

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

Sundry Notices and Reports on Wells

1. Type of Well
GAS

2. Name of Operator
BURLINGTON
RESOURCES OIL & GAS COMPANY LP

3. Address & Phone No. of Operator
PO Box 4289, Farmington, NM 87499 (505) 326-9700

4. Location of Well, Footage, Sec., T, R, M

Surface: Unit L (NWSW) 2350' FSL & 1106' FWL, Sec. 12, T31N, R8W NMPPM
Bottomhole: Unit G (SWNE) 1875' FNL & 2390' FEL, Sec. 12, T31N, R8W

RECEIVED

MAY 15 2009

Bureau of Land Management
Farmington Field Office

5. Lease Number
NM-111921
6. If Indian, All. or
Tribe Name
7. Unit Agreement Name

8. Well Name & Number

Negro Canyon 5
9. API Well No.

30-045-34717

10. Field and Pool

Basin DK/Blanco MV

San Juan Co., NM

12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA

Type of Submission

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment

Type of Action

☐ Abandonment

☐ Recompletion

☐ Plugging

☐ Casing Repair

☐ Altering Casing

☒ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut off

☐ Conversion to Injection

☐ Other -

RCVD MAY 20 '09

OIL CONS. DIV.

13. Describe Proposed or Completed Operations

Burlington Resources requests permission to change the setting depth for the surface casing from 320' ~~TVD to 5200' TVD~~ and the intermediate casing from 5200' TVD to 4800' TVD. This change is to reduce the inclination to less than ten degrees for the top of the Lewis formation and will also improve the return of cement to surface for the intermediate casing. ✓ BLM (Troy Salyers) and OCD (Kelly Roberts and Steve Hayden) were contact 5/15/09 at 8:10am and 8:26am to discuss the above changes. ✓ The new well proposal and direction drill plan are attached. ✓

4800' TVD = 5200' M.D. - Keep 320 for surface pipe AF

14. I hereby certify that the foregoing is true and correct.

Signed Crystal Tafoya Crystal Tafoya Title Regulatory Technician Date 05/15/2009

(This space for Federal or State Office use)

APPROVED BY Troy L Salyers Title Petroleum Engineer Date 5/18/2009

CONDITION OF APPROVAL, if any:

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

CONDITIONS OF APPROVAL

Adhere to previously issued stipulations.

NMOCD

PC



ConocoPhillips & Burlington Resources

San Juan Basin New Mexico

SECTION 12

NEGRO CANYON #5

Wellbore #1

Plan: Design #1

Standard Planning Report

14 May, 2009

HATHAWAY HBBURNHAM
DIRECTIONAL & MWD SERVICES

Database: EDM 2003.21 Single User Db
Company: ConocoPhillips & Burlington Resources
Project: San Juan Basin New Mexico
Site: SECTION 12
Well: NEGRO CANYON #5
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well NEGRO CANYON #5
TVD Reference: NEG CYN #5 @ 6920.00ft (H&P 282)
MD Reference: NEG CYN #5 @ 6920.00ft (H&P 282)
North Reference: True
Survey Calculation Method: Minimum Curvature

Project: San Juan Basin New Mexico, NEW MEXICO

Map System: US State Plane 1927 (Exact solution)

System Datum:

Mean Sea Level

Geo Datum: NAD 1927 (NADCON CONUS)

Map Zone: New Mexico West 3003

Using geodetic scale factor

Site: SECTION 12, SEC 12 T31N, R8W

Site Position:		Northing:	2,113,798.03 ft	Latitude:	36.808768
From:	Lat/Long	Easting:	409,253.84 ft	Longitude:	-108.143317
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:	-0.19 °

Well: NEGRO CANYON #5, SHL LAT: 36.910696, LONG: -107.631979

Well Position	+N/-S	36,708.94 ft	Northing:	2,150,819.86 ft	Latitude:	36.910696
	+E/-W	149,703.43 ft	Easting:	558,867.28 ft	Longitude:	-107.631979
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	0.00 ft

Wellbore: Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	2009/05/13	10.10	63.69	51,080

Design: Design #1

Audit Notes:

Version: Phase: PROTOTYPE Tie On Depth: 0.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	59.28

