

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

FEB 28 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 Usa SF-080538 Unit Reporting Number
1b. Type of Well GAS	6. If Indian, All. or Tribe	
2. Operator ConocoPhillips Company	7. Unit Agreement Name San Juan 30-5 Unit	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name San Juan 30-5 Unit 9. Well Number 113N	
4. Location of Well Surf: Unit G (SWNE), 2639' FNL & 2619' FEL BH: Unit C (NENW), 1205' FNL & 1930' FWL Surf: Latitude: 36.827193° N (NAD83) Longitude: 107.326646° W BH: Latitude: 36.831146° N (NAD83) Longitude: 107.329123° W	10. Field, Pool, Wildcat Basin DK/Blanco MV 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 11, T30N, R5W API # 30-039- 31035	
14. Distance in Miles from Nearest Town 60.4 Miles from Bloomfield, NM	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1205'	17. Acres Assigned to Well 320 Acres W/2	
16. Acres in Lease 1,886.39		
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 71.6' from COPC San Juan 30-5 Unit 113M (DK/MV)		
19. Proposed Depth 8240' E 1510	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6724' GL	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: Brandie Blakley Brandie Blakley (Staff Regulatory Technician)	2-25-11 Date	

Hold C104
for Directional Survey
and "As Drilled" plat

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY [Signature] TITLE AFM DATE 4/4/11

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 ES-0048 and ES-0085

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

NMOCD

APR 13 2011

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

PC

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, 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 & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 7 Copies

Fee Lease - 3 Copies

FEB 28 2011

Farmington Field Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION STATEMENT

¹ API Number 30-039-31035		² Pool Code 71599 / 72319		³ Pool Name BASIN DAKOTA / BLANCO MESAVERDE	
⁴ Property Code 31327		⁵ Property Name SAN JUAN 30-5 UNIT			⁶ Well Number 113N
⁷ OGRID No. 217817		⁸ Operator Name CONOCOPHILLIPS COMPANY			⁹ Elevation 6724

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	11	30-N	5-W		2639	NORTH	2619	EAST	RIO ARriba

¹¹ Bottom Hole Location If Different From Surface

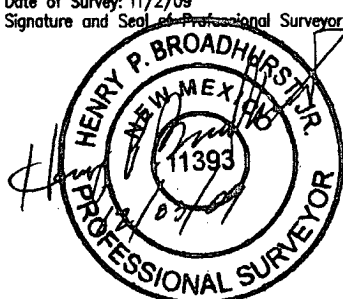
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	11	30-N	5-W		1205	NORTH	1930	WEST	RIO ARriba

¹² Dedicated Acres 320.00 (W/2)	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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RCVD APR 5 '11
OIL CONS. DIV.

DIST. 3

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 GLO N 89°53'22" W 1916 N 89°46' E 5279.6' (M) 5280.0' (R)		1205' 1930' 2639' 2619'		5289.1' (M) 5260.2' (R) 2640.0' (R) 2636.1' (M)		¹⁷ GLO 1916	
BOTTOM HOLE NAD 83 LAT: 36.831146° N LONG: 107.329123° W NAD 27 LAT: 36°49.868389' N LONG: 107°19.711332' W		WELL FLAG NAD 83 LAT: 36.827193° N LONG: 107.326646° W NAD 27 LAT: 36°49.631207' N LONG: 107°19.562719' W		2639' 2619'		2640.0' (R) 2636.1' (M)	
W/2 DEDICATED ACREAGE USA SF-080538 SECTION 11, T-30-N, R-5-W		BASIS OF BEARING IS THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, WEST ZONE, NAD83 AS DETERMINED BY GPS OBSERVATION AND NGS/OPUS SOLUTION.		2639' 2619'		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. Date of Survey: 11/2/09 Signature and Seal of Professional Surveyor:  Certificate Number: NM 11393	

