

RECEIVED

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APR 19 2011

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Farmington Field Office
Bureau of Land Management

1a. Type of Work DRILL	5. Lease Number NM-012332 Unit Reporting Number
1b. Type of Well GAS	6. If Indian, All. or Tribe OIL CONS. DIV.
2. Operator ConocoPhillips Company	7. Unit Agreement Name DIST. 3 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 86N
4. Location of Well Surface: Unit I (NESE), 2000' FSL & 915' FEL BHL: Unit P (SESE), 710' FSL & 710' FEL Surface: Latitude: 36.767395° N (NAD83) Longitude: 107.320843° W BHL: Latitude: 36.763853° N (NAD83) Longitude: 107.320136° W	10. Field, Pool, Wildcat Blanco MV / Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 35, T30N, R5W API # 30-039-31055
14. Distance in Miles from Nearest Town 50.8 miles from Blanco, NM	12. County Rio Arriba
15. Distance from Proposed Location to Nearest Property or Lease Line 710'	13. State NM
16. Acres in Lease 1280.00 acres	17. Acres Assigned to Well MV 320.00 acres E/2 DK 320.00 acres S/2
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 2334' from San Juan 30-5 Unit 4 (MV)	
19. Proposed Depth 8502' 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.) 7147' GL	22. Approx. Date Work will Start DRLING OPERATIONS AUTHORIZED ARE 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)	April 19, 2011 Date

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

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

NOTIFY AZTEC OCD 24 HRS.

NMOCD

PRIOR TO CASING & CEMENT

JAN 13 2012

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

Hold C104 for Asdrilled C102 & D12 Survey

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

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

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

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

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

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

RECEIVED

APR 19 2011

Form C-102
Revised October 12, 2005

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

Farmington Field Office
Bureau of Land Management

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039 - 31055	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 86N
⁷ GRID No. 217817	⁸ Operator Name CONOCOPHILLIPS COMPANY	⁹ Elevation 7147'

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
I	35	30-N	5-W		2000	SOUTH	915	EAST	RIO ARriba

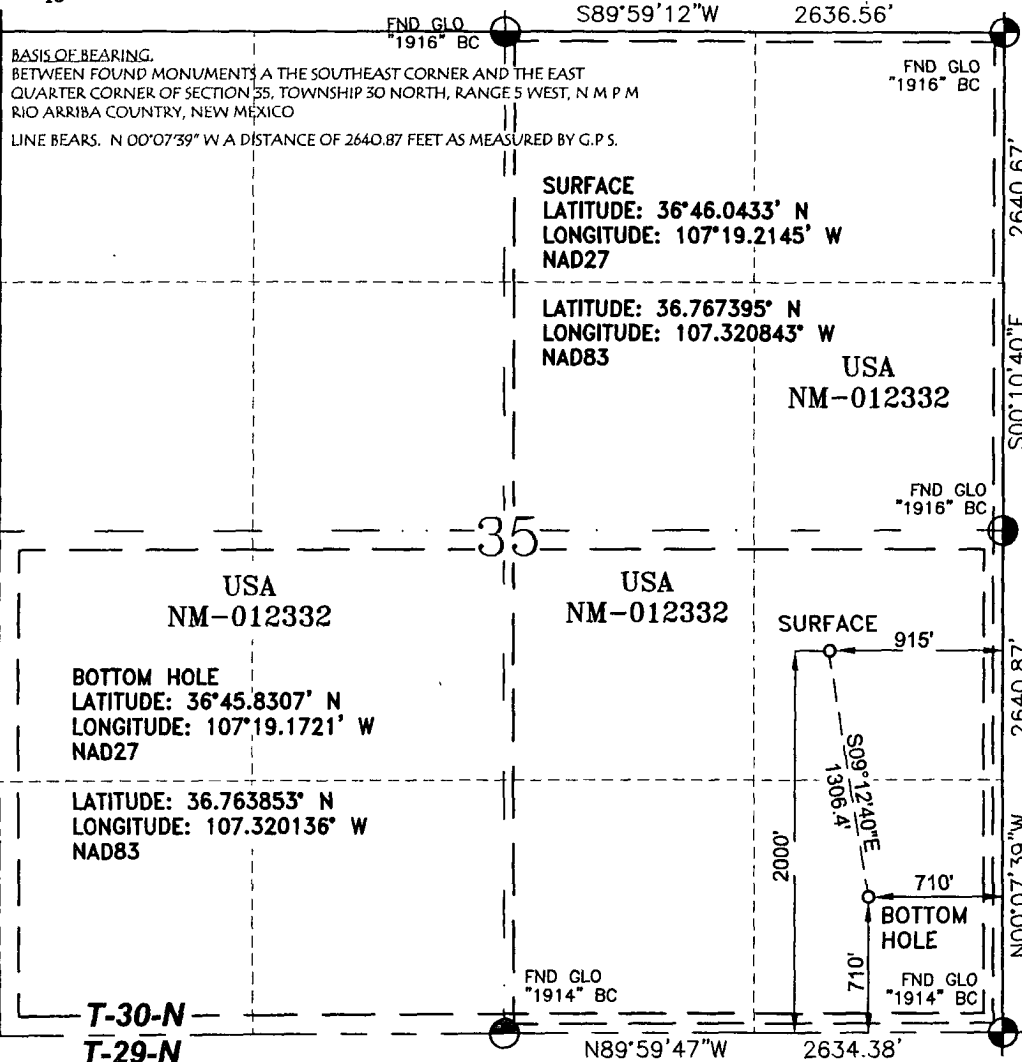
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	35	30-N	5-W		710	SOUTH	710	EAST	RIO ARriba

¹² Dedicated Acres DK 320.00 ACRES S/2 MV 320.00 ACRES 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

18



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.

