles,

continue (southerly) for 1.4 miles,

continue (northeasterly) for 0.8 miles,

turn left (north) for 1.0 miles,

turn right (easterly) 0.2 miles to beginning of new access on left side of road,

turn left and proceed (northeasterly) 118.67' to the newly staked location.