

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

JUN 22 2011

Sundry Notices and Reports on Wells

Farmington Field Office
Bureau of Land Management
Lease Number
SP 2078917

1. Type of Well
GAS

2. Name of Operator

ConocoPhillips

3. Address & Phone No. of Operator

PO Box 4289, Farmington, NM 87499 (505) 326-9700

4. Location of Well, Footage, Sec., T, R, M

Surface: Unit F (SENW), 2431' FNL & 1706' FWL, Section 35, T29N, R5W, NMPM
BHL: Unit E(SWNW), 2550' FNL & 310' FWL, Section 35, T29N, R5W, NMPM

6. If Indian, All. or
Tribe Name

7. Unit Agreement Name
San Juan 29-5 Unit

8. Well Name & Number
San Juan 29-5 Unit 90N

9. API Well No.
30-039-30672

10. Field and Pool
Blanco MV / Basin DK

11. County and State
Rio Arriba, NM



12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA

Type of Submission

Type of Action

☒ Notice of Intent	☐ Abandonment	☐ Change of Plans	☒ Other -	☐ Move BHL
☐ Subsequent Report	☐ Recompletion	☐ New Construction		
☐ Final Abandonment	☐ Plugging	☐ Non-Routine Fracturing		
	☐ Casing Repair	☐ Water Shut off		
	☐ Altering Casing	☐ Conversion to Injection		

13. Describe Proposed or Completed Operations

ConocoPhillips requests permission to move the bottomhole location from the approved 1740' FNL, 450' FWL to 2550' FNL, 310' FWL. A revised C102 plat, project proposal and directional drill plan/plot are attached.

Both MV & DK are in the San Juan 29-5 Unit PA, therefore the proposed bottomhole location is not NSL.

Hold C104
for Directional Survey
and "As Drilled" plat

14. I hereby certify that the foregoing is true and correct.

Signed Dollie L. Busse Dollie L. Busse Title Staff Regulatory Technician Date 6/22/11

(This space for Federal or State Office use)

APPROVED BY Troy L. Salvors Title Petroleum Engineer Date 6/23/2011
CONDITION OF APPROVAL, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

Hold C104
for Directional Survey
and "As Drilled" plat

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

NMOC

CONDITIONS OF APPROVAL
Adhere to previously issued stipulations.

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

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

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

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

State of New Mexico
Energy, Minerals & Natural Resources Department

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

Form C-102
Revised July 16, 2010
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-30672	² Pool Code 71599 / 72319	BASIN ³ Pool Name BLANCO DAKOTA / MESA VERDE
⁴ Property Code 31325	⁵ Property Name SAN JUAN 29-5 UNIT	⁶ Well Number 90N
⁷ GRID No. 217817	⁸ Operator Name CONOCOPHILLIPS COMPANY	⁹ Elevation 7462

