

District I1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720**District II**811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720**District III**1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170**District IV**1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462**State of New Mexico
Energy, Minerals and Natural
Resources****Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505**Form C-101
Revised July 18, 2013

Permit 185573

OIL CONS. DIV DIST. 3

MAY 07 2014

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address CONOCOPHILLIPS COMPANY 3401 E. 30th Street Farmington, NM 87402		2. OGRID Number 217817
4. Property Code 39272		5. Property Name PUBCO FEDERAL GAS COM
		3. API Number 30 045-35448
		6. Well No. 001N

7. Surface Location

UL - Lot G	Section 14	Township 30N	Range 11W	Lot Idn U	Feet From 2336	N/S Line N	Feet From 1667	E/W Line E	County SAN JUAN
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8. Proposed Bottom Hole Location

UL - Lot I	Section 14	Township 30N	Range 11W	Lot Idn I	Feet From 1900	N/S Line S	Feet From 710	E/W Line E	County San Juan
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9. Pool Information

BASIN DAKOTA (PRORATED GAS)	71599
BLANCO-MESAVERDE (PRORATED GAS)	72319

Additional Well Information

11. Work Type New Well	12. Well Type GAS	13. Cable/Rotary	14. Lease Type F & O State	15. Ground Level Elevation 5960
16. Multiple Y	17. Proposed Depth 7049	18. Formation Dakota Formation	19. Contractor	20. Spud Date
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☐ We will be using a closed-loop system in lieu of lined pits**21. Proposed Casing and Cement Program**

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	12.25	9.625	32.3	200	121	0
Int1	8.75	7	23	4405	992	0
Prod	6.25	4.5	11.6	7049	350	4305

Casing/Cement Program: Additional Comments

This is a Type 3 as indicated in the BR/COPC Master Drilling Plan. Cement volumes are indicated in cubic feet instead of sacks of cement. The Production casing cement will be circulated a minimum of 100' inside the Intermediate casing string. The DHC will be submitted after the APD is approved.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	2000	2000	Schafer

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.
I further certify I have complied with 19.15.14.9 (A) NMAC ☐ and/or 19.15.14.9 (B) NMAC ☐, if applicable.

Signature: Arleen White

Printed Name: Arleen White

Title: Staff Regulatory Tech

Email Address: arleen.r.white@conocophillips.com

Date: 5/6/14

Phone: 326 9517

OIL CONSERVATION DIVISION

Approved By: *Charles Leri* 5-30-2014
SUPERVISOR DISTRICT #3

Title: Approved Date: 5-30-14

Expiration Date: 5-30-16

Conditions of Approval Attached

Hold C104

for Directional Survey
and "As Drilled" plat

AV

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Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35448		² Pool Code 72319 / 71599		³ Pool Name BLANCO MESAVERDE / BASIN DAKOTA	
⁴ Property Code 39272		⁵ Property Name PUBCO FEDERAL GAS COM			⁶ Well Number 1N
⁷ OGRID No. 217817		⁸ Operator Name CONOCOPHILLIPS COMPANY			⁹ Elevation 5960

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
G	14	30-N	11-W	6	2336	NORTH	1667	EAST	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
I	14	30-N	11-W		1900	SOUTH	710	EAST	SAN JUAN

¹² Dedicated Acres S/2 MV(313.81) S/2 DK(320)	¹³ Joint or Infill 313.81	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.

¹⁶ BASIS OF BEARING IS THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, WEST ZONE, NAD83 AS DETERMINED BY GPS OBSERVATION AND NGS/OPUS SOLUTION.		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 working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division: Signature: <u>Arleen White</u> Date: <u>5/6/14</u> Printed Name: <u>Arleen White</u> E-mail Address: <u>arleen.r.white@conocophillips.com</u>
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. Date of Survey: <u>08/27/2012</u> Signature and Seal of Professional Surveyor: 		

Permit Comments

Operator: CONOCOPHILLIPS COMPANY , 217817

Well: PUBCO FEDERAL GAS COM #001N

API: 30-045-35448

Created By	Comment	Comment Date
whoppe	Patsy Clugston provided information for the dedicated acreage Provided an operating agreement and acreage description via email for having a different operator in the same dedicated acreage Indicated the city of Aztec had been notified. BLM (Jim Lovato) indicated that BLM would defer to OCC for the subsurface right of way since the minerals produced were from fee land	1/18/2013

