

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RCVD FEB 27 '08

OIL CONS. DIV.

DIST. 3

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	RECEIVED SEP 26 2007 Bureau of Land Management Farmington Field Office	5. Lease Number USA NM-03863
1b. Type of Well GAS		Unit Reporting Number NMNM-78410C-DK 6. If Indian, All. or Tribe NMNM-78410A-MV
2. Operator BURLINGTON RESOURCES Oil & Gas Company, LP	7. Unit Agreement Name *San Juan 28-4 Unit	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name 9. Well Number #37M	
4. Location of Well Surf: Unit P (SESE), 598' FSL & 845' FEL BH: Unit J (NWSE), 1440' FSL & 1835' FEL Surf: Latitude 36° 37.550035 N Longitude 107° 16.032996 W BH: Latitude 36° 37.690013 N Longitude 107° 16.209815 W	10. Field, Pool, Wildcat Blanco MV/Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) p Sec. 29, T28N, R4W API # 30-039-30377	
14. Distance in Miles from Nearest Town 47 mile/Bloomfield	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 845'	17. Acres Assigned to Well MV/DK 320 (E/2) mbl 320 (SE/4) APPLICANT'S REQUEST FOR THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS	
16. Acres in Lease 1280	20. Rotary or Cable Tools Rotary	
18. Distance from Proposed Location to Nearest Well, Drig, Compl or Applied for on this Lease 1050' From San Juan 28-4 Unit 5B		
19. Proposed Depth 8784' TVD/8999' TMD		
21. Elevations (DF, FT, GR, Etc.) 7387' GL	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Rhonda Rogers</u> Rhonda Rogers (Regulatory Technician)	9-25-07 Date	

PERMIT NO.

APPROVAL DATE

APPROVED BY [Signature]

TITLE AFM

DATE 2/25/08

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

Bond Numbers NMB-000015 and NMB-000089

HOLD CIDA FOR Directional Survey

NMOCD

As drilled C-102

FEB 27 2008

AV

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

This action is subject to technical and
procedural review pursuant to 43 CFR 3165.8
and appeal pursuant to 43 CFR 3165.4

NOTIFY AZTEC OGD 24 HRS.
PRIOR TO CASING & CEMENT

District I

1625 N. Francis Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

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

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

SEP 26 2007

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

Bureau of Land Management
Farmington Field Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-30377		² Pool Code 72319/71599	³ Pool Name BLANCO MESAVERDE / BASIN DAKOTA
⁴ Property Code 7459	⁵ Property Name SAN JUAN 28-4 UNIT		⁶ Well Number 37M
⁷ OGRUD No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP		⁹ Elevation 7387

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
P	29	28-N	4-W		598	SOUTH	845	EAST	RIO ARriba

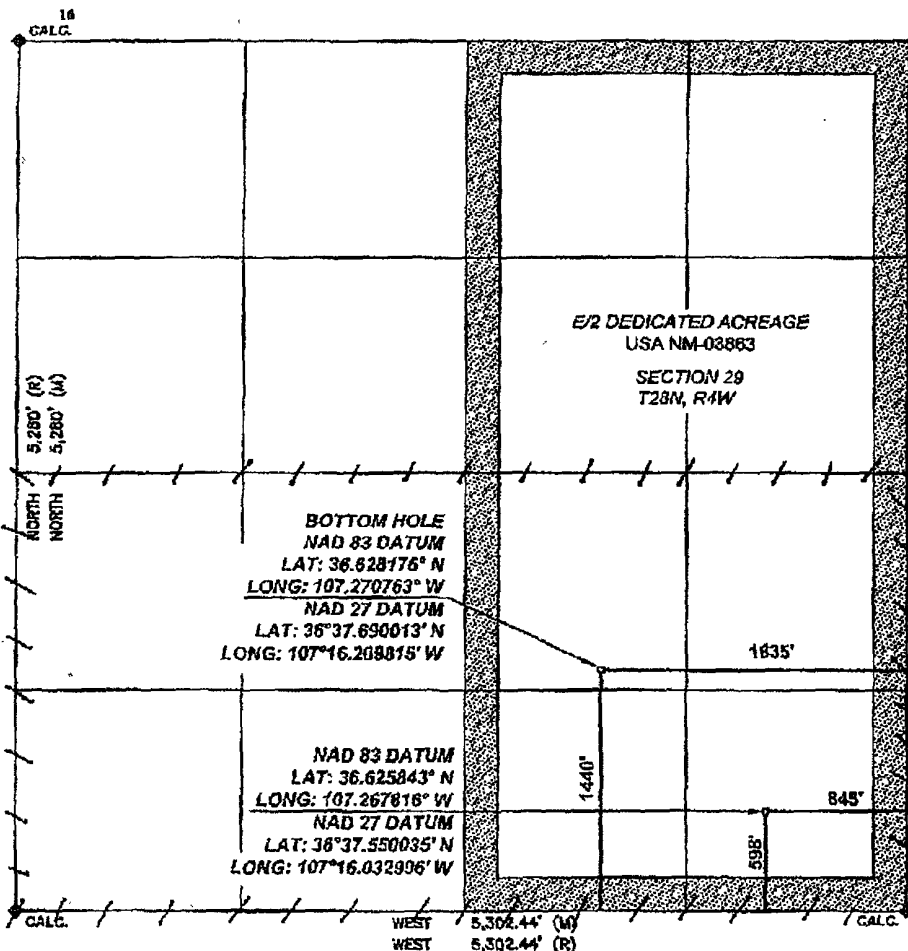
11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	29	28-N	4-W		1440	SOUTH	1835	EAST	RIO ARriba