¹⁰ Surface Location

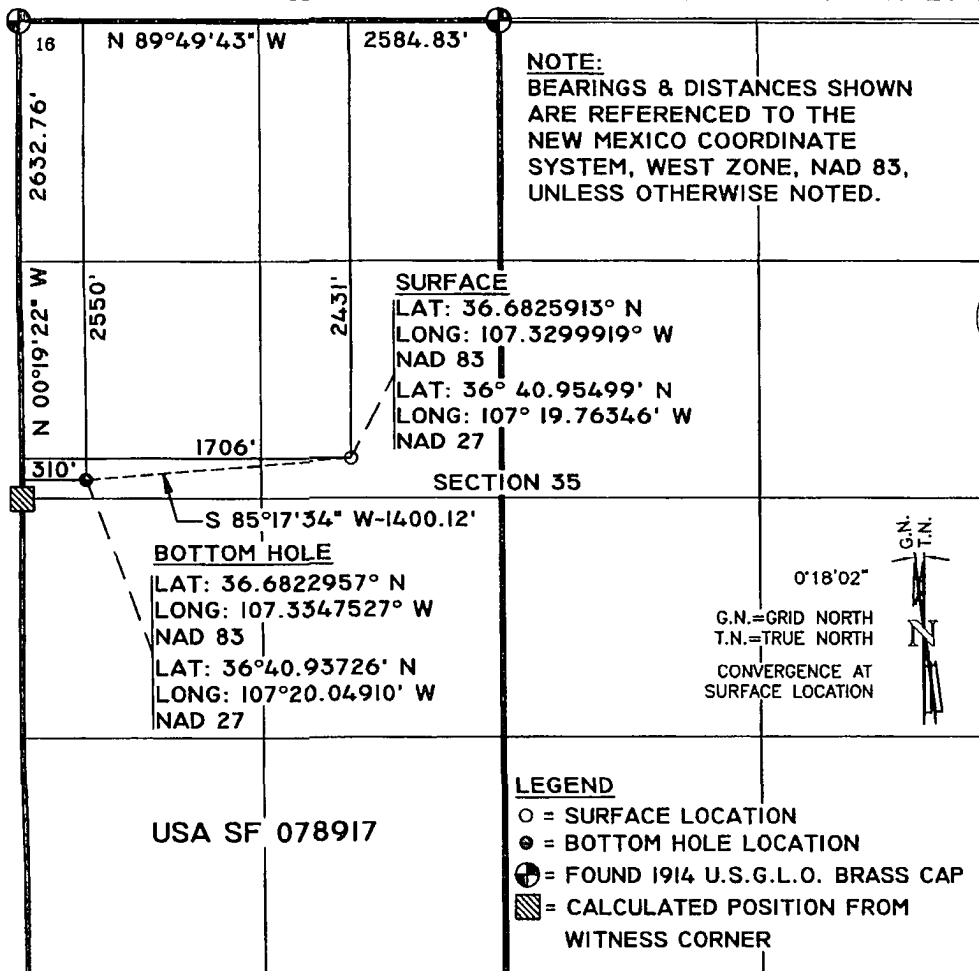
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	35	29 N	5 W		2431	NORTH	1706	WEST	RIO ARRIBA

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	35	29 N	5 W		2550	NORTH	310	WEST	RIO ARRIBA

¹² Dedicated Acres 320 (W/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 working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Dollie L. Busse 6/16/11
Signature Date
Dollie L. Busse
Printed Name

E-mail Address

¹⁸ SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

4/07/08

Date of Survey

Signature and Seal of Professional Surveyor:

Marshall W. Lindeen
MARSHALL W. LINDEEN
NEW MEXICO
17078
PROFESSIONAL SURVEYOR
17078
Certificate Number

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 29-5 UNIT 90N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7464		AFE \$: 1,805,098.12	
Field Name: SAN JUAN		Rig: Aztec Rig 711		State: NM	County: RIO ARRIBA
Geologist:		Phone:		Geophysicist:	
Geoscientist: Head, Chip F (Charles)		Phone: +1-505-326-9772		Prod. Engineer:	
Res. Engineer: Prabowo, Wahyu		Phone: +1-505-326-9797		Proj. Field Lead:	
Primary Objective (Zones):					
Zone	Zone Name				
FRR	BASIN DAKOTA (PRORATED GAS)				
RON	BLANCO MESAVERDE (PRORATED GAS)				
Location: Surface					
Latitude: 36.682583		Longitude: -107.329391		Datum Code: NAD 27	
Footage X: 1706 FWL		Footage Y: 2431 FNL		Elevation: 7462 (FT)	
Tolerance:		X:		Y:	
Section: 35		Range: 005W			
Location: Bottom Hole					
Latitude: 36.682288		Longitude: -107.334152		Datum Code: NAD 27	
Footage X: 310 FWL		Footage Y: 2550 FNL		Elevation: (FT)	
Tolerance:		X:		Y:	
Section: 35		Range: 005W			
Location Type: Restricted		Start Date (Est.): 1/1/2011		Completion Date:	
Date In Operation:		Formation Data: Assume KB = 7477 Units = FT			
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)
Surface Casing	230	7247		☐	12-1/4 hole. 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 181 cuft. Circulate cement to surface.
OJO ALAMO	3742	3735		☐	
KIRTLAND	3857	3620		☐	
FRUITLAND	4097	3380		☐	Possible Gas
PICTURED CLIFFS	4419	3058		☐	
LEWIS	4582	2895		☐	
Intermediate Casing	4682	2795		☐	8 3/4" Hole. 7", 23 ppf, J-55, STC Casing. Cement with 1115 cuft. Circulate cement to surface.
HUERFANITO BENTONITE	5062	2415		☐	
CHACRA	5417	2060		☐	
UPPER CLIFF HOUSE	6012	1465		☐	Gas
MASSIVE CLIFF HOUSE	6259	1218		☐	900 Gas
MENEFEE	6302	1175		☐	
POINT LOOKOUT	6604	873		☐	
MANCOS	6942	535		☐	
UPPER GALLUP	7820	-343		☐	
GREENHORN	8574	-1097		☐	
GRANEROS	8629	-1152		☐	
TWO WELLS	8699	-1222		☐	1400 Gas
UPPER CUBERO	8750	-1273		☐	
LOWER CUBERO	8810	-1333		☐	
OAK CANYON	8878	-1401		☐	

