

NOS: 10/2/12
APDP: N/A
MP: BLM
SMA: NMB000015 + NMB000089
BOND: NMB000015 + NMB000089
CA/PA: CA2

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

JAN 17 2013

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	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	5. Lease Number CA NM76050 (mv) NM73743 (dk)
1b. Type of Well GAS		6. If Indian, All. or Tribe
2. Operator BURLINGTON RESOURCES Oil & Gas Company, LP		7. Unit Agreement Name RCVD MAR 22 '13 OIL CONS. DIV. DIST. 3
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700		8. Farm or Lease Name Hare 9. Well Number 20M
4. Location of Well Surface: Unit I (NE/SE), 1901' FSL & 899' FEL BHL : Unit J (NW/SE), 1865' FSL & 1840' FEL Surface: Latitude: 36.72332° N (NAD83) Longitude: 107.84853° W BHL : Latitude: 36.72349° N (NAD83) Longitude: 107.85174° W		10. Field, Pool, Wildcat Blanco MV/Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 14, T29N, R10W API # 30-045- 35454
14. Distance in Miles from Nearest Town 2 miles from Blanco		12. County San Juan 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 899'		
16. Acres in Lease 2336.050		17. Acres Assigned to Well 320.10 Acres S/2
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 50' from Hare 22A - PC/MV		
19. Proposed Depth 6797'		20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 5848' GL		22. Approx. Date Work will Start 1/17/13
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Arleen White</u> Arleen White (Staff Regulatory Tech)		Date

Hold C104
for Directional Survey
and "As Drilled" plat

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

MAR 29 2013 ca

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

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

Hold C104

NMOCDA

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

PC

NOTIFY AZTEC OCD 24 HRS
PRIOR TO CASING & CEMENT

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
1625 N. French Drive, Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II
811 S. First Street, 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 Drive, Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 1, 2011

Submit one copy to
Appropriate District Office
RECEIVED

OIL CONSERVATION DIVISION

1220 South St. Francis Drive
Santa Fe, NM 87505

☐ AMENDED REPORT
JAN 17 2013

WELL LOCATION AND ACREAGE DEDICATION PLAT Farmington Field Office
Bureau of Land Management

API Number 30-045 - 35454	Pool Code 72319 / 71599	Pool Name BLANCO MESAVERDE / BASIN DAKOTA
Property Code 7091	Property Name HARE	Well Number 20M
OGRID No. 14538	Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	Elevation 5848'

