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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SEP 23 2012

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG-BACK ^{Blanco Field Office}
^{Bureau of Land Management}

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
NM - 04202
Unit Reporting Number

1b. Type of Well
GAS

6. If Indian, All. or Tribe

2. Operator
ConocoPhillips
Company

7. Unit Agreement Name
RCVD DEC 17 '12
OIL CONS. DIV.
DIST. 3

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

8. Farm or Lease Name
Jackson Com

9. Well Number
1N

4. Location of Well
Surface: Unit L (NW/SW), 1738' FSL & 15' FWL
BHL: Unit L (NW/SW), 1855' FSL & 1020' FWL
Surface: Latitude: 36.674019° N (NAD83) ^{LO 4}
Longitude: 107.803059° W
BHL: Latitude: 36.674334° N (NAD83)
Longitude: 107.799634 °W

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

11. Sec., Twn, Rge, Mer. (NMPM)
Sec. 9, T28N, R9W

API # 30-045- ³⁵⁴¹⁸

14. Distance in Miles from Nearest Town
21.4 miles from Bloomfield, NM

12. County
San Juan

13. State
NM

15. Distance from Proposed Location to Nearest Property or Lease Line
1020'

16. Acres in Lease
1198.280

17. Acres Assigned to Well
340.52 acres DK
272.08 acres MV

18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease
71.7' from Jackson Com 1E (Basin DK)

19. Proposed Depth
7849 7489

20. Rotary or Cable Tools
Rotary

H₂S POTENTIAL EXIST

21. Elevations (DF, FT, GR, Etc.)
6610' GL

22. Approx. Date Work will Start
9/26/12

23. Proposed Casing and Cementing Program
See Operations Plan attached

24. Authorized by: Marie E. Jaramillo (Staff Regulatory Tech)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY: *[Signature]* TITLE: *AFM* DATE: *12/13/12*

Archaeological Report attached
Threatened and Endangered Species Report attached

A gas recovery unit may or may not be used on this location.

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

This action is subject to technical and procedural review pursuant to 43 CFR 3165.9 and appeal pursuant to 43 CFR 3165.4

JAN 08 2013

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

Hold C104 for Directional Survey and "As Drilled" plat

NO DRILLING FOR NSL

PC

NOTIFY AZTEC OCD 24 HRS PRIOR TO CASING & CEMENT

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 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

SEP 26 2012

Form C-102

Revised July 16, 2010

Submit one copy to appropriate

District Office

Farmington Field Office
Bureau of Land Management AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045- 3841B		² Pool Code 71599/72319		³ Pool Name BASIN DAKOTA / BLANCO MEASVERDE	
⁴ Property Code 31814		⁵ Property Name JACKSON COM			⁶ Well Number 1N
⁷ OGRID No. 217817		⁸ Operator Name CONOCOPHILLIPS COMPANY			⁹ Elevation 6610

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
L	9	28-N	9-W	4	1738	SOUTH	15	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
L	9	28-N	9-W	4	1855	SOUTH	1020	WEST	SAN JUAN

¹² Dedicated Acres 340.52 - DK 272.08 - MV	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-1814 DK	MV NSL 1120 A
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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

WELL FLAG
NAD 83
LAT: 36.674019° N
LONG: 107.803059° W

BOTTOM HOLE
NAD 83
LAT: 36.674334° N
LONG: 107.799634° W

DAKOTA LEASE (340.52)

MESAVERDE LEASE (272.08) (ALL SECTION 9)

SECTION 8
USA NM-01772-A
USA NM-04202

SECTION 9
USA NM-04202
USA NM-04202

LOT 1
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LOT 2
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LOT 402
USA

