

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 9. Well Number 113M
4.	Location of Well Surf: Unit F (SENW), 2608' FNL & 2591' FWL BH: Unit E (SWNW), 2590' FNL & 1035' FWL Surf: Latitude: 36.827278° N (NAD83) Longitude: 107.326866° W BH: Latitude: 36.827359° N (NAD83) Longitude: 107.332182° W		10. Field, Pool, Wildcat Basin DK/Blanco MV 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 11, T30N, R5W API # 30-039-31034
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 1035'		
16.	Acres in Lease 1,886.39 Acrs	17. Acres Assigned to Well 320 Acres W/2	
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 113N (MV/DK)		
19.	Proposed Depth 8209'	20. Rotary or Cable Tool Rotary	
21.	Elevations (DF, FT, GR, Etc.) 6710' GL	22. Approx. Date Work Will Start	
23.	Proposed Casing and Cementing Program See Operations Plan attached		
24.	Authorized by: <u>Brandie Blakley</u> Brandie Blakley (Staff Regulatory Technician)	<u>2-28-11</u> Date	

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

APR 13 2011

NMOC

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

A COMPLETE C-144 MUST BE SUBMITTED TO AND APPROVED BY THE NMOC FOR: A PIT, CLOSED LOOP SYSTEM, BELOW GRADE TANK, OR PROPOSED ALTERNATIVE METHOD, PURSUANT TO NMOC PART 19.15.17, PRIOR TO THE USE OR CONSTRUCTION OF THE ABOVE APPLICATIONS.

Held C104
Directional Survey
"Is Drilled" plat

DIST. 3
OIL CONS. DIV.
RCVD APR 5 '11

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

☐ AMENDED REPORT

Farmington Field Office

Survey of Land Measurement

WELL LOCATION AND ACREAGE DEDICATION STATEMENT

¹ API Number 30-039- 31034	² Pool Code 71599 / 72319	³ Pool Name BASIN DAKOTA / BLANCO MESAVERDE
⁴ Property Code 17260 31327	⁵ Property Name SAN JUAN 30-5 UNIT	
⁷ OGRID No. 217817	⁸ Operator Name CONOCOPHILLIPS COMPANY	⁶ Well Number 113M
		⁹ Elevation 6710

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
F	11	30-N	5-W		2608	NORTH	2591	WEST	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
E	11	30-N	5-W		2590	NORTH	1035	WEST	RIO ARRIBA

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

¹⁶ GLO N 89°53'22" W 1916 N 89°48' E 5279.6' (M) 5280.0' (R) 2590' 1035' 2591' N 89°12'37" W 1556.0'	BOTTOM HOLE NAD 83 LAT: 36.827359° N LONG: 107.332182° W NAD 27 LAT: 36°49.641189° N LONG: 107°19.894884° W	5269.1' (M) 5260.2' (R) GLO 1916	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. <i>Crystal Tafoya 12/10/09</i> Signature Crystal Tafoya Printed Name Regulatory Technician Title and E-mail Address December 10, 2009 Date
	WELL FLAG NAD 83 LAT: 36.827278° N LONG: 107.326866° W NAD 27 LAT: 36°49.636300° N LONG: 107°19.575957° W	BASIS OF BEARING IS THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, WEST ZONE, NAD83 AS DETERMINED BY GPS OBSERVATION AND NGS/OPUS SOLUTION.	

