

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

JAN 14 2010

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Bureau of Land Management
Farmington Field Office

1a. Type of Work DRILL	5. Lease Number SF-078738 Unit Reporting Number	
1b. Type of Well GAS	6. If Indian, All. or Tribe	
2. Operator ConocoPhillips Company	7. Unit Agreement Name Nmnm-78419A-MV Nmnm-78419B-DK 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 RCVD MAR 11'11 9. Well Number 94N OIL CONS. DIV. DIST. 3	
4. Location of Well Surf: Unit B (NWNE), 716' FNL & 2312' FEL Surf: Unit O (SWSE), 710' FSL & 1930' FEL Surf: Latitude: 36.774446° N (NAD83) Longitude: 107.343610° W BH: Latitude: 36.778363° N (NAD83) Longitude: 107.342300° W	10. Field, Pool, Wildcat Blanco MV/Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 34, T30N, R5W Sec. 27, T30N, R5W API # 30-039- 31017	
14. Distance in Miles from Nearest Town 63.5 Miles from Bloomfield, NM	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 710'	17. Acres Assigned to Well 320.00 Acres (E/2)	
16. Acres in Lease 2,219.76	ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 1248' from San Juan 30-5 Unit 100 (DK)		
19. Proposed Depth 8321'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6913' GL	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Brandie Blakley</u> Brandie Blakley (Staff Regulatory Tech)	<u>1-14-11</u> Date	

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY [Signature] TITLE Petr. Eng. DATE 3/4/11
Acting ADM Minerals

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

for Directional Survey
and "As Drilled" plat

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

NMCCD MAR 16 2011

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

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 30-5 UNIT 94N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.8476				AFE \$: 1,011,239.98	
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:		Phone:		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: 36.774439	Longitude: -107.343009	X:	Y:	Section: 34	Range: 005W		
Footage X: 2312 FEL	Footage Y: 716 FNL	Elevation: 6913	(FT)	Township: 030N			
Tolerance:							
Location: Bottom Hole		Datum Code: NAD:27				Directional:	
Latitude: 36.778356	Longitude: -107.341699	X:	Y:	Section: 27	Range: 005W		
Footage X: 1930 FEL	Footage Y: 710 FSL	Elevation:	(FT)	Township: 030N			
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2011		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6929 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	230	6699		☐			12-1/4 hole. 230' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.
NACIMIENTO	1768	5161		☐			
OJO ALAMO	3048	3881		☐			
KIRTLAND	3185	3744		☐			
FRUITLAND	3237	3692		☐			Possible Gas
PICTURED CLIFFS	3823	3106		☐			
LEWIS	3951	2978		☐			
Intermediate Casing	4051	2878		☐	121		8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 999 cuft. Circulate cement to surface.
HUERFANITO BENTONITE	4625	2304		☐			
CHACRA	4922	2007		☐			Est. Top Perf - 4911(2005)
MASSIVE CLIFF HOUSE	5792	1137		☐	691		Gas: Cliffhouse Is Dry
MENEFEE	5834	1095		☐			
POINT LOOKOUT	6029	900		☐			
MANCOS	6451	478		☐			
UPPER GALLUP	7295	-366		☐			
GREENHORN	8027	-1098		☐			
GRANEROS	8077	-1148		☐			
PAGUATE	8190	-1261		☐	3254		Gas
UPPER CUBERO	8213	-1284		☐			
LOWER CUBERO	8251	-1322		☐			

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 30-5 UNIT 94N

DEVELOPMENT

Total Depth	8321	-1392	☐	213	6-1/4" hole, 4-1/2" 11.6 ppf, L-80, LTC / BTC casing. Cement w/ 581 cuft. Circulate cement a minimum of 100' inside the previous casing string.
ENCINAL	8321	-1392	☐		TD - T/ENCN: Est. Btm Perf - 8288 (- 1372) based on offset wells

Reference Wells:		
Reference Type	Well Name	Comments
Production	81 & 94	section 27 30-5
Production	100	NE34 30-5

Logging Program:

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

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

No OH logs. Mudlog from 100' above Greenhorn to TD - loggers will call TD.

