

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK MAY 12 2011



1a. Type of Work
DRILL

5. Lease Number
SF-078738 of Land Management

6. If Indian, All. or Tribe
Unit Reporting Number

1b. Type of Well
GAS

7. Unit Agreement Name
NM NM-78419A-MV
NM NM-78419B-DK
San Juan 30-5 Unit

2. Operator
ConocoPhillips
Company

8. Farm or Lease Name

9. Well Number
83N

3. Address & Phone No. of Operator
PO Box 4289, Farmington, NM 87499
(505) 326-9700

10. Field, Pool, Wildcat
Blanco MV / Basin DK

4. Location of Well
Surface: Unit L (NWSW), 1480' FSL & 1060' FWL
BHL: Unit K (NESW), 1480' FSL & 1930' FWL
Surface: Latitude: 36.794956° N (NAD83)
Longitude: 107.332093° W
BHL: Latitude: 36.794944° N (NAD83)
Longitude: 107.329131° W

11. Sec., Twn, Rge, Mer. (NMPM)
Sec. 23, T30N, R5W
API # 30-039-31076

14. Distance in Miles from Nearest Town
50.4 miles from Blanco, NM

12. County
Rio Arriba

13. State
NM

15. Distance from Proposed Location to Nearest Property or Lease Line
1060'

16. Acres in Lease
2219.76 acres

17. Acres Assigned to Well
MV - 320.00 acres W/2
DK - 320.00 acres W/2

18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease
51' from SJ 30-5 Unit 241 (FC)

19. Proposed Depth
8218'

20. Rotary or Cable Tools
Rotary

21. Elevations (DF, FT, GR, Etc.)
6794' GL

22. Approx. Date Work will Start

23. Proposed Casing and Cementing Program
See Operations Plan attached

24. Authorized by: Dollie L. Busse (Staff Regulatory Tech) April 29, 2011 Date

PERMIT NO. APPROVAL DATE

APPROVED BY [Signature] TITLE AEY DATE 7/6/11

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

for Directional Survey and "As Drilled" plat
AUG 01 2011

NMOCD

Hold C104 DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED GENERAL REQUIREMENTS.

NOTIFY AZTEC OCD 24 HRS. PRIOR TO CASING & CEMENT

APR 12 2011

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

State of New Mexico Bureau of Land Management
Energy, Minerals & Natural Resources Department
Form C-102
Revised October 12, 2005

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

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

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039- 31076		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 83N
⁷ GRID No. 217817		⁸ Operator Name CONOCOPHILLIPS COMPANY			⁹ Elevation 6794'

¹⁰ Surface Location

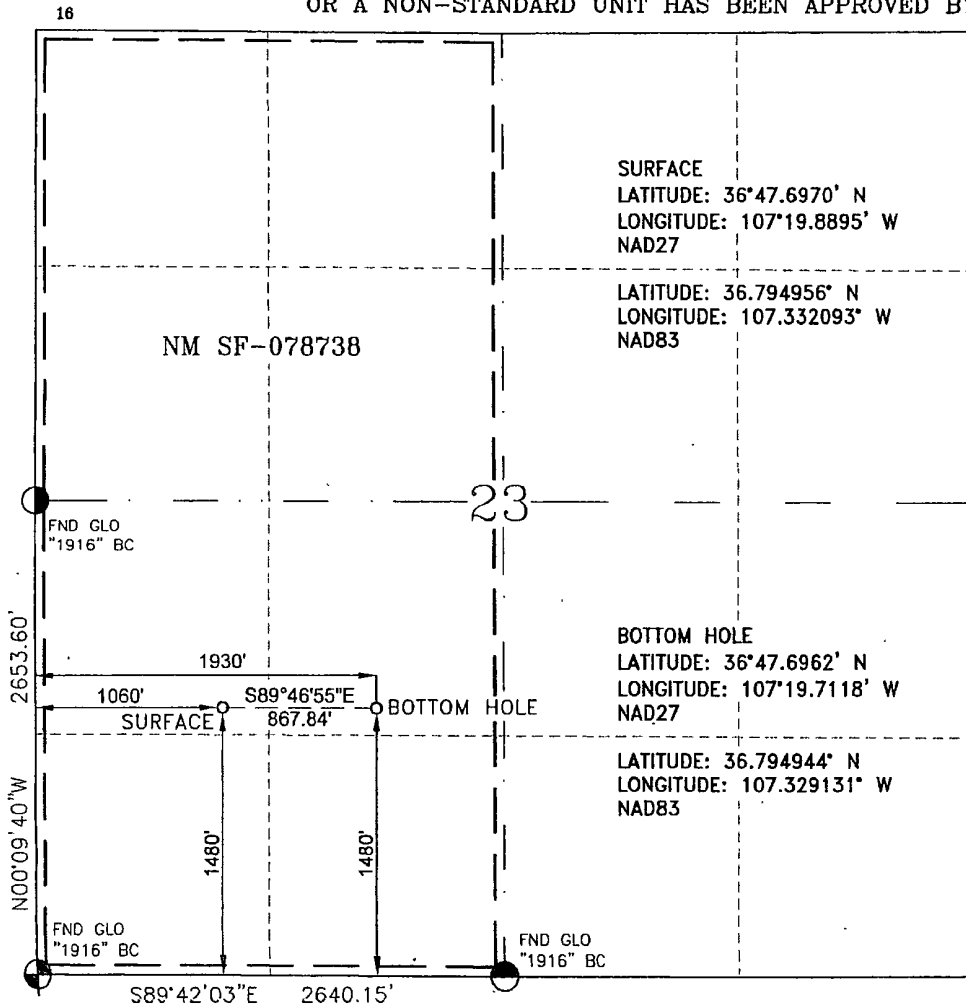
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	23	30-N	5-W		1480	SOUTH	1060	WEST	RIO ARRIBA

