

NOS: 11/7/12
ADDP: N/A
MP: N/A
SMA: BLM
BOND: NMB000015
CAVA: N/A

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

JAN 29 2013

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	5. Lease Number SF-077107 Unit Reporting Number
1b. Type of Well GAS	6. If Indian, All. or Tribe
2. Operator ConocoPhillips Company	7. Unit Agreement Name
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name Michener 9. Well Number 1P
4. Location of Well Surface: Unit C (NE/NW), 795' FNL & 1340' FWL BHL : Unit C (NE/NW), 710' FNL & 2390' FWL Surface: Latitude: 36.637985° N (NAD83) Longitude: 107.798430° W BHL: Latitude: 36.638231° N (NAD83) Longitude: 107.794849° W	10. Field, Pool, Wildcat Basin DK/Blanco MV 11. Sec., Twn, Rge, Mer. (NMPM) Surf: Sec. 28, T28N, R9W BHL : Sec. 28, T28N, R9W API # 30-045-35456
14. Distance in Miles from Nearest Town 14.6	12. County San Juan 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 710' from Michener A LS #3 (PC)	
16. Acres in Lease 783.220	17. Acres Assigned to Well 320 N/2
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 400'	
19. Proposed Depth 6782'	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6011' GL	22. Approx. Date Work will Start
23. Proposed Casing and Cementing Program See Operations Plan attached	
24. Authorized by: [Signature] Date: 1/29/13	

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY [Signature] TITLE [Signature] DATE 2/25/13

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 NMB-000015 and NMB-000089

MAR 06 2013

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

Hold C104
for Directional Survey
and "As Drilled" plat

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240
Phone: (575) 393-0101 Fax: (575) 393-0720

DISTRICT II
611 S. First St., Artesia, N.M. 88210
Phone: (575) 740-1203 Fax: (575) 745-9720

DISTRICT III
1000 Rio Grande Blvd., Aztec, N.M. 87410
Phone: (505) 334-5170 Fax: (505) 334-8170

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, N.M. 87505
Phone: (505) 476-3400 Fax: (505) 476-3402

State of New Mexico
Energy, Minerals & Natural Resources Department

JAN 29 2013

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM. 87505

Formation Field Office
Bureau of Land Management

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35456	² Pool Code 71599/72319	³ Pool Name BASIN DAKOTA/BLANCO MESAVERDE
⁴ Property Code 31825	⁵ Property Name MICHENER	⁶ Well Number 1P
⁷ GRID No. 217817	⁸ Operator Name CONOCOPHILLIPS COMPANY	⁹ Elevation 6011'

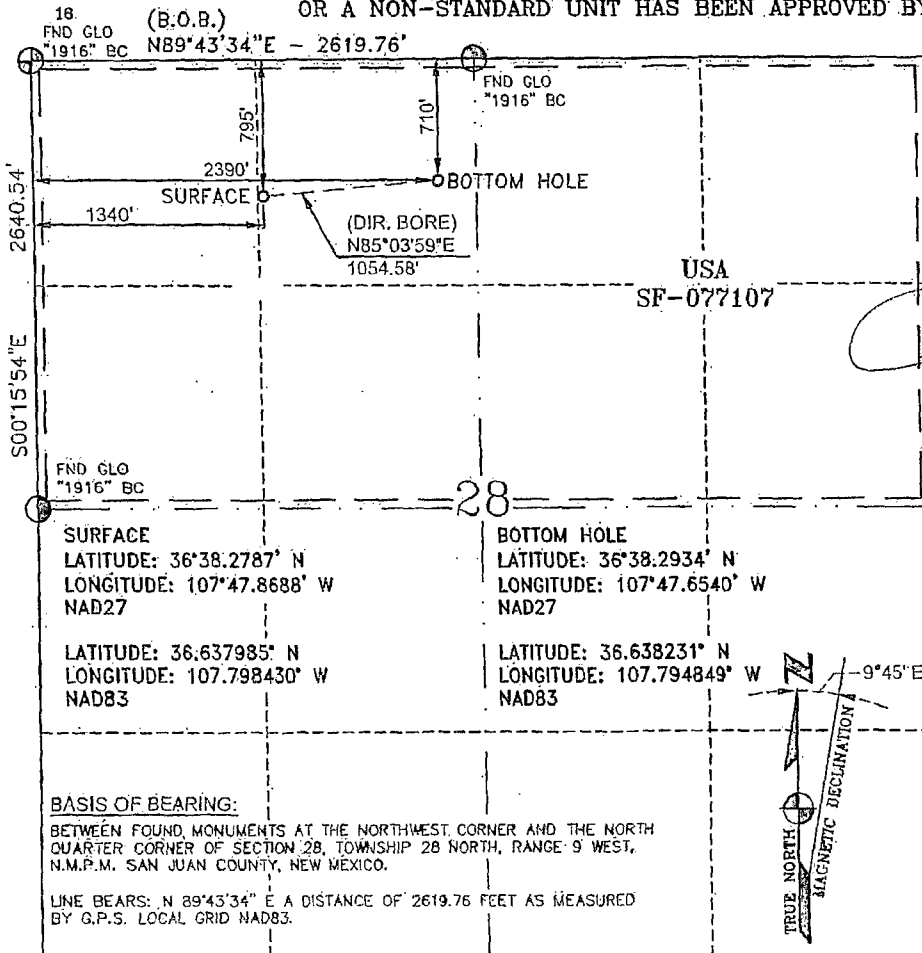
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	28	28-N	9-W		795	NORTH	1340	WEST	SAN JUAN

