

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK FEB 25 2011

1a. Type of Work
DRILL

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

5. Lease Number
USA SF-078738
Farmington Field Office
Bureau of Land Management
Unit Reporting Number

1b. Type of Well
GAS

6. If Indian, All. or Tribe

2. Operator
ConocoPhillips
Company

7. Unit Agreement Name
San Juan 30-5 Unit

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

8. Farm or Lease Name
San Juan 30-5 Unit

9. Well Number
82M

4. Location of Well
Surf: Unit H (SENE), 2018' ENL & 128' FEL
BH: Unit E (SENW), 1930' ENL & 1260' FEL
Surf: Latitude: 36.785314° N (NAD83)
Longitude: 107.318133° W
BH: Latitude: 36.785559° N (NAD83)
Longitude: 107.313393° W

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

11. Sec., Twn, Rge, Mer. (NMPM)
SH: Sec. 26, T30N, R5W
BH: Sec. 25, T30N, R5W
API # 30-039-31031

14. Distance in Miles from Nearest Town
59.9 Miles from Bloomfield, NM

12. County
Rio Arriba

13. State
NM

15. Distance from Proposed Location to Nearest Property or Lease Line
128'

16. Acres in Lease
2,219.760 Acres

17. Acres Assigned to Well
320 Acres W/2 (MV)
269.72 Acres N/2 (DK)

18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease
1280.5' from COPC San Juan 30-5 Unit #32 (MV)

19. Proposed Depth
8418

20. Rotary or Cable Tools
'Rotary

21. Elevations (DF, FT, GR, Etc.)
7063' GL

22. Approx. Date Work will Start
ROVD MAY 9 '11
OIL CONS. DIV.
DIST. 3

23. Proposed Casing and Cementing Program
See Operations Plan attached

24. Authorized by: Brandie Blakley (Staff Regulatory Technician) 2-24-11 Date

Hold C104
for Directional Survey
and "As Drilled" plat

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY [Signature] TITLE ARM DATE 5/4/11

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

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

for Directional Survey
and "As Drilled" plat
JUN 02 2011
NMOCD AV

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

PC

PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 30-5 UNIT 82M

DEVELOPMENT

Lease:	AFE #: WAN.CDR.9335			AFE \$: 946,545.58
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: 36.785307 Longitude: -107.317532 X: Y: Section: 26 Range: 005W

Footage X: 128 FEL Footage Y: 2018 FNL Elevation: 7063 (FT) Township: 030N

Tolerance:

Location: Bottom Hole Datum Code: NAD 27 Directional

Latitude: 36.785552 Longitude: -107.312792 X: Y: Section: 25 Range: 005W

Footage X: 1260 FWL Footage Y: 1930 FNL Elevation: (FT) Township: 030N

Tolerance:

Location Type: Restricted Start Date (Est.): 1/1/2013 Completion Date: Date In Operation:

Formation Data: Assume KB = 7078 Units = FT

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	230	6848		<input type="checkbox"/>			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.
NACIMIENTO	1964	5114		<input type="checkbox"/>			
OJO ALAMO	3171	3907		<input type="checkbox"/>			
KIRTLAND	3342	3736		<input type="checkbox"/>			
FRUITLAND	3370	3708		<input type="checkbox"/>			Possible Gas
PICTURED CLIFFS	3974	3104		<input type="checkbox"/>			
LEWIS	4089	2989		<input type="checkbox"/>			
Intermediate Casing	4189	2889		<input type="checkbox"/>	122		8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 1006 cuft. Circulate cement to surface.
HUERFANITO BENTONITE	4772	2306		<input type="checkbox"/>			
CHACRA	5072	2006		<input type="checkbox"/>			
UPPER CLIFF HOUSE	5758	1320		<input type="checkbox"/>			Gas; Est. Top Perf - 5760 (1318)
MASSIVE CLIFF HOUSE	5936	1142		<input type="checkbox"/>	787		Gas; Cliffhouse is dry
MENEFEE	5963	1115		<input type="checkbox"/>			
POINT LOOKOUT	6176	902		<input type="checkbox"/>			
MANCOS	6582	496		<input type="checkbox"/>			
UPPER GALLUP	7443	-365		<input type="checkbox"/>			
GREENHORN	8172	-1094		<input type="checkbox"/>			
GRANEROS	8218	-1140		<input type="checkbox"/>			
TWO WELLS	8335	-1257		<input type="checkbox"/>	3310		Gas
PAGUATE	8341	-1263		<input type="checkbox"/>			
UPPER CUBERO	8351	-1273		<input type="checkbox"/>			

PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 30-5 UNIT 82M

DEVELOPMENT

LOWER CUBERO	8388	-1310	<input type="checkbox"/>	Est. Btm Perf - 8403 (- 1325) based on offset wells
Total Depth	8418	-1340	<input type="checkbox"/>	211 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.
ENCINAL	8466	-1388	<input type="checkbox"/>	TD - 30' below T/CBRL

Reference Wells:		
Reference Type	Well Name	Comments
Production	SJ 30-5 Unit 82	30N 5W 25 SE NW NW
Production	SJ 30-5 Unit 93	30N 5W 26 SW NE NE
Production	SJ 30-5 Unit 91	30N 5W 25 SE NW SW

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
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ConocoPhillips or its affiliates
Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 30-5 #82M
Company:	ConocoPhillips SJBU	TVD Reference:	RKB @ 7078.0ft (AWS Rig)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 7078.0ft (AWS Rig)
Site:	San Juan 30 Wells	North Reference:	True
Well:	SJ 30-5 #82M	Survey Calculation Method:	Minimum Curvature
Wellbore Design:	Original Hole 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 #82M, Directional S Curve long stepout			
Well Position	+N/S	0.0 ft	Northing:	2,105,517.22 ft
	+E/W	0.0 ft	Easting:	651,044.77 ft
Position Uncertainty		3.5 ft	Wellhead Elevation:	ft
			Ground Level:	7,063.0 ft
			Latitude:	36° 47' 7.107 N
			Longitude:	107° 19' 3.116 W

Wellbore:	Original Hole				
Magnetics:	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	BGGM2010	9/21/2010	(°)	(°)	(nT)
			9.79	63.64	50,887

Design:	Plan #1			
Audit Notes:				
Version:	1	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	86.32

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	
230.0	0.00	0.00	230.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,527.0	25.94	86.32	1,483.1	18.5	288.0	2.00	2.00	0.00	86.32	
3,607.0	25.94	86.32	3,353.6	76.9	1,196.0	0.00	0.00	0.00	0.00	
4,471.6	0.00	0.00	4,189.0	89.2	1,388.0	3.00	-3.00	0.00	180.00	SJ 30-5 #82M ICP
8,700.6	0.00	0.00	8,418.0	89.2	1,388.0	0.00	0.00	0.00	0.00	SJ 30-5 #82M PCP

