

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

Jami Bailey, 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: 6/25/14

Well information;

Operator Burlington, Well Name and Number Florance # 2M

API# 30-045-35566, Section 21, Township 30 N S, Range 9 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.

Charles P. ...
NMOCD Approved by Signature

9-9-2014
Date KC

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

APPLICATION FOR PERMIT TO DRILL OR RE-ENTER

JUN 26 2014

5. Lease Serial

SF-080244

1a. Type of Work ☒ DRILL ☐ RE-ENTER

b. Type of Well: ☐ Oil Well ☒ Gas Well

Farmington Field Office
Bureau of Land Management

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

Other: _____

2. Name of Operator

Burlington Resources Oil & Gas Company

8. Lease Name and Well No.

Florance 2M

3. Address:

PO Box 4289, Farmington, NM 87499

3a. Phone No. (include area code)

(505) 326-9700

9. API Well No.

30-045-35566

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

At surface Unit J (NW/SE), 1531' FSL & 1330' FEL

Latitude 36.79413 ° N

Longitude 107.78137 ° W (NAD 83)

At BHL Unit P (SE/SE), 710' FSL & 710' FEL

Latitude 36.79187 ° N

Longitude 107.77934 ° W (NAD 83)

10. Field and Pool or Exploratory

Blanco MV / Basin DK

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

Suf: Sec. 21, T30N, R9W

BHL: Sec. 21, T30N, R9W

12. County or Parish

San Juan

13. State

New Mexico

14. Distance in miles from Nearest Town

13 Miles from Aztec

15. Distance from Proposed Location to

Nearest Property or Lease Line: 710'

16. Acres in Lease

1120

17. Acres Assigned to Well:

320.00 Acres S/2 - DK

320.00 Acres S/2 - MV

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

272' from Florance 2A - MV

19. Proposed Depth

7234'

20. Rotary or Cable Tools

Rotary

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

5954'

22. Approx. Date Work will Start

23. Proposed Casing and Cementing Program

See Operations Plan attached

RCVD SEP 2 '14

OIL CONS. DIV.

6/25/14 DIST. 3

24. Authorized by:

Arleen White

(Staff Regulatory Tech)

Date

PERMIT NO.

APPROVAL DATE

APPROVED BY:

TITLE

DATE

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

3

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

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

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

NMOCDA

Pc

District I
1625 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 Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 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

RECEIVED
JUN 26 2014

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

Farmington Field Office
Bureau of Land Management
AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045- 35566	² Pool Code 72319 / 71599	³ Pool Name BLANCO MESAVERDE / BASIN DAKOTA
⁴ Property Code 7621 A720344	⁵ Property Name FLORANCE	⁶ Well Number 2M
⁷ OGRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP	⁹ Elevation 5954

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	21	30-N	9-W		1531	SOUTH	1330	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	21	30-N	9-W		710	SOUTH	710	EAST	SAN JUAN