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 30-5 UNIT 113N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.9011				AFE \$: 1,080,375.38	
Field Name: SAN JUAN		Rig: XXX 2013 Holding Rig		State: NM	County: RIO ARRIBA		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: 36.827186	Longitude: -107.326045	X:	Y:	Section: 11		Range: 005W	
Footage X: 2619 FEL	Footage Y: 2639 FNL	Elevation: 6724	(FT)	Township: 030N			
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27 Directional							
Latitude: 36.831139	Longitude: -107.328522	X:	Y:	Section: 11		Range: 005W	
Footage X: 1930 FWL	Footage Y: 1205 FNL	Elevation:	(FT)	Township: 030N			
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2013		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6740		Units = FT					
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	230	6510		☐			12-1/4 hole. 230' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.
NACIMIENTO	1568	5172		☐			
OJO ALAMO	2800	3940		☐			
KIRTLAND	2970	3770		☐			
FRUITLAND	3110	3630		☐			Possible Gas
PICTURED CLIFFS	3668	3072		☐			
LEWIS	3787	2953		☐			
Intermediate Casing	3887	2853		☐	126	8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 969 cuft. Circulate cement to surface.	
HUERFANITO BENTONITE	4473	2267		☐			
CHACRA	4849	1891		☐			
UPPER CLIFF HOUSE	5398	1342		☐			Gas; Est. Top Perf - 5399 (1340)
MASSIVE CLIFF HOUSE	5680	1060		☐	526		Gas; Cliffhouse is dry
MENEFEE	5726	1014		☐			
POINT LOOKOUT	5928	812		☐			
MANCOS	6356	384		☐			
UPPER GALLUP	7229	-489		☐			
GREENHORN	7945	-1205		☐			
GRANEROS	7995	-1255		☐			
TWO WELLS	8107	-1367		☐	3145		Gas
PAGUATE	8124	-1384		☐			
UPPER CUBERO	8126	-1386		☐			

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 30-5 UNIT 113N

DEVELOPMENT

LOWER CUBERO	8170	-1430	☐	Est. Btm Perf - 8224 (- 1485) based on offset wells
ENCINAL	8240	-1500	☐	TD - T/ENCN
Total Depth	8240	-1500	☐	222 6-1/4" hole, 4-1/2" 11.6 ppf, L-80, LTC casing. Cement w/ 592 cuft. Circulate cement a minimum of 100' inside the previous casing string.

Reference Wells:		
Reference Type	Well Name	Comments
Production	Carson SRC 4E	30N 5W 2 SW NE SW
Production	Schalk 54 1E	30N 5W 2 SW NE SE
Production	SJ 30-5 Unit 72M	30N 5W 10 SE SE SE
Production	SJ 30-5 Unit 113	30N 5W 11 SW NE 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 SJB
 Project: San Juan Basin - New Mexico Wells
 Site: San Juan 30 Wells
 Well: SJ 30-5 #113N
 Wellbore: Principal Wellbore
 Design: Plan #1

Local Co-ordinate Reference: Well SJ 30-5 #113N
 TVD Reference: RKB @ 6740.0ft (H&P RIGS)
 MD Reference: RKB @ 6740.0ft (H&P RIGS)
 North Reference: True
 Survey Calculation Method: Minimum Curvature

Project: San Juan Basin - New Mexico 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: San Juan 30 Wells
 Site Position: Northing: 2,113,682.53 ft Latitude: 36° 48' 28.968 N
 From: Lat/Long Easting: 628,365.80 ft Longitude: 107° 23' 41.454 W
 Position Uncertainty: 15.0 ft Slot Radius: " Grid Convergence: 0.26 °

Well: SJ 30-5 #113N, Directional "S" Curve Long, Lewis not included
 Well Position: +N/-S 0.0 ft Northing: 2,120,750.10 ft Latitude: 36° 49' 37.872 N
 +E/-W 0.0 ft Easting: 648,470.95 ft Longitude: 107° 19' 33.763 W
 Position Uncertainty: 3.5 ft Wellhead Elevation: ft Ground Level: 6,724.0 ft

Wellbore: Principal Wellbore
 Magnetics Model Name Sample Date Declination Dip Angle Field Strength
 (°) (°) (nT)
 BGGM2010 8/11/2010 9.82 63.67 50,924

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 0.0 333.27

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
0.0	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	
1,447.1	33.81	333.27	1,382.8	288.5	-145.3	3.00	3.00	0.00	333.27	
3,181.9	33.81	333.27	2,824.2	1,150.7	-579.6	0.00	0.00	0.00	0.00	
4,309.0	0.00	0.00	3,887.0	1,439.2	-725.0	3.00	-3.00	0.00	180.00	SJ 30-5 #113N - ICP
8,662.0	0.00	0.00	8,240.0	1,439.2	-725.0	0.00	0.00	0.00	0.00	SJ 30-5 #113N - PCP

