

RECEIVED

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APR 07 2011

RCUD DEC 22 '11

Farmington Field Office
Bureau of Land Management

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	5. Lease Number NM-012332 Unit Reporting Number DIST. 3
1b. Type of Well GAS	6. If Indian, All. or Tribe
2. Operator ConocoPhillips Company	7. Unit Agreement Name MV-NMNM78419A OK-NMNM78419B 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 San Juan 30-5 Unit 9. Well Number 86M
4. Location of Well Surface: Unit I (NESE), 2070' FSL & 910' FEL BHL: Unit J (NWSE), 1875' FSL & 1930' FEL Surface: Latitude: 36.767591° N (NAD83) Longitude: 107.320820° W BHL: Latitude: 36.767057° N (NAD83) Longitude: 107.324303° W	10. Field, Pool, Wildcat Blanco MV / Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 35, T30N, R5W API # 30-039-31049
14. Distance in Miles from Nearest Town 50.8 miles from Blanco, NM	12. County Rio Arriba 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 910'	
16. Acres in Lease 1280.00 acres	17. Acres Assigned to Well DK-320.00 acres S/2 MV-320.00 acres E/2
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 2267' from SJ 30-5 Unit 4 (MV)	
19. Proposed Depth 8507' This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 7144' GL	22. Approx. Date Work will Start DRILLING OPERATIONS AUTHORIZED AT SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".
23. Proposed Casing and Cementing Program See Operations Plan attached	
24. Authorized by: <u>Dollie L. Busse</u> Dollie L. Busse (Staff Regulatory Tech)	Date <u>April 6, 2011</u>

Hold C104
for Directional Survey
"As Drilled" plat

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

Archaeological Report attached

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 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

RELIEVE THE LESSEE AND
OPERATOR FROM OBTAINING ANY OTHER
AUTHORIZATION REQUIRED FOR OPERATIONS
ON FEDERAL AND INDIAN LANDS

NOTIFY AZTEC OCD 24 HRS.

PRIOR TO CASING & CEMENT

CAJAN 1 3 2012

NMOCDA

PC

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

State of New Mexico
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

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

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

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-31049		*Pool Code 71599/72319	*Pool Name BASIN DAKOTA/BLANCO MESAVERDE
*Property Code 31327	*Property Name SAN JUAN 30 - 5 UNIT		*Well Number 86M
*OCRID No. 217817	*Operator Name CONOCOPHILLIPS COMPANY		*Elevation 7144'

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
1	35	30-N	5-W		2070	SOUTH	910	EAST	RIO ARRIBA

"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	35	30-N	5-W		1875	SOUTH	1930	EAST	RIO ARRIBA

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
DK 320.00 ACRES S/2			
MV 320.00 ACRES E/2			

**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

BASIS OF BEARING:
BETWEEN FOUND MONUMENTS AT THE SOUTHEAST CORNER AND THE EAST
QUARTER CORNER OF SECTION 35, TOWNSHIP 30 NORTH, RANGE 5 WEST, N.M.P.M.
RIO ARriba COUNTY, NEW MEXICO.

LINE BEARS: N 0° 07' 39" W A DISTANCE OF 2640.87 FEET AS MEASURED BY G.P.S.

USA NM-012332

BOTTOM HOLE
LATITUDE: 36°46.0230' N
LONGITUDE: 107°19.4221' W
NAD27

LATITUDE: 36.767057° N
LONGITUDE: 107.324303° W
NAD83

USA NM-012332

FND GLO "1916" BC

35

USA NM-012332

SURFACE
LATITUDE: 36°46.0550' N
LONGITUDE: 107°19.2132' W
NAD27

LATITUDE: 36.767591° N
LONGITUDE: 107.320820° W
NAD83

USA NM-012332

T-30-N
T-29-N

N89°59'12"W
2636.56'

1930'
910'
S79°08'08"W
1038.8'

BOTTOM HOLE
SURFACE

1875'
2070'

FND GLO "1914" BC
FND GLO "1914" BC

N89°59'47"W
2634.38'

00°07'39"W
2640.87'
S00°10'40"E
2640.67'

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 unless 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.