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
C	28	28-N	9-W		710	NORTH	2390	WEST	SAN JUAN
¹² Dedicated Acres DK 320.00 ACRES N/2 MV 320.00 ACRES N/2			¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.		

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or a working interest, or to a voluntary pooling agreement or a compulsory pooling order, heretofore entered by the Division.



1/25/13

Signature Date

Kenny Davis

Printed Name

kenny.r.davis@conocophillips.com

E-mail Address

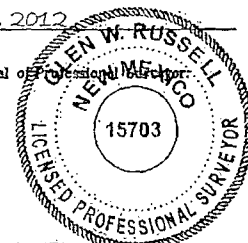
18 SURVEYOR CERTIFICATION

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.

OCTOBER 4, 2012

Date of Survey

Signature and Seal of Professional Surveyor



GLEN W. RUSSELL

Certificate Number

15703

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

MICHENER 1P

DEVELOPMENT

Lease:		AFE #: WAN.CDR.1140				AFE \$:	
Field Name: SAN JUAN		Rig: Aztec Rig 711		State: NM	County: SAN JUAN		API #:
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist:		Phone:		Prod. Engineer:		Phone:	
Res. Engineer:		Phone:		Proj. Field Lead:		Phone:	
Primary Objective (Zones):							
Zone	Zone Name						
RON	BLANCO MESAVERDE (PRORATED GAS)						
FRR	BASIN DAKOTA (PRORATED GAS)						
Location: Surface Datum Code: NAD 27 Directional							
Latitude: 36.637978	Longitude: -107.797814	X:	Y:	Section: 28		Range: 009W	
Footage X: 1340 FWL	Footage Y: 795 FNL	Elevation: 6011	(FT)	Township: 028N			
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27 Directional							
Latitude: 36.638224	Longitude: -107.794233	X:	Y:	Section: 28		Range: 009W	
Footage X: 2390 FWL	Footage Y: 710 FNL	Elevation:	(FT)	Township: 028N			
Tolerance:							
Location Type: Year Round		Start Date (Est.): 1/1/2014		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6026 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
NACIMIENTO	15	6011		☐			
Surface Casing	200	5826		☐	59		12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.
OJO ALAMO	1168	4858		☐			
KIRTLAND	1287	4739		☐			
FRUITLAND	1768	4258		☐			Possible Gas
PICTURED CLIFFS	2199	3827		☐	114		
LEWIS	2336	3690		☐		101	
CHACRA	3162	2864		☐			
HUERFANITO BENTONITE	3652	2374		☐			
UPPER CLIFF HOUSE	3772	2254		☐			
MASSIVE CLIFF HOUSE	3852	2174		☐	552		
MENEFEE	3896	2130		☐			Gas
Intermediate Casing	4048	1978		☐	131		8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 912 cuft. Circulate cement to surface.
POINT LOOKOUT	4497	1529		☐			Gas - Est bot MV perf 4805' tvd (~308' below T/PNLK).
MANCOS	4828	1198		☐			
UPPER GALLUP	5662	364		☐			
GREENHORN	6451	-425		☐			
GRANEROS	6516	-490		☐			
TWO WELLS	6574	-548		☐	1892	184	Gas - Est top DK perf 6592' tvd (~18' below T/TWLS).
PAGUATE	6628	-602		☐			Gas
LOWER CUBERO	6681	-655		☐			Gas