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
K	23	30-N	5-W		1480	SOUTH	1930	WEST	RIO ARRIBA

¹² Dedicated Acres DK 320.00 ACRES W/2 MV 320.00 ACRES 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 a working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Crystal Tafoya 2/12/09
Signature
Crystal Tafoya 2-12-09
Printed Name

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.

2-6-09
Date of Survey
Signature of Licensed Professional Surveyor:
GLEN W. RUSSELL
15703
Certificate Number 15703

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 30-5 UNIT 83N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.8251				AFE \$: 859,778.46	
Field Name: SAN JUAN		Rig: Aztec Rig 673		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						
FRR	BASIN DAKOTA (PRORATED GAS)						
RON	BLANCO MESAVERDE (PRORATED GAS)						
Location: Surface Datum Code NAD 27 Directional							
Latitude: 36.794949	Longitude: -107.331492	X:	Y:	Section: 23	Range: 005W		
Footage X: 1060 FWL	Footage Y: 1480 FSL	Elevation: 6794	(FT)	Township: 030N			
Tolerance:							
Location: Bottom Hole Datum Code NAD 27 Directional							
Latitude: 36.794937	Longitude: -107.328530	X:	Y:	Section: 23	Range: 005W		
Footage X: 1930 FWL	Footage Y: 1480 FSL	Elevation:	(FT)	Township: 030N			
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2012		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6810		Units = FT					
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	230	6580		☐			12-1/4 hole. 230' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.
NACIMIENTO	1688	5122		☐			
OJO ALAMO	2852	3958		☐			
KIRTLAND	3064	3746		☐			
FRUITLAND	3094	3716		☐			Possible Gas
PICTURED CLIFFS	3704	3106		☐			
LEWIS	3818	2992		☐			
Intermediate Casing	3918	2892		☐	122		8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 924 cuft. Circulate cement to surface.
HUERFANITO BENTONITE	4496	2314		☐			
CHACRA	4819	1991		☐			Est. Top Perf - 4820 (1989)
UPPER CLIFF HOUSE	5383	1427		☐			Gas; Cliffhouse is dry
MASSIVE CLIFF HOUSE	5662	1148		☐	663		Gas
MENEFEE	5718	1092		☐			
POINT LOOKOUT	5926	884		☐			
MANCOS	6329	481		☐			
UPPER GALLUP	7202	-392		☐			
GREENHORN	7919	-1109		☐			
GRANEROS	7970	-1160		☐			
TWO WELLS	8086	-1276		☐	3172		Gas
PAGUATE	8091	-1281		☐			
UPPER CUBERO	8104	-1294		☐			

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 30-5 UNIT 83N

DEVELOPMENT

LOWER CUBERO	8144	-1334	☐	Est. Btm Perf - 8197 (- 1388) based on offset wells
ENCINAL	8218	-1408	☐	TD - T/ENCN
Total Depth	8218	-1408	☐	214 6-1/4" hole, 4-1/2" 11.6 ppf, L-80, LTC casing. Cement w/ 585 cuft. Circulate cement a minimum of 100' inside the previous casing string.

Reference Wells:		
Reference Type	Well Name	Comments
Production	SJ 30-5 28X	30N 5W 23 NE NE
Production	SJ 30-5 Unit 83	30N 5W 23 SE NW SW
Production	SJ 30-5 Unit 94	30N 5W 27 SE NW NE
Production	SJ 30-5 Unit 93	30N 5W 26 SW NE NE
Production	SJ 30-5 Unit 90	30N 5W 22 NW SE NE

Logging Program:

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

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

Cased Hole GR / CBL

Mudlog from 100' above top of GLLP to TD - mudlogger will call TD.