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

JACKSON COM 1N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.0054				AFE \$:	
Field Name: SAN JUAN		Rig: Aztec Rig 730		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: 36.674012		Longitude: -107.802443		X:	Y:	Section: 09	Range: 009W
Footage X: 15 FWL		Footage Y: 1738 FSL		Elevation: 6610 (FT)		Township: 028N	
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27 Directional:							
Latitude: 36.674327		Longitude: -107.799018		X:	Y:	Section: 09	Range: 009W
Footage X: 1020 FWL		Footage Y: 1855 FSL		Elevation: (FT)		Township: 028N	
Tolerance:							
Location Type: Year Round		Start Date (Est.): 1/1/2013		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6625 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	200	6425		☐			12-1/4 hole. 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 125 cuft. Circulate cement to surface.
OJO ALAMO	1802	4823		☐			
KIRTLAND	1969	4656		☐			
FRUITLAND	2417	4208		☐			Possible Gas
PICTURED CLIFFS	2917	3708		☐			
LEWIS	3071	3554		☐			
HUERFANITO BENTONITE	3510	3115		☐			
CHACRA	3881	2744		☐			
UPPER CLIFF HOUSE	4525	2100		☐			Gas; Cliffhouse is wet
MASSIVE CLIFF HOUSE	4578	2047		☐	533		Gas
MENEFEE	4607	2018		☐			Est. Top Perf - 4807 (1818)
Intermediate Casing	4757	1868		☐		135	8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 1090 cuft. Circulate cement to surface.
POINT LOOKOUT	5219	1406		☐			
MANCOS	5558	1067		☐			
UPPER GALLUP	6395	230		☐			
GREENHORN	7167	-542		☐			
GRANEROS	7233	-608		☐			
TWO WELLS	7295	-670		☐	2009		Gas
PAGUATE	7353	-728		☐			
UPPER CUBERO	7375	-750		☐			
LOWER CUBERO	7385	-760		☐			

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

JACKSON COM 1N

DEVELOPMENT

ENCINAL	7459	-834	☐		TD - 30' below T/ENCN; Est. Btm Perf ~7474' based on offset wells
Total Depth	7489	-864	☐	187	6-1/4" hole, 4-1/2" 11.6 ppf, L-80, LTC casing. Cement w/ 370 cuft. Circulate cement a minimum of 100' inside the previous casing string.

Reference Wells:

Reference Type	Well Name	Comments
Production	Jackson Com 1	28N 9W 9 SW SE
Production	State N1	29N 9W 32 SW SW
Production	State Gas Com BP 1E	29N 9W 32 SE NW SE
Production	Jackson Com 1E	28N 9W 8 SE NE SE

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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Comments:

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Jackson Com #1N
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6625.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6625.0ft (Original Well Elev)
Site:	Other Named Wells	North Reference:	True
Well:	Jackson Com #1N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Jackson Com #1N		
Design:	Plan #1		

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

Well	Jackson Com #1N, S Curve, Short					
Well Position	+N/-S	0.0 ft	Northing:	2,064,595.53 ft	Latitude:	36° 40' 26.447 N
	+E/-W	0.0 ft	Easting:	509,058.87 ft	Longitude:	107° 48' 8.794 W
Position Uncertainty	3.0 ft	Wellhead Elevation:	ft	Ground Level:	6,610.0 ft	

Wellbore	Jackson Com #1N				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2010	5/26/2011	9.89	63.43	50,691

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	83.49

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	
450.0	0.00	0.00	450.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,483.6	20.67	83.49	1,461.4	20.9	183.3	2.00	2.00	0.00	83.49	
3,476.4	20.67	83.49	3,325.8	100.7	882.2	0.00	0.00	0.00	0.00	
4,165.4	0.00	0.00	4,000.0	114.6	1,004.4	3.00	-3.00	0.00	180.00	Jackson Com #1N - P
4,922.4	0.00	0.00	4,757.0	114.6	1,004.4	0.00	0.00	0.00	0.00	Jackson Com #1N- IC
7,654.4	0.00	0.00	7,489.0	114.6	1,004.4	0.00	0.00	0.00	0.00	Jackson Com #1N-PC