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 29-5 UNIT 90N

DEVELOPMENT

ENCINAL	8894	-1417	☐	
Total Depth	8895	-1418	☐	6-1/4" hole, 4-1/2" 11.6 ppf, J-55/L-80, LTC casing. Cement w/ 574 cuft. Circulate cement a minimum of 100' inside the previous casing string.

Reference Wells:

Reference Type	Well Name	Comments
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Logging Program:

Intermediate Logs: ☐ Log only if show ☐ GR/ILD ☒ Triple Combo ☒ Other

PC data well. eap 5-19-11

TD Logs: ☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other

Mud log from ~100' above the Greenhorn to TD. Mud loggers will call final TD. Est bottom perf ~20' above the est TD.

Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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ConocoPhillips SJB

San Juan Basin - New Mexico West Wells

San Juan 29 Wells

SJ 29-5 #90N

Principal Wellbore

Plan: Plan #1 2

Standard Planning Report

22 June, 2011

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 29-5 #90N
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 7477.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 7477.0ft (Original Well Elev)
Site:	San Juan 29 Wells	North Reference:	True
Well:	SJ 29-5 #90N	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		San Juan 29 Wells			
Site Position:		Northing:	2,094,594.32 ft	Latitude:	36° 45' 21.930 N
From:	Lat/Long	Easting:	582,092.15 ft	Longitude:	107° 33' 11.172 W
Position Uncertainty:	15.0 ft	Slot Radius:	6-1/8"	Grid Convergence:	0.17 °

Well	SJ 29-5 #90N					
Well Position	+N/-S	0.0 ft	Northing:	2,068,102.15 ft	Latitude:	36° 40' 57.299 N
	+E/-W	0.0 ft	Easting:	647,768.81 ft	Longitude:	107° 19' 45.808 W
Position Uncertainty		15.0 ft	Wellhead Elevation:	ft	Ground Level:	7,462.0 ft

Wellbore	Principal Wellbore				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	BGGM2007	6/27/2008	10.12	63.58	51,044

Design	Plan #1			
Audit Notes:				
Version:	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	265.59

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	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,689.5	23.79	265.59	1,655.6	-18.7	-242.7	2.00	2.00	0.00	265.59	
4,155.0	23.79	265.59	3,911.6	-95.1	-1,234.3	0.00	0.00	0.00	0.00	
4,947.9	0.00	0.00	4,682.0	-107.5	-1,396.1	3.00	-3.00	0.00	180.00	SJ 29-5 #90N - ICP
9,160.9	0.00	0.00	8,895.0	-107.5	-1,396.1	0.00	0.00	0.00	0.00	SJ 29-5 #90N - TD