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
350.00 ✓	0.00	0.00	350.00 ✓	0.00	0.00	0.00	0.00	0.00	0.00	
1,247.64	26.93	59.28	1,214.95	105.80	178.02	3.00	3.00 ✓	0.00	59.28	
4,298.55	26.93	59.28	3,935.05	811.74	1,365.80	0.00	0.00	0.00	0.00	
5,196.19 ✓	0.00	0.00	4,800.00 ✓	917.54	1,543.82	3.00	-3.00 ✓	0.00	180.00	N C #5 ICP
8,899.19	0.00	0.00	8,503.00	917.54	1,543.82	0.00	0.00	0.00	0.00	N C #5 PCP

Check'd
 4/15/10
 signature
 A



HATHAWAY BURNHAM

Planning Report



Database: EDM 2003.21 Single User Db
Company: ConocoPhillips & Burlington Resources
Project: San Juan Basin New Mexico
Site: SECTION 12
Well: NEGRO CANYON #5
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well NEGRO CANYON #5
NEG CYN #5 @ 6920.00ft (H&P 282)
NEG CYN #5 @ 6920.00ft (H&P 282)
True
Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
350.00	0.00	0.00	350.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	1.50	59.28	399.99	0.33	0.56	0.65	3.00	3.00	0.00
500.00	4.50	59.28	499.85	3.01	5.06	5.89	3.00	3.00	0.00
600.00	7.50	59.28	599.29	8.35	14.05	16.34	3.00	3.00	0.00
700.00	10.50	59.28	698.04	16.34	27.49	31.98	3.00	3.00	0.00
800.00	13.50	59.28	795.85	26.96	45.36	52.77	3.00	3.00	0.00
900.00	16.50	59.28	892.43	40.18	67.61	78.65	3.00	3.00	0.00
1,000.00	19.50	59.28	987.52	55.97	94.17	109.55	3.00	3.00	0.00
1,100.00	22.50	59.28	1,080.87	74.28	124.97	145.38	3.00	3.00	0.00
1,200.00	25.50	59.28	1,172.22	95.05	159.93	186.05	3.00	3.00	0.00
1,247.64	26.93	59.28	1,214.95	105.80	178.02	207.09	3.00	3.00	0.00
1,300.00	26.93	59.28	1,261.64	117.92	198.41	230.81	0.00	0.00	0.00
1,400.00	26.93	59.28	1,350.79	141.06	237.34	276.09	0.00	0.00	0.00
1,500.00	26.93	59.28	1,439.95	164.20	276.27	321.38	0.00	0.00	0.00
1,600.00	26.93	59.28	1,529.11	187.34	315.20	366.67	0.00	0.00	0.00
1,700.00	26.93	59.28	1,618.26	210.47	354.13	411.96	0.00	0.00	0.00
1,800.00	26.93	59.28	1,707.42	233.61	393.07	457.25	0.00	0.00	0.00
1,900.00	26.93	59.28	1,796.58	256.75	432.00	502.54	0.00	0.00	0.00
2,000.00	26.93	59.28	1,885.73	279.89	470.93	547.83	0.00	0.00	0.00
2,100.00	26.93	59.28	1,974.89	303.03	509.86	593.11	0.00	0.00	0.00
2,200.00	26.93	59.28	2,064.05	326.17	548.79	638.40	0.00	0.00	0.00
2,300.00	26.93	59.28	2,153.20	349.31	587.73	683.69	0.00	0.00	0.00
2,400.00	26.93	59.28	2,242.36	372.44	626.66	728.98	0.00	0.00	0.00
2,500.00	26.93	59.28	2,331.52	395.58	665.59	774.27	0.00	0.00	0.00
2,600.00	26.93	59.28	2,420.68	418.72	704.52	819.56	0.00	0.00	0.00
2,700.00	26.93	59.28	2,509.83	441.86	743.45	864.85	0.00	0.00	0.00
2,800.00	26.93	59.28	2,598.99	465.00	782.38	910.14	0.00	0.00	0.00
2,830.30	26.93	59.28	2,626.00	472.01	794.18	923.86	0.00	0.00	0.00
OJO ALAMO									
2,900.00	26.93	59.28	2,688.15	488.14	821.32	955.42	0.00	0.00	0.00
2,943.58	26.93	59.28	2,727.00	498.22	838.28	975.16	0.00	0.00	0.00
KIRTLAND									
3,000.00	26.93	59.28	2,777.30	511.27	860.25	1,000.71	0.00	0.00	0.00
3,100.00	26.93	59.28	2,866.46	534.41	899.18	1,046.00	0.00	0.00	0.00
3,200.00	26.93	59.28	2,955.62	557.55	938.11	1,091.29	0.00	0.00	0.00
3,300.00	26.93	59.28	3,044.77	580.69	977.04	1,136.58	0.00	0.00	0.00
3,400.00	26.93	59.28	3,133.93	603.83	1,015.97	1,181.87	0.00	0.00	0.00
3,500.00	26.93	59.28	3,223.09	626.97	1,054.91	1,227.16	0.00	0.00	0.00
3,600.00	26.93	59.28	3,312.24	650.11	1,093.84	1,272.45	0.00	0.00	0.00
3,700.00	26.93	59.28	3,401.40	673.24	1,132.77	1,317.73	0.00	0.00	0.00
3,709.65	26.93	59.28	3,410.00	675.48	1,136.52	1,322.10	0.00	0.00	0.00
FRUITLAND COAL									
3,800.00	26.93	59.28	3,490.56	696.38	1,171.70	1,363.02	0.00	0.00	0.00
3,900.00	26.93	59.28	3,579.71	719.52	1,210.63	1,408.31	0.00	0.00	0.00
4,000.00	26.93	59.28	3,668.87	742.66	1,249.56	1,453.60	0.00	0.00	0.00
4,100.00	26.93	59.28	3,758.03	765.80	1,288.50	1,498.89	0.00	0.00	0.00
4,154.93	26.93	59.28	3,807.00	778.51	1,309.88	1,523.77	0.00	0.00	0.00
PIC CLIFFS									
4,200.00	26.93	59.28	3,847.18	788.94	1,327.43	1,544.18	0.00	0.00	0.00
4,298.55	26.93	59.28	3,935.05	811.74	1,365.80	1,588.81	0.00	0.00	0.00