Permit Conditions of Approval

Operator: CONOCOPHILLIPS COMPANY , 217817

Well: PUBCO FEDERAL GAS COM #001N

API: 30-045-35448

OCD Reviewer	Condition
whcpe	Will require a directional survey with the C-104
whcpe	require an after drilled plot

REFERENCE INFORMATION

RKB @ 5975.0usft (Original Well Elev)
Ground Elevation 5960.0
Reference Lat: 36° 48' 45.683 N
Reference Long: 107° 57' 23.972 W

Project: San Juan Basin - New Mexico West V
Site: Other Named Wells
Well: Pubco Federal Gas Com 1N
Wellbore: Primary Wellbore
Design: APD Design

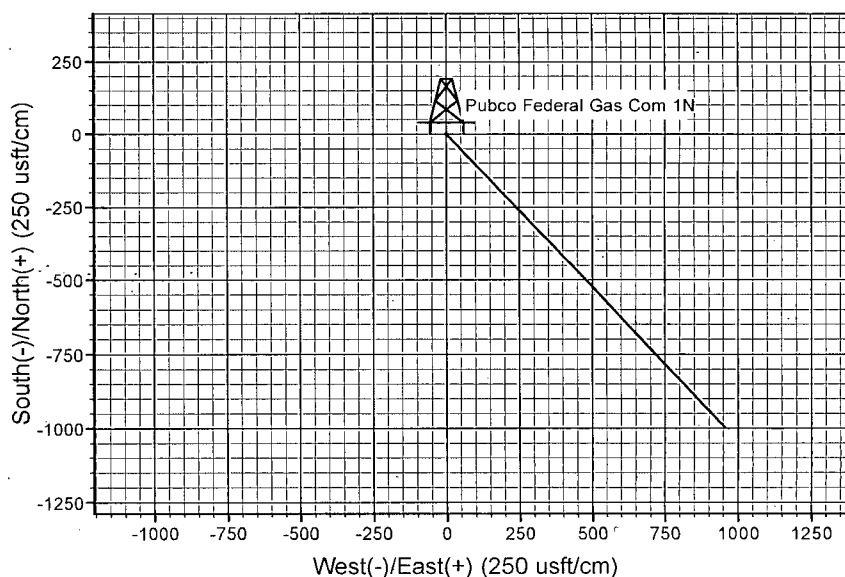
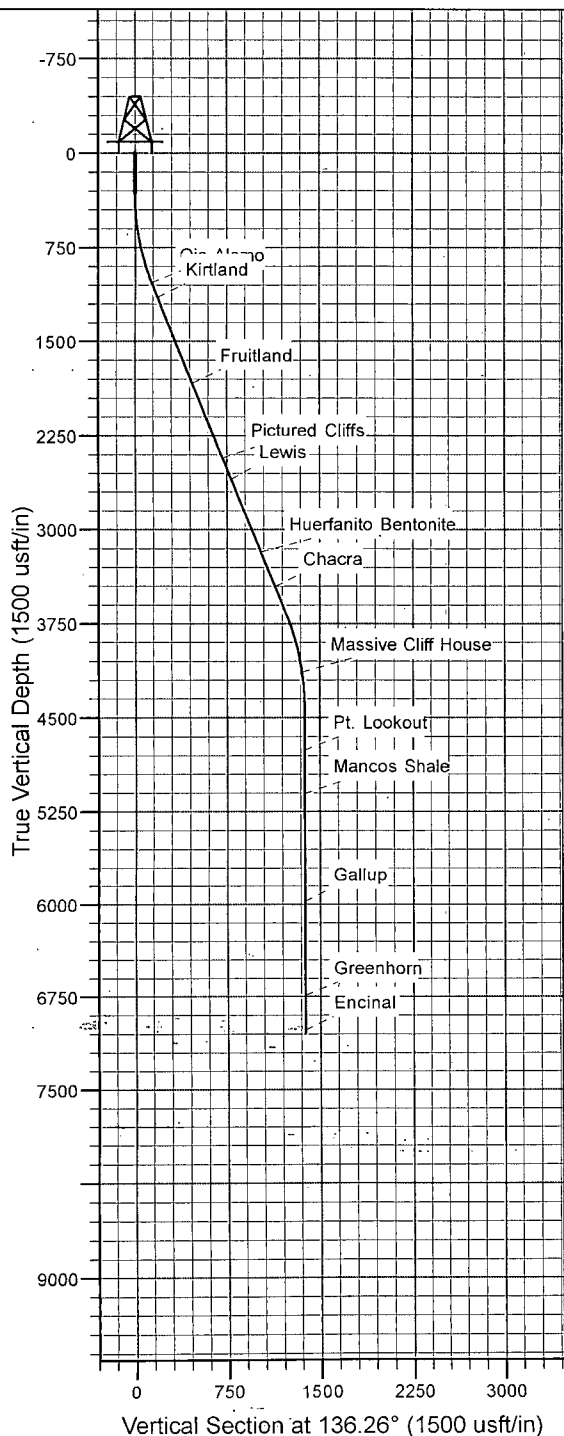
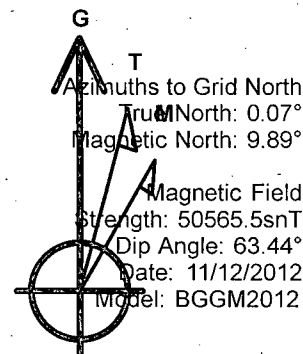