Ethel Tally
Signature
Ethel Tally
Printed Name
3/23/10

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 Surveyor
GLEN W. RUSSELL
15703
LICENSED PROFESSIONAL SURVEYOR
GLEN W. RUSSELL
Certificate Number 15703

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

RECEIVED**NOV 30 2011**

Sundry Notices and Reports on Wells

Farmington Field Office
Bureau of Land Management

1. Type of Well
GAS

5. Lease Number

NM-012332

2. Name of Operator

6. If Indian, All. or
Tribe Name**ConocoPhillips**7. Unit Agreement Name
San Juan 30-5 Unit

3. Address & Phone No. of Operator

8. Well Name & Number
San Juan 30-5 Unit 86N

PO Box 4289, Farmington, NM 87499 (505) 326-9700

9. API Well No.

30-039- 31055

4. Location of Well, Footage, Sec., T, R, M

10. Field and Pool
Blanco MV/Basin DK/
Basin MancosSurface: Unit I (NESE), 2000' FSL & 915' FEL, Section 35, T30N, R5W, NMPM
BHL : Unit P (SESE), 710' FSL & 710' FEL, Section 35, T30N, R5W, NMPM11. County and State
Rio Arriba, NM**12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA**

Type of Submission

Type of Action

☒ Notice of Intent☐ Abandonment☐ Change of Plans☒ Other - ☐ Add Mancos☐ Subsequent Report☐ Recompletion☐ New Construction☐ Plugging☐ Non-Routine Fracturing☐ Casing Repair☐ Water Shut off☐ Final Abandonment☐ Altering Casing☐ Conversion to Injection**RCVD DEC 20 '11****OIL CONS. DIV.****DIST. 3****13. Describe Proposed or Completed Operations**

ConocoPhillips would also like to complete the Basin Mancos formations and trimingle production on this well (DK/MV/Mancos). Attached is a new plat that includes the Basin Mancos and C107A will be submitted and approval received before the well is commingled.

CONDITIONS OF APPROVAL

Adhere to previously issued stipulations.

14. I hereby certify that the foregoing is true and correct.Signed Arleen Kellywood Arleen Kellywood Title Staff Regulatory Technician Date 11/28/11

(This space for Federal or State Office use)

APPROVED BY [Signature] Title AFMDate 12/16/11

CONDITION OF APPROVAL, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

**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**

NMOCD

jc

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Form C-102
Revised October 12, 2005

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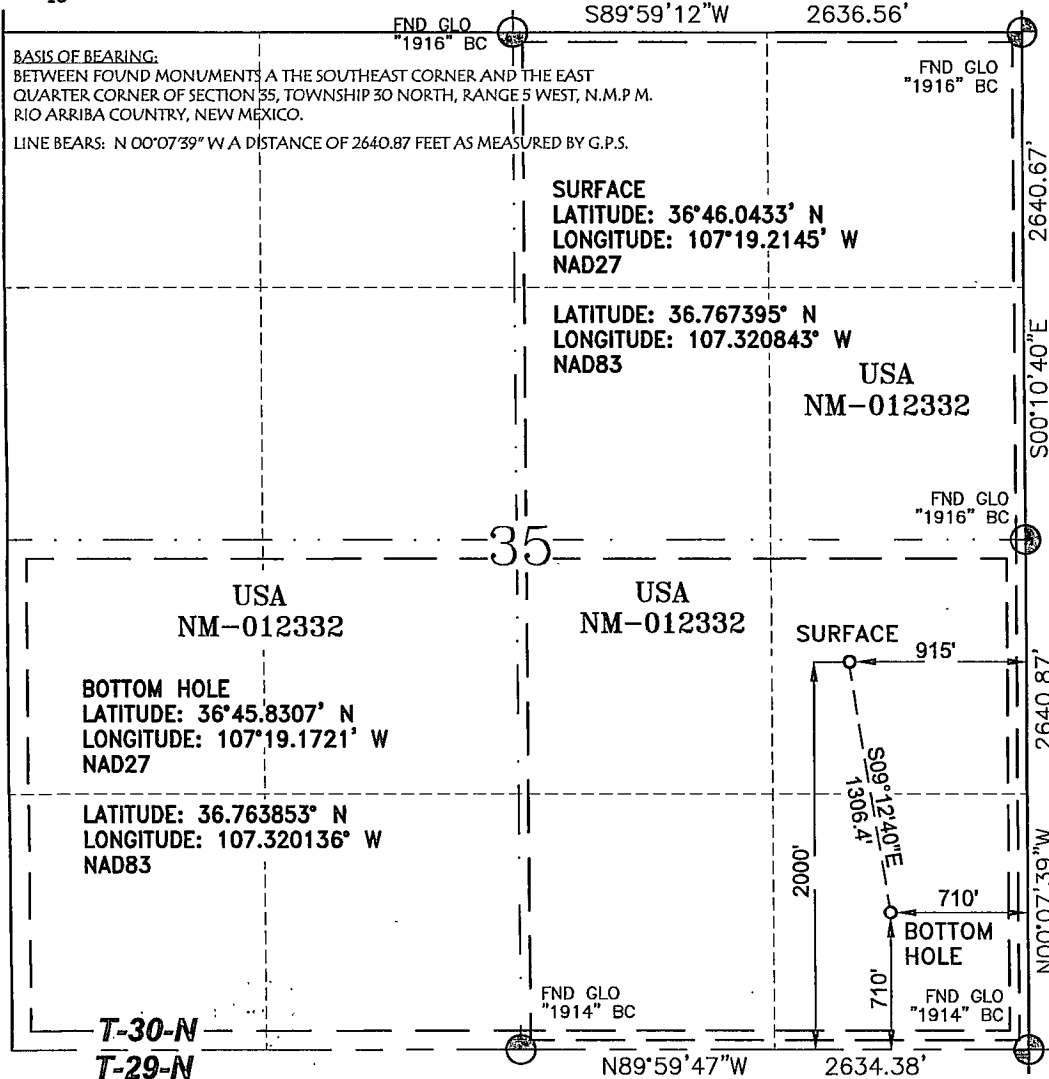
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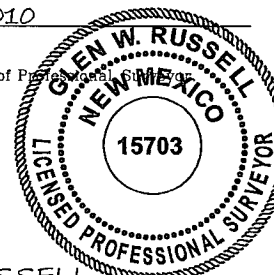
Arleen Kellywood 11/28/11
Signature
Arleen Kellywood
Printed Name

