

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
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

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	RECEIVED JAN 03 2012 Farmington Field Office Bureau of Land Management	5. Lease Number SF-078738 Unit Reporting Number NMNMT8449A (MV)
1b. Type of Well GAS	2. Operator ConocoPhillips Company	6. If Indian, All. or Tribe 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 28A	RCVD FEB 10 '12 OIL CONS. DIV. DIST. 3
4. Location of Well Surface: Unit P(SESE), 335' FSL & 805' FEL BHL : Unit J(NWSE), 1400' FSL & 1800' FEL Surface: Latitude: 36.791778° N (NAD83) Longitude: 107.320440° W Surface: Latitude: 36.794708° N (NAD83) Longitude: 107.323831° W	10. Field, Pool, Wildcat Blanco MV/Basin DK/Basin MC 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 23, T30N, R5W API # 30-039-31104	
14. Distance in Miles from Nearest Town 52 miles from Blanco	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 335'	17. Acres Assigned to Well 320.00 Acre E/2	
16. Acres in Lease 2219.760		
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 1046' from SJ 30-5 Unit 247R	20. Rotary or Cable Tools Rotary	
19. Proposed Depth 8503		
21. Elevations (DF, FT, GR, Etc.) 7075' GL	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: Arleen Kellywood Arleen Kellywood (Staff Regulatory Tech)	Date 1/3/12	

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY: [Signature] TITLE: AFEU DATE: 2/8/12

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 any statement or presentation 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

NMOC FEB 17 2012
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DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

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

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102

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

OIL CONSERVATION DIVISION

Revised July 16, 2010

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

1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to Appropriate
District Office

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039- 31104	² Pool Code 71599/72319/97232	³ Pool Name BASIN DAKOTA/BLANCO MESAVERDE/MANCOS	BASIN
⁴ Property Code 31327	⁵ Property Name SAN JUAN 30-5 UNIT	⁶ Well Number 28A	
⁷ GRID No. 217817	⁸ Operator Name CONOCOPHILLIPS COMPANY	⁹ Elevation 7075'	

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
P	23	30-N	5-W		335'	SOUTH	805'	EAST	RIO ARRIBA

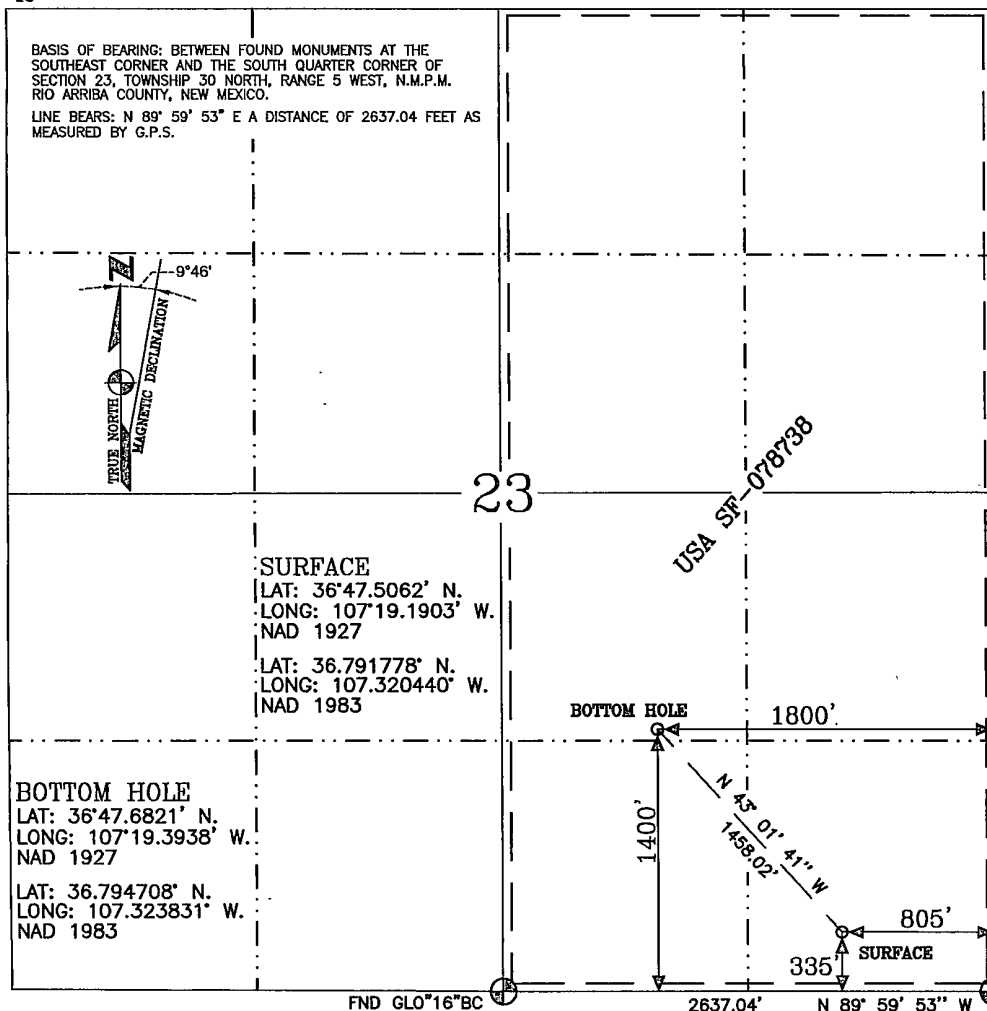
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	23	30-N	5-W		1400'	SOUTH	1800'	EAST	RIO ARRIBA

