

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

David Martin
Cabinet Secretary

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

David R. Catanach, Division Director
Oil Conservation Division



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: 10-1-14

Well information;

Operator Burlington, Well Name and Number Schumacher 1C

API# 30-045-35614, Section 17, Township 30 N/S, Range 10 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

4-2-2015
Date

OIL CONS. DIV DIST. 3

MAR 30 2015

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

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

APPLICATION FOR PERMIT TO DRILL OR RE-ENTER

OCT 06 2014

1a. Type of Work ☒ DRILL ☐ RE-ENTER
b. Type of Well: ☐ Oil Well ☒ Gas Well

Other: _____

Farmington Field Office
Bureau of Land Management

2. Name of Operator
Burlington Resources Oil & Gas Company

3. Address:
PO Box 4289, Farmington, NM 87499

3a. Phone No. (include area code)
(505) 326-9700

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface **Unit J (NWSE), 2018' FSL & 2008' FEL**

Latitude **36.81051 (NAD 83)**

Longitude **107.90540 (NAD 83)**

At BHL **Unit F (SENW), 1869' FNL & 2290' FWL**

Latitude **36.81382 (NAD 83)**

Longitude **107.90824 (NAD 83)**

5. Lease Serial

SF-077764

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

8. Lease Name and Well No.

Schumacher 1C

9. API Well No.

30-045-35614

10. Field and Pool or Exploratory

Blanco MV

11. Sec., T., R., M., on Block and Survey or Area

Suf: **Sec. 17, T30N, R10W**

BHL: **Sec. 17, T30N, R10W**

12. County or Parish

San Juan

13. State

New Mexico

14. Distance in miles from Nearest Town

5 miles from Aztec

15. Distance from Proposed Location to

Nearest Property or Lease Line: **1869'**

16. Acres in Lease

1,098.17

17. Acres Assigned to Well:

320.00 Acres N/2 - MV

18. Distance from Proposed Location to Nearest Well,
Drig. Compl, or Applied for on this lease

411' from Schumacher 1E - DK (BR)

19. Proposed Depth

5809'

20. Rotary or Cable Tools

Rotary

21. Elevations (DF, FT, GR, Etc.)

6465'

22. Approx. Date Work will Start

23. Proposed Casing and Cementing Program
See Operations Plan attached

24. Authorized by:

Arleen White

(Staff Regulatory Tech)

Date

10-1-14

PERMIT NO. _____

APPROVAL DATE _____

APPROVED BY: **Joe. Hunt**

TITLE **Acting AFM**

DATE **3-25-15**

Archaeological Report attached

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

Threatened and Endangered Species Report attached

NOTE: This format is issued in lieu of U.S.BLM Form 3160-3

Title 18 U.S.C Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or presentations as to any matter within its jurisdiction.

Example Master Plan Type **3**

Bond Numbers **NMB-000015 and NMB-000089**

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

OPERATOR

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

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

Drilling Condition of Approval

As a condition of approval, Burlington Resources must provide the BLM Farmington Field Office a copy of the H2S Contingency Plan associated to this well, prior to spud.

DISTRICT I

1025 N. French Dr., Hobbs, N.M. 88240
Phone: (505) 593-6161 Fax: (505) 593-0720

DISTRICT II

811 S. First St., Artesia, N.M. 88210
Phone: (505) 748-1253 Fax: (505) 748-0720

DISTRICT III

1000 Rio Grande Rd., Aztec, N.M. 87410
Phone: (505) 334-6179 Fax: (505) 334-6170

DISTRICT IV

1820 S. R. Francis Dr., Santa Fe, NM 87506
Phone: (505) 478-8480 Fax: (505) 478-8483

State of New Mexico
Energy, Minerals & Natural Resources Department

RECEIVED

Form C-102
Revised August 1, 2011

OCT 06 2014

Submit one copy to appropriate
District Office

OIL CONSERVATION DIVISION

1220 South St. Francis Farmington Field Office
Santa Fe, NM 87505

Bureau of Land Management AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045- 35614	² Pool Code 72319	³ Pool Name BLANCO MESAVERDE
⁴ Property Code 7491	⁵ Property Name SCHUMACHER	⁶ Well Number 1 C
⁷ GRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	⁹ Elevation 6465'

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	17	30N	10W	2	2018'	SOUTH	2008'	EAST	SAN JUAN