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Local Co-ordinate Reference:
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Well NEGRO CANYON #5
NEG CYN #5 @ 6920.00ft (H&P 282)
NEG CYN #5 @ 6920.00ft (H&P 282)
True
Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,300.00	26.89	59.28	3,936.34	812.07	1,366.36	1,589.47	3.00	-3.00	0.00
4,357.49	25.16	59.28	3,988.00	824.96	1,388.04	1,614.69	3.00	-3.00	0.00
LEWIS									
4,400.00	23.89	59.28	4,026.68	833.98	1,403.21	1,632.33	3.00	-3.00	0.00
4,466.57	21.89	59.28	4,088.00	847.20	1,425.46	1,658.22	3.00	-3.00	0.00
HUERF BENITONITE									
4,500.00	20.89	59.28	4,119.13	853.43	1,435.94	1,670.41	3.00	-3.00	0.00
4,600.00	17.89	59.28	4,213.45	870.39	1,464.47	1,703.60	3.00	-3.00	0.00
4,700.00	14.89	59.28	4,309.38	884.80	1,488.72	1,731.81	3.00	-3.00	0.00
4,800.00	11.89	59.28	4,406.65	896.62	1,508.62	1,754.95	3.00	-3.00	0.00
4,900.00	8.89	59.28	4,505.00	905.83	1,524.11	1,772.98	3.00	-3.00	0.00
4,995.82	6.01	59.28	4,600.00	912.18	1,534.79	1,785.40	3.00	-3.00	0.00
CHACRA									
5,000.00	5.89	59.28	4,604.16	912.40	1,535.16	1,785.83	3.00	-3.00	0.00
5,100.00	2.89	59.28	4,703.85	916.31	1,541.74	1,793.48	3.00	-3.00	0.00
5,196.19	0.00	0.00	4,800.00	917.54	1,543.82	1,795.90	3.00	-3.00	0.00
5,200.00	0.00	0.00	4,803.81	917.54	1,543.82	1,795.90	0.00	0.00	0.00
5,300.00	0.00	0.00	4,903.81	917.54	1,543.82	1,795.90	0.00	0.00	0.00
5,383.19	0.00	0.00	4,987.00	917.54	1,543.82	1,795.90	0.00	0.00	0.00
MASS CLF HOUSE									
5,400.00	0.00	0.00	5,003.81	917.54	1,543.82	1,795.90	0.00	0.00	0.00
5,500.00	0.00	0.00	5,103.81	917.54	1,543.82	1,795.90	0.00	0.00	0.00
5,600.00	0.00	0.00	5,203.81	917.54	1,543.82	1,795.90	0.00	0.00	0.00
5,700.00	0.00	0.00	5,303.81	917.54	1,543.82	1,795.90	0.00	0.00	0.00
5,800.00	0.00	0.00	5,403.81	917.54	1,543.82	1,795.90	0.00	0.00	0.00
5,900.00	0.00	0.00	5,503.81	917.54	1,543.82	1,795.90	0.00	0.00	0.00
6,000.00	0.00	0.00	5,603.81	917.54	1,543.82	1,795.90	0.00	0.00	0.00
6,100.00	0.00	0.00	5,703.81	917.54	1,543.82	1,795.90	0.00	0.00	0.00
6,200.00	0.00	0.00	5,803.81	917.54	1,543.82	1,795.90	0.00	0.00	0.00
6,221.19	0.00	0.00	5,825.00	917.54	1,543.82	1,795.90	0.00	0.00	0.00
MANCOS									
6,300.00	0.00	0.00	5,903.81	917.54	1,543.82	1,795.90	0.00	0.00	0.00
6,400.00	0.00	0.00	6,003.81	917.54	1,543.82	1,795.90	0.00	0.00	0.00
6,500.00	0.00	0.00	6,103.81	917.54	1,543.82	1,795.90	0.00	0.00	0.00
6,600.00	0.00	0.00	6,203.81	917.54	1,543.82	1,795.90	0.00	0.00	0.00
6,700.00	0.00	0.00	6,303.81	917.54	1,543.82	1,795.90	0.00	0.00	0.00
6,800.00	0.00	0.00	6,403.81	917.54	1,543.82	1,795.90	0.00	0.00	0.00
6,900.00	0.00	0.00	6,503.81	917.54	1,543.82	1,795.90	0.00	0.00	0.00
7,000.00	0.00	0.00	6,603.81	917.54	1,543.82	1,795.90	0.00	0.00	0.00
7,100.00	0.00	0.00	6,703.81	917.54	1,543.82	1,795.90	0.00	0.00	0.00
7,200.00	0.00	0.00	6,803.81	917.54	1,543.82	1,795.90	0.00	0.00	0.00
7,300.00	0.00	0.00	6,903.81	917.54	1,543.82	1,795.90	0.00	0.00	0.00
7,400.00	0.00	0.00	7,003.81	917.54	1,543.82	1,795.90	0.00	0.00	0.00
7,500.00	0.00	0.00	7,103.81	917.54	1,543.82	1,795.90	0.00	0.00	0.00
7,600.00	0.00	0.00	7,203.81	917.54	1,543.82	1,795.90	0.00	0.00	0.00
7,700.00	0.00	0.00	7,303.81	917.54	1,543.82	1,795.90	0.00	0.00	0.00
7,800.00	0.00	0.00	7,403.81	917.54	1,543.82	1,795.90	0.00	0.00	0.00
7,822.19	0.00	0.00	7,426.00	917.54	1,543.82	1,795.90	0.00	0.00	0.00
UPP GLLP									
7,900.00	0.00	0.00	7,503.81	917.54	1,543.82	1,795.90	0.00	0.00	0.00
8,000.00	0.00	0.00	7,603.81	917.54	1,543.82	1,795.90	0.00	0.00	0.00
8,100.00	0.00	0.00	7,703.81	917.54	1,543.82	1,795.90	0.00	0.00	0.00
8,200.00	0.00	0.00	7,803.81	917.54	1,543.82	1,795.90	0.00	0.00	0.00