Additional Information:					
Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 30-5 #83N
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6810 0ft (H&P RIGS)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6810 0ft (H&P RIGS)
Site:	San Juan 30 Wells	North Reference:	True
Well:	SJ 30-5 #83N	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 #83N, Directional "S", Curve Short, Lewis 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° 47' 41.820 N
		Longitude:	107° 19' 53.370 W
		Ground Level:	6,794.0 ft

Wellbore	Principal Wellbore		
Magnetics	Model Name	Sample Date	Declination
	BGGM2010	8/16/2010	9.81
			Dip Angle
			63.64
			Field Strength
			50,904

Design	Plan #1		
Audit Notes:			
Version:	1	Phase:	PROTOTYPE
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	0.0	0.0	0.0
			Direction
			(°)
			90.32

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	
1,388.9	32.07	90.32	1,334.0	-1.6	291.4	3.00	3.00	0.00	90.32	
1,924.7	32.07	90.32	1,788.0	-3.2	575.9	0.00	0.00	0.00	0.00	
2,993.6	0.00	0.00	2,802.0	-4.8	867.2	3.00	-3.00	0.00	180.00	SJ 30-5 #83N - VACP
4,109.6	0.00	0.00	3,918.0	-4.8	867.2	0.00	0.00	0.00	0.00	SJ 30-5 #83N - ICP
8,409.6	0.00	0.00	8,218.0	-4.8	867.2	0.00	0.00	0.00	0.00	SJ 30-5 #83N - 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 #83N
Wellbore: Principal Wellbore
Design: Plan #1

Local Co-ordinate Reference: Well SJ 30-5 #83N
TVD Reference: RKB @ 6810.0ft (H&P RIGS)
MD Reference: RKB @ 6810.0ft (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	90.32	400.0	0.0	1.7	1.7	3.00	3.00	0.00
500.0	5.40	90.32	499.7	0.0	8.5	8.5	3.00	3.00	0.00
600.0	8.40	90.32	599.0	-0.1	20.5	20.5	3.00	3.00	0.00
700.0	11.40	90.32	697.5	-0.2	37.7	37.7	3.00	3.00	0.00
800.0	14.40	90.32	795.0	-0.3	60.0	60.0	3.00	3.00	0.00
900.0	17.40	90.32	891.1	-0.5	87.4	87.4	3.00	3.00	0.00
1,000.0	20.40	90.32	985.7	-0.7	119.8	119.8	3.00	3.00	0.00
1,100.0	23.40	90.32	1,078.5	-0.9	157.1	157.1	3.00	3.00	0.00
1,200.0	26.40	90.32	1,169.2	-1.1	199.2	199.2	3.00	3.00	0.00
1,300.0	29.40	90.32	1,257.6	-1.4	246.0	246.0	3.00	3.00	0.00
1,388.9	32.07	90.32	1,334.0	-1.6	291.4	291.4	3.00	3.00	0.00
1,400.0	32.07	90.32	1,343.4	-1.7	297.3	297.3	0.00	0.00	0.00
1,500.0	32.07	90.32	1,428.1	-2.0	350.4	350.4	0.00	0.00	0.00
1,600.0	32.07	90.32	1,512.9	-2.3	403.5	403.5	0.00	0.00	0.00
1,700.0	32.07	90.32	1,597.6	-2.5	456.5	456.6	0.00	0.00	0.00
1,800.0	32.07	90.32	1,682.3	-2.8	509.6	509.6	0.00	0.00	0.00
1,806.7	32.07	90.32	1,688.0	-2.9	513.2	513.2	0.00	0.00	0.00
Nacimiento									
1,900.0	32.07	90.32	1,767.1	-3.1	562.7	562.7	0.00	0.00	0.00
1,924.7	32.07	90.32	1,788.0	-3.2	575.9	575.9	0.00	0.00	0.00
2,000.0	29.81	90.32	1,852.6	-3.4	614.6	614.6	3.00	-3.00	0.00
2,100.0	26.81	90.32	1,940.6	-3.7	662.0	662.0	3.00	-3.00	0.00
2,200.0	23.81	90.32	2,031.0	-3.9	704.7	704.7	3.00	-3.00	0.00
2,300.0	20.81	90.32	2,123.5	-4.1	742.7	742.7	3.00	-3.00	0.00
2,400.0	17.81	90.32	2,217.9	-4.3	775.7	775.7	3.00	-3.00	0.00
2,500.0	14.81	90.32	2,313.9	-4.5	803.8	803.8	3.00	-3.00	0.00
2,600.0	11.81	90.32	2,411.2	-4.6	826.8	826.8	3.00	-3.00	0.00
2,700.0	8.81	90.32	2,509.5	-4.7	844.7	844.7	3.00	-3.00	0.00
2,800.0	5.81	90.32	2,608.7	-4.8	857.4	857.4	3.00	-3.00	0.00
2,900.0	2.81	90.32	2,708.4	-4.8	864.9	865.0	3.00	-3.00	0.00
2,993.6	0.00	0.00	2,802.0	-4.8	867.2	867.3	3.00	-3.00	0.00
SJ 30-5 #83N - VACP									
3,000.0	0.00	0.00	2,808.4	-4.8	867.2	867.3	0.00	0.00	0.00
3,043.6	0.00	0.00	2,852.0	-4.8	867.2	867.3	0.00	0.00	0.00
Ojo Alamo									
3,100.0	0.00	0.00	2,908.4	-4.8	867.2	867.3	0.00	0.00	0.00
3,200.0	0.00	0.00	3,008.4	-4.8	867.2	867.3	0.00	0.00	0.00
3,255.6	0.00	0.00	3,064.0	-4.8	867.2	867.3	0.00	0.00	0.00
Kirtland									
3,270.6	0.00	0.00	3,079.0	-4.8	867.2	867.3	0.00	0.00	0.00
Stage Tool									
3,285.6	0.00	0.00	3,094.0	-4.8	867.2	867.3	0.00	0.00	0.00
Fruitland									
3,300.0	0.00	0.00	3,108.4	-4.8	867.2	867.3	0.00	0.00	0.00
3,400.0	0.00	0.00	3,208.4	-4.8	867.2	867.3	0.00	0.00	0.00
3,500.0	0.00	0.00	3,308.4	-4.8	867.2	867.3	0.00	0.00	0.00

