

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

David Martin
Cabinet Secretary-Designate

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary



New Mexico Oil Conservation Division approval and conditions listed below are made in accordance with OCD Rule 19.15.7.11 and are in addition to the actions approved by BLM on the following 3160-3 APD form.

Operator Signature Date: 8-15-14

Well information;

Operator Burlington, Well Name and Number Cooper #3P

API# 30-045-35585, Section 6, Township 29 N/S, Range 11 E/W

Conditions of Approval:

(See the below checked and handwritten conditions)

- ☒ Notify Aztec OCD 24hrs prior to casing & cement.
- ☒ Hold C-104 for directional survey & "As Drilled" Plat
- ☐ Hold C-104 for NSL, NSP, DHC
- ☐ Spacing rule violation. Operator must follow up with change of status notification on other well to be shut in or abandoned
- ☐ Regarding the use of a pit, closed loop system or below grade tank, the operator must comply with the following as applicable:
 - A pit requires a complete C-144 be submitted and approved prior to the construction or use of the pit, pursuant to 19.15.17.8.A
 - A closed loop system requires notification prior to use, pursuant to 19.15.17.9.A
 - A below grade tank requires a registration be filed prior to the construction or use of the below grade tank, pursuant to 19.15.17.8.C
- ☐ Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
- ☒ Regarding Hydraulic Fracturing, review EPA Underground Injection Control Guidance 84
- ☒ Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.
- ☒ Well-bore communication is regulated under 19.15.29 NMAC. This requires well-bore Communication to be reported in accordance with 19.15.29.8.


NMOCD Approved by Signature

10-23-2014
Date

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCT 22 2014

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2014

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work ☒ DRILL ☐ RE-ENTER		5. Lease Serial SF-077317	
b. Type of Well: ☐ Oil Well ☒ Gas Well		6. If Indian, Allottee or Tribe Name	
Other: _____		7. Unit or CA Agreement Name and No.	
2. Name of Operator Burlington Resources Oil & Gas Company		8. Lease Name and Well No. Cooper 3P	
3. Address: PO Box 4289, Farmington, NM 87499		9. API Well No. 30-045- 35585	
3a. Phone No. (include area code) (505) 326-9700		10. Field and Pool or Exploratory Basin DK/Blanco MV	
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface Unit N (SE/SW), 1110' FSL & 1456' FWL Latitude 36.750511 (NAD 83) Longitude 108.036152 (NAD 83) At BHL Unit K (NE/SW), 1830' FSL & 2170' FWL Latitude 36.752495 (NAD 83) Longitude 108.033627 (NAD 83)		11. Sec., T., R., M., on Block and Survey or Area Suf: Sec. 6, T29N, R11W BHL: Sec. 6, T29N, R11W	
14. Distance in miles from Nearest Town 6 miles from Aztec		12. County or Parish San Juan	
15. Distance from Proposed Location to Nearest Property or Lease Line: 1110'		13. State New Mexico	
17. Acres Assigned to Well.: 307.12 Acres - S/2 Sec. 6		16. Acres in Lease 689.93	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this lease 393' from Cooper 11 (P&A)		19. Proposed Depth 6540'	
20. Rotary or Cable Tools Rotary		21. Elevations (DF, FT, GR, Etc.) 5758	
22. Approx. Date Work will Start		23. Proposed Casing and Cementing Program See Operations Plan attached	
24. Authorized by: <u>Arleen White</u> Arleen White (Staff Regulatory Tech)		Date <u>8/15/14</u>	

PERMIT NO. _____

APPROVAL DATE _____

APPROVED BY: [Signature]

TITLE AFM

DATE 10/21/14

Archaeological Report attached

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.

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

Example Master Plan Type

BLM'S APPROVAL OR ACCEPTANCE OF THIS Bond Numbers NMB-000015 and NMB-000089

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

ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS

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

OPERATOR

DISTRICT I
1639 H. French Dr., Hobbs, N.M. 88240
Phone: (505) 533-6161 Fax: (505) 533-0720

DISTRICT II
631 S. First St., Artesia, N.M. 88210
Phone: (505) 748-1283 Fax: (505) 748-0720

DISTRICT III
1000 Rio Grande Blvd., Aztec, N.M. 87410
Phone: (505) 334-6179 Fax: (505) 334-0170

DISTRICT IV
1820 S. El Francisco Dr., Santa Fe, NM 87506
Phone: (505) 478-3460 Fax: (505) 478-3460

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 1, 2011

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35585	² Pool Code 72319/71599	³ Pool Name BLANCO MESAVERDE / BASIN DAKOTA
⁴ Property Code 18498	⁵ Property Name COOPER	⁶ Well Number 3P
⁷ GRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	⁹ Elevation 5758'

