

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

RECEIVED**DEC 20 2011**

Sundry Notices and Reports on Wells

Farmington Field Office
Bureau of Land Management

1. Type of Well
GAS

2. Name of Operator

ConocoPhillips

3. Address & Phone No. of Operator

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

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

Surface: Unit J (NWSE), 2049' FSL & 1592' FEL, Section 30, T31N, R11W, NMPM
BHL : Unit P (SESE), 1250' FSL & 710' FEL, Section 30, T31N, R11W, NMPM

5. Lease Number

6. If Indian, All. or
Tribe Name

7. Unit Agreement Name

8. Well Name & Number
Heaton Com B 2N

9. API Well No.

30-045-35326

10. Field and Pool
Blanco MV/Basin DK11. County and State
San Juan, 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	☐ Surface Disturbance
☐ Subsequent Report	☐ Recompletion	☐ New Construction		
☐ Final Abandonment	☐ Plugging	☐ Non-Routine Fracturing		
	☐ Casing Repair	☐ Water Shut off		
	☐ Altering Casing	☐ Conversion to Injection		

13. Describe Proposed or Completed Operations

ConocoPhillips wishes to be granted permission to build and utilize the pad for the subject well which is located on Federal Lands. The APD will be applied for with the State of NMOCDD office since the mineral jurisdiction is Fee. Attached are the Plat (C102), topo, pipeline plat, well pad diagram, Surface Use Plan and the access road diagram. The Arch Report, BSR & EA were submitted to the BLM. The onsite was done on 9/20/11 with Mike Flaniken.

**RCVD FEB 14 '12
OIL CONS. DIV.**

DIST. 3

14. I hereby certify that the foregoing is true and correct.

Signed Arleen Kellywood Arleen Kellywood Title Staff Regulatory Technician Date 12/20/11

(This space for Federal or State Office use)

APPROVED BY Troy L. Salyers Title Petroleum Engineer Date 2/10/2012

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**

NMOCDD

04

RECEIVED

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

DISTRICT II
1301 W. 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, N.M. 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

DEC 20 2011

Form C-102

Revised July 16, 2010

OIL CONSERVATION DIVISION Farmington Sub Office
1220 South St. Francis Dr. Bureau of Land Management District Office
Santa Fe, N.M. 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35326	² Pool Code 72319/71599	³ Pool Name BLANCO MESA VERDE / DAKOTA
⁴ Property Code 38773	⁵ Property Name HEATON COM B	⁶ Well Number 2N
⁷ GRID No. 217817	⁸ Operator Name CONOCOPHILLIPS COMPANY	⁹ Elevation 5861