10 Surface Location

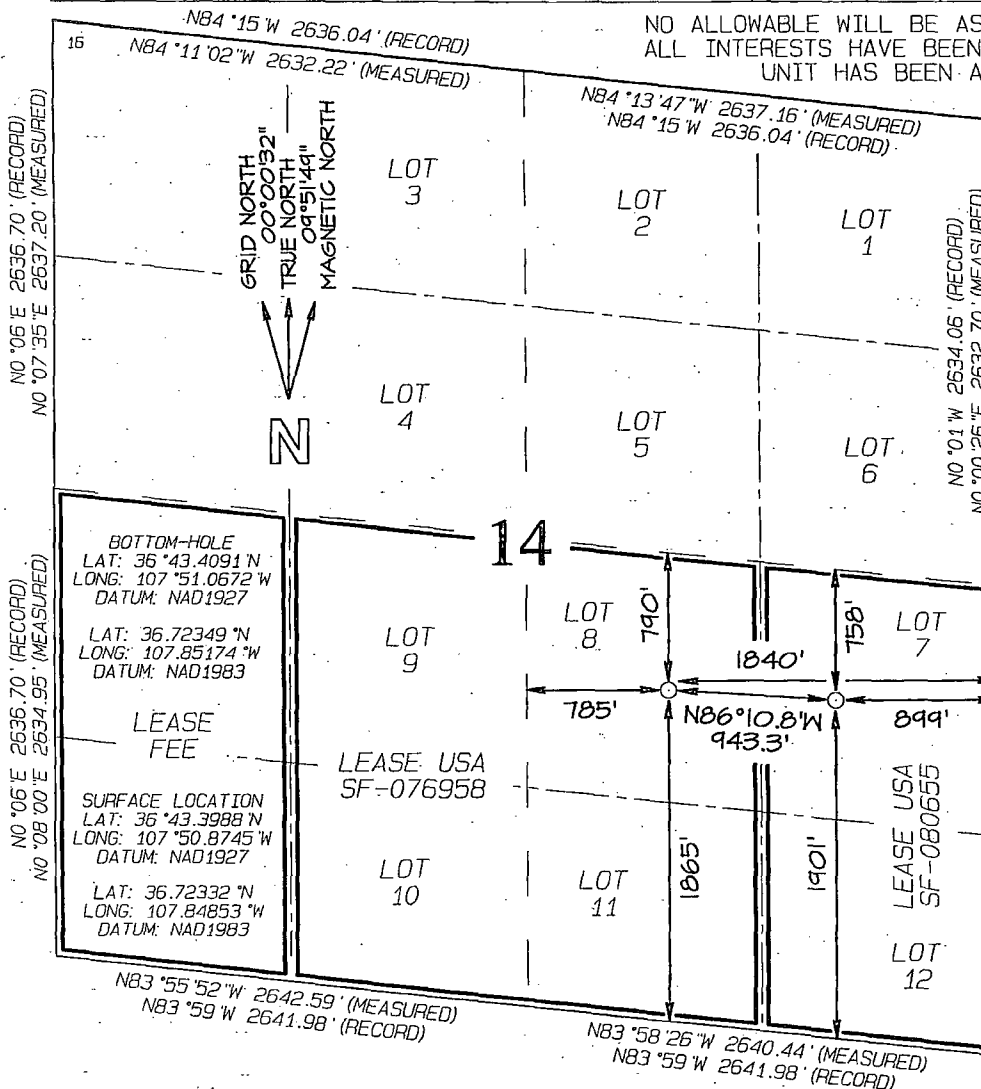
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	14	29N	10W	7	1901	SOUTH	899	EAST	SAN JUAN

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
J	14	29N	10W	8	1865	SOUTH	1840	EAST	SAN JUAN

12 Dedicated Acres 320.10 Acres - S/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 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: *Marie E. Jaramillo* Date: 10/1/12

Printed Name: Marie E. Jaramillo

Staff Regulatory Tech.

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: JUNE 26, 2012

Signature and Seal of Professional Surveyor



JASON C. EDWARDS

Certificate Number 15269

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

HARE 20M

DEVELOPMENT

Lease:		AFE #: WAN.CDR.1109				AFE \$: 0.00	
Field Name: SAN JUAN		Rig: Aztec Rig 730		State: NM	County: SAN JUAN		API #: 3004532996
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist: Head, Chip F (Charles)		Phone: +1-505-326-9772		Prod. Engineer:		Phone:	
Res. Engineer: Prabowo, Wahyu		Phone: +1-505-326-9797		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: 36.723313	Longitude: -107.847908	X:	Y:	Section: 14	Range: 010W		
Footage X: 899 FEL	Footage Y: 1901 FSL	Elevation: 5848	(FT)	Township: 029N			
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27 Directional							
Latitude: 36.723485	Longitude: -107.851122	X:	Y:	Section: 14	Range: 010W		
Footage X: 1840 FEL	Footage Y: 1865 FSL	Elevation:	(FT)	Township: 029N			
Tolerance:							
Location Type: Year Round		Start Date (Est.): 1/1/2013		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 5863 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
NACIMIENTO	15	5848		☐			
Surface Casing	200	5663		☐	62	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	1041	4822		☐			
KIRTLAND	1207	4656		☐			
FRUITLAND	1745	4118		☐			Possible Gas
PICTURED CLIFFS	2253	3610		☐	276		
LEWIS	2350	3513		☐		103	
HUERFANITO BENTONITE	3101	2762		☐			
CHACRA	3230	2633		☐			
MASSIVE CLIFF HOUSE	3898	1965		☐	515		Gas; Cliffhouse is dry
MENEFEE	3926	1937		☐			
Intermediate Casing	4069	1794		☐	134	8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 917 cuft. Circulate cement to surface.	
POINT LOOKOUT	4495	1368		☐			
MANCOS	4910	953		☐			
UPPER GALLUP	5739	124		☐			
GREENHORN	6496	-633		☐			
GRANEROS	6556	-693		☐		184	
TWO WELLS	6621	-758		☐	1806		Gas
PAGUATE	6686	-823		☐			
CUBERO	6740	-877		☐			6777' - est bottom perf
ENCINAL	6797	-934		☐			TD - T/ENCN

