

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT JAN 25 2013

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on page 2.

1. Type of Well ☐ Oil Well ☒ Gas Well ☐ Other		5. Lease Serial No. SF-080538
2. Name of Operator ConocoPhillips Company		6. If Indian, Allottee or Tribe Name San Juan 30-5 Unit
3a. Address PO Box 4289, Farmington, NM 87499	3b. Phone No. (include area code) (505) 326-9700	7. If Unit of CA/Agreement, Name and/or No. SAN JUAN 30-5 UNIT
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Surface Unit H (SE/NE), 2333'FNL & 860'FEL, Section 11, T30N, R5W Bottomhole Unit J (NW/SE), 2580'FSL & 1930'FEL, Section 11, T30N, R5W		8. Well Name and No. San Juan 30-5 Unit 8A
		9. API Well No. 30-039-31052
		10. Field and Pool or Exploratory Area Blanco MV/Basin DK
		11. Country or Parish; State Rio Arriba New Mexico

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Drop
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Mancos Formation
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once Testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

ConocoPhillips requests permission to remove the Basin Mancos formation from this well. Attached is a revised plat, project proposal and directional plan/plot.

The DHC#3737AZ was approved for trimmingle, ConocoPhillips request to continue to use the approved DHC for the MV/DK.

* REMOVED BASIN MANCOS FROM DHC #3737 AZ ON 2/6/2013
USE FOR MV/DK AS REQUESTED.

RCVD FEB 5 '13
OIL CONS. DIV.
DIST. 3

Hold C104
for Directional Survey
and "As Drilled" plat

Hold C104
for Directional Survey
and "As Drilled" plat

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) Arleen White		Title Staff Regulatory Tech	
Signature <i>Arleen White</i>		Date 1/24/13	

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by William Tambekou	Petroleum Engineer	02/01/2013
Title		Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office FFD

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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 representations as to any matter within its jurisdiction.

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
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 7 Copies
Fee Lease - 3 Copies
Bureau of Land Management

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-39-31052		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 8A				
⁷ OGRID No. 217817		⁸ Operator Name CONOCOPHILLIPS COMPANY			⁹ Elevation 6810				
¹⁰ SURFACE LOCATION									
UL or lot no. H	Section 11	Township 30-N	Range 5-W	Lot Idn 2333	Feet from the 2333	North/South line NORTH	Feet from the 860	East/West line EAST	County RIO ARRIBA
¹¹ Bottom Hole Location If Different From Surface									
UL or lot no. J	Section 11	Township 30-N	Range 5-W	Lot Idn 2580	Feet from the 2580	North/South line SOUTH	Feet from the 1930	East/West line EAST	County RIO ARRIBA
¹² Dedicated Acres 320.00		¹³ Joint or Infill	¹⁴ Consolidation Code		¹⁵ Order No.		RCVD FEB 5 '13 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 1916 N 89°53'22" W N 89°46' E		E/2 DEDICATED ACREAGE USA SF-080538 SECTION 11, T-30-N, R-5-W		5269.1' (M) 5260.2' (R) GLO 1916	
BASIS OF BEARING IS THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, WEST ZONE, NAD83 AS DETERMINED BY GPS OBSERVATION AND NGS/OPUS SOLUTION.		WELL FLAG NAD 83 LAT: 36.827997° N LONG: 107.320637° W NAD 27 LAT: 36°49.679467' N LONG: 107°19.202196' W S 71°09'54" W 1128.3'		2333'	
				2640.0' (R) 2636.1' (M)	
BOTTOM HOLE NAD 83 LAT: 36.827013° N LONG: 107.324292° W NAD 27 LAT: 36°49.620375' N LONG: 107°19.421513' W		1930'		860'	
		2580'		GLO 1916	
				2640.0' (R) 2643.8' (M)	
GLO 1916 N 89°40' E N 89°53'20" W				5266.1' (R) 5280.7' (M) 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. Arleen White 1/24/13 Signature Arleen White Printed Name Staff Regulatory Tech Title and E-mail Address Date					
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: 11/3/09 Signature and Seal of Professional Surveyor: HENRY P. BROADHURST NEW MEXICO 11393 PROFESSIONAL SURVEYOR Certificate Number: NM 11393					