¹² Dedicated Acres DK 320.0 ACRE E/2 MV 320.0 ACRE E/2	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

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OPERATOR CERTIFICATION

I hereby certify that the information contained herein
is true and complete to the best of my knowledge and
belief, and that this organization either owns
a working interest or unleased mineral interest in the
land including the proposed bottom hole location or
has a right to drill this well at this location pursuant
to a contract with an owner of such a mineral or
a working interest, or to a voluntary pooling agreement
or a compulsory pooling order heretofore entered by the
division.

Arleen Kellywood 11/28/11
Signature Date

Arleen Kellywood
Printed Name

arleen.r.kellywood@conocophillips.com
E-mail Address

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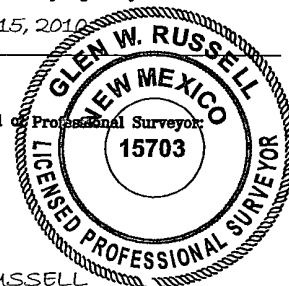
SURVEYOR CERTIFICATION

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.

DECEMBER 15, 2010

Date of Survey

Signature and Seal of Professional Surveyor



GLEN W. RUSSELL

Certificate Number 15703

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 30-5 UNIT 28A

DEVELOPMENT

Lease:		AFE #: WAN.CDR.8208				AFE \$:	
Field Name: SAN JUAN		Rig: Aztec Rig 920		State: NM	County: RIO ARRIBA		API #:
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)						
RCO085	MANCOS(RCO085)						
Location: Surface Datum Code: NAD 27 Directional							
Latitude: 36.791771	Longitude: -107.319839	X:	Y:	Section: 23	Range: 005W		
Footage X: 805 FEL	Footage Y: 335 FSL	Elevation: 7075	(FT)	Township: 030N			
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27 Directional							
Latitude: 36.794701	Longitude: -107.323230	X:	Y:	Section: 23	Range: 005W		
Footage X: 1800 FEL	Footage Y: 1400 FSL	Elevation:	(FT)	Township: 030N			
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2012		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 7090 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	200	6890	200	☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.
NACIMIENTO	1979	5111		☐			
OJO ALAMO	3141	3949		☐			
KIRTLAND	3357	3733		☐			
FRUITLAND	3386	3704		☐			Possible Gas
PICTURED CLIFFS	3991	3099		☐			
LEWIS	4096	2994		☐			
Intermediate Casing	4245	2845	4562	☐			8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 1028 cuft. Circulate cement to surface.
HUERFANITO BENTONITE	4780	2310		☐			
CHACRA	5099	1991		☐			
MASSIVE CLIFF HOUSE	5947	1143		☐	687		Gas; Cliffhouse is dry
MENEFEE	5998	1092		☐			
POINT LOOKOUT	6205	885		☐			
MANCOS	6611	479		☐			
UPPER GALLUP	7479	-389		☐			
GREENHORN	8202	-1112		☐			
GRANEROS	8253	-1163		☐			
PAGUATE	8367	-1277		☐	3146		
UPPER CUBERO	8385	-1295		☐			
LOWER CUBERO	8425	-1335		☐			

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 30-5 UNIT 28A

DEVELOPMENT

Total Depth	8503	-1413	8820	☐	6-1/4" hole, 4-1/2" 11.6 ppf, L-80, LTC casing. Cement w/ 546 cuft. Circulate cement a minimum of 100' inside the previous casing string.
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ENCINAL	8503	-1413	☐	TD ~T/Encinal
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Reference Wells:

Reference Type	Well Name	Comments
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Logging Program:

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

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

Mud log from ~100' above the Upper Gallup to TD. Mud loggers will call final TD.

Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well San Juan 30-5 #28A
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 7090.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Central Wells	MD Reference:	WELL @ 7090 0ft (Original Well Elev)
Site:	San Juan 30 Wells	North Reference:	True
Well:	San Juan 30-5 #28A	Survey Calculation Method:	Minimum Curvature
Wellbore:	San Juan 30-5 #28A		
Design:	Plan #1		

Project:	San Juan Basin - New Mexico Central 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 Central 3002		Using geodetic scale factor

Site:	San Juan 30 Wells, Township 30
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Site Position:		Northing:	2,105,283.49 ft	Latitude:	36° 46' 42.851 N
From:	Lat/Long	Easting:	113,791.42 ft	Longitude:	107° 34' 7.456 W
Position Uncertainty:	3.5 ft	Slot Radius:	6-1/8"	Grid Convergence:	-0.79 °

Well:	San Juan 30-5 #28A				
Well Position	+N/-S	0.0 ft	Northing:	2,109,179.31 ft	Latitude: 36° 47' 30.372 N
	+E/-W	0.0 ft	Easting:	186,741.13 ft	Longitude: 107° 19' 11.418 W
Position Uncertainty		3.5 ft	Wellhead Elevation:	ft	Ground Level: 7,075.0 ft

Wellbore:	San Juan 30-5 #28A
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2010	12/15/2011	9.63	63.61	50,754

Design:	Plan #1
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Audit Notes:	
Version:	Phase: PLAN Tie On Depth: 0.0

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	317.06

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	
1,725.3	28.11	317.06	1,669.6	247.3	-230.1	2.00	2.00	0.00	317.06	
3,625.0	28.11	317.06	3,345.3	902.5	-839.7	0.00	0.00	0.00	0.00	
4,561.8	0.00	0.00	4,245.0	1,067.4	-993.2	3.00	-3.00	0.00	180.00	San Juan 30-5 #28,
8,819.8	0.00	0.00	8,503.0	1,067.4	-993.2	0.00	0.00	0.00	0.00	San Juan 30-5 #28,