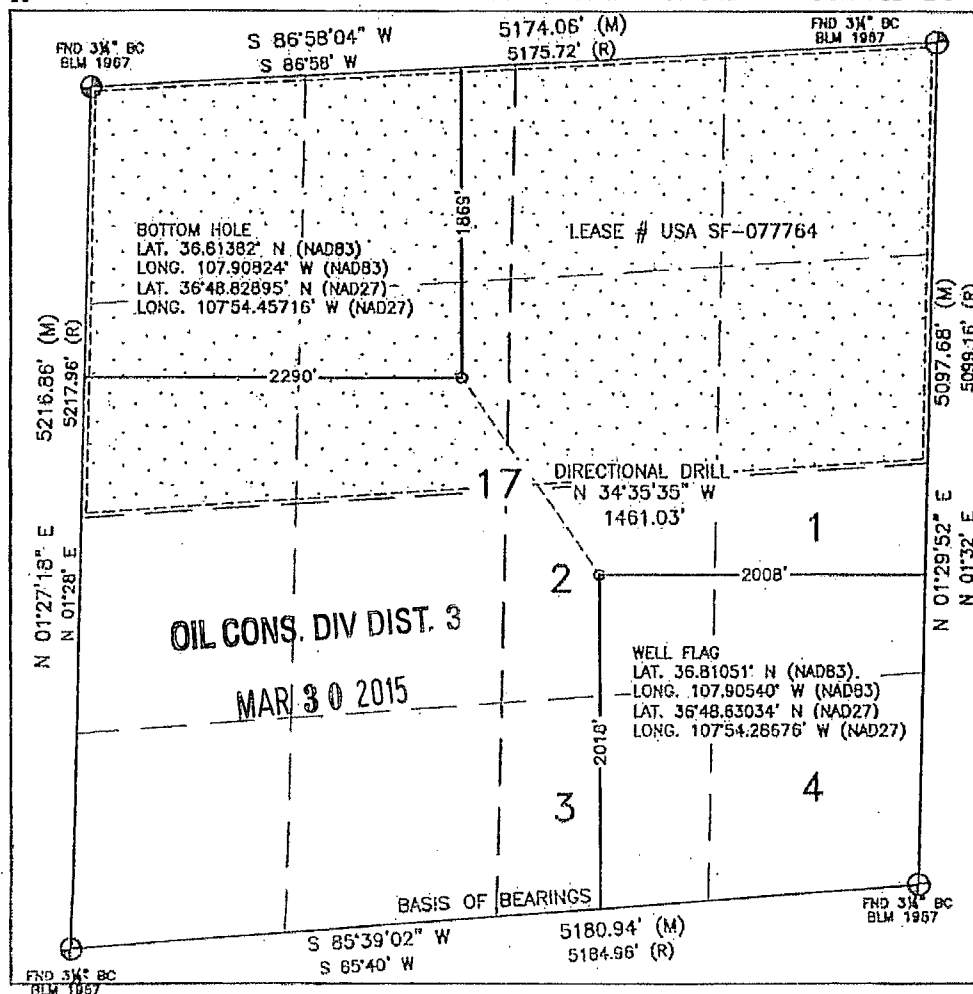
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	17	30N	10W		1869'	NORTH	2290'	WEST	SAN JUAN

¹² Dedicated Acres 320.00 ACRES N/2 - MV	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

10



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.

Patsy Clugston 6/17/14
Signature Date

Patsy Clugston

Printed Name

Patsy.L.Clugston@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 20, 2012

Date of Survey

Signature and Seal of Professional Surveyor:

