

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	<b>RECEIVED</b> SEP 19 2007 Bureau of Land Management Farmington Field Office	5. Lease Number USA NM-03863
1b. Type of Well GAS		6. If Indian, All. or Tribe NMNM-78401A-MV NMNM-78401C-DL
2. Operator <b>BURLINGTON</b> 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 #37N	
4. Location of Well Surf: Unit P (SESE), 554' FSL & 872' FEL  Surf: Latitude 36° 37.542595 N Longitude 107° 16.038816 W	10. Field, Pool, Wildcat Blanco MV/Basin DK  11. Sec., Twn, Rge, Mer. (NMPM) 0 Sec. 29, T28N, R4W  API # 30-039-30361	
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 554'	17. Acres Assigned to Well 320 (E/2) DK 320 (S2) MV	
16. Acres in Lease 1280	18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease	
19. Proposed Depth 8786'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 7387' GL	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached	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	
24. Authorized by: <i>Rhonda Rogers</i> Rhonda Rogers (Regulatory Technician)	Date 2/25/08	

PERMIT NO.

APPROVAL DATE

APPROVED BY *J. Manke*

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

NMOCD

FEB 27 2008

AV

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

District I  
1625 N. French 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

Fee Lease - 3 Copies  
State Lease - 7 Copies  
Submit to Appropriate District Office  
Revised June 10, 2003  
Form C-102

Bureau of Land Management  
Farmington Field Office ☐ AMENDED REPORT

### WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-039-30361	<sup>2</sup> Pool Code 72319/71599	BLANCO MESAVERDE/ <sup>3</sup> Pool Name BASIN DAKOTA
<sup>4</sup> Property Code 7459	<sup>5</sup> Property Name SAN JUAN 28-4	
<sup>7</sup> OGRID No. 14538	<sup>8</sup> Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP	<sup>6</sup> Well N-100 37W <sup>9</sup> Elevation 7,387.0'

#### <sup>10</sup> SURFACE LOCATION

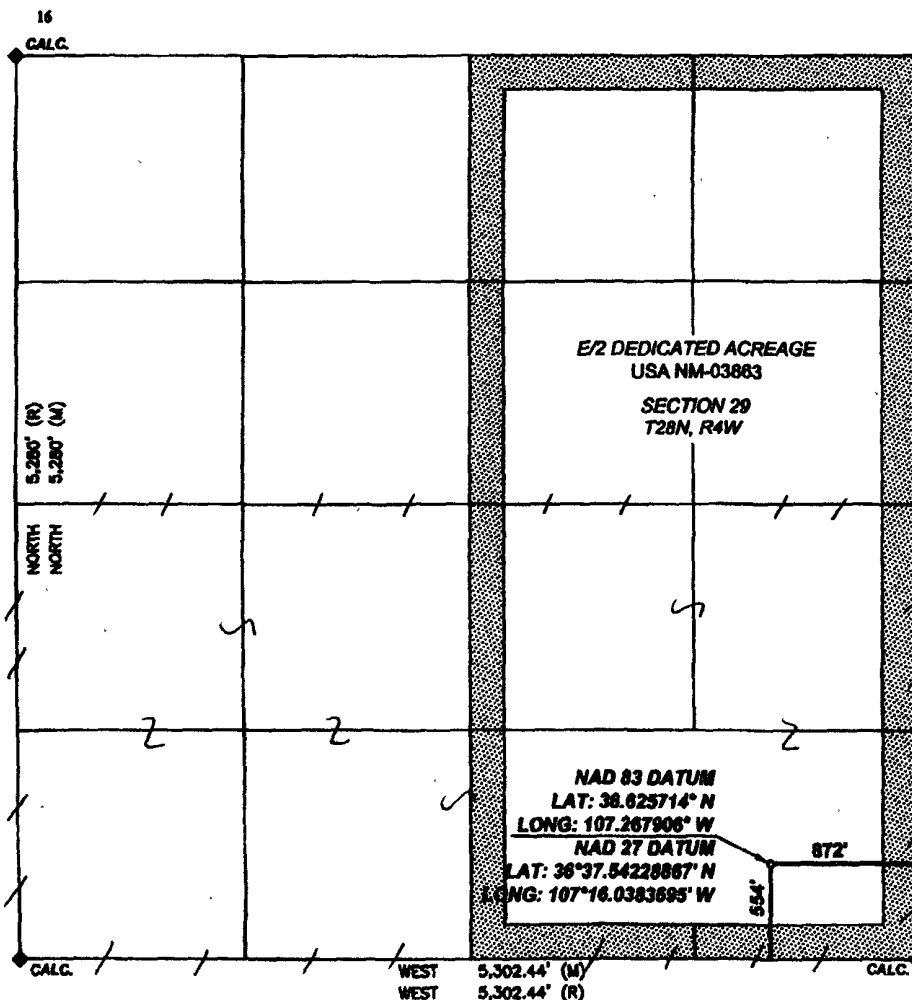
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	29	28-N	4-W		554	SOUTH	872	EAST	RIO ARRIBA

#### <sup>11</sup> 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
P									

<sup>12</sup> Dedicated Acres DK-320 E2	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
--	-------------------------------	----------------------------------	-------------------------

MV-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



<sup>17</sup> 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  
Patsy Clugston

Printed Name  
Sr. Regulatory Specialist

Title and E-mail Address  
September 15 2006

Date

<sup>18</sup> 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: 8/20/08  
Signature and Seal of Professional Surveyor:

HENRY P. BROADHURST  
NEW MEXICO  
REGISTERED PROFESSIONAL SURVEYOR  
10930  
8/21/