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

REFERENCE INFORMATION

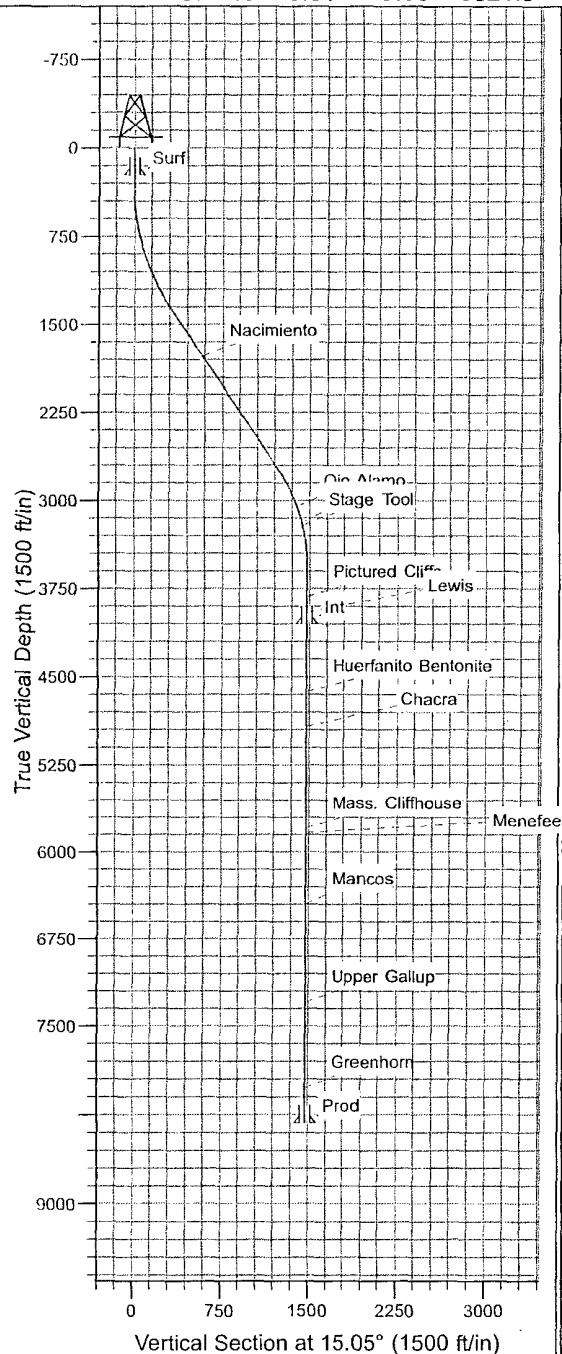
RKB @ 6929.0ft (H&P RIGS)
Ground Elevation 6913.0
Reference Lat: 36° 46' 27.981 N
Reference Long: 107° 20' 34.831 W

Project: San Juan Basin - New Mexico Well
Site: San Juan 30 Wells
Well: SJ 30-5 #94N
Wellbore: Principal Wellbore
Design: Plan #1

ConocoPhillips

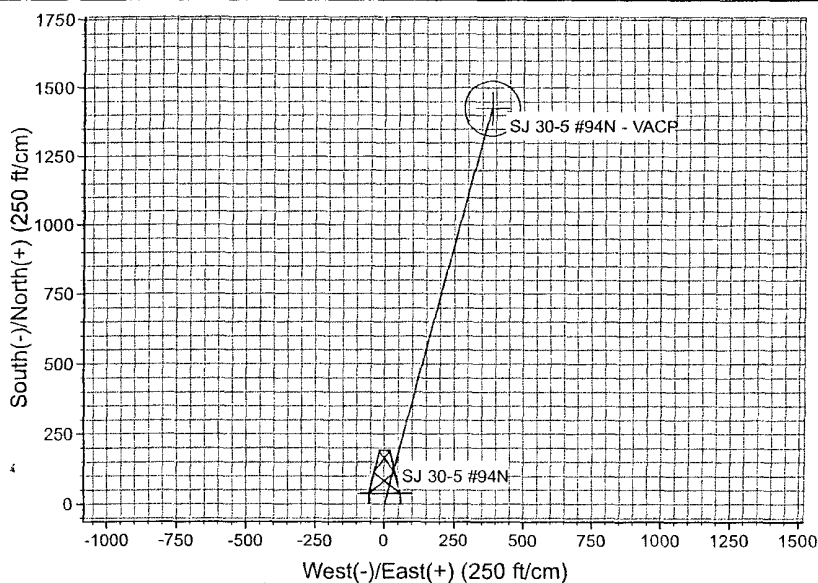
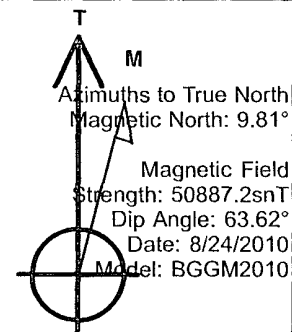
SECTION DETAILS