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 30-5 #83N
Company:	ConocoPhillips SJBU	TVD Reference:	RKB @ 6810 0ft (H&P RIGS)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6810 0ft (H&P RIGS)
Site:	San Juan 30 Wells	North Reference:	True
Well:	SJ 30-5 #83N	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)	
3,600.0	0.00	0 00	3,408.4	-4.8	867.2	867.3	0 00	0.00	0.00	
3,700.0	0.00	0 00	3,508.4	-4.8	867.2	867.3	0 00	0.00	0.00	
3,800.0	0.00	0 00	3,608.4	-4.8	867.2	867.3	0 00	0.00	0.00	
3,895.6	0.00	0 00	3,704.0	-4.8	867.2	867.3	0 00	0.00	0.00	
Pictured Cliffs										
3,900.0	0.00	0 00	3,708.4	-4.8	867.2	867.3	0 00	0.00	0.00	
4,000.0	0.00	0 00	3,808.4	-4.8	867.2	867.3	0 00	0.00	0.00	
4,009.6	0.00	0 00	3,818.0	-4.8	867.2	867.3	0 00	0.00	0.00	
Lewis										
4,109.6	0.00	0 00	3,918.0	-4.8	867.2	867.3	0 00	0.00	0.00	
Int - SJ 30-5 #83N - ICP										
4,200.0	0.00	0 00	4,008.4	-4.8	867.2	867.3	0 00	0.00	0.00	
4,300.0	0.00	0 00	4,108.4	-4.8	867.2	867.3	0 00	0.00	0.00	
4,400.0	0.00	0 00	4,208.4	-4.8	867.2	867.3	0 00	0.00	0.00	
4,500.0	0.00	0 00	4,308.4	-4.8	867.2	867.3	0 00	0.00	0.00	
4,600.0	0.00	0 00	4,408.4	-4.8	867.2	867.3	0 00	0.00	0.00	
4,687.6	0.00	0 00	4,496.0	-4.8	867.2	867.3	0 00	0.00	0.00	
Huerfano Bentonite										
4,700.0	0.00	0 00	4,508.4	-4.8	867.2	867.3	0 00	0.00	0.00	
4,800.0	0.00	0 00	4,608.4	-4.8	867.2	867.3	0 00	0.00	0.00	
4,900.0	0.00	0 00	4,708.4	-4.8	867.2	867.3	0 00	0.00	0.00	
5,000.0	0.00	0 00	4,808.4	-4.8	867.2	867.3	0 00	0.00	0.00	
5,010.6	0.00	0 00	4,819.0	-4.8	867.2	867.3	0 00	0.00	0.00	
Chacra										
5,100.0	0.00	0 00	4,908.4	-4.8	867.2	867.3	0 00	0.00	0.00	
5,200.0	0.00	0 00	5,008.4	-4.8	867.2	867.3	0 00	0.00	0.00	
5,300.0	0.00	0 00	5,108.4	-4.8	867.2	867.3	0 00	0.00	0.00	
5,400.0	0.00	0 00	5,208.4	-4.8	867.2	867.3	0 00	0.00	0.00	
5,500.0	0.00	0 00	5,308.4	-4.8	867.2	867.3	0 00	0.00	0.00	
5,574.6	0.00	0 00	5,383.0	-4.8	867.2	867.3	0 00	0.00	0.00	
Upper Cliffhouse										
5,600.0	0.00	0 00	5,408.4	-4.8	867.2	867.3	0 00	0.00	0.00	
5,700.0	0.00	0 00	5,508.4	-4.8	867.2	867.3	0 00	0.00	0.00	
5,800.0	0.00	0 00	5,608.4	-4.8	867.2	867.3	0 00	0.00	0.00	
5,853.6	0.00	0 00	5,662.0	-4.8	867.2	867.3	0 00	0.00	0.00	
Massive Cliffhouse										
5,900.0	0.00	0 00	5,708.4	-4.8	867.2	867.3	0 00	0.00	0.00	
5,909.6	0.00	0 00	5,718.0	-4.8	867.2	867.3	0 00	0.00	0.00	
Menefee										
6,000.0	0.00	0 00	5,808.4	-4.8	867.2	867.3	0 00	0.00	0.00	
6,100.0	0.00	0 00	5,908.4	-4.8	867.2	867.3	0 00	0.00	0.00	
6,117.6	0.00	0 00	5,926.0	-4.8	867.2	867.3	0 00	0.00	0.00	
Point Lookout										
6,200.0	0.00	0 00	6,008.4	-4.8	867.2	867.3	0 00	0.00	0.00	
6,300.0	0.00	0 00	6,108.4	-4.8	867.2	867.3	0 00	0.00	0.00	
6,400.0	0.00	0 00	6,208.4	-4.8	867.2	867.3	0 00	0.00	0.00	
6,500.0	0.00	0 00	6,308.4	-4.8	867.2	867.3	0 00	0.00	0.00	
6,520.6	0.00	0 00	6,329.0	-4.8	867.2	867.3	0 00	0.00	0.00	
Mancos										
6,600.0	0.00	0 00	6,408.4	-4.8	867.2	867.3	0 00	0.00	0.00	
6,700.0	0.00	0 00	6,508.4	-4.8	867.2	867.3	0 00	0.00	0.00	
6,800.0	0.00	0 00	6,608.4	-4.8	867.2	867.3	0 00	0.00	0.00	