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
N	6	29N	11W		1110'	SOUTH	1456'	WEST	SAN JUAN

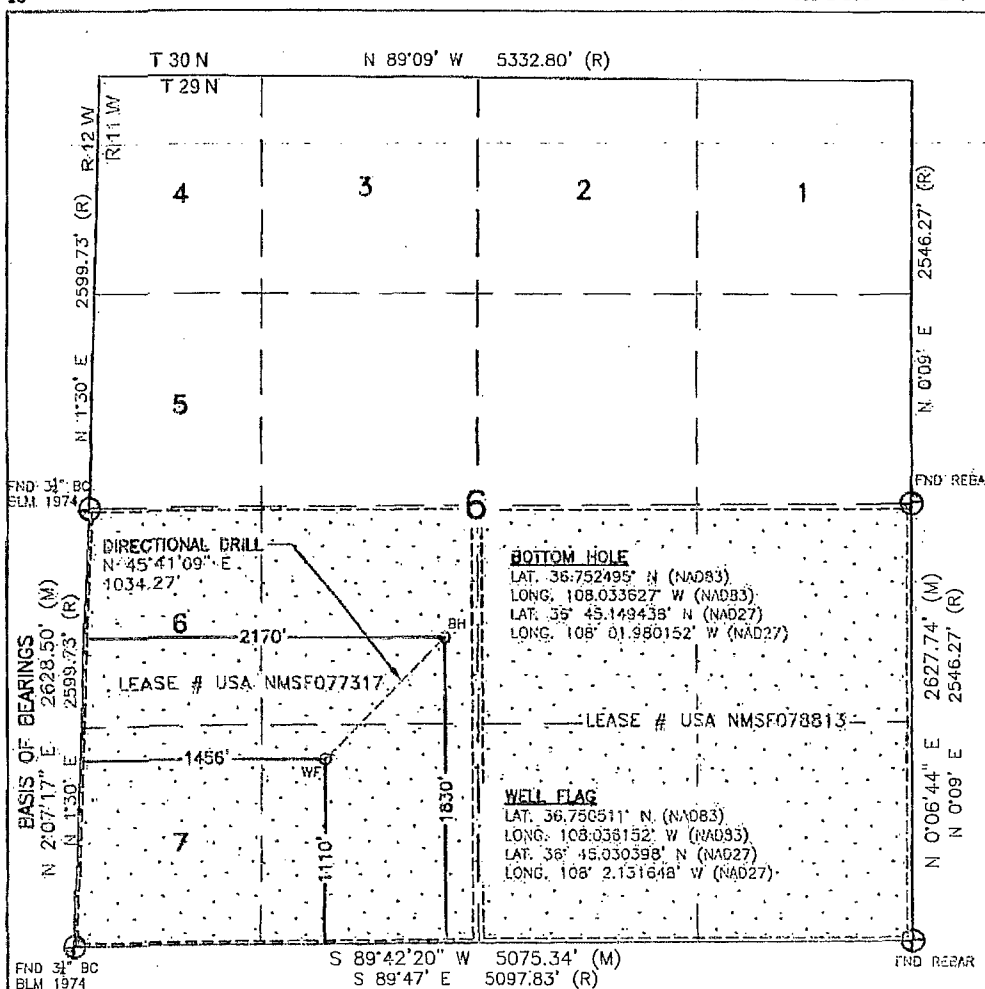
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	6	29N	11W		1830'	SOUTH	2170'	WEST	SAN JUAN

¹² Dedicated Acres 307.12 ACRES - S/2 SEC. 6	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

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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 voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Arleen White 8/6/14
Signature Date

Arleen White
Printed Name

arleen.r.white@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.