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	1449.7	33.89	15.05	1385.0	313.4	84.3	3.00	15.05	324.5	
4	3080.0	33.89	15.05	2738.3	1191.3	320.3	0.00	0.00	1233.6	
5	3927.3	0.00	0.00	3537.0	1426.3	383.5	4.00	180.00	1476.9	SJ 30-5 #94N - VACP
6	4441.3	0.00	0.00	4051.0	1426.3	383.5	0.00	0.00	1476.9	SJ 30-5 #94N - ICP
7	8711.3	0.00	0.00	8321.0	1426.3	383.5	0.00	0.00	1476.9	SJ 30-5 #94N - PCP



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1768.0	1911.1	Nacimiento
3048.0	3428.2	Ojo Alamo
3185.0	3571.6	Kirtland
3211.0	3598.4	Stage Tool
3237.0	3625.0	Fruitland
3823.0	4213.3	Pictured Cliffs
3951.0	4341.3	Lewis
4625.0	5015.3	Huerfano Bentonite
4922.0	5312.3	Chacra
5792.0	6182.3	Mass. Cliffhouse
5834.0	6224.3	Menefee
6029.0	6419.3	Point Lookout
6451.0	6841.3	Mancos
7295.0	7685.3	Upper Gallup
8027.0	8417.3	Greenhorn
8077.0	8467.3	Graneros
8190.0	8580.3	Paguates
8213.0	8603.3	Upper Cubero
8251.0	8641.3	Lower Cubero
8321.0	8711.3	Encinal



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Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 30-5 #94N
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6929.0ft (H&P RIGS)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6929.0ft (H&P RIGS)
Site:	San Juan 30 Wells	North Reference:	True
Well:	SJ 30-5 #94N	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	Latitude:	36° 48' 28.968 N	
From:	Lat/Long	Easting:	628,365.80 ft	Longitude:	107° 23' 41.454 W	
Position Uncertainty:		15.0 ft	Slot Radius:	"	Grid Convergence:	0.26 "

Well	SJ 30-5 #94N; Directional "S" Curve Long, Lewis Included					
Well Position	+N/-S	0.0 ft	Northing:	2,101,521.38 ft	Latitude:	36° 46' 27.981 N
	+E/-W	0.0 ft	Easting:	643,604.60 ft	Longitude:	107° 20' 34.831 W
Position Uncertainty		3.5 ft	Wellhead Elevation:	ft	Ground Level:	6,913.0 ft

Wellbore:	Principal Wellbore				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2010	8/24/2010	9.81	63.62	50,887

Design:	Plan #1				
Audit Notes:					
Version:	1	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth-From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	15.05	

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	
1,449.7	33.89	15.05	1,385.0	313.4	84.3	3.00	3.00	0.00	15.05	
3,080.0	33.89	15.05	2,738.3	1,191.3	320.3	0.00	0.00	0.00	0.00	
3,927.3	0.00	0.00	3,537.0	1,426.3	383.5	4.00	-4.00	0.00	180.00	SJ 30-5 #94N - VACP
4,441.3	0.00	0.00	4,051.0	1,426.3	383.5	0.00	0.00	0.00	0.00	SJ 30-5 #94N - ICP
8,711.3	0.00	0.00	8,321.0	1,426.3	383.5	0.00	0.00	0.00	0.00	SJ 30-5 #94N - PCP

