

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	5. Lease Number SF-078135 Unit Reporting Number
1b. Type of Well GAS	6. If Indian, All. or Tribe
2. Operator BURLINGTON RESOURCES Oil & Gas Company, LP	7. Unit Agreement Name Huerfanito Unit
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name Huerfanito Unit 9. Well Number 99N
4. Location of Well Surface: Unit K(NE/SW), 2633' FSL & 1854' FWL BHL : Unit K(NE/SW), 2520' FSL & 1810' FWL Surface: Latitude: 36.5316333° N (NAD83) Longitude: 107.7607706° W BHL : Latitude: 36.5313240° N (NAD83) Longitude: 107.7609251° W	10. Field, Pool, Wildcat Basin DK/Blanco MV 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 35, T27N, R9W API # 30-045-35460
14. Distance in Miles from Nearest Town 29 Miles from Bloomfield	12. County San Juan
15. Distance from Proposed Location to Nearest Property or Lease Line 10.07'	13. State NM
16. Acres in Lease 2,241.880	17. Acres Assigned to Well 320.00 (W/2)
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 1058' From Huerfanito Unit 99E(Fruitland Coal Well)	20. Rotary or Cable Tools Rotary
19. Proposed Depth 6755'	22. Approx. Date Work will Start 3/18/13
21. Elevations (DF, FT, GR, Etc.) 6375' GL	
23. Proposed Casing and Cementing Program See Operations Plan attached	
24. Authorized by: Kenny Davis (Staff Regulatory Tech)	Date

PERMIT NO. APPROVAL DATE
APPROVED BY TITLE DATE

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

A COMPLETE C-144 MUST BE SUBMITTED TO AND
APPROVED BY THE NMOCD FOR: A PIT, CLOSED
LOOP SYSTEM, BELOW GRADE TANK, OR
PROPOSED ALTERNATIVE METHOD, PURSUANT
TO NMOCD PART 19.15.17, PRIOR TO THE USE OR
CONSTRUCTION OF THE ABOVE APPLICATIONS.

Hold C104
for Directional Survey
and "As Drilled" plat

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

NMOCD AV

for Directional Survey
and "As Drilled" plat

MAY 02 2013 ca

PC

DISTRICT I
1825 N. French Dr., Hobbs, N.M. 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II
811 S. First St., Artesia, N.M. 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, N.M. 87505
Phone: (505) 478-3480 Fax: (505) 478-3482

State of New Mexico
Energy, Minerals & Natural Resources Department

RECEIVED

Form C-102

Revised August 1, 2011

OIL CONSERVATION DIVISION MAR 18 2013

Submit one copy to appropriate
District Office

1220 South St. Francis Dr.
Santa Fe, N.M. 87505

Farmington Field Office
Bureau of Land Management

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35466	² Pool Code 71599/72319	³ Pool Name BLANCO BASIN DAKOTA / MESA VERDE
⁴ Property Code 7138	⁵ Property Name HUERFANITO-UNIT	⁶ Well Number 99N
⁷ OGRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	⁹ Elevation 6375