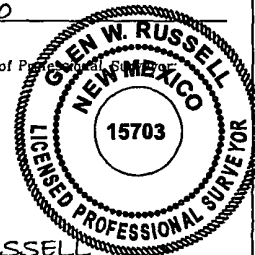
Ethel Tally
Signature
Ethel Tally
Printed Name

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.

March 5, 2010
Date of Survey

Signature and Seal of Professional Supervisor



GLEN W. RUSSELL
Certificate Number 15703

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 30-5 UNIT 86M

DEVELOPMENT

Lease:		AFE #: WAN.CDR.8504				AFE \$: 1,615,807.30	
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: 36.767584	Longitude: -107.320219	X:	Y:	Section: 35	Range: 005W		
Footage X: 910 FEL	Footage Y: 2070 FSL	Elevation: 7144	(FT)	Township: 030N			
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27 Directional							
Latitude: 36.767050	Longitude: -107.323702	X:	Y:	Section: 35	Range: 005W		
Footage X: 1930 FEL	Footage Y: 1875 FSL	Elevation:	(FT)	Township: 030N			
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2012		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 7159 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	200	6959		☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.
NACIMIENTO	2039	5120		☐			
OJO ALAMO	3236	3923		☐			
KIRTLAND	3361	3798		☐			
FRUITLAND	3449	3710		☐	775		Possible Gas
PICTURED CLIFFS	4035	3124		☐	1280		
LEWIS	4177	2982		☐			
Intermediate Casing	4277	2882		☐			8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 998 cuft. Circulate cement to surface.
HUERFANITO BENTONITE	4849	2310		☐			
CHACRA	5135	2024		☐			
MASSIVE CLIFF HOUSE	6017	1142		☐	775		Gas
MENEFEE	6041	1118		☐			
POINT LOOKOUT	6251	908		☐			
MANCOS	6682	477		☐			
UPPER GALLUP	7506	-347		☐			
GREENHORN	8241	-1082		☐			
GRANEROS	8291	-1132		☐			
TWO WELLS	8395	-1236		☐	3400		Gas
PAGUATE	8406	-1247		☐			CBRO appears to be dominant contributor
UPPER CUBERO	8417	-1258		☐			77M wet in CBRO but need to complete down to upper CBRL sand

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 30-5 UNIT 86M

DEVELOPMENT

LOWER CUBERO	8451	-1292	☐	Perf only upper sand in CBRL - at edge of prod with area issues
OAK CANYON	8507	-1348	☐	TD at top of OKCN - bottom perf 40' off TD
Total Depth	8507	-1348	☐	6-1/4" hole, 4-1/2" 11.6 ppf, L-80 LTC casing. Cement w/ 576 cuft. Circulate cement a minimum of 100' inside the previous casing string.

Reference Wells:		
Reference Type	Well Name	Comments
Production	30-5 101	ne35 30-5
Production	30-5 86	sw35 30-5
Production	30-5 85	sw36 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 open hole logs required. Mud log from 100' above Greenhorn to TD - loggers will call TD

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

ConocoPhillips SJB

San Juan Basin - New Mexico Central Wells

San Juan 30 Wells

San Juan 30-5 #86M

SJ 30-5 #86M

Plan: Plan #1

Standard Planning Report

22 March, 2011

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well San Juan 30-5 #86M
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 7159 0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Central Wells	MD Reference:	WELL @ 7159 0ft (Original Well Elev)
Site:	San Juan 30 Wells	North Reference:	True
Well:	San Juan 30-5 #86M	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 30-5 #86M		
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				
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 #86M					
Well Position	+N/-S	0.0 ft	Northing:	2,100,375.20 ft	Latitude:	36° 46' 3.300 N
	+E/-W	0.0 ft	Easting:	186,530.88 ft	Longitude:	107° 19' 12.792 W
Position Uncertainty		3.0 ft	Wellhead Elevation:	ft	Ground Level:	7,144.0 ft

Wellbore:	SJ 30-5 #86M				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	BGGM2010	3/21/2011	9.73	63.61	50,822