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MARCH 5, 2010
Date of Survey

Signature and Seal of Professional Surveyor



GLEN W. RUSSELL
Certificate Number

15703

PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 30-5 UNIT 86N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.8505		AFE \$: 1,695,095.62	
Field Name: SAN JUAN		Rig: Aztec Rig 673		State: NM	County: RIO ARRIBA
Geologist:		Phone:		Geophysicist:	
Geoscientist:		Phone:		Prod. Engineer:	
Res. Engineer:		Phone:		Proj. Field Lead:	
Primary Objective (Zones):					
Zone	Zone Name				
FRR	BASIN DAKOTA (PRORATED GAS)				
RON	BLANCO MESAVERDE (PRORATED GAS)				
Location: Surface Datum Code: NAD 27 Directional					
Latitude: 36.767388	Longitude: -107.320242	X:	Y:	Section: 35	Range: 005W
Footage X: 915 FEL	Footage Y: 2000 FSL	Elevation: 7147	(FT)	Township: 030N	
Tolerance:					
Location: Bottom Hole Datum Code: NAD 27 Directional					
Latitude: 36.763846	Longitude: -107.319535	X:	Y:	Section: 35	Range: 005W
Footage X: 710 FEL	Footage Y: 710 FSL	Elevation:	(FT)	Township: 030N	
Tolerance:					
Location Type: Restricted		Start Date (Est.): 1/1/2012		Completion Date:	
				Date In Operation:	
Formation Data: Assume KB = 7162 Units = FT					
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)
Surface Casing	200	6962		☐	
					12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.
NACIMIENTO	2031	5131		☐	
OJO ALAMO	3242	3920		☐	
KIRTLAND	3372	3790		☐	
FRUITLAND	3454	3708		☐	630 Possible Gas
PICTURED CLIFFS	4042	3120		☐	1275
LEWIS	4180	2982		☐	
Intermediate Casing	4280	2882		☐	
					8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 1017 cuft. Circulate cement to surface.
HUERFANITO BENTONITE	4846	2316		☐	
CHACRA	5137	2025		☐	
MASSIVE CLIFF HOUSE	6020	1142		☐	775 Gas
MENEFEE	6046	1116		☐	
POINT LOOKOUT	6240	922		☐	
MANCOS	6678	484		☐	
UPPER GALLUP	7497	-335		☐	
GREENHORN	8233	-1071		☐	
GRANEROS	8285	-1123		☐	
TWO WELLS	8384	-1222		☐	3400 Gas
PAGUATE	8407	-1245		☐	CBRO appears to be dominant contributor
UPPER CUBERO	8412	-1250		☐	77M wet in CBRO but need to complete to upper CBRL sand

PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 30-5 UNIT 86N

DEVELOPMENT

LOWER CUBERO	8446	-1284	☐	Perf only upper sand in CBRL - at edge of prod with area issues
OAK CANYON	8502	-1340	☐	TD at top of OKCN - bottom perf 40' off TD
Total Depth	8502	-1340	☐	6-1/4" hole, 4-1/2" 11.6 ppf, L-80, LTC casing. Cement w/ 575 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
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ConocoPhillips SJBU

San Juan Basin - New Mexico Wells

San Juan 30 Wells

SJ 30-5 86N

SJ 30-5 86N

Plan: Plan #1

Standard Planning Report

12 November, 2009

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 30-5 86N
Company:	ConocoPhillips SJBU	TVD Reference:	WELL @ 7162.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	WELL @ 7162.0ft (Original Well Elev)
Site:	San Juan 30 Wells	North Reference:	True
Well:	SJ 30-5 86N	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 30-5 86N		
Design:	Plan #1		