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

HARE 20M

DEVELOPMENT

Total Depth	6797	-934	☐	188	6-1/4" hole, 4-1/2" 11.6 ppf, L-80, LTC/BTC casing. Cement w/ 361 cuft. Circulate cement a minimum of 100' inside the previous casing string.
BURRO CANYON	6861	-998	☐		
MORRISON	6880	-1017	☐	190	

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 Uglp to TD. Mud loggers will call final TD. Est bottom perf ~20' from 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 Hare 20M
Company: ConocoPhillips SJB	TVD Reference: RKB @ 5863.0usft (Original Well Elev)
Project: San Juan Basin - New Mexico West Wells	MD Reference: RKB @ 5863.0usft (Original Well Elev)
Site: Other Named Wells	North Reference: Grid
Well: Hare 20M	Survey Calculation Method: Minimum Curvature
Wellbore: Wellbore #1	
Design: Primary Wellbore	

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	Hare 20M		
Well Position	+N-S	0.0 usft	Northing: 2,082,541.75 usft
	+E-W	0.0 usft	Easting: 495,728.51 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	36° 43' 23.928 N
		Longitude:	107° 50' 52.470 W
		Ground Level:	5,848.0 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination (°)
	BGGM2012	11/1/2012	9.76
			Dip Angle (°)
			63.38
			Field Strength (nT)
			50,534

Design	Primary Wellbore		
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 (°)
			273.81

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	
320.0	0.00	0.00	320.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,552.5	24.65	273.81	1,514.9	17.3	-260.5	2.00	2.00	0.00	273.81	
2,771.2	24.65	273.81	2,622.4	51.1	-767.6	0.00	0.00	0.00	0.00	
3,592.8	0.00	0.00	3,419.0	62.7	-941.3	3.00	-3.00	0.00	180.00	
4,242.8	0.00	0.00	4,069.0	62.7	-941.3	0.00	0.00	0.00	0.00	Hare 20M ICP
6,970.8	0.00	0.00	6,797.0	62.7	-941.3	0.00	0.00	0.00	0.00	Hare 20M PCP

ConocoPhillips

Planning Report

Database: EDM Central Planning
 Company: ConocoPhillips SJBU
 Project: San Juan Basin - New Mexico West Wells
 Site: Other Named Wells
 Well: Hare 20M
 Wellbore: Wellbore #1
 Design: Primary Wellbore