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well San Juan 30-5 #28A
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 7090.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Central Wells	MD Reference:	WELL @ 7090.0ft (Original Well Elev)
Site:	San Juan 30 Wells	North Reference:	True
Well:	San Juan 30-5 #28A	Survey Calculation Method:	Minimum Curvature
Wellbore:	San Juan 30-5 #28A		
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
Surface									
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
320.0	0.00	0.00	320.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	1.60	317.06	400.0	0.8	-0.8	1.1	2.00	2.00	0.00
500.0	3.60	317.06	499.9	4.1	-3.9	5.7	2.00	2.00	0.00
600.0	5.60	317.06	599.6	10.0	-9.3	13.7	2.00	2.00	0.00
700.0	7.60	317.06	698.9	18.4	-17.1	25.2	2.00	2.00	0.00
800.0	9.60	317.06	797.8	29.4	-27.3	40.1	2.00	2.00	0.00
900.0	11.60	317.06	896.0	42.8	-39.9	58.5	2.00	2.00	0.00
1,000.0	13.60	317.06	993.6	58.8	-54.7	80.3	2.00	2.00	0.00
1,100.0	15.60	317.06	1,090.4	77.3	-71.9	105.5	2.00	2.00	0.00
1,200.0	17.60	317.06	1,186.2	98.2	-91.3	134.1	2.00	2.00	0.00
1,300.0	19.60	317.06	1,281.0	121.5	-113.1	166.0	2.00	2.00	0.00
1,400.0	21.60	317.06	1,374.6	147.3	-137.0	201.2	2.00	2.00	0.00
1,500.0	23.60	317.06	1,466.9	175.4	-163.2	239.6	2.00	2.00	0.00
1,600.0	25.60	317.06	1,557.8	205.9	-191.6	281.2	2.00	2.00	0.00
1,700.0	27.60	317.06	1,647.2	238.7	-222.1	326.0	2.00	2.00	0.00
1,725.3	28.11	317.06	1,669.6	247.3	-230.1	337.8	2.00	2.00	0.00
1,800.0	28.11	317.06	1,735.5	273.1	-254.1	373.0	0.00	0.00	0.00
1,900.0	28.11	317.06	1,823.7	307.6	-286.2	420.1	0.00	0.00	0.00
2,000.0	28.11	317.06	1,911.9	342.1	-318.3	467.2	0.00	0.00	0.00
2,076.0	28.11	317.06	1,979.0	368.3	-342.7	503.1	0.00	0.00	0.00
Nacimiento									
2,100.0	28.11	317.06	2,000.1	376.6	-350.4	514.3	0.00	0.00	0.00
2,200.0	28.11	317.06	2,088.3	411.0	-382.5	561.5	0.00	0.00	0.00
2,300.0	28.11	317.06	2,176.5	445.5	-414.6	608.6	0.00	0.00	0.00
2,400.0	28.11	317.06	2,264.8	480.0	-446.6	655.7	0.00	0.00	0.00
2,500.0	28.11	317.06	2,353.0	514.5	-478.7	702.8	0.00	0.00	0.00
2,600.0	28.11	317.06	2,441.2	549.0	-510.8	749.9	0.00	0.00	0.00
2,700.0	28.11	317.06	2,529.4	583.5	-542.9	797.0	0.00	0.00	0.00
2,800.0	28.11	317.06	2,617.6	618.0	-575.0	844.1	0.00	0.00	0.00
2,900.0	28.11	317.06	2,705.8	652.5	-607.1	891.2	0.00	0.00	0.00
3,000.0	28.11	317.06	2,794.0	687.0	-639.2	938.3	0.00	0.00	0.00
3,100.0	28.11	317.06	2,882.2	721.4	-671.3	985.4	0.00	0.00	0.00
3,200.0	28.11	317.06	2,970.4	755.9	-703.4	1,032.6	0.00	0.00	0.00
3,300.0	28.11	317.06	3,058.6	790.4	-735.5	1,079.7	0.00	0.00	0.00
3,393.4	28.11	317.06	3,141.0	822.6	-765.4	1,123.7	0.00	0.00	0.00
Ojo Alamo									
3,400.0	28.11	317.06	3,146.8	824.9	-767.6	1,126.8	0.00	0.00	0.00
3,500.0	28.11	317.06	3,235.0	859.4	-799.6	1,173.9	0.00	0.00	0.00
3,600.0	28.11	317.06	3,323.3	893.9	-831.7	1,221.0	0.00	0.00	0.00
3,625.0	28.11	317.06	3,345.3	902.5	-839.7	1,232.8	0.00	0.00	0.00
3,638.2	27.71	317.06	3,357.0	907.0	-844.0	1,239.0	3.00	-3.00	0.00
Kirtland									
3,670.8	26.73	317.06	3,386.0	918.0	-854.1	1,253.9	3.00	-3.00	0.00
Fruitland									
3,700.0	25.85	317.06	3,412.1	927.4	-862.9	1,266.8	3.00	-3.00	0.00
3,800.0	22.85	317.06	3,503.2	957.6	-891.0	1,308.0	3.00	-3.00	0.00
3,900.0	19.85	317.06	3,596.4	984.3	-915.8	1,344.4	3.00	-3.00	0.00
4,000.0	16.85	317.06	3,691.3	1,007.3	-937.3	1,375.9	3.00	-3.00	0.00