¹⁰ Surface Location

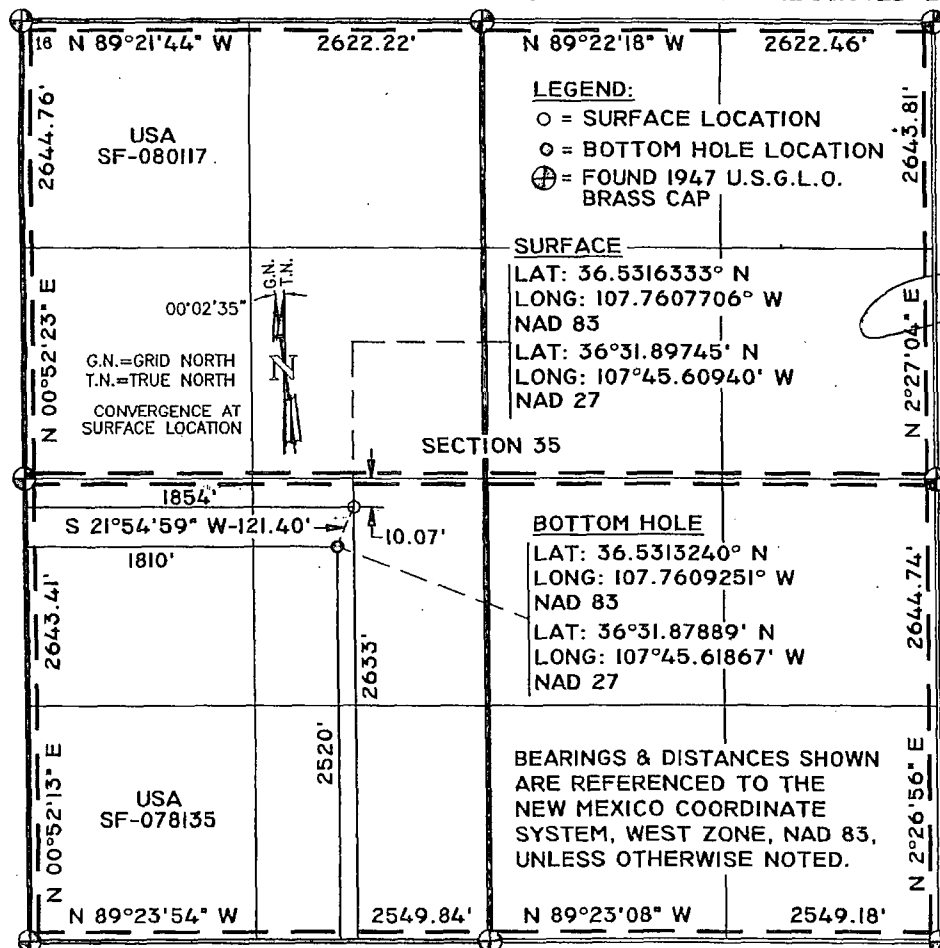
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	35	27 N	9 W		2633	SOUTH	1854	WEST	SAN JUAN

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	35	27 N	9 W		2520	SOUTH	1810	WEST	SAN JUAN

¹² Dedicated Acres 320.00 (W/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



17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: *Kenny Davis* Date: 3/18/2013
Printed Name: Kenny Davis
E-mail Address: kenny_r_davis@conocophillips.com

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: 11/08/12
Signature and Title: *Marshall W. Linden*
Professional Surveyor
Certificate Number: 17078

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

HUERFANITO UNIT 99N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.2066				AFE \$:	
Field Name: SAN JUAN		Rig: Aztec Rig 711		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: 36.531624	Longitude: -107.760157	X:	Y:	Section: 35	Range: 009W		
Footage X: 1854 FWL	Footage Y: 2633 FSL	Elevation: 6375	(FT)	Township: 027N			
Tolerance:							
Location: Bottom Hole		Datum Code: NAD 27				Directional	
Latitude: 36.531315	Longitude: -107.760311	X:	Y:	Section: 35	Range: 009W		
Footage X: 1810 FWL	Footage Y: 2520 FSL	Elevation:	(FT)	Township: 027N			
Tolerance:							
Location Type: Year Round		Start Date (Est.): 1/1/2013		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6390 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	200	6190		☐			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	1346	5044		☐			
KIRTLAND	1471	4919		☐			
FRUITLAND	1790	4600		☐			Possible Gas
PICTURED CLIFFS	2210	4180		☐			
LEWIS	2285	4105		☐			
HUERFANITO BENTONITE	2652	3738		☐			
CHACRA	3082	3308		☐			
MASSIVE CLIFF HOUSE	3758	2632		☐	900	125	Est top perf 4087'
MENEFEE	3837	2553		☐			
Intermediate Casing	3987	2403		☐			8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 898 cuft. Circulate cement to surface.
POINT LOOKOUT	4501	1889		☐			
MANCOS	4856	1534		☐			
UPPER GALLUP	5666	724		☐			
GREENHORN	6486	-96		☐			
GRANEROS	6536	-146		☐			
TWO WELLS	6573	-183		☐	2032		Gas
PAGUATE	6643	-253		☐			
CUBERO	6703	-313		☐			
ENCINAL	6755	-365		☐			Air TD ~ T/ENCN. Est bottom perf 6745'.