W/2 DEDICATED
ACREAGE
USA SF-080538
SECTION 11,
T-30-N, R-5-W

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 30-5 UNIT 113M

DEVELOPMENT

Lease:		AFE #: WAN.CDR.8180		AFE \$: 1,074,056.94	
Field Name: SAN JUAN		Rig: XXX 2013 Holding Rig		State: NM	County: RIO ARRIBA
Geologist:		Phone:		Geophysicist:	
Geoscientist:		Phone:		Prod. Engineer:	
Res. Engineer: McKee, Cory J		Phone: +1 505-326-9826		Proj. Field Lead:	
Primary Objective (Zones):					
Zone	Zone Name				
FRR	BASIN DAKOTA (PRORATED GAS)				
RON	BLANCO MESAVERDE (PRORATED GAS)				
Location: Surface					
Datum Code: NAD 27		Directional			
Latitude: 36.827271	Longitude: -107.326265	X:	Y:	Section: 11	Range: 005W
Footage X: 2591 FWL	Footage Y: 2608 FNL	Elevation: 6710	(FT)	Township: 030N	
Tolerance:					
Location: Bottom Hole					
Datum Code: NAD 27		Directional			
Latitude: 36.827352	Longitude: -107.331581	X:	Y:	Section: 11	Range: 005W
Footage X: 1035 FWL	Footage Y: 2590 FNL	Elevation:	(FT)	Township: 030N	
Tolerance:					
Location Type: Restricted Start Date (Est.): 1/1/2013 Completion Date: Date In Operation:					
Formation Data: Assume KB = 6726 Units = FT					
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)
Surface Casing	230	6496		☐	12-1/4 hole. 230' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.
NACIMIENTO	1554	5172		☐	
OJO ALAMO	2786	3940		☐	
KIRTLAND	2955	3771		☐	
FRUITLAND	3096	3630		☐	Possible Gas
PICTURED CLIFFS	3654	3072		☐	
LEWIS	3765	2961		☐	
Intermediate Casing	3865	2861		☐	128 8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 955 cuft. Circulate cement to surface.
HUERFANITO BENTONITE	4448	2278		☐	
CHACRA	4816	1910		☐	
UPPER CLIFF HOUSE	5370	1356		☐	Gas; Est. Top Perf - 5371 (1354)
MASSIVE CLIFF HOUSE	5652	1074		☐	526 Gas; Cliffhouse is dry
MENEFEE	5696	1030		☐	
POINT LOOKOUT	5901	825		☐	
MANCOS	6320	406		☐	
UPPER GALLUP	7194	-468		☐	
GREENHORN	7912	-1186		☐	
GRANEROS	7962	-1236		☐	
TWO WELLS	8076	-1350		☐	3157 Gas
PAGUATE	8089	-1363		☐	
UPPER CUBERO	8098	-1372		☐	

PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 30-5 UNIT 113M

DEVELOPMENT

LOWER CUBERO	8138	-1412	☐	Est. Btm Perf - 8193 (- 1468) based on offset wells
ENCINAL	8209	-1483	☐	TD - T/ENCN
Total Depth	8209	-1483	☐	222 6-1/4" hole, 4-1/2" 11.6 ppf, L-80, LTC/ BTC casing. Cement w/ 591 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	SJ 30-5 Unit 73	30N 5W 10 SE NW NE
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
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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

REFERENCE INFORMATION

RKB @ 6726.0ft (H&P RIGS)
Ground Elevation 6710.0
Reference Lat: 36° 49' 38.178 N
Reference Long: 107° 19' 34.557 W