Project:	San Juan Basin - New Mexico Wells, T-28-N; R-7-W, Section 19, Directional "S" Curve long step out		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Ground 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:	2,100,610.50 ft
From:	Lat/Long	Easting:	654,846.83 ft
Position Uncertainty:	15.0 ft	Slot Radius:	"
		Latitude:	36° 46' 18.382 N
		Longitude:	107° 18' 16.710 W
		Grid Convergence:	0 32 °

Well:	SJ 30-5 86N		
Well Position	+N/-S	0 0 ft	Northing:
	+E/-W	0 0 ft	Easting:
Position Uncertainty	15 0 ft	Wellhead Elevation:	ft
		Latitude:	36° 46' 2 266 N
		Longitude:	107° 19' 12 810 W
		Ground Level:	7,147 0 ft

Wellbore:	SJ 30-5 86N		
Magnetics	Model Name	Sample Date	Declination
	BGGM2009	11/12/2009	9 90
			Dip Angle
			63.64
			Field Strength
			50,980

Design:	Plan #1		
Audit Notes:			
Version:	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
			170 87

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)	(°)	
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	
1,476.8	23.14	170.87	1,445.6	-227.5	36.5	2.00	2.00	0.00	170.87	
3,743.0	23.14	170.87	3,529.6	-1,106.6	177.8	0.00	0.00	0.00	0.00	
4,514.2	0.00	0.00	4,280.0	-1,258.3	202.1	3.00	-3.00	0.00	180.00	San Juan 30-5 86N IC
8,736.2	0.00	0.00	8,502.0	-1,258.3	202.1	0.00	0.00	0.00	0.00	San Juan 30-5 86N P

ConocoPhillips or its affiliates

Planning Report

Database:	EDM: Central Planning	Local Co-ordinate Reference:	Well SJ-30-5 86N
Company:	ConocoPhillips SJBU	TVD Reference:	WELL @ 7,162.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	WELL @ 7,162.0ft (Original Well Elev)
Site:	San Juan 30 Wells	North Reference:	True
Well:	SJ-30-5 86N	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ-30-5 86N		
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	170.87	400.0	-1.1	0.2	1.1	2.00	2.00	0.00
500.1	3.60	170.87	500.0	-5.6	0.9	5.7	2.00	2.00	0.00
600.4	5.61	170.87	600.0	-13.5	2.2	13.7	2.00	2.00	0.00
701.1	7.62	170.87	700.0	-25.0	4.0	25.3	2.00	2.00	0.00
802.3	9.65	170.87	800.0	-40.0	6.4	40.5	2.00	2.00	0.00
904.0	11.68	170.87	900.0	-58.6	9.4	59.3	2.00	2.00	0.00
1,006.6	13.73	170.87	1,000.0	-80.8	13.0	81.9	2.00	2.00	0.00
1,110.0	15.80	170.87	1,100.0	-106.9	17.2	108.2	2.00	2.00	0.00
1,214.5	17.89	170.87	1,200.0	-136.8	22.0	138.5	2.00	2.00	0.00
1,320.2	20.00	170.87	1,300.0	-170.6	27.4	172.8	2.00	2.00	0.00
1,427.4	22.15	170.87	1,400.0	-208.7	33.5	211.4	2.00	2.00	0.00
1,476.8	23.14	170.87	1,445.6	-227.5	36.5	230.4	2.00	2.00	0.00
1,535.9	23.14	170.87	1,500.0	-250.4	40.2	253.6	0.00	0.00	0.00
1,644.7	23.14	170.87	1,600.0	-292.6	47.0	296.4	0.00	0.00	0.00
1,753.4	23.14	170.87	1,700.0	-334.8	53.8	339.1	0.00	0.00	0.00
1,862.2	23.14	170.87	1,800.0	-377.0	60.6	381.8	0.00	0.00	0.00
1,970.9	23.14	170.87	1,900.0	-419.2	67.3	424.5	0.00	0.00	0.00
2,079.7	23.14	170.87	2,000.0	-461.4	74.1	467.3	0.00	0.00	0.00
2,113.4	23.14	170.87	2,031.0	-474.4	76.2	480.5	0.00	0.00	0.00
Nacimiento									
2,188.4	23.14	170.87	2,100.0	-503.5	80.9	510.0	0.00	0.00	0.00
2,297.2	23.14	170.87	2,200.0	-545.7	87.7	552.7	0.00	0.00	0.00
2,405.9	23.14	170.87	2,300.0	-587.9	94.4	595.5	0.00	0.00	0.00
2,514.6	23.14	170.87	2,400.0	-630.1	101.2	638.2	0.00	0.00	0.00
2,623.4	23.14	170.87	2,500.0	-672.3	108.0	680.9	0.00	0.00	0.00
2,732.1	23.14	170.87	2,600.0	-714.5	114.8	723.6	0.00	0.00	0.00
2,840.9	23.14	170.87	2,700.0	-756.7	121.5	766.4	0.00	0.00	0.00
2,949.6	23.14	170.87	2,800.0	-798.8	128.3	809.1	0.00	0.00	0.00
3,058.4	23.14	170.87	2,900.0	-841.0	135.1	851.8	0.00	0.00	0.00
3,167.1	23.14	170.87	3,000.0	-883.2	141.9	894.5	0.00	0.00	0.00
3,275.9	23.14	170.87	3,100.0	-925.4	148.7	937.3	0.00	0.00	0.00
3,384.6	23.14	170.87	3,200.0	-967.6	155.4	980.0	0.00	0.00	0.00
3,430.3	23.14	170.87	3,242.0	-985.3	158.3	997.9	0.00	0.00	0.00
Ojo Alamo									
3,493.4	23.14	170.87	3,300.0	-1,009.8	162.2	1,022.7	0.00	0.00	0.00
3,571.7	23.14	170.87	3,372.0	-1,040.2	167.1	1,053.5	0.00	0.00	0.00
Kirtland									
3,602.1	23.14	170.87	3,400.0	-1,052.0	169.0	1,065.4	0.00	0.00	0.00
3,660.8	23.14	170.87	3,454.0	-1,074.7	172.6	1,088.5	0.00	0.00	0.00
Fruitland									
3,710.8	23.14	170.87	3,500.0	-1,094.1	175.8	1,108.2	0.00	0.00	0.00
3,743.0	23.14	170.87	3,529.6	-1,106.6	177.8	1,120.8	0.00	0.00	0.00
3,819.0	20.86	170.87	3,600.0	-1,134.7	182.3	1,149.3	3.00	-3.00	0.00
3,924.9	17.68	170.87	3,700.0	-1,169.2	187.8	1,184.2	3.00	-3.00	0.00
4,029.0	14.56	170.87	3,800.0	-1,197.8	192.4	1,213.1	3.00	-3.00	0.00
4,131.7	11.48	170.87	3,900.0	-1,220.6	196.1	1,236.2	3.00	-3.00	0.00
4,233.2	8.43	170.87	4,000.0	-1,237.9	198.9	1,253.8	3.00	-3.00	0.00