JUNE 12, 2014

Date of Survey

Signature and Seal of Professional Surveyor

DAVID R. RUSSELL
REGISTERED PROFESSIONAL LAND SURVEYOR
10201

DAVID RUSSELL

Certificate Number 10201

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

COOPER 3P

DEVELOPMENT

Lease:		AFE #: WAN.CDR.4009				AFE \$:	
Field Name: SAN JUAN		Rig: Pushing Rig		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				Straight Hole	
Latitude: 36.750507	Longitude: -108.035527	X:	Y:	Section: 06	Range: 011W		
Footage X: 1456 FWL	Footage Y: 1110 FSL	Elevation: 5758	(FT)	Township: 029N			
Tolerance:							
Location: Bottom Hole		Datum Code: NAD 27				Straight Hole	
Latitude: 36.752491	Longitude: -108.033003	X:	Y:	Section: 06	Range: 011W		
Footage X: 2170 FWL	Footage Y: 1830 FSL	Elevation:	(FT)	Township: 029N			
Tolerance:							
Location Type: Year Round		Start Date (Est.): 1/1/2016		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 5773 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
NACIMIENTO	0	5773		☐			Surface geology
Surface Casing	200	5573		☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 112 cuft. Circulate cement to surface.
OJO ALAMO	621	5152		☐			
KIRTLAND	729	5044		☐			
FRUITLAND	1328	4445		☐			Possible Gas
PICTURED CLIFFS	1925	3848		☐	147		
LEWIS	2102	3671		☐			
HUERFANITO BENTONITE	2623	3150		☐			
CHACRA	2962	2811		☐			
UPPER CLIFF HOUSE	3525	2248		☐			Gas
MASSIVE CLIFF HOUSE	3617	2156		☐	457		Gas
MENEFEE	3664	2109		☐			
Intermediate Casing	3814	1959		☐		132	8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 898 cuft. Circulate cement to surface.
POINT LOOKOUT	4285	1488		☐			
MANCOS	4640	1133		☐			
UPPER GALLUP	5532	241		☐			
GREENHORN	6276	-503		☐			
GRANEROS	6326	-553		☐			
TWO WELLS	6360	-587		☐	1618		Gas
PAGUATE	6456	-683		☐			
CUBERO	6510	-737		☐			

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

COOPER 3P

DEVELOPMENT

Total Depth	6540	-767	☐	200	6-1/4" hole, 4-1/2" 11.6 ppi, N/L-80, LTC/BTC casing. Cement w/ 361 cuft. Circulate cement a minimum of 100' inside the previous casing string.
ENCINAL	6562	-789	☐		Est TD 30' below the top of Cubero. Est bottom perf 15' below the top of Cubero depending on reservoir sand development.

Reference Wells:

Reference Type	Well Name	Comments
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Logging Program:

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

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

Mud log from ~100' above the Upper Gallup to TD. Mud loggers will call final TD. Plan on completing the top 15' of Cubero depending on reservoir sand development.

Additional Information:

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

San Juan Basin - New Mexico West Wells

Other Named Wells

Cooper #3P

Wellbore #1

Plan: APD Plan

Standard Planning Report

09 July, 2014

ConocoPhillips

Planning Report

Database: EDM Central Planning
Company: ConocoPhillips SJBU
Project: San Juan Basin - New Mexico West Wells
Site: Other Named Wells
Well: Cooper #3P
Wellbore: Wellbore #1
Design: APD Plan

Local Co-ordinate Reference: Well Cooper #3P
TVD Reference: WELL @ 5773.0usft (Original Well Elev)
MD Reference: WELL @ 5773.0usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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	Cooper #3P			
Well Position	+N/-S	0.0 usft	Northing:	2,092,503.52 usft
	+E/-W	0.0 usft	Easting:	440,763.86 usft
Position Uncertainty	2.5 usft	Wellhead Elevation:	usft	Ground Level: 5,758.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2014	7/9/2014	9.71	63.37	50,323

Design	APD Plan			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	45.80

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	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,225.0	20.50	45.80	1,203.3	126.5	130.1	2.00	2.00	0.00	45.80	
3,313.9	20.50	45.80	3,159.9	636.5	654.6	0.00	0.00	0.00	0.00	
3,997.3	0.00	0.00	3,828.8	720.8	741.3	3.00	-3.00	0.00	180.00	
6,708.5	0.00	0.00	6,540.0	720.8	741.3	0.00	0.00	0.00	0.00	Cooper #3P BHL

ConocoPhillips

Planning Report

Database: EDM Central Planning
 Company: ConocoPhillips SJB
 Project: San Juan Basin - New Mexico West Wells
 Site: Other Named Wells
 Well: Cooper #3P
 Wellbore: Wellbore #1
 Design: APD Plan

Local Co-ordinate Reference: Well Cooper #3P
 TVD Reference: WELL @ 5773.0usft (Original Well Elev)
 MD Reference: WELL @ 5773.0usft (Original Well Elev)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