ConocoPhillips or its affiliates
Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 30-5 #82M
Company:	ConocoPhillips SJBU	TVD Reference:	RKB @ 7078.0ft (AWS Rig)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 7078.0ft (AWS Rig)
Site:	San Juan 30 Wells	North Reference:	True
Well:	SJ 30-5 #82M	Survey Calculation Method:	Minimum Curvature
Wellbore Design:	Original Hole 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	1.40	86.32	300.0	0.1	0.9	0.9	2.00	2.00	0.00	
400.0	3.40	86.32	399.9	0.3	5.0	5.0	2.00	2.00	0.00	
500.0	5.40	86.32	499.6	0.8	12.7	12.7	2.00	2.00	0.00	
600.0	7.40	86.32	599.0	1.5	23.8	23.9	2.00	2.00	0.00	
700.0	9.40	86.32	697.9	2.5	38.4	38.5	2.00	2.00	0.00	
800.0	11.40	86.32	796.2	3.6	56.4	56.5	2.00	2.00	0.00	
900.0	13.40	86.32	893.9	5.0	77.8	78.0	2.00	2.00	0.00	
1,000.0	15.40	86.32	990.8	6.6	102.6	102.9	2.00	2.00	0.00	
1,100.0	17.40	86.32	1,086.7	8.4	130.8	131.1	2.00	2.00	0.00	
1,200.0	19.40	86.32	1,181.6	10.4	162.3	162.7	2.00	2.00	0.00	
1,300.0	21.40	86.32	1,275.3	12.7	197.1	197.5	2.00	2.00	0.00	
1,400.0	23.40	86.32	1,367.7	15.1	235.1	235.6	2.00	2.00	0.00	
1,500.0	25.40	86.32	1,458.8	17.8	276.4	276.9	2.00	2.00	0.00	
1,527.0	25.94	86.32	1,483.1	18.5	288.0	288.6	2.00	2.00	0.00	
1,600.0	25.94	86.32	1,548.8	20.6	319.9	320.6	0.00	0.00	0.00	
1,700.0	25.94	86.32	1,638.7	23.4	363.5	364.3	0.00	0.00	0.00	
1,800.0	25.94	86.32	1,728.6	26.2	407.2	408.0	0.00	0.00	0.00	
1,900.0	25.94	86.32	1,818.6	29.0	450.8	451.8	0.00	0.00	0.00	
2,000.0	25.94	86.32	1,908.5	31.8	494.5	495.5	0.00	0.00	0.00	
2,061.7	25.94	86.32	1,964.0	33.5	521.4	522.5	0.00	0.00	0.00	
Nacimiento										
2,100.0	25.94	86.32	1,998.4	34.6	538.1	539.3	0.00	0.00	0.00	
2,200.0	25.94	86.32	2,088.3	37.4	581.8	583.0	0.00	0.00	0.00	
2,300.0	25.94	86.32	2,178.3	40.2	625.5	626.7	0.00	0.00	0.00	
2,400.0	25.94	86.32	2,268.2	43.0	669.1	670.5	0.00	0.00	0.00	
2,500.0	25.94	86.32	2,358.1	45.8	712.8	714.2	0.00	0.00	0.00	
2,600.0	25.94	86.32	2,448.0	48.6	756.4	758.0	0.00	0.00	0.00	
2,700.0	25.94	86.32	2,538.0	51.4	800.1	801.7	0.00	0.00	0.00	
2,800.0	25.94	86.32	2,627.9	54.2	843.7	845.5	0.00	0.00	0.00	
2,900.0	25.94	86.32	2,717.8	57.0	887.4	889.2	0.00	0.00	0.00	
3,000.0	25.94	86.32	2,807.8	59.9	931.0	932.9	0.00	0.00	0.00	
3,100.0	25.94	86.32	2,897.7	62.7	974.7	976.7	0.00	0.00	0.00	
3,200.0	25.94	86.32	2,987.6	65.5	1,018.3	1,020.4	0.00	0.00	0.00	
3,300.0	25.94	86.32	3,077.5	68.3	1,062.0	1,064.2	0.00	0.00	0.00	
3,400.0	25.94	86.32	3,167.5	71.1	1,105.6	1,107.9	0.00	0.00	0.00	
3,403.9	25.94	86.32	3,171.0	71.2	1,107.3	1,109.6	0.00	0.00	0.00	
Ojo Alamo										
3,500.0	25.94	86.32	3,257.4	73.9	1,149.3	1,151.6	0.00	0.00	0.00	
3,594.1	25.94	86.32	3,342.0	76.5	1,190.3	1,192.8	0.00	0.00	0.00	
Kirtland										
3,600.0	25.94	86.32	3,347.3	76.7	1,192.9	1,195.4	0.00	0.00	0.00	
3,607.0	25.94	86.32	3,353.6	76.9	1,196.0	1,198.4	0.00	0.00	0.00	
3,625.2	25.39	86.32	3,370.0	77.4	1,203.8	1,206.3	3.00	-3.00	0.00	
Fruitland										
3,700.0	23.15	86.32	3,438.2	79.4	1,234.5	1,237.1	3.00	-3.00	0.00	
3,800.0	20.15	86.32	3,531.1	81.7	1,271.3	1,274.0	3.00	-3.00	0.00	
3,900.0	17.15	86.32	3,625.9	83.8	1,303.2	1,305.9	3.00	-3.00	0.00	
4,000.0	14.15	86.32	3,722.1	85.5	1,330.2	1,332.9	3.00	-3.00	0.00	