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well San Juan 30-5 #28A
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 7090.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Central Wells	MD Reference:	WELL @ 7090.0ft (Original Well Elev)
Site:	San Juan 30 Wells	North Reference:	True
Well:	San Juan 30-5 #28A	Survey Calculation Method:	Minimum Curvature
Wellbore:	San Juan 30-5 #28A		
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)	
4,100.0	13.85	317.06	3,787.7	1,026.7	-955.3	1,402.4	3.00	-3.00	0.00	
4,200.0	10.85	317.06	3,885.3	1,042.4	-969.9	1,423.8	3.00	-3.00	0.00	
4,300.0	7.85	317.06	3,984.0	1,054.3	-981.0	1,440.0	3.00	-3.00	0.00	
4,307.1	7.64	317.06	3,991.0	1,055.0	-981.6	1,441.0	3.00	-3.00	0.00	
Pictured Cliffs										
4,400.0	4.85	317.06	4,083.4	1,062.4	-988.5	1,451.1	3.00	-3.00	0.00	
4,412.7	4.47	317.06	4,096.0	1,063.1	-989.2	1,452.1	3.00	-3.00	0.00	
Lewis										
4,500.0	1.85	317.06	4,183.2	1,066.6	-992.5	1,457.0	3.00	-3.00	0.00	
4,561.8	0.00	0.00	4,245.0	1,067.4	-993.2	1,458.0	3.00	-3.00	0.00	
Intermediate - San Juan 30-5 #28A ICP										
4,600.0	0.00	0.00	4,283.2	1,067.4	-993.2	1,458.0	0.00	0.00	0.00	
4,700.0	0.00	0.00	4,383.2	1,067.4	-993.2	1,458.0	0.00	0.00	0.00	
4,800.0	0.00	0.00	4,483.2	1,067.4	-993.2	1,458.0	0.00	0.00	0.00	
4,900.0	0.00	0.00	4,583.2	1,067.4	-993.2	1,458.0	0.00	0.00	0.00	
5,000.0	0.00	0.00	4,683.2	1,067.4	-993.2	1,458.0	0.00	0.00	0.00	
5,096.8	0.00	0.00	4,780.0	1,067.4	-993.2	1,458.0	0.00	0.00	0.00	
Huerfano Bentonite										
5,100.0	0.00	0.00	4,783.2	1,067.4	-993.2	1,458.0	0.00	0.00	0.00	
5,200.0	0.00	0.00	4,883.2	1,067.4	-993.2	1,458.0	0.00	0.00	0.00	
5,300.0	0.00	0.00	4,983.2	1,067.4	-993.2	1,458.0	0.00	0.00	0.00	
5,400.0	0.00	0.00	5,083.2	1,067.4	-993.2	1,458.0	0.00	0.00	0.00	
5,415.8	0.00	0.00	5,099.0	1,067.4	-993.2	1,458.0	0.00	0.00	0.00	
Chacra										
5,500.0	0.00	0.00	5,183.2	1,067.4	-993.2	1,458.0	0.00	0.00	0.00	
5,600.0	0.00	0.00	5,283.2	1,067.4	-993.2	1,458.0	0.00	0.00	0.00	
5,700.0	0.00	0.00	5,383.2	1,067.4	-993.2	1,458.0	0.00	0.00	0.00	
5,800.0	0.00	0.00	5,483.2	1,067.4	-993.2	1,458.0	0.00	0.00	0.00	
5,900.0	0.00	0.00	5,583.2	1,067.4	-993.2	1,458.0	0.00	0.00	0.00	
6,000.0	0.00	0.00	5,683.2	1,067.4	-993.2	1,458.0	0.00	0.00	0.00	
6,100.0	0.00	0.00	5,783.2	1,067.4	-993.2	1,458.0	0.00	0.00	0.00	
6,200.0	0.00	0.00	5,883.2	1,067.4	-993.2	1,458.0	0.00	0.00	0.00	
6,263.8	0.00	0.00	5,947.0	1,067.4	-993.2	1,458.0	0.00	0.00	0.00	
Massive Cliff House										
6,300.0	0.00	0.00	5,983.2	1,067.4	-993.2	1,458.0	0.00	0.00	0.00	
6,314.8	0.00	0.00	5,998.0	1,067.4	-993.2	1,458.0	0.00	0.00	0.00	
Menefee										
6,400.0	0.00	0.00	6,083.2	1,067.4	-993.2	1,458.0	0.00	0.00	0.00	
6,500.0	0.00	0.00	6,183.2	1,067.4	-993.2	1,458.0	0.00	0.00	0.00	
6,521.8	0.00	0.00	6,205.0	1,067.4	-993.2	1,458.0	0.00	0.00	0.00	
Pt. Lookout										
6,600.0	0.00	0.00	6,283.2	1,067.4	-993.2	1,458.0	0.00	0.00	0.00	
6,700.0	0.00	0.00	6,383.2	1,067.4	-993.2	1,458.0	0.00	0.00	0.00	
6,800.0	0.00	0.00	6,483.2	1,067.4	-993.2	1,458.0	0.00	0.00	0.00	
6,900.0	0.00	0.00	6,583.2	1,067.4	-993.2	1,458.0	0.00	0.00	0.00	
6,927.8	0.00	0.00	6,611.0	1,067.4	-993.2	1,458.0	0.00	0.00	0.00	
Mancos Shale										
7,000.0	0.00	0.00	6,683.2	1,067.4	-993.2	1,458.0	0.00	0.00	0.00	
7,100.0	0.00	0.00	6,783.2	1,067.4	-993.2	1,458.0	0.00	0.00	0.00	
7,200.0	0.00	0.00	6,883.2	1,067.4	-993.2	1,458.0	0.00	0.00	0.00	
7,300.0	0.00	0.00	6,983.2	1,067.4	-993.2	1,458.0	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,083.2	1,067.4	-993.2	1,458.0	0.00	0.00	0.00	