ConocoPhillips or its affiliates

Planning Report

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Company:	ConocoPhillips SJBU	TVD Reference:	RKB @ 6929.0ft (H&P RIGS)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6929.0ft (H&P RIGS)
Site:	San Juan 30 Wells	North Reference:	True
Well:	SJ 30-5 #94N	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	2.40	15.05	400.0	1.6	0.4	1.7	3.00	3.00	0.00
500.0	5.40	15.05	499.7	8.2	2.2	8.5	3.00	3.00	0.00
600.0	8.40	15.05	599.0	19.8	5.3	20.5	3.00	3.00	0.00
700.0	11.40	15.05	697.5	36.4	9.8	37.7	3.00	3.00	0.00
800.0	14.40	15.05	795.0	57.9	15.6	60.0	3.00	3.00	0.00
900.0	17.40	15.05	891.1	84.4	22.7	87.4	3.00	3.00	0.00
1,000.0	20.40	15.05	985.7	115.7	31.1	119.8	3.00	3.00	0.00
1,100.0	23.40	15.05	1,078.5	151.7	40.8	157.1	3.00	3.00	0.00
1,200.0	26.40	15.05	1,169.2	192.3	51.7	199.2	3.00	3.00	0.00
1,300.0	29.40	15.05	1,257.6	237.5	63.9	246.0	3.00	3.00	0.00
1,400.0	32.40	15.05	1,343.4	287.1	77.2	297.3	3.00	3.00	0.00
1,449.7	33.89	15.05	1,385.0	313.4	84.3	324.5	3.00	3.00	0.00
1,500.0	33.89	15.05	1,426.7	340.4	91.5	352.5	0.00	0.00	0.00
1,600.0	33.89	15.05	1,509.7	394.3	106.0	408.3	0.00	0.00	0.00
1,700.0	33.89	15.05	1,592.7	448.1	120.5	464.1	0.00	0.00	0.00
1,800.0	33.89	15.05	1,675.7	502.0	135.0	519.8	0.00	0.00	0.00
1,900.0	33.89	15.05	1,758.8	555.8	149.5	575.6	0.00	0.00	0.00
1,911.1	33.89	15.05	1,768.0	561.8	151.1	581.8	0.00	0.00	0.00
Nacimiento									
2,000.0	33.89	15.05	1,841.8	609.7	163.9	631.3	0.00	0.00	0.00
2,100.0	33.89	15.05	1,924.8	663.5	178.4	687.1	0.00	0.00	0.00
2,200.0	33.89	15.05	2,007.8	717.4	192.9	742.9	0.00	0.00	0.00
2,300.0	33.89	15.05	2,090.8	771.2	207.4	798.6	0.00	0.00	0.00
2,400.0	33.89	15.05	2,173.8	825.1	221.9	854.4	0.00	0.00	0.00
2,500.0	33.89	15.05	2,256.8	878.9	236.3	910.2	0.00	0.00	0.00
2,600.0	33.89	15.05	2,339.8	932.8	250.8	965.9	0.00	0.00	0.00
2,700.0	33.89	15.05	2,422.8	986.6	265.3	1,021.7	0.00	0.00	0.00
2,800.0	33.89	15.05	2,505.8	1,040.5	279.8	1,077.4	0.00	0.00	0.00
2,900.0	33.89	15.05	2,588.9	1,094.3	294.3	1,133.2	0.00	0.00	0.00
3,000.0	33.89	15.05	2,671.9	1,148.2	308.7	1,189.0	0.00	0.00	0.00
3,080.0	33.89	15.05	2,738.3	1,191.3	320.3	1,233.6	0.00	0.00	0.00
3,100.0	33.09	15.05	2,755.0	1,201.9	323.2	1,244.6	4.00	-4.00	0.00
3,200.0	29.09	15.05	2,840.6	1,251.8	336.6	1,296.2	4.00	-4.00	0.00
3,300.0	25.09	15.05	2,929.6	1,295.7	348.4	1,341.8	4.00	-4.00	0.00
3,400.0	21.09	15.05	3,021.5	1,333.6	358.6	1,381.0	4.00	-4.00	0.00
3,428.2	19.96	15.05	3,048.0	1,343.2	361.2	1,390.9	4.00	-4.00	0.00
Ojo Alamo									
3,500.0	17.09	15.05	3,116.0	1,365.2	367.1	1,413.7	4.00	-4.00	0.00
3,571.6	14.23	15.05	3,185.0	1,383.9	372.1	1,433.0	4.00	-4.00	0.00
Kirtland									
3,598.4	13.16	15.05	3,211.0	1,390.0	373.8	1,439.3	4.00	-4.00	0.00
Stage Tool									
3,600.0	13.09	15.05	3,212.6	1,390.3	373.9	1,439.7	4.00	-4.00	0.00
3,625.0	12.09	15.05	3,237.0	1,395.6	375.3	1,445.2	4.00	-4.00	0.00
Fruitland									
3,700.0	9.09	15.05	3,310.7	1,408.9	378.8	1,458.9	4.00	-4.00	0.00