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 TVD Reference: NEG CYN #5 @ 6920.00ft (H&P 282)
 MD Reference: NEG CYN #5 @ 6920.00ft (H&P 282)
 North Reference: True
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,300.00	0.00	0.00	7,903.81	917.54	1,543.82	1,795.90	0.00	0.00	0.00
8,400.00	0.00	0.00	8,003.81	917.54	1,543.82	1,795.90	0.00	0.00	0.00
8,500.00	0.00	0.00	8,103.81	917.54	1,543.82	1,795.90	0.00	0.00	0.00
8,555.19	0.00	0.00	8,159.00	917.54	1,543.82	1,795.90	0.00	0.00	0.00
GREENHORN									
8,600.00	0.00	0.00	8,203.81	917.54	1,543.82	1,795.90	0.00	0.00	0.00
8,613.19	0.00	0.00	8,217.00	917.54	1,543.82	1,795.90	0.00	0.00	0.00
GRANEROS									
8,700.00	0.00	0.00	8,303.81	917.54	1,543.82	1,795.90	0.00	0.00	0.00
8,719.19	0.00	0.00	8,323.00	917.54	1,543.82	1,795.90	0.00	0.00	0.00
TWO WELLS									
8,739.19	0.00	0.00	8,343.00	917.54	1,543.82	1,795.90	0.00	0.00	0.00
PAGUATE									
8,748.19	0.00	0.00	8,352.00	917.54	1,543.82	1,795.90	0.00	0.00	0.00
UPP CUBERO									
8,778.19	0.00	0.00	8,382.00	917.54	1,543.82	1,795.90	0.00	0.00	0.00
LOWER CUBERO									
8,800.00	0.00	0.00	8,403.81	917.54	1,543.82	1,795.90	0.00	0.00	0.00
8,848.19	0.00	0.00	8,452.00	917.54	1,543.82	1,795.90	0.00	0.00	0.00
ENCINAL									
8,899.19	0.00	0.00	8,503.00	917.54	1,543.82	1,795.90	0.00	0.00	0.00