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 30-5 UNIT 8A

DEVELOPMENT

Lease:		AFE #: WAN.CDR.8111				AFE \$:	
Field Name: SAN JUAN		Rig: Aztec Rig 730		State: NM	County: RIO ARRIBA	API #: 3003931052	
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist:		Phone:		Prod. Engineer:		Phone:	
Res. Engineer: McKee, Cory J		Phone: +1 505-326-9826		Proj. Field Lead:		Phone:	
Primary Objective (Zones):							
Zone	Zone Name						
RON	BLANCO MESAVERDE (PRORATED GAS)						
FRR	BASIN DAKOTA (PRORATED GAS)						
Location: Surface Datum Code: NAD 27 Directional							
Latitude: 36.827990	Longitude: -107.320036	X:	Y:	Section: 11	Range: 005W		
Footage X: 860 FEL	Footage Y: 2333 FNL	Elevation: 6810	(FT)	Township: 030N			
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27 Directional							
Latitude: 36.827006	Longitude: -107.323691	X:	Y:	Section: 11	Range: 005W		
Footage X: 1930 FEL	Footage Y: 2580 FSL	Elevation:	(FT)	Township: 030N			
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2013		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6826 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	231	6595	231	☐			12-1/4 hole. 230' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.
NACIMIENTO	1651	5175		☐			
OJO ALAMO	2895	3931		☐			
KIRTLAND	3106	3720		☐			
FRUITLAND	3202	3624		☐	556		Possible Gas
PICTURED CLIFFS	3766	3060		☐	1100		
LEWIS	3856	2970		☐			
Intermediate Casing	3956	2870	4159	☐		125	8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 959 cuft. Circulate cement to surface.
HUERFANITO BENTONITE	4573	2253		☐			
CHACRA	4938	1888		☐			
UPPER CLIFF HOUSE	5483	1343		☐			Gas; Est. Top Perf - 5484 (1341)
MASSIVE CLIFF HOUSE	5768	1058		☐	526		Gas; Cliffhouse is dry
MENEFEE	5824	1002		☐			
POINT LOOKOUT	5980	846		☐			
MANCOS	6446	380		☐			
UPPER GALLUP	7311	-485		☐			
GREENHORN	8025	-1199		☐			
GRANEROS	8072	-1246		☐			
TWO WELLS	8185	-1359		☐	3164		Gas
PAGUATE	8200	-1374		☐			
UPPER CUBERO	8203	-1377		☐			

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 30-5 UNIT 8A

DEVELOPMENT

LOWER CUBERO	8248	-1422	☐	Est. Btm Perf - 8303 (- 1478) based on offset wells
ENCINAL	8319	-1493	☐	TD - T/ENCN
Total Depth	8319	-1493	8522 ☐	221 6-1/4" hole, 4-1/2" 11.6 ppf, L-80, LTC casing. Cement w/ 594 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 1-57	30N 5W 12 SW NE NW
Production	SJ 30-5 Unit 113	30N 5W 11 SW NE SW
Production	SJ 30-5 Unit 112	30N 5W 12 NE SW SE

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
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ConocoPhillips SJB

San Juan Basin - New Mexico West Wells

San Juan 30 Wells

SJ 30-5 #8A

Principal Wellbore

Plan: Plan #1

Standard Planning Report

16 December, 2011

ConocoPhillips or its affiliates

Planning Report

Database: EDM Central Planning Company: ConocoPhillips SJB Project: San Juan Basin - New Mexico West Wells Site: San Juan 30 Wells Well: SJ 30-5 #8A Wellbore: Principal Wellbore Design: Plan #1	Local Co-ordinate Reference: Well SJ 30-5 #8A TVD Reference: RKB @ 6826.0ft (H&P RIGS) MD Reference: RKB @ 6826.0ft (H&P RIGS) North Reference: True Survey Calculation Method: Minimum Curvature	
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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 30 Wells			
Site Position:		Northing:	2,102,764.35 ft
From:	Lat/Long	Easting:	577,489.48 ft
Position Uncertainty:	15.0 ft	Slot Radius:	"
		Latitude:	36° 46' 42.851 N
		Longitude:	107° 34' 7.456 W
		Grid Convergence:	0.16 °

Well SJ 30-5 #8A, Directional "S" Curve SHORT, Lewis not included			
Well Position		Northing:	2,121,052.35 ft
	+N/-S		
	0.0 ft	Easting:	650,227.97 ft
	+E/-W		
	0.0 ft	Latitude:	36° 49' 40.768 N
Position Uncertainty	3.5 ft	Wellhead Elevation:	ft
		Longitude:	107° 19' 12.132 W
		Ground Level:	6,810.0 ft

Wellbore Principal Wellbore

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2010	8/10/2010	9.82	63.68	50,979

Design Plan #1

Audit Notes:

Version: 1	Phase: PROTOTYPE	Tie On Depth: 0.0
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Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	251.48

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	
1,466.3	22.93	251.48	1,436.0	-71.9	-214.6	2.00	2.00	0.00	251.48	
3,394.7	22.93	251.48	3,212.0	-310.6	-926.8	0.00	0.00	0.00	0.00	
4,158.9	0.00	0.00	3,956.0	-358.5	-1,069.9	3.00	-3.00	0.00	180.00	SJ 30-5 #8A - ICP
8,521.9	0.00	0.00	8,319.0	-358.5	-1,069.9	0.00	0.00	0.00	0.00	SJ 30-5 #8A - PCP

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 30-5 #8A
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6826.0ft (H&P RIGS)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	RKB @ 6826.0ft (H&P RIGS)
Site:	San Juan 30 Wells	North Reference:	True
Well:	SJ 30-5 #8A	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
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	1.60	251.48	400.0	-0.4	-1.1	1.1	2.00	2.00	0.00
500.0	3.60	251.48	499.9	-1.8	-5.4	5.7	2.00	2.00	0.00
600.0	5.60	251.48	599.6	-4.3	-13.0	13.7	2.00	2.00	0.00
700.0	7.60	251.48	698.9	-8.0	-23.9	25.2	2.00	2.00	0.00
800.0	9.60	251.48	797.8	-12.7	-38.0	40.1	2.00	2.00	0.00
900.0	11.60	251.48	896.0	-18.6	-55.5	58.5	2.00	2.00	0.00
1,000.0	13.60	251.48	993.6	-25.5	-76.2	80.3	2.00	2.00	0.00
1,100.0	15.60	251.48	1,090.4	-33.5	-100.1	105.5	2.00	2.00	0.00
1,200.0	17.60	251.48	1,186.2	-42.6	-127.2	134.1	2.00	2.00	0.00
1,300.0	19.60	251.48	1,281.0	-52.7	-157.4	166.0	2.00	2.00	0.00
1,400.0	21.60	251.48	1,374.6	-63.9	-190.8	201.2	2.00	2.00	0.00
1,466.3	22.93	251.48	1,436.0	-71.9	-214.6	226.3	2.00	2.00	0.00
1,500.0	22.93	251.48	1,467.0	-76.1	-227.0	239.4	0.00	0.00	0.00
1,600.0	22.93	251.48	1,559.1	-88.4	-264.0	278.4	0.00	0.00	0.00
1,699.8	22.93	251.48	1,651.0	-100.8	-300.8	317.2	0.00	0.00	0.00
Nacimiento									
1,700.0	22.93	251.48	1,651.2	-100.8	-300.9	317.3	0.00	0.00	0.00
1,800.0	22.93	251.48	1,743.3	-113.2	-337.8	356.3	0.00	0.00	0.00
1,900.0	22.93	251.48	1,835.4	-125.6	-374.8	395.2	0.00	0.00	0.00
2,000.0	22.93	251.48	1,927.5	-137.9	-411.7	434.2	0.00	0.00	0.00
2,100.0	22.93	251.48	2,019.6	-150.3	-448.6	473.2	0.00	0.00	0.00
2,200.0	22.93	251.48	2,111.7	-162.7	-485.6	512.1	0.00	0.00	0.00
2,300.0	22.93	251.48	2,203.8	-175.1	-522.5	551.1	0.00	0.00	0.00
2,400.0	22.93	251.48	2,295.9	-187.5	-559.4	590.0	0.00	0.00	0.00
2,500.0	22.93	251.48	2,388.0	-199.8	-596.4	629.0	0.00	0.00	0.00
2,600.0	22.93	251.48	2,480.1	-212.2	-633.3	667.9	0.00	0.00	0.00
2,700.0	22.93	251.48	2,572.2	-224.6	-670.3	706.9	0.00	0.00	0.00
2,800.0	22.93	251.48	2,664.3	-237.0	-707.2	745.8	0.00	0.00	0.00
2,900.0	22.93	251.48	2,756.4	-249.3	-744.1	784.8	0.00	0.00	0.00
3,000.0	22.93	251.48	2,848.5	-261.7	-781.1	823.7	0.00	0.00	0.00
3,050.5	22.93	251.48	2,895.0	-268.0	-799.7	843.4	0.00	0.00	0.00
Ojo Alamo									
3,100.0	22.93	251.48	2,940.6	-274.1	-818.0	862.7	0.00	0.00	0.00
3,200.0	22.93	251.48	3,032.7	-286.5	-854.9	901.7	0.00	0.00	0.00
3,279.6	22.93	251.48	3,106.0	-296.3	-884.3	932.7	0.00	0.00	0.00
Kirtland									
3,300.0	22.93	251.48	3,124.8	-298.8	-891.9	940.6	0.00	0.00	0.00
3,331.7	22.93	251.48	3,154.0	-302.8	-903.6	953.0	0.00	0.00	0.00
Stage Tool									
3,383.8	22.93	251.48	3,202.0	-309.2	-922.8	973.3	0.00	0.00	0.00
Fruitland									
3,394.7	22.93	251.48	3,212.0	-310.6	-926.8	977.5	0.00	0.00	0.00
3,400.0	22.77	251.48	3,216.9	-311.2	-928.8	979.6	3.00	-3.00	0.00
3,500.0	19.77	251.48	3,310.1	-322.7	-963.2	1,015.8	3.00	-3.00	0.00
3,600.0	16.77	251.48	3,405.0	-332.7	-992.9	1,047.2	3.00	-3.00	0.00
3,700.0	13.77	251.48	3,501.5	-341.1	-1,017.9	1,073.5	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 West Wells
Site: San Juan 30 Wells
Well: SJ 30-5 #8A
Wellbore: Principal Wellbore
Design: Plan #1