SECTION DETAILS

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	1071.7	22.55	136.26	1052.5	-105.5	101.0	3.00	136.26	146.0	
4	3908.7	22.55	136.26	3672.5	-891.6	853.2	0.00	0.00	1234.1	
5	4660.4	0.00	0.00	4405.0	-997.1	954.2	3.00	180.00	1380.1	PFGC 1N ICP
6	7304.4	0.00	0.00	7049.0	-997.1	954.2	0.00	0.00	1380.1	PFGC 1N PCP

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1030.0	1047.5	Ojo Alamo
1145.0	1171.9	Kirtland
1832.0	1915.8	Fruitland
2427.0	2560.1	Pictured Cliffs
2598.0	2745.2	Lewis
3177.0	3372.2	Huerfano Ben
3454.0	3672.1	Chacra
4136.0	4390.6	Massive Cliff H
4257.0	4512.3	Menefee
4758.0	5013.4	Pt. Lookout
5105.0	5360.4	Mancos Shale
5976.0	6231.4	Gallup
6740.0	6995.4	Greenhorn
6795.0	7050.4	Graneros
6851.0	7106.4	Two Wells
6930.0	7185.4	Pauguate
6962.0	7217.4	Cubero
7019.0	7274.4	Encinal
7049.0	7304.4	TD



ConocoPhillips SJB

San Juan Basin - New Mexico West Wells

Other Named Wells

Pubco Federal Gas Com 1N

Primary Wellbore

Plan: APD Design

Standard Planning Report

29 November, 2012

OIL CONS. DIV DIST. 3

MAY 19 2014

ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Pubco Federal Gas Com 1N
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 5975.0usft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	RKB @ 5975.0usft (Original Well Elev)
Site:	Other Named Wells	North Reference:	Grid
Well:	Pubco Federal Gas Com 1N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Primary Wellbore		
Design:	APD Design		

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	Pubco Federal Gas Com 1N			
Well Position	+N/-S	0.0 usft	Northing:	2,115,101.81 usft
	+E/-W	0.0 usft	Easting:	463,898.88 usft
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft
			Ground Level:	5,960.0 usft

Wellbore	Primary Wellbore				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2012	11/12/2012	9.81	63.44	50,566

Design	APD Design			
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	136.26

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	
320.0	0.00	0.00	320.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,071.7	22.55	136.26	1,052.5	-105.5	101.0	3.00	3.00	0.00	136.26	
3,908.7	22.55	136.26	3,672.5	-891.6	853.2	0.00	0.00	0.00	0.00	
4,660.4	0.00	0.00	4,405.0	-997.1	954.2	3.00	-3.00	0.00	180.00	PFGC 1N ICP
7,304.4	0.00	0.00	7,049.0	-997.1	954.2	0.00	0.00	0.00	0.00	PFGC 1N PCP

ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Pubco Federal Gas Com 1N
Company:	ConocoPhillips SJBU	TVD Reference:	RKB @ 5975.0usft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	RKB @ 5975.0usft (Original Well Elev)
Site:	Other Named Wells	North Reference:	Grid
Well:	Pubco Federal Gas Com 1N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Primary Wellbore		
Design:	APD Design		