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,830.30	2,626.00	OJO ALAMO			
2,943.58	2,727.00	KIRTLAND			
3,709.65	3,410.00	FRUITLAND COAL			
4,154.93	3,807.00	PIC CLIFFS			
4,357.49	3,988.00	LEWIS			
4,466.57	4,088.00	HUERF BENITONITE			
4,995.82	4,600.00	CHACRA			
5,383.19	4,987.00	MASS CLF HOUSE			
6,221.19	5,825.00	MANCOS			
7,822.19	7,426.00	UPP GLLP			
8,555.19	8,159.00	GREENHORN			
8,613.19	8,217.00	GRANEROS			
8,719.19	8,323.00	TWO WELLS			
8,739.19	8,343.00	PAGUATE			
8,748.19	8,352.00	UPP CUBERO			
8,778.19	8,382.00	LOWER CUBERO			
8,848.19	8,452.00	ENCINAL			

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

NEGRO CANYON 5

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7497				AFE \$: 1,145,208.09	
Field Name: hBR_SAN JUAN		Rig: H&P Rig 282		State: NM	County: SAN JUAN		API #: 3004534717
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist:		Phone:		Prod. Engineer:		Phone:	
Res. Engineer: McKee, Cory J		Phone: +1 505-326-9826		Proj. Field Lead:		Phone:	
Primary Objective (Zones):							
Zone	Zone Name						
RON	BLANCO MESAVERDE (PRORATED GAS)						
FRR	BASIN DAKOTA (PRORATED GAS)						
New							
Location: Surface Datum Code: NAD 27 Deviated							
Latitude: 36.910686	Longitude: -107.631918	X:	Y:	Section: 12		Range: 008W	
Footage X: 1125 FWL		Footage Y: 2345 FSL		Elevation: 6905 (FT)	Township: 031N		
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27 Deviated							
Latitude: 36.913216	Longitude: -107.626699	X:	Y:	Section: 12		Range: 008W	
Footage X: 2390 FEL		Footage Y: 1875 FNL		Elevation:	(FT) Township: 031N		
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2009		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6921 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	200	6721	☐			12-1/4" hole. 9-5/8", 32.3 ppf, H-40, STC casing. Cement with 270 cubic feet. Circulate cement to surface.	
OJO ALAMO	2627	4294	☐				
KIRTLAND	2728	4193	☐				
FRUITLAND COAL	3411	3510	☐				
PICTURED CLIFFS	3808	3113	☐				
LEWIS	3989	2932	☐				
HUERFANITO BENTONITE	4601	2320	☐				
Intermediate Casing	4800	2121	☐			8-3/4" hole. 7", 23 ppf, L-80, LTC casing. Cement with 1546 cubic feet. Circulate cement to surface.	
CHACRA	4988	1933	☐				
MASSIVE CLIFF HOUSE	5733	1188	☐	375		Gas	
MENEFEE	5826	1095	☐				
MASSIVE POINT LOOKOUT	6129	792	☐				
MANCOS	6546	375	☐				
UPPER GALLUP	7427	-506	☐				
GREENHORN	8160	-1239	☐				
GRANEROS	8218	-1297	☐				
TWO WELLS	8324	-1403	☐	2650		Gas	
PAGUATE	8344	-1423	☐				
UPPER CUBERO	8353	-1432	☐				
LOWER CUBERO	8383	-1462	☐				
ENCINAL	8453	-1532	☐				
Total Depth	8504	-1583	☐				

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

NEGRO CANYON 5

DEVELOPMENT

TOTAL DEPTH DK	8504	-1583	☐	6-1/4" hole. 4-1/2", 11.6 ppf, L-80, LTC casing. Cement with 544 cubic feet. Circulate cement a minimum of 100' inside the previous casing string.
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Reference Wells:		
Reference Type	Well Name	Comments

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

TD Logs:	☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other
Est bottom perf ~35+' above the est TD. Mud log from ~100 above the Gallup to TD. Run GSL to determine Encinal completion.	