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

MICHENER 1P

DEVELOPMENT

ENCINAL	6742	-716	☐	Gas - Est bot DK perf 6762' tvd (~40' below T/ENCN).
Total Depth	6782	-756	☐	188 6-1/4" hole, 4-1/2" 11.6 ppf, L-80, LTC casing. Cement w/ 362 cuft. Circulate cement a minimum of 100' inside the previous casing string.
BURRO CANYON	6806	-780	☐	
MORRISON	6819	-793	☐	

Reference Wells:

Reference Type	Well Name	Comments
Production	MICHENER 1	

Logging Program:

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

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

GR/CBL.

Mud log ~100' above T/GLLP down to TD.

Mudlogger will call TD.

Est bot DK perf ~20' above TD.

Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Michener #1P
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6026.0usft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6026.0usft (Original Well Elev)
Site:	Other Named Wells	North Reference:	Grid
Well:	Michener #1P	Survey Calculation Method:	Minimum Curvature
Wellbore:	Michener #1P		
Design:	Design #1		

Project	San Juan Basin - New Mexico West Wells, New Mexico, Directional "S"		
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		Other Named Wells			
Site Position:		Northing:	2,108,178.26 usft	Latitude:	36° 47' 33.793 N
From:	Lat/Long	Easting:	643,887.63 usft	Longitude:	107° 20' 30.932 W
Position Uncertainty:	15.0 usft	Slot Radius:	6-1/8"	Grid Convergence:	0.29 °

Well	Michener #1P					
Well Position	+N/-S	0.0 usft	Northing:	2,051,477.84 usft	Latitude:	36° 38' 16.721 N
	+E/-W	0.0 usft	Easting:	510,421.15 usft	Longitude:	107° 47' 52.130 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	6,011.0 usft

Wellbore	Michener #1P				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2012	12/14/2012	9.72	63.31	50,476

Design	Design #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	85.12

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,754.9	23.10	85.12	1,723.8	19.5	228.8	2.00	2.00	0.00	85.12	
3,467.0	23.10	85.12	3,298.8	76.7	898.1	0.00	0.00	0.00	0.00	
4,237.0	0.00	0.00	4,048.0	89.7	1,050.6	3.00	-3.00	0.00	180.00	Michener #1P ICP
6,971.0	0.00	0.00	6,782.0	89.7	1,050.6	0.00	0.00	0.00	0.00	Michener #1P PCP

ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Michener #1P
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6026.0usft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6026.0usft (Original Well Elev)
Site:	Other Named Wells	North Reference:	Grid
Well:	Michener #1P	Survey Calculation Method:	Minimum Curvature
Wellbore:	Michener #1P		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
15.0	0.00	0.00	15.0	0.0	0.0	0.0	0.00	0.00	0.00
NACIMIENTO									
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
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	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	2.00	85.12	700.0	0.1	1.7	1.7	2.00	2.00	0.00
800.0	4.00	85.12	799.8	0.6	7.0	7.0	2.00	2.00	0.00
900.0	6.00	85.12	899.5	1.3	15.6	15.7	2.00	2.00	0.00
1,000.0	8.00	85.12	998.7	2.4	27.8	27.9	2.00	2.00	0.00
1,100.0	10.00	85.12	1,097.5	3.7	43.4	43.5	2.00	2.00	0.00
1,171.8	11.44	85.12	1,168.0	4.8	56.7	56.9	2.00	2.00	0.00
OJO ALAMO									
1,200.0	12.00	85.12	1,195.6	5.3	62.4	62.6	2.00	2.00	0.00
1,293.8	13.88	85.12	1,287.0	7.1	83.3	83.6	2.00	2.00	0.00
KIRTLAND									
1,300.0	14.00	85.12	1,293.1	7.2	84.8	85.1	2.00	2.00	0.00
1,400.0	16.00	85.12	1,389.6	9.4	110.6	111.0	2.00	2.00	0.00
1,500.0	18.00	85.12	1,485.3	11.9	139.7	140.2	2.00	2.00	0.00
1,600.0	20.00	85.12	1,579.8	14.7	172.1	172.8	2.00	2.00	0.00
1,700.0	22.00	85.12	1,673.2	17.8	207.8	208.6	2.00	2.00	0.00
1,754.9	23.10	85.12	1,723.8	19.5	228.8	229.6	2.00	2.00	0.00
1,800.0	23.10	85.12	1,765.4	21.0	246.5	247.3	0.00	0.00	0.00
1,802.9	23.10	85.12	1,768.0	21.1	247.6	248.5	0.00	0.00	0.00
FRUITLAND									
1,900.0	23.10	85.12	1,857.3	24.4	285.5	286.6	0.00	0.00	0.00
2,000.0	23.10	85.12	1,949.3	27.7	324.6	325.8	0.00	0.00	0.00
2,100.0	23.10	85.12	2,041.3	31.1	363.7	365.0	0.00	0.00	0.00
2,200.0	23.10	85.12	2,133.3	34.4	402.8	404.3	0.00	0.00	0.00
2,271.4	23.10	85.12	2,199.0	36.8	430.7	432.3	0.00	0.00	0.00
PICTURED CLIFFS									
2,300.0	23.10	85.12	2,225.3	37.7	441.9	443.5	0.00	0.00	0.00
2,400.0	23.10	85.12	2,317.3	41.1	481.0	482.7	0.00	0.00	0.00
2,420.4	23.10	85.12	2,336.0	41.8	488.9	490.7	0.00	0.00	0.00
LEWIS									
2,500.0	23.10	85.12	2,409.2	44.4	520.1	522.0	0.00	0.00	0.00
2,600.0	23.10	85.12	2,501.2	47.8	559.1	561.2	0.00	0.00	0.00
2,700.0	23.10	85.12	2,593.2	51.1	598.2	600.4	0.00	0.00	0.00
2,800.0	23.10	85.12	2,685.2	54.4	637.3	639.6	0.00	0.00	0.00
2,900.0	23.10	85.12	2,777.2	57.8	676.4	678.9	0.00	0.00	0.00
3,000.0	23.10	85.12	2,869.2	61.1	715.5	718.1	0.00	0.00	0.00
3,100.0	23.10	85.12	2,961.1	64.4	754.6	757.3	0.00	0.00	0.00
3,200.0	23.10	85.12	3,053.1	67.8	793.7	796.6	0.00	0.00	0.00
3,300.0	23.10	85.12	3,145.1	71.1	832.8	835.8	0.00	0.00	0.00
3,318.4	23.10	85.12	3,162.0	71.7	839.9	843.0	0.00	0.00	0.00
CHACRA									
3,400.0	23.10	85.12	3,237.1	74.5	871.8	875.0	0.00	0.00	0.00
3,467.0	23.10	85.12	3,298.8	76.7	898.1	901.3	0.00	0.00	0.00
3,500.0	22.11	85.12	3,329.2	77.8	910.7	914.0	3.00	-3.00	0.00
3,600.0	19.11	85.12	3,422.8	80.8	945.7	949.2	3.00	-3.00	0.00

ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Michener #1P
Company:	ConocoPhillips SJBU	TVD Reference:	WELL @ 6026.0usft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6026.0usft (Original Well Elev)
Site:	Other Named Wells	North Reference:	Grid
Well:	Michener #1P	Survey Calculation Method:	Minimum Curvature
Wellbore:	Michener #1P		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,700.0	16.11	85.12	3,518.1	83.3	975.9	979.4	3.00	-3.00	0.00
3,800.0	13.11	85.12	3,614.8	85.5	1,001.0	1,004.7	3.00	-3.00	0.00
3,838.1	11.97	85.12	3,652.0	86.2	1,009.2	1,012.9	3.00	-3.00	0.00
HUERFANITO BENTONITE									
3,900.0	10.11	85.12	3,712.8	87.2	1,021.1	1,024.8	3.00	-3.00	0.00
3,960.0	8.31	85.12	3,772.0	88.0	1,030.6	1,034.4	3.00	-3.00	0.00
UPPER CLIFF HOUSE									
4,000.0	7.11	85.12	3,811.6	88.5	1,036.0	1,039.7	3.00	-3.00	0.00
4,040.6	5.89	85.12	3,852.0	88.9	1,040.5	1,044.3	3.00	-3.00	0.00
MASSIVE CLIFF HOUSE									
4,084.8	4.56	85.12	3,896.0	89.2	1,044.6	1,048.4	3.00	-3.00	0.00
MENEFEE									
4,100.0	4.11	85.12	3,911.2	89.3	1,045.7	1,049.5	3.00	-3.00	0.00
4,200.0	1.11	85.12	4,011.0	89.7	1,050.2	1,054.1	3.00	-3.00	0.00
4,237.0	0.00	0.00	4,048.0	89.7	1,050.6	1,054.4	3.00	-3.00	0.00
4,300.0	0.00	0.00	4,111.0	89.7	1,050.6	1,054.4	0.00	0.00	0.00
4,400.0	0.00	0.00	4,211.0	89.7	1,050.6	1,054.4	0.00	0.00	0.00
4,500.0	0.00	0.00	4,311.0	89.7	1,050.6	1,054.4	0.00	0.00	0.00
4,600.0	0.00	0.00	4,411.0	89.7	1,050.6	1,054.4	0.00	0.00	0.00
4,686.0	0.00	0.00	4,497.0	89.7	1,050.6	1,054.4	0.00	0.00	0.00
POINT LOOKOUT									
4,700.0	0.00	0.00	4,511.0	89.7	1,050.6	1,054.4	0.00	0.00	0.00
4,800.0	0.00	0.00	4,611.0	89.7	1,050.6	1,054.4	0.00	0.00	0.00
4,900.0	0.00	0.00	4,711.0	89.7	1,050.6	1,054.4	0.00	0.00	0.00
5,000.0	0.00	0.00	4,811.0	89.7	1,050.6	1,054.4	0.00	0.00	0.00
5,017.0	0.00	0.00	4,828.0	89.7	1,050.6	1,054.4	0.00	0.00	0.00
MANCOS									
5,100.0	0.00	0.00	4,911.0	89.7	1,050.6	1,054.4	0.00	0.00	0.00
5,200.0	0.00	0.00	5,011.0	89.7	1,050.6	1,054.4	0.00	0.00	0.00
5,300.0	0.00	0.00	5,111.0	89.7	1,050.6	1,054.4	0.00	0.00	0.00
5,400.0	0.00	0.00	5,211.0	89.7	1,050.6	1,054.4	0.00	0.00	0.00
5,500.0	0.00	0.00	5,311.0	89.7	1,050.6	1,054.4	0.00	0.00	0.00
5,600.0	0.00	0.00	5,411.0	89.7	1,050.6	1,054.4	0.00	0.00	0.00
5,700.0	0.00	0.00	5,511.0	89.7	1,050.6	1,054.4	0.00	0.00	0.00
5,800.0	0.00	0.00	5,611.0	89.7	1,050.6	1,054.4	0.00	0.00	0.00
5,851.0	0.00	0.00	5,662.0	89.7	1,050.6	1,054.4	0.00	0.00	0.00
UPPER GALLUP									
5,900.0	0.00	0.00	5,711.0	89.7	1,050.6	1,054.4	0.00	0.00	0.00
6,000.0	0.00	0.00	5,811.0	89.7	1,050.6	1,054.4	0.00	0.00	0.00
6,100.0	0.00	0.00	5,911.0	89.7	1,050.6	1,054.4	0.00	0.00	0.00
6,200.0	0.00	0.00	6,011.0	89.7	1,050.6	1,054.4	0.00	0.00	0.00
6,300.0	0.00	0.00	6,111.0	89.7	1,050.6	1,054.4	0.00	0.00	0.00
6,400.0	0.00	0.00	6,211.0	89.7	1,050.6	1,054.4	0.00	0.00	0.00
6,500.0	0.00	0.00	6,311.0	89.7	1,050.6	1,054.4	0.00	0.00	0.00
6,600.0	0.00	0.00	6,411.0	89.7	1,050.6	1,054.4	0.00	0.00	0.00
6,640.0	0.00	0.00	6,451.0	89.7	1,050.6	1,054.4	0.00	0.00	0.00
GREENHORN									
6,700.0	0.00	0.00	6,511.0	89.7	1,050.6	1,054.4	0.00	0.00	0.00
6,705.0	0.00	0.00	6,516.0	89.7	1,050.6	1,054.4	0.00	0.00	0.00
GRANEROS									
6,763.0	0.00	0.00	6,574.0	89.7	1,050.6	1,054.4	0.00	0.00	0.00
TWO WELLS									