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
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
320.0	0.00	0.00	320.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	2.40	136.26	400.0	-1.2	1.2	1.7	3.00	3.00	0.00
500.0	5.40	136.26	499.7	-6.1	5.9	8.5	3.00	3.00	0.00
600.0	8.40	136.26	599.0	-14.8	14.2	20.5	3.00	3.00	0.00
700.0	11.40	136.26	697.5	-27.2	26.1	37.7	3.00	3.00	0.00
800.0	14.40	136.26	795.0	-43.3	41.5	60.0	3.00	3.00	0.00
900.0	17.40	136.26	891.1	-63.1	60.4	87.4	3.00	3.00	0.00
1,000.0	20.40	136.26	985.7	-86.5	82.8	119.8	3.00	3.00	0.00
1,047.5	21.82	136.26	1,030.0	-98.9	94.6	136.9	3.00	3.00	0.00
Ojo Alamo									
1,071.7	22.55	136.26	1,052.5	-105.5	101.0	146.0	3.00	3.00	0.00
1,100.0	22.55	136.26	1,078.6	-113.3	108.5	156.9	0.00	0.00	0.00
1,171.9	22.55	136.26	1,145.0	-133.3	127.5	184.5	0.00	0.00	0.00
Kirtland									
1,200.0	22.55	136.26	1,170.9	-141.1	135.0	195.2	0.00	0.00	0.00
1,300.0	22.55	136.26	1,263.3	-168.8	161.5	233.6	0.00	0.00	0.00
1,400.0	22.55	136.26	1,355.6	-196.5	188.0	271.9	0.00	0.00	0.00
1,500.0	22.55	136.26	1,448.0	-224.2	214.5	310.3	0.00	0.00	0.00
1,600.0	22.55	136.26	1,540.3	-251.9	241.1	348.6	0.00	0.00	0.00
1,700.0	22.55	136.26	1,632.7	-279.6	267.6	387.0	0.00	0.00	0.00
1,800.0	22.55	136.26	1,725.1	-307.3	294.1	425.3	0.00	0.00	0.00
1,900.0	22.55	136.26	1,817.4	-335.0	320.6	463.7	0.00	0.00	0.00
1,915.8	22.55	136.26	1,832.0	-339.4	324.8	469.8	0.00	0.00	0.00
Fruitland									
2,000.0	22.55	136.26	1,909.8	-362.7	347.1	502.0	0.00	0.00	0.00
2,100.0	22.55	136.26	2,002.1	-390.4	373.6	540.4	0.00	0.00	0.00
2,200.0	22.55	136.26	2,094.5	-418.1	400.2	578.7	0.00	0.00	0.00
2,300.0	22.55	136.26	2,186.8	-445.8	426.7	617.1	0.00	0.00	0.00
2,400.0	22.55	136.26	2,279.2	-473.5	453.2	655.4	0.00	0.00	0.00
2,500.0	22.55	136.26	2,371.5	-501.2	479.7	693.8	0.00	0.00	0.00
2,560.1	22.55	136.26	2,427.0	-517.9	495.6	716.8	0.00	0.00	0.00
Pictured Cliffs									
2,600.0	22.55	136.26	2,463.9	-529.0	506.2	732.2	0.00	0.00	0.00
2,700.0	22.55	136.26	2,556.2	-556.7	532.7	770.5	0.00	0.00	0.00
2,745.2	22.55	136.26	2,598.0	-569.2	544.7	787.8	0.00	0.00	0.00
Lewis									
2,800.0	22.55	136.26	2,648.6	-584.4	559.3	808.9	0.00	0.00	0.00
2,900.0	22.55	136.26	2,740.9	-612.1	585.8	847.2	0.00	0.00	0.00
3,000.0	22.55	136.26	2,833.3	-639.8	612.3	885.6	0.00	0.00	0.00
3,100.0	22.55	136.26	2,925.6	-667.5	638.8	923.9	0.00	0.00	0.00
3,200.0	22.55	136.26	3,018.0	-695.2	665.3	962.3	0.00	0.00	0.00
3,300.0	22.55	136.26	3,110.4	-722.9	691.8	1,000.6	0.00	0.00	0.00
3,372.2	22.55	136.26	3,177.0	-742.9	711.0	1,028.3	0.00	0.00	0.00
Huerfano Bentonite									
3,400.0	22.55	136.26	3,202.7	-750.6	718.3	1,039.0	0.00	0.00	0.00
3,500.0	22.55	136.26	3,295.1	-778.3	744.9	1,077.3	0.00	0.00	0.00
3,600.0	22.55	136.26	3,387.4	-806.0	771.4	1,115.7	0.00	0.00	0.00
3,672.1	22.55	136.26	3,454.0	-826.0	790.5	1,143.3	0.00	0.00	0.00
Chacra									

ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Pubco Federal Gas Com 1N
Company:	ConocoPhillips SJBU	TVD Reference:	RKB @ 5975.0usft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	RKB @ 5975.0usft (Original Well Elev)
Site:	Other Named Wells	North Reference:	Grid
Well:	Pubco Federal Gas Com 1N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Primary Wellbore		
Design:	APD Design		

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	22.55	136.26	3,479.8	-833.7	797.9	1,154.0	0.00	0.00	0.00	
3,800.0	22.55	136.26	3,572.1	-861.4	824.4	1,192.4	0.00	0.00	0.00	
3,900.0	22.55	136.26	3,664.5	-889.1	850.9	1,230.7	0.00	0.00	0.00	
3,908.7	22.55	136.26	3,672.5	-891.6	853.2	1,234.1	0.00	0.00	0.00	
4,000.0	19.81	136.26	3,757.6	-915.4	876.0	1,267.0	3.00	-3.00	0.00	
4,100.0	16.81	136.26	3,852.6	-938.1	897.8	1,298.5	3.00	-3.00	0.00	
4,200.0	13.81	136.26	3,949.0	-957.2	916.0	1,324.9	3.00	-3.00	0.00	
4,300.0	10.81	136.26	4,046.7	-972.6	930.8	1,346.2	3.00	-3.00	0.00	
4,390.6	8.10	136.26	4,136.0	-983.3	941.1	1,361.1	3.00	-3.00	0.00	
Massive Cliff House										
4,400.0	7.81	136.26	4,145.4	-984.3	942.0	1,362.4	3.00	-3.00	0.00	
4,500.0	4.81	136.26	4,244.7	-992.2	949.6	1,373.4	3.00	-3.00	0.00	
4,512.3	4.44	136.26	4,257.0	-992.9	950.2	1,374.4	3.00	-3.00	0.00	
Menefee										
4,600.0	1.81	136.26	4,344.6	-996.4	953.6	1,379.1	3.00	-3.00	0.00	
4,660.4	0.00	0.00	4,405.0	-997.1	954.2	1,380.1	3.00	-3.00	0.00	
4,700.0	0.00	0.00	4,444.6	-997.1	954.2	1,380.1	0.00	0.00	0.00	
4,800.0	0.00	0.00	4,544.6	-997.1	954.2	1,380.1	0.00	0.00	0.00	
4,900.0	0.00	0.00	4,644.6	-997.1	954.2	1,380.1	0.00	0.00	0.00	
5,000.0	0.00	0.00	4,744.6	-997.1	954.2	1,380.1	0.00	0.00	0.00	
5,013.4	0.00	0.00	4,758.0	-997.1	954.2	1,380.1	0.00	0.00	0.00	
Pt. Lookout										
5,100.0	0.00	0.00	4,844.6	-997.1	954.2	1,380.1	0.00	0.00	0.00	
5,200.0	0.00	0.00	4,944.6	-997.1	954.2	1,380.1	0.00	0.00	0.00	
5,300.0	0.00	0.00	5,044.6	-997.1	954.2	1,380.1	0.00	0.00	0.00	
5,360.4	0.00	0.00	5,105.0	-997.1	954.2	1,380.1	0.00	0.00	0.00	
Mancos Shale										
5,400.0	0.00	0.00	5,144.6	-997.1	954.2	1,380.1	0.00	0.00	0.00	
5,500.0	0.00	0.00	5,244.6	-997.1	954.2	1,380.1	0.00	0.00	0.00	
5,600.0	0.00	0.00	5,344.6	-997.1	954.2	1,380.1	0.00	0.00	0.00	
5,700.0	0.00	0.00	5,444.6	-997.1	954.2	1,380.1	0.00	0.00	0.00	
5,800.0	0.00	0.00	5,544.6	-997.1	954.2	1,380.1	0.00	0.00	0.00	
5,900.0	0.00	0.00	5,644.6	-997.1	954.2	1,380.1	0.00	0.00	0.00	
6,000.0	0.00	0.00	5,744.6	-997.1	954.2	1,380.1	0.00	0.00	0.00	
6,100.0	0.00	0.00	5,844.6	-997.1	954.2	1,380.1	0.00	0.00	0.00	
6,200.0	0.00	0.00	5,944.6	-997.1	954.2	1,380.1	0.00	0.00	0.00	
6,231.4	0.00	0.00	5,976.0	-997.1	954.2	1,380.1	0.00	0.00	0.00	
Gallup										
6,300.0	0.00	0.00	6,044.6	-997.1	954.2	1,380.1	0.00	0.00	0.00	
6,400.0	0.00	0.00	6,144.6	-997.1	954.2	1,380.1	0.00	0.00	0.00	
6,500.0	0.00	0.00	6,244.6	-997.1	954.2	1,380.1	0.00	0.00	0.00	
6,600.0	0.00	0.00	6,344.6	-997.1	954.2	1,380.1	0.00	0.00	0.00	
6,700.0	0.00	0.00	6,444.6	-997.1	954.2	1,380.1	0.00	0.00	0.00	
6,800.0	0.00	0.00	6,544.6	-997.1	954.2	1,380.1	0.00	0.00	0.00	
6,900.0	0.00	0.00	6,644.6	-997.1	954.2	1,380.1	0.00	0.00	0.00	
6,995.4	0.00	0.00	6,740.0	-997.1	954.2	1,380.1	0.00	0.00	0.00	
Greenhorn										
7,000.0	0.00	0.00	6,744.6	-997.1	954.2	1,380.1	0.00	0.00	0.00	
7,050.4	0.00	0.00	6,795.0	-997.1	954.2	1,380.1	0.00	0.00	0.00	
Graneros										
7,100.0	0.00	0.00	6,844.6	-997.1	954.2	1,380.1	0.00	0.00	0.00	
7,106.4	0.00	0.00	6,851.0	-997.1	954.2	1,380.1	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Pubco Federal Gas Com 1N
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 5975.0usft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	RKB @ 5975.0usft (Original Well Elev)
Site:	Other Named Wells	North Reference:	Grid
Well:	Pubco Federal Gas Com 1N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Primary Wellbore		
Design:	APD Design		