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Jackson Com #1N
Company:	ConocoPhillips SJBU	TVD Reference:	WELL @ 6625.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6625.0ft (Original Well Elev)
Site:	Other Named Wells	North Reference:	True
Well:	Jackson Com #1N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Jackson Com #1N		
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
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
450.0	0.00	0.00	450.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	1.00	83.49	500.0	0.0	0.4	0.4	2.00	2.00	0.00
600.0	3.00	83.49	599.9	0.4	3.9	3.9	2.00	2.00	0.00
700.0	5.00	83.49	699.7	1.2	10.8	10.9	2.00	2.00	0.00
800.0	7.00	83.49	799.1	2.4	21.2	21.4	2.00	2.00	0.00
900.0	9.00	83.49	898.2	4.0	35.0	35.3	2.00	2.00	0.00
1,000.0	11.00	83.49	996.6	6.0	52.3	52.6	2.00	2.00	0.00
1,100.0	13.00	83.49	1,094.4	8.3	73.0	73.4	2.00	2.00	0.00
1,200.0	15.00	83.49	1,191.5	11.1	97.0	97.6	2.00	2.00	0.00
1,300.0	17.00	83.49	1,287.6	14.2	124.4	125.2	2.00	2.00	0.00
1,400.0	19.00	83.49	1,382.7	17.7	155.1	156.1	2.00	2.00	0.00
1,483.6	20.67	83.49	1,461.4	20.9	183.3	184.5	2.00	2.00	0.00
1,500.0	20.67	83.49	1,476.7	21.6	189.0	190.2	0.00	0.00	0.00
1,600.0	20.67	83.49	1,570.2	25.6	224.1	225.5	0.00	0.00	0.00
1,700.0	20.67	83.49	1,663.8	29.6	259.2	260.8	0.00	0.00	0.00
1,800.0	20.67	83.49	1,757.3	33.6	294.2	296.1	0.00	0.00	0.00
1,847.7	20.67	83.49	1,802.0	35.5	311.0	313.0	0.00	0.00	0.00
Ojo Alamo									
1,900.0	20.67	83.49	1,850.9	37.6	329.3	331.4	0.00	0.00	0.00
2,000.0	20.67	83.49	1,944.5	41.6	364.4	366.7	0.00	0.00	0.00
2,026.2	20.67	83.49	1,969.0	42.6	373.6	376.0	0.00	0.00	0.00
Kirtland									
2,100.0	20.67	83.49	2,038.0	45.6	399.5	402.1	0.00	0.00	0.00
2,200.0	20.67	83.49	2,131.6	49.6	434.5	437.4	0.00	0.00	0.00
2,300.0	20.67	83.49	2,225.2	53.6	469.6	472.7	0.00	0.00	0.00
2,400.0	20.67	83.49	2,318.7	57.6	504.7	508.0	0.00	0.00	0.00
2,500.0	20.67	83.49	2,412.3	61.6	539.8	543.3	0.00	0.00	0.00
2,505.0	20.67	83.49	2,417.0	61.8	541.5	545.0	0.00	0.00	0.00
Fruitland									
2,600.0	20.67	83.49	2,505.8	65.6	574.8	578.6	0.00	0.00	0.00
2,700.0	20.67	83.49	2,599.4	69.6	609.9	613.9	0.00	0.00	0.00
2,800.0	20.67	83.49	2,693.0	73.6	645.0	649.2	0.00	0.00	0.00
2,900.0	20.67	83.49	2,786.5	77.6	680.1	684.5	0.00	0.00	0.00
3,000.0	20.67	83.49	2,880.1	81.6	715.1	719.8	0.00	0.00	0.00
3,039.5	20.67	83.49	2,917.0	83.2	729.0	733.7	0.00	0.00	0.00
Pictured Cliffs									
3,100.0	20.67	83.49	2,973.6	85.6	750.2	755.1	0.00	0.00	0.00
3,200.0	20.67	83.49	3,067.2	89.6	785.3	790.4	0.00	0.00	0.00
3,204.1	20.67	83.49	3,071.0	89.8	786.7	791.8	0.00	0.00	0.00
Lewis									
3,300.0	20.67	83.49	3,160.8	93.6	820.4	825.7	0.00	0.00	0.00
3,400.0	20.67	83.49	3,254.3	97.6	855.4	861.0	0.00	0.00	0.00
3,476.4	20.67	83.49	3,325.8	100.7	882.2	887.9	0.00	0.00	0.00
3,500.0	19.96	83.49	3,347.9	101.6	890.4	896.2	3.00	-3.00	0.00
3,600.0	16.96	83.49	3,442.8	105.2	921.8	927.8	3.00	-3.00	0.00
3,669.9	14.87	83.49	3,510.0	107.4	940.9	947.0	3.00	-3.00	0.00
Huerfano Bentonite									