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
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
Surface-9-5/8"									
300.0	2.00	45.80	300.0	1.2	1.3	1.7	2.00	2.00	0.00
400.0	4.00	45.80	399.8	4.9	5.0	7.0	2.00	2.00	0.00
500.0	6.00	45.80	499.5	10.9	11.3	15.7	2.00	2.00	0.00
600.0	8.00	45.80	598.7	19.4	20.0	27.9	2.00	2.00	0.00
622.5	8.45	45.80	621.0	21.7	22.3	31.1	2.00	2.00	0.00
Ojo Alamo									
700.0	10.00	45.80	697.5	30.3	31.2	43.5	2.00	2.00	0.00
732.1	10.64	45.80	729.0	34.3	35.3	49.3	2.00	2.00	0.00
Kirtland									
800.0	12.00	45.80	795.6	43.6	44.9	62.6	2.00	2.00	0.00
900.0	14.00	45.80	893.1	59.3	61.0	85.1	2.00	2.00	0.00
1,000.0	16.00	45.80	989.6	77.4	79.6	111.0	2.00	2.00	0.00
1,100.0	18.00	45.80	1,085.3	97.7	100.5	140.2	2.00	2.00	0.00
1,200.0	20.00	45.80	1,179.8	120.4	123.9	172.8	2.00	2.00	0.00
1,225.0	20.50	45.80	1,203.3	126.5	130.1	181.4	2.00	2.00	0.00
1,300.0	20.50	45.80	1,273.5	144.8	148.9	207.7	0.00	0.00	0.00
1,358.2	20.50	45.80	1,328.0	159.0	163.5	228.1	0.00	0.00	0.00
Fruitland									
1,400.0	20.50	45.80	1,367.2	169.2	174.0	242.7	0.00	0.00	0.00
1,500.0	20.50	45.80	1,460.9	193.6	199.1	277.7	0.00	0.00	0.00
1,600.0	20.50	45.80	1,554.5	218.0	224.2	312.7	0.00	0.00	0.00
1,700.0	20.50	45.80	1,648.2	242.4	249.3	347.8	0.00	0.00	0.00
1,800.0	20.50	45.80	1,741.9	266.8	274.4	382.8	0.00	0.00	0.00
1,900.0	20.50	45.80	1,835.5	291.3	299.6	417.8	0.00	0.00	0.00
1,995.5	20.50	45.80	1,925.0	314.6	323.5	451.3	0.00	0.00	0.00
Pictured Cliffs									
2,000.0	20.50	45.80	1,929.2	315.7	324.7	452.8	0.00	0.00	0.00
2,100.0	20.50	45.80	2,022.9	340.1	349.8	487.9	0.00	0.00	0.00
2,184.5	20.50	45.80	2,102.0	360.7	371.0	517.4	0.00	0.00	0.00
Lewis									
2,200.0	20.50	45.80	2,116.5	364.5	374.9	522.9	0.00	0.00	0.00
2,300.0	20.50	45.80	2,210.2	388.9	400.0	557.9	0.00	0.00	0.00
2,400.0	20.50	45.80	2,303.9	413.3	425.1	592.9	0.00	0.00	0.00
2,500.0	20.50	45.80	2,397.5	437.7	450.2	627.9	0.00	0.00	0.00
2,600.0	20.50	45.80	2,491.2	462.2	475.3	663.0	0.00	0.00	0.00
2,700.0	20.50	45.80	2,584.9	486.6	500.4	698.0	0.00	0.00	0.00
2,740.7	20.50	45.80	2,623.0	496.5	510.6	712.2	0.00	0.00	0.00
Herfanito Bentonite									
2,800.0	20.50	45.80	2,678.5	511.0	525.5	733.0	0.00	0.00	0.00
2,900.0	20.50	45.80	2,772.2	535.4	550.6	768.0	0.00	0.00	0.00
3,000.0	20.50	45.80	2,865.9	559.8	575.7	803.0	0.00	0.00	0.00
3,100.0	20.50	45.80	2,959.5	584.2	600.9	838.1	0.00	0.00	0.00
3,102.6	20.50	45.80	2,962.0	584.9	601.5	839.0	0.00	0.00	0.00
Chacra									
3,200.0	20.50	45.80	3,053.2	608.6	626.0	873.1	0.00	0.00	0.00
3,300.0	20.50	45.80	3,146.9	633.1	651.1	908.1	0.00	0.00	0.00
3,313.9	20.50	45.80	3,159.9	636.5	654.6	913.0	0.00	0.00	0.00
3,400.0	17.92	45.80	3,241.2	656.2	674.9	941.3	3.00	-3.00	0.00

ConocoPhillips

Planning Report

Database: EDM Central Planning
 Company: ConocoPhillips SJBU
 Project: San Juan Basin - New Mexico West Wells
 Site: Other Named Wells
 Well: Cooper #3P
 Wellbore: Wellbore #1
 Design: APD Plan

Local Co-ordinate Reference: Well Cooper #3P
 TVD Reference: WELL @ 5773.0usft (Original Well Elev)
 MD Reference: WELL @ 5773.0usft (Original Well Elev)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