David R. Russell
DAVID R. RUSSELL
REGISTERED PROFESSIONAL LAND SURVEYOR
NEW MEXICO
10201

DAVID RUSSELL

Certificate Number

10201

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SCHUMACHER 1C

DEVELOPMENT

Lease:		AFE #: WAN.CDR.4007				AFE \$:	
Field Name: SAN JUAN		Rig: 2016 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)					
Location: Surface		Datum Code: NAD 27				Directional	
Latitude: 36.810506	Longitude: -107.904779	X:	Y:	Section: 17	Range: 010W		
Footage X: 2008 FEL	Footage Y: 2018 FSL	Elevation: 6465	(FT)	Township: 030N			
Tolerance:							
Location: Bottom Hole		Datum Code: NAD 27				Directional	
Latitude: 36.813816	Longitude: -107.907619	X:	Y:	Section: 17	Range: 010W		
Footage X: 2290 FWL	Footage Y: 1869 FNL	Elevation:	(FT)	Township: 030N			
Tolerance:							
Location Type: Year Round		Start Date (Est.): 1/1/2016		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6480 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
SAN JOSE	0	6480		☐			Surface geology
NACIMIENTO	304	6176		☐			
Surface Casing	320	6160		☐			12-1/4 hole. 320' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 168 cuft. Circulate cement to surface.
OJO ALAMO	1656	4824		☐			
KIRTLAND	1784	4696		☐			
FRUITLAND	2457	4023		☐			Possible Gas
PICTURED CLIFFS	3046	3434		☐			
LEWIS	3216	3264		☐			
HUERFANITO BENTONITE	3768	2712		☐			
CHACRA	4024	2456		☐			
UPPER CLIFF HOUSE	4559	1921		☐			
MASSIVE CLIFF HOUSE	4654	1826		☐	588		This location is south of wet Cliff House line.
MENEFEE	4820	1660		☐			
Intermediate Casing	4970	1510		☐	146		8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 1173 cuft. Circulate cement to surface.
POINT LOOKOUT	5309	1171		☐			
MANCOS	5694	786		☐			Est bottom perf 5690'
Total Depth	5809	671		☐	164		6-1/4" hole, 4-1/2" 11.6 ppf, J-55/L/N-80, LTC/BTC casing. Cement w/ 119 cuft. Circulate cement a minimum of 100' inside the previous casing string.
Reference Wells:							
Reference Type	Well Name		Comments				

ConocoPhillips SJB

San Juan Basin - New Mexico West Wells

Other Named Wells

Schumacher #1C

Wellbore #1

Plan: APD Plan

Standard Planning Report

24 July, 2014

ConocoPhillips

Planning Report

Databaso:	EDM Central-Planning	Local Co-ordinate Reference:	Well: Schumacher #1C
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6480.0usft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6480.0usft (Original Well Elev)
Site:	Other Named Wells	North Reference:	Grid
Well:	Schumacher #1C	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	APD Plan		

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	Schumacher #1C		
Well Position	+N/-S	0.0 usft	Latitude: 36° 48' 37.820 N
	+E/-W	0.0 usft	Longitude: 107° 54' 17.205 W
Position Uncertainty	2.5 usft	Wellhead Elevation:	usft
		Ground Level:	6,465.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2014	7/24/2014	9.66	63.44	50,363

Design	APD Plan			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	325.44

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	
350.0	0.00	0.00	350.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,426.2	21.52	325.44	1,401.0	164.5	-113.3	2.00	2.00	0.00	325.44	
4,509.4	21.52	325.44	4,269.3	1,096.1	-755.0	0.00	0.00	0.00	0.00	
5,226.9	0.00	0.00	4,970.0	1,205.8	-830.5	3.00	-3.00	0.00	180.00	Schumacher #1C ICP
6,065.9	0.00	0.00	5,809.0	1,205.8	-830.5	0.00	0.00	0.00	0.00	Schumacher #1C BHI

ConocoPhillips
Planning Report

Database:	EDM-Central Planning	Local Co-ordinate Reference:	Well Schumacher #1C
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6480.0usft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6480.0usft (Original Well Elev)
Site:	Other Named Wells	North Reference:	Grid
Well:	Schumacher #1C	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	APD Plan		