ConocoPhillips or its affiliates
Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 30-5 #94N
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6929.0ft (H&P RIGS)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6929.0ft (H&P RIGS)
Site:	San Juan 30 Wells	North Reference:	True
Well:	SJ 30-5 #94N	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)	
3,800.0	5.09	15.05	3,409.9	1,420.8	382.0	1,471.3	4.00	-4.00	0.00	
3,900.0	1.09	15.05	3,509.7	1,426.0	383.4	1,476.7	4.00	-4.00	0.00	
3,927.3	0.00	0.00	3,537.0	1,426.3	383.5	1,476.9	4.00	-4.00	0.00	
SJ 30-5 #94N - VACP										
4,000.0	0.00	0.00	3,609.7	1,426.3	383.5	1,476.9	0.00	0.00	0.00	
4,100.0	0.00	0.00	3,709.7	1,426.3	383.5	1,476.9	0.00	0.00	0.00	
4,200.0	0.00	0.00	3,809.7	1,426.3	383.5	1,476.9	0.00	0.00	0.00	
4,213.3	0.00	0.00	3,823.0	1,426.3	383.5	1,476.9	0.00	0.00	0.00	
Pictured Cliffs										
4,300.0	0.00	0.00	3,909.7	1,426.3	383.5	1,476.9	0.00	0.00	0.00	
4,341.3	0.00	0.00	3,951.0	1,426.3	383.5	1,476.9	0.00	0.00	0.00	
Lewis										
4,400.0	0.00	0.00	4,009.7	1,426.3	383.5	1,476.9	0.00	0.00	0.00	
4,441.3	0.00	0.00	4,051.0	1,426.3	383.5	1,476.9	0.00	0.00	0.00	
Int - SJ 30-5 #94N - ICP										
4,500.0	0.00	0.00	4,109.7	1,426.3	383.5	1,476.9	0.00	0.00	0.00	
4,600.0	0.00	0.00	4,209.7	1,426.3	383.5	1,476.9	0.00	0.00	0.00	
4,700.0	0.00	0.00	4,309.7	1,426.3	383.5	1,476.9	0.00	0.00	0.00	
4,800.0	0.00	0.00	4,409.7	1,426.3	383.5	1,476.9	0.00	0.00	0.00	
4,900.0	0.00	0.00	4,509.7	1,426.3	383.5	1,476.9	0.00	0.00	0.00	
5,000.0	0.00	0.00	4,609.7	1,426.3	383.5	1,476.9	0.00	0.00	0.00	
5,015.3	0.00	0.00	4,625.0	1,426.3	383.5	1,476.9	0.00	0.00	0.00	
Huerfano Bentonite										
5,100.0	0.00	0.00	4,709.7	1,426.3	383.5	1,476.9	0.00	0.00	0.00	
5,200.0	0.00	0.00	4,809.7	1,426.3	383.5	1,476.9	0.00	0.00	0.00	
5,300.0	0.00	0.00	4,909.7	1,426.3	383.5	1,476.9	0.00	0.00	0.00	
5,312.3	0.00	0.00	4,922.0	1,426.3	383.5	1,476.9	0.00	0.00	0.00	
Chacra										
5,400.0	0.00	0.00	5,009.7	1,426.3	383.5	1,476.9	0.00	0.00	0.00	
5,500.0	0.00	0.00	5,109.7	1,426.3	383.5	1,476.9	0.00	0.00	0.00	
5,600.0	0.00	0.00	5,209.7	1,426.3	383.5	1,476.9	0.00	0.00	0.00	
5,700.0	0.00	0.00	5,309.7	1,426.3	383.5	1,476.9	0.00	0.00	0.00	
5,800.0	0.00	0.00	5,409.7	1,426.3	383.5	1,476.9	0.00	0.00	0.00	
5,900.0	0.00	0.00	5,509.7	1,426.3	383.5	1,476.9	0.00	0.00	0.00	
6,000.0	0.00	0.00	5,609.7	1,426.3	383.5	1,476.9	0.00	0.00	0.00	
6,100.0	0.00	0.00	5,709.7	1,426.3	383.5	1,476.9	0.00	0.00	0.00	
6,182.3	0.00	0.00	5,792.0	1,426.3	383.5	1,476.9	0.00	0.00	0.00	
Mass. Cliffhouse										
6,200.0	0.00	0.00	5,809.7	1,426.3	383.5	1,476.9	0.00	0.00	0.00	
6,224.3	0.00	0.00	5,834.0	1,426.3	383.5	1,476.9	0.00	0.00	0.00	
Menefee										
6,300.0	0.00	0.00	5,909.7	1,426.3	383.5	1,476.9	0.00	0.00	0.00	
6,400.0	0.00	0.00	6,009.7	1,426.3	383.5	1,476.9	0.00	0.00	0.00	
6,419.3	0.00	0.00	6,029.0	1,426.3	383.5	1,476.9	0.00	0.00	0.00	
Point Lookout										
6,500.0	0.00	0.00	6,109.7	1,426.3	383.5	1,476.9	0.00	0.00	0.00	
6,600.0	0.00	0.00	6,209.7	1,426.3	383.5	1,476.9	0.00	0.00	0.00	
6,700.0	0.00	0.00	6,309.7	1,426.3	383.5	1,476.9	0.00	0.00	0.00	
6,800.0	0.00	0.00	6,409.7	1,426.3	383.5	1,476.9	0.00	0.00	0.00	
6,841.3	0.00	0.00	6,451.0	1,426.3	383.5	1,476.9	0.00	0.00	0.00	
Mancos										
6,900.0	0.00	0.00	6,509.7	1,426.3	383.5	1,476.9	0.00	0.00	0.00	