ConocoPhillips or its affiliates

Planning Report

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Site: San Juan 30 Wells
Well: SJ 30-5 #113N
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MD Reference: RKB @ 6740.0ft (H&P 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
Surf									
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	333.27	400.0	1.5	-0.8	1.7	3.00	3.00	0.00
500.0	5.40	333.27	499.7	7.6	-3.8	8.5	3.00	3.00	0.00
600.0	8.40	333.27	599.0	18.3	-9.2	20.5	3.00	3.00	0.00
700.0	11.40	333.27	697.5	33.7	-17.0	37.7	3.00	3.00	0.00
800.0	14.40	333.27	795.0	53.6	-27.0	60.0	3.00	3.00	0.00
900.0	17.40	333.27	891.1	78.1	-39.3	87.4	3.00	3.00	0.00
1,000.0	20.40	333.27	985.7	107.0	-53.9	119.8	3.00	3.00	0.00
1,100.0	23.40	333.27	1,078.5	140.3	-70.7	157.1	3.00	3.00	0.00
1,200.0	26.40	333.27	1,169.2	177.9	-89.6	199.2	3.00	3.00	0.00
1,300.0	29.40	333.27	1,257.6	219.7	-110.7	246.0	3.00	3.00	0.00
1,400.0	32.40	333.27	1,343.4	265.5	-133.7	297.3	3.00	3.00	0.00
1,447.1	33.81	333.27	1,382.8	288.5	-145.3	323.1	3.00	3.00	0.00
1,500.0	33.81	333.27	1,426.8	314.8	-158.6	352.5	0.00	0.00	0.00
1,600.0	33.81	333.27	1,509.8	364.5	-183.6	408.1	0.00	0.00	0.00
1,670.0	33.81	333.27	1,568.0	399.3	-201.1	447.1	0.00	0.00	0.00
Nacimiento									
1,700.0	33.81	333.27	1,592.9	414.2	-208.6	463.8	0.00	0.00	0.00
1,800.0	33.81	333.27	1,676.0	463.9	-233.7	519.4	0.00	0.00	0.00
1,900.0	33.81	333.27	1,759.1	513.6	-258.7	575.1	0.00	0.00	0.00
2,000.0	33.81	333.27	1,842.2	563.3	-283.7	630.7	0.00	0.00	0.00
2,100.0	33.81	333.27	1,925.3	613.0	-308.8	686.4	0.00	0.00	0.00
2,200.0	33.81	333.27	2,008.4	662.7	-333.8	742.0	0.00	0.00	0.00
2,300.0	33.81	333.27	2,091.4	712.4	-358.8	797.7	0.00	0.00	0.00
2,400.0	33.81	333.27	2,174.5	762.1	-383.9	853.3	0.00	0.00	0.00
2,500.0	33.81	333.27	2,257.6	811.8	-408.9	909.0	0.00	0.00	0.00
2,600.0	33.81	333.27	2,340.7	861.5	-434.0	964.6	0.00	0.00	0.00
2,700.0	33.81	333.27	2,423.8	911.2	-459.0	1,020.3	0.00	0.00	0.00
2,800.0	33.81	333.27	2,506.9	960.9	-484.0	1,075.9	0.00	0.00	0.00
2,900.0	33.81	333.27	2,589.9	1,010.6	-509.1	1,131.6	0.00	0.00	0.00
3,000.0	33.81	333.27	2,673.0	1,060.3	-534.1	1,187.2	0.00	0.00	0.00
3,100.0	33.81	333.27	2,756.1	1,110.0	-559.1	1,242.9	0.00	0.00	0.00
3,152.8	33.81	333.27	2,800.0	1,136.3	-572.3	1,272.3	0.00	0.00	0.00
Ojo Alamo									
3,181.9	33.81	333.27	2,824.2	1,150.7	-579.6	1,288.5	0.00	0.00	0.00
3,200.0	33.27	333.27	2,839.2	1,159.6	-584.1	1,298.5	3.00	-3.00	0.00
3,300.0	30.27	333.27	2,924.3	1,206.7	-607.8	1,351.1	3.00	-3.00	0.00
3,352.6	28.69	333.27	2,970.0	1,229.8	-619.4	1,377.0	3.00	-3.00	0.00
Kirtland									
3,400.0	27.27	333.27	3,011.9	1,249.6	-629.5	1,399.2	3.00	-3.00	0.00
3,431.5	26.33	333.27	3,040.0	1,262.3	-635.8	1,413.4	3.00	-3.00	0.00
Stage Tool									
3,500.0	24.27	333.27	3,101.9	1,288.5	-649.0	1,442.7	3.00	-3.00	0.00
3,508.8	24.01	333.27	3,110.0	1,291.7	-650.6	1,446.3	3.00	-3.00	0.00
Fruitland									
3,600.0	21.27	333.27	3,194.1	1,323.0	-666.4	1,481.4	3.00	-3.00	0.00
3,700.0	18.27	333.27	3,288.2	1,353.2	-681.6	1,515.2	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 Wells
Site: San Juan 30 Wells
Well: SJ 30-5 #113N
Wellbore: Principal Wellbore
Design: Plan #1