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
304.0	0.00	0.00	304.0	0.0	0.0	0.0	0.00	0.00	0.00
NACIMIENTO									
320.0	0.00	0.00	320.0	0.0	0.0	0.0	0.00	0.00	0.00
Surface 9-5/8"									
350.0	0.00	0.00	350.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	1.00	325.44	400.0	0.4	-0.2	0.4	2.00	2.00	0.00
500.0	3.00	325.44	499.9	3.2	-2.2	3.9	2.00	2.00	0.00
600.0	5.00	325.44	599.7	9.0	-6.2	10.9	2.00	2.00	0.00
700.0	7.00	325.44	699.1	17.6	-12.1	21.4	2.00	2.00	0.00
800.0	9.00	325.44	798.2	29.0	-20.0	35.3	2.00	2.00	0.00
900.0	11.00	325.44	896.6	43.3	-29.9	52.6	2.00	2.00	0.00
1,000.0	13.00	325.44	994.4	60.5	-41.6	73.4	2.00	2.00	0.00
1,100.0	15.00	325.44	1,091.5	80.4	-55.4	97.6	2.00	2.00	0.00
1,200.0	17.00	325.44	1,187.6	103.1	-71.0	125.2	2.00	2.00	0.00
1,300.0	19.00	325.44	1,282.7	128.5	-88.5	156.1	2.00	2.00	0.00
1,400.0	21.00	325.44	1,376.6	156.7	-107.9	190.3	2.00	2.00	0.00
1,426.2	21.52	325.44	1,401.0	164.5	-113.3	199.8	2.00	2.00	0.00
1,500.0	21.52	325.44	1,469.7	186.8	-128.7	226.9	0.00	0.00	0.00
1,600.0	21.52	325.44	1,562.7	217.0	-149.5	263.5	0.00	0.00	0.00
1,700.0	21.52	325.44	1,655.8	247.3	-170.3	300.2	0.00	0.00	0.00
1,700.2	21.52	325.44	1,656.0	247.3	-170.4	300.3	0.00	0.00	0.00
OJO ALAMO									
1,800.0	21.52	325.44	1,748.8	277.5	-191.1	336.9	0.00	0.00	0.00
1,837.8	21.52	325.44	1,784.0	288.9	-199.0	350.8	0.00	0.00	0.00
KIRTLAND									
1,900.0	21.52	325.44	1,841.8	307.7	-211.9	373.6	0.00	0.00	0.00
2,000.0	21.52	325.44	1,934.9	337.9	-232.7	410.3	0.00	0.00	0.00
2,100.0	21.52	325.44	2,027.9	368.1	-253.5	447.0	0.00	0.00	0.00
2,200.0	21.52	325.44	2,120.9	398.3	-274.4	483.7	0.00	0.00	0.00
2,300.0	21.52	325.44	2,213.9	428.5	-295.2	520.4	0.00	0.00	0.00
2,400.0	21.52	325.44	2,307.0	458.8	-316.0	557.0	0.00	0.00	0.00
2,500.0	21.52	325.44	2,400.0	489.0	-336.8	593.7	0.00	0.00	0.00
2,561.3	21.52	325.44	2,457.0	507.5	-349.5	616.2	0.00	0.00	0.00
FRUITLAND									
2,600.0	21.52	325.44	2,493.0	519.2	-357.6	630.4	0.00	0.00	0.00
2,700.0	21.52	325.44	2,586.0	549.4	-378.4	667.1	0.00	0.00	0.00
2,800.0	21.52	325.44	2,679.1	579.6	-399.2	703.8	0.00	0.00	0.00
2,900.0	21.52	325.44	2,772.1	609.8	-420.0	740.5	0.00	0.00	0.00
3,000.0	21.52	325.44	2,865.1	640.0	-440.8	777.2	0.00	0.00	0.00
3,100.0	21.52	325.44	2,958.1	670.3	-461.7	813.9	0.00	0.00	0.00
3,194.4	21.52	325.44	3,046.0	698.8	-481.3	848.5	0.00	0.00	0.00
PICTURED CLIFFS									
3,200.0	21.52	325.44	3,051.2	700.5	-482.5	850.5	0.00	0.00	0.00
3,300.0	21.52	325.44	3,144.2	730.7	-503.3	887.2	0.00	0.00	0.00
3,377.2	21.52	325.44	3,216.0	754.0	-519.3	915.6	0.00	0.00	0.00
LEWIS									
3,400.0	21.52	325.44	3,237.2	760.9	-524.1	923.9	0.00	0.00	0.00
3,500.0	21.52	325.44	3,330.3	791.1	-544.9	960.6	0.00	0.00	0.00
3,600.0	21.52	325.44	3,423.3	821.3	-565.7	997.3	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDM-Central.Planning	Local Co-ordinate Reference:	Well Schumacher #1C
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6480.0usft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6480.0usft (Original Well Elev)
Site:	Other Named Wells	North Reference:	Grid
Well:	Schumacher #1C	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	APD Plan		