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well: SJ 30-5 86N
Company:	ConocoPhillips SJBU	TVD Reference:	WELL @ 7162.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	WELL @ 7162.0ft (Original Well Elev)
Site:	San Juan 30 Wells	North Reference:	True
Well:	SJ 30-5 86N	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 30-5 86N		
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)
4,275.6	7.16	170.87	4,042.0	-1,243.6	199.8	1,259.5	3.00	-3.00	0.00
Pictured Cliffs									
4,334.0	5.41	170.87	4,100.0	-1,249.9	200.8	1,265.9	3.00	-3.00	0.00
4,414.2	3.00	170.87	4,180.0	-1,255.7	201.7	1,271.8	3.00	-3.00	0.00
Lewis									
4,434.2	2.40	170.87	4,200.0	-1,256.6	201.9	1,272.7	3.00	-3.00	0.00
4,514.2	0.00	0.00	4,280.0	-1,258.3	202.1	1,274.4	3.00	-3.00	0.00
Intermediate - San Juan 30-5 86N ICP									
4,534.2	0.00	0.00	4,300.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00
4,634.2	0.00	0.00	4,400.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00
4,734.2	0.00	0.00	4,500.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00
4,834.2	0.00	0.00	4,600.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00
4,934.2	0.00	0.00	4,700.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00
5,034.2	0.00	0.00	4,800.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00
5,080.2	0.00	0.00	4,846.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00
Huerf. Bent.									
5,134.2	0.00	0.00	4,900.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00
5,234.2	0.00	0.00	5,000.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00
5,334.2	0.00	0.00	5,100.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00
5,371.2	0.00	0.00	5,137.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00
Chacra									
5,434.2	0.00	0.00	5,200.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00
5,534.2	0.00	0.00	5,300.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00
5,634.2	0.00	0.00	5,400.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00
5,734.2	0.00	0.00	5,500.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00
5,834.2	0.00	0.00	5,600.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00
5,934.2	0.00	0.00	5,700.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00
6,034.2	0.00	0.00	5,800.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00
6,134.2	0.00	0.00	5,900.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00
6,234.2	0.00	0.00	6,000.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00
6,254.2	0.00	0.00	6,020.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00
Massive Cliffhouse									
6,280.2	0.00	0.00	6,046.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00
Menefee									
6,334.2	0.00	0.00	6,100.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00
6,434.2	0.00	0.00	6,200.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00
6,474.2	0.00	0.00	6,240.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00
Pt. Lookout									
6,534.2	0.00	0.00	6,300.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00
6,634.2	0.00	0.00	6,400.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00
6,734.2	0.00	0.00	6,500.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00
6,834.2	0.00	0.00	6,600.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00
6,912.2	0.00	0.00	6,678.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00
Mancos Shale									
6,934.2	0.00	0.00	6,700.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00
7,034.2	0.00	0.00	6,800.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00
7,134.2	0.00	0.00	6,900.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00
7,234.2	0.00	0.00	7,000.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00
7,334.2	0.00	0.00	7,100.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00
7,434.2	0.00	0.00	7,200.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00
7,534.2	0.00	0.00	7,300.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00
7,634.2	0.00	0.00	7,400.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 30-5 86N
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 7162.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	WELL @ 7162.0ft (Original Well Elev)
Site:	San Juan 30 Wells	North Reference:	True
Well:	SJ 30-5 86N	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 30-5 86N		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
7,731.2	0.00	0.00	7,497.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00
Upper Gallup									
7,734.2	0.00	0.00	7,500.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00
7,834.2	0.00	0.00	7,600.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00
7,934.2	0.00	0.00	7,700.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00
8,034.2	0.00	0.00	7,800.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00
8,134.2	0.00	0.00	7,900.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00
8,234.2	0.00	0.00	8,000.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00
8,334.2	0.00	0.00	8,100.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00
8,434.2	0.00	0.00	8,200.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00
8,467.2	0.00	0.00	8,233.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00
Greenhorn									
8,519.2	0.00	0.00	8,285.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00
Graneros									
8,534.2	0.00	0.00	8,300.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00
8,618.2	0.00	0.00	8,384.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00
Two Wells									
8,634.2	0.00	0.00	8,400.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00
8,641.2	0.00	0.00	8,407.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00
Paguate									
8,646.2	0.00	0.00	8,412.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00
Upper Cubero									
8,680.2	0.00	0.00	8,446.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00
Lower Cubero									
8,734.2	0.00	0.00	8,500.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00
8,736.2	0.00	0.00	8,502.0	-1,258.3	202.1	1,274.4	0.00	0.00	0.00
Oak Canyon - Production - San Juan 30-5 86N 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
San Juan 30-5 86N ICP		0.00	0.00	4,280.0	-1,258.3	202.1	2,097,698.82	650,500.24	36° 45' 49.824 N 107° 19' 10.326 W
- plan hits target center									
- Point									
San Juan 30-5 86N PCF		0.00	0.00	8,502.0	1,630.2	4,564.5	2,100,610.50	654,846.83	36° 46' 18.382 N 107° 18' 16.710 W
- plan misses target center by 5232.0ft at 8736.2ft MD (8502.0 TVD, -1258.3 N, 202.1 E)									
- 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	
4,514.2	4,280.0	Intermediate	7	8-3/4	
8,736.2	8,502.0	Production	4-1/2	6-1/4	