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.0	0.0	0.0	259.22

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	
400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,498.7	21.97	259.22	1,471.9	-38.9	-204.4	2.00	2.00	0.00	259.22	
3,346.3	21.97	259.22	3,185.4	-168.2	-883.6	0.00	0.00	0.00	0.00	
4,078.8	0.00	0.00	3,900.0	-194.2	-1,019.9	3.00	-3.00	0.00	180.00	SJ 30-5 Unit 86M Pre
4,455.8	0.00	0.00	4,277.0	-194.2	-1,019.9	0.00	0.00	0.00	0.00	SJ 30-5 Unit 86M ICP
8,685.8	0.00	0.00	8,507.0	-194.2	-1,019.9	0.00	0.00	0.00	0.00	SJ 30-5 Unit 86M PCI

ConocoPhillips or its affiliates

Planning Report

Database: EDM Central Planning
 Company: ConocoPhillips SJB
 Project: San Juan Basin - New Mexico Central Wells
 Site: San Juan 30 Wells
 Well: San Juan 30-5 #86M
 Wellbore: SJ 30-5 #86M
 Design: Plan #1

Local Co-ordinate Reference: Well San Juan 30-5 #86M
 TVD Reference: WELL @ 7159.0ft (Original Well Elev)
 MD Reference: WELL @ 7159.0ft (Original Well Elev)
 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
Surface									
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	2.00	259.22	500.0	-0.3	-1.7	1.7	2.00	2.00	0.00
600.0	4.00	259.22	599.8	-1.3	-6.9	7.0	2.00	2.00	0.00
700.0	6.00	259.22	699.5	-2.9	-15.4	15.7	2.00	2.00	0.00
800.0	8.00	259.22	798.7	-5.2	-27.4	27.9	2.00	2.00	0.00
900.0	10.00	259.22	897.5	-8.1	-42.8	43.5	2.00	2.00	0.00
1,000.0	12.00	259.22	995.6	-11.7	-61.5	62.6	2.00	2.00	0.00
1,100.0	14.00	259.22	1,093.1	-15.9	-83.6	85.1	2.00	2.00	0.00
1,200.0	16.00	259.22	1,189.6	-20.8	-109.0	111.0	2.00	2.00	0.00
1,300.0	18.00	259.22	1,285.3	-26.2	-137.7	140.2	2.00	2.00	0.00
1,400.0	20.00	259.22	1,379.8	-32.3	-169.7	172.8	2.00	2.00	0.00
1,498.7	21.97	259.22	1,471.9	-38.9	-204.4	208.1	2.00	2.00	0.00
1,500.0	21.97	259.22	1,473.2	-39.0	-204.9	208.6	0.00	0.00	0.00
1,600.0	21.97	259.22	1,565.9	-46.0	-241.7	246.0	0.00	0.00	0.00
1,700.0	21.97	259.22	1,658.6	-53.0	-278.4	283.4	0.00	0.00	0.00
1,800.0	21.97	259.22	1,751.4	-60.0	-315.2	320.9	0.00	0.00	0.00
1,900.0	21.97	259.22	1,844.1	-67.0	-352.0	358.3	0.00	0.00	0.00
2,000.0	21.97	259.22	1,936.8	-74.0	-388.7	395.7	0.00	0.00	0.00
2,100.0	21.97	259.22	2,029.6	-81.0	-425.5	433.1	0.00	0.00	0.00
2,110.2	21.97	259.22	2,039.0	-81.7	-429.2	436.9	0.00	0.00	0.00
Nacimiento									
2,200.0	21.97	259.22	2,122.3	-88.0	-462.2	470.5	0.00	0.00	0.00
2,300.0	21.97	259.22	2,215.1	-95.0	-499.0	507.9	0.00	0.00	0.00
2,400.0	21.97	259.22	2,307.8	-102.0	-535.7	545.4	0.00	0.00	0.00
2,500.0	21.97	259.22	2,400.5	-109.0	-572.5	582.8	0.00	0.00	0.00
2,600.0	21.97	259.22	2,493.3	-116.0	-609.3	620.2	0.00	0.00	0.00
2,700.0	21.97	259.22	2,586.0	-123.0	-646.0	657.6	0.00	0.00	0.00
2,800.0	21.97	259.22	2,678.7	-130.0	-682.8	695.0	0.00	0.00	0.00
2,900.0	21.97	259.22	2,771.5	-137.0	-719.5	732.5	0.00	0.00	0.00
3,000.0	21.97	259.22	2,864.2	-144.0	-756.3	769.9	0.00	0.00	0.00
3,100.0	21.97	259.22	2,956.9	-151.0	-793.0	807.3	0.00	0.00	0.00
3,200.0	21.97	259.22	3,049.7	-158.0	-829.8	844.7	0.00	0.00	0.00
3,300.0	21.97	259.22	3,142.4	-165.0	-866.6	882.1	0.00	0.00	0.00
3,346.3	21.97	259.22	3,185.4	-168.2	-883.6	899.5	0.00	0.00	0.00
3,400.0	20.36	259.22	3,235.4	-171.8	-902.6	918.8	3.00	-3.00	0.00
3,400.6	20.34	259.22	3,236.0	-171.9	-902.8	919.1	3.00	-3.00	0.00
Ojo Alamo									
3,500.0	17.36	259.22	3,330.0	-177.9	-934.4	951.2	3.00	-3.00	0.00
3,532.4	16.39	259.22	3,361.0	-179.6	-943.6	960.6	3.00	-3.00	0.00
Kirtland									
3,600.0	14.36	259.22	3,426.2	-183.0	-961.2	978.5	3.00	-3.00	0.00
3,623.5	13.66	259.22	3,449.0	-184.1	-966.8	984.2	3.00	-3.00	0.00
Fruitland									
3,700.0	11.36	259.22	3,523.7	-187.2	-983.1	1,000.8	3.00	-3.00	0.00
3,800.0	8.36	259.22	3,622.2	-190.4	-999.9	1,017.9	3.00	-3.00	0.00
3,900.0	5.36	259.22	3,721.5	-192.6	-1,011.7	1,029.8	3.00	-3.00	0.00
4,000.0	2.36	259.22	3,821.2	-193.9	-1,018.3	1,036.6	3.00	-3.00	0.00