ConocoPhillips or its affiliates
Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 30-5 #82M
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 7078.0ft (AWS Rig)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 7078.0ft (AWS Rig)
Site:	San Juan 30 Wells	North Reference:	True
Well:	SJ 30-5 #82M	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
4,100.0	11.15	86.32	3,819.7	86.9	1,352.0	1,354.8	3.00	-3.00	0.00	
4,200.0	8.15	86.32	3,918.3	88.0	1,368.7	1,371.6	3.00	-3.00	0.00	
4,256.2	6.46	86.32	3,974.0	88.5	1,375.9	1,378.7	3.00	-3.00	0.00	
Pictured Cliffs										
4,300.0	5.15	86.32	4,017.6	88.7	1,380.3	1,383.1	3.00	-3.00	0.00	
4,371.6	3.00	86.32	4,089.0	89.1	1,385.4	1,388.2	3.00	-3.00	0.00	
Lewis										
4,400.0	2.15	86.32	4,117.4	89.1	1,386.6	1,389.5	3.00	-3.00	0.00	
4,471.6	0.00	0.00	4,189.0	89.2	1,388.0	1,390.8	3.00	-3.00	0.00	
Int - SJ 30-5 #82M ICP										
4,500.0	0.00	0.00	4,217.4	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
4,600.0	0.00	0.00	4,317.4	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
4,700.0	0.00	0.00	4,417.4	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
4,800.0	0.00	0.00	4,517.4	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
4,900.0	0.00	0.00	4,617.4	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
5,000.0	0.00	0.00	4,717.4	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
5,054.6	0.00	0.00	4,772.0	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
Huerfano Bentonite										
5,100.0	0.00	0.00	4,817.4	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
5,200.0	0.00	0.00	4,917.4	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
5,300.0	0.00	0.00	5,017.4	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
5,354.6	0.00	0.00	5,072.0	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
Chacra										
5,400.0	0.00	0.00	5,117.4	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
5,500.0	0.00	0.00	5,217.4	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
5,600.0	0.00	0.00	5,317.4	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
5,700.0	0.00	0.00	5,417.4	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
5,800.0	0.00	0.00	5,517.4	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
5,900.0	0.00	0.00	5,617.4	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
6,000.0	0.00	0.00	5,717.4	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
6,040.6	0.00	0.00	5,758.0	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
Upper Cliffhouse										
6,100.0	0.00	0.00	5,817.4	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
6,200.0	0.00	0.00	5,917.4	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
6,218.6	0.00	0.00	5,936.0	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
Massive Cliffhouse										
6,245.6	0.00	0.00	5,963.0	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
Menefee										
6,300.0	0.00	0.00	6,017.4	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
6,400.0	0.00	0.00	6,117.4	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
6,458.6	0.00	0.00	6,176.0	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
Point Lookout										
6,500.0	0.00	0.00	6,217.4	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
6,600.0	0.00	0.00	6,317.4	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
6,700.0	0.00	0.00	6,417.4	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
6,800.0	0.00	0.00	6,517.4	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
6,864.6	0.00	0.00	6,582.0	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
Mancos										
6,900.0	0.00	0.00	6,617.4	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
7,000.0	0.00	0.00	6,717.4	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
7,100.0	0.00	0.00	6,817.4	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
7,200.0	0.00	0.00	6,917.4	89.2	1,388.0	1,390.8	0.00	0.00	0.00	