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	21.52	325.44	3,516.3	851.5	-586.5	1,034.0	0.00	0.00	0.00	
3,800.0	21.52	325.44	3,609.3	881.8	-607.3	1,070.7	0.00	0.00	0.00	
3,900.0	21.52	325.44	3,702.4	912.0	-628.1	1,107.4	0.00	0.00	0.00	
3,970.6	21.52	325.44	3,768.0	933.3	-642.8	1,133.2	0.00	0.00	0.00	
HUERFANITO BENTONITE										
4,000.0	21.52	325.44	3,795.4	942.2	-648.9	1,144.1	0.00	0.00	0.00	
4,100.0	21.52	325.44	3,888.4	972.4	-669.8	1,180.7	0.00	0.00	0.00	
4,200.0	21.52	325.44	3,981.4	1,002.6	-690.6	1,217.4	0.00	0.00	0.00	
4,245.7	21.52	325.44	4,024.0	1,016.4	-700.1	1,234.2	0.00	0.00	0.00	
CHACRA										
4,300.0	21.52	325.44	4,074.5	1,032.8	-711.4	1,254.1	0.00	0.00	0.00	
4,400.0	21.52	325.44	4,167.5	1,063.0	-732.2	1,290.8	0.00	0.00	0.00	
4,509.4	21.52	325.44	4,269.3	1,096.1	-755.0	1,331.0	0.00	0.00	0.00	
4,600.0	18.81	325.44	4,354.3	1,121.8	-772.7	1,362.2	3.00	-3.00	0.00	
4,700.0	15.81	325.44	4,449.8	1,146.3	-789.5	1,391.9	3.00	-3.00	0.00	
4,800.0	12.81	325.44	4,546.7	1,166.7	-803.6	1,416.6	3.00	-3.00	0.00	
4,812.6	12.43	325.44	4,559.0	1,168.9	-805.1	1,419.4	3.00	-3.00	0.00	
UPPER CLIFF HOUSE										
4,900.0	9.81	325.44	4,644.7	1,182.8	-814.7	1,436.2	3.00	-3.00	0.00	
4,909.4	9.52	325.44	4,654.0	1,184.1	-815.6	1,437.8	3.00	-3.00	0.00	
MASSIVE CLIFF HOUSE										
5,000.0	6.81	325.44	4,743.6	1,194.7	-822.9	1,450.7	3.00	-3.00	0.00	
5,076.7	4.50	325.44	4,820.0	1,200.9	-827.2	1,458.2	3.00	-3.00	0.00	
MENELEE										
5,100.0	3.81	325.44	4,843.2	1,202.3	-828.1	1,459.9	3.00	-3.00	0.00	
5,200.0	0.81	325.44	4,943.1	1,205.6	-830.4	1,463.9	3.00	-3.00	0.00	
5,226.9	0.00	0.00	4,970.0	1,205.8	-830.5	1,464.1	3.00	-3.00	0.00	
Production - 7"										
5,300.0	0.00	0.00	5,043.1	1,205.8	-830.5	1,464.1	0.00	0.00	0.00	
5,400.0	0.00	0.00	5,143.1	1,205.8	-830.5	1,464.1	0.00	0.00	0.00	
5,500.0	0.00	0.00	5,243.1	1,205.8	-830.5	1,464.1	0.00	0.00	0.00	
5,565.9	0.00	0.00	5,309.0	1,205.8	-830.5	1,464.1	0.00	0.00	0.00	
POINT LOOKOUT										
5,600.0	0.00	0.00	5,343.1	1,205.8	-830.5	1,464.1	0.00	0.00	0.00	
5,700.0	0.00	0.00	5,443.1	1,205.8	-830.5	1,464.1	0.00	0.00	0.00	
5,800.0	0.00	0.00	5,543.1	1,205.8	-830.5	1,464.1	0.00	0.00	0.00	
5,900.0	0.00	0.00	5,643.1	1,205.8	-830.5	1,464.1	0.00	0.00	0.00	
5,950.9	0.00	0.00	5,694.0	1,205.8	-830.5	1,464.1	0.00	0.00	0.00	
MANCOS										
6,000.0	0.00	0.00	5,743.1	1,205.8	-830.5	1,464.1	0.00	0.00	0.00	
6,065.9	0.00	0.00	5,809.0	1,205.8	-830.5	1,464.1	0.00	0.00	0.00	
Production - 4-1/2"										

ConocoPhillips

Planning Report

Database:	EDM/Central Planning	Local Co-ordinate Reference:	Well Schumacher #1C
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6480.0usft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6480.0usft (Original Well Elev)
Site:	Other Named Wells	North Reference:	Grid
Well:	Schumacher #1C	Survey/Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	APD Plan		