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Jackson Com #1N
Company:	ConocoPhillips SJBU	TVD Reference:	WELL @ 6625.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6625.0ft (Original Well Elev)
Site:	Other Named Wells	North Reference:	True
Well:	Jackson Com #1N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Jackson Com #1N		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
3,700.0	13.96	83.49	3,539.2	108.2	948.3	954.5	3.00	-3.00	0.00
3,800.0	10.96	83.49	3,636.8	110.6	969.8	976.1	3.00	-3.00	0.00
3,900.0	7.96	83.49	3,735.4	112.5	986.1	992.5	3.00	-3.00	0.00
4,000.0	4.96	83.49	3,834.8	113.8	997.3	1,003.8	3.00	-3.00	0.00
4,046.4	3.57	83.49	3,881.0	114.2	1,000.7	1,007.2	3.00	-3.00	0.00
Chacra									
4,100.0	1.96	83.49	3,934.6	114.5	1,003.3	1,009.8	3.00	-3.00	0.00
4,165.4	0.00	0.00	4,000.0	114.6	1,004.4	1,010.9	3.00	-3.00	-127.58
Jackson Com #1N - PrelCP									
4,200.0	0.00	0.00	4,034.6	114.6	1,004.4	1,010.9	0.00	0.00	0.00
4,300.0	0.00	0.00	4,134.6	114.6	1,004.4	1,010.9	0.00	0.00	0.00
4,400.0	0.00	0.00	4,234.6	114.6	1,004.4	1,010.9	0.00	0.00	0.00
4,500.0	0.00	0.00	4,334.6	114.6	1,004.4	1,010.9	0.00	0.00	0.00
4,600.0	0.00	0.00	4,434.6	114.6	1,004.4	1,010.9	0.00	0.00	0.00
4,690.4	0.00	0.00	4,525.0	114.6	1,004.4	1,010.9	0.00	0.00	0.00
Upper Cliff House									
4,700.0	0.00	0.00	4,534.6	114.6	1,004.4	1,010.9	0.00	0.00	0.00
4,743.4	0.00	0.00	4,578.0	114.6	1,004.4	1,010.9	0.00	0.00	0.00
Massive Cliff House									
4,772.4	0.00	0.00	4,607.0	114.6	1,004.4	1,010.9	0.00	0.00	0.00
Menefee									
4,800.0	0.00	0.00	4,634.6	114.6	1,004.4	1,010.9	0.00	0.00	0.00
4,900.0	0.00	0.00	4,734.6	114.6	1,004.4	1,010.9	0.00	0.00	0.00
4,922.4	0.00	0.00	4,757.0	114.6	1,004.4	1,010.9	0.00	0.00	0.00
Intermediate - Jackson Com #1N- ICP									
5,000.0	0.00	0.00	4,834.6	114.6	1,004.4	1,010.9	0.00	0.00	0.00
5,100.0	0.00	0.00	4,934.6	114.6	1,004.4	1,010.9	0.00	0.00	0.00
5,200.0	0.00	0.00	5,034.6	114.6	1,004.4	1,010.9	0.00	0.00	0.00
5,300.0	0.00	0.00	5,134.6	114.6	1,004.4	1,010.9	0.00	0.00	0.00
5,384.4	0.00	0.00	5,219.0	114.6	1,004.4	1,010.9	0.00	0.00	0.00
Point Lookout									
5,400.0	0.00	0.00	5,234.6	114.6	1,004.4	1,010.9	0.00	0.00	0.00
5,500.0	0.00	0.00	5,334.6	114.6	1,004.4	1,010.9	0.00	0.00	0.00
5,600.0	0.00	0.00	5,434.6	114.6	1,004.4	1,010.9	0.00	0.00	0.00
5,700.0	0.00	0.00	5,534.6	114.6	1,004.4	1,010.9	0.00	0.00	0.00
5,723.4	0.00	0.00	5,558.0	114.6	1,004.4	1,010.9	0.00	0.00	0.00
Mancos									
5,800.0	0.00	0.00	5,634.6	114.6	1,004.4	1,010.9	0.00	0.00	0.00
5,900.0	0.00	0.00	5,734.6	114.6	1,004.4	1,010.9	0.00	0.00	0.00
6,000.0	0.00	0.00	5,834.6	114.6	1,004.4	1,010.9	0.00	0.00	0.00
6,100.0	0.00	0.00	5,934.6	114.6	1,004.4	1,010.9	0.00	0.00	0.00
6,200.0	0.00	0.00	6,034.6	114.6	1,004.4	1,010.9	0.00	0.00	0.00
6,300.0	0.00	0.00	6,134.6	114.6	1,004.4	1,010.9	0.00	0.00	0.00
6,400.0	0.00	0.00	6,234.6	114.6	1,004.4	1,010.9	0.00	0.00	0.00
6,500.0	0.00	0.00	6,334.6	114.6	1,004.4	1,010.9	0.00	0.00	0.00
6,560.4	0.00	0.00	6,395.0	114.6	1,004.4	1,010.9	0.00	0.00	0.00
Upper Gallup									
6,600.0	0.00	0.00	6,434.6	114.6	1,004.4	1,010.9	0.00	0.00	0.00
6,700.0	0.00	0.00	6,534.6	114.6	1,004.4	1,010.9	0.00	0.00	0.00
6,800.0	0.00	0.00	6,634.6	114.6	1,004.4	1,010.9	0.00	0.00	0.00
6,900.0	0.00	0.00	6,734.6	114.6	1,004.4	1,010.9	0.00	0.00	0.00
7,000.0	0.00	0.00	6,834.6	114.6	1,004.4	1,010.9	0.00	0.00	0.00
7,100.0	0.00	0.00	6,934.6	114.6	1,004.4	1,010.9	0.00	0.00	0.00