Local Co-ordinate Reference: Well SJ 30-5 #113N
TVD Reference: RKB @ 6740.0ft (H&P RIGS)
MD Reference: RKB @ 6740.0ft (H&P 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)
3,800.0	15.27	333.27	3,384.0	1,379.0	-694.6	1,544.1	3.00	-3.00	0.00
3,900.0	12.27	333.27	3,481.1	1,400.3	-705.3	1,567.9	3.00	-3.00	0.00
4,000.0	9.27	333.27	3,579.3	1,417.0	-713.7	1,586.6	3.00	-3.00	0.00
4,089.6	6.58	333.27	3,668.0	1,428.0	-719.3	1,598.9	3.00	-3.00	0.00
Pictured Cliffs									
4,100.0	6.27	333.27	3,678.4	1,429.0	-719.8	1,600.1	3.00	-3.00	0.00
4,200.0	3.27	333.27	3,778.0	1,436.5	-723.6	1,608.4	3.00	-3.00	0.00
4,209.0	3.00	333.27	3,787.0	1,436.9	-723.8	1,608.9	3.00	-3.00	0.00
Lewis									
4,309.0	0.00	0.00	3,887.0	1,439.2	-725.0	1,611.5	3.00	-3.00	0.00
Int - SJ 30-5 #113N - ICP									
4,400.0	0.00	0.00	3,978.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
4,500.0	0.00	0.00	4,078.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
4,600.0	0.00	0.00	4,178.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
4,700.0	0.00	0.00	4,278.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
4,800.0	0.00	0.00	4,378.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
4,895.0	0.00	0.00	4,473.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
Huerfano Bentonite									
4,900.0	0.00	0.00	4,478.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
5,000.0	0.00	0.00	4,578.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
5,100.0	0.00	0.00	4,678.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
5,200.0	0.00	0.00	4,778.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
5,271.0	0.00	0.00	4,849.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
Chacra									
5,300.0	0.00	0.00	4,878.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
5,400.0	0.00	0.00	4,978.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
5,500.0	0.00	0.00	5,078.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
5,600.0	0.00	0.00	5,178.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
5,700.0	0.00	0.00	5,278.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
5,800.0	0.00	0.00	5,378.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
5,820.0	0.00	0.00	5,398.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
Upper Cliffhouse									
5,900.0	0.00	0.00	5,478.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
6,000.0	0.00	0.00	5,578.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
6,100.0	0.00	0.00	5,678.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
6,102.0	0.00	0.00	5,680.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
Massive Cliffhouse									
6,148.0	0.00	0.00	5,726.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
Menefee									
6,200.0	0.00	0.00	5,778.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
6,300.0	0.00	0.00	5,878.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
6,350.0	0.00	0.00	5,928.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
Point Lookout									
6,400.0	0.00	0.00	5,978.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
6,500.0	0.00	0.00	6,078.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
6,600.0	0.00	0.00	6,178.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
6,700.0	0.00	0.00	6,278.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
6,778.0	0.00	0.00	6,356.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
Mancos									
6,800.0	0.00	0.00	6,378.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
6,900.0	0.00	0.00	6,478.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
7,000.0	0.00	0.00	6,578.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00

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Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 30-5 #113N
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6740.0ft (H&P RIGS)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6740.0ft (H&P RIGS)
Site:	San Juan 30 Wells	North Reference:	True
Well:	SJ 30-5 #113N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #1		