ConocoPhillips Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Michener #1P
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6026.0usft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6026.0usft (Original Well Elev)
Site:	Other Named Wells	North Reference:	Grid
Well:	Michener #1P	Survey Calculation Method:	Minimum Curvature
Wellbore:	Michener #1P		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
6,800.0	0.00	0.00	6,611.0	89.7	1,050.6	1,054.4	0.00	0.00	0.00	
6,817.0	0.00	0.00	6,628.0	89.7	1,050.6	1,054.4	0.00	0.00	0.00	
PAGUATE										
6,870.0	0.00	0.00	6,681.0	89.7	1,050.6	1,054.4	0.00	0.00	0.00	
LOWER CUBERO										
6,900.0	0.00	0.00	6,711.0	89.7	1,050.6	1,054.4	0.00	0.00	0.00	
6,931.0	0.00	0.00	6,742.0	89.7	1,050.6	1,054.4	0.00	0.00	0.00	
ENCINAL										
6,971.0	0.00	0.00	6,782.0	89.7	1,050.6	1,054.4	0.00	0.00	0.00	

Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
hit/miss target										
Shape										
Michener #1P ICP	0.00	0.00	4,048.0	89.7	1,050.6	2,051,567.56	511,471.66	36° 38' 17.604 N	107° 47' 39.240 W	
- plan hits target center										
- Point										
Michener #1P PCP	0.00	0.00	6,782.0	89.7	1,050.6	2,051,567.56	511,471.66	36° 38' 17.604 N	107° 47' 39.240 W	
- plan hits target center										
- Point										

REFERENCE INFORMATION

Project: San Juan Basin - New Mexico West V
 Site: Other Named Wells
 Well: Michener #1P
 Wellbore: Michener #1P
 Design: Design #1

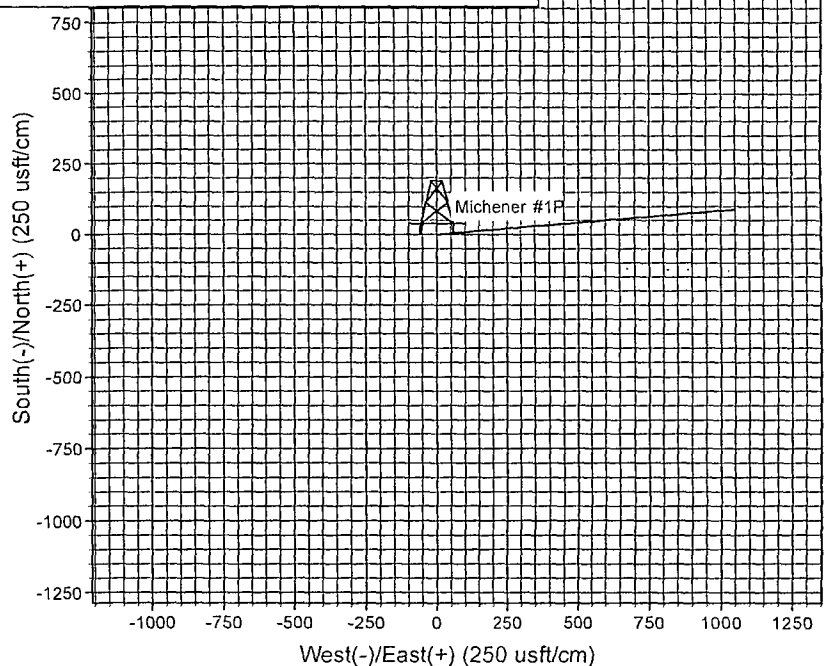
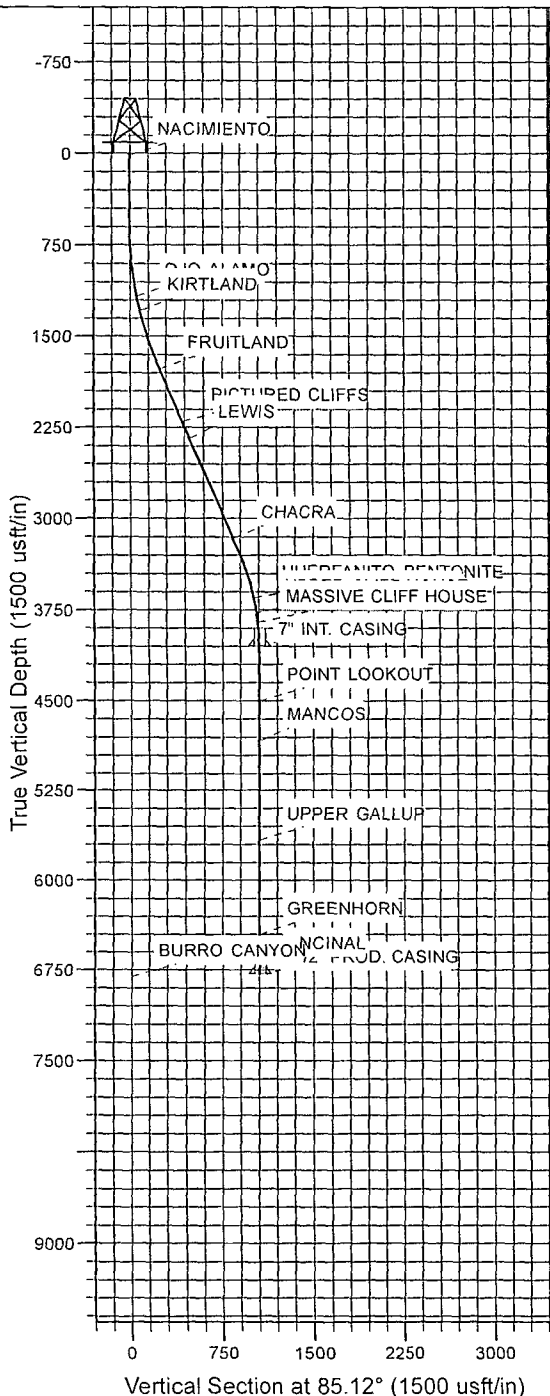
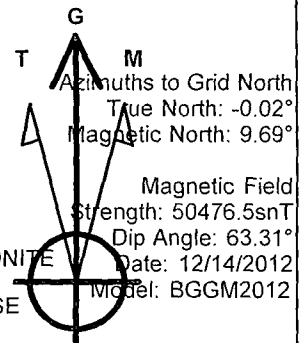
WELL @ 6026.0usft (Original Well Elev)
 Ground Elevation 6011.0
 Reference Lat: 36° 38' 16.721 N
 Reference Long: 107° 47' 52.130 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1754.9	23.10	85.12	1723.8	19.5	228.8	2.00	85.12	229.6	
4	3467.0	23.10	85.12	3298.8	76.7	898.1	0.00	0.00	901.3	
5	4237.0	0.00	0.00	4048.0	89.7	1050.6	3.00	180.00	1054.4	Michener #1P ICP
6	6971.0	0.00	0.00	6782.0	89.7	1050.6	0.00	0.00	1054.4	Michener #1P PCP