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)
3,500.0	14.92	45.80	3,337.1	675.9	695.1	969.6	3.00	-3.00	0.00
3,600.0	11.92	45.80	3,434.4	692.1	711.8	992.8	3.00	-3.00	0.00
3,692.2	9.15	45.80	3,525.0	703.8	723.9	1,009.6	3.00	-3.00	0.00
Upper Cliff House									
3,700.0	8.92	45.80	3,532.7	704.7	724.7	1,010.8	3.00	-3.00	0.00
3,785.1	6.37	45.80	3,617.0	712.6	732.8	1,022.2	3.00	-3.00	0.00
Massive Cliff House									
3,800.0	5.92	45.80	3,631.8	713.7	734.0	1,023.8	3.00	-3.00	0.00
3,832.3	4.95	45.80	3,664.0	715.8	736.2	1,026.8	3.00	-3.00	0.00
Menefee									
3,900.0	2.92	45.80	3,731.5	719.0	739.5	1,031.5	3.00	-3.00	0.00
3,982.5	0.44	45.80	3,814.0	720.7	741.2	1,033.9	3.00	-3.00	0.00
Intermediate - 7"									
3,997.3	0.00	0.00	3,828.8	720.8	741.3	1,033.9	3.00	-3.00	0.00
4,000.0	0.00	0.00	3,831.5	720.8	741.3	1,033.9	0.00	0.00	0.00
4,100.0	0.00	0.00	3,931.5	720.8	741.3	1,033.9	0.00	0.00	0.00
4,200.0	0.00	0.00	4,031.5	720.8	741.3	1,033.9	0.00	0.00	0.00
4,300.0	0.00	0.00	4,131.5	720.8	741.3	1,033.9	0.00	0.00	0.00
4,400.0	0.00	0.00	4,231.5	720.8	741.3	1,033.9	0.00	0.00	0.00
4,453.5	0.00	0.00	4,285.0	720.8	741.3	1,033.9	0.00	0.00	0.00
Point Lookout									
4,500.0	0.00	0.00	4,331.5	720.8	741.3	1,033.9	0.00	0.00	0.00
4,600.0	0.00	0.00	4,431.5	720.8	741.3	1,033.9	0.00	0.00	0.00
4,700.0	0.00	0.00	4,531.5	720.8	741.3	1,033.9	0.00	0.00	0.00
4,800.0	0.00	0.00	4,631.5	720.8	741.3	1,033.9	0.00	0.00	0.00
4,808.5	0.00	0.00	4,640.0	720.8	741.3	1,033.9	0.00	0.00	0.00
Mancos									
4,900.0	0.00	0.00	4,731.5	720.8	741.3	1,033.9	0.00	0.00	0.00
5,000.0	0.00	0.00	4,831.5	720.8	741.3	1,033.9	0.00	0.00	0.00
5,100.0	0.00	0.00	4,931.5	720.8	741.3	1,033.9	0.00	0.00	0.00
5,200.0	0.00	0.00	5,031.5	720.8	741.3	1,033.9	0.00	0.00	0.00
5,300.0	0.00	0.00	5,131.5	720.8	741.3	1,033.9	0.00	0.00	0.00
5,400.0	0.00	0.00	5,231.5	720.8	741.3	1,033.9	0.00	0.00	0.00
5,500.0	0.00	0.00	5,331.5	720.8	741.3	1,033.9	0.00	0.00	0.00
5,600.0	0.00	0.00	5,431.5	720.8	741.3	1,033.9	0.00	0.00	0.00
5,700.0	0.00	0.00	5,531.5	720.8	741.3	1,033.9	0.00	0.00	0.00
5,700.5	0.00	0.00	5,532.0	720.8	741.3	1,033.9	0.00	0.00	0.00
Upper Galtup									
5,800.0	0.00	0.00	5,631.5	720.8	741.3	1,033.9	0.00	0.00	0.00
5,900.0	0.00	0.00	5,731.5	720.8	741.3	1,033.9	0.00	0.00	0.00
6,000.0	0.00	0.00	5,831.5	720.8	741.3	1,033.9	0.00	0.00	0.00
6,100.0	0.00	0.00	5,931.5	720.8	741.3	1,033.9	0.00	0.00	0.00
6,200.0	0.00	0.00	6,031.5	720.8	741.3	1,033.9	0.00	0.00	0.00
6,300.0	0.00	0.00	6,131.5	720.8	741.3	1,033.9	0.00	0.00	0.00
6,400.0	0.00	0.00	6,231.5	720.8	741.3	1,033.9	0.00	0.00	0.00
6,444.5	0.00	0.00	6,276.0	720.8	741.3	1,033.9	0.00	0.00	0.00
Greenhorn									
6,494.5	0.00	0.00	6,326.0	720.8	741.3	1,033.9	0.00	0.00	0.00
Graneros									
6,500.0	0.00	0.00	6,331.5	720.8	741.3	1,033.9	0.00	0.00	0.00
6,528.5	0.00	0.00	6,360.0	720.8	741.3	1,033.9	0.00	0.00	0.00
Two Wells									