Local Co-ordinate Reference: Well SJ 30-5 #8A
TVD Reference: RKB @ 6826.0ft (H&P RIGS)
MD Reference: RKB @ 6826.0ft (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	10.77	251.48	3,599.2	-347.8	-1,038.0	1,094.7	3.00	-3.00	0.00
3,900.0	7.77	251.48	3,697.9	-352.9	-1,053.3	1,110.8	3.00	-3.00	0.00
3,968.6	5.71	251.48	3,766.0	-355.5	-1,060.9	1,118.9	3.00	-3.00	0.00
Pictured Cliffs									
4,000.0	4.77	251.48	3,797.3	-356.4	-1,063.6	1,121.8	3.00	-3.00	0.00
4,058.9	3.00	251.48	3,856.0	-357.7	-1,067.4	1,125.7	3.00	-3.00	0.00
Lewis									
4,100.0	1.77	251.48	3,897.1	-358.2	-1,069.0	1,127.5	3.00	-3.00	0.00
4,158.9	0.00	0.00	3,956.0	-358.5	-1,069.9	1,128.4	3.00	-3.00	184.23
Int - SJ 30-5 #8A - ICP									
4,200.0	0.00	0.00	3,997.1	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
4,300.0	0.00	0.00	4,097.1	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
4,400.0	0.00	0.00	4,197.1	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
4,500.0	0.00	0.00	4,297.1	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
4,600.0	0.00	0.00	4,397.1	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
4,700.0	0.00	0.00	4,497.1	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
4,775.9	0.00	0.00	4,573.0	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
Huerfano Bentonite									
4,800.0	0.00	0.00	4,597.1	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
4,900.0	0.00	0.00	4,697.1	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
5,000.0	0.00	0.00	4,797.1	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
5,100.0	0.00	0.00	4,897.1	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
5,140.9	0.00	0.00	4,938.0	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
Chacra									
5,200.0	0.00	0.00	4,997.1	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
5,300.0	0.00	0.00	5,097.1	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
5,400.0	0.00	0.00	5,197.1	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
5,500.0	0.00	0.00	5,297.1	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
5,600.0	0.00	0.00	5,397.1	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
5,685.9	0.00	0.00	5,483.0	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
Upper Cliffhouse									
5,700.0	0.00	0.00	5,497.1	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
5,800.0	0.00	0.00	5,597.1	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
5,900.0	0.00	0.00	5,697.1	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
5,970.9	0.00	0.00	5,768.0	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
Massive Cliffhouse									
6,000.0	0.00	0.00	5,797.1	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
6,026.9	0.00	0.00	5,824.0	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
Menefee									
6,100.0	0.00	0.00	5,897.1	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
6,182.9	0.00	0.00	5,980.0	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
Point Lookout									
6,200.0	0.00	0.00	5,997.1	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
6,300.0	0.00	0.00	6,097.1	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
6,400.0	0.00	0.00	6,197.1	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
6,500.0	0.00	0.00	6,297.1	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
6,600.0	0.00	0.00	6,397.1	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
6,648.9	0.00	0.00	6,446.0	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
Mancos									
6,700.0	0.00	0.00	6,497.1	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
6,800.0	0.00	0.00	6,597.1	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
6,900.0	0.00	0.00	6,697.1	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 30-5 #8A
Company:	ConocoPhillips SJBU	TVD Reference:	RKB @ 6826.0ft (H&P RIGS)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	RKB @ 6826.0ft (H&P RIGS)
Site:	San Juan 30 Wells	North Reference:	True
Well:	SJ 30-5 #8A	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)
7,000.0	0.00	0.00	6,797.1	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
7,100.0	0.00	0.00	6,897.1	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
7,200.0	0.00	0.00	6,997.1	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
7,300.0	0.00	0.00	7,097.1	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
7,400.0	0.00	0.00	7,197.1	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
7,500.0	0.00	0.00	7,297.1	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
7,513.9	0.00	0.00	7,311.0	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
Upper Gallup									
7,600.0	0.00	0.00	7,397.1	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
7,700.0	0.00	0.00	7,497.1	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
7,800.0	0.00	0.00	7,597.1	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
7,900.0	0.00	0.00	7,697.1	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
8,000.0	0.00	0.00	7,797.1	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
8,100.0	0.00	0.00	7,897.1	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
8,200.0	0.00	0.00	7,997.1	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
8,227.9	0.00	0.00	8,025.0	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
Greenhorn									
8,274.9	0.00	0.00	8,072.0	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
Graneros									
8,300.0	0.00	0.00	8,097.1	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
8,387.9	0.00	0.00	8,185.0	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
Two Wells									
8,400.0	0.00	0.00	8,197.1	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
8,402.9	0.00	0.00	8,200.0	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
Paguate									
8,405.9	0.00	0.00	8,203.0	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
Upper Cubero									
8,450.9	0.00	0.00	8,248.0	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
Lower Cubero									
8,500.0	0.00	0.00	8,297.1	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
8,521.9	0.00	0.00	8,319.0	-358.5	-1,069.9	1,128.4	0.00	0.00	0.00
SJ 30-5 #8A - PCP									