¹⁰ Surface Location

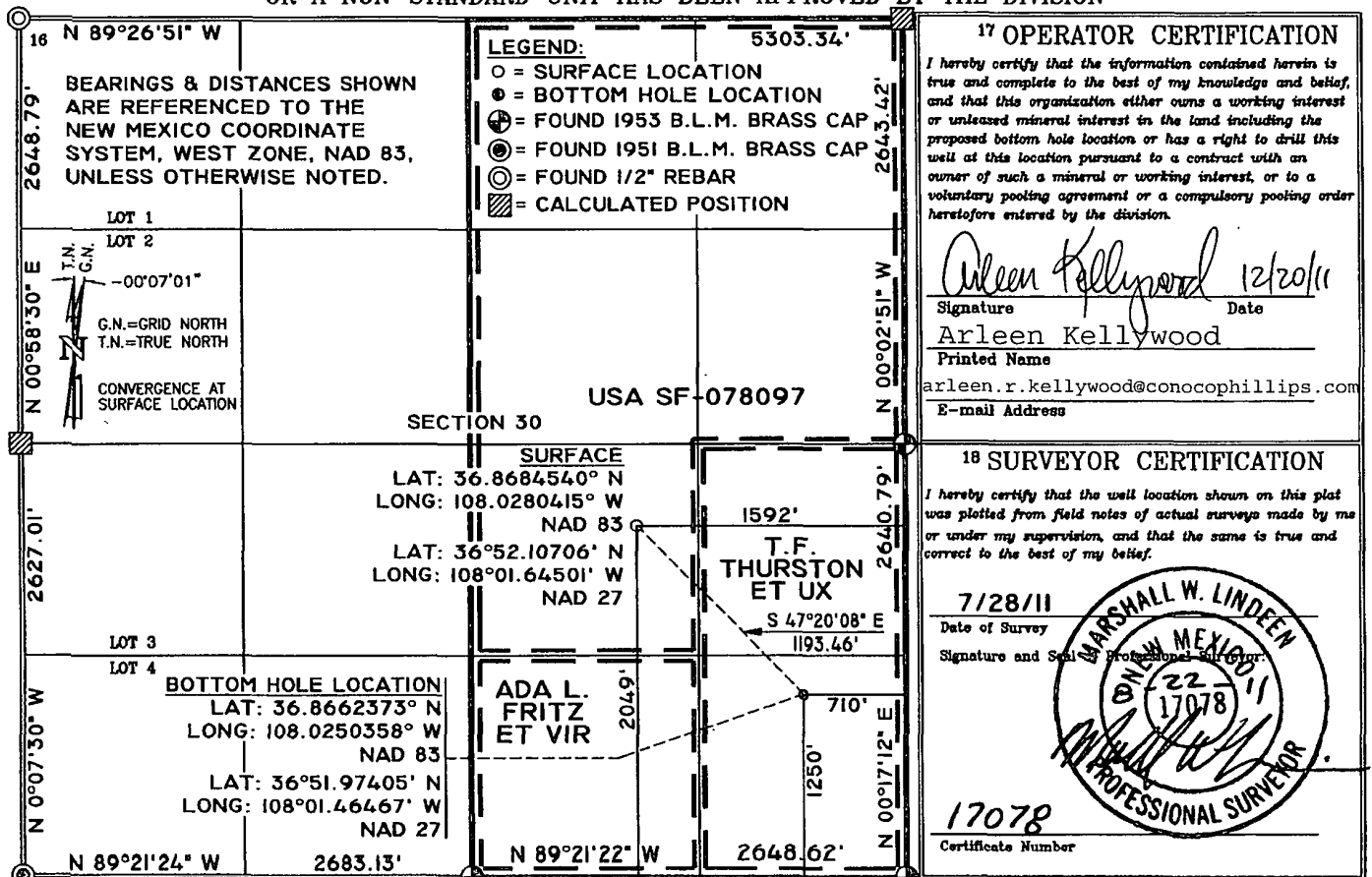
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	30	31 N	11 W		2049	SOUTH	1592	EAST	SAN JUAN

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
P	30	31 N	11 W		1250	SOUTH	710	EAST	SAN JUAN

¹² Dedicated Acres 320 (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



PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

HEATON COM B 2N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.1087				AFE \$:	
Field Name: SAN JUAN		Rig: Aztec Rig 920		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: 36.868451	Longitude: -108.027417	X:	Y:	Section: 30		Range: 011W	
Footage X: 1592 FEL	Footage Y: 2049 FSL	Elevation: 5861	(FT)	Township: 031N			
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27 Directional							
Latitude: 36.866234	Longitude: -108.024411	X:	Y:	Section: 30		Range: 011W	
Footage X: 710 FEL	Footage Y: 1250 FSL	Elevation:	(FT)	Township: 031N			
Tolerance:							
Location Type: Year Round		Start Date (Est.): 1/1/2012		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 5876 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	200	5676	200	☐			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	799	5077		☐			
KIRTLAND	883	4993		☐			
FRUITLAND	1809	4067		☐			Possible Gas
PICTURED CLIFFS	2358	3518		☐			
LEWIS	2516	3360		☐			
HUERFANITO BENTONITE	3088	2788		☐			
CHACRA	3445	2431		☐			
MASSIVE CLIFF HOUSE	3993	1883		☐			Gas
MENEFEE	4149	1727		☐			
Intermediate Casing	4298	1578	4503	☐			8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 1011 cuft. Circulate cement to surface.
POINT LOOKOUT	4641	1235		☐			
MANCOS	5004	872		☐			
UPPER GALLUP	5938	-62		☐			
GREENHORN	6672	-796		☐			
GRANEROS	6726	-850		☐			
TWO WELLS	6783	-907		☐	2329		Gas
PAGUATE	6855	-979		☐			
CUBERO	6893	-1017		☐			
ENCINAL	6951	-1075		☐			