Local Co-ordinate Reference: Well Hare 20M
 TVD Reference: RKB @ 5863.0usft (Original Well Elev)
 MD Reference: RKB @ 5863.0usft (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
15.0	0.00	0.00	15.0	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
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
320.0	0.00	0.00	320.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	1.60	273.81	400.0	0.1	-1.1	1.1	2.00	2.00	0.00
500.0	3.60	273.81	499.9	0.4	-5.6	5.7	2.00	2.00	0.00
600.0	5.60	273.81	599.6	0.9	-13.6	13.7	2.00	2.00	0.00
700.0	7.60	273.81	698.9	1.7	-25.1	25.2	2.00	2.00	0.00
800.0	9.60	273.81	797.8	2.7	-40.0	40.1	2.00	2.00	0.00
900.0	11.60	273.81	896.0	3.9	-58.4	58.5	2.00	2.00	0.00
1,000.0	13.60	273.81	993.6	5.3	-80.1	80.3	2.00	2.00	0.00
1,048.8	14.58	273.81	1,041.0	6.1	-92.0	92.2	2.00	2.00	0.00
Ojo									
1,100.0	15.60	273.81	1,090.4	7.0	-105.3	105.5	2.00	2.00	0.00
1,200.0	17.60	273.81	1,186.2	8.9	-133.8	134.1	2.00	2.00	0.00
1,221.8	18.04	273.81	1,207.0	9.4	-140.5	140.8	2.00	2.00	0.00
Kirtland									
1,300.0	19.60	273.81	1,281.0	11.0	-165.6	166.0	2.00	2.00	0.00
1,400.0	21.60	273.81	1,374.6	13.4	-200.7	201.2	2.00	2.00	0.00
1,500.0	23.60	273.81	1,466.9	15.9	-239.1	239.6	2.00	2.00	0.00
1,552.5	24.65	273.81	1,514.9	17.3	-260.5	261.1	2.00	2.00	0.00
1,600.0	24.65	273.81	1,558.0	18.7	-280.3	280.9	0.00	0.00	0.00
1,700.0	24.65	273.81	1,648.9	21.4	-321.9	322.6	0.00	0.00	0.00
1,800.0	24.65	273.81	1,739.8	24.2	-363.5	364.3	0.00	0.00	0.00
1,805.7	24.65	273.81	1,745.0	24.4	-365.9	366.7	0.00	0.00	0.00
Fruitland									
1,900.0	24.65	273.81	1,830.7	27.0	-405.1	406.0	0.00	0.00	0.00
2,000.0	24.65	273.81	1,921.5	29.7	-446.7	447.7	0.00	0.00	0.00
2,100.0	24.65	273.81	2,012.4	32.5	-488.3	489.4	0.00	0.00	0.00
2,200.0	24.65	273.81	2,103.3	35.3	-529.9	531.1	0.00	0.00	0.00
2,300.0	24.65	273.81	2,194.2	38.0	-571.6	572.8	0.00	0.00	0.00
2,364.7	24.65	273.81	2,253.0	39.8	-598.5	599.8	0.00	0.00	0.00
Pictured Cliffs									
2,400.0	24.65	273.81	2,285.1	40.8	-613.2	614.5	0.00	0.00	0.00
2,471.4	24.65	273.81	2,350.0	42.8	-642.9	644.3	0.00	0.00	0.00
Lewis									
2,500.0	24.65	273.81	2,376.0	43.6	-654.8	656.2	0.00	0.00	0.00
2,600.0	24.65	273.81	2,466.9	46.4	-696.4	698.0	0.00	0.00	0.00
2,700.0	24.65	273.81	2,557.8	49.1	-738.0	739.7	0.00	0.00	0.00
2,771.2	24.65	273.81	2,622.4	51.1	-767.6	769.3	0.00	0.00	0.00
2,800.0	23.79	273.81	2,648.7	51.9	-779.4	781.2	3.00	-3.00	0.00
2,900.0	20.79	273.81	2,741.3	54.4	-817.3	819.1	3.00	-3.00	0.00
3,000.0	17.79	273.81	2,835.6	56.6	-850.2	852.1	3.00	-3.00	0.00
3,100.0	14.79	273.81	2,931.6	58.5	-878.2	880.2	3.00	-3.00	0.00
3,200.0	11.79	273.81	3,028.9	60.0	-901.1	903.1	3.00	-3.00	0.00
3,273.4	9.58	273.81	3,101.0	60.9	-914.7	916.7	3.00	-3.00	0.00
Huerfano Bentonite									
3,300.0	8.79	273.81	3,127.3	61.2	-919.0	921.0	3.00	-3.00	0.00
3,400.0	5.79	273.81	3,226.5	62.0	-931.6	933.7	3.00	-3.00	0.00
3,403.5	5.68	273.81	3,230.0	62.0	-932.0	934.0	3.00	-3.00	0.00