Additional Information:					
Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks

Burlington Resources

Negro Canyon #5

T - 31 N Objective: MV/DK New Drill
R - 8 W Footages: 2350' FSL, 1106' FWL
Sec 12

Estimated Day: 1/17/1900 Well Type: MV/DK S-Curve (Long)
Rig: H&P 282 BLM Phone #
GL: 6905' 505-599-8907
KB: 6921' OCD Phone #
505-334-6178

API # 30-045-34717
APD/BLM: 2/24/2009
Network # 10220570
AFD # WAN CDR.7497
Lease # NM-111921
Like-Kind 174.08 \$/FT
(AFE) Cost \$1,145,208

San Juan Division - Drilling Program

In case of Major Emergency Call 911

Give the following information to Operator:

County: San Juan
State: NM
Well Name: Negro Canyon #5
Latitude: 36 degrees, 54 minutes, 38.52 sec(NAD83)
Longitude: 107 degrees, 37 minutes, 57.324 sec(NAD83)
From Hwy 511 at MP 20.5, go 20.5, Go northeasterly 0.7 miles. Stay left and go 0.7 miles to top of hill. Turn left, go 1.0 miles to location

Closed Loop Equipment due to tight location / Cutting Pit on side - on location instead of behind rig

Environmental, Health & Safety

	TRIR*	FAC	Restrict'd Duty	MTC	LWC
Goal	2.1	0	0	0	0
Actual (02/19/09)	0	16	0	0	0

Negro Canyon #1 (MV/DK, 2 mi S, 2005, AWS 301, vertical); Drld 8 3/4" pilot hole T/ 131' through boulders, FOOH, FIH w/ 12-1/4" bit & underreamed T/ 12-1/4" T/ 131' & then drld new hole T/ 277' (boulders), set 9-5/8" csg @ 277' & cmt d w/ 200% excess cmt & circ 20 bbls T/ surf Drld 8-3/4" new hole T/ 4090' w/ G109C bit @ an ROP of 76 ft/hr, no losses reported in Wellview, mudded up @ 4050', at int TD circ btms up w/ 1 pallet of Federal Seal Cmt d 7" csg @ 4085' w/ 100% excess & circ 33 bbls T/ surf (single stage) Air drld 6-1/4" hole T/ 8490', ROP for hammer @ 106 ft/hr 1 and cmt d 4-1/2" csg @ 8488' & cmt w/ 40% excess & had an overlap of 785' into previous csg

Negro Canyon #101S (FC, twinned well, 2004, AWS 301, directional, Cavitation); Drld 8 3/4" pilot hole & underreamed T/ 12-1/4" surface hole T/ 286' (Boulders), set 9-5/8" csg @ 280' & cmt d w/ 200% excess cmt & circ 19 bbls T/ surf. Drld 8-3/4" int hole T/ 4218' While running 7" csg attempted T/ circ through csg & pressured up stuck csg Wrkd stuck csg and healed losses incurred (400 bbls) Cmt d 7" csg @ 4192' & 125% excess & circ 100 bbls T/ surf (single stage) Drld 6-1/4" hole T/ 4693' & cavitated well & set 5-1/2" liner

Negro Canyon #101F (FC, twinned well, 2004, AWS 301, directional, Cavitation); Drld 8 3/4" pilot hole & underreamed T/ 12-1/4" surface hole (Boulders @ 5 ft T/ 112') @ 238' set 9-5/8" csg @ 276' & cmt d w/ 250% excess cmt & circ 19 bbls T/ surf Drld 8-3/4" int hole T/ 4254' Run & cmt d 7" csg @ 4254' w/ 110% excess & circ 65 bbls T/ surf (single stage) Drld 6-1/4" hole T/ 4720' & cavitated well & set 5-1/2" liner

Run piggyback plug for 4-1/2" cement job, make sure Schlumberger brings 2ft wiper plug chamber for cement head

- Use 4" high torque connection drill pipe for entire well, cross over required to 4-1/2" HWPDP

Directional Info		Plan Sections			
Measured Depth	Inclination	Azimuth	Vertical Depth	Dogleg Rate	Casing Point
0 0	0 00	0 0	0 0	0 0	
350.0	0 00	0 0	350 0	0.0	Kick Off
1247 5	26 93	59 27	1214 9	3.0	Finish Build
4298 6	26 93	59 27	3935 1	0.0	Start Drop
5196.1	0 00	0 0	4800 0	-3.0	Int. Csg Point
8899 1	0 00	0 0	8503 0	0.0	Prod Csg Point