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

HEATON COM B 2N

DEVELOPMENT

Total Depth	6981	-1105	7186	☐	200	6-1/4" hole, 4-1/2" 11.6 ppf, L-80, LTC casing. Cement w/ 359 cuft. Circulate cement a minimum of 100' inside the previous casing string.
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Reference Wells		
Reference Type	Well Name	Comments

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

TD Logs:	☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT
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Additional Information:					
Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Heaton Com B 2N
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 5876.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 5876.0ft (Original Well Elev)
Site:	Other Named Wells	North Reference:	True
Well:	Heaton Com B 2N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Heaton Com B 2N		
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
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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	Heaton Com B 2N					
Well Position	+N/-S	0.0 ft	Northing:	2,135,436.13 ft	Latitude:	36° 52' 6.424 N
	+E/-W	0.0 ft	Easting:	443,227.15 ft	Longitude:	108° 1' 38.701 W
Position Uncertainty	3.5 ft	Wellhead Elevation:	ft	Ground Level:	5,861.0 ft	

Wellbore	Heaton Com B 2N
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2011	11/21/2011	9.97	63.52	50,708

Design	Plan #1
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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	132.55

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	
350.0	0.00	0.00	350.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,419.9	21.40	132.55	1,395.2	-133.5	145.5	2.00	2.00	0.00	132.55	
3,789.2	21.40	132.55	3,601.2	-718.1	782.3	0.00	0.00	0.00	0.00	
4,502.5	0.00	0.00	4,298.0	-807.1	879.3	3.00	-3.00	0.00	180.00	Heaton Com B 2N I
7,185.5	0.00	0.00	6,981.0	-807.1	879.3	0.00	0.00	0.00	0.00	Heaton Com B 2N I