¹² Dedicated Acres DK 320 IE/2	¹³ Joint or Jafill	¹⁴ Consolidation Code	¹⁵ Order No.
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HV 320 S/2

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 an undivided 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.

Kandis Roland
Signature

Kandis Roland
Printed Name

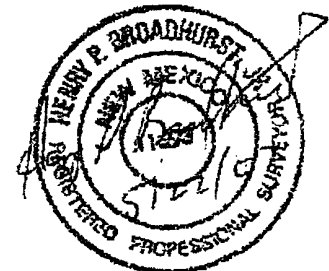
Regulatory Technician
Title and E-mail Address

6/21/07
Date

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of certain 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: 6/20/06
Signature and Seal of Professional Surveyor:



Certificate Number: NM 11383

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1301 W. Grand Ave., Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

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

Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO.

30-039-30377

5. Indicate Type of Lease

STATE ☐FEE ☐

6. State Oil & Gas Lease No.

Federal Lease #USA NM-03863

7. Lease Name or Unit Agreement Name

San Juan 28-4 Unit

8. Well Number

#37M

9. OGRID Number

14538

10. Pool name or Wildcat

Blanco MV/Basin DK

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH
PROPOSALS)

1. Type of Well:

Oil Well ☐Gas Well ☒

Other

2. Name of Operator

BURLINGTON RESOURCES OIL & GAS COMPANY LP

3. Address of Operator

3401 E. 30TH STREET, FARMINGTON, NM 87402

4. Well Location

Unit Letter P : 598' feet from the South line and 845' feet from the East line
Section 29 Township 28N Rng 4W NMPM County Rio Arriba

11. Elevation (Show whether DR, RKB, RT, GR, etc.)

7387'

Pit or Below-grade Tank Application

☐ or Closure ☐Pit type New Drill

Depth to Groundwater

<100

Distance from nearest fresh water well

>1000

Distance from nearest surface water

>1000

Pit Liner Thickness:

12

mil

Below-Grade Tank:

Volume

bbls;

Construction Material

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐PLUG AND ABANDON ☐TEMPORARILY ABANDON ☐CHANGE PLANS ☐PULL OR ALTER CASING ☐MULTIPLE COMPL ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ALTERING CASING ☐COMMENCE DRILLING OPNS. ☐P AND A ☐CASING/CEMENT JOB ☐

OTHER:

New Drill ☒OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

New Drill, Lined:

Burlington Resources proposes to construct a new drilling pit, an associated vent/flare pit and a pre-set mud pit (if required). Based on Burlington's interpretation of the Ecosphere's risk ranking criteria, the new drilling pit and pre-set mud pit will be lined pits as detailed in Burlington's Revised Drilling / Workover Pit Construction / Operation Procedures dated November 11, 2004 on file at the NMOCD office. A portion of the vent/flare pit will be designed to manage fluids and that portion will be lined as per the risk ranking criteria. Burlington Resources anticipates closing these pits according to the Drilling / Workover Pit Closure Procedure dated August 2, 2004 on file at the NMOCD office

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☒ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE

TITLE

Regulatory Technician

DATE

9-25-07

Type or print name

Rhonda Rogers

E-mail address:

rogerrs@conocophillips.com

Telephone No.