Targets									
Target Name	- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	
- Shape		(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	Latitude Longitude
SJ 30-5 #8A - PCP		0.00	0.00	8,319.0	-358.5	-1,069.9	2,120,688.14	649,160.07	36° 49' 37.223 N 107° 19' 25.291 W
- plan hits target center									
- Circle (radius 100.0)									
SJ 30-5 #8A - ICP		0.00	0.00	3,956.0	-358.5	-1,069.9	2,120,688.14	649,160.07	36° 49' 37.223 N 107° 19' 25.291 W
- plan hits target center									
- Circle (radius 100.0)									

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 30-5 #8A
Company:	ConocoPhillips SJBU	TVD Reference:	RKB @ 6826.0ft (H&P RIGS)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	RKB @ 6826.0ft (H&P RIGS)
Site:	San Juan 30 Wells	North Reference:	True
Well:	SJ 30-5 #8A	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #1		

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
230.0	230.0	Surf	9-5/8	12-1/4
4,158.9	3,956.0	Int	7	8-3/4
8,521.9	8,319.0	Prod	4-1/2	6-1/4

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
8,450.9	8,248.0	Lower Cubero		0.00	
5,970.9	5,768.0	Massive Cliffhouse		0.00	
4,775.9	4,573.0	Huerfanito Bentonite		0.00	
8,227.9	8,025.0	Greenhorn		0.00	
8,402.9	8,200.0	Paguate		0.00	
6,026.9	5,824.0	Menefee		0.00	
3,279.6	3,106.0	Kirtland		0.00	
4,058.9	3,856.0	Lewis		0.00	
6,182.9	5,980.0	Point Lookout		0.00	
6,648.9	6,446.0	Mancos		0.00	
3,050.5	2,895.0	Ojo Alamo		0.00	
7,513.9	7,311.0	Upper Gallup		0.00	
8,274.9	8,072.0	Graneros		0.00	
8,405.9	8,203.0	Upper Cubero		0.00	
	8,319.0	Encinal		0.00	
8,387.9	8,185.0	Two Wells		0.00	
3,383.8	3,202.0	Fruitland		0.00	
5,685.9	5,483.0	Upper Cliffhouse		0.00	
1,699.8	1,651.0	Nacimiento		0.00	
3,968.6	3,766.0	Pictured Cliffs		0.00	
3,331.7	3,154.0	Stage Tool		0.00	
5,140.9	4,938.0	Chacra		0.00	