ConocoPhillips or its affiliates

Planning Report

Database: EDM Central Planning
 Company: ConocoPhillips SJB
 Project: San Juan Basin - New Mexico Central Wells
 Site: San Juan 30 Wells
 Well: San Juan 30-5 #86M
 Wellbore: SJ 30-5 #86M
 Design: Plan #1

Local Co-ordinate Reference: Well San Juan 30-5 #86M
 TVD Reference: WELL @ 7159.0ft (Original Well Elev)
 MD Reference: WELL @ 7159.0ft (Original Well Elev)
 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)	
4,078.8	0.00	0.00	3,900.0	-194.2	-1,019.9	1,038.2	3.00	-3.00	127.93	
SJ 30-5 Unit 86M Pre-ICP										
4,100.0	0.00	0.00	3,921.2	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00	
4,200.0	0.00	0.00	4,021.2	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00	
4,213.8	0.00	0.00	4,035.0	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00	
Pictured Cliffs										
4,300.0	0.00	0.00	4,121.2	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00	
4,355.8	0.00	0.00	4,177.0	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00	
Lewis										
4,400.0	0.00	0.00	4,221.2	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00	
4,455.8	0.00	0.00	4,277.0	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00	
Intermediate - SJ 30-5 Unit 86M ICP										
4,500.0	0.00	0.00	4,321.2	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00	
4,600.0	0.00	0.00	4,421.2	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00	
4,700.0	0.00	0.00	4,521.2	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00	
4,800.0	0.00	0.00	4,621.2	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00	
4,900.0	0.00	0.00	4,721.2	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00	
5,000.0	0.00	0.00	4,821.2	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00	
5,027.8	0.00	0.00	4,849.0	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00	
Huerfano Bentonite										
5,100.0	0.00	0.00	4,921.2	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00	
5,200.0	0.00	0.00	5,021.2	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00	
5,300.0	0.00	0.00	5,121.2	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00	
5,313.8	0.00	0.00	5,135.0	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00	
Chacra										
5,400.0	0.00	0.00	5,221.2	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00	
5,500.0	0.00	0.00	5,321.2	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00	
5,600.0	0.00	0.00	5,421.2	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00	
5,700.0	0.00	0.00	5,521.2	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00	
5,800.0	0.00	0.00	5,621.2	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00	
5,900.0	0.00	0.00	5,721.2	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00	
6,000.0	0.00	0.00	5,821.2	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00	
6,100.0	0.00	0.00	5,921.2	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00	
6,195.8	0.00	0.00	6,017.0	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00	
Massive Cliff House										
6,200.0	0.00	0.00	6,021.2	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00	
6,219.8	0.00	0.00	6,041.0	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00	
Menefee										
6,300.0	0.00	0.00	6,121.2	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00	
6,400.0	0.00	0.00	6,221.2	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00	
6,429.8	0.00	0.00	6,251.0	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00	
Pt. Lookout										
6,500.0	0.00	0.00	6,321.2	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00	
6,600.0	0.00	0.00	6,421.2	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00	
6,700.0	0.00	0.00	6,521.2	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00	
6,800.0	0.00	0.00	6,621.2	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00	
6,860.8	0.00	0.00	6,682.0	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00	
Mancos Shale										
6,900.0	0.00	0.00	6,721.2	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00	
7,000.0	0.00	0.00	6,821.2	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00	
7,100.0	0.00	0.00	6,921.2	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00	
7,200.0	0.00	0.00	7,021.2	-194.2	-1,019.9	1,038.2	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 Central Wells
 Site: San Juan 30 Wells
 Well: San Juan 30-5 #86M
 Wellbore: SJ 30-5 #86M
 Design: Plan #1