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

HUERFANITO UNIT 99N

DEVELOPMENT

Total Depth	6755	-365	☐	186 6-1/4" hole, 4-1/2" 11.6 ppf, L-80, LTC/BTC casing. Cement w/ 367 cuft. Circulate cement a minimum of 100' inside the previous casing string.
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BURRO CANYON	6837	-447	☐	
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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.

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 Huerfanito Unit #99N
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6390.0usft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6390.0usft (Original Well Elev)
Site:	Other Named Wells	North Reference:	Grid
Well:	Huerfanito Unit #99N	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	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	Huerfanito Unit #99N			
Well Position	+N/-S	0.0 usft	Northing:	2,012,767.62 usft
	+E/-W	0.0 usft	Easting:	521,499.05 usft
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft
			Ground Level:	6,375.0 usft

Wellbore	Wellbore #1			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)
	BGGM2012	2/13/2013	9.67	63.22
				Field Strength (nT)
				50,398

Design	Design #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	201.91

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	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,391.3	7.83	201.91	1,390.1	-24.8	-10.0	2.00	2.00	0.00	201.91	
1,956.4	7.83	201.91	1,949.9	-96.1	-38.7	0.00	0.00	0.00	0.00	
2,217.3	0.00	0.00	2,210.0	-112.7	-45.3	3.00	-3.00	0.00	180.00	HUERFANITO UNIT #
3,994.3	0.00	0.00	3,987.0	-112.7	-45.3	0.00	0.00	0.00	0.00	HUERFANITO UNIT #
6,762.3	0.00	0.00	6,755.0	-112.7	-45.3	0.00	0.00	0.00	0.00	HUERFANITO UNIT #