ConocoPhillips or its affiliates
Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 30-5 #82M
Company:	ConocoPhillips SJBU	TVD Reference:	RKB @ 7078.0ft (AWS Rig)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 7078.0ft (AWS Rig)
Site:	San Juan 30 Wells	North Reference:	True
Well:	SJ 30-5 #82M	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
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)	
7,300.0	0.00	0.00	7,017.4	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,117.4	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,217.4	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,317.4	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,417.4	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
7,725.6	0.00	0.00	7,443.0	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
Upper Gallup										
7,800.0	0.00	0.00	7,517.4	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,617.4	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,717.4	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
8,100.0	0.00	0.00	7,817.4	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
8,200.0	0.00	0.00	7,917.4	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,017.4	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,117.4	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
8,454.6	0.00	0.00	8,172.0	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
Greenhorn										
8,500.0	0.00	0.00	8,217.4	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
8,500.6	0.00	0.00	8,218.0	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
Graneros										
8,600.0	0.00	0.00	8,317.4	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
8,617.6	0.00	0.00	8,335.0	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
Two Wells										
8,623.6	0.00	0.00	8,341.0	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
Paguate										
8,633.6	0.00	0.00	8,351.0	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
Upper Cubero										
8,670.6	0.00	0.00	8,388.0	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
Lower Cubero										
8,700.0	0.00	0.00	8,417.4	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
8,700.6	0.00	0.00	8,418.0	89.2	1,388.0	1,390.8	0.00	0.00	0.00	
Prod - SJ 30-5 #82M PCP										

Targets										
Target Name	hit/miss target Shape	Dip Angle (°)	Dip Dir (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
SJ 30-5 #82M PCP	- plan hits target center - Circle (radius 100.0)	0.00	0.00	8,418.0	89.2	1,388.0	2,105,613.90	652,432.19	36° 47' 7.989 N	107° 18' 46.054 W
SJ 30-5 #82M ICP	- plan hits target center - Circle (radius 100.0)	0.00	0.00	4,189.0	89.2	1,388.0	2,105,613.93	652,432.17	36° 47' 7.989 N	107° 18' 46.054 W

ConocoPhillips or its affiliates
Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 30-5 #82M
Company:	ConocoPhillips SJBU	TVD Reference:	RKB @ 7078.0ft (AWS Rig)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 7078.0ft (AWS Rig)
Site:	San Juan 30 Wells	North Reference:	True
Well:	SJ 30-5 #82M	Survey Calculation Method:	Minimum Curvature
Wellbore Design:	Original Hole Plan #1		

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
8,700.6	8,418.0	Prod	4-1/2	6-1/4	
4,471.6	4,189.0	Int	7	8-3/4	
230.0	230.0	Surf	9-5/8	12-1/4	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
8,670.6	8,388.0	Lower Cubero		0.00		
7,725.6	7,443.0	Upper Gallup		0.00		
8,500.6	8,218.0	Graneros		0.00		
6,218.6	5,936.0	Massive Cliffhouse		0.00		
3,594.1	3,342.0	Kirtland		0.00		
6,864.6	6,582.0	Mancos		0.00		
4,371.6	4,089.0	Lewis		0.00		
3,625.2	3,370.0	Fruitland		0.00		
8,617.6	8,335.0	Two Wells		0.00		
6,458.6	6,176.0	Point Lookout		0.00		
	8,466.0	Encinal		0.00		
6,245.6	5,963.0	Menefee		0.00		
4,256.2	3,974.0	Pictured Cliffs		0.00		
8,633.6	8,351.0	Upper Cubero		0.00		
5,054.6	4,772.0	Huerfanito Bentonite		0.00		
5,354.6	5,072.0	Chacra		0.00		
6,040.6	5,758.0	Upper Cliffhouse		0.00		
8,623.6	8,341.0	Paguate		0.00		
8,454.6	8,172.0	Greenhorn		0.00		
2,061.7	1,964.0	Nacimiento		0.00		
3,403.9	3,171.0	Ojo Alamo		0.00		