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well San Juan 30-5 #28A
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 7090.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Central Wells	MD Reference:	WELL @ 7090.0ft (Original Well Elev)
Site:	San Juan 30 Wells	North Reference:	True
Well:	San Juan 30-5 #28A	Survey Calculation Method:	Minimum Curvature
Wellbore Design:	San Juan 30-5 #28A 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	7,183.2	1,067.4	-993.2	1,458.0	0.00	0.00	0.00
7,600.0	0.00	0.00	7,283.2	1,067.4	-993.2	1,458.0	0.00	0.00	0.00
7,700.0	0.00	0.00	7,383.2	1,067.4	-993.2	1,458.0	0.00	0.00	0.00
7,795.8	0.00	0.00	7,479.0	1,067.4	-993.2	1,458.0	0.00	0.00	0.00
Gallup									
7,800.0	0.00	0.00	7,483.2	1,067.4	-993.2	1,458.0	0.00	0.00	0.00
7,900.0	0.00	0.00	7,583.2	1,067.4	-993.2	1,458.0	0.00	0.00	0.00
8,000.0	0.00	0.00	7,683.2	1,067.4	-993.2	1,458.0	0.00	0.00	0.00
8,100.0	0.00	0.00	7,783.2	1,067.4	-993.2	1,458.0	0.00	0.00	0.00
8,200.0	0.00	0.00	7,883.2	1,067.4	-993.2	1,458.0	0.00	0.00	0.00
8,300.0	0.00	0.00	7,983.2	1,067.4	-993.2	1,458.0	0.00	0.00	0.00
8,400.0	0.00	0.00	8,083.2	1,067.4	-993.2	1,458.0	0.00	0.00	0.00
8,500.0	0.00	0.00	8,183.2	1,067.4	-993.2	1,458.0	0.00	0.00	0.00
8,518.8	0.00	0.00	8,202.0	1,067.4	-993.2	1,458.0	0.00	0.00	0.00
Greenhorn									
8,569.8	0.00	0.00	8,253.0	1,067.4	-993.2	1,458.0	0.00	0.00	0.00
Graneros									
8,600.0	0.00	0.00	8,283.2	1,067.4	-993.2	1,458.0	0.00	0.00	0.00
8,683.8	0.00	0.00	8,367.0	1,067.4	-993.2	1,458.0	0.00	0.00	0.00
Paguate									
8,700.0	0.00	0.00	8,383.2	1,067.4	-993.2	1,458.0	0.00	0.00	0.00
8,701.8	0.00	0.00	8,385.0	1,067.4	-993.2	1,458.0	0.00	0.00	0.00
Upper Cubero									
8,741.8	0.00	0.00	8,425.0	1,067.4	-993.2	1,458.0	0.00	0.00	0.00
Lower Cubero									
8,800.0	0.00	0.00	8,483.2	1,067.4	-993.2	1,458.0	0.00	0.00	0.00
8,819.8	0.00	0.00	8,503.0	1,067.4	-993.2	1,458.0	0.00	0.00	0.00
Encinal - Production - San Juan 30-5 #28A PCP									

Targets									
Target Name	Hit/miss target	Dip Angle (°)	Dip Dir (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	
Shape									Latitude Longitude
San Juan 30-5 #28A I		0.00	0.00	4,245.0	1,067.4	-993.2	2,110,257.74	185,759.96	36° 47' 40.926 N 107° 19' 23.628 W
- plan hits target center									
- Point									
San Juan 30-5 #28A f		0.00	0.00	8,503.0	1,067.4	-993.2	2,110,257.77	185,759.92	36° 47' 40.926 N 107° 19' 23.629 W
- plan hits target center									
- Point									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
200.0	200.0	Surface	9-5/8	12-1/4	
4,561.8	4,245.0	Intermediate	7	8-3/4	
8,819.8	8,503.0	Production	4-1/2	6-1/4	

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well San Juan 30-5 #28A
Company:	ConocoPhillips SJBU	TVD Reference:	WELL @ 7090.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Central Wells	MD Reference:	WELL @ 7090.0ft (Original Well Elev)
Site:	San Juan 30 Wells	North Reference:	True
Well:	San Juan 30-5 #28A	Survey Calculation Method:	Minimum Curvature
Wellbore:	San Juan 30-5 #28A		
Design:	Plan #1		