505-599-4018

For State Use Only

APPROVED BY

TITLE

Deputy Oil & Gas Inspector,
District #3

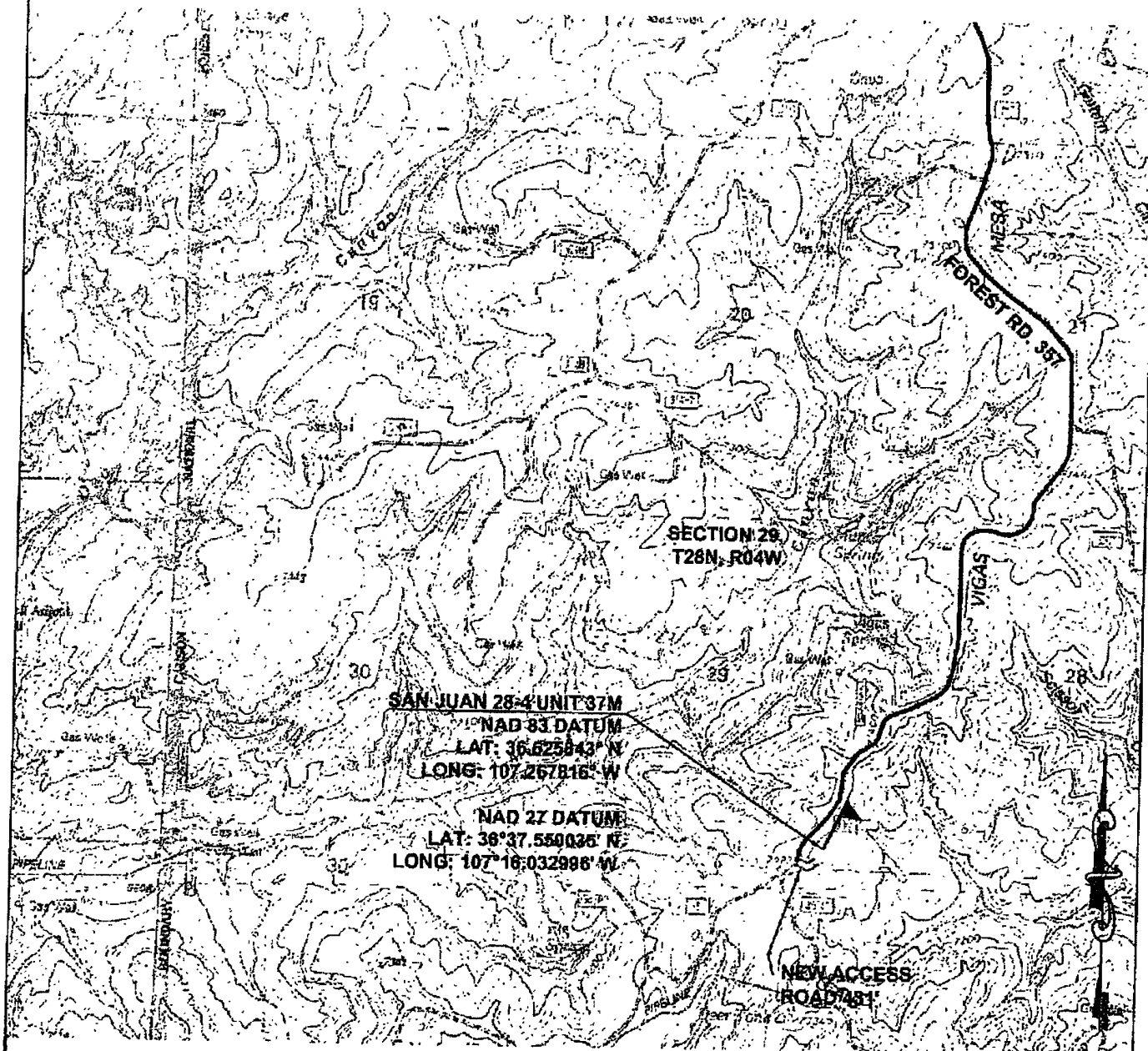
DATE

FEB 27 2008

Conditions of Approval (if any):

BURLINGTON RESOURCES OIL & GAS COMPANY LP

SAN JUAN 28-4 UNIT 37M
 598' FSL, 845' FEL
 SECTION 29, T28N, R04W, N.M.P.M.,
 RIO ARriba COUNTY, NEW MEXICO
 ELEV.: 7387 NAVD88
 NEW ACCESS ROAD 431'



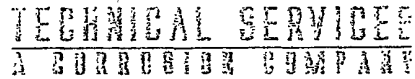
NOTE:

REVISIONS			
NO.	DESCRIPTION	REVISED BY	DATE
1	ISSUE FOR REVIEW	L.H.	6/20/05

CCI

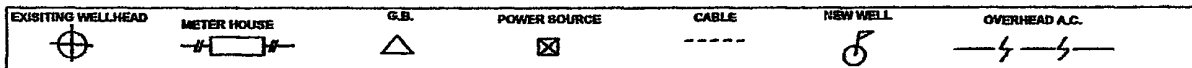
P.O. BOX 328
 BLOOMFIELD, NM, 87413
 PHONE: (505) 325-7707

CHENAULT CONSULTING INC.



