

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RCVD AUG 12 '08

OIL CONS. DIV.

DIST. 3

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	RECEIVED MAR 17 2008 Bureau of Land Management Farmington Field Office	5. Lease Number USA NM-111921 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
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700		8. Farm or Lease Name Negro Canyon 9. Well Number #4M
4. Location of Well Surf: Unit M(SWSW), 860' FSL & 880' FWL Bottomhole: Unit D(NWNW), 710' FNL & 1065' FWL Surf: Latitude 36.930750° N Longitude 107.632131° W Bottomhole: Latitude 36.935073° N Longitude 107.632706° W		10. Field, Pool, Wildcat Basin DK/Blanco MV 11. Sec., Twn, Rng, Mer. (NMPM)X Surface: Sec. M-36, T-32, R-8W Bottomhole: D1, 31N, N8W, 3W API # 30-045-34643
14. Distance in Miles from Nearest Town 30 miles/Blanco	12. County San Juan	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 710'		
16. Acres in Lease 1,241.850	17. Acres Assigned to Well 320.00 Acres (W/2) 304.16	
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 53' from Albino Canyon #1		
19. Proposed Depth 8440'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6835' GR	22. Apprx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached	Hold C104 for Directional Survey and "As Drilled" plat	
24. Authorized by: <u>Crystal Walker</u> Crystal Walker (Regulatory Technician)	<u>3/17/08</u> Date	

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY [Signature] TITLE AFM DATE 8/11/08

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.

Example Master Plan Type 3

BLM'S APPROVAL OR ACCEPTANCE OF THE ACTION DOES NOT RELIEVE THE LESSEE A OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATION ON FEDERAL AND INDIAN LANDS

**NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT**

AUG 14 2008

Bond Numbers NMB-000015 and NMB-000089

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

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

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

DISTRICT II
1301 West Grand Avenue, Artesia, N.M. 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

Submit to
RECEIVE
2008

MAR 17 2008

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-34643		*Pool Code 71599/72319	*Pool Name BASIN DAKOTA/BLANCO MESAVERDE	
*Property Code 34287	*Property Name NEGRO CANYON			*Well Number 4M
*OGRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP			*Elevation 6835'

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
M	36	32-N	8-W		860'	SOUTH	880'	WEST	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

UL or lot no. D	Section 1	Township 31-N	Range 8-W	Lot Idn	Feet from the 710'	North/South line NORTH	Feet from the 1065'	East/West line WEST	County SAN JUAN
¹² Dedicated Acres <i>3/19/08</i> 320.00 <i>304.16</i>			¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.		

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

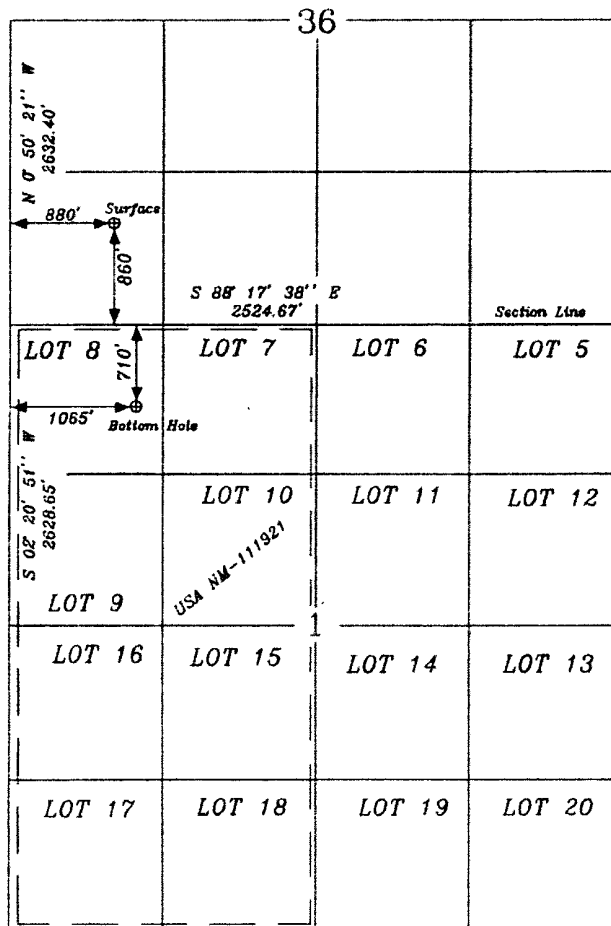
16

Surface
LAT: 36°56.1041' N.
LONG: 107°37.9257' W.
NAD 1927

LAT: 36.935073 N.
LONG: 107.632706 W.
NAD 1983

Bottom Hole
LAT: 36°55.8448' N.
LONG: 107°37.8911' W.
NAD 1927

LAT: 36.930750° N.
LONG: 107.632131° W.
NAD 1983



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 an agreement with an owner of a working interest in a working interest or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Captal Walker 3/14/08
Signature

Crystal Walker 3-14-08
Printed Name

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.