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
6,263.8	5,947.0	Massive Cliff House			
8,683.8	8,367.0	Paguate			
6,927.8	6,611.0	Mancos Shale			
5,415.8	5,099.0	Chacra			
8,819.8	8,503.0	Encinal			
6,521.8	6,205.0	Pt. Lookout			
3,638.2	3,357.0	Kirtland			
4,307.1	3,991.0	Pictured Cliffs			
8,701.8	8,385.0	Upper Cubero			
6,314.8	5,998.0	Menefee			
8,741.8	8,425.0	Lower Cubero			
8,518.8	8,202.0	Greenhorn			
4,412.7	4,096.0	Lewis			
7,795.8	7,479.0	Gallup			
5,096.8	4,780.0	Huerfanto Bentonite			
8,569.8	8,253.0	Graneros			
2,076.0	1,979.0	Nacimiento			
3,393.4	3,141.0	Ojo Alamo			
3,670.8	3,386.0	Fruitland			

REFERENCE INFORMATION

WELL @ 7090.0ft (Original Well Elev)
Ground Elevation 7075.0
Reference Lat: 36° 47' 30.372 N
Reference Long: 107° 19' 11.418 W

Project: San Juan Basin - New Mexico Central V
Site: San Juan 30 Wells
Well: San Juan 30-5 #28A
Wellbore: San Juan 30-5 #28A
Design: Plan #1

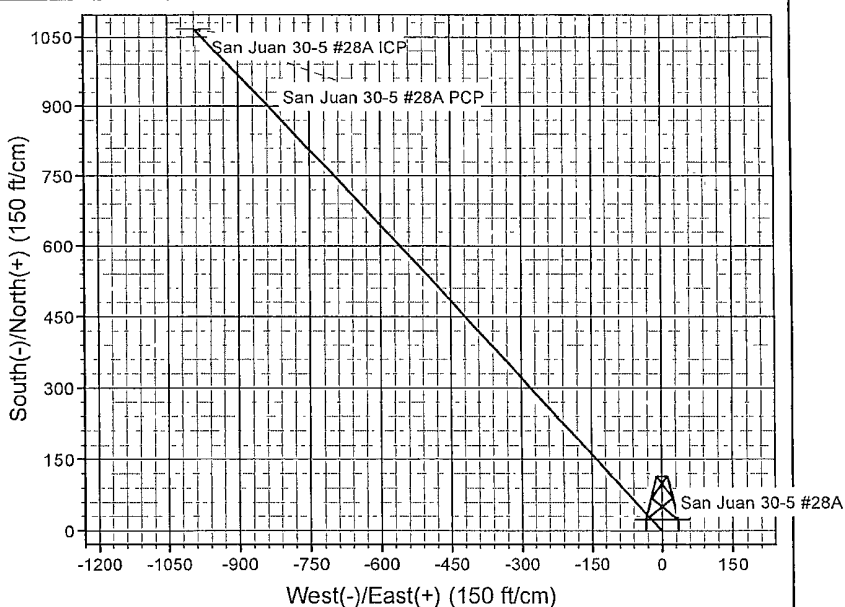
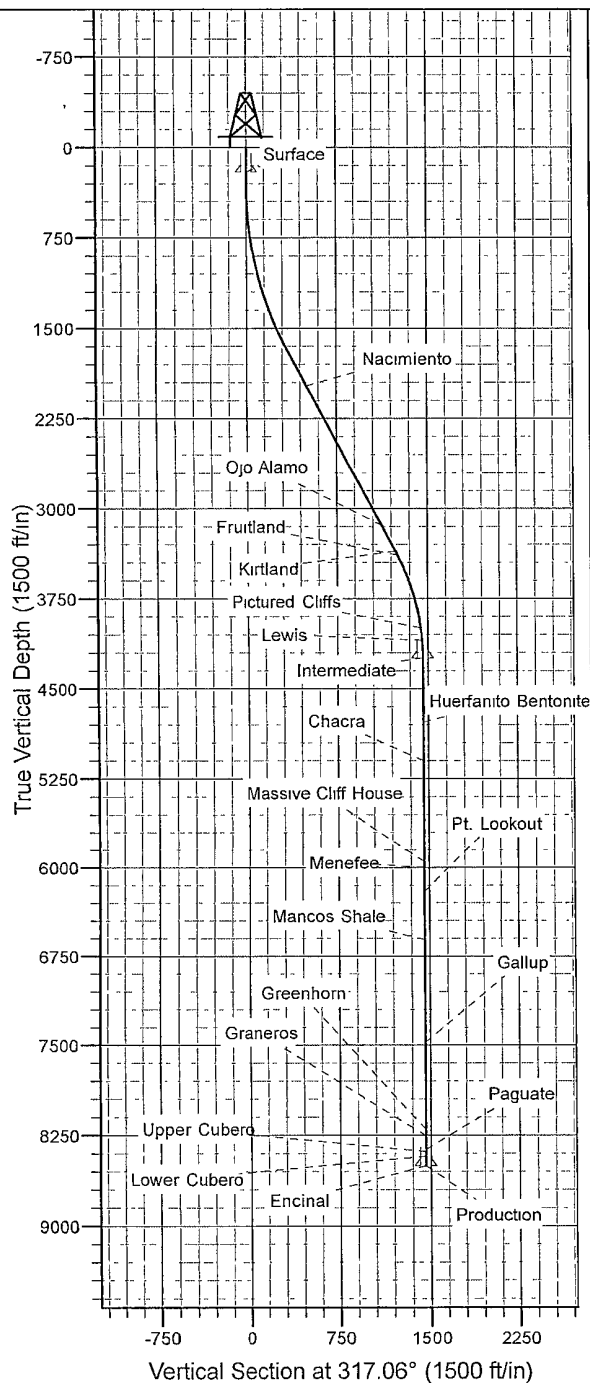
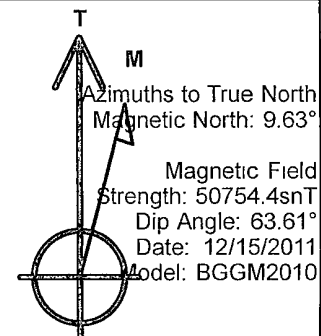


SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	320.0	0.00	0.00	320.0	0.0	0.0	0.00	0.00	0.0	
3	1725.3	28.11	317.06	1669.6	247.3	-230.1	2.00	317.06	337.8	
4	3625.0	28.11	317.06	3345.3	902.5	-839.7	0.00	0.00	1232.8	
5	4561.8	0.00	0.00	4245.0	1067.4	-993.2	3.00	180.00	1458.0	San Juan 30-5 #28A ICP
6	8819.8	0.00	0.00	8503.0	1067.4	-993.2	0.00	0.00	1458.0	San Juan 30-5 #28A PCP

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1979.0	2076.0	Nacimiento
3141.0	3393.4	Ojo Alamo
3357.0	3638.2	Kirtland
3386.0	3670.8	Fruitland
3991.0	4307.1	Pictured Cliffs
4096.0	4412.7	Lewis
4780.0	5096.8	Huerfano Bentonite
5099.0	5415.8	Chacra
5947.0	6263.8	Massive Cliff House
5998.0	6314.8	Menefee
6205.0	6521.8	Pt. Lookout
6611.0	6927.8	Mancos Shale
7479.0	7795.8	Gallup
8202.0	8518.8	Greenhorn
8253.0	8569.8	Graneros
8367.0	8683.8	Paguate
8385.0	8701.8	Upper Cubero
8425.0	8741.8	Lower Cubero
8503.0	8819.8	Encinal



Directions from the Post Office
in Blanco, NM
to
CONOCOPHILLIPS COMPANY
SAN JUAN 30-5 UNIT 28A
335' FSL & 805' FEL,
Section 23, T30N, R5W, N.M.P.M., Rio Arriba County,
New Mexico
Latitude: 36° 47' 30.40" N
Longitude: 107° 19' 13.58" W
Nad 83

From the Post Office in Blanco, NM
Take Highway 64 East for 28.8 miles
To Hwy 527 (Simms Mesa Hwy),
Turn left (northwest) on Hwy 527 for 8.0 miles,
To Rosa Road, turn right (northeast) for 6.6 miles,
Across La Jara Bridge to the y-intersection,
Turn right (northeasterly) 0.1 miles,
continue (southeasterly) for 0.8 miles to y-intersection,
stay right (southerly) for 0.8 miles to y-intersection,
stay left (southeasterly) for 2.9 miles to y-intersection,
stay left (east) 0.1 miles,
turn left (northeast) 0.4 miles,
continue (east) 1.0 miles,
continue (southerly) 1.4 miles,
continue (south) 0.6 miles,
continue (east-northeasterly) 0.9 miles,
to the beginning of new access on the left side of road,
proceed (northwesterly) 1977.29' to the newly staked location.