ConocoPhillips or its affiliates

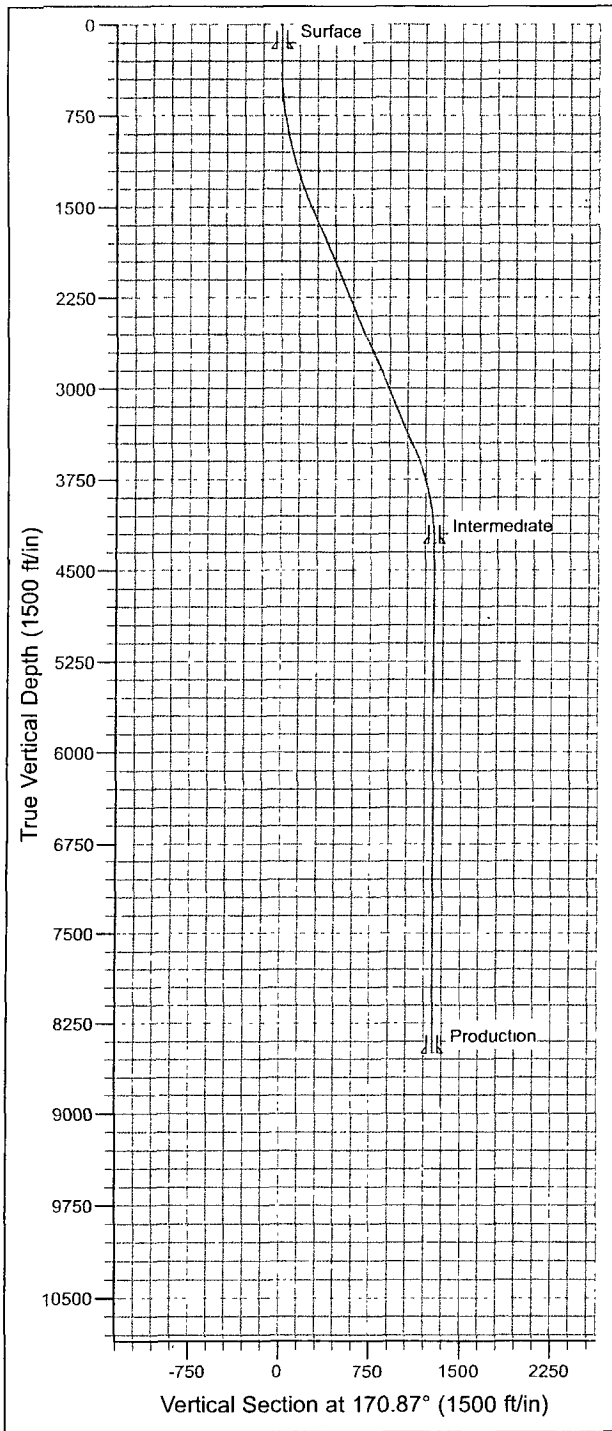
Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well: SJ 30-5 86N
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 7162.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	WELL @ 7162.0ft (Original Well Elev)
Site:	San Juan 30 Wells	North Reference:	True
Well:	SJ 30-5 86N	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 30-5 86N		
Design:	Plan #1		