ConocoPhillips

Planning Report

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Company:	ConocoPhillips SJBU	TVD Reference:	WELL @ 6390.0usft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6390.0usft (Original Well Elev)
Site:	Other Named Wells	North Reference:	Grid
Well:	Huerfanito Unit #99N	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
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
9 5/8" SURFACE CASING									
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	2.00	201.91	1,100.0	-1.6	-0.7	1.7	2.00	2.00	0.00
1,200.0	4.00	201.91	1,199.8	-6.5	-2.6	7.0	2.00	2.00	0.00
1,300.0	6.00	201.91	1,299.5	-14.6	-5.9	15.7	2.00	2.00	0.00
1,346.8	6.94	201.91	1,346.0	-19.5	-7.8	21.0	2.00	2.00	0.00
OJO ALAMO									
1,391.3	7.83	201.91	1,390.1	-24.8	-10.0	26.7	2.00	2.00	0.00
1,400.0	7.83	201.91	1,398.7	-25.9	-10.4	27.9	0.00	0.00	0.00
1,473.0	7.83	201.91	1,471.0	-35.1	-14.1	37.8	0.00	0.00	0.00
KIRTLAND									
1,500.0	7.83	201.91	1,497.8	-38.5	-15.5	41.5	0.00	0.00	0.00
1,600.0	7.83	201.91	1,596.8	-51.1	-20.6	55.1	0.00	0.00	0.00
1,700.0	7.83	201.91	1,695.9	-63.8	-25.6	68.7	0.00	0.00	0.00
1,795.0	7.83	201.91	1,790.0	-75.8	-30.5	81.6	0.00	0.00	0.00
FRUITLAND									
1,800.0	7.83	201.91	1,795.0	-76.4	-30.7	82.3	0.00	0.00	0.00
1,900.0	7.83	201.91	1,894.0	-89.0	-35.8	96.0	0.00	0.00	0.00
1,956.4	7.83	201.91	1,949.9	-96.1	-38.7	103.6	0.00	0.00	0.00
2,000.0	6.52	201.91	1,993.2	-101.2	-40.7	109.1	3.00	-3.00	0.00
2,100.0	3.52	201.91	2,092.8	-109.3	-44.0	117.8	3.00	-3.00	0.00
2,200.0	0.52	201.91	2,192.7	-112.6	-45.3	121.3	3.00	-3.00	0.00
2,217.3	0.00	0.00	2,210.0	-112.7	-45.3	121.4	3.00	-3.00	0.00
PICTURED CLIFFS									
2,292.3	0.00	0.00	2,285.0	-112.7	-45.3	121.4	0.00	0.00	0.00
LEWIS									
2,300.0	0.00	0.00	2,292.7	-112.7	-45.3	121.4	0.00	0.00	0.00
2,400.0	0.00	0.00	2,392.7	-112.7	-45.3	121.4	0.00	0.00	0.00
2,500.0	0.00	0.00	2,492.7	-112.7	-45.3	121.4	0.00	0.00	0.00
2,600.0	0.00	0.00	2,592.7	-112.7	-45.3	121.4	0.00	0.00	0.00
2,659.3	0.00	0.00	2,652.0	-112.7	-45.3	121.4	0.00	0.00	0.00
HUERFANITO BENTONITE									
2,700.0	0.00	0.00	2,692.7	-112.7	-45.3	121.4	0.00	0.00	0.00
2,800.0	0.00	0.00	2,792.7	-112.7	-45.3	121.4	0.00	0.00	0.00
2,900.0	0.00	0.00	2,892.7	-112.7	-45.3	121.4	0.00	0.00	0.00
3,000.0	0.00	0.00	2,992.7	-112.7	-45.3	121.4	0.00	0.00	0.00
3,089.3	0.00	0.00	3,082.0	-112.7	-45.3	121.4	0.00	0.00	0.00
CHACRA									
3,100.0	0.00	0.00	3,092.7	-112.7	-45.3	121.4	0.00	0.00	0.00
3,200.0	0.00	0.00	3,192.7	-112.7	-45.3	121.4	0.00	0.00	0.00
3,300.0	0.00	0.00	3,292.7	-112.7	-45.3	121.4	0.00	0.00	0.00
3,400.0	0.00	0.00	3,392.7	-112.7	-45.3	121.4	0.00	0.00	0.00
3,500.0	0.00	0.00	3,492.7	-112.7	-45.3	121.4	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Huerfanito Unit #99N
Company:	ConocoPhillips SJBU	TVD Reference:	WELL @ 6390.0usft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6390.0usft (Original Well Elev)
Site:	Other Named Wells	North Reference:	Grid
Well:	Huerfanito Unit #99N	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)
3,600.0	0.00	0.00	3,592.7	-112.7	-45.3	121.4	0.00	0.00	0.00
3,700.0	0.00	0.00	3,692.7	-112.7	-45.3	121.4	0.00	0.00	0.00