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

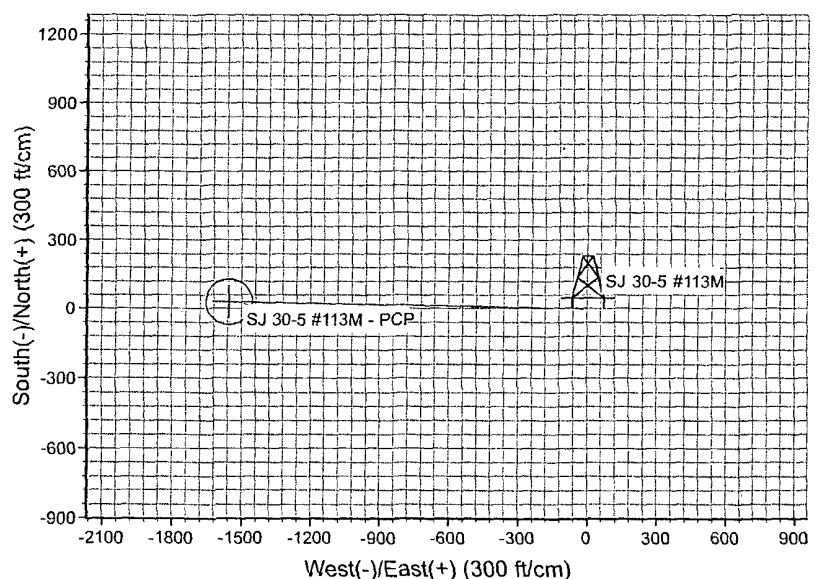
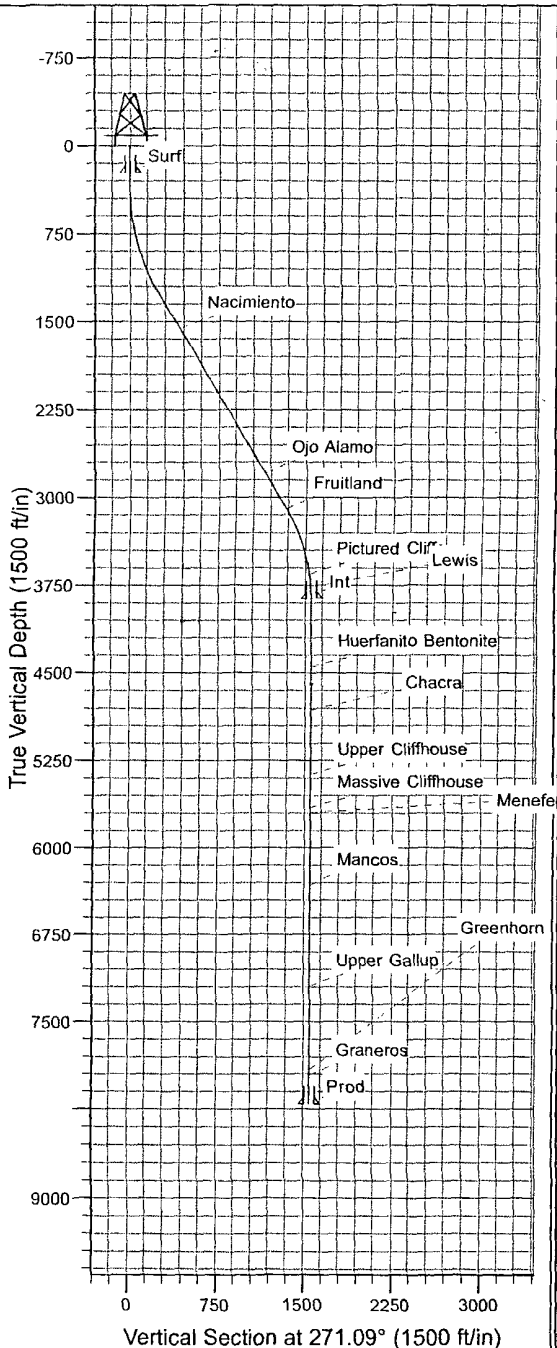
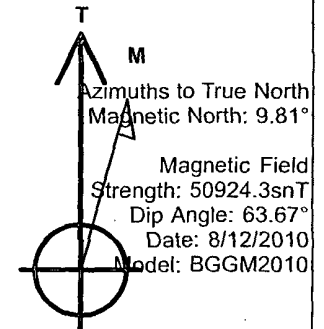
ConocoPhillips

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	1340.3	30.61	271.09	1292.4	5.1	-266.1	3.00	271.09	266.1	
4	3481.9	30.61	271.09	3135.7	25.9	-1356.3	0.00	0.00	1356.6	
5	4247.1	0.00	0.00	3865.0	29.7	-1555.9	4.00	180.00	1556.1	SJ 30-5 #113M - ICP
6	8591.1	0.00	0.00	8209.0	29.7	-1555.9	0.00	0.00	1556.1	SJ 30-5 #113M - PCP