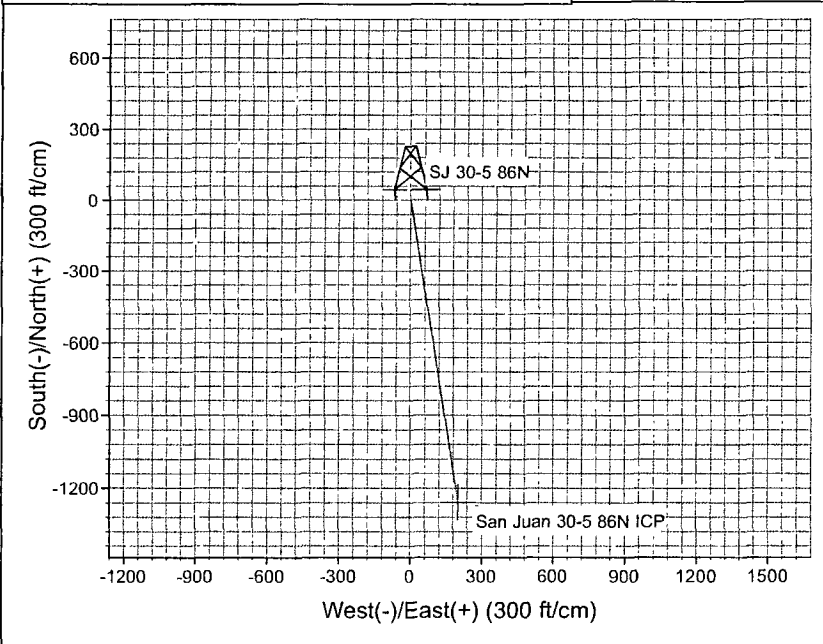
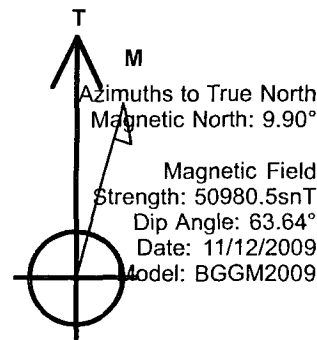
Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
6,912.2	6,678.0	Mancos Shale		0.00		
8,519.2	8,285.0	Graneros		0.00		
6,280.2	6,046.0	Menefee		0.00		
8,618.2	8,384.0	Two Wells		0.00		
2,113.4	2,031.0	Nacimiento		0.00		
6,474.2	6,240.0	Pt. Lookout		0.00		
8,736.2	8,502.0	Oak Canyon		0.00		
7,731.2	7,497.0	Upper Gallup		0.00		
8,467.2	8,233.0	Greenhorn		0.00		
6,254.2	6,020.0	Massive Cliffhouse		0.00		
5,371.2	5,137.0	Chacra		0.00		
3,660.8	3,454.0	Fruitland		0.00		
8,641.2	8,407.0	Paguate		0.00		
8,680.2	8,446.0	Lower Cubero		0.00		
3,430.3	3,242.0	Ojo Alamo		0.00		
4,275.6	4,042.0	Pictured Cliffs		0.00		
5,080.2	4,846.0	Huerf. Bent.		0.00		
8,646.2	8,412.0	Upper Cubero		0.00		
4,414.2	4,180.0	Lewis		0.00		
3,571.7	3,372.0	Kirtland		0.00		

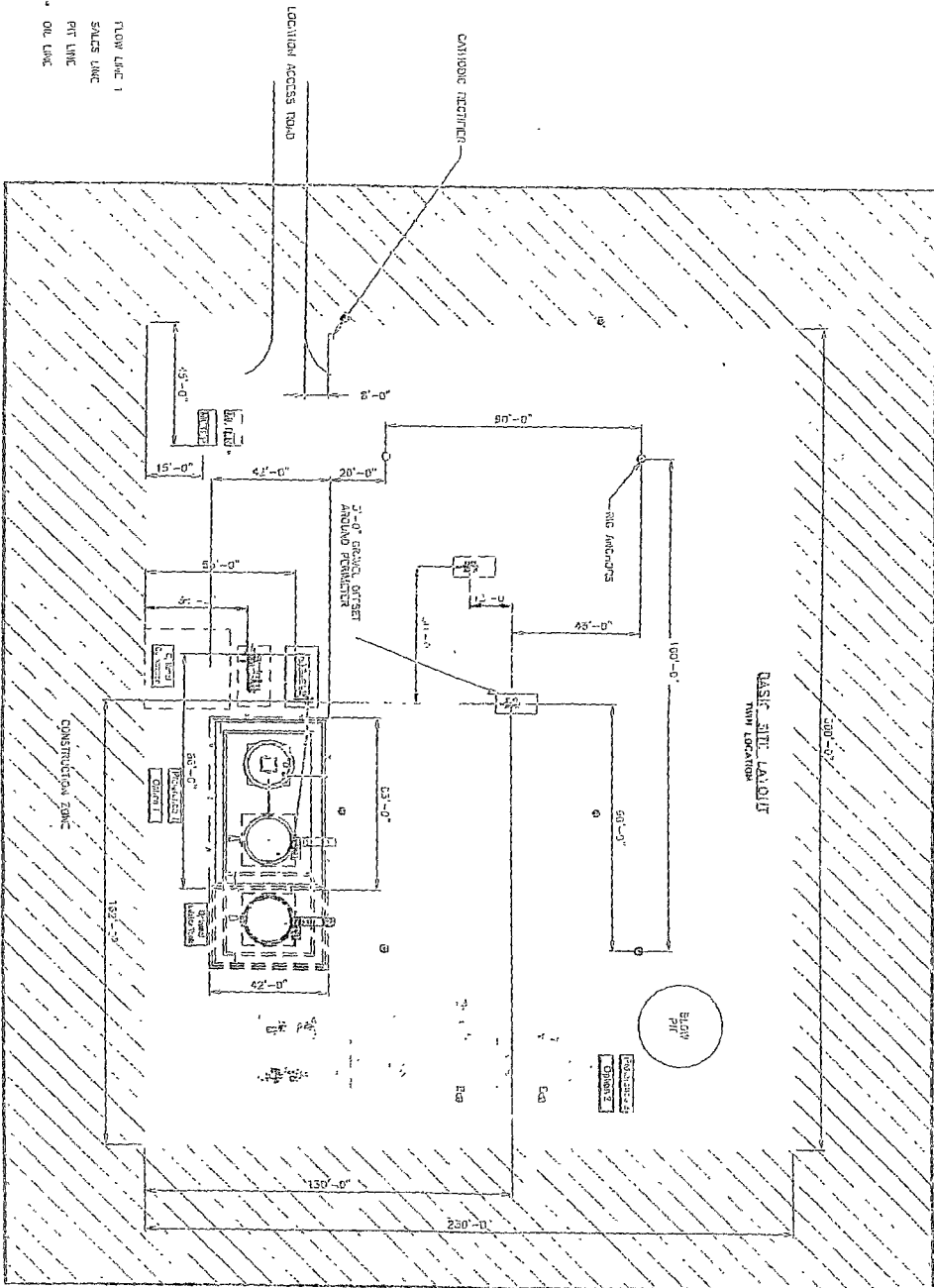
REFERENCE INFORMATION		Project: San Juan Basin - New Mexico Wells Site: San Juan 30 Wells Well: SJ 30-5 86N Wellbore: SJ 30-5 86N Design: Plan #1 
WELL @ 7162.0ft (Original Well Elev)		
Ground Elevation 7147.0		
Reference Lat: 36° 46' 2.266 N		
Reference Long: 107° 19' 12.810 W		