Local Co-ordinate Reference: Well San Juan 30-5 #86M
 TVD Reference: WELL @ 7159.0ft (Original Well Elev)
 MD Reference: WELL @ 7159.0ft (Original Well Elev)
 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)
7,300.0	0.00	0.00	7,121.2	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00
7,400.0	0.00	0.00	7,221.2	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00
7,500.0	0.00	0.00	7,321.2	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00
7,600.0	0.00	0.00	7,421.2	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00
7,684.8	0.00	0.00	7,506.0	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00
Gallup									
7,700.0	0.00	0.00	7,521.2	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00
7,800.0	0.00	0.00	7,621.2	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00
7,900.0	0.00	0.00	7,721.2	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00
8,000.0	0.00	0.00	7,821.2	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00
8,100.0	0.00	0.00	7,921.2	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00
8,200.0	0.00	0.00	8,021.2	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00
8,300.0	0.00	0.00	8,121.2	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00
8,400.0	0.00	0.00	8,221.2	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00
8,419.8	0.00	0.00	8,241.0	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00
Greenhorn									
8,469.8	0.00	0.00	8,291.0	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00
Graneros									
8,500.0	0.00	0.00	8,321.2	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00
8,573.8	0.00	0.00	8,395.0	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00
Two Wells									
8,584.8	0.00	0.00	8,406.0	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00
Paguete									
8,595.8	0.00	0.00	8,417.0	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00
Upper Cubero									
8,600.0	0.00	0.00	8,421.2	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00
8,629.8	0.00	0.00	8,451.0	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00
Lower Cubero									
8,685.8	0.00	0.00	8,507.0	-194.2	-1,019.9	1,038.2	0.00	0.00	0.00
Oak Canyon - Production - SJ 30-5 Unit 86M 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 Unit 86M PCP	- plan hits target center	0.00	0.00	8,507.0	-194.2	-1,019.9	2,100,192.41	185,508.86	36° 46' 1.380 N	107° 19' 25.326 W
- Point										
SJ 30-5 Unit 86M Pre-IC	- plan hits target center	0.00	0.00	3,900.0	-194.2	-1,019.9	2,100,192.46	185,508.88	36° 46' 1.380 N	107° 19' 25.326 W
- Point										
SJ 30-5 Unit 86M ICP	- plan hits target center	0.00	0.00	4,277.0	-194.2	-1,019.9	2,100,192.41	185,508.86	36° 46' 1.380 N	107° 19' 25.326 W
- Point										

ConocoPhillips or its affiliates

Planning Report

Database: EDM Central Planning
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 Project: San Juan Basin - New Mexico Central Wells
 Site: San Juan 30 Wells
 Well: San Juan 30-5 #86M
 Wellbore: SJ 30-5 #86M
 Design: Plan #1

Local Co-ordinate Reference: Well San Juan 30-5 #86M
 TVD Reference: WELL @ 7159 0ft (Original Well Elev)
 MD Reference: WELL @ 7159 0ft (Original Well Elev)
 North Reference: True
 Survey Calculation Method: Minimum Curvature