FORMATION TOP DETAILS

VDPath	MDPath	Formation
1554.0	1644.2	Nacimiento
2786.0	3075.6	Ojo Alamo
2955.0	3272.0	Kirtland
3026.0	3354.5	Stage Tool
3096.0	3435.8	Fruitland
3654.0	4035.4	Pictured Cliffs
3765.0	4147.0	Lewis
4448.0	4830.1	Huerfanito Bentonite
4816.0	5198.1	Chacra
5370.0	5752.1	Upper Cliffhouse
5652.0	6034.1	Massive Cliffhouse
5696.0	6078.1	Menefee
5901.0	6283.1	Point Lookout
6320.0	6702.1	Mancos
7194.0	7576.1	Upper Gallup
7912.0	8294.1	Greenhorn
7962.0	8344.1	Graneros
8076.0	8458.1	Two Wells
8089.0	8471.1	Paguate
8098.0	8480.1	Upper Cubero
8138.0	8520.1	Lower Cubero
8208.0	8590.1	Encinal



ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 30-5 #113M
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6726.0ft (H&P RIGS)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6726.0ft (H&P RIGS)
Site:	San Juan 30 Wells	North Reference:	True
Well:	SJ 30-5 #113M	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #1		

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
From:	Lat/Long	Easting:	628,365.80 ft
Position Uncertainty:	15.0 ft	Slot Radius:	"
		Latitude:	36° 48' 28.968 N
		Longitude:	107° 23' 41.454 W
		Grid Convergence:	0.26 °

Well:	SJ 30-5 #113M, Directional "S" Curve Long, Lewis not included		
Well Position	+N/-S	0.0 ft	Northing:
	+E/-W	0.0 ft	Easting:
Position Uncertainty	3.5 ft	Wellhead Elevation:	ft
		Latitude:	36° 49' 38.178 N
		Longitude:	107° 19' 34.557 W
		Ground Level:	6,710.0 ft

Wellbore:	Principal Wellbore				
Magnetics:	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	BGGM2010	8/12/2010	9.81	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	271.09	

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	
1,340.3	30.61	271.09	1,292.4	5.1	-266.1	3.00	3.00	0.00	271.09	
3,481.9	30.61	271.09	3,135.7	25.9	-1,356.3	0.00	0.00	0.00	0.00	
4,247.1	0.00	0.00	3,865.0	29.7	-1,555.9	4.00	-4.00	0.00	180.00	SJ 30-5 #113M - ICP
8,591.1	0.00	0.00	8,209.0	29.7	-1,555.9	0.00	0.00	0.00	0.00	SJ 30-5 #113M - PCP

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 #113M
Wellbore: Principal Wellbore
Design: Plan #1