REFERENCE INFORMATION

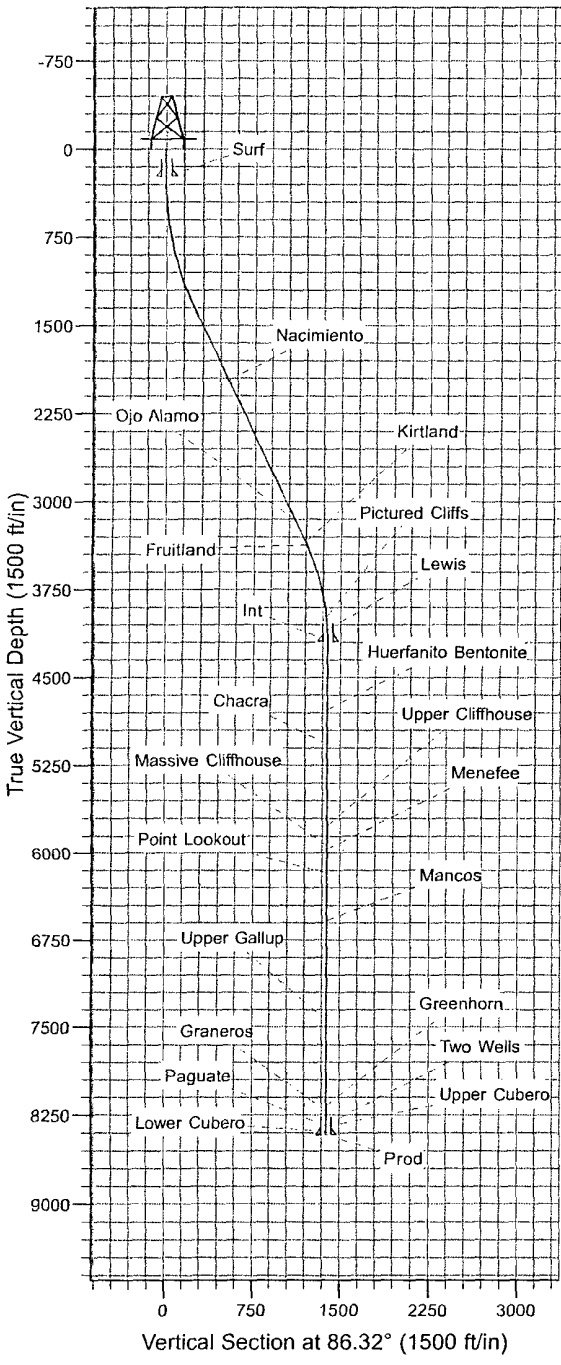
RKB @ 7078.0ft (AWS Rig)
 Ground Elevation 7063.0
 Reference Lat: 36° 47' 7.107 N
 Reference Long: 107° 19' 3.116 W

Project: San Juan Basin - New Mexico Wells
 Site: San Juan 30 Wells
 Well: SJ 30-5 #82M
 Wellbore: Original Hole
 Design: Plan #1



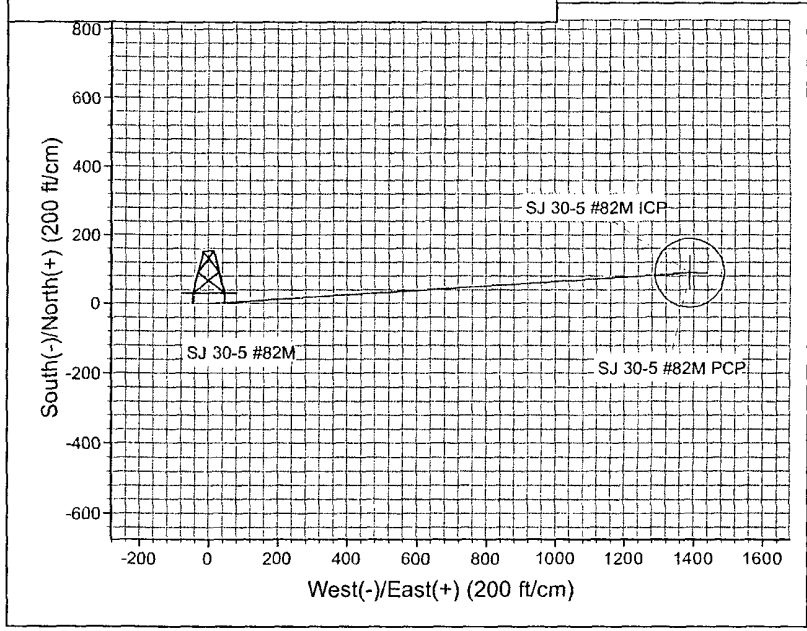
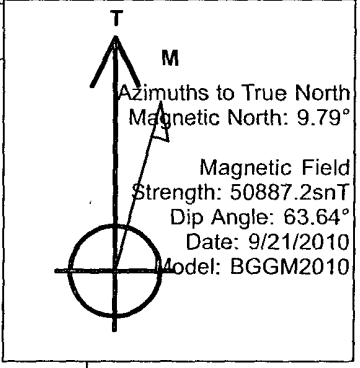
SECTION DETAILS