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 30-5 #83N
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6810.0ft (H&P RIGS)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6810.0ft (H&P RIGS)
Site:	San Juan 30 Wells	North Reference:	True
Well:	SJ 30-5 #83N	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)	
6,900.0	0.00	0.00	6,708.4	-4.8	867.2	867.3	0.00	0.00	0.00	
7,000.0	0.00	0.00	6,808.4	-4.8	867.2	867.3	0.00	0.00	0.00	
7,100.0	0.00	0.00	6,908.4	-4.8	867.2	867.3	0.00	0.00	0.00	
7,200.0	0.00	0.00	7,008.4	-4.8	867.2	867.3	0.00	0.00	0.00	
7,300.0	0.00	0.00	7,108.4	-4.8	867.2	867.3	0.00	0.00	0.00	
7,393.6	0.00	0.00	7,202.0	-4.8	867.2	867.3	0.00	0.00	0.00	
Upper Gallup										
7,400.0	0.00	0.00	7,208.4	-4.8	867.2	867.3	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,308.4	-4.8	867.2	867.3	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,408.4	-4.8	867.2	867.3	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,508.4	-4.8	867.2	867.3	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,608.4	-4.8	867.2	867.3	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,708.4	-4.8	867.2	867.3	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,808.4	-4.8	867.2	867.3	0.00	0.00	0.00	
8,100.0	0.00	0.00	7,908.4	-4.8	867.2	867.3	0.00	0.00	0.00	
8,110.6	0.00	0.00	7,919.0	-4.8	867.2	867.3	0.00	0.00	0.00	
Greenhorn										
8,161.6	0.00	0.00	7,970.0	-4.8	867.2	867.3	0.00	0.00	0.00	
Graneros										
8,200.0	0.00	0.00	8,008.4	-4.8	867.2	867.3	0.00	0.00	0.00	
8,277.6	0.00	0.00	8,086.0	-4.8	867.2	867.3	0.00	0.00	0.00	
Two Wells										
8,295.6	0.00	0.00	8,104.0	-4.8	867.2	867.3	0.00	0.00	0.00	
Upper Cubero										
8,300.0	0.00	0.00	8,108.4	-4.8	867.2	867.3	0.00	0.00	0.00	
8,335.6	0.00	0.00	8,144.0	-4.8	867.2	867.3	0.00	0.00	0.00	
Lower Cubero										
8,409.6	0.00	0.00	8,218.0	-4.8	867.2	867.3	0.00	0.00	0.00	
Encinal - Prod - SJ 30-5 #83N - PCP										

Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude	
SJ 30-5 #83N - ICP	0.00	0.00	3,918.0	-4.8	867.2	2,109,005.56	647,805.71	36° 47' 41.772 N	107° 19' 42.708 W	
- hit/miss target										
- plan hits target center										
- Circle (radius 100.0)										
SJ 30-5 #83N - PCP	0.00	0.00	8,218.0	-4.8	867.2	2,109,005.56	647,805.71	36° 47' 41.772 N	107° 19' 42.708 W	
- hit/miss target										
- plan hits target center										
- Circle (radius 100.0)										
SJ 30-5 #83N - VACP	0.00	0.00	2,802.0	-4.8	867.2	2,109,005.56	647,805.71	36° 47' 41.772 N	107° 19' 42.708 W	
- hit/miss target										
- 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 #83N
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6810.0ft (H&P RIGS)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6810.0ft (H&P RIGS)
Site:	San Juan 30 Wells	North Reference:	True
Well:	SJ 30-5 #83N	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	
4,109.6	3,918.0	Int	7	8-3/4	
8,409.6	8,218.0	Prod	4-1/2	6-1/4	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,009.6	3,818.0	Lewis		0.00	
8,161.6	7,970.0	Graneros		0.00	
3,043.6	2,852.0	Ojo Alamo		0.00	
8,277.6	8,086.0	Two Wells		0.00	
7,393.6	7,202.0	Upper Gallup		0.00	
5,853.6	5,662.0	Massive Cliffhouse		0.00	
3,270.6	3,079.0	Stage Tool		0.00	
8,409.6	8,218.0	Encinal		0.00	
4,687.6	4,496.0	Huerfano Bentonite		0.00	
6,117.6	5,926.0	Point Lookout		0.00	
1,806.7	1,688.0	Nacimiento		0.00	
8,110.6	7,919.0	Greenhorn		0.00	
5,574.6	5,383.0	Upper Cliffhouse		0.00	
3,255.6	3,064.0	Kirtland		0.00	
3,895.6	3,704.0	Pictured Cliffs		0.00	
8,295.6	8,104.0	Upper Cubero		0.00	
5,909.6	5,718.0	Menefee		0.00	
8,335.6	8,144.0	Lower Cubero		0.00	
5,010.6	4,819.0	Chacra		0.00	
3,285.6	3,094.0	Fruitland		0.00	
6,520.6	6,329.0	Mancos		0.00	

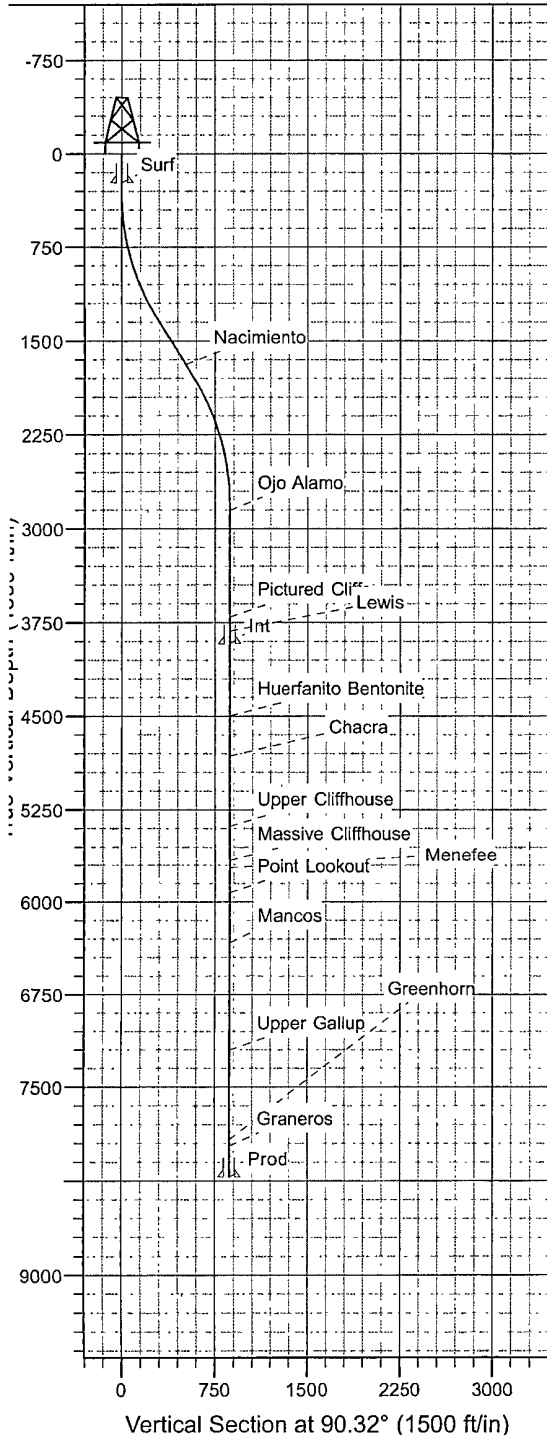
REFERENCE INFORMATION
 RKB @ 6810.0ft (H&P RIGS)
 Round Elevation 6794.0
 Reference Lat: 36° 47' 41.820 N
 Reference Long: 107° 19' 53.370 W