Local Co-ordinate Reference: Well SJ 30-5 #113M
TVD Reference: RKB @ 6726.0ft (H&P RIGS)
MD Reference: RKB @ 6726.0ft (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	271.09	400.0	0.0	-1.7	1.7	3.00	3.00	0.00
500.0	5.40	271.09	499.7	0.2	-8.5	8.5	3.00	3.00	0.00
600.0	8.40	271.09	599.0	0.4	-20.5	20.5	3.00	3.00	0.00
700.0	11.40	271.09	697.5	0.7	-37.7	37.7	3.00	3.00	0.00
800.0	14.40	271.09	795.0	1.1	-60.0	60.0	3.00	3.00	0.00
900.0	17.40	271.09	891.1	1.7	-87.4	87.4	3.00	3.00	0.00
1,000.0	20.40	271.09	985.7	2.3	-119.8	119.8	3.00	3.00	0.00
1,100.0	23.40	271.09	1,078.5	3.0	-157.0	157.1	3.00	3.00	0.00
1,200.0	26.40	271.09	1,169.2	3.8	-199.1	199.2	3.00	3.00	0.00
1,300.0	29.40	271.09	1,257.6	4.7	-245.9	246.0	3.00	3.00	0.00
1,340.3	30.61	271.09	1,292.4	5.1	-266.1	266.1	3.00	3.00	0.00
1,400.0	30.61	271.09	1,343.8	5.7	-296.5	296.5	0.00	0.00	0.00
1,500.0	30.61	271.09	1,429.9	6.6	-347.4	347.4	0.00	0.00	0.00
1,600.0	30.61	271.09	1,516.0	7.6	-398.3	398.3	0.00	0.00	0.00
1,644.2	30.61	271.09	1,554.0	8.0	-420.8	420.8	0.00	0.00	0.00
Nacimiento									
1,700.0	30.61	271.09	1,602.0	8.6	-449.2	449.3	0.00	0.00	0.00
1,800.0	30.61	271.09	1,688.1	9.5	-500.1	500.2	0.00	0.00	0.00
1,900.0	30.61	271.09	1,774.2	10.5	-551.0	551.1	0.00	0.00	0.00
2,000.0	30.61	271.09	1,860.2	11.5	-601.9	602.0	0.00	0.00	0.00
2,100.0	30.61	271.09	1,946.3	12.5	-652.8	652.9	0.00	0.00	0.00
2,200.0	30.61	271.09	2,032.4	13.4	-703.7	703.8	0.00	0.00	0.00
2,300.0	30.61	271.09	2,118.4	14.4	-754.6	754.8	0.00	0.00	0.00
2,400.0	30.61	271.09	2,204.5	15.4	-805.5	805.7	0.00	0.00	0.00
2,500.0	30.61	271.09	2,290.6	16.3	-856.4	856.6	0.00	0.00	0.00
2,600.0	30.61	271.09	2,376.6	17.3	-907.4	907.5	0.00	0.00	0.00
2,700.0	30.61	271.09	2,462.7	18.3	-958.3	958.4	0.00	0.00	0.00
2,800.0	30.61	271.09	2,548.8	19.2	-1,009.2	1,009.3	0.00	0.00	0.00
2,900.0	30.61	271.09	2,634.8	20.2	-1,060.1	1,060.3	0.00	0.00	0.00
3,000.0	30.61	271.09	2,720.9	21.2	-1,111.0	1,111.2	0.00	0.00	0.00
3,075.6	30.61	271.09	2,786.0	21.9	-1,149.5	1,149.7	0.00	0.00	0.00
Ojo Alamo									
3,100.0	30.61	271.09	2,807.0	22.2	-1,161.9	1,162.1	0.00	0.00	0.00
3,200.0	30.61	271.09	2,893.0	23.1	-1,212.8	1,213.0	0.00	0.00	0.00
3,272.0	30.61	271.09	2,955.0	23.8	-1,249.4	1,249.7	0.00	0.00	0.00
Kirtland									
3,300.0	30.61	271.09	2,979.1	24.1	-1,263.7	1,263.9	0.00	0.00	0.00
3,354.5	30.61	271.09	3,026.0	24.6	-1,291.4	1,291.7	0.00	0.00	0.00
Stage Tool									
3,400.0	30.61	271.09	3,065.2	25.1	-1,314.6	1,314.9	0.00	0.00	0.00
3,435.8	30.61	271.09	3,096.0	25.4	-1,332.8	1,333.1	0.00	0.00	0.00
Fruitland									
3,481.9	30.61	271.09	3,135.7	25.9	-1,356.3	1,356.6	0.00	0.00	0.00
3,500.0	29.88	271.09	3,151.3	26.0	-1,365.4	1,365.7	4.00	-4.00	0.00
3,600.0	25.88	271.09	3,239.7	26.9	-1,412.2	1,412.4	4.00	-4.00	0.00
3,700.0	21.88	271.09	3,331.1	27.7	-1,452.6	1,452.9	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 Wells
Site: San Juan 30 Wells
Well: SJ 30-5 #113M
Wellbore: Principal Wellbore
Design: Plan #1