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Jackson Com #1N
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6625.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6625.0ft (Original Well Elev)
Site:	Other Named Wells	North Reference:	True
Well:	Jackson Com #1N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Jackson Com #1N		
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)
7,200.0	0.00	0.00	7,034.6	114.6	1,004.4	1,010.9	0.00	0.00	0.00
7,300.0	0.00	0.00	7,134.6	114.6	1,004.4	1,010.9	0.00	0.00	0.00
7,332.4	0.00	0.00	7,167.0	114.6	1,004.4	1,010.9	0.00	0.00	0.00
Greenhorn									
7,398.4	0.00	0.00	7,233.0	114.6	1,004.4	1,010.9	0.00	0.00	0.00
Graneros									
7,400.0	0.00	0.00	7,234.6	114.6	1,004.4	1,010.9	0.00	0.00	0.00
7,460.4	0.00	0.00	7,295.0	114.6	1,004.4	1,010.9	0.00	0.00	0.00
Two Wells									
7,500.0	0.00	0.00	7,334.6	114.6	1,004.4	1,010.9	0.00	0.00	0.00
7,518.4	0.00	0.00	7,353.0	114.6	1,004.4	1,010.9	0.00	0.00	0.00
Paguate									
7,540.4	0.00	0.00	7,375.0	114.6	1,004.4	1,010.9	0.00	0.00	0.00
Upper Cubero									
7,550.4	0.00	0.00	7,385.0	114.6	1,004.4	1,010.9	0.00	0.00	0.00
Lower Cubero									
7,600.0	0.00	0.00	7,434.6	114.6	1,004.4	1,010.9	0.00	0.00	0.00
7,624.4	0.00	0.00	7,459.0	114.6	1,004.4	1,010.9	0.00	0.00	0.00
Encinal									
7,654.4	0.00	0.00	7,489.0	114.6	1,004.4	1,010.9	0.00	0.00	0.00
Production - Jackson Com #1N-PCP									