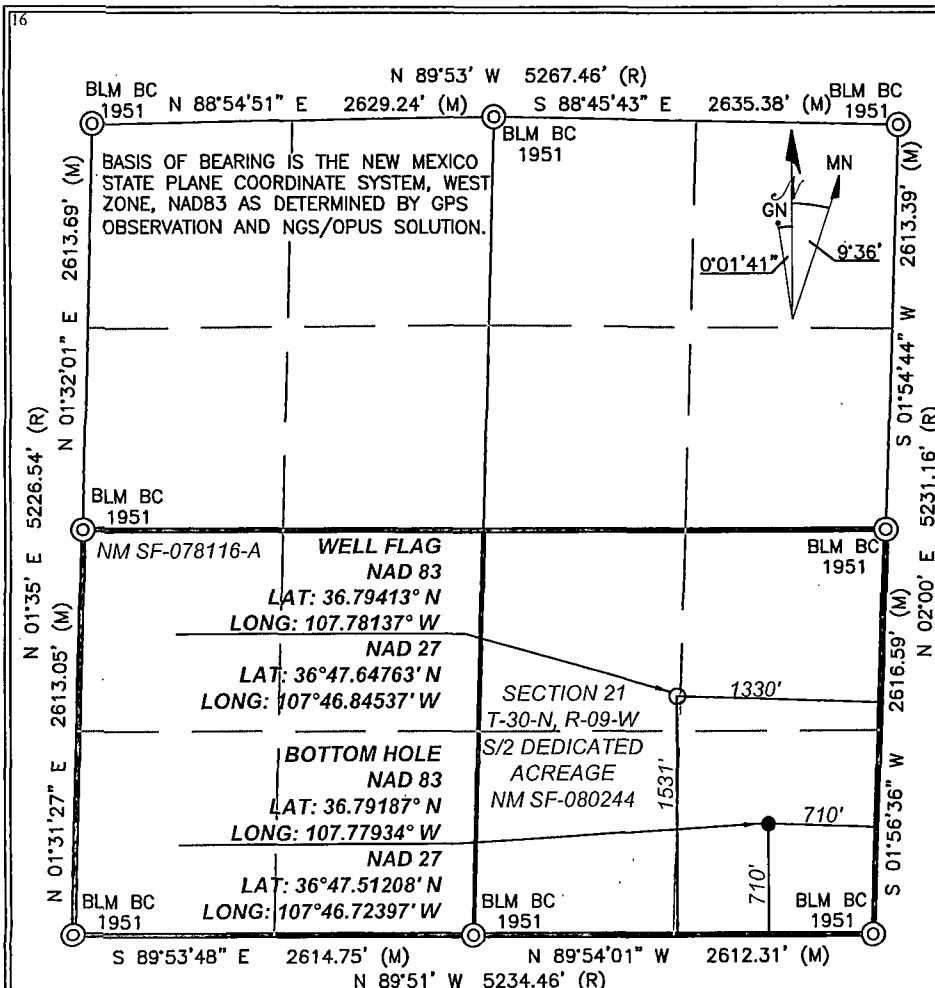
¹² Dedicated Acres S/2(320)MV S/2(320)DK	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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RCVD SEP 2 '14

OIL CONG. DIV.

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.

DIST. 3



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.

Arleen White 2/17/14

Signature Date

Arleen White

Printed Name

arleen.r.white@conocophillips.com

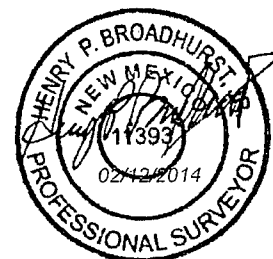
E-mail Address

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.

Date of Survey: 02/06/2014

Signature and Seal of Professional Surveyor:



Certificate Number: NM 11393

PROJECT PROPOSAL - New Drill / Sidetrack

FLORANCE 2M

DEVELOPMENT

Lease:		AFE #: WAN.CDR.3059				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						
FRR	BASIN DAKOTA (PRORATED GAS)						
RON	BLANCO MESAVERDE (PRORATED GAS)						
Location: Surface Datum Code: NAD 27 Directional							
Latitude: 36.795280	Longitude: -107.778235	X: 515394.67	Y: 2108325.04	Section: 21	Range: 009W		
Footage X: 1330 FEL	Footage Y: 1531 FSL	Elevation: 5954	(FT)	Township: 030N			
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27 Directional							
Latitude: 36.791868	Longitude: -107.778733	X: 515987.48	Y: 2107502.98	Section: 21	Range: 009W		
Footage X: 710 FEL	Footage Y: 710 FSL	Elevation:	(FT)	Township: 030N			
Tolerance:							
Location Type: Year Round		Start Date (Est.): 1/1/2016		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 5969 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
NACIMIENTO	0	5969		☐			Surface geology
Surface Casing	200	5769		☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 112cuft. Circulate cement to surface.
OJO ALAMO	1383	4586		☐			
KIRTLAND	1572	4397		☐			
FRUITLAND	2130	3839		☐	93		Possible Gas
PICTURED CLIFFS	2673	3296		☐	91		
LEWIS	2809	3160		☐			
HUERFANITO BENTONITE	3380	2589		☐			
CHACRA	3665	2304		☐			
Intermediate Casing	3825	2144		☐	112	8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 900 cuft. Circulate cement to surface.	
UPPER CLIFF HOUSE	4192	1777		☐			
MASSIVE CLIFF HOUSE	4305	1664		☐	218	142	Gas; Cliffhouse is dry
MENEFEE	4483	1486		☐			
POINT LOOKOUT	4936	1033		☐			
MANCOS	5262	707		☐			
UPPER GALLUP	6183	-214		☐			
GREENHORN	6930	-961		☐			
GRANEROS	6974	-1005		☐			
TWO WELLS	7006	-1037		☐	2599	195	Gas
PAGUATE	7114	-1145		☐			
UPPER CUBERO	7144	-1175		☐			