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Planning Report

Database: EDM Central Planning
Company: ConocoPhillips SJB
Project: San Juan Basin - New Mexico Wells
Site: San Juan 30 Wells
Well: SJ 30-5 #94N
Wellbore: Principal Wellbore
Design: Plan #1

Local Co-ordinate Reference: Well SJ 30-5 #94N
TVD Reference: RKB @ 6929.0ft (H&P RIGS)
MD Reference: RKB @ 6929.0ft (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)
7,000.0	0.00	0.00	6,609.7	1,426.3	383.5	1,476.9	0.00	0.00	0.00
7,100.0	0.00	0.00	6,709.7	1,426.3	383.5	1,476.9	0.00	0.00	0.00
7,200.0	0.00	0.00	6,809.7	1,426.3	383.5	1,476.9	0.00	0.00	0.00
7,300.0	0.00	0.00	6,909.7	1,426.3	383.5	1,476.9	0.00	0.00	0.00
7,400.0	0.00	0.00	7,009.7	1,426.3	383.5	1,476.9	0.00	0.00	0.00
7,500.0	0.00	0.00	7,109.7	1,426.3	383.5	1,476.9	0.00	0.00	0.00
7,600.0	0.00	0.00	7,209.7	1,426.3	383.5	1,476.9	0.00	0.00	0.00
7,685.3	0.00	0.00	7,295.0	1,426.3	383.5	1,476.9	0.00	0.00	0.00
Upper Gallup									
7,700.0	0.00	0.00	7,309.7	1,426.3	383.5	1,476.9	0.00	0.00	0.00
7,800.0	0.00	0.00	7,409.7	1,426.3	383.5	1,476.9	0.00	0.00	0.00
7,900.0	0.00	0.00	7,509.7	1,426.3	383.5	1,476.9	0.00	0.00	0.00
8,000.0	0.00	0.00	7,609.7	1,426.3	383.5	1,476.9	0.00	0.00	0.00
8,100.0	0.00	0.00	7,709.7	1,426.3	383.5	1,476.9	0.00	0.00	0.00
8,200.0	0.00	0.00	7,809.7	1,426.3	383.5	1,476.9	0.00	0.00	0.00
8,300.0	0.00	0.00	7,909.7	1,426.3	383.5	1,476.9	0.00	0.00	0.00
8,400.0	0.00	0.00	8,009.7	1,426.3	383.5	1,476.9	0.00	0.00	0.00
8,417.3	0.00	0.00	8,027.0	1,426.3	383.5	1,476.9	0.00	0.00	0.00
Greenhorn									
8,467.3	0.00	0.00	8,077.0	1,426.3	383.5	1,476.9	0.00	0.00	0.00
Graneros									
8,500.0	0.00	0.00	8,109.7	1,426.3	383.5	1,476.9	0.00	0.00	0.00
8,580.3	0.00	0.00	8,190.0	1,426.3	383.5	1,476.9	0.00	0.00	0.00
Paguates									
8,600.0	0.00	0.00	8,209.7	1,426.3	383.5	1,476.9	0.00	0.00	0.00
8,603.3	0.00	0.00	8,213.0	1,426.3	383.5	1,476.9	0.00	0.00	0.00
Upper Cubero									
8,641.3	0.00	0.00	8,251.0	1,426.3	383.5	1,476.9	0.00	0.00	0.00
Lower Cubero									
8,700.0	0.00	0.00	8,309.7	1,426.3	383.5	1,476.9	0.00	0.00	0.00
8,711.3	0.00	0.00	8,321.0	1,426.3	383.5	1,476.9	0.00	0.00	0.00
Encinal - Prod - SJ 30-5 #94N - PCP									