3,765.3	0.00	0.00	3,758.0	-112.7	-45.3	121.4	0.00	0.00	0.00
MASSIVE CLIFF HOUSE									
3,800.0	0.00	0.00	3,792.7	-112.7	-45.3	121.4	0.00	0.00	0.00
3,844.3	0.00	0.00	3,837.0	-112.7	-45.3	121.4	0.00	0.00	0.00
MENELEE									
3,900.0	0.00	0.00	3,892.7	-112.7	-45.3	121.4	0.00	0.00	0.00
3,994.3	0.00	0.00	3,987.0	-112.7	-45.3	121.4	0.00	0.00	0.00
7" INTERMEDIATE CASING									
4,000.0	0.00	0.00	3,992.7	-112.7	-45.3	121.4	0.00	0.00	0.00
4,100.0	0.00	0.00	4,092.7	-112.7	-45.3	121.4	0.00	0.00	0.00
4,200.0	0.00	0.00	4,192.7	-112.7	-45.3	121.4	0.00	0.00	0.00
4,300.0	0.00	0.00	4,292.7	-112.7	-45.3	121.4	0.00	0.00	0.00
4,400.0	0.00	0.00	4,392.7	-112.7	-45.3	121.4	0.00	0.00	0.00
4,500.0	0.00	0.00	4,492.7	-112.7	-45.3	121.4	0.00	0.00	0.00
4,508.3	0.00	0.00	4,501.0	-112.7	-45.3	121.4	0.00	0.00	0.00
POINT LOOKOUT									
4,600.0	0.00	0.00	4,592.7	-112.7	-45.3	121.4	0.00	0.00	0.00
4,700.0	0.00	0.00	4,692.7	-112.7	-45.3	121.4	0.00	0.00	0.00
4,800.0	0.00	0.00	4,792.7	-112.7	-45.3	121.4	0.00	0.00	0.00
4,863.3	0.00	0.00	4,856.0	-112.7	-45.3	121.4	0.00	0.00	0.00
MANCOS									
4,900.0	0.00	0.00	4,892.7	-112.7	-45.3	121.4	0.00	0.00	0.00
5,000.0	0.00	0.00	4,992.7	-112.7	-45.3	121.4	0.00	0.00	0.00
5,100.0	0.00	0.00	5,092.7	-112.7	-45.3	121.4	0.00	0.00	0.00
5,200.0	0.00	0.00	5,192.7	-112.7	-45.3	121.4	0.00	0.00	0.00
5,300.0	0.00	0.00	5,292.7	-112.7	-45.3	121.4	0.00	0.00	0.00
5,400.0	0.00	0.00	5,392.7	-112.7	-45.3	121.4	0.00	0.00	0.00
5,500.0	0.00	0.00	5,492.7	-112.7	-45.3	121.4	0.00	0.00	0.00
5,600.0	0.00	0.00	5,592.7	-112.7	-45.3	121.4	0.00	0.00	0.00
5,673.3	0.00	0.00	5,666.0	-112.7	-45.3	121.4	0.00	0.00	0.00
UPPER GALLUP									
5,700.0	0.00	0.00	5,692.7	-112.7	-45.3	121.4	0.00	0.00	0.00
5,800.0	0.00	0.00	5,792.7	-112.7	-45.3	121.4	0.00	0.00	0.00
5,900.0	0.00	0.00	5,892.7	-112.7	-45.3	121.4	0.00	0.00	0.00
6,000.0	0.00	0.00	5,992.7	-112.7	-45.3	121.4	0.00	0.00	0.00
6,100.0	0.00	0.00	6,092.7	-112.7	-45.3	121.4	0.00	0.00	0.00
6,200.0	0.00	0.00	6,192.7	-112.7	-45.3	121.4	0.00	0.00	0.00
6,300.0	0.00	0.00	6,292.7	-112.7	-45.3	121.4	0.00	0.00	0.00
6,400.0	0.00	0.00	6,392.7	-112.7	-45.3	121.4	0.00	0.00	0.00
6,493.3	0.00	0.00	6,486.0	-112.7	-45.3	121.4	0.00	0.00	0.00
GREENHORN									
6,500.0	0.00	0.00	6,492.7	-112.7	-45.3	121.4	0.00	0.00	0.00
6,543.3	0.00	0.00	6,536.0	-112.7	-45.3	121.4	0.00	0.00	0.00
GRANEROS									
6,580.3	0.00	0.00	6,573.0	-112.7	-45.3	121.4	0.00	0.00	0.00
TWO WELLS									
6,600.0	0.00	0.00	6,592.7	-112.7	-45.3	121.4	0.00	0.00	0.00
6,650.3	0.00	0.00	6,643.0	-112.7	-45.3	121.4	0.00	0.00	0.00
PAGUATE									
6,700.0	0.00	0.00	6,692.7	-112.7	-45.3	121.4	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Huerfanito Unit #99N
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6390.0usft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6390.0usft (Original Well Elev)
Site:	Other Named Wells	North Reference:	Grid
Well:	Huerfanito Unit #99N	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)
6,710.3	0.00	0.00	6,703.0	-112.7	-45.3	121.4	0.00	0.00	0.00
CUBERO									
6,762.3	0.00	0.00	6,755.0	-112.7	-45.3	121.4	0.00	0.00	0.00
ENCINAL - 4 1/2" PRODUCTION CASING									