PROJECT PROPOSAL - New Drill / Sidetrack

FLORANCE 2M

DEVELOPMENT

LOWER CUBERO	7154	-1185	☐	
ENCINAL	7234	-1265	☐	TD at the top of Encinal. Est bottom perf 7219' TVD (15' from TD)
Total Depth	7234	-1265	☐	200 6-1/4" hole, 4-1/2" 11.6 ppf, N/L-80, LTC /BTC casing. Cement w/ 449 cuft. Circulate cement a minimum of 100' inside the previous casing string.

Reference Wells:

Reference Type	Well Name	Comments
Production	FLORANCE AC 3A	
Production	FLORANCE (AMO) 2	

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.

Additional Information:

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

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Florance 2M
Company:	ConocoPhillips SJBU	TVD Reference:	WELL @ 5969.0usft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 5969.0usft (Original Well Elev)
Site:	Other Named Wells	North Reference:	Grid
Well:	Florance 2M	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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
From:	Lat/Long	Easting:	643,887.63 usft
Position Uncertainty:	15.0 usft	Slot Radius:	6-1/8"
		Latitude:	36° 47' 33.793 N
		Longitude:	107° 20' 30.932 W
		Grid Convergence:	0.29 °

Well	Florance 2M		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	2.5 usft	Wellhead Elevation:	usft
		Latitude:	36° 47' 38.858 N
		Longitude:	107° 46' 50.722 W
		Ground Level:	5,954.0 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
			(°)
	BGGM2013	3/17/2014	9.62
			Dip Angle
			(°)
			Field Strength
			(nT)
			63.45
			50,425

Design	Design #1		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth:
			0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			144.20

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	
300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,350.0	21.00	144.20	1,326.6	-154.3	111.3	2.00	2.00	0.00	144.20	
3,293.7	21.00	144.20	3,141.3	-719.3	518.8	0.00	0.00	0.00	0.00	
3,993.7	0.00	0.00	3,825.7	-822.2	593.0	3.00	-3.00	0.00	180.00	
7,402.0	0.00	0.00	7,234.0	-822.2	593.0	0.00	0.00	0.00	0.00	Florance 2M BHL

ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Florance 2M
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 5969.0usft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 5969.0usft (Original Well Elev)
Site:	Other Named Wells	North Reference:	Grid
Well:	Florance 2M	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	2.00	144.20	400.0	-1.4	1.0	1.7	2.00	2.00	0.00
500.0	4.00	144.20	499.8	-5.7	4.1	7.0	2.00	2.00	0.00
600.0	6.00	144.20	599.5	-12.7	9.2	15.7	2.00	2.00	0.00
700.0	8.00	144.20	698.7	-22.6	16.3	27.9	2.00	2.00	0.00
800.0	10.00	144.20	797.5	-35.3	25.5	43.5	2.00	2.00	0.00
900.0	12.00	144.20	895.6	-50.8	36.6	62.6	2.00	2.00	0.00
1,000.0	14.00	144.20	993.1	-69.0	49.8	85.1	2.00	2.00	0.00
1,100.0	16.00	144.20	1,089.6	-90.0	64.9	111.0	2.00	2.00	0.00
1,200.0	18.00	144.20	1,185.3	-113.7	82.0	140.2	2.00	2.00	0.00
1,300.0	20.00	144.20	1,279.8	-140.1	101.1	172.8	2.00	2.00	0.00
1,350.0	21.00	144.20	1,326.6	-154.3	111.3	190.3	2.00	2.00	0.00
1,400.0	21.00	144.20	1,373.3	-168.9	121.8	208.2	0.00	0.00	0.00
1,410.4	21.00	144.20	1,383.0	-171.9	124.0	211.9	0.00	0.00	0.00
OJO ALAMO									
1,500.0	21.00	144.20	1,466.7	-197.9	142.7	244.0	0.00	0.00	0.00
1,600.0	21.00	144.20	1,560.0	-227.0	163.7	279.9	0.00	0.00	0.00
1,612.8	21.00	144.20	1,572.0	-230.7	166.4	284.5	0.00	0.00	0.00
KIRTLAND									
1,700.0	21.00	144.20	1,653.4	-256.1	184.7	315.7	0.00	0.00	0.00
1,800.0	21.00	144.20	1,746.8	-285.1	205.6	351.5	0.00	0.00	0.00
1,900.0	21.00	144.20	1,840.1	-314.2	226.6	387.4	0.00	0.00	0.00
2,000.0	21.00	144.20	1,933.5	-343.3	247.6	423.2	0.00	0.00	0.00
2,100.0	21.00	144.20	2,026.8	-372.3	268.5	459.1	0.00	0.00	0.00
2,200.0	21.00	144.20	2,120.2	-401.4	289.5	494.9	0.00	0.00	0.00
2,210.5	21.00	144.20	2,130.0	-404.4	291.7	498.7	0.00	0.00	0.00
FRUITLAND									
2,300.0	21.00	144.20	2,213.5	-430.5	310.4	530.7	0.00	0.00	0.00
2,400.0	21.00	144.20	2,306.9	-459.5	331.4	566.6	0.00	0.00	0.00
2,500.0	21.00	144.20	2,400.3	-488.6	352.4	602.4	0.00	0.00	0.00
2,600.0	21.00	144.20	2,493.6	-517.7	373.3	638.2	0.00	0.00	0.00
2,700.0	21.00	144.20	2,587.0	-546.7	394.3	674.1	0.00	0.00	0.00
2,792.1	21.00	144.20	2,673.0	-573.5	413.6	707.1	0.00	0.00	0.00
PICTURED CLIFFS									
2,800.0	21.00	144.20	2,680.3	-575.8	415.3	709.9	0.00	0.00	0.00
2,900.0	21.00	144.20	2,773.7	-604.9	436.2	745.7	0.00	0.00	0.00
2,937.8	21.00	144.20	2,809.0	-615.8	444.1	759.3	0.00	0.00	0.00
LEWIS									
3,000.0	21.00	144.20	2,867.1	-633.9	457.2	781.6	0.00	0.00	0.00
3,100.0	21.00	144.20	2,960.4	-663.0	478.1	817.4	0.00	0.00	0.00
3,200.0	21.00	144.20	3,053.8	-692.1	499.1	853.3	0.00	0.00	0.00
3,293.7	21.00	144.20	3,141.3	-719.3	518.8	886.8	0.00	0.00	0.00
3,300.0	20.81	144.20	3,147.1	-721.1	520.1	889.1	3.00	-3.00	0.00
3,400.0	17.81	144.20	3,241.5	-747.9	539.4	922.2	3.00	-3.00	0.00
3,500.0	14.81	144.20	3,337.5	-770.7	555.8	950.2	3.00	-3.00	0.00
3,543.9	13.50	144.20	3,380.0	-779.4	562.1	961.0	3.00	-3.00	0.00
HUERFANITO BENTONITE									
3,600.0	11.81	144.20	3,434.8	-789.4	569.3	973.3	3.00	-3.00	0.00

ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Florance 2M
Company:	ConocoPhillips SJBU	TVD Reference:	WELL @ 5969.0usft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 5969.0usft (Original Well Elev)
Site:	Other Named Wells	North Reference:	Grid
Well:	Florance 2M	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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	8.81	144.20	3,533.1	-803.9	579.8	991.2	3.00	-3.00	0.00
3,800.0	5.81	144.20	3,632.3	-814.2	587.2	1,003.9	3.00	-3.00	0.00
3,832.8	4.83	144.20	3,665.0	-816.7	589.0	1,006.9	3.00	-3.00	0.00
CHACRA									
3,900.0	2.81	144.20	3,732.0	-820.3	591.6	1,011.4	3.00	-3.00	0.00
3,993.7	0.00	0.00	3,825.7	-822.2	593.0	1,013.7	3.00	-3.00	0.00
INTERMEDIATE 7"									
4,000.0	0.00	0.00	3,832.0	-822.2	593.0	1,013.7	0.00	0.00	0.00
4,100.0	0.00	0.00	3,932.0	-822.2	593.0	1,013.7	0.00	0.00	0.00
4,200.0	0.00	0.00	4,032.0	-822.2	593.0	1,013.7	0.00	0.00	0.00
4,300.0	0.00	0.00	4,132.0	-822.2	593.0	1,013.7	0.00	0.00	0.00
4,360.0	0.00	0.00	4,192.0	-822.2	593.0	1,013.7	0.00	0.00	0.00
UPPER CLIFF HOUSE									
4,400.0	0.00	0.00	4,232.0	-822.2	593.0	1,013.7	0.00	0.00	0.00
4,473.0	0.00	0.00	4,305.0	-822.2	593.0	1,013.7	0.00	0.00	0.00
MASSIVE CLIFF HOUSE									
4,500.0	0.00	0.00	4,332.0	-822.2	593.0	1,013.7	0.00	0.00	0.00
4,600.0	0.00	0.00	4,432.0	-822.2	593.0	1,013.7	0.00	0.00	0.00
4,651.0	0.00	0.00	4,483.0	-822.2	593.0	1,013.7	0.00	0.00	0.00
MENEFEE									
4,700.0	0.00	0.00	4,532.0	-822.2	593.0	1,013.7	0.00	0.00	0.00
4,800.0	0.00	0.00	4,632.0	-822.2	593.0	1,013.7	0.00	0.00	0.00
4,900.0	0.00	0.00	4,732.0	-822.2	593.0	1,013.7	0.00	0.00	0.00
5,000.0	0.00	0.00	4,832.0	-822.2	593.0	1,013.7	0.00	0.00	0.00
5,100.0	0.00	0.00	4,932.0	-822.2	593.0	1,013.7	0.00	0.00	0.00
5,104.0	0.00	0.00	4,936.0	-822.2	593.0	1,013.7	0.00	0.00	0.00
POINT LOOKOUT									
5,200.0	0.00	0.00	5,032.0	-822.2	593.0	1,013.7	0.00	0.00	0.00
5,300.0	0.00	0.00	5,132.0	-822.2	593.0	1,013.7	0.00	0.00	0.00
5,400.0	0.00	0.00	5,232.0	-822.2	593.0	1,013.7	0.00	0.00	0.00
5,430.0	0.00	0.00	5,262.0	-822.2	593.0	1,013.7	0.00	0.00	0.00
MANCOS									
5,500.0	0.00	0.00	5,332.0	-822.2	593.0	1,013.7	0.00	0.00	0.00
5,600.0	0.00	0.00	5,432.0	-822.2	593.0	1,013.7	0.00	0.00	0.00
5,700.0	0.00	0.00	5,532.0	-822.2	593.0	1,013.7	0.00	0.00	0.00
5,800.0	0.00	0.00	5,632.0	-822.2	593.0	1,013.7	0.00	0.00	0.00
5,900.0	0.00	0.00	5,732.0	-822.2	593.0	1,013.7	0.00	0.00	0.00
6,000.0	0.00	0.00	5,832.0	-822.2	593.0	1,013.7	0.00	0.00	0.00
6,100.0	0.00	0.00	5,932.0	-822.2	593.0	1,013.7	0.00	0.00	0.00
6,200.0	0.00	0.00	6,032.0	-822.2	593.0	1,013.7	0.00	0.00	0.00
6,300.0	0.00	0.00	6,132.0	-822.2	593.0	1,013.7	0.00	0.00	0.00
6,351.0	0.00	0.00	6,183.0	-822.2	593.0	1,013.7	0.00	0.00	0.00
UPPER GALLUP									
6,400.0	0.00	0.00	6,232.0	-822.2	593.0	1,013.7	0.00	0.00	0.00
6,500.0	0.00	0.00	6,332.0	-822.2	593.0	1,013.7	0.00	0.00	0.00
6,600.0	0.00	0.00	6,432.0	-822.2	593.0	1,013.7	0.00	0.00	0.00
6,700.0	0.00	0.00	6,532.0	-822.2	593.0	1,013.7	0.00	0.00	0.00
6,800.0	0.00	0.00	6,632.0	-822.2	593.0	1,013.7	0.00	0.00	0.00
6,900.0	0.00	0.00	6,732.0	-822.2	593.0	1,013.7	0.00	0.00	0.00
7,000.0	0.00	0.00	6,832.0	-822.2	593.0	1,013.7	0.00	0.00	0.00
7,098.0	0.00	0.00	6,930.0	-822.2	593.0	1,013.7	0.00	0.00	0.00
GREENHORN									