9-14-07
Date of Survey

Date of Survey: _____

Signature and Seal of Professional Surveyor: _____

Signature and Seal of Professional Surveyor:

15703

100-443887-100

SECRET

RECEIVED BY THE DIRECTOR, FBI

PROFESSION

Causes of

C. Lee W. Russell

Certificate Number 1570.

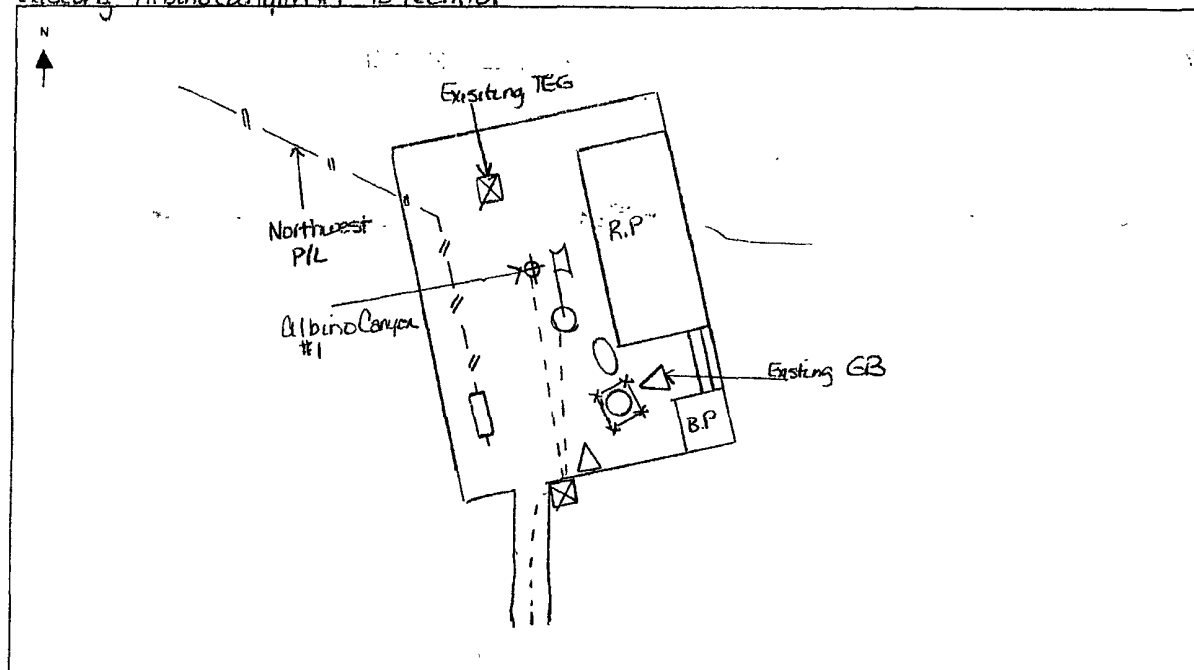


TECHNICAL SERVICES
A SURVEILLANCE COMPANY

CATHODIC PROTECTION PLAN FOR NEW WELLS

WELL NAME Negro Canyon #4M LEGALS M-36-32-8 COUNTY San Juan

PURPOSED C.P. SYSTEM: Drill GB and set rectifier on SE edge of location. Set up of existing SP on W side of main road and trench approx 1000' of A/C from MP to rectifier. Trench approx 200' of #8 neg from proposed well to rectifier. Trench approx 475' of #8 neg from existing Albino Canyon #1 to rectifier.



EXISTING WELLHEAD	METER HOUSE	GB	POWER SOURCE	CABLE	NEW WELL	OVERHEAD A.C.

COMMENTS: _____

NEAREST POWER SOURCE Overhead A/C DISTANCE: 1000'

PIPELINES IN AREA: Northwest P/L Comp.

TECHNICIAN: Nicholas Hargrave DATE: 10/20/07

6 CR 5412 BLOOMFIELD, N.M. 87413
OFFICE: 505-634-0271 CELL: 505-793-6953

Solar
R.L.