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)
Two Wells									
7,185.4	0.00	0.00	6,930.0	-997.1	954.2	1,380.1	0.00	0.00	0.00
Pauguate									
7,200.0	0.00	0.00	6,944.6	-997.1	954.2	1,380.1	0.00	0.00	0.00
7,217.4	0.00	0.00	6,962.0	-997.1	954.2	1,380.1	0.00	0.00	0.00
Cubero									
7,274.4	0.00	0.00	7,019.0	-997.1	954.2	1,380.1	0.00	0.00	0.00
Encinal									
7,300.0	0.00	0.00	7,044.6	-997.1	954.2	1,380.1	0.00	0.00	0.00
7,304.4	0.00	0.00	7,049.0	-997.1	954.2	1,380.1	0.00	0.00	0.00
TD									

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									
PFGC 1N PCP	0.00	0.00	7,049.0	-997.1	954.2	2,114,104.82	464,853.02	36° 48' 35.836 N	107° 57' 12.223 W
- plan hits target center									
- Point									
PFGC 1N ICP	0.00	0.00	4,405.0	-997.1	954.2	2,114,104.82	464,853.02	36° 48' 35.836 N	107° 57' 12.223 W
- plan hits target center									
- Point									

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,047.5	1,030.0	Ojo Alamo		0.00		
7,274.4	7,019.0	Encinal		0.00		
7,304.4	7,049.0	TD		0.00		
1,171.9	1,145.0	Kirtland		0.00		
1,915.8	1,832.0	Fruitland		0.00		
6,231.4	5,976.0	Gallup		0.00		
4,390.6	4,136.0	Massive Cliff House		0.00		
2,560.1	2,427.0	Pictured Cliffs		0.00		
2,745.2	2,598.0	Lewis		0.00		
7,185.4	6,930.0	Pauguate		0.00		
7,106.4	6,851.0	Two Wells		0.00		
3,672.1	3,454.0	Chacra		0.00		
7,050.4	6,795.0	Graneros		0.00		
5,013.4	4,758.0	Pt. Lookout		0.00		
6,995.4	6,740.0	Greenhorn		0.00		
7,217.4	6,962.0	Cubero		0.00		
3,372.2	3,177.0	Huerfanito Bentonite		0.00		
4,512.3	4,257.0	Menefee		0.00		
5,360.4	5,105.0	Mancos Shale		0.00		

ConocoPhillips
Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Pubco Federal Gas Com 1N
Company:	ConocoPhillips SJBU	TVD Reference:	RKB @ 5975.0usft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	RKB @ 5975.0usft (Original Well Elev)
Site:	Other Named Wells	North Reference:	Grid
Well:	Pubco Federal Gas Com 1N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Primary Wellbore		
Design:	APD Design		