Project: San Juan Basin - New Mexico well
 Site: San Juan 30 Wells
 Well: SJ 30-5 #83N
 Wellbore: Principal Wellbore
 Design: Plan #1

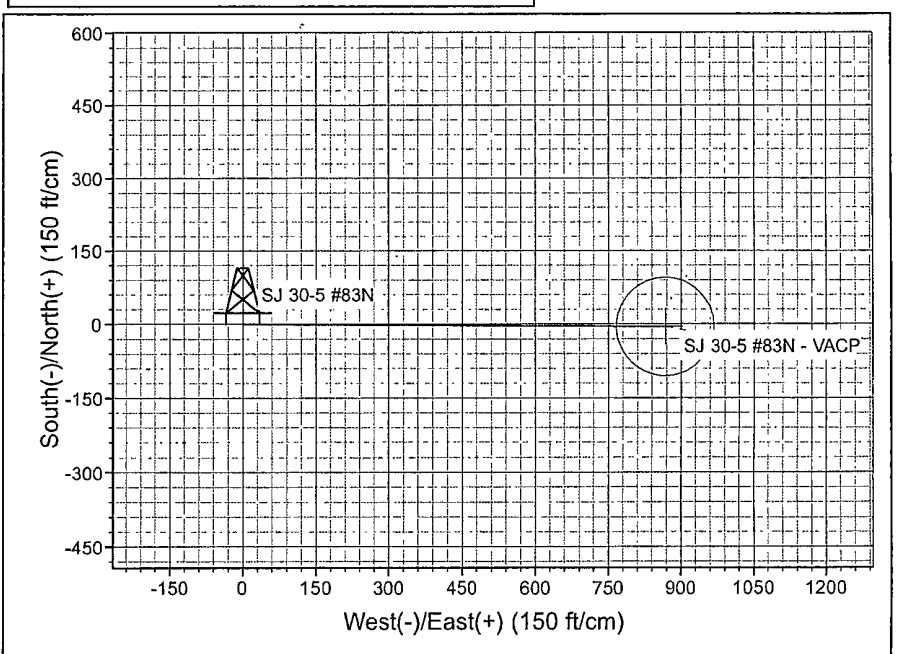
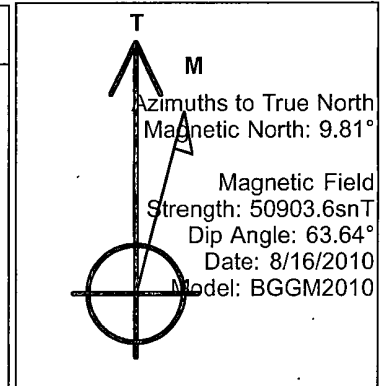