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
230.0	230.0	Surface	9-5/8	12-1/4
8,685.8	8,507.0	Production	4-1/2	6-1/4
4,455.8	4,277.0	Intermediate	7	8-3/4

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
8,469.8	8,291.0	Graneros		0.00	
6,429.8	6,251.0	Pt. Lookout		0.00	
2,110.2	2,039.0	Nacimiento		0.00	
6,195.8	6,017.0	Massive Cliff House		0.00	
8,573.8	8,395.0	Two Wells		0.00	
5,313.8	5,135.0	Chacra		0.00	
7,684.8	7,506.0	Gallup		0.00	
8,685.8	8,507.0	Oak Canyon		0.00	
6,219.8	6,041.0	Menefee		0.00	
6,860.8	6,682.0	Mancos Shale		0.00	
8,584.8	8,406.0	Paguate		0.00	
4,355.8	4,177.0	Lewis		0.00	
8,595.8	8,417.0	Upper Cubero		0.00	
3,400.6	3,236.0	Ojo Alamo		0.00	
8,419.8	8,241.0	Greenhorn		0.00	
3,532.4	3,361.0	Kirtland		0.00	
3,623.5	3,449.0	Fruitland		0.00	
5,027.8	4,849.0	Huerfano Bentonite		0.00	
8,629.8	8,451.0	Lower Cubero		0.00	
4,213.8	4,035.0	Pictured Cliffs		0.00	

REFERENCE INFORMATION

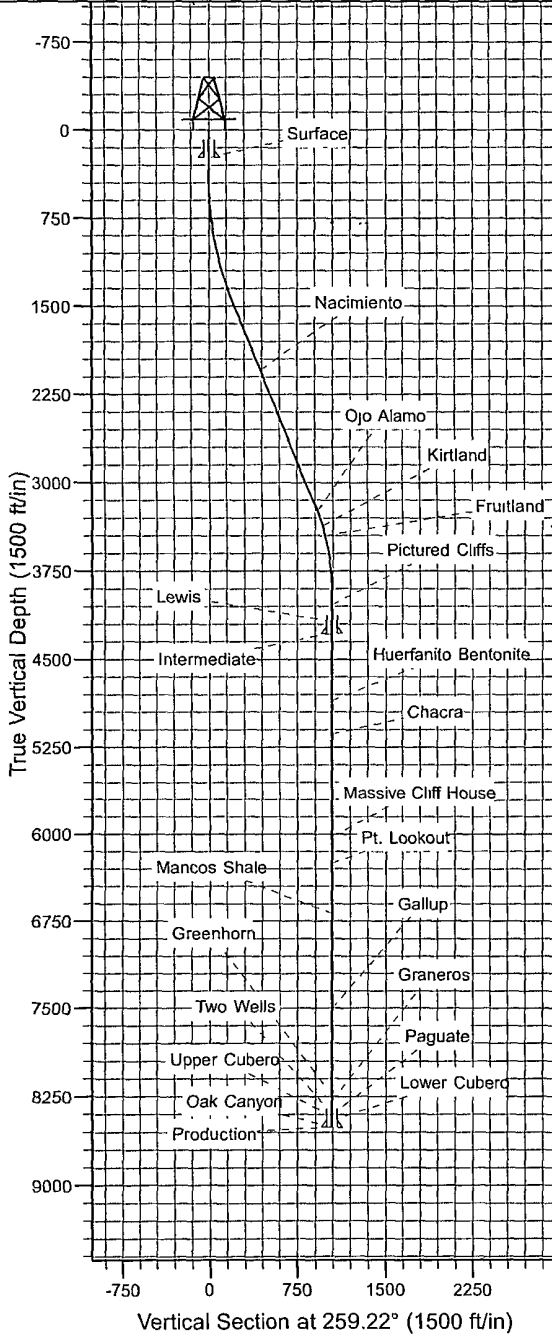
WELL @ 7159.0ft (Original Well Elev)
Ground Elevation 7144.0
Reference Lat: 36° 46' 3.300 N
Reference Long: 107° 19' 12.792 W

Project: San Juan Basin - New Mexico Central V
Site: San Juan 30 Wells
Well: San Juan 30-5 #86M
Wellbore: SJ 30-5 #86M
Design: Plan #1