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	6,678.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
7,200.0	0.00	0.00	6,778.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
7,300.0	0.00	0.00	6,878.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
7,400.0	0.00	0.00	6,978.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
7,500.0	0.00	0.00	7,078.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
7,600.0	0.00	0.00	7,178.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
7,651.0	0.00	0.00	7,229.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
Upper Gallup									
7,700.0	0.00	0.00	7,278.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
7,800.0	0.00	0.00	7,378.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
7,900.0	0.00	0.00	7,478.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
8,000.0	0.00	0.00	7,578.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
8,100.0	0.00	0.00	7,678.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
8,200.0	0.00	0.00	7,778.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
8,300.0	0.00	0.00	7,878.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
8,367.0	0.00	0.00	7,945.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
Greenhorn									
8,400.0	0.00	0.00	7,978.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
8,417.0	0.00	0.00	7,995.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
Graneros									
8,500.0	0.00	0.00	8,078.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
8,529.0	0.00	0.00	8,107.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
Two Wells									
8,546.0	0.00	0.00	8,124.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
Paguete									
8,548.0	0.00	0.00	8,126.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
Upper Cubero									
8,592.0	0.00	0.00	8,170.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
Lower Cubero									
8,600.0	0.00	0.00	8,178.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
8,662.0	0.00	0.00	8,240.0	1,439.2	-725.0	1,611.5	0.00	0.00	0.00
Encinal - Prod - SJ 30-5 #113N - PCP									

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									
SJ 30-5 #113N - ICP	0.00	0.00	3,887.0	1,439.2	-725.0	2,122,185.39	647,738.40	36° 49' 52.103 N	107° 19' 42.680 W
- plan hits target center									
- Circle (radius 100.0)									
SJ 30-5 #113N - PCP	0.00	0.00	8,240.0	1,439.2	-725.0	2,122,185.39	647,738.40	36° 49' 52.103 N	107° 19' 42.680 W
- plan hits target center									
- Circle (radius 100.0)									

ConocoPhillips or its affiliates

Planning Report

Database: EDM Central Planning
Company: ConocoPhillips SJB
Project: San Juan Basin - New Mexico Wells
Site: San Juan 30 Wells
Well: SJ 30-5 #113N
Wellbore: Principal Wellbore
Design: Plan #1

Local Co-ordinate Reference: Well SJ 30-5 #113N
TVD Reference: RKB @ 6740.0ft (H&P RIGS)
MD Reference: RKB @ 6740.0ft (H&P RIGS)
North Reference: True
Survey Calculation Method: Minimum Curvature

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
4,309.0	3,887.0	Int	7	8-3/4	
8,662.0	8,240.0	Prod	4-1/2	6-1/4	
230.0	230.0	Surf	9-5/8	12-1/4	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
8,546.0	8,124.0	Paguate		0.00		
4,895.0	4,473.0	Huerfano Bentonite		0.00		
3,431.5	3,040.0	Stage Tool		0.00		
3,152.8	2,800.0	Ojo Alamo		0.00		
5,271.0	4,849.0	Chacra		0.00		
8,592.0	8,170.0	Lower Cubero		0.00		
8,529.0	8,107.0	Two Wells		0.00		
3,352.6	2,970.0	Kirtland		0.00		
8,548.0	8,126.0	Upper Cubero		0.00		
8,662.0	8,240.0	Encinal		0.00		
6,778.0	6,356.0	Mancos		0.00		
7,651.0	7,229.0	Upper Gallup		0.00		
1,670.0	1,568.0	Nacimiento		0.00		
5,820.0	5,398.0	Upper Cliffhouse		0.00		
6,148.0	5,726.0	Menefee		0.00		
4,209.0	3,787.0	Lewis		0.00		
6,350.0	5,928.0	Point Lookout		0.00		
3,508.8	3,110.0	Fruitland		0.00		
8,367.0	7,945.0	Greenhorn		0.00		
8,417.0	7,995.0	Graneros		0.00		
6,102.0	5,680.0	Massive Cliffhouse		0.00		
4,089.6	3,668.0	Pictured Cliffs		0.00		

REFERENCE INFORMATION

RKB @ 6740.0ft (H&P RIGS)
Ground Elevation 6724.0
Reference Lat: 36° 49' 37.872 N
Reference Long: 107° 19' 33.763 W