Local Co-ordinate Reference: Well SJ 30-5 #113M
TVD Reference: RKB @ 6726.0ft (H&P RIGS)
MD Reference: RKB @ 6726.0ft (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	17.88	271.09	3,425.1	28.4	-1,486.6	1,486.9	4.00	-4.00	0.00	
3,900.0	13.88	271.09	3,521.3	28.9	-1,514.0	1,514.3	4.00	-4.00	0.00	
4,000.0	9.88	271.09	3,619.1	29.3	-1,534.6	1,534.9	4.00	-4.00	0.00	
4,035.4	8.47	271.09	3,654.0	29.4	-1,540.2	1,540.5	4.00	-4.00	0.00	
Pictured Cliffs										
4,100.0	5.88	271.09	3,718.1	29.5	-1,548.3	1,548.6	4.00	-4.00	0.00	
4,147.0	4.00	271.09	3,765.0	29.6	-1,552.4	1,552.6	4.00	-4.00	0.00	
Lewis										
4,200.0	1.88	271.09	3,817.9	29.7	-1,555.1	1,555.4	4.00	-4.00	0.00	
4,247.1	0.00	0.00	3,865.0	29.7	-1,555.9	1,556.1	4.00	-4.00	0.00	
Int - SJ 30-5 #113M - ICP										
4,300.0	0.00	0.00	3,917.9	29.7	-1,555.9	1,556.1	0.00	0.00	0.00	
4,400.0	0.00	0.00	4,017.9	29.7	-1,555.9	1,556.1	0.00	0.00	0.00	
4,500.0	0.00	0.00	4,117.9	29.7	-1,555.9	1,556.1	0.00	0.00	0.00	
4,600.0	0.00	0.00	4,217.9	29.7	-1,555.9	1,556.1	0.00	0.00	0.00	
4,700.0	0.00	0.00	4,317.9	29.7	-1,555.9	1,556.1	0.00	0.00	0.00	
4,800.0	0.00	0.00	4,417.9	29.7	-1,555.9	1,556.1	0.00	0.00	0.00	
4,830.1	0.00	0.00	4,448.0	29.7	-1,555.9	1,556.1	0.00	0.00	0.00	
Huerfano Bentonite										
4,900.0	0.00	0.00	4,517.9	29.7	-1,555.9	1,556.1	0.00	0.00	0.00	
5,000.0	0.00	0.00	4,617.9	29.7	-1,555.9	1,556.1	0.00	0.00	0.00	
5,100.0	0.00	0.00	4,717.9	29.7	-1,555.9	1,556.1	0.00	0.00	0.00	
5,198.1	0.00	0.00	4,816.0	29.7	-1,555.9	1,556.1	0.00	0.00	0.00	
Chacra										
5,200.0	0.00	0.00	4,817.9	29.7	-1,555.9	1,556.1	0.00	0.00	0.00	
5,300.0	0.00	0.00	4,917.9	29.7	-1,555.9	1,556.1	0.00	0.00	0.00	
5,400.0	0.00	0.00	5,017.9	29.7	-1,555.9	1,556.1	0.00	0.00	0.00	
5,500.0	0.00	0.00	5,117.9	29.7	-1,555.9	1,556.1	0.00	0.00	0.00	
5,600.0	0.00	0.00	5,217.9	29.7	-1,555.9	1,556.1	0.00	0.00	0.00	
5,700.0	0.00	0.00	5,317.9	29.7	-1,555.9	1,556.1	0.00	0.00	0.00	
5,752.1	0.00	0.00	5,370.0	29.7	-1,555.9	1,556.1	0.00	0.00	0.00	
Upper Cliffhouse										
5,800.0	0.00	0.00	5,417.9	29.7	-1,555.9	1,556.1	0.00	0.00	0.00	
5,900.0	0.00	0.00	5,517.9	29.7	-1,555.9	1,556.1	0.00	0.00	0.00	
6,000.0	0.00	0.00	5,617.9	29.7	-1,555.9	1,556.1	0.00	0.00	0.00	
6,034.1	0.00	0.00	5,652.0	29.7	-1,555.9	1,556.1	0.00	0.00	0.00	
Massive Cliffhouse										
6,078.1	0.00	0.00	5,696.0	29.7	-1,555.9	1,556.1	0.00	0.00	0.00	
Menefee										
6,100.0	0.00	0.00	5,717.9	29.7	-1,555.9	1,556.1	0.00	0.00	0.00	
6,200.0	0.00	0.00	5,817.9	29.7	-1,555.9	1,556.1	0.00	0.00	0.00	
6,283.1	0.00	0.00	5,901.0	29.7	-1,555.9	1,556.1	0.00	0.00	0.00	
Point Lookout										
6,300.0	0.00	0.00	5,917.9	29.7	-1,555.9	1,556.1	0.00	0.00	0.00	
6,400.0	0.00	0.00	6,017.9	29.7	-1,555.9	1,556.1	0.00	0.00	0.00	
6,500.0	0.00	0.00	6,117.9	29.7	-1,555.9	1,556.1	0.00	0.00	0.00	
6,600.0	0.00	0.00	6,217.9	29.7	-1,555.9	1,556.1	0.00	0.00	0.00	
6,700.0	0.00	0.00	6,317.9	29.7	-1,555.9	1,556.1	0.00	0.00	0.00	
6,702.1	0.00	0.00	6,320.0	29.7	-1,555.9	1,556.1	0.00	0.00	0.00	
Mancos										
6,800.0	0.00	0.00	6,417.9	29.7	-1,555.9	1,556.1	0.00	0.00	0.00	
6,900.0	0.00	0.00	6,517.9	29.7	-1,555.9	1,556.1	0.00	0.00	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 #113M
Wellbore: Principal Wellbore
Design: Plan #1