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 29-5 #90N
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 7477 0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 7477 0ft (Original Well Elev)
Site:	San Juan 29 Wells	North Reference:	True
Well:	SJ 29-5 #90N	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)
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
9 5/8"									
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	2.00	265.59	600.0	-0.1	-1.7	1.7	2.00	2.00	0.00
700.0	4.00	265.59	699.8	-0.5	-7.0	7.0	2.00	2.00	0.00
800.0	6.00	265.59	799.5	-1.2	-15.6	15.7	2.00	2.00	0.00
900.0	8.00	265.59	898.7	-2.1	-27.8	27.9	2.00	2.00	0.00
1,000.0	10.00	265.59	997.5	-3.3	-43.4	43.5	2.00	2.00	0.00
1,100.0	12.00	265.59	1,095.6	-4.8	-62.4	62.6	2.00	2.00	0.00
1,200.0	14.00	265.59	1,193.1	-6.5	-84.8	85.1	2.00	2.00	0.00
1,300.0	16.00	265.59	1,289.6	-8.5	-110.6	111.0	2.00	2.00	0.00
1,400.0	18.00	265.59	1,385.3	-10.8	-139.8	140.2	2.00	2.00	0.00
1,500.0	20.00	265.59	1,479.8	-13.3	-172.3	172.8	2.00	2.00	0.00
1,600.0	22.00	265.59	1,573.2	-16.0	-208.0	208.6	2.00	2.00	0.00
1,689.5	23.79	265.59	1,655.6	-18.7	-242.7	243.4	2.00	2.00	0.00
1,700.0	23.79	265.59	1,665.2	-19.0	-246.9	247.7	0.00	0.00	0.00
1,800.0	23.79	265.59	1,756.7	-22.1	-287.1	288.0	0.00	0.00	0.00
1,900.0	23.79	265.59	1,848.2	-25.2	-327.4	328.3	0.00	0.00	0.00
2,000.0	23.79	265.59	1,939.7	-28.3	-367.6	368.7	0.00	0.00	0.00
2,100.0	23.79	265.59	2,031.2	-31.4	-407.8	409.0	0.00	0.00	0.00
2,200.0	23.79	265.59	2,122.7	-34.5	-448.0	449.3	0.00	0.00	0.00
2,300.0	23.79	265.59	2,214.2	-37.6	-488.2	489.7	0.00	0.00	0.00
2,400.0	23.79	265.59	2,305.7	-40.7	-528.5	530.0	0.00	0.00	0.00
2,500.0	23.79	265.59	2,397.3	-43.8	-568.7	570.4	0.00	0.00	0.00
2,600.0	23.79	265.59	2,488.8	-46.9	-608.9	610.7	0.00	0.00	0.00
2,700.0	23.79	265.59	2,580.3	-50.0	-649.1	651.0	0.00	0.00	0.00
2,800.0	23.79	265.59	2,671.8	-53.1	-689.3	691.4	0.00	0.00	0.00
2,900.0	23.79	265.59	2,763.3	-56.2	-729.5	731.7	0.00	0.00	0.00
3,000.0	23.79	265.59	2,854.8	-59.3	-769.8	772.0	0.00	0.00	0.00
3,100.0	23.79	265.59	2,946.3	-62.4	-810.0	812.4	0.00	0.00	0.00
3,200.0	23.79	265.59	3,037.8	-65.5	-850.2	852.7	0.00	0.00	0.00
3,300.0	23.79	265.59	3,129.3	-68.6	-890.4	893.1	0.00	0.00	0.00
3,400.0	23.79	265.59	3,220.8	-71.7	-930.6	933.4	0.00	0.00	0.00
3,500.0	23.79	265.59	3,312.3	-74.8	-970.9	973.7	0.00	0.00	0.00
3,600.0	23.79	265.59	3,403.8	-77.9	-1,011.1	1,014.1	0.00	0.00	0.00
3,700.0	23.79	265.59	3,495.3	-81.0	-1,051.3	1,054.4	0.00	0.00	0.00
3,800.0	23.79	265.59	3,586.8	-84.1	-1,091.5	1,094.7	0.00	0.00	0.00
3,900.0	23.79	265.59	3,678.3	-87.2	-1,131.7	1,135.1	0.00	0.00	0.00
3,969.6	23.79	265.59	3,742.0	-89.3	-1,159.7	1,163.2	0.00	0.00	0.00
Ojo Alamo									
4,000.0	23.79	265.59	3,769.8	-90.3	-1,171.9	1,175.4	0.00	0.00	0.00
4,095.3	23.79	265.59	3,857.0	-93.2	-1,210.3	1,213.9	0.00	0.00	0.00
Kirtland									
4,100.0	23.79	265.59	3,861.3	-93.4	-1,212.2	1,215.8	0.00	0.00	0.00
4,155.0	23.79	265.59	3,911.6	-95.1	-1,234.3	1,237.9	0.00	0.00	0.00
4,200.0	22.44	265.59	3,953.0	-96.4	-1,251.9	1,255.6	3.00	-3.00	0.00
4,300.0	19.44	265.59	4,046.4	-99.2	-1,287.5	1,291.3	3.00	-3.00	0.00
4,353.4	17.84	265.59	4,097.0	-100.5	-1,304.5	1,308.4	3.00	-3.00	0.00