Project: San Juan Basin - New Mexico Well
Site: San Juan 30 Wells
Well: SJ 30-5 #113N
Wellbore: Principal Wellbore
Design: Plan #1

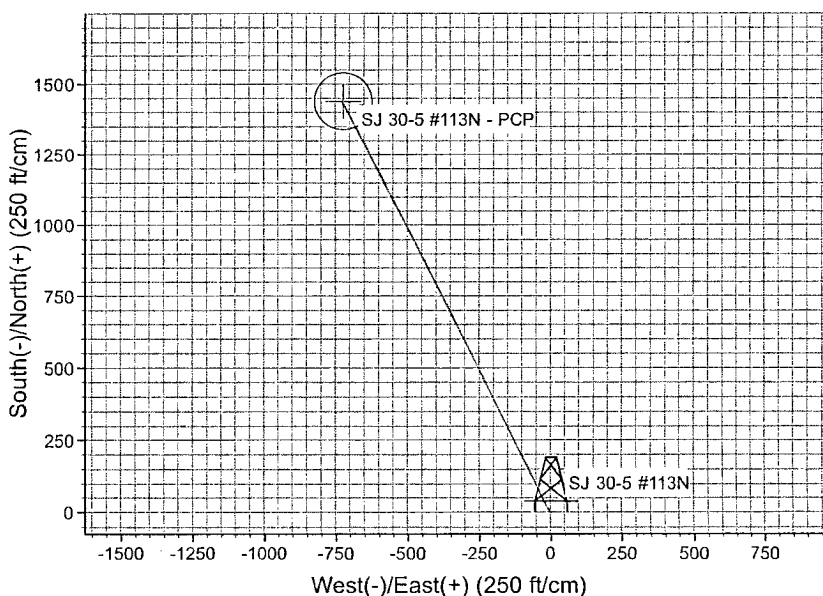
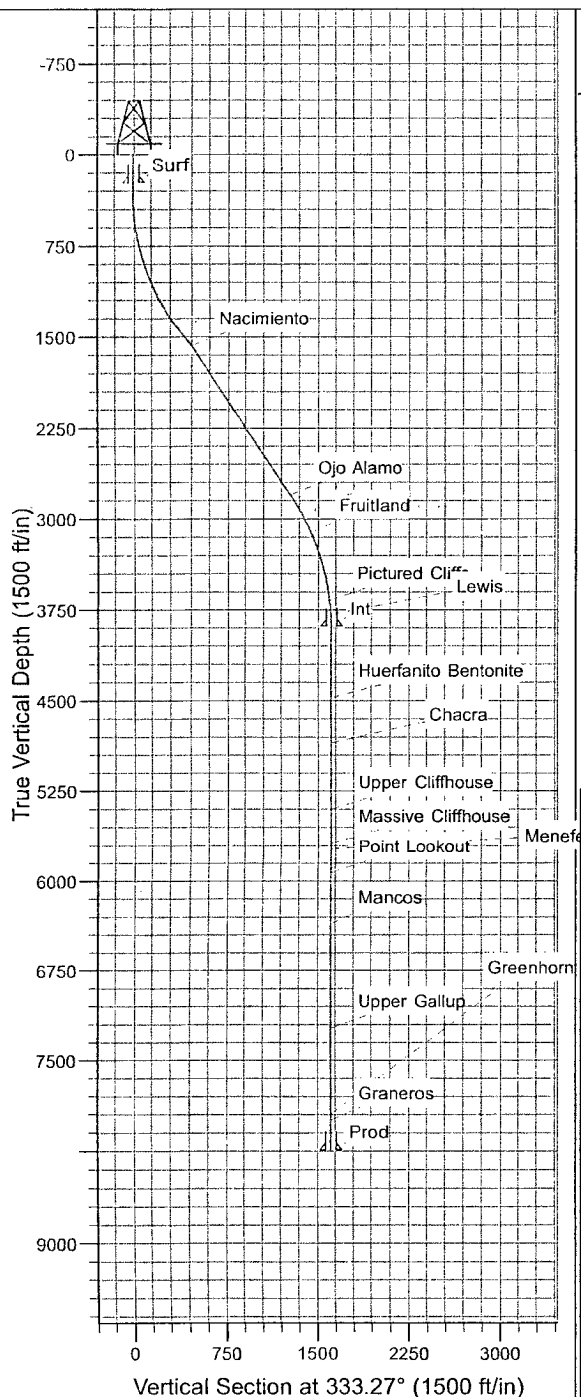
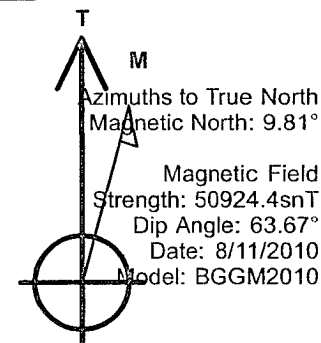
ConocoPhillips