ConocoPhillips

Planning Report

Database: EDM Central Planning
Company: ConocoPhillips SJBU
Project: San Juan Basin - New Mexico West Wells
Site: Other Named Wells
Well: Florance 2M
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Florance 2M
TVD Reference: WELL @ 5969.0usft (Original Well Elev)
MD Reference: WELL @ 5969.0usft (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)
7,100.0	0.00	0.00	6,932.0	-822.2	593.0	1,013.7	0.00	0.00	0.00
7,142.0	0.00	0.00	6,974.0	-822.2	593.0	1,013.7	0.00	0.00	0.00
GRANEROS									
7,174.0	0.00	0.00	7,006.0	-822.2	593.0	1,013.7	0.00	0.00	0.00
TWO WELLS									
7,200.0	0.00	0.00	7,032.0	-822.2	593.0	1,013.7	0.00	0.00	0.00
7,282.0	0.00	0.00	7,114.0	-822.2	593.0	1,013.7	0.00	0.00	0.00
PAGUATE									
7,300.0	0.00	0.00	7,132.0	-822.2	593.0	1,013.7	0.00	0.00	0.00
7,312.0	0.00	0.00	7,144.0	-822.2	593.0	1,013.7	0.00	0.00	0.00
UPPER CUBERO									
7,322.0	0.00	0.00	7,154.0	-822.2	593.0	1,013.7	0.00	0.00	0.00
LOWER CUBERO									
7,402.0	0.00	0.00	7,234.0	-822.2	593.0	1,013.7	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									
Florance 2M BHL	0.00	0.00	7,234.0	-822.2	593.0	2,107,502.98	515,987.53	36° 47' 30.725 N	107° 46' 43.438 W
- plan hits target center									
- Point									

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
3,993.7	3,825.7	INTERMEDIATE 7"	7	8-3/4
7,402.0	7,234.0	PRODUCTION 4.5"	4-1/2	6-1/4
200.0	200.0	SURFACE 9-5/8"	9-5/8	12-1/4