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									
HUERFANITO UNIT #99	0.00	0.00	3,987.0	-112.7	-45.3	2,012,654.94	521,453.76	36° 31' 52.733 N	107° 45' 37.120 W
- plan hits target center									
- Point									
HUERFANITO UNIT #99	0.00	0.00	2,210.0	-112.7	-45.3	2,012,654.98	521,453.74	36° 31' 52.733 N	107° 45' 37.120 W
- plan hits target center									
- Point									
HUERFANITO UNIT #99	0.00	0.00	6,755.0	-112.7	-45.3	2,012,654.94	521,453.76	36° 31' 52.733 N	107° 45' 37.120 W
- plan hits target center									
- Point									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
200.0	200.0	9 5/8" SURFACE CASING	9-5/8	12-1/4	
3,994.3	3,987.0	7" INTERMEDIATE CASING	7	8-3/4	
6,762.3	6,755.0	4 1/2" PRODUCTION CASING	4-1/2	6-1/4	

ConocoPhillips

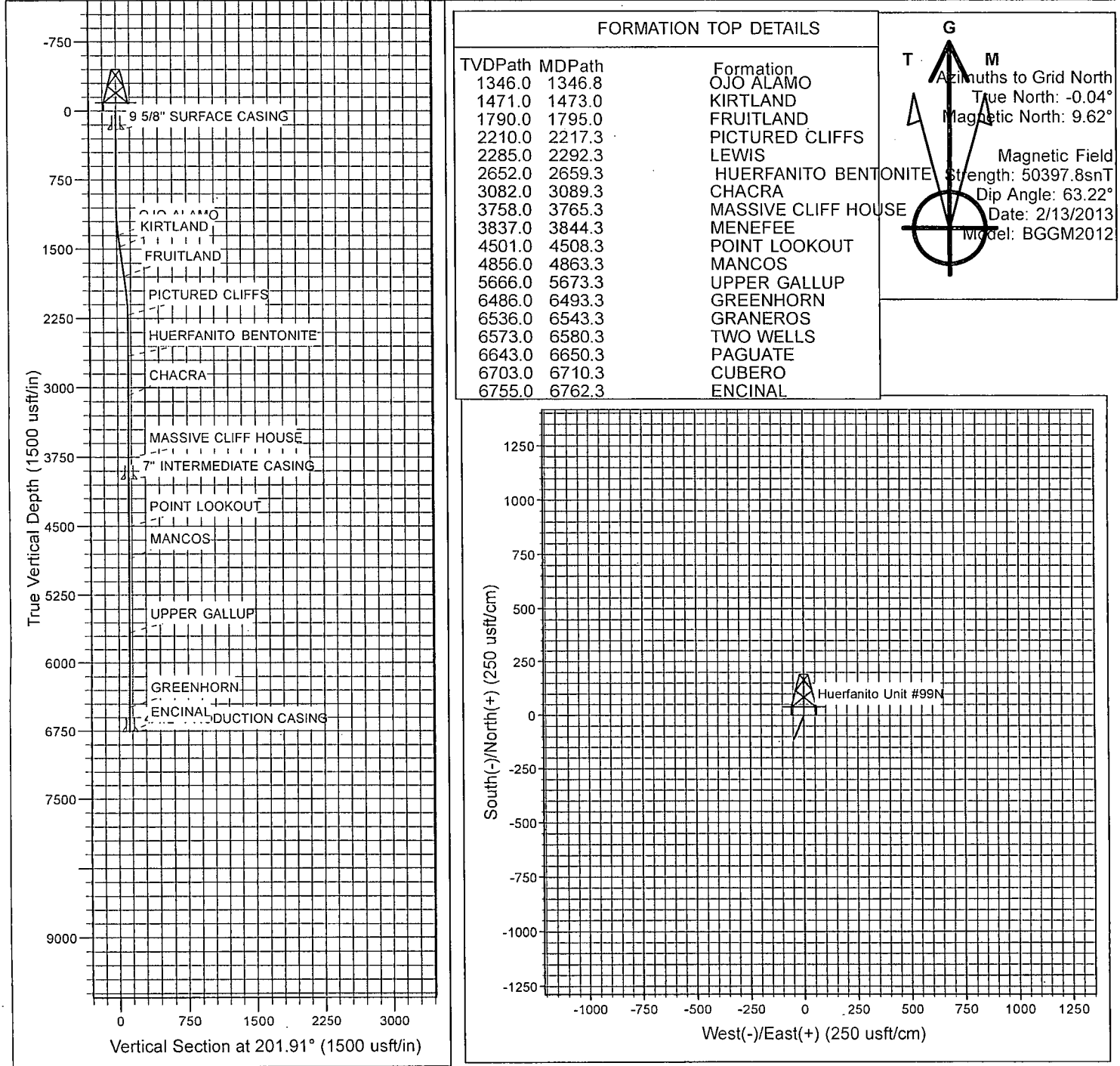
Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Huerfanito Unit #99N
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6390.0usft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6390.0usft (Original Well Elev)
Site:	Other Named Wells	North Reference:	Grid
Well:	Huerfanito Unit #99N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
6,543.3	6,536.0	GRANEROS		0.00		
4,863.3	4,856.0	MANCOS		0.00		
3,089.3	3,082.0	CHACRA		0.00		
4,508.3	4,501.0	POINT LOOKOUT		0.00		
6,762.3	6,755.0	ENCINAL		0.00		
3,765.3	3,758.0	MASSIVE CLIFF HOUSE		0.00		
2,292.3	2,285.0	LEWIS		0.00		
2,217.3	2,210.0	PICTURED CLIFFS		0.00		
1,346.8	1,346.0	OJO ALAMO		0.00		
1,473.0	1,471.0	KIRTLAND		0.00		
5,673.3	5,666.0	UPPER GALLUP		0.00		
6,710.3	6,703.0	CUBERO		0.00		
1,795.0	1,790.0	FRUITLAND		0.00		
2,659.3	2,652.0	HUERFANITO BENTONITE		0.00		
6,650.3	6,643.0	PAGUATE		0.00		
6,493.3	6,486.0	GREENHORN		0.00		
3,844.3	3,837.0	MENEFEE		0.00		
6,580.3	6,573.0	TWO WELLS		0.00		