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
Jackson Com #1N - Prel	0.00	0.00	4,000.0	114.6	1,004.4	2,064,710.45	510,063.15	36° 40' 27.580 N	107° 47' 56.465 W
- plan hits target center									
- Point									
Jackson Com #1N- ICP	0.00	0.00	4,757.0	114.6	1,004.4	2,064,710.46	510,063.13	36° 40' 27.580 N	107° 47' 56.465 W
- plan hits target center									
- Point									
Jackson Com #1N-PCP	0.00	0.00	7,489.0	114.6	1,004.4	2,064,710.48	510,063.13	36° 40' 27.580 N	107° 47' 56.465 W
- plan hits target center									
- Point									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
4,922.4	4,757.0	Intermediate	7	8-3/4	
7,654.4	7,489.0	Production	4-1/2	6-1/4	
200.0	200.0	Surface	9-5/8	12-1/4	

ConocoPhillips or its affiliates
Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Jackson Com #1N
Company:	ConocoPhillips SJBU	TVD Reference:	WELL @ 6625.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6625.0ft (Original Well Elev)
Site:	Other Named Wells:	North Reference:	True
Well:	Jackson Com #1N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Jackson Com #1N		
Design:	Plan #1		

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,772.4	4,607.0	Menefee		0.00	
4,743.4	4,578.0	Massive Cliff House		0.00	
7,518.4	7,353.0	Paguate		0.00	
7,398.4	7,233.0	Graneros		0.00	
3,669.9	3,510.0	Huerfano Bentonite		0.00	
7,624.4	7,459.0	Encinal		0.00	
3,039.5	2,917.0	Pictured Cliffs		0.00	
1,847.7	1,802.0	Ojo Alamo		0.00	
5,384.4	5,219.0	Point Lookout		0.00	
7,540.4	7,375.0	Upper Cubero		0.00	
6,560.4	6,395.0	Upper Gallup		0.00	
5,723.4	5,558.0	Mancos		0.00	
2,505.0	2,417.0	Fruitland		0.00	
4,690.4	4,525.0	Upper Cliff House		0.00	
7,460.4	7,295.0	Two Wells		0.00	
2,026.2	1,969.0	Kirtland		0.00	
3,204.1	3,071.0	Lewis		0.00	
7,550.4	7,385.0	Lower Cubero		0.00	
7,332.4	7,167.0	Greenhorn		0.00	
4,046.4	3,881.0	Chacra		0.00	