WELL NAME S.J. 28-4 # 37 LEGALS P-29-28-4 COUNTY Rio Arriba

PURPOSED C.P. SYSTEEM: Trench approx. 500' of #8 neg. cable from solar at proposed well S.J. 28-4 #3 (N) (on the same well pad) along southeast edge of locatn. to well head



COMMENTS: Drill 6.B and 2-well solar @ south corner of location drilled first.
 Purpose: ST. 28-4 # 360N or S.J. 28-4 # 360N / Set solar in forest areas

NEAREST POWER SOURCE _____ DISTANCE: _____
PIPELINES IN AREA: _____

TECHNICIAN: Michael H. Jones DATE: 9/26/06

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

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 28-4 UNIT 37M

DEVELOPMENT

Lease:		AFE #: WAN.ZA2.7054/7055MV				AFE \$:	
Field Name: hBR_SAN JUAN 28-4 UNIT		Rig: Aztec Rig 777		State: NM	County: RIO ARRIBA	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						
R20002	MESAVERDE(R20002)						
R20076	DAKOTA(R20076)						
Location: Surface Datum Code: NAD 27 Deviated							
Latitude: 36.625822	Longitude: -107.267253	X: 666111.20	Y: 2047540.10	Section: 29	Range: 004W		
Footage X: 845 FEL	Footage Y: 598 FSL	Elevation: 7387	(FT)	Township: 028N			
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27 Deviated							
Latitude: 36.628167	Longitude: -107.270164	X: 665252.00	Y: 2048388.90	Section: 29	Range: 4		
Footage X: 1835 FEL	Footage Y: 1440 FSL	Elevation:	(FT)	Township: 28			
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2008		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 7399 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
SURFACE CSG	216	7183	☐			12-1/4" hole, 9-5/8" 32.3 ppf, H-40, STC casing. Cement w/ 203 cuft. Circulated Cmt to surface.	
OJO ALAMO	3766	3633	☐			Well is directional an don strike with San Juan 28-4 36N	
KIRTLAND	3888	3511	☐			Surface twin with #36N.	
FRUITLAND	3955	3444	☐				
PICTURED CLIFFS	4346	3053	☐				
LEWIS	4506	2893	☐				
Intermediate Casing	4606	2793	☐			8 3/4" hole. 7" 20/23 ppf J-55, STC casing. Circulate cement to surface. Cement with 1076 cu.ft	
HUERFANITO BENTONITE	4941	2458	☐				
CHACRA	5306	2093	☐				
UPPER CLIFF HOUSE	5918	1481	☐				
MASSIVE CLIFF HOUSE	6121	1278	☐	599			
MENEFEE	6186	1213	☐				
MASSIVE POINT LOOKOUT	6508	891	☐				
MANCOS	7059	340	☐				
UPPER GALLUP	7685	-286	☐				
GREENHORN	8459	-1060	☐				
GRANEROS	8516	-1117	☐				
TWO WELLS	8579	-1180	☐	1600			
UPPER CUBERO	8659	-1260	☐			BHL reach ~ 1345'.	
LOWER CUBERO	8709	-1310	☐			Azimuth ~ 315 degrees.	
OAK CANYON	8764	-1365	☐			Same TVD as 28-4 37N vertical.	
ENCINAL	8784	-1385	☐			Estimated bottom perf 8759 TVD.	

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 28-4 UNIT 37M

DEVELOPMENT

Total Depth	8784	-1385	☐	6-1/4" Hole. 4-1/2", 10.5/11.6 ppf, J-55 STC/LTC casing. Cement with 569 cuft. Circulate cement a minimum of 100' inside the previous casing string.
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Reference Wells:		
Reference Type	Well Name	Comments
Intermediate	SJ 28-4 5B	NWNE32-28-4
Intermediate	SJ 28-4 32	NE32-28-4
Intermediate	SJ 28-4 36	SW29-28-4

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

TD Logs:	☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other
Mudlog from 200' above Greenhorn to TD.	