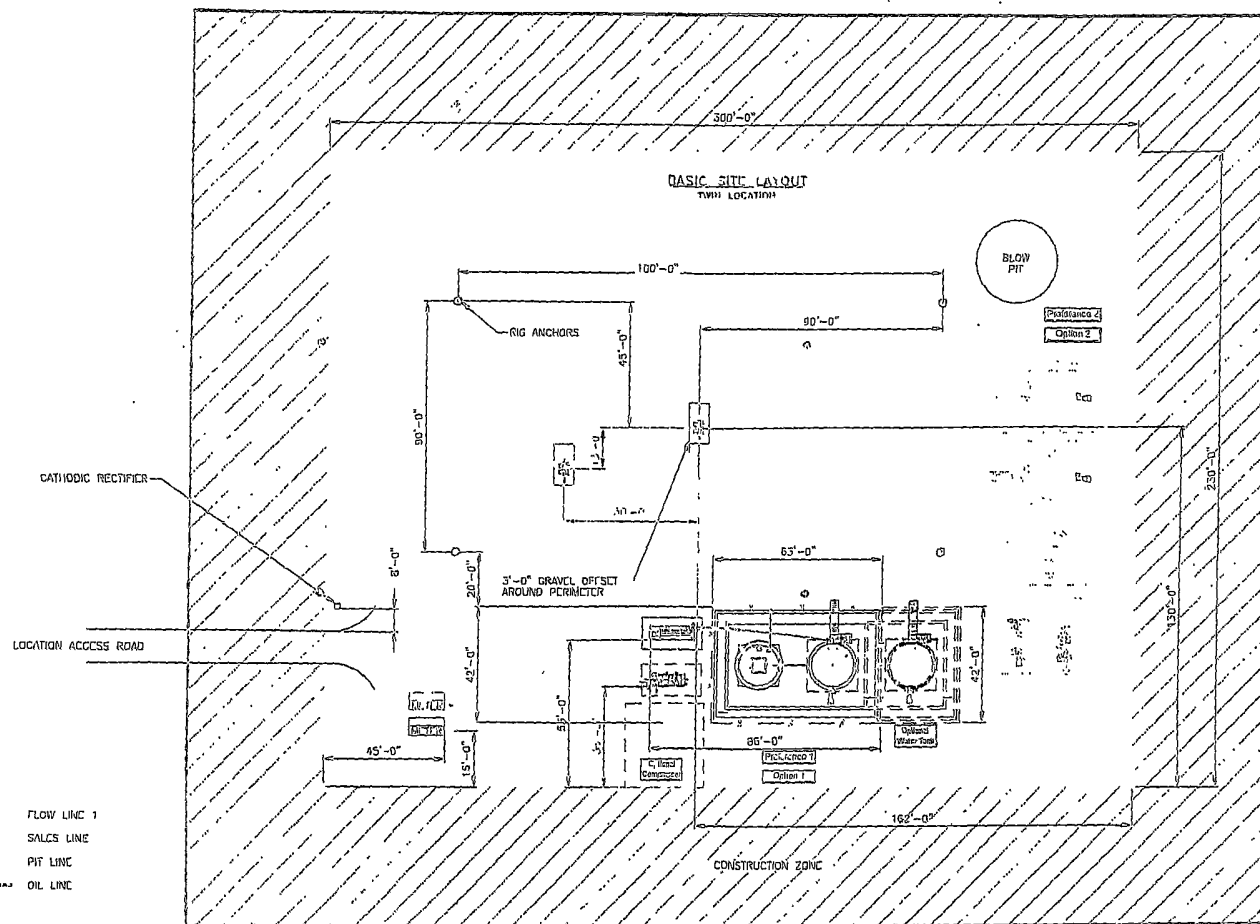
SECTION DETAILS

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	1388.9	32.07	90.32	1334.0	-1.6	291.4	3.00	90.32	291.4	
4	1924.7	32.07	90.32	1788.0	-3.2	575.9	0.00	0.00	575.9	
5	2993.6	0.00	0.00	2802.0	-4.8	867.2	3.00	180.00	867.3	SJ 30-5 #83N - VACP
6	4109.6	0.00	0.00	3918.0	-4.8	867.2	0.00	0.00	867.3	SJ 30-5 #83N - ICP
7	8409.6	0.00	0.00	8218.0	-4.8	867.2	0.00	0.00	867.3	SJ 30-5 #83N - PCP



FORMATION TOP DETAILS		
VDP	MD	Formation
1688.0	1806.7	Nacimiento
2852.0	3043.6	Ojo Alamo
3064.0	3255.6	Kirtland
3079.0	3270.6	Stage Tool
3094.0	3285.6	Fruitland
3704.0	3895.6	Pictured Cliffs
3818.0	4009.6	Lewis
4496.0	4687.6	Huerfano Bentonite
4819.0	5010.6	Chacra
5383.0	5574.6	Upper Cliffhouse
5662.0	5853.6	Massive Cliffhouse
5718.0	5909.6	Menefee
5926.0	6117.6	Point Lookout
6329.0	6520.6	Mancos
7202.0	7393.6	Upper Gallup
7919.0	8110.6	Greenhorn
7970.0	8161.6	Graneros
8086.0	8277.6	Two Wells
8104.0	8295.6	Upper Cubero
8144.0	8335.6	Lower Cubero
8218.0	8409.6	Encinal





SEE SHEET 3 OF 4 FOR PIPING DETAILS
ALL UNDERGROUND PIPING IS TO BE COVERED A MIN. OF 2'-0" TOP

SHEET 1 OF 5

										ENGINEERING REVIEW			REFERENCE DRAWINGS		CanocoPhillips		CONOCO PHILLIPS HIGH PRESSURE 3 PHASE FACILITY DIAGRAM- SITC LAYOUT			
										DESIGNED	REVIEWED	DATE	TITLE	DESIGNED BY						
										PROCESS										
										MECHANICAL										
										Piping										
										ELECTRICAL										
										N & C										
										CON. LABORATORY										
										THURST										
DESCRIPTION										DATE	BY	CHECKED	DATE	DATE	DATE	SAN JUAN BUSINESS UNIT		REVISION 12-1	CHECKED BY 1	APPROVED

Directions from the Post Office
in Blanco, NM to
CONOCOPHILLIPS COMPANY
SAN JUAN 30-5 UNIT 83N
1480' FSL & 1060' FWL,
Section 23, T30N, R5W, N.M.P.M.,
Rio Arriba County, New Mexico
Latitude: 36° 47' 41.84473" N
Longitude: 107° 19' 55.53691" W
Nad 1983

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 6.3 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 left (southeasterly) for 2.9 miles to y-intersection,
stay left (east) 0.1 miles,
turn left (northeasterly) 0.4 miles,
continue (east) 1.0 miles,
continue (southeasterly) 0.9 miles,
to the newly staked location twinned with existing well pad,
SAN JUAN 30-5 UNIT 241.