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
15.0	15.0	NACIMIENTO
1168.0	1171.8	OJO ALAMO
1287.0	1293.8	KIRTLAND
1768.0	1802.9	FRUITLAND
2199.0	2271.4	PICTURED CLIFFS
2336.0	2420.4	LEWIS
3162.0	3318.4	CHACRA
3652.0	3838.1	HUERFANITO BENTONITE
3772.0	3960.0	UPPER CLIFF HOUSE
3852.0	4040.6	MASSIVE CLIFF HOUSE
3896.0	4084.8	MENEFEE
4497.0	4686.0	POINT LOOKOUT
4828.0	5017.0	MANCOS
5662.0	5851.0	UPPER GALLUP
6451.0	6640.0	GREENHORN
6516.0	6705.0	GRANEROS
6574.0	6763.0	TWO WELLS
6628.0	6817.0	PAGUATE
6681.0	6870.0	LOWER CUBERO
6742.0	6931.0	ENCINAL



Directions from the Intersection of
Hwy 550 and Hwy 64,
in Bloomfield, NM
to

CONOCOPHILLIPS COMPANY

MICHENER #1P

795' FNL & 1340' FWL,

Section 28, T28N, R9W, N.M.P.M., San Juan County,
New Mexico

Latitude: $36^{\circ} 38' 16.745''$ N

Longitude: $107^{\circ} 47' 54.346''$ W

Nad 1983

Go south on Hwy 550 for 1.0 miles to CR 4990,
turn left (easterly) on CR 4990 (Sullivan Road) 8.5 miles,
turn right (southerly) 1.7 miles,
continue (southeasterly) 1.2 miles,
stay left @ y-intersec (southeasterly) 0.7 miles,
stay left @ y-intersec (southeasterly) 0.8 miles
to irrigation canal,
cross over canal (south-southeasterly) 0.5 miles,
turn left (northeasterly) 0.1 miles,
turn left (northerly) 500 feet
to beginning of new access on east side of existing location

MICHENER A LS #3

Which continues (northeasterly) 171.45' to newly staked location.