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Heaton Com B 2N
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 5876.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 5876.0ft (Original Well Elev)
Site:	Other Named Wells	North Reference:	True
Well:	Heaton Com B 2N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Heaton Com B 2N		
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
350.0	0.00	0.00	350.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	1.00	132.55	400.0	-0.3	0.3	0.4	2.00	2.00	0.00
500.0	3.00	132.55	499.9	-2.7	2.9	3.9	2.00	2.00	0.00
600.0	5.00	132.55	599.7	-7.4	8.0	10.9	2.00	2.00	0.00
700.0	7.00	132.55	699.1	-14.4	15.7	21.4	2.00	2.00	0.00
800.0	9.00	132.55	798.2	-23.9	26.0	35.3	2.00	2.00	0.00
800.9	9.02	132.55	799.0	-23.9	26.1	35.4	2.00	2.00	0.00
Ojo Alamo									
886.1	10.72	132.55	883.0	-33.8	36.8	50.0	2.00	2.00	0.00
Kirtland									
900.0	11.00	132.55	896.6	-35.6	38.8	52.6	2.00	2.00	0.00
1,000.0	13.00	132.55	994.4	-49.7	54.1	73.4	2.00	2.00	0.00
1,100.0	15.00	132.55	1,091.5	-66.0	71.9	97.6	2.00	2.00	0.00
1,200.0	17.00	132.55	1,187.6	-84.6	92.2	125.2	2.00	2.00	0.00
1,300.0	19.00	132.55	1,282.7	-105.5	115.0	156.1	2.00	2.00	0.00
1,400.0	21.00	132.55	1,376.6	-128.7	140.2	190.3	2.00	2.00	0.00
1,419.9	21.40	132.55	1,395.2	-133.5	145.5	197.5	2.00	2.00	0.00
1,500.0	21.40	132.55	1,469.8	-153.3	167.0	226.7	0.00	0.00	0.00
1,600.0	21.40	132.55	1,562.9	-178.0	193.9	263.2	0.00	0.00	0.00
1,700.0	21.40	132.55	1,656.0	-202.6	220.8	299.7	0.00	0.00	0.00
1,800.0	21.40	132.55	1,749.1	-227.3	247.6	336.2	0.00	0.00	0.00
1,864.3	21.40	132.55	1,809.0	-243.2	264.9	359.6	0.00	0.00	0.00
Fruitland									
1,900.0	21.40	132.55	1,842.2	-252.0	274.5	372.6	0.00	0.00	0.00
2,000.0	21.40	132.55	1,935.3	-276.7	301.4	409.1	0.00	0.00	0.00
2,100.0	21.40	132.55	2,028.4	-301.3	328.3	445.6	0.00	0.00	0.00
2,200.0	21.40	132.55	2,121.5	-326.0	355.2	482.1	0.00	0.00	0.00
2,300.0	21.40	132.55	2,214.6	-350.7	382.0	518.6	0.00	0.00	0.00
2,400.0	21.40	132.55	2,307.7	-375.3	408.9	555.1	0.00	0.00	0.00
2,454.0	21.40	132.55	2,358.0	-388.7	423.4	574.8	0.00	0.00	0.00
Pictured Cliffs									
2,500.0	21.40	132.55	2,400.8	-400.0	435.8	591.5	0.00	0.00	0.00
2,600.0	21.40	132.55	2,494.0	-424.7	462.7	628.0	0.00	0.00	0.00
2,623.7	21.40	132.55	2,516.0	-430.5	469.0	636.7	0.00	0.00	0.00
Lewis									
2,700.0	21.40	132.55	2,587.1	-449.3	489.6	664.5	0.00	0.00	0.00
2,800.0	21.40	132.55	2,680.2	-474.0	516.4	701.0	0.00	0.00	0.00
2,900.0	21.40	132.55	2,773.3	-498.7	543.3	737.5	0.00	0.00	0.00
3,000.0	21.40	132.55	2,866.4	-523.4	570.2	774.0	0.00	0.00	0.00
3,100.0	21.40	132.55	2,959.5	-548.0	597.1	810.5	0.00	0.00	0.00
3,200.0	21.40	132.55	3,052.6	-572.7	623.9	846.9	0.00	0.00	0.00
3,238.0	21.40	132.55	3,088.0	-582.1	634.2	860.8	0.00	0.00	0.00
Huerfano Bentonite									
3,300.0	21.40	132.55	3,145.7	-597.4	650.8	883.4	0.00	0.00	0.00
3,400.0	21.40	132.55	3,238.8	-622.0	677.7	919.9	0.00	0.00	0.00
3,500.0	21.40	132.55	3,331.9	-646.7	704.6	956.4	0.00	0.00	0.00
3,600.0	21.40	132.55	3,425.0	-671.4	731.5	992.9	0.00	0.00	0.00
3,621.5	21.40	132.55	3,445.0	-676.7	737.2	1,000.7	0.00	0.00	0.00