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

Comments: Location/Tops/Logging - MVNM028N004W29SE2 AND DK 28N04W29SE2, MUDLOG 100' above GRHN to TD

Zones - MVNM028N004W29SE2 AND DK 28N04W29SE2

General/Work Description - NO LEWIS-2/23/07 name changed from San Juan 28-4 Unit 36M per Land & Reg (wfp)

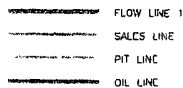
ConocoPhillips or its affiliates Survey Report

Company:	ConocoPhillips Lower 48	Local Co-ordinate Reference:	Well SJ-28-4 #37M
Project:	San Juan Basin	TVD Reference:	WELL @ 7402.0ft (Original Well Elev)
Site:	Monty's Site for directional MV/DK wells	MD Reference:	WELL @ 7402.0ft (Original Well Elev)
Well:	SJ 28-4 #37M	North Reference:	True
Wellbore:	SJ 28-4 #37M	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM Central Planning

Targets									
Target Name - hit/miss target - Shape	Dip Angle (d)	Dip Dir (d)	TVD (ft)	+N/-S ft	+E/-W ft	Northing (m)	Easting (m)	Latitude	Longitude
SJ 28-4 #37M - PCP - plan hits target - Point	0.00	0.00	8,784.0	842.0	-990.0	261.00	-298.10	30° 59' 32.846" N	109° 25' 55.467" W
SJ 28-4 #37M - ICP - plan hits target - Point	0.00	0.00	4,606.0	842.0	-990.0	261.00	-298.10	30° 59' 32.846" N	109° 25' 55.467" W

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (d)	Dip Direction (d)
3,955.4	3,766.0	Ojo Alamo		0.00	
4,085.2	3,888.0	Kirtland		0.00	
4,156.4	3,955.0	Fruitland		0.00	
4,559.9	4,346.0	Pictured Cliffs		0.00	
4,720.7	4,506.0	Lewis		0.00	
5,155.8	4,941.0	Huerf. Bent.		0.00	
5,520.8	5,306.0	Chacra		0.00	
6,132.8	5,918.0	Upper Cliffhouse		0.00	
6,335.8	6,121.0	Mass. Cliffhouse		0.00	
6,400.8	6,186.0	Menefee		0.00	
6,722.8	6,508.0	Pt. Lookout		0.00	
7,273.8	7,059.0	Mancos Shale		0.00	
7,899.8	7,685.0	Gallup		0.00	
8,673.8	8,459.0	Greenhorn		0.00	
8,730.8	8,516.0	Graneros		0.00	
8,793.8	8,579.0	Two Wells		0.00	
8,873.8	8,659.0	Upper Cubero		0.00	
8,923.8	8,709.0	Lower Cubero		0.00	
8,978.8	8,764.0	Oak Canyon		0.00	
8,998.8	8,784.0	TD		0.00	
8,998.8	8,784.0	Encinal		0.00	

Checked By: _____	Approved By: _____	Date: _____
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SHEET 1 OF 3

Address: J:\SP2\DCM\Amree\Regulatory\Fin Location Site Layout\mp. 06/23/2007 - 02:09pm

SAN JUAN 28-4 UNIT 37M

598' F9L 845' FEL

**SECTION 29, T28N, R04W, N.M.P.M.,
RIO ARriba COUNTY, NEW MEXICO**

GROUND ELEV.: 7387 NAVD88

DATE: JUNE 20, 2006

NEW ACCESS ROAD 431'