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	1476.8	23.14	170.87	1445.6	-227.5	36.5	2.00	170.87	230.4	
4	3743.0	23.14	170.87	3529.6	-1106.6	177.8	0.00	0.00	1120.8	
5	4514.2	0.00	0.00	4280.0	-1258.3	202.1	3.00	180.00	1274.4	San Juan 30-5 86N ICP
6	8736.2	0.00	0.00	8502.0	-1258.3	202.1	0.00	0.00	1274.4	San Juan 30-5 86N PCP



FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
2031.0	2113.4	Nacimiento
3242.0	3430.3	Ojo Alamo
3372.0	3571.7	Kirtland
3454.0	3660.8	Fruitland
4042.0	4275.6	Pictured Cliffs
4180.0	4414.2	Lewis
4846.0	5080.2	Huerf. Bent.
5137.0	5371.2	Chacra
6020.0	6254.2	Massive Cliffhouse
6046.0	6280.2	Menefee
6240.0	6474.2	Pt. Lookout
6678.0	6912.2	Mancos Shale
7497.0	7731.2	Upper Gallup
8233.0	8467.2	Greenhorn
8285.0	8519.2	Graneros
8384.0	8618.2	Two Wells
8407.0	8641.2	Paguate
8412.0	8646.2	Upper Cubero
8446.0	8680.2	Lower Cubero
8502.0	8736.2	Oak Canyon





SEE SHEET 3.1 FOR PUMP HOUSE
ALL DIMENSIONS ARE TO BE CHECKED & NOT TO BE TOP

SHEET 3 OF 5

GENERAL INFORMATION				PROJECT INFORMATION				REVISIONS			
PROJECT NO.	001	DATE	01/01/2020	PROJECT NAME	SAN JUAN BUSINESS UNIT			REVISION NO.	001	DATE	01/01/2020
CLIENT	CONOCO PHILLIPS	DESIGNER	CONOCO PHILLIPS	PROJECT LOCATION	SAN JUAN BUSINESS UNIT			REVISION DESCRIPTION			
DESIGNER	CONOCO PHILLIPS	ENGINEER	CONOCO PHILLIPS	PROJECT LOCATION	SAN JUAN BUSINESS UNIT			REVISION DESCRIPTION			
DATE	01/01/2020	SCALE	1" = 10'	PROJECT LOCATION	SAN JUAN BUSINESS UNIT			REVISION DESCRIPTION			
PROJECT NO.	001	DATE	01/01/2020	PROJECT NAME	SAN JUAN BUSINESS UNIT			REVISION NO.	001	DATE	01/01/2020
CLIENT	CONOCO PHILLIPS	DESIGNER	CONOCO PHILLIPS	PROJECT LOCATION	SAN JUAN BUSINESS UNIT			REVISION DESCRIPTION			
DESIGNER	CONOCO PHILLIPS	ENGINEER	CONOCO PHILLIPS	PROJECT LOCATION	SAN JUAN BUSINESS UNIT			REVISION DESCRIPTION			
DATE	01/01/2020	SCALE	1" = 10'	PROJECT LOCATION	SAN JUAN BUSINESS UNIT			REVISION DESCRIPTION			

Directions from the Post Office
in Blanco, NM
to
CONOCOPHILLIPS COMPANY
SAN JUAN 30-5 UNIT 86N
2000' FSL & 915' FEL,
Section 35, T30N, R5W, N.M.P.M., Rio Arriba County,
New Mexico
Latitude: 36° 46' 02.62" N
Longitude: 107° 19' 15.04" 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 (south) side of road.