ConocoPhillips

Planning Report

Database: ED:1 Central Planning
 Company: ConocoPhillips SJB
 Project: San Juan Basin - New Mexico West Wells
 Site: Other Named Wells
 Well: Hare 20M
 Wellbore: Wellbore #1
 Design: Primary Wellbore

Local Co-ordinate Reference: Well Hare 20M
 TVD Reference: RKB @ 5863.0usft (Original Well Elev)
 MD Reference: RKB @ 5863.0usft (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)
Chacra									
3,500.0	2.79	273.81	3,326.2	62.5	-939.1	941.1	3.00	-3.00	0.00
3,592.8	0.00	0.00	3,419.0	62.7	-941.3	943.4	3.00	-3.00	0.00
3,600.0	0.00	0.00	3,426.2	62.7	-941.3	943.4	0.00	0.00	0.00
3,700.0	0.00	0.00	3,526.2	62.7	-941.3	943.4	0.00	0.00	0.00
3,800.0	0.00	0.00	3,626.2	62.7	-941.3	943.4	0.00	0.00	0.00
3,900.0	0.00	0.00	3,726.2	62.7	-941.3	943.4	0.00	0.00	0.00
4,000.0	0.00	0.00	3,826.2	62.7	-941.3	943.4	0.00	0.00	0.00
4,071.8	0.00	0.00	3,898.0	62.7	-941.3	943.4	0.00	0.00	0.00
Mass. Cliffhouse									
4,099.8	0.00	0.00	3,926.0	62.7	-941.3	943.4	0.00	0.00	0.00
Menefee									
4,100.0	0.00	0.00	3,926.2	62.7	-941.3	943.4	0.00	0.00	0.00
4,200.0	0.00	0.00	4,026.2	62.7	-941.3	943.4	0.00	0.00	0.00
4,242.8	0.00	0.00	4,069.0	62.7	-941.3	943.4	0.00	0.00	0.00
4,300.0	0.00	0.00	4,126.2	62.7	-941.3	943.4	0.00	0.00	0.00
4,400.0	0.00	0.00	4,226.2	62.7	-941.3	943.4	0.00	0.00	0.00
4,500.0	0.00	0.00	4,326.2	62.7	-941.3	943.4	0.00	0.00	0.00
4,600.0	0.00	0.00	4,426.2	62.7	-941.3	943.4	0.00	0.00	0.00
4,668.8	0.00	0.00	4,495.0	62.7	-941.3	943.4	0.00	0.00	0.00
Point Lookout									
4,700.0	0.00	0.00	4,526.2	62.7	-941.3	943.4	0.00	0.00	0.00
4,800.0	0.00	0.00	4,626.2	62.7	-941.3	943.4	0.00	0.00	0.00
4,900.0	0.00	0.00	4,726.2	62.7	-941.3	943.4	0.00	0.00	0.00
5,000.0	0.00	0.00	4,826.2	62.7	-941.3	943.4	0.00	0.00	0.00
5,083.8	0.00	0.00	4,910.0	62.7	-941.3	943.4	0.00	0.00	0.00
Mancos									
5,100.0	0.00	0.00	4,926.2	62.7	-941.3	943.4	0.00	0.00	0.00
5,200.0	0.00	0.00	5,026.2	62.7	-941.3	943.4	0.00	0.00	0.00
5,300.0	0.00	0.00	5,126.2	62.7	-941.3	943.4	0.00	0.00	0.00
5,400.0	0.00	0.00	5,226.2	62.7	-941.3	943.4	0.00	0.00	0.00
5,500.0	0.00	0.00	5,326.2	62.7	-941.3	943.4	0.00	0.00	0.00
5,600.0	0.00	0.00	5,426.2	62.7	-941.3	943.4	0.00	0.00	0.00
5,700.0	0.00	0.00	5,526.2	62.7	-941.3	943.4	0.00	0.00	0.00
5,800.0	0.00	0.00	5,626.2	62.7	-941.3	943.4	0.00	0.00	0.00
5,900.0	0.00	0.00	5,726.2	62.7	-941.3	943.4	0.00	0.00	0.00
5,912.8	0.00	0.00	5,739.0	62.7	-941.3	943.4	0.00	0.00	0.00
Upper Gallup									
6,000.0	0.00	0.00	5,826.2	62.7	-941.3	943.4	0.00	0.00	0.00
6,100.0	0.00	0.00	5,926.2	62.7	-941.3	943.4	0.00	0.00	0.00
6,200.0	0.00	0.00	6,026.2	62.7	-941.3	943.4	0.00	0.00	0.00
6,300.0	0.00	0.00	6,126.2	62.7	-941.3	943.4	0.00	0.00	0.00
6,400.0	0.00	0.00	6,226.2	62.7	-941.3	943.4	0.00	0.00	0.00
6,500.0	0.00	0.00	6,326.2	62.7	-941.3	943.4	0.00	0.00	0.00
6,600.0	0.00	0.00	6,426.2	62.7	-941.3	943.4	0.00	0.00	0.00
6,669.8	0.00	0.00	6,496.0	62.7	-941.3	943.4	0.00	0.00	0.00
Greenhorn									
6,700.0	0.00	0.00	6,526.2	62.7	-941.3	943.4	0.00	0.00	0.00
6,729.8	0.00	0.00	6,556.0	62.7	-941.3	943.4	0.00	0.00	0.00
Graneros									
6,794.8	0.00	0.00	6,621.0	62.7	-941.3	943.4	0.00	0.00	0.00
Two Wells									
6,800.0	0.00	0.00	6,626.2	62.7	-941.3	943.4	0.00	0.00	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: Hare 20M
 Wellbore: Wellbore #1
 Design: Primary Wellbore