Targets

Target Name	hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
SJ 30-5 #94N - PCP	- plan hits target center - Circle (radius 100.0)	0.00	0.00	8,321.0	1,426.3	383.5	2,102,949.51	643,980.78	36° 46' 42.084 N	107° 20' 30.117 W
SJ 30-5 #94N - VACP	- plan hits target center - Circle (radius 100.0)	0.00	0.00	3,537.0	1,426.3	383.5	2,102,949.51	643,980.78	36° 46' 42.084 N	107° 20' 30.117 W
SJ 30-5 #94N - ICP	- plan hits target center - Circle (radius 100.0)	0.00	0.00	4,051.0	1,426.3	383.5	2,102,949.51	643,980.78	36° 46' 42.084 N	107° 20' 30.117 W

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 30-5 #94N
Company:	ConocoPhillips SJBU	TVD Reference:	RKB @ 6929.0ft (H&P RIGS)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6929.0ft (H&P RIGS)
Site:	San Juan 30 Wells	North Reference:	True
Well:	SJ 30-5 #94N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #1		

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
4,441.3	4,051.0	Int	7	8-3/4
8,711.3	8,321.0	Prod	4-1/2	6-1/4
230.0	230.0	Surf	9-5/8	12-1/4

Formations

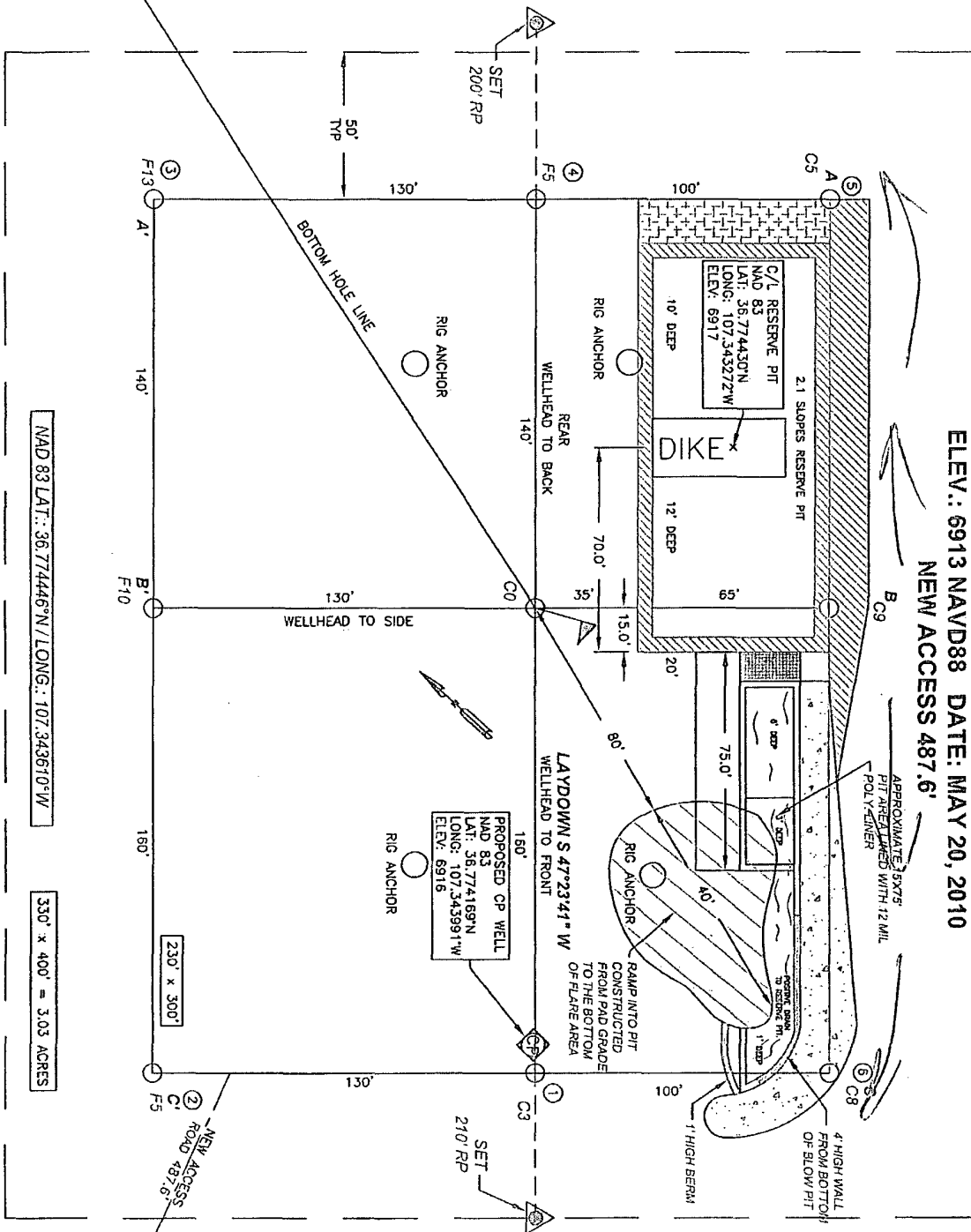
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
6,182.3	5,792.0	Mass. Cliffhouse		0.00	
6,419.3	6,029.0	Point Lookout		0.00	
5,312.3	4,922.0	Chacra		0.00	
8,417.3	8,027.0	Greenhorn		0.00	
4,213.3	3,823.0	Pictured Cliffs		0.00	
3,625.0	3,237.0	Fruitland		0.00	
8,711.3	8,321.0	Encinal		0.00	
6,841.3	6,451.0	Mancos		0.00	
1,911.1	1,768.0	Nacimiento		0.00	
7,685.3	7,295.0	Upper Gallup		0.00	
3,571.6	3,185.0	Kirtland		0.00	
4,341.3	3,951.0	Lewis		0.00	
3,428.2	3,048.0	Ojo Alamo		0.00	
8,603.3	8,213.0	Upper Cubero		0.00	
8,467.3	8,077.0	Graneros		0.00	
3,598.4	3,211.0	Stage Tool		0.00	
8,641.3	8,251.0	Lower Cubero		0.00	
5,015.3	4,625.0	Huerfano Bentonite		0.00	
6,224.3	5,834.0	Menefee		0.00	
8,580.3	8,190.0	Paguates		0.00	