ConocoPhillips or its affiliates

Planning Report

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Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 7477.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 7477.0ft (Original Well Elev)
Site:	San Juan 29 Wells	North Reference:	True
Well:	SJ 29-5 #90N	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)
Fruitland									
4,400.0	16.44	265.59	4,141.5	-101.6	-1,318.2	1,322.1	3.00	-3.00	0.00
4,500.0	13.44	265.59	4,238.1	-103.5	-1,343.9	1,347.9	3.00	-3.00	0.00
4,600.0	10.44	265.59	4,336.0	-105.1	-1,364.6	1,368.6	3.00	-3.00	0.00
4,684.1	7.92	265.59	4,419.0	-106.2	-1,377.9	1,382.0	3.00	-3.00	0.00
Pictured Cliffs									
4,700.0	7.44	265.59	4,434.7	-106.3	-1,380.0	1,384.1	3.00	-3.00	0.00
4,800.0	4.44	265.59	4,534.2	-107.1	-1,390.4	1,394.5	3.00	-3.00	0.00
4,847.9	3.00	265.59	4,582.0	-107.3	-1,393.5	1,397.6	3.00	-3.00	0.00
Lewis									
4,900.0	1.44	265.59	4,634.1	-107.5	-1,395.5	1,399.6	3.00	-3.00	0.00
4,947.9	0.00	0.00	4,682.0	-107.5	-1,396.1	1,400.2	3.00	-3.00	0.00
7" - SJ 29-5 #90N - ICP									
5,000.0	0.00	0.00	4,734.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
5,100.0	0.00	0.00	4,834.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
5,200.0	0.00	0.00	4,934.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
5,300.0	0.00	0.00	5,034.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
5,327.9	0.00	0.00	5,062.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
Huerfano Bentonite									
5,400.0	0.00	0.00	5,134.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
5,500.0	0.00	0.00	5,234.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
5,600.0	0.00	0.00	5,334.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
5,682.9	0.00	0.00	5,417.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
Chacra									
5,700.0	0.00	0.00	5,434.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
5,800.0	0.00	0.00	5,534.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
5,900.0	0.00	0.00	5,634.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
6,000.0	0.00	0.00	5,734.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
6,100.0	0.00	0.00	5,834.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
6,200.0	0.00	0.00	5,934.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
6,277.9	0.00	0.00	6,012.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
Upper Cliffhouse									
6,300.0	0.00	0.00	6,034.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
6,400.0	0.00	0.00	6,134.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
6,500.0	0.00	0.00	6,234.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
6,524.9	0.00	0.00	6,259.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
Massive Cliffhouse									
6,567.9	0.00	0.00	6,302.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
Menefee									
6,600.0	0.00	0.00	6,334.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
6,700.0	0.00	0.00	6,434.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
6,800.0	0.00	0.00	6,534.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
6,869.9	0.00	0.00	6,604.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
Pt. Lookout									
6,900.0	0.00	0.00	6,634.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
7,000.0	0.00	0.00	6,734.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
7,100.0	0.00	0.00	6,834.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
7,200.0	0.00	0.00	6,934.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
7,207.9	0.00	0.00	6,942.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
Mancos									
7,300.0	0.00	0.00	7,034.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
7,400.0	0.00	0.00	7,134.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00