Local Co-ordinate Reference: Well Hare 20M
 TVD Reference: RKB @ 5863.0usft (Original Well Elev)
 MD Reference: RKB @ 5863.0usft (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)
6,859.8	0.00	0.00	6,686.0	62.7	-941.3	943.4	0.00	0.00	0.00
Paguate									
6,900.0	0.00	0.00	6,726.2	62.7	-941.3	943.4	0.00	0.00	0.00
6,913.8	0.00	0.00	6,740.0	62.7	-941.3	943.4	0.00	0.00	0.00
Cubero									
6,970.8	0.00	0.00	6,797.0	62.7	-941.3	943.4	0.00	0.00	0.00
Encinal									

Targets

Target Name

- hit/miss target - Shape	Dip Angle (°)	Dip Dir (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Hare 20M PCP - plan hits target center - Point	0.00	360.00	6,797.0	62.7	-941.3	2,082,604.40	494,787.28	36° 43' 24.546 N	107° 51' 4.032 W
Hare 20M ICP - plan hits target center - Point	0.00	360.00	4,069.0	62.7	-941.3	2,082,604.40	494,787.28	36° 43' 24.546 N	107° 51' 4.032 W

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
6,970.8	6,797.0	Encinal			
2,364.7	2,253.0	Pictured Cliffs		0.00	
15.0	15.0	Nacimiento		0.00	
3,273.4	3,101.0	Huerfano Bentonite		0.00	
6,729.8	6,556.0	Graneros		0.00	
6,794.8	6,621.0	Two Wells		0.00	
6,913.8	6,740.0	Cubero			
1,048.8	1,041.0	Ojo		0.00	
2,471.4	2,350.0	Lewis		0.00	
6,669.8	6,496.0	Greenhorn		0.00	
4,668.8	4,495.0	Point Lookout		0.00	
4,071.8	3,898.0	Mass. Cliffhouse		0.00	
6,859.8	6,686.0	Paguate		0.00	
4,099.8	3,926.0	Menefee		0.00	
1,805.7	1,745.0	Fruitland		0.00	
1,221.8	1,207.0	Kirtland		0.00	
3,403.5	3,230.0	Chacra		0.00	
5,912.8	5,739.0	Upper Gallup		0.00	
5,083.8	4,910.0	Mancos		0.00	