CONOCOPHILLIPS COMPANY

716' FNL, 2312' FEL
SAN JUAN 30-5 UNIT #94N

SECTION 34, T-30-N, R-5-W, N.M.P.M.,
RIO ARriba COUNTY, NEW MEXICO

ELEV.: 6913 NAVD88 DATE: MAY 20, 2010
NEW ACCESS 487.6'



NOTES:

1. RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW-3' WIDE AND 1' ABOVE SHALLOW SIDE).
2. C.C.I. SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

CONOCOPHILLIPS COMPANY

SAN JUAN 30-5 UNIT #94N
716' FNL, 2312' FEL
SECTION 34, T-30-N, R-5-W, N.M.P.M.,
RIO ARriba COUNTY, NEW MEXICO
NAD 83 LAT.: 36.774446° N LONG.: 107.343610° W
ELEV.: 6913 NAVD88
NEW ACCESS 487.6'

FROM BLOOMFIELD, N.M.:

- GO 50.1 MI. EAST TO MILE POST 114.4 ON STATE HWY. 64 TOWARD DULCE, N.M. TURN LEFT AT FOREST ROAD 310.
- GO 3.8 MI. NORTH ON F.R. 310. TURN LEFT (SOUTH) ON F.R. 312 TO MESTENAS MESA.
- GO 4.8 MI. SOUTHWESTERLY ALONG MESTENAS MESA. TURN RIGHT (WEST) JUST PAST MESTENAS PEAK.
- GO 0.4 MI. WEST. TURN LEFT.
- GO 2.3 MI. WESTERLY ALONG MESTENAS MESA GOING DOWN STEEP GRADE OFF OF MESA. CONTINUE WEST FROM ROAD INTERSECTION. (NOTE: TAKING THE RIGHT TURN AT THIS INTERSECTION WILL TAKE YOU INTO MANUEL CANYON AND ESPINOSA RANCH. THIS ROAD MAY BE CLOSED AND IS STEEP WITH HAIR PIN CURVES)
- GO 0.9 MI. WEST FROM INTERSECTION. TURN RIGHT (NORTH).
- GO 0.4 MI. NORTH. THROUGH LOCKED AT GATE AT FOREST BOUNDARY. TURN LEFT (SOUTHWEST).
- GO 0.3 MI. TURN RIGHT (NORTHWEST).
- GO 0.6 MI. NORTHWEST. BEGIN 487.6' NEW ACCESS ON RIGHT.