Local Co-ordinate Reference:
TVD Reference: RKB @ 6726.0ft (H&P RIGS)
MD Reference: RKB @ 6726.0ft (H&P RIGS)
North Reference: True
Survey Calculation Method: Minimum Curvature

Well SJ 30-5 #113M
RKB @ 6726.0ft (H&P RIGS)
RKB @ 6726.0ft (H&P RIGS)
True
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)
7,000.0	0.00	0.00	6,617.9	29.7	-1,555.9	1,556.1	0.00	0.00	0.00
7,100.0	0.00	0.00	6,717.9	29.7	-1,555.9	1,556.1	0.00	0.00	0.00
7,200.0	0.00	0.00	6,817.9	29.7	-1,555.9	1,556.1	0.00	0.00	0.00
7,300.0	0.00	0.00	6,917.9	29.7	-1,555.9	1,556.1	0.00	0.00	0.00
7,400.0	0.00	0.00	7,017.9	29.7	-1,555.9	1,556.1	0.00	0.00	0.00
7,500.0	0.00	0.00	7,117.9	29.7	-1,555.9	1,556.1	0.00	0.00	0.00
7,576.1	0.00	0.00	7,194.0	29.7	-1,555.9	1,556.1	0.00	0.00	0.00
Upper Gallup									
7,600.0	0.00	0.00	7,217.9	29.7	-1,555.9	1,556.1	0.00	0.00	0.00
7,700.0	0.00	0.00	7,317.9	29.7	-1,555.9	1,556.1	0.00	0.00	0.00
7,800.0	0.00	0.00	7,417.9	29.7	-1,555.9	1,556.1	0.00	0.00	0.00
7,900.0	0.00	0.00	7,517.9	29.7	-1,555.9	1,556.1	0.00	0.00	0.00
8,000.0	0.00	0.00	7,617.9	29.7	-1,555.9	1,556.1	0.00	0.00	0.00
8,100.0	0.00	0.00	7,717.9	29.7	-1,555.9	1,556.1	0.00	0.00	0.00
8,200.0	0.00	0.00	7,817.9	29.7	-1,555.9	1,556.1	0.00	0.00	0.00
8,294.1	0.00	0.00	7,912.0	29.7	-1,555.9	1,556.1	0.00	0.00	0.00
Greenhorn									
8,300.0	0.00	0.00	7,917.9	29.7	-1,555.9	1,556.1	0.00	0.00	0.00
8,344.1	0.00	0.00	7,962.0	29.7	-1,555.9	1,556.1	0.00	0.00	0.00
Graneros									
8,400.0	0.00	0.00	8,017.9	29.7	-1,555.9	1,556.1	0.00	0.00	0.00
8,458.1	0.00	0.00	8,076.0	29.7	-1,555.9	1,556.1	0.00	0.00	0.00
Two Wells									
8,471.1	0.00	0.00	8,089.0	29.7	-1,555.9	1,556.1	0.00	0.00	0.00
Paguate									
8,480.1	0.00	0.00	8,098.0	29.7	-1,555.9	1,556.1	0.00	0.00	0.00
Upper Cubero									
8,500.0	0.00	0.00	8,117.9	29.7	-1,555.9	1,556.1	0.00	0.00	0.00
8,520.1	0.00	0.00	8,138.0	29.7	-1,555.9	1,556.1	0.00	0.00	0.00
Lower Cubero									
8,590.1	0.00	0.00	8,208.0	29.7	-1,555.9	1,556.1	0.00	0.00	0.00
Encinal									
8,591.1	0.00	0.00	8,209.0	29.7	-1,555.9	1,556.1	0.00	0.00	0.00
SJ 30-5 #113M - 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
SJ 30-5 #113M - ICP	- plan hits target center - Circle (radius 100.0)	0.00	0.00	3,865.0	29.7	-1,555.9	2,120,802.13	646,850.34	36° 49' 38.471 N	107° 19' 53.693 W
SJ 30-5 #113M - PCP	- plan hits target center - Circle (radius 100.0)	0.00	0.00	8,209.0	29.7	-1,555.9	2,120,802.13	646,850.34	36° 49' 38.471 N	107° 19' 53.693 W