- 50' radius of bttm hole location/Hardline 50 ft W & 50 ft S on bttm hole location
- Drll out surface cmt with directional equipment, drill to KOP of 350'
- A 6 1/2" E-Field MWD tool will be used, Run 6-1/2", 7 8, 0 24 rev/gpm, 5 0 motor for directional work.
If directional plan changes recalculate position and drill to TVD If deviation at int TD exceeds 5" call office for further instruction
- At 7" casing point (5196 1' TMD, 4800' TVD), TOH W/ drlg assembly & TIH W/ insert bit for wiper trip

Target Info
- Bottom hole location is 1875' FNL and 2390' FEL (section 12)
- Target is 917 5 N and 1543.6 E from surface stake
- BHL is 1798.3' in azimuth of 59.27' from surface location.
- Run 24 jts of 4 1/2" HW pipe for intermediate hole
- Run six 4" HWPDP XT39 for air BHA; use 20 DCs if mud drilling necessary.
- Caliper everything that goes through the table.
- Cement company will be Schlumberger. Pump cement job no greater than 4 BPM.
- Hold cmt surface lines pressure tests for at least 5 minutes and then release. Bump plugs with at least 500 psi over final circulating pressure & hold pressure for at least 10 minutes Release pressure slowly Record amount of water flow back to cm mixer tank & last slurry wgt returned to surface in the final vendor cmt report & Wellview
- Install drilling head rotating rubber once BHA is burned.
- Well should take an estimated 17 days to drill
- Have Blooie line rigged up prior to drilling the Kirtland
- MSO contact is Jeff Sandoval, cell phone (505) 320-2633
- Well is BLM, twinned with the Negro Canyon 101S & Negro Canyon 101
- Call both regulatory agencies 24 hours in advance of BOP testing, spud, running csg, or cementing Leave message if after hours.
Have mudloggers F/ SoftRock (970-247-8368) on location 100' above the Gallup to TD / No GH LOGS

Rev 0: (0 mean no revision)