ConocoPhillips or its affiliates

Planning Report

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Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Heaton Com B 2N
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 5876 0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 5876.0ft (Original Well Elev)
Site:	Other Named Wells	North Reference:	True
Well:	Heaton Com B 2N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Heaton Com B 2N		
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)
Chacra									
3,700.0	21.40	132.55	3,518.1	-696.1	758.3	1,029.4	0.00	0.00	0.00
3,789.2	21.40	132.55	3,601.2	-718.1	782.3	1,061.9	0.00	0.00	0.00
3,800.0	21.07	132.55	3,611.2	-720.7	785.2	1,065.8	3.00	-3.00	0.00
3,900.0	18.07	132.55	3,705.5	-743.4	809.9	1,099.3	3.00	-3.00	0.00
4,000.0	15.07	132.55	3,801.3	-762.7	830.9	1,127.8	3.00	-3.00	0.00
4,100.0	12.07	132.55	3,898.5	-778.5	848.2	1,151.3	3.00	-3.00	0.00
4,196.2	9.19	132.55	3,993.0	-790.5	861.3	1,169.0	3.00	-3.00	0.00
Massive Cliff House									
4,200.0	9.07	132.55	3,996.8	-790.9	861.7	1,169.7	3.00	-3.00	0.00
4,300.0	6.07	132.55	4,095.9	-799.8	871.4	1,182.8	3.00	-3.00	0.00
4,353.3	4.47	132.55	4,149.0	-803.2	875.0	1,187.7	3.00	-3.00	0.00
Menefee									
4,400.0	3.07	132.55	4,195.6	-805.2	877.3	1,190.8	3.00	-3.00	0.00
4,500.0	0.07	132.55	4,295.5	-807.1	879.3	1,193.6	3.00	-3.00	0.00
4,502.5	0.00	0.00	4,298.0	-807.1	879.3	1,193.6	3.00	-3.00	0.00
Intermediate - Heaton Com B 2N ICP									
4,600.0	0.00	0.00	4,395.5	-807.1	879.3	1,193.6	0.00	0.00	0.00
4,700.0	0.00	0.00	4,495.5	-807.1	879.3	1,193.6	0.00	0.00	0.00
4,800.0	0.00	0.00	4,595.5	-807.1	879.3	1,193.6	0.00	0.00	0.00
4,845.5	0.00	0.00	4,641.0	-807.1	879.3	1,193.6	0.00	0.00	0.00
Pt. Lookout									
4,900.0	0.00	0.00	4,695.5	-807.1	879.3	1,193.6	0.00	0.00	0.00
5,000.0	0.00	0.00	4,795.5	-807.1	879.3	1,193.6	0.00	0.00	0.00
5,100.0	0.00	0.00	4,895.5	-807.1	879.3	1,193.6	0.00	0.00	0.00
5,200.0	0.00	0.00	4,995.5	-807.1	879.3	1,193.6	0.00	0.00	0.00
5,208.5	0.00	0.00	5,004.0	-807.1	879.3	1,193.6	0.00	0.00	0.00
Mancos Shale									
5,300.0	0.00	0.00	5,095.5	-807.1	879.3	1,193.6	0.00	0.00	0.00
5,400.0	0.00	0.00	5,195.5	-807.1	879.3	1,193.6	0.00	0.00	0.00
5,500.0	0.00	0.00	5,295.5	-807.1	879.3	1,193.6	0.00	0.00	0.00
5,600.0	0.00	0.00	5,395.5	-807.1	879.3	1,193.6	0.00	0.00	0.00
5,700.0	0.00	0.00	5,495.5	-807.1	879.3	1,193.6	0.00	0.00	0.00
5,800.0	0.00	0.00	5,595.5	-807.1	879.3	1,193.6	0.00	0.00	0.00
5,900.0	0.00	0.00	5,695.5	-807.1	879.3	1,193.6	0.00	0.00	0.00
6,000.0	0.00	0.00	5,795.5	-807.1	879.3	1,193.6	0.00	0.00	0.00
6,100.0	0.00	0.00	5,895.5	-807.1	879.3	1,193.6	0.00	0.00	0.00
6,142.5	0.00	0.00	5,938.0	-807.1	879.3	1,193.6	0.00	0.00	0.00
Gallup									
6,200.0	0.00	0.00	5,995.5	-807.1	879.3	1,193.6	0.00	0.00	0.00
6,300.0	0.00	0.00	6,095.5	-807.1	879.3	1,193.6	0.00	0.00	0.00
6,400.0	0.00	0.00	6,195.5	-807.1	879.3	1,193.6	0.00	0.00	0.00
6,500.0	0.00	0.00	6,295.5	-807.1	879.3	1,193.6	0.00	0.00	0.00
6,600.0	0.00	0.00	6,395.5	-807.1	879.3	1,193.6	0.00	0.00	0.00
6,700.0	0.00	0.00	6,495.5	-807.1	879.3	1,193.6	0.00	0.00	0.00
6,800.0	0.00	0.00	6,595.5	-807.1	879.3	1,193.6	0.00	0.00	0.00
6,876.5	0.00	0.00	6,672.0	-807.1	879.3	1,193.6	0.00	0.00	0.00
Greenhorn									
6,900.0	0.00	0.00	6,695.5	-807.1	879.3	1,193.6	0.00	0.00	0.00
6,930.5	0.00	0.00	6,726.0	-807.1	879.3	1,193.6	0.00	0.00	0.00
Graneros									
6,987.5	0.00	0.00	6,783.0	-807.1	879.3	1,193.6	0.00	0.00	0.00