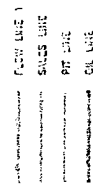
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MD Reference: RKB @ 6726.0ft (H&P RIGS)
North Reference: True
Survey Calculation Method: Minimum Curvature

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
8,591.1	8,209.0	Prod	4-1/2	6-1/4	
230.0	230.0	Surf	9-5/8	12-1/4	
4,247.1	3,865.0	Int	7	8-3/4	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,354.5	3,026.0	Stage Tool		0.00		
8,344.1	7,962.0	Graneros		0.00		
3,272.0	2,955.0	Kirtland		0.00		
8,520.1	8,138.0	Lower Cubero		0.00		
4,830.1	4,448.0	Huerfano Bentonite		0.00		
8,458.1	8,076.0	Two Wells		0.00		
6,702.1	6,320.0	Mancos		0.00		
5,752.1	5,370.0	Upper Cliffhouse		0.00		
6,283.1	5,901.0	Point Lookout		0.00		
3,435.8	3,096.0	Fruitland		0.00		
7,576.1	7,194.0	Upper Gallup		0.00		
8,590.1	8,208.0	Encinal		0.00		
8,480.1	8,098.0	Upper Cubero		0.00		
6,034.1	5,652.0	Massive Cliffhouse		0.00		
4,147.0	3,765.0	Lewis		0.00		
1,644.2	1,554.0	Nacimiento		0.00		
8,294.1	7,912.0	Greenhorn		0.00		
4,035.4	3,654.0	Pictured Cliffs		0.00		
8,471.1	8,089.0	Paguate		0.00		
6,078.1	5,696.0	Menefee		0.00		
3,075.6	2,786.0	Ojo Alamo		0.00		
5,198.1	4,816.0	Chacra		0.00		



15-1935

[illegible]

CONOCOPHILLIPS COMPANY

SAN JUAN 30-5 UNIT #113M

2608' FNL, 2591' FWL

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

RIO ARRIBA COUNTY, NEW MEXICO

NAD 83 LAT.: 36.827278°N LONG.: 107.326866°W

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 MI. NORTH, CROSSING LOPEZ WASH AND CLIMBING UPHILL ONTO A SMALL MESA. BEGIN 103.0' NEW ACCESS ON RIGHT.