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	230.0	0.00	0.00	230.0	0.0	0.0	0.00	0.00	0.0	
3	1527.0	25.94	86.32	1483.1	18.5	288.0	2.00	86.32	288.6	
4	3607.0	25.94	86.32	3353.6	76.9	1196.0	0.00	0.00	1198.4	
5	4471.6	0.00	0.00	4189.0	89.2	1388.0	3.00	180.00	1390.8	SJ 30-5 #82M ICP
6	8700.6	0.00	0.00	8418.0	89.2	1388.0	0.00	0.00	1390.8	SJ 30-5 #82M PCP



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
		Encinal
1964.0	2061.7	Nacimiento
3171.0	3403.9	Ojo Alamo
3342.0	3594.1	Kirtland
3370.0	3625.2	Fruitland
3974.0	4256.2	Pictured Cliffs
4089.0	4371.6	Lewis
4772.0	5054.6	Huerfanito Bentonite
5072.0	5354.6	Chacra
5758.0	6040.6	Upper Cliffhouse
5936.0	6218.6	Massive Cliffhouse
5963.0	6245.6	Menefee
6176.0	6458.6	Point Lookout
6582.0	6864.6	Mancos
7443.0	7725.6	Upper Gallup
8172.0	8454.6	Greenhorn
8218.0	8500.6	Graneros
8335.0	8617.6	Two Wells
8341.0	8623.6	Paguete
8351.0	8633.6	Upper Cubero
8388.0	8670.6	Lower Cubero