ConocoPhillips

Planning Report

Database: EDM Central Planning Company: ConocoPhillips SJB Project: San Juan Basin - New Mexico West Wells Site: Other Named Wells Well: Florance 2M Wellbore: Wellbore #1 Design: Design #1	Local Co-ordinate Reference: Well Florance 2M TVD Reference: WELL @ 5969.0usft (Original Well Elev) MD Reference: WELL @ 5969.0usft (Original Well Elev) North Reference: Grid Survey Calculation Method: Minimum Curvature	
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Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,473.0	4,305.0	MASSIVE CLIFF HOUSE		0.00		
4,360.0	4,192.0	UPPER CLIFF HOUSE		0.00		
3,543.9	3,380.0	HUERFANITO BENTONITE		0.00		
5,104.0	4,936.0	POINT LOOKOUT		0.00		
7,142.0	6,974.0	GRANEROS		0.00		
1,410.4	1,383.0	OJO ALAMO		0.00		
0.0	0.0	NACIMIENTO		0.00		
6,351.0	6,183.0	UPPER GALLUP		0.00		
7,282.0	7,114.0	PAGUATE		0.00		
1,612.8	1,572.0	KIRTLAND		0.00		
2,792.1	2,673.0	PICTURED CLIFFS		0.00		
7,098.0	6,930.0	GREENHORN		0.00		
4,651.0	4,483.0	MENEFEE		0.00		
2,210.5	2,130.0	FRUITLAND		0.00		
7,174.0	7,006.0	TWO WELLS		0.00		
7,322.0	7,154.0	LOWER CUBERO		0.00		
5,430.0	5,262.0	MANCOS		0.00		
3,832.8	3,665.0	CHACRA		0.00		
2,937.8	2,809.0	LEWIS		0.00		
7,312.0	7,144.0	UPPER CUBERO		0.00		

REFERENCE INFORMATION

WELL @ 5969.0usft (Original Well Elev)
Ground Elevation 5954.0
Reference Lat: 36° 47' 38.858 N
Reference Long: 107° 46' 50.722 W

Project: San Juan Basin - New Mexico West V
Site: Other Named Wells
Well: Florance 2M
Wellbore: Wellbore #1
Design: Design #1