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Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Heaton Com B 2N
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 5876.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 5876.0ft (Original Well Elev)
Site:	Other Named Wells	North Reference:	True
Well:	Heaton Com B 2N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Heaton Com B 2N		
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)
Two Wells									
7,000.0	0.00	0.00	6,795.5	-807.1	879.3	1,193.6	0.00	0.00	0.00
7,059.5	0.00	0.00	6,855.0	-807.1	879.3	1,193.6	0.00	0.00	0.00
Pauguate									
7,097.5	0.00	0.00	6,893.0	-807.1	879.3	1,193.6	0.00	0.00	0.00
Cubero									
7,100.0	0.00	0.00	6,895.5	-807.1	879.3	1,193.6	0.00	0.00	0.00
7,155.5	0.00	0.00	6,951.0	-807.1	879.3	1,193.6	0.00	0.00	0.00
Encinal									
7,185.5	0.00	0.00	6,981.0	-807.1	879.3	1,193.6	0.00	0.00	0.00
Production - Heaton Com B 2N PCP									

Targets									
Target Name	hit/miss target	Dip Angle (°)	Dip Dir (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude
Heaton Com B 2N PC	- plan hits target center	0.00	0.00	6,981.0	-807.1	879.3	2,134,627.31	444,104.74	36° 51' 58.443 N
- Point									108° 1' 27.880 W
Heaton Com B 2N ICF	- plan hits target center	0.00	0.00	4,298.0	-807.1	879.3	2,134,627.32	444,104.75	36° 51' 58.443 N
- Point									108° 1' 27.880 W

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
200.0	200.0	Surface	9-5/8	12-1/4	
4,502.5	4,298.0	Intermediate	7	8-3/4	
7,185.5	6,981.0	Production	4-1/2	6-1/4	

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Planning Report

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Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Heaton Com B 2N
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 5876.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 5876.0ft (Original Well Elev)
Site:	Other Named Wells	North Reference:	True
Well:	Heaton Com B 2N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Heaton Com B 2N		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,196.2	3,993.0	Massive Cliff House		0.00		
2,454.0	2,358.0	Pictured Cliffs		0.00		
2,623.7	2,516.0	Lewis		0.00		
6,987.5	6,783.0	Two Wells		0.00		
886.1	883.0	Kirtland		0.00		
6,876.5	6,672.0	Greenhorn		0.00		
4,845.5	4,641.0	Pt. Lookout		0.00		
1,864.3	1,809.0	Fruitland		0.00		
3,238.0	3,088.0	Huerfano Bentonite		0.00		
3,621.5	3,445.0	Chacra		0.00		
7,059.5	6,855.0	Pauguete		0.00		
7,097.5	6,893.0	Cubero		0.00		
7,155.5	6,951.0	Encinal		0.00		
4,353.3	4,149.0	Menefee		0.00		
6,142.5	5,938.0	Gallup		0.00		
5,208.5	5,004.0	Mancos Shale		0.00		
6,930.5	6,726.0	Graneros		0.00		
800.9	799.0	Ojo Alamo		0.00		