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Schumacher #1C BHL - hit/miss target - Shape	0.00	0.00	5,809.0	1,205.8	-830.5	2,115,496.93	478,254.59	36° 48' 49.737 N	107° 54' 27.429 W
Schumacher #1C ICP - plan hits target center - Point	0.00	0.00	4,970.0	1,205.8	-830.5	2,115,496.93	478,254.59	36° 48' 49.737 N	107° 54' 27.429 W

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
320.0	320.0	Surface-9-5/8"	9-5/8	12-1/4	
5,226.9	4,970.0	Production - 7"	7	8-3/4	
6,065.9	5,809.0	Production - 4-1/2"	4-1/2	6-1/4	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
304.0	304.0	NACIMIENTO		0.00		
5,950.9	5,694.0	MANCOS		0.00		
4,812.6	4,559.0	UPPER CLIFF HOUSE		0.00		
3,194.4	3,046.0	PICTURED CLIFFS		0.00		
1,837.8	1,784.0	KIRTLAND		0.00		
2,561.3	2,457.0	FRUITLAND		0.00		
5,076.7	4,820.0	MENEFEE		0.00		
1,700.2	1,656.0	OJO ALAMO		0.00		
4,245.7	4,024.0	CHACRA		0.00		
3,377.2	3,216.0	LEWIS		0.00		
3,970.6	3,768.0	HUERFANITO BENTONITE		0.00		
5,565.9	5,309.0	POINT LOOKOUT		0.00		
4,909.4	4,654.0	MASSIVE CLIFF HOUSE		0.00		

REFERENCE INFORMATION

WELL @ 6480.0usft (Original Well Elev)
Ground Elevation 6465.0
Reference Lat: 36° 48' 37.820 N
Reference Long: 107° 54' 17.205 W

Project: San Juan Basin - New Mexico West V

Other Named Wells

Well: Schumacher #1C

APD Plan

ConocoPhillips

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	1426.2	21.52	325.44	1401.0	164.5	-113.3	2.00	325.44	199.8	
4	4509.4	21.52	325.44	4269.3	1096.1	-755.0	0.00	0.00	1331.0	
5	5226.9	0.00	0.00	4970.0	1205.8	-830.5	3.00	180.00	1464.1	Schumacher #1C ICP
6	6065.9	0.00	0.00	5809.0	1205.8	-830.5	0.00	0.00	1464.1	Schumacher #1C BHL

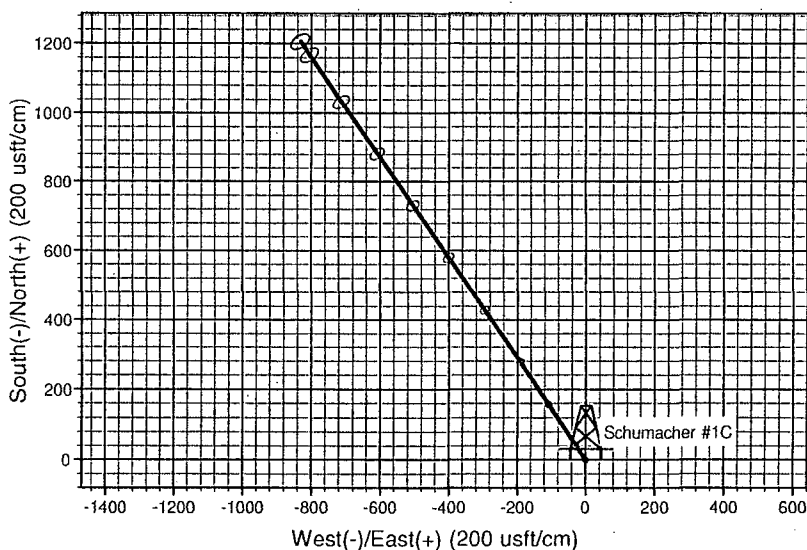
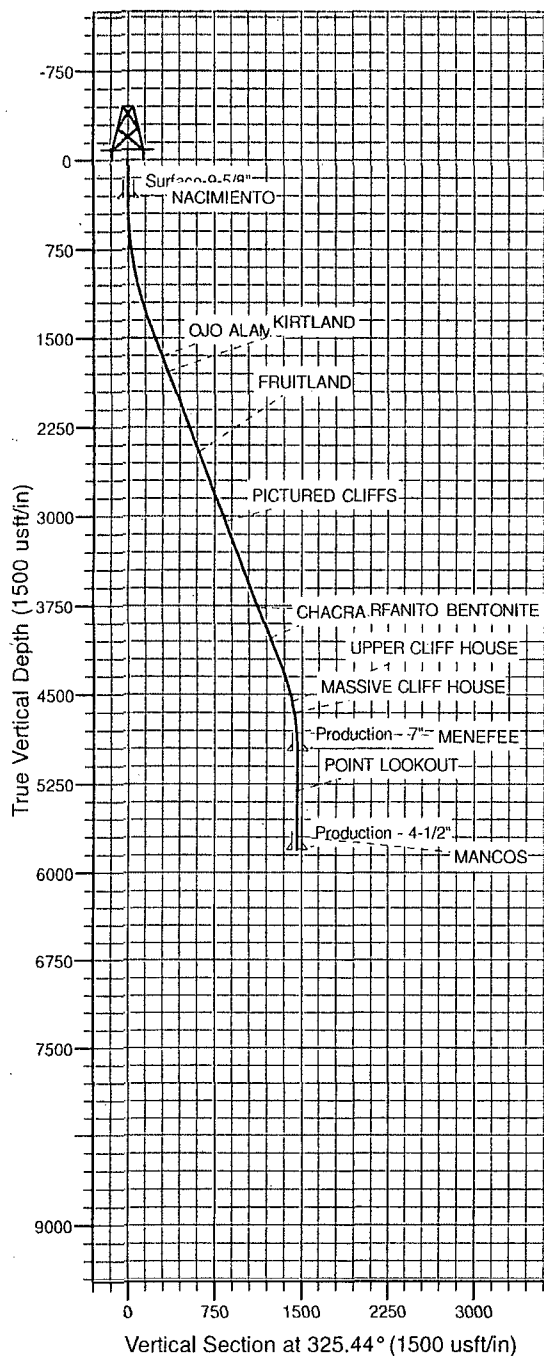
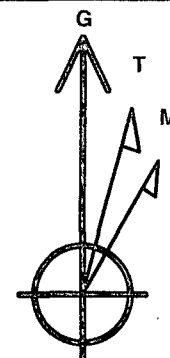
FORMATION TOP DETAILS