REFERENCE INFORMATION

RKB @ 5863.0usft (Original Well Elev)
Ground Elevation 5848.0
Reference Lat: 36° 43' 23.928 N
Reference Long: 107° 50' 52.470 W

Project: San Juan Basin - New Mexico West W
Site: Other Named Wells
Well: Hare 20M
Wellbore: Wellbore #1
Design: Primary Wellbore

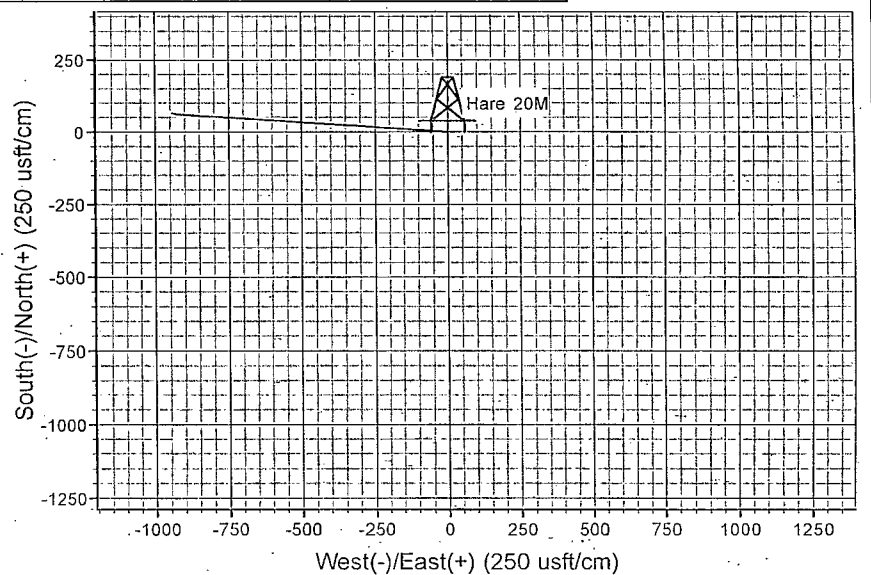
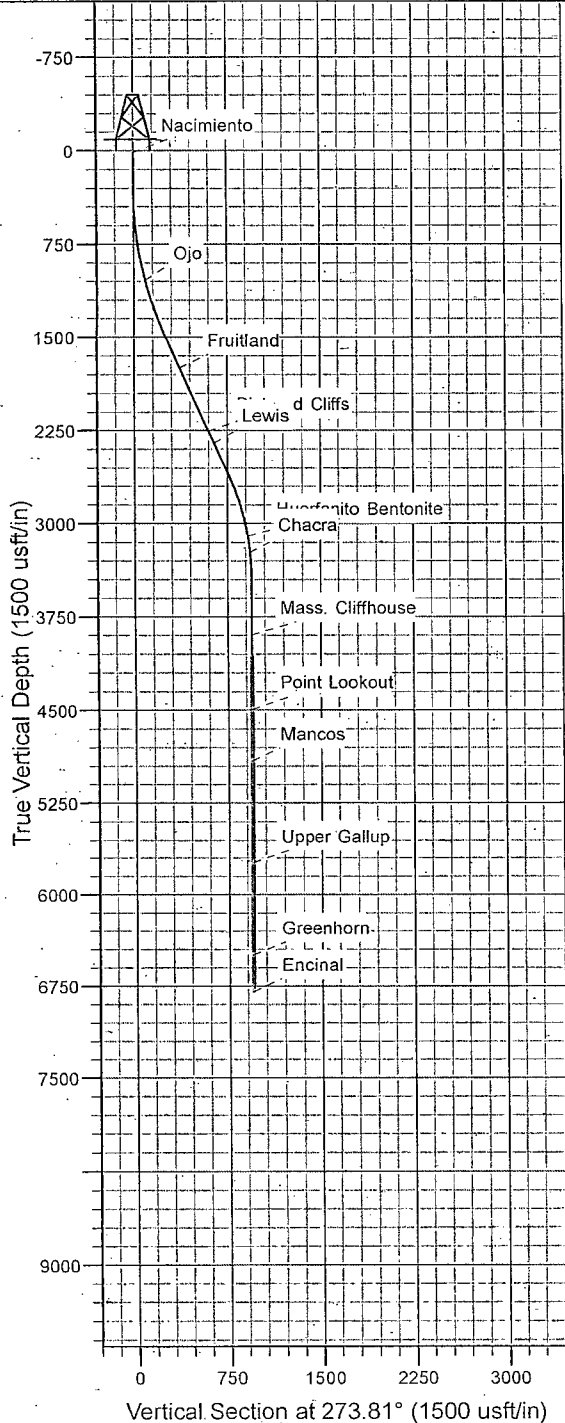
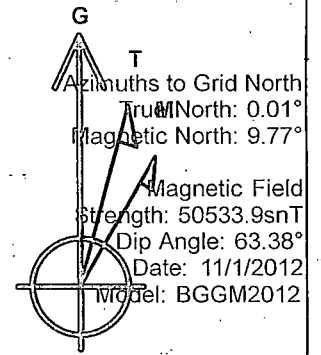
ConocoPhillips