CONOCOPHILLIPS COMPANY

SAN JUAN 30-5 UNIT #82M

2018' FNL, 128' FEL

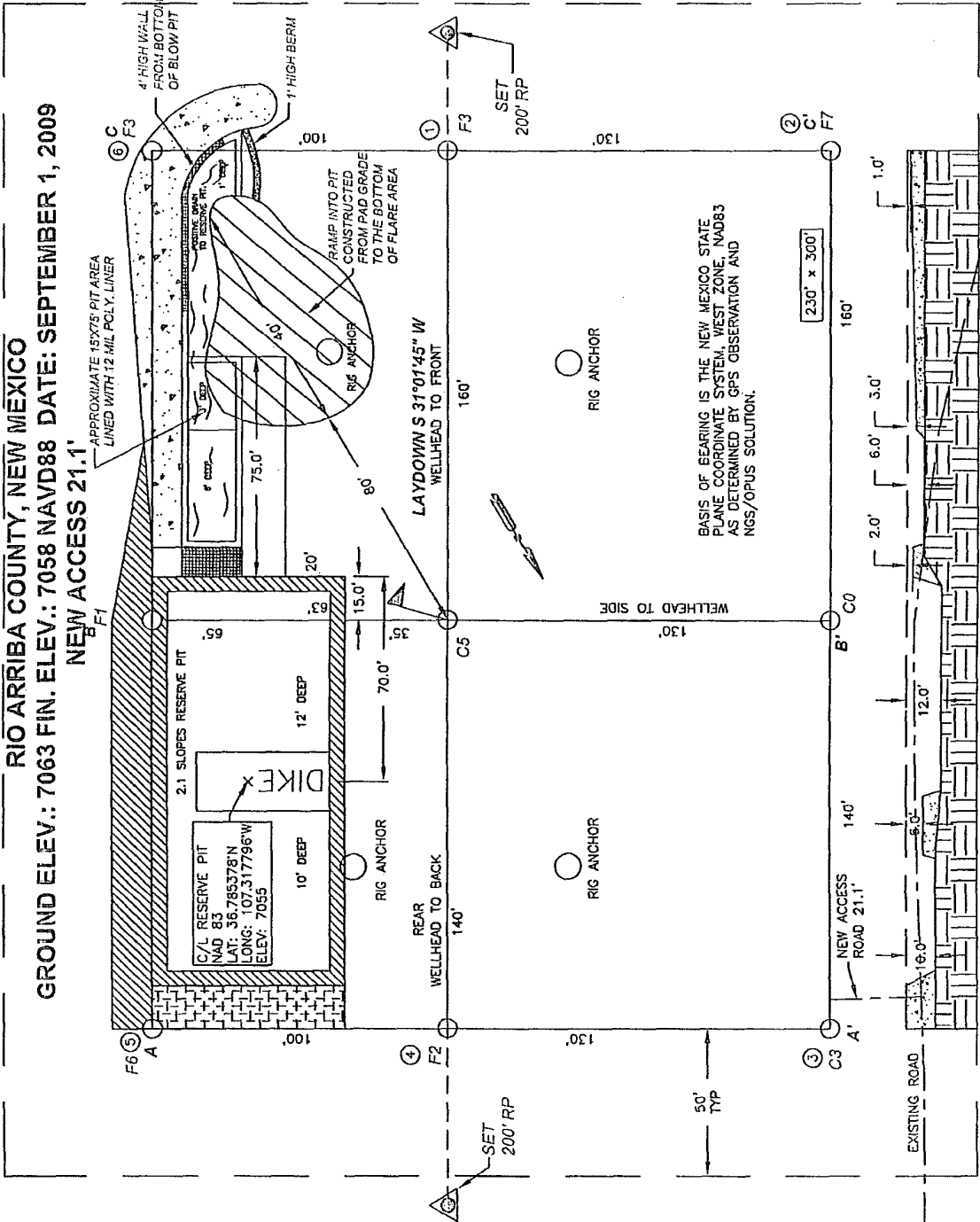
SECTION 26, T-30-N, R-5-W, N.M.P.M.,

RIO ARRIBA COUNTY, NEW MEXICO

GROUND ELEV.: 7063 FIN. ELEV.: 7058 NAVD88 DATE: SEPTEMBER 1, 2009

NEW ACCESS 21.1'

APPROXIMATE 15X75 PIT AREA
LINED WITH 12 MIL POLY. LINER



BASIS OF BEARING IS THE NEW MEXICO STATE
PLANE COORDINATE SYSTEM, WEST ZONE, NAD83
AS DETERMINED BY GPS OBSERVATION AND
NGS/OPUS SOLUTION.

PIT CROSS SECTION

NAD 83 LAT.: 36.785314°N / LONG.: 107.318133°W

P.O. BOX 328
BLOOMFIELD, N.M. 87413
CHEVAULT CONSULTING INC. PHONE: (505) 325-7707



CHEVAULT CONSULTING INC.

330' x 400' = 3.03 ACRES

NOTES:

- RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW-3' WIDE AND 1' ABOVE SHALLOW SIDE).
- 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 #82M
2018' FNL, 128' FEL
SECTION 26, T-30-N, R-5-W, N.M.P.M.,
RIO ARRIBA COUNTY, NEW MEXICO
NAD 83 LAT.: 36.785314°N LONG.: 107.318133°W
GROUND ELEV.: 7063 FIN. ELEV.: 7058 NAVD88
NEW ACCESS 21.1'

FROM BLOOMFIELD, NEW MEXICO:

- GO 50.0 MI. EAST ON HWY. 64 TO MILE MARKER 114.5. TURN LEFT (NORTH) ON FOREST ROAD 310 A.K.A. "BIXLER RANCH" TURNOFF.
- GO 4.4 MI. NORTHWEST ON FOREST ROAD 310. TURN LEFT ON FOREST ROAD 311 & HEAD WEST ALONG THE TOP OF CABRESTO MESA.
- GO 3.4 MI. WEST ON FOREST ROAD 311 ACROSS CABRESTO. TURN LEFT (WEST) & CONTINUE DOWNHILL GRADE ON FOREST ROAD 311.
- GO 2.1 MI. DOWNHILL & WESTERLY ON FOREST ROAD 311. BEGIN 21.1 FT. NEW ACCESS ON LEFT SIDE OF ROAD. NEW WELL IS STAKED HERE.