ConocoPhillips

Planning Report

Database: EDM Central Planning
 Company: ConocoPhillips SJB
 Project: San Juan Basin - New Mexico West Wells
 Site: Other Named Wells
 Well: Cooper #3P
 Wellbore: Wellbore #1
 Design: APD Plan

Local Co-ordinate Reference: Well Cooper #3P
 TVD Reference: WELL @ 5773.0usft (Original Well Elev)
 MD Reference: WELL @ 5773.0usft (Original Well Elev)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

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)
6,600.0	0.00	0.00	6,431.5	720.8	741.3	1,033.9	0.00	0.00	0.00
6,624.5	0.00	0.00	6,456.0	720.8	741.3	1,033.9	0.00	0.00	0.00
Paguate									
6,678.5	0.00	0.00	6,510.0	720.8	741.3	1,033.9	0.00	0.00	0.00
Cubero									
6,708.5	0.00	0.00	6,540.0	720.8	741.3	1,033.9	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									
Cooper #3P BHL	0.00	0.00	6,540.0	720.8	741.3	2,093,224.23	441,505.08	36° 45' 8.966 N	108° 1' 58.809 W
- plan hits target center									
- Point									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
200.0	200.0	Surface-9-5/8"	9-5/8	12-1/4	
6,708.5	6,540.0	Production - 4-1/2"	4-1/2	6-1/4	
3,982.5	3,814.0	Intermediate - 7"	7	8-3/4	

ConocoPhillips

Planning Report

Database: EDM Central Planning
Company: ConocoPhillips SJBU
Project: San Juan Basin - New Mexico West Wells
Site: Other Named Wells
Well: Cooper #3P
Wellbore: Wellbore #1
Design: APD Plan

Local Co-ordinate Reference: Well Cooper #3P
TVD Reference: WELL @ 5773.0usft (Original Well Elev)
MD Reference: WELL @ 5773.0usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,808.5	4,640.0	Mancos		0.00	
2,184.5	2,102.0	Lewis		0.00	
6,678.5	6,510.0	Cubero		0.00	
0.0	0.0	Nacimiento		0.00	
6,528.5	6,360.0	Two Wells		0.00	
6,494.5	6,326.0	Graneros		0.00	
1,995.5	1,925.0	Pictured Cliffs		0.00	
622.5	621.0	Ojo Alamo		0.00	
3,692.2	3,525.0	Upper Cliff House		0.00	
3,102.6	2,962.0	Chacra		0.00	
2,740.7	2,623.0	Herfanito Bentonite		0.00	
6,444.5	6,276.0	Greenhorn		0.00	
1,358.2	1,328.0	Fruitland		0.00	
732.1	729.0	Kirtland		0.00	
3,832.3	3,664.0	Menefee		0.00	
4,453.5	4,285.0	Point Lookout		0.00	
6,624.5	6,456.0	Paguate		0.00	
5,700.5	5,532.0	Upper Gallup		0.00	
3,785.1	3,617.0	Massive Cliff House		0.00	

REFERENCE INFORMATION

WELL @ 5773.0usft (Original Well Elev)
Ground Elevation 5758.0
Reference Lat: 36° 45' 1.824 N
Reference Long: 108° 2' 7.899 W