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	320.0	0.00	0.00	320.0	0.0	0.0	0.00	0.00	0.0	
3	1552.5	24.65	273.81	1514.9	17.3	-260.5	2.00	273.81	261.1	
4	2771.2	24.65	273.81	2622.4	51.1	-767.6	0.00	0.00	769.3	
5	3592.8	0.00	0.00	3419.0	62.7	-941.3	3.00	180.00	943.4	
6	4242.8	0.00	0.00	4069.0	62.7	-941.3	0.00	0.00	943.4	Hare 20M ICP
7	6970.8	0.00	0.00	6797.0	62.7	-941.3	0.00	0.00	943.4	Hare 20M PCP

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
15.0	15.0	Nacimiento
1041.0	1048.8	Ojo
1207.0	1221.8	Kirtland
1745.0	1805.7	Fruitland
2253.0	2364.7	Pictured Cliffs
2350.0	2471.4	Lewis
3101.0	3273.4	Huerfano Bentonite
3230.0	3403.5	Chacra
3898.0	4071.8	Mass. Cliffhouse
3926.0	4099.8	Menefee
4495.0	4668.8	Point Lookout
4910.0	5083.8	Mancos
5739.0	5912.8	Upper Gallup
6496.0	6669.8	Greenhorn
6556.0	6729.8	Graneros
6621.0	6794.8	Two Wells
6686.0	6859.8	Paguate
6740.0	6913.8	Cubero
6797.0	6970.8	Encinal



Directions from the Intersection of US Hwy 550 South & US Hwy 64 in Bloomfield, NM

to Burlington Resources Oil & Gas Company Hare #20M

1901' FSL & 899' FEL, Section 14, T29N, R10W, N.M.P.M., San Juan County, NM

Latitude: 36.72332°N Longitude: 107.84853°W Datum: NAD1983

From the intersection of US Hwy 550 South & US Hwy 64 in Bloomfield, NM, travel Easterly on US Hwy 64 for 9.0 miles to State Hwy 575 @ Milepost 73.4;

Go left (North-westerly) on State Hwy 575 for 0.7 miles to fork in road;

Go left (South-westerly) exiting State Hwy 575 for 0.5 miles to fork in road;

Go right (Westerly) through gate for 0.6 miles to staked location which overlaps an existing wellpad;