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Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 29-5 #90N
Company:	ConocoPhillips SJBU	TVD Reference:	WELL @ 7477.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 7477.0ft (Original Well Elev)
Site:	San Juan 29 Wells	North Reference:	True
Well:	SJ 29-5 #90N	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)
7,500.0	0.00	0.00	7,234.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
7,600.0	0.00	0.00	7,334.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
7,700.0	0.00	0.00	7,434.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
7,800.0	0.00	0.00	7,534.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
7,900.0	0.00	0.00	7,634.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
8,000.0	0.00	0.00	7,734.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
8,085.9	0.00	0.00	7,820.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
Gallup									
8,100.0	0.00	0.00	7,834.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
8,200.0	0.00	0.00	7,934.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
8,300.0	0.00	0.00	8,034.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
8,400.0	0.00	0.00	8,134.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
8,500.0	0.00	0.00	8,234.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
8,600.0	0.00	0.00	8,334.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
8,700.0	0.00	0.00	8,434.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
8,800.0	0.00	0.00	8,534.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
8,839.9	0.00	0.00	8,574.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
Greenhorn									
8,894.9	0.00	0.00	8,629.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
Graneros									
8,900.0	0.00	0.00	8,634.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
8,964.9	0.00	0.00	8,699.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
Two Wells									
9,000.0	0.00	0.00	8,734.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
9,015.9	0.00	0.00	8,750.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
Upper Cubero									
9,075.9	0.00	0.00	8,810.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
Lower Cubero									
9,100.0	0.00	0.00	8,834.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
9,143.9	0.00	0.00	8,878.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
Oak Canyon									
9,159.9	0.00	0.00	8,894.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
Encinal									
9,160.9	0.00	0.00	8,895.0	-107.5	-1,396.1	1,400.2	0.00	0.00	0.00
4 1/2" - SJ 29-5 #90N - TD									

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 29-5 #90N - TD	0.00	0.00	8,895.0	-107.5	-1,396.1	2,067,987.32	646,373.41	36° 40' 56.236 N	107° 20' 2.946 W
- plan hits target center									
- Point									
SJ 29-5 #90N - ICP	0.00	0.00	4,682.0	-107.5	-1,396.1	2,067,987.28	646,373.41	36° 40' 56.236 N	107° 20' 2.946 W
- plan hits target center									
- Point									

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 29-5 #90N
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 7477.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 7477.0ft (Original Well Elev)
Site:	San Juan 29 Wells	North Reference:	True
Well:	SJ 29-5 #90N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #1		

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
4,947.9	4,682.0	7"	7	8-3/4	
9,160.9	8,895.0	4 1/2"	4-1/2	6-1/4	
230.0	230.0	9 5/8"	9-5/8	12-1/4	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction	
9,159.9	8,894.0	Encinal		0.00		
8,085.9	7,820.0	Gallup		0.00		
6,524.9	6,259.0	Massive Cliffhouse		0.00		
3,969.6	3,742.0	Ojo Alamo		0.00		
6,869.9	6,604.0	Pt Lookout		0.00		
4,095.3	3,857.0	Kirtland		0.00		
7,207.9	6,942.0	Mancos		0.00		
6,277.9	6,012.0	Upper Cliffhouse		0.00		
8,964.9	8,699.0	Two Wells		0.00		
4,847.9	4,582.0	Lewis		0.00		
5,682.9	5,417.0	Chacra		0.00		
9,143.9	8,878.0	Oak Canyon		0.00		
8,894.9	8,629.0	Graneros		0.00		
4,684.1	4,419.0	Pictured Cliffs		0.00		
4,353.4	4,097.0	Fruitland		0.00		
6,567.9	6,302.0	Menefee		0.00		
8,839.9	8,574.0	Greenhorn		0.00		
9,015.9	8,750.0	Upper Cubero		0.00		
5,327.9	5,062.0	Huerfanito Bentonite		0.00		
9,075.9	8,810.0	Lower Cubero		0.00		

REFERENCE INFORMATION		Project: San Juan Basin - New Mexico West V								
WELL @ 7477.0ft (Original Well Elev)		Site: San Juan 29 Wells								
Ground Elevation 7462.0		Well: SJ 29-5 #90N								
Reference Lat: 36° 40' 57.299 N		Wellbore: Principal Wellbore								
Reference Long: 107° 19' 45.808 W		Desian: 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	500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.0	
3	1689.5	23.79	265.59	1655.6	-18.7	-242.7	2.00	265.59	243.4	
4	4155.0	23.79	265.59	3911.6	-95.1	-1234.3	0.00	0.00	1237.9	
5	4947.9	0.00	0.00	4682.0	-107.5	-1396.1	3.00	180.00	1400.2	SJ 29-5 #90N - ICP
6	9160.9	0.00	0.00	8895.0	-107.5	-1396.1	0.00	0.00	1400.2	SJ 29-5 #90N - TD