SECTION DETAILS

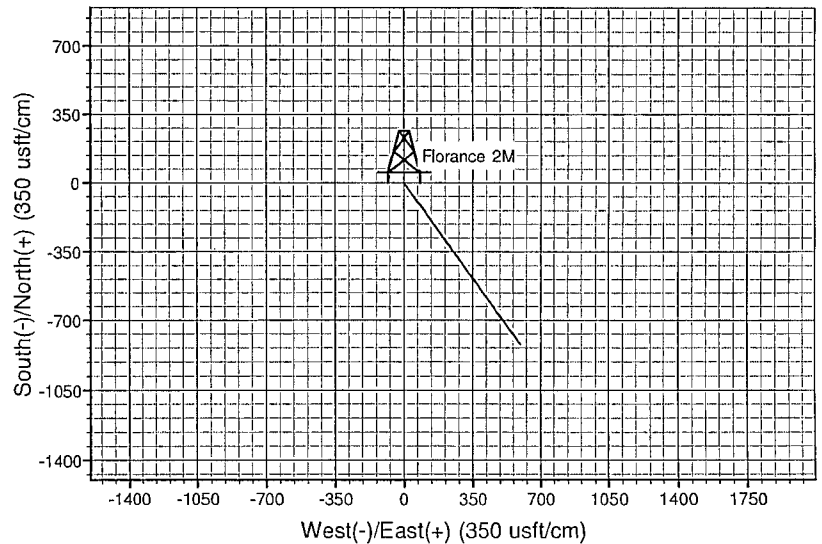
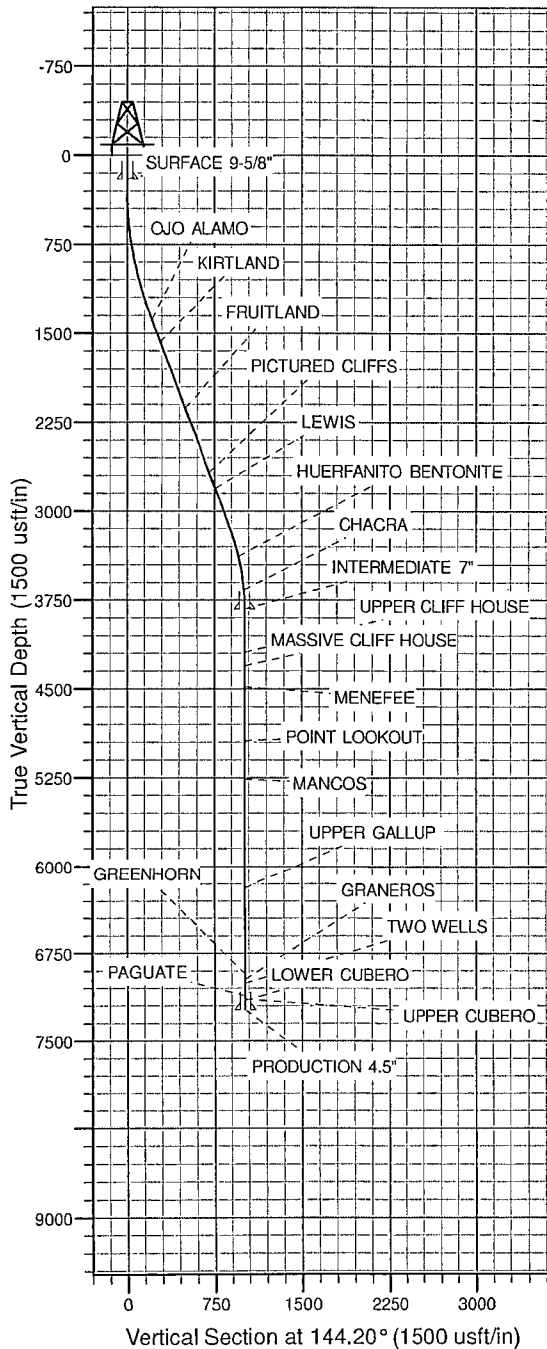
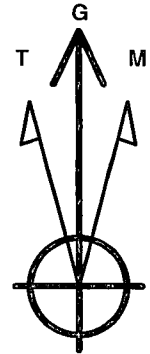
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.0	
3	1350.0	21.00	144.20	1326.6	-154.3	111.3	2.00	144.20	190.3	
4	3293.7	21.00	144.20	3141.3	-719.3	518.8	0.00	0.00	886.8	
5	3993.7	0.00	0.00	3825.7	-822.2	593.0	3.00	180.00	1013.7	
6	7402.0	0.00	0.00	7234.0	-822.2	593.0	0.00	0.00	1013.7	Florance 2M BHL

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
0.0	0.0	NACIMIENTO
1383.0	1410.4	OJO ALAMO
1572.0	1612.8	KIRTLAND
2130.0	2210.5	FRUITLAND
2673.0	2792.1	PICTURED CLIFFS
2809.0	2937.8	LEWIS
3380.0	3543.9	HUERFANITO BENTONITE
3665.0	3832.8	CHACRA
4192.0	4360.0	UPPER CLIFF HOUSE
4305.0	4473.0	MASSIVE CLIFF HOUSE
4483.0	4651.0	MENEFEE
4936.0	5104.0	POINT LOOKOUT
5262.0	5430.0	MANCOS
6183.0	6351.0	UPPER GALLUP
6930.0	7098.0	GREENHORN
6974.0	7142.0	GRANEROS
7006.0	7174.0	TWO WELLS
7114.0	7282.0	PAGUATE
7144.0	7312.0	UPPER CUBERO
7154.0	7322.0	LOWER CUBERO

Azimuths to Grid North
True North: -0.03°
Magnetic North: 9.59°

Magnetic Field
Strength: 50424.7snT
Dip Angle: 63.45°
Date: 3/17/2014
Model: BGGM2013



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 3-4-14, the following best management practices will be implemented:

1. Drainage will travel West and flow between well pad
2. Storage of topsoil will be top of 6" of soil stacked in EOD.
3. Silt trap above cut slope and at corner 6
4. Low Profile equipment will be used and painted Juniper Green.

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. Florance 2A well pad-UL J, 1750' FSL & 1500' FEL, Section 21, T30N, R09W (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.