REFERENCE INFORMATION

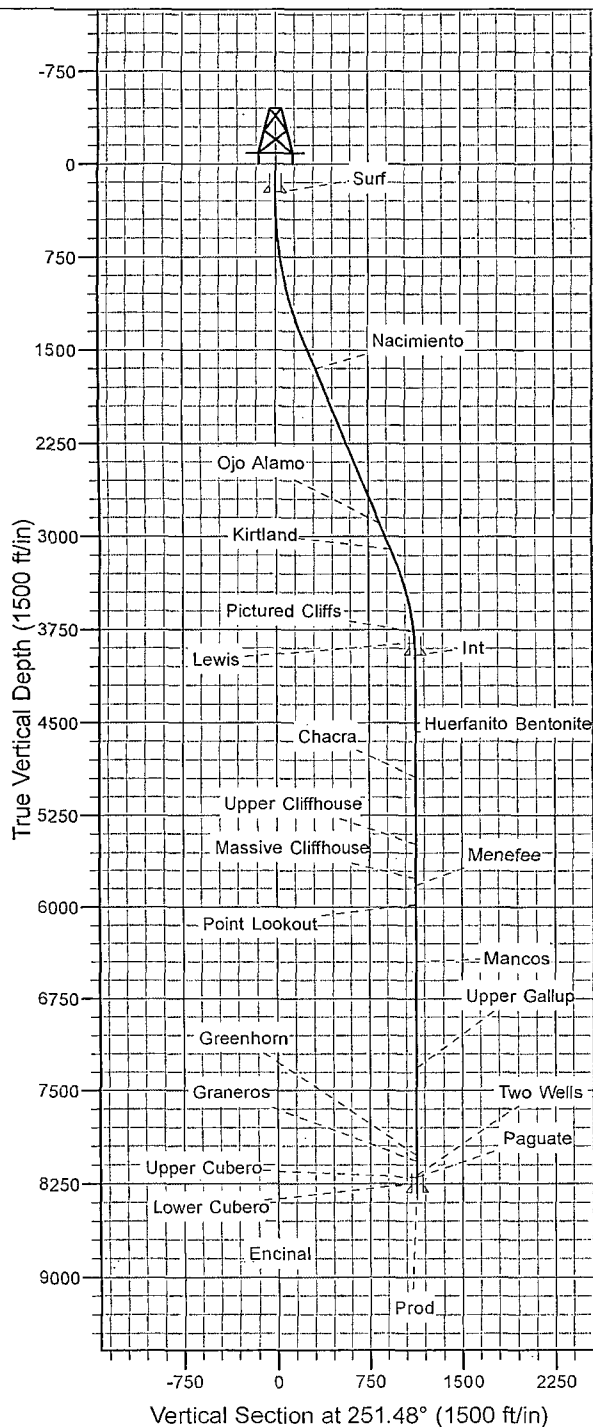
RKB @ 6826.0ft (H&P RIGS)
Ground Elevation 6810.0
Reference Lat: 36° 49' 40.768 N
Reference Long: 107° 19' 12.132 W

Project: San Juan Basin - New Mexico West W
Site: San Juan 30 Wells
Well: SJ 30-5 #8A
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	1466.3	22.93	251.48	1436.0	-71.9	-214.6	2.00	251.48	226.3	
4	3394.7	22.93	251.48	3212.0	-310.6	-926.8	0.00	0.00	977.5	
5	4158.9	0.00	0.00	3956.0	-358.5	-1069.9	3.00	180.00	1128.4	SJ 30-5 #8A - ICP
6	8521.9	0.00	0.00	8319.0	-358.5	-1069.9	0.00	0.00	1128.4	SJ 30-5 #8A - PCP



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1651.0	1699.8	Encinal
2895.0	3050.5	Nacimiento
3106.0	3279.6	Ojo Alamo
3154.0	3331.7	Kirtland
3202.0	3383.8	Stage Tool
3766.0	3968.6	Fruitland
3856.0	4058.9	Pictured Cliffs
4573.0	4775.9	Lewis
4938.0	5140.9	Huerfanito Bentonite
5483.0	5685.9	Chacra
5768.0	5970.9	Upper Cliffhouse
5824.0	6026.9	Massive Cliffhouse
5980.0	6182.9	Menefee
6446.0	6648.9	Point Lookout
7311.0	7513.9	Mancos
8025.0	8227.9	Upper Gallup
8072.0	8274.9	Greenhorn
8185.0	8387.9	Graneros
8200.0	8402.9	Two Wells
8203.0	8405.9	Paguate
8248.0	8450.9	Upper Cubero
		Lower Cubero