TVDPath	MDPath
304.0	304.0
1656.0	1700.2
1784.0	1837.8
2457.0	2561.3
3046.0	3194.4
3216.0	3377.2
3768.0	3970.6
4024.0	4245.7
4559.0	4812.6
4654.0	4909.4
4820.0	5076.7
5309.0	5565.9
5694.0	5950.9

Formation
NACIMIENTO
OJO ALAMO
KIRTLAND
FRUITLAND
PICTURED CLIFFS
LEWIS
HUERFANITO BENTONITE
CHACRA
UPPER CLIFF HOUSE
MASSIVE CLIFF HOUSE
MENEFE
POINT LOOKOUT
MANCOS

Azimuths to Grid North
True North: 0.04°
Magnetic North: 9.71°

Magnetic Field
Strength: 50362.5nT
Dip Angle: 63.44°
Date: 7/24/2014
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 7-10-14, the following best management practices will be implemented:

1. Drainage will be above slope draining away from well pad
2. Storage of topsoil will stacked in construction area around well pad
3. Mow, slash and incorporate into top soil.
4. Low Profile equipment with noise strips
5. Juniper Green paint
6. Upgrade road to Hwy 13.

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

BURLINGTON RESOURCES OIL & GAS COMPANY LP

SCHUMACHER #1 C

2018' FSL & 2008' FEL

LOCATED IN THE NW/4 SE/4 OF SECTION 17,

T30N, R10W, N.M.P.M.,

SAN JUAN COUNTY, NEW MEXICO

DIRECTIONS

- 1) FROM AZTEC NM, TRAVEL US HWY 550 NORTH TO STATE HWY 173.
- 2) TRAVEL STATE HWY 173 1.0 MILE AND TURN LEFT.
- 3) CONTINUE ON STATE HWY 173 AND TRAVEL 3.6 MILES.
- 4) TURN LEFT ON FIELD ROAD AND TRAVEL 0.1 MILE.
- 5) TURN RIGHT AND TRAVEL 0.3 MILES.
- 6) TURN LEFT AND TRAVEL 0.1 MILE TO EXISTING WELL AND NEW ACCESS.

WELL FLAG LOCATED AT LAT. 36.81051° N, LONG. 107.90540° W (NAD 83).

JOB No.: COPC322
DATE: 06/27/12



Russell Surveying
1409 W. Aztec Blvd. #2
Aztec, New Mexico 87410
(505) 334-8637