REFERENCE INFORMATION

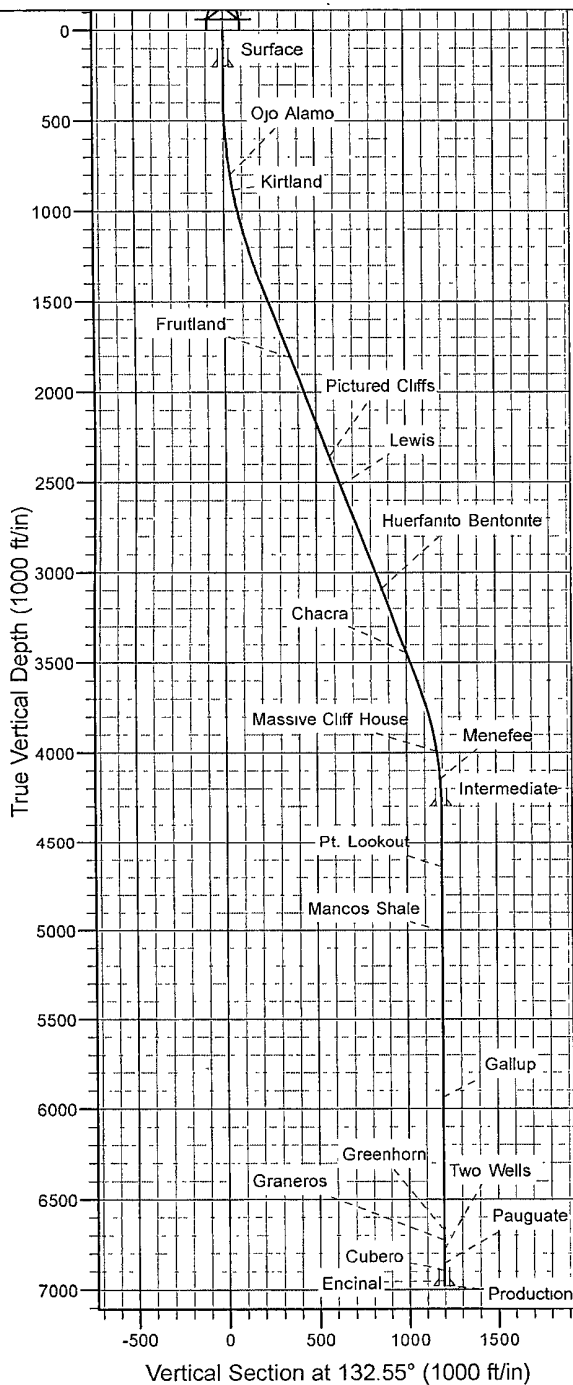
WELL @ 5876.0ft (Original Well Elev)
Ground Elevation 5861.0
Reference Lat: 36° 52' 6.424 N
Reference Long: 108° 1' 38.701 W

Project: San Juan Basin - New Mexico West W
Site: Other Named Wells
Well: Heaton Com B 2N
Wellbore: Heaton Com B 2N
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	350.0	0.00	0.00	350.0	0.0	0.0	0.00	0.00	0.0	
3	1419.9	21.40	132.55	1395.2	-133.5	145.5	2.00	132.55	197.5	
4	3789.2	21.40	132.55	3601.2	-718.1	782.3	0.00	0.00	1061.9	
5	4502.5	0.00	0.00	4298.0	-807.1	879.3	3.00	180.00	1193.6	Heaton Com B 2N ICP
6	7185.5	0.00	0.00	6981.0	-807.1	879.3	0.00	0.00	1193.6	Heaton Com B 2N PCP



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
799.0	800.9	Ojo Alamo
883.0	886.1	Kirtland
1809.0	1864.3	Fruitland
2358.0	2454.0	Pictured Cliffs
2516.0	2623.7	Lewis
3088.0	3238.0	Huerfano Bentonite
3445.0	3621.5	Chacra
3993.0	4196.2	Massive Cliff House
4149.0	4353.3	Menefee
4641.0	4845.5	Pt. Lookout
5004.0	5208.5	Mancos Shale
5938.0	6142.5	Gallup
6672.0	6876.5	Greenhorn
6726.0	6930.5	Graneros
6783.0	6987.5	Two Wells
6855.0	7059.5	Panguate
6893.0	7097.5	Cubero
6951.0	7155.5	Encinal