TVD	TMD	Geology	Hydraulics	Drig Fluids	Cement	Materials
0'	0	San Jose	8-3/4" pilot hole followed by 13-1/2" bit	Spud Mud / 100 vis	Surface Cement Procedure Preflush: 20 bbls fresh water Lead - No Tail Class G, 2% S1 CaCl, 25 lb/ax Cello Flakes 240 sks 15.8 ppg 4.97 gal/sk 270 cu ft = 48 bbls 1.17 cu ft/sk 300%	1 Woodgroup wellhead 1 Wellhead fuzz cap 200 feet 9-5/8" 32 3/8 H-40 STC 1 9-5/8" concret nose guide shoe 3 Bow Type Centralizers / 1 Rubber Plug
200'	200	SCP			Single Stage Intermediate Cement Procedure Preflush: 10 bbls polymer gel water, 10 bbls FW Scav: 75% X / 25% Class G, 25 lb/ax Cello Flakes (D29, lost circ), 3% Sodium Metasilicate (D79, ext), 20% (D46) Antifoam 15 sks 10.3 ppg 23.81 gal/sk 56.1 cu ft = 10 bbls 3.64 cu ft/sk 0%	Intermediate String 1 7" Float Shoe (Gemoco) 40 feet Shoe Joint 7", 23# J-55 LTC 1 7" Float Collar (Gemoco) 1044 feet 7" 23# J-55 LTC 1 7" Shoe 23# LTC 3509 feet 7" 23.0# J-55 LTC
2627'	2627	Ojo Alamo			Lead 75% X / 25% Class G, 25 lb/ax Cello Flakes (D29, lost circ), 3% Sodium Metasilicate (D79, ext), 20% (D46) Antifoam 630 sks 11.7 ppg 12.43 gal/sk 1324 cu ft = 238 bbls 2.10 cu ft/sk 100%	34 7/8 8-3/4" Tandem Rise, 10' above shoe ft 2nd, 4th, 6th, 8th, 10th & then every 4th ft T/ inside surf shoe
2728'	2728	Kirtland			2-Stage Intermediate Cement Procedure Preflush: 10 bbls polymer gel water, 10 bbls FW Scav: 75% X / 25% Class G, 25 lb/ax Cello Flakes (D29, lost circ), 3% Sodium Metasilicate (D79, ext), 20% (D46) Antifoam 15 sks 10.3 ppg 23.81 gal/sk 57 cu ft = 10 bbls 3.64 cu ft/sk 0%	Production String 1 4-1/2" Float Shoe (Gemoco) 1 4-1/2" Float Collar w/ Insert and latch in plug 329 feet 4-1/2" 11.6#, L-80 LT&C 10 feet 4-1/2" 11.6#, L-80 LT&C marker jt 150' above the Graneros 4984 feet 4-1/2" 11.6#, L-80 LT&C to surface
3411'	3411	Fruitland			Tail: 50:50 POZ/ Mtn G, 25 lb/ax Cellophane Flake (D29, lost circ), 5 lb/ax Gilsonite (D24, ext), 2% Bent (D20, ext), 15% Fric Reducer (D66, Dispersant), 1% D46 (Antifoam) 140 sks 11.7 ppg 12.43 gal/sk 294 cu ft = 53 bbls 3.64 cu ft/sk 100%	7 4-1/2" x 6-1/4" bowspring central, every other joint for the last 12 joints and one in 7" shoe
3806'	3806	Pictured Cliffs			Tail: 50:50 POZ/ Mtn G, 25 lb/ax Cellophane Flake (D29, lost circ), 5 lb/ax Gilsonite (D24, ext), 2% Bent (D20, ext), 15% Fric Reducer (D66, Dispersant), 1% D46 (Antifoam) 140 sks 11.7 ppg 12.43 gal/sk 168 cu ft = 30 bbls 1.26 cu ft/sk 0%	Totals 9046 feet 4-1/2" 11.6#, L-80 LT&C + 150 feet extra 7 4-1/2" x 6-1/4" bowspring cent, 1 every other ft for the 1st 10 joints, then one above the 7" shoe
3988'	3988	Lewis			Preflush: 10 bbls polymer gel water, 2 bbls FW Scav: 75% X / 25% Class G, 25 lb/ax Cello Flakes (D29, lost circ), 3% Sodium Metasilicate (D79, ext), 20% (D46) Antifoam 21 sks 11.0 ppg 23.81 gal/sk 57 cu ft = 10 bbls 3.64 cu ft/sk 0%	Production Cement Procedure Preflush: 10 bbls of gelled wtr, 2 bbls wtr Scav: 50:50 POZ/ Mtn G, 25 lb/ax Cello-Flake (D29, lost circ), 5 lb/ax Kolite (D42, ext), 3.5% Bent (D20, ext), 25% FL (D167), 15% FR (D65, Disp), 15% ret (D198), 1% antifoam (D46) 15 sks 12.0 ppg 9.47 gal/sk 29 cu ft = 6 bbls 1.83 cu ft/sk 0%
4601'	4601	Huerfano Bentonite			Lead 75% X / 25% Class G, 25 lb/ax Cello Flakes (D29, lost circ), 3% Sodium Metasilicate (D79, ext), 20% (D46) Antifoam 470 sks 11.7 ppg 12.43 gal/sk 973.4 cu ft = 2.10 cu ft/sk 100%	360 sks 13.0 ppg 6.55 gal/sk 515 cu ft = 92 bbls 1.44 cu ft/sk 40%
4800'	4800	ICP				
4988'	4988	Chacra				
5733'	5733	Massive Cliffhouse				
5826'	5826	Menefee				
6129'	6129	Point Lookout				
6546'	6546	Mancos Shale				
7427'	7427	Upper Gallup	New Diamond Air 6-1/4" Bit Marquis CV462 on Halco Hammer	Air/Nitrogen 1800-2000 cfm 400 - 500 psi		
8160'	8553	Greenhorn				
8218'	8611	Graneros				
8324'	8717	Two Wells	2-4 K WOB 30-40 RPM	Run 1-3 #ft tube beads for friction		
0'	0		Slow ROP before drilling into the top of Greenhorn Reduce WOB to 2,000 & RPM to 25	Oxygen conc MUST be 8% or less while drilling prod hole section.		
8344'	8737	Paguete				
8344'	8746	Upper Cubero				
8503'	8846	Encinal				
8468'	8861	Est Btm Perf		N2 on at drillout of 7" shoe		
8499'	8892	Est PBTD				
8503'	8896	TD				

Prepared: Alexander Galindo - Drilling Engineer

Reviewed: Shon Robinson - Drilling Engineering Supervisor

Approved: Terry Carpenter - Drilling Superintendent

Prepared: 5/14/2009