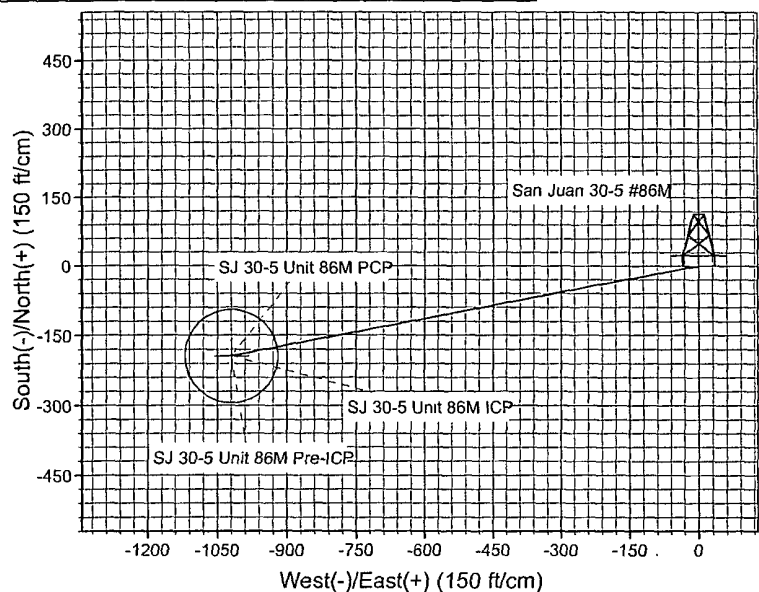
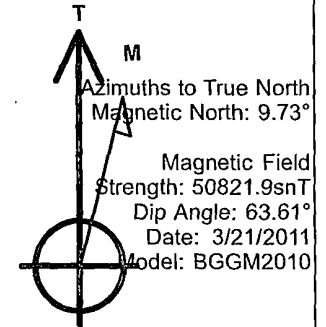
SECTION DETAILS

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	400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.0	
3	1498.7	21.97	259.22	1471.9	-38.9	-204.4	2.00	259.22	208.1	
4	3346.3	21.97	259.22	3185.4	-168.2	-883.6	0.00	0.00	899.5	
5	4078.8	0.00	0.00	3900.0	-194.2	-1019.9	3.00	180.00	1038.2	SJ 30-5 Unit 86M Pre-ICP
6	4455.8	0.00	0.00	4277.0	-194.2	-1019.9	0.00	0.00	1038.2	SJ 30-5 Unit 86M ICP
7	8685.8	0.00	0.00	8507.0	-194.2	-1019.9	0.00	0.00	1038.2	SJ 30-5 Unit 86M PCP



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
2039.0	2110.2	Nacimiento
3236.0	3400.6	Ojo Alamo
3361.0	3532.4	Kirtland
3449.0	3623.5	Fruitland
4035.0	4213.8	Pictured Cliffs
4177.0	4355.8	Lewis
4849.0	5027.8	Huerfano Bentonite
5135.0	5313.8	Chacra
6017.0	6195.8	Massive Cliff House
6041.0	6219.8	Menefee
6251.0	6429.8	Pt. Lookout
6682.0	6860.8	Mancos Shale
7506.0	7684.8	Gallup
8241.0	8419.8	Greenhorn
8291.0	8469.8	Graneros
8395.0	8573.8	Two Wells
8406.0	8584.8	Pagate
8417.0	8595.8	Upper Cubero
8451.0	8629.8	Lower Cubero
8507.0	8685.8	Oak Canyon



Directions from the Post Office
in Blanco, NM
to
CONOCOPHILLIPS COMPANY
SAN JUAN 30-5 UNIT 86M
2070' FSL & 910' FEL,
Section 35, T30N, R5W, N.M.P.M., Rio Arriba County,
New Mexico
Latitude: 36° 46' 03.33" N
Longitude: 107° 19' 14.95" 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,
turn right (southeasterly) for 0.8 miles to y-intersection,
stay left (southeasterly) for 2.9 miles to y-intersection,
stay right (southerly) 0.7 miles to Espinosa Ranch,
continue (southeasterly) past Espinosa Ranch 2.1 miles,
stay right (southeasterly) 0.5 miles to top of hill,
turn left (southerly) 0.6 miles to the newly staked location,
on right side of road.