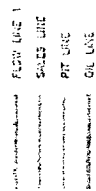
SECTION DETAILS

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	320.0	0.00	0.00	320.0	0.0	0.0	0.00	0.00	0.0	
3	1447.1	33.81	333.27	1382.8	288.5	-145.3	3.00	333.27	323.1	
4	3181.9	33.81	333.27	2824.2	1150.7	-579.6	0.00	0.00	1288.5	
5	4309.0	0.00	0.00	3887.0	1439.2	-725.0	3.00	180.00	1611.5	SJ 30-5 #113N - ICP
6	8662.0	0.00	0.00	8240.0	1439.2	-725.0	0.00	0.00	1611.5	SJ 30-5 #113N - PCP

FORMATION TOP DETAILS

VDP	MD	Path	Formation
1568.0	1670.0		Nacimiento
2800.0	3152.8		Ojo Alamo
2970.0	3352.6		Kirtland
3040.0	3431.5		Stage Tool
3110.0	3508.8		Fruitland
3668.0	4089.6		Pictured Cliffs
3787.0	4209.0		Lewis
4473.0	4895.0		Huerfanito Bentonite
4849.0	5271.0		Chacra
5398.0	5820.0		Upper Cliffhouse
5680.0	6102.0		Massive Cliffhouse
5726.0	6148.0		Menefee
5928.0	6350.0		Point Lookout
6356.0	6778.0		Mancos
7229.0	7651.0		Upper Gallup
7945.0	8367.0		Greenhorn
7995.0	8417.0		Graneros
8107.0	8529.0		Two Wells
8124.0	8546.0		Paguate
8126.0	8548.0		Upper Cubero
8170.0	8592.0		Lower Cubero
8240.0	8662.0		Encinal





10-11-68

[illegible]

CONOCOPHILLIPS COMPANY

SAN JUAN 30-5 UNIT #113N

2639' FNL, 2619' FEL

SECTION 11, T-30-N, R-5-W, N.M.P.M.

RIO ARriba COUNTY, NEW MEXICO

NAD 83 LAT.: 36.827193°N LONG.: 107.326646°W

GROUND ELEV.: 6724 FIN. ELEV.: 6710 NAVD88

NEW ACCESS 103.0'

FROM BLOOMFIELD, NEW MEXICO:

- GO 37.7 MILES EAST ON HWY. 64 (MILE MARKER 102.3) AND TURN LEFT (NORTH) ON HWY. 527, A.K.A. SIMMS MARINA ROAD.
- GO 8.0 MILES NORTH ON HWY. 527. TURN RIGHT ONTO ROSA ROAD.
- GO 6.4 MILES ALONG ROSA ROAD, CROSSING LA JARA WASH AND TURN RIGHT (WESTERLY) AT BLM SIGN.
- GO 5.2 MILES CROSSING LA FRAGUA WASH AND STAY ON MAIN ROAD HEADING EAST TOWARD THE "DEAD COTTONWOOD BY STOCK POND" IN THE SOUTHEAST PART OF SECTION 16, T-30-N, R-5-W. TURN LEFT (NORTH).
- GO 0.15 MILES NORTH AND TURN RIGHT JUST PAST THE "DEAD COTTONWOOD BY STOCK POND."
- GO 2.1 MILES NORTH AND EAST INTO LOPEZ CANYON, CROSSING INTO CARSON NATIONAL FOREST IN THE NORTHEAST PART OF SECTION 15, T-30-N, R-5-W. TURN LEFT (NORTH).
- GO 0.8 MILES NORTH, CROSSING LOPEZ WASH AND CLIMBING UPHILL ONTO A SMALL MESA. BEGIN 103.0' NEW ACCESS ON RIGHT.