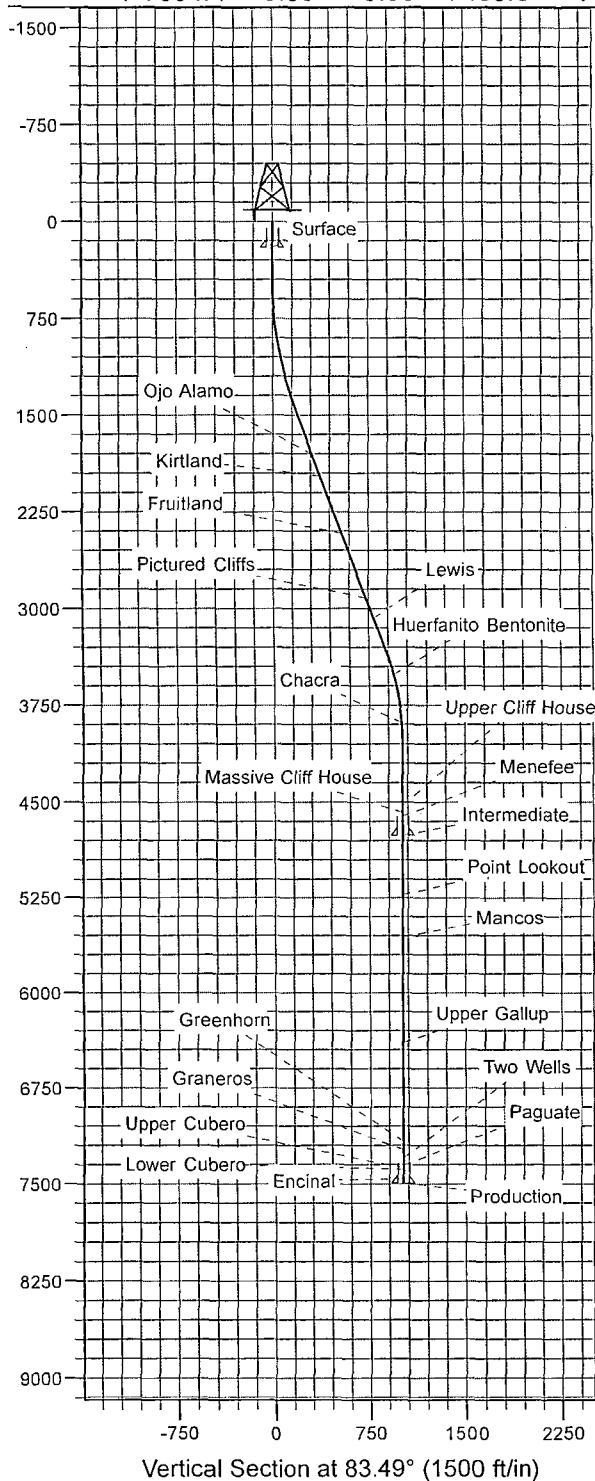
LL @ 6625.0ft (Original Well Elev)
 ound Elevation 6610.0
 Reference Lat: 36° 40' 26.447 N
 eference Long: 107° 48' 8.794 W

Site: Other Named Wells
 Well: Jackson Com #1N
 Wellbore: Jackson Com #1N
 Design: Plan #1



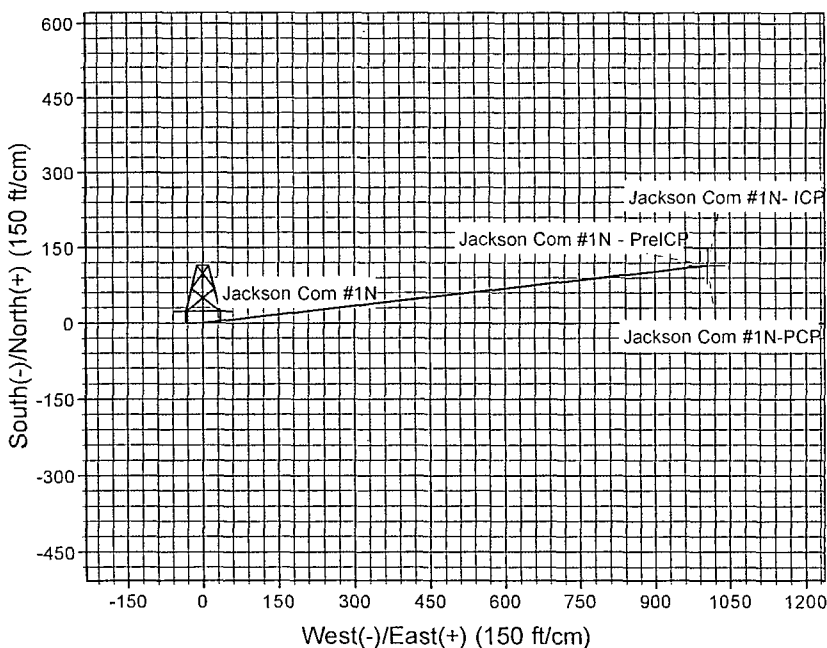
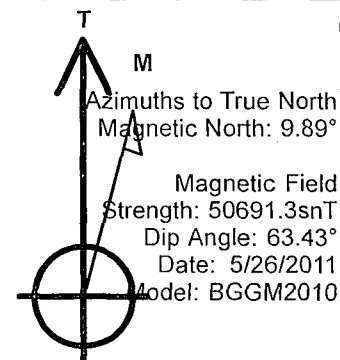
SECTION DETAILS