Project: San Juan Basin - New Mexico West V

Other Named Wells

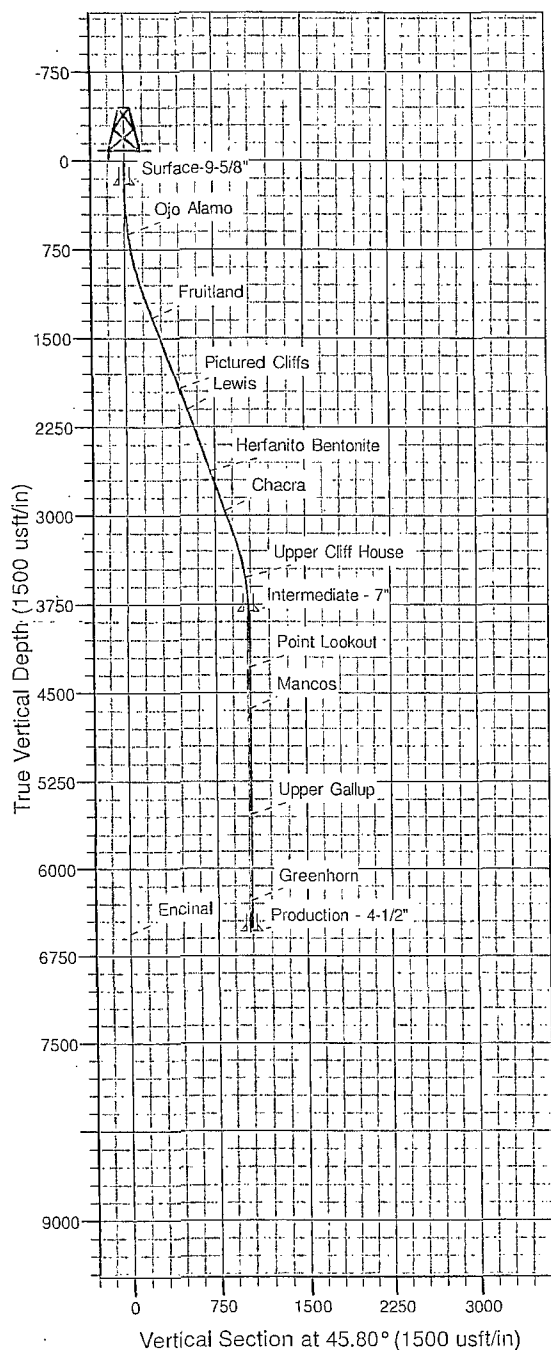
Well: Cooper #3P

APD Plan

ConocoPhillips

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	200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.0	
3	1225.0	20.50	45.80	1203.3	126.5	130.1	2.00	45.80	181.4	
4	3313.9	20.50	45.80	3159.9	636.5	654.6	0.00	0.00	913.0	
5	3997.3	0.00	0.00	3828.8	720.8	741.3	3.00	180.00	1033.9	
6	6708.5	0.00	0.00	6540.0	720.8	741.3	0.00	0.00	1033.9	Cooper #3P BHL

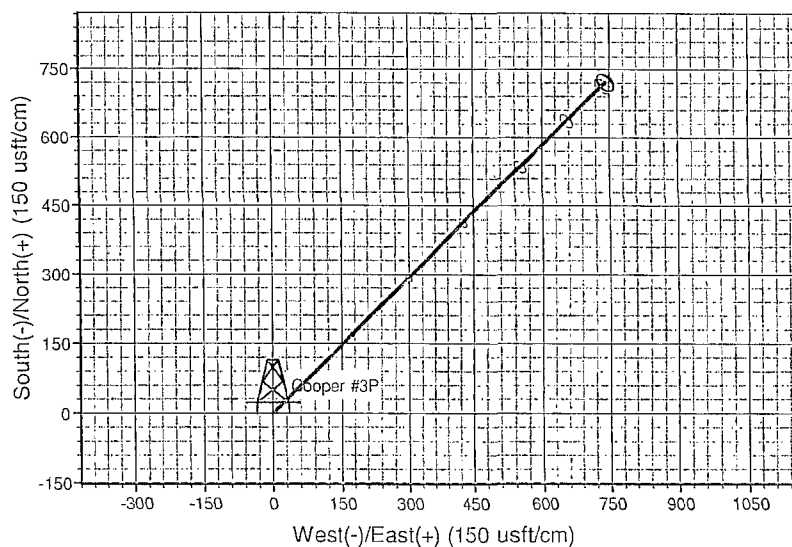
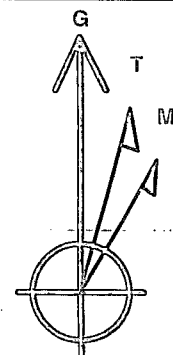


FORMATION TOP DETAILS

TVDPPath	MDPath	Formation
0.0	0.0	Nacimiento
621.0	622.5	Ojo Alamo
729.0	732.1	Kirtland
1328.0	1358.2	Fruitland
1925.0	1995.5	Pictured Cliffs
2102.0	2184.5	Lewis
2623.0	2740.7	Herfanito Bentonite
2962.0	3102.6	Chacra
3525.0	3692.2	Upper Cliff House
3617.0	3785.1	Massive Cliff House
3664.0	3832.3	Menefee
4285.0	4453.5	Point Lookout
4640.0	4808.5	Mancos
5532.0	5700.5	Upper Gallup
6276.0	6444.5	Greenhorn
6326.0	6494.5	Graneros
6360.0	6528.5	Two Wells
6456.0	6624.5	Paguate
6510.0	6678.5	Cubero

Azimuths to Grid North
True North: 0.12°
Magnetic North: 9.84°

Magnetic Field
Strength: 50322.8snT
Dip Angle: 63.37°
Date: 7/9/2014
Model: BGGM2014



E. All construction materials will consist of native borrow and subsoil accumulated during road construction. If additional fill or surfacing material is required, it will be obtained from existing permitted or private sources and will be hauled in by trucks over existing Resource roads to the area.