P.O. BOX 328
BUONAFIELD, PA., 87413
PHONE: (505) 325-7707

PIT CROSS SECTION

NAD 83 LAT.: 36.625843° N LONG.: 107.267816° W

330' x 400' = 3.03 ACRES

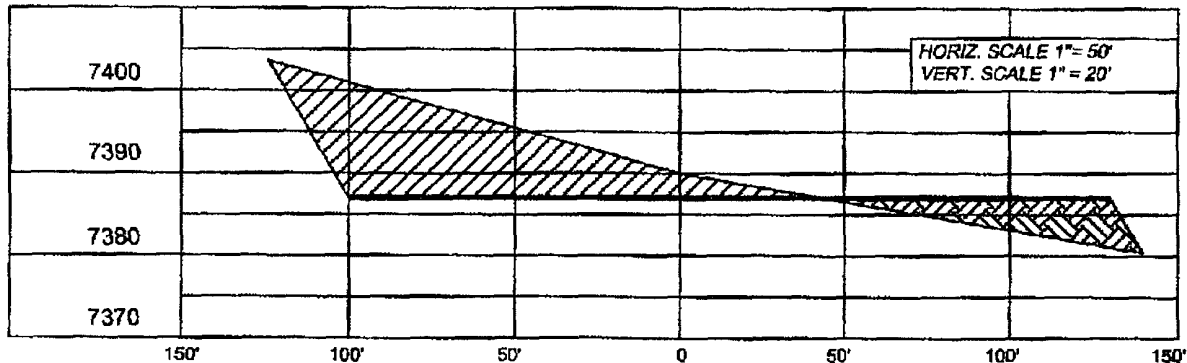
1. RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW-3' WIDE AND 1' ABOVE SHALLOW SIDE).
2. C.C.I. SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

BURLINGTON RESOURCES OIL & GAS COMPANY LP

SAN JUAN 28-4 UNIT 37M
598' FSL, 845' FEL
SECTION 29, T28N, R04W, N.M.P.M.,
RIO ARriba COUNTY, NEW MEXICO
ELEV.: 7387 NAVD88

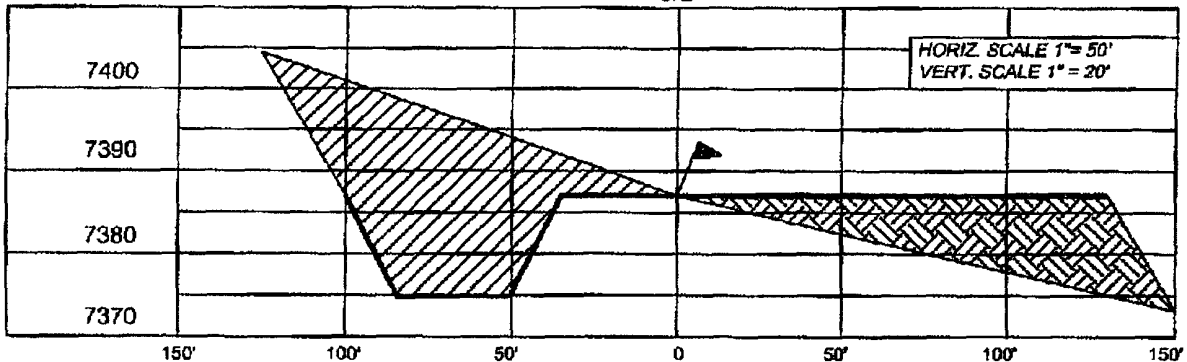
A - A'

C/L



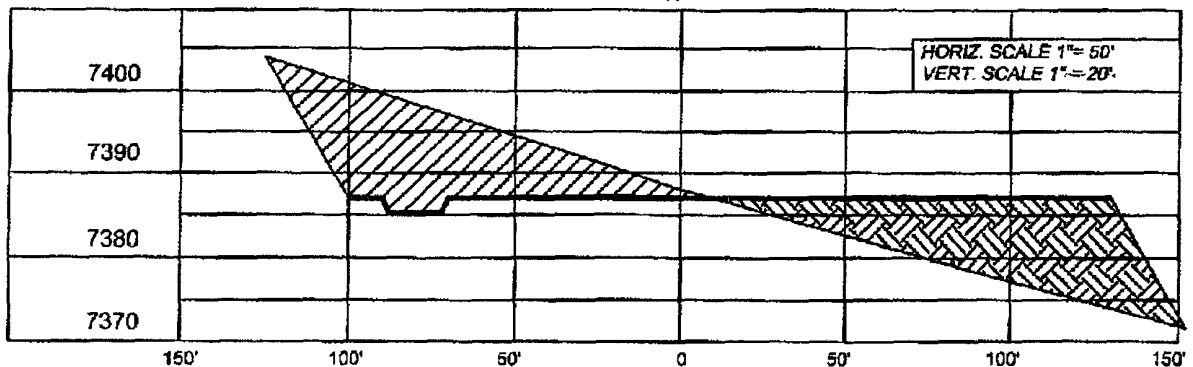
B - B'

C/L



C - C'

C/L



NOTE: CCI IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.

CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD PRIOR TO CONSTRUCTION.

REVISIONS			
NO.	DESCRIPTION	REVISED BY	DATE
1	ISSUE FOR REVIEW	L.H.	8/20/06

CCI

CHENAULT CONSULTING INC.

P.O. BOX 328
BLOOMFIELD, NM, 87413
PHONE: (505) 325-1707