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	450.0	0.00	0.00	450.0	0.0	0.0	0.00	0.00	0.0	
3	1483.6	20.67	83.49	1461.4	20.9	183.3	2.00	83.49	184.5	
4	3476.4	20.67	83.49	3325.8	100.7	882.2	0.00	0.00	887.9	
5	4165.4	0.00	0.00	4000.0	114.6	1004.4	3.00	180.00	1010.9	Jackson Com #1N - PreICP
6	4922.4	0.00	0.00	4757.0	114.6	1004.4	0.00	0.00	1010.9	Jackson Com #1N- ICP
7	7654.4	0.00	0.00	7489.0	114.6	1004.4	0.00	0.00	1010.9	Jackson Com #1N-PCP



FORMATION TOP DETAILS

TVDPATH	MDPATH	Formation
1802.0	1847.7	Ojo Alamo
1969.0	2026.2	Kirtland
2417.0	2505.0	Fruitland
2917.0	3039.5	Pictured Cliffs
3071.0	3204.1	Lewis
3510.0	3669.9	Huerfano Bentonite
3881.0	4046.4	Chacra
4525.0	4690.4	Upper Cliff House
4578.0	4743.4	Massive Cliff House
4607.0	4772.4	Menefee
5219.0	5384.4	Point Lookout
5558.0	5723.4	Mancos
6395.0	6560.4	Upper Gallup
7167.0	7332.4	Greenhorn
7233.0	7398.4	Graneros
7295.0	7460.4	Two Wells
7353.0	7518.4	Paguate
7375.0	7540.4	Upper Cubero
7385.0	7550.4	Lower Cubero
7459.0	7624.4	Encinal



CONOCOPHILLIPS COMPANY
JACKSON COM 1N
1738' FSL, 15' FWL
SECTION 9, T-28-N, R-9-W, N.M.P.M.,
SAN JUAN COUNTY, NEW MEXICO
NAD 83 LAT.: 36.674019° N LONG.: 107.803059°W
GROUND ELEV.: 6610 NAVD88
NO NEW ACCESS

FROM INTERSECTION OF HWY. 550 & HWY. 64 (SUNDIAL CONOCO) IN
BLOOMFIELD, NM.

- GO SOUTH 1.1 MI. TO C.R. 4990, SULLIVAN ROAD AND TURN LEFT (EAST).
- GO 15.0 MI. EAST INTO LARGO CANYON TO THE INTERSECTION OF C.R. 4450 AND C.R. 4990 (5 MILE BRIDGE)
- CONTINUE 0.5 MI. EAST. TURN RIGHT INTO CANYON.
- GO 1.9 MI. SOUTHWEST AND TURN RIGHT.
- GO 1.0 MI. WEST & UP STEEP GRADE.. TURN LEFT.
- GO 0.3 MI. TURN RIGHT.
- GO 1.3 MI. NORTH & WEST, WINDING UP STEEP GRADE, TO WELL LOCATION FOR ENERGEN 29-9 #1.
- CONTINUE 0.3 MI. WEST TO CONOCO LOCATION, JACKSON COM 1E. NEW WELL STAKED AS TWIN HERE.