F. For well pad cut and fill see Sheet F.

G. As determined during the onsite on 6-25-14, the following best management practices will be implemented:

1. Drainage will be above slope draining around pad
2. Storage of topsoil will be 6" of soil stacked in construction area around well pad.
3. Noxious weed will be sprayed before construction.
4. Low Profile equipment will be used.

H. Construction equipment may include chain saws, a brush hog, scraper, maintainer, excavator, hydraulic mulcher, chippers and dozer. Construction of the resource road and well pad will take approximately 2 to 4 weeks.

I. The resource road and well pad are on lease so no additional ROW will be required.

J. Construction contractors will call New Mexico One-Call (or equivalent) to identify the location of any marked or unmarked pipeline or cables located in proximity to the proposed resource road and well pad at least two working days prior to ground disturbance.

K. All operations will be conducted in such a manner that full compliance is made with the applicable laws and regulations, the Application for Permit to Drill, and applicable Notice(s) to Lessees.

VII. Methods for Handling Waste

A. Cuttings, Drilling Fluids, and Flowback Water - The drill cuttings, drill water and completion fluids will be placed in a lined reserve pit. The pit will be lined with 20m gage pit liner. The reserve pit will be fenced on three sides away from the pad during drilling and the fourth side fenced as soon as the rig moves out. The free fluids will be removed after completion or may be trucked and reused in drilling

operations or trucked to an approved disposal facility as indicated in Burlington Resources Drilling / Workover Pit Closure Procedure dated June 28, 2013 on file at the NMOCD office in Aztec, NM.

B. Garbage and other waste material - garbage, trash and other waste materials will be collected in a portable, self-contained and fully-enclosed trash container during drilling and completion operations. The accumulated trash will be removed, as needed, and will be disposed of at an authorized sanitary landfill. No trash will be buried or burned on location.

C. Sewage - self-contained, chemical toilets will be provided for human waste disposal. The toilet holding tanks will be pumped, as needed, and the contents thereof disposed of in an approved sewage disposal facility. The toilets will be onsite during all operations.

D. Immediately after drilling and completing activities have ceased, all debris and other waste materials not contained in the trash containers will be cleaned up and removed from the well location.

VIII. Ancillary Facilities

A. The proposed areas and access roads listed below could be utilized for staging of construction, drilling, and completion equipment to facilitate drilling operations. Additionally, staging could occur, within the permitted right-of-way, along the route shown on Sheet B and described on Sheet C. Staging could take place when the rig moves in or off location. Any proposed temporary use area will be returned to same or better condition than before operations began and will comply with the BLM FFO Bare Soil Reclamation Procedures.

1. Cooper #11 - UL N, 1140' FSL & 1450' FWL, Section 06, T29N, R11W (on lease)
2. Cooper # 3 - UL L, 1650' FSL & 990' FWL, Section 06, T29N, R11W (on lease)

IX. Well Site Layout

A. The proposed well pad layout is shown on Sheet G. Cross sections have been drafted to visualize the planned cuts and fill across the location. Refer to Section VI for construction materials and methods.

B. Office trailers equipped with living quarters will be provided on location during drilling and completions operations.

BURLINGTON RESOURCES OIL & GAS COMPANY LP

COOPER #3P

1110' FSL & 1456' FWL

LOCATED IN THE SE/4 SW/4 OF SECTION 6,

T29N, R11W, N.M.P.M.,

SAN JUAN COUNTY, NEW MEXICO

DIRECTIONS

- 1) FROM POST OFFICE IN AZTEC, NM, TRAVEL SOUTH ON HWY 550 3.1 MILES TO DIRT ROAD ON RIGHT.
- 2) TURN RIGHT AND TRAVEL ROAD 3.5 MILES TO WHERE ACCESS IS FLAGGED ON THE LEFT.

WELL FLAG LOCATED AT LAT. 36.750511° N, LONG. 108.036152° W (NAD 83).

JOB No.: CGPC491
DATE: 03/12/14



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(505) 334-4007

SHEET C