REFERENCE INFORMATION			Project: San Juan Basin - New Mexico West V		
WELL @ 6390.0usft (Original Well Elev)			Site: Other Named Wells		
Ground Elevation 6375.0			Well: Huerfanito Unit #99N		
Reference Lat: 36° 31' 53.847 N			Wellbore: Wellbore #1		
Reference Long: 107° 45' 36.564 W			Design: Design #1		

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	1000.0	0.00	0.00	1000.0	0.0	0.0	0.00	0.00	0.0	
3	1391.3	7.83	201.91	1390.1	-24.8	-10.0	2.00	201.91	26.7	
4	1956.4	7.83	201.91	1949.9	-96.1	-38.7	0.00	0.00	103.6	
5	2217.3	0.00	0.00	2210.0	-112.7	-45.3	3.00	180.00	121.4	HUERFANITO UNIT #99N VERTICAL POINT
6	3994.3	0.00	0.00	3987.0	-112.7	-45.3	0.00	0.00	121.4	HUERFANITO UNIT #99N ICP
7	6762.3	0.00	0.00	6755.0	-112.7	-45.3	0.00	0.00	121.4	HUERFANITO UNIT #99N PCP



BURLINGTON RESOURCES OIL & GAS COMPANY LP

HUERFANITO UNIT 99N

2633' FSL & 1854' FWL (SURFACE)

2520' FSL & 1810' FWL (BOTTOM HOLE)

LATITUDE: 36.5316333° N

LONGITUDE: 107.7607706° W

NAD 83

SECTION 35, T-27-N, R-9-W, N.M.P.M.

SAN JUAN COUNTY, NEW MEXICO

FROM THE INTERSECTION OF U.S. HWY. 64
& U.S. HWY. 550 IN BLOOMFIELD, NEW MEXICO.

TRAVEL SOUTHERLY 1.1 MILE ON U.S. HIGHWAY 550, CROSSING SAN JUAN RIVER.

TURN LEFT ONTO COUNTY ROAD 4990 (SULLIVAN ROAD) AND

TRAVEL EASTERLY 9.6 MILES TO THE END OF PAVEMENT.

CONTINUE TRAVELING EASTERLY 5.3 MILES INTO LARGO CANYON,

REACHING COUNTY ROAD 4450 INTERSECTION.

TRAVEL SOUTHERLY 2.9 MILES ON COUNTY ROAD 4450.

TURN RIGHT AT COUNTY ROAD 7007 INTERSECTION.

TRAVEL SOUTHERLY 9.0 MILES INTO BLANCO CANYON ON COUNTY ROAD 7007.

TURN RIGHT AND TRAVEL WESTERLY 0.5 MILE.

BEAR RIGHT AND TRAVEL WESTERLY 0.2 MILE.

BEAR LEFT AND TRAVELING SOUTHWESTERLY 0.4 MILE,

ENTER EXISTING WELL LOCATION.

TURN LEFT, TRAVEL SOUTHERLY THEN WESTERLY 0.4 MILE TO

PROPOSED HUERFANITO UNIT 99N ACCESS ROAD AND WELL LOCATION.