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

NEGRO CANYON 4M

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7256				AFE \$:	
Field Name: hBR_SAN JUAN		Rig: XXX 2009 Deep Directional		State: NM	County: SAN JUAN		API #:
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist: Head, Chip F		Phone: 505-326-9772		Prod. Engineer:		Phone:	
Res. Engineer: Prabowo, Wahyu		Phone: 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							
Latitude: 36.935069		Longitude: -107.632094		X:	Y:	Section: 36	Range: 008W
Footage X: 880 FWL		Footage Y: 860 FSL		Elevation: 6835 (FT)		Township: 032N	
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27							
Latitude: 36.930746		Longitude: -107.631519		X:	Y:	Section: 01	Range: 008W
Footage X: 1065 FWL		Footage Y: 710 FNL		Elevation: (FT)		Township: 031N	
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2009		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6847 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	200	6647	☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 203 cuft. Circulate cement to surface.	
OJO ALAMO	2477	4370	☐				
KIRTLAND	2630	4217	☐				
FRUITLAND	3400	3447	☐			Possible Gas	
PICTURED CLIFFS	3737	3110	☐				
LEWIS	3884	2963	☐				
Intermediate Casing	4400	2447	☐			8 3/4" Hole. 7", 20/23 ppf, J-55, STC/LTC Casing. Cement with 1058 cuft. Circulate cement to surface.	
HUERFANITO BENTONITE	4519	2328	☐				
CHACRA	4924	1923	☐				
MASSIVE CLIFF HOUSE	5644	1203	☐	570		Gas	
MENEFEE	5744	1103	☐				
MASSIVE POINT LOOKOUT	6037	810	☐				
MANCOS	6377	470	☐				
UPPER GALLUP	7358	-511	☐				
GREENHORN	8095	-1248	☐				
GRANEROS	8146	-1299	☐				
TWO WELLS	8251	-1404	☐	2700		Gas	
PAGUATE	8274	-1427	☐				
UPPER CUBERO	8283	-1436	☐				
LOWER CUBERO	8317	-1470	☐				
ENCINAL	8386	-1539	☐				

PROJECT PROPOSAL - New Drill / Sidetrack

NEGRO CANYON 4M

DEVELOPMENT

TOTAL DEPTH DK 8440 -1593 ☐

6-1/4" Hole. 4-1/2", 10.6/11.6 ppf, J-55 STC/LTC casing.
Cement with 551 cuft. Circulate cement a minimum of 100'
inside the previous casing string.

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

GR/CBL. Estimated bottom perf is ~20' above TD. Mudlog from ~100' above the Greenhorn to TD.

Additional Information:

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

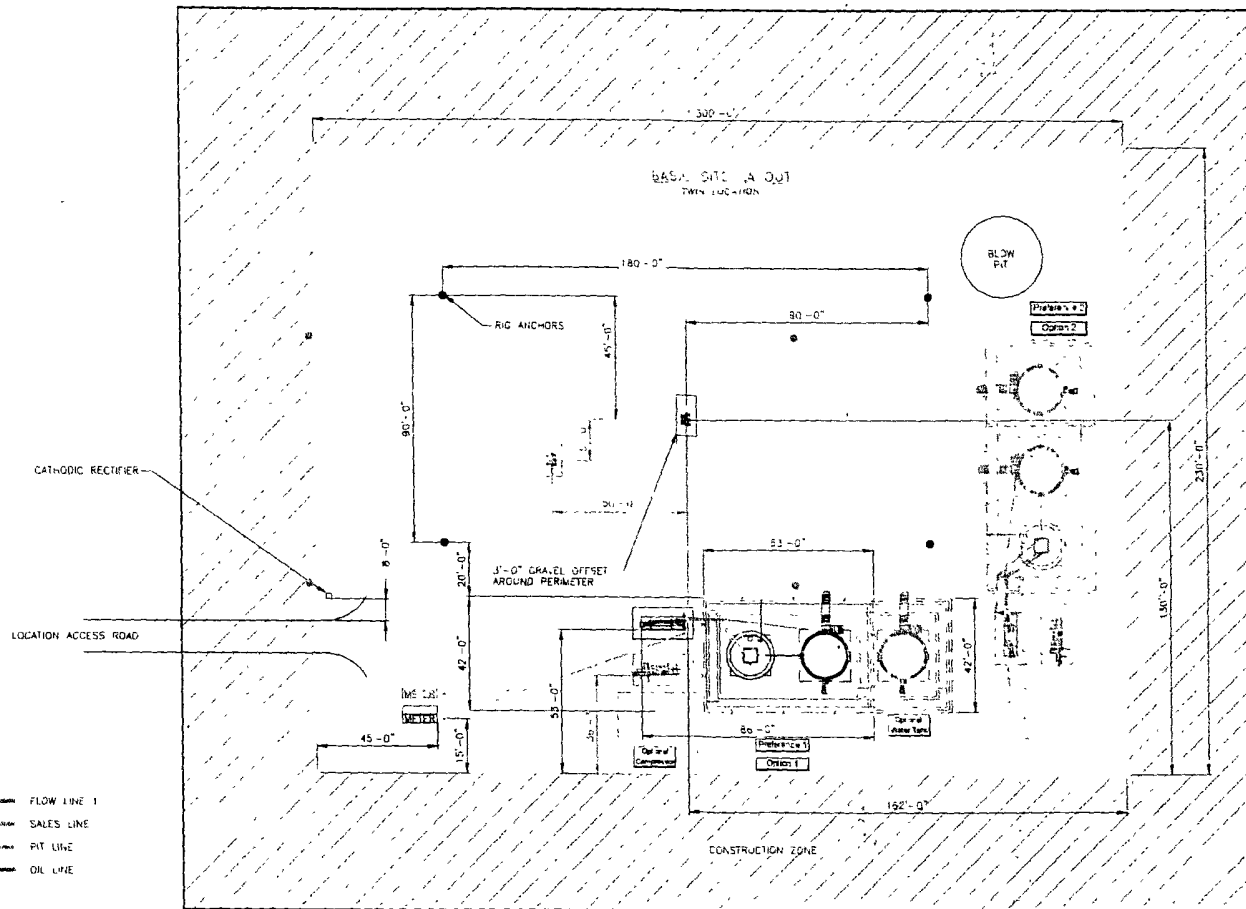
Survey Report

Company:	ConocoPhillips SJB	Local Co-ordinate Reference:	Well Negro Canyon #4M
Project:	San Juan Basin	TVD Reference:	WELL @ 6850.0ft (Original Well Elev)
Site:	Monty's Site for directional MV/DK wells	MD Reference:	WELL @ 6850.0ft (Original Well Elev)
Well:	Negro Canyon #4M	North Reference:	True
Wellbore:	Negro Canyon #4M	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM Central Planning

Targets									
Target Name	hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	
Shape		(°)	(°)	(ft)	(ft)	(ft)	(m)	(m)	
Negro Canyon #4M - PC		0.00	0.00	8,440.0	-1,570.0	185.0	-479.39	49.53	30° 59' 8.973 N 109° 25' 41.969 W
- plan hits target									
- Point									
Negro Canyon #4M - ICI		0.00	0.00	4,400.0	-1,570.0	185.0	-479.39	49.53	30° 59' 8.973 N 109° 25' 41.969 W
- plan hits target									
- Point									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
6,086.2	5,744.0	Menefee		0.00		
8,782.2	8,440.0	TD		0.00		
2,831.5	2,630.0	Kirtland		0.00		
5,266.2	4,924.0	Chacra		0.00		
8,659.2	8,317.0	Lower Cubero		0.00		
8,593.2	8,251.0	Two Wells		0.00		
8,437.2	8,095.0	Greenhorn		0.00		
3,693.4	3,400.0	Fruitland		0.00		
8,728.2	8,386.0	Encinal		0.00		
4,861.2	4,519.0	Huerfano Bent		0.00		
8,625.2	8,283.0	Upper Cubero		0.00		
8,488.2	8,146.0	Graneros		0.00		
2,660.3	2,477.0	Ojo Alamo		0.00		
4,065.1	3,737.0	Pictured Cliffs		0.00		
5,986.2	5,644.0	Mass Cliffhouse		0.00		
7,700.2	7,358.0	Gallup		0.00		
6,719.2	6,377.0	Mancos Shale		0.00		
8,616.2	8,274.0	Paguate		0.00		
6,379.2	6,037.0	Pt Lookout		0.00		
4,219.7	3,884.0	Lewis		0.00		

Checked By: _____ Approved By: _____ Date: _____



FLOW LINE 1
 SALES LINE
 PIT LINE
 OIL LINE

SEE SHEET 2 & 4 FOR PIPING DETAILS
 ALL UNDERGROUND PIPE IS TO BE BURIED 4' MIN. OR 3'-0" TOP

SHEET 1 OF 5

										ENGINEERING REVIEW			REFERENCE DRAWINGS			CONOCOPhillips		CONSCO PHILLIPS HIGH PRESSURE 3 PHASE FACILITY DIAGRAM - SITE LAYOUT						
										DISCIPLINE	REVIEWED	DATE	NO.	DESCRIPTION										
										PROCESS														
										MECHANICAL														
										PIPING														
										ELECTRICAL														
										INSTRUMENTATION														
										STRUCTURAL														
										PROJECT														
DESCRIPTION										DATE	BY	CHECKED	ENG	DES	PA	SAN JUAN BUSINESS UNIT			CONSCO No. DRAWN BY		CONSCO No. CHECKED BY		DATE 15 05 14	
																			HP3PHASE-REV1					

Process: Shiprock/Wellhead/Regulatory/Item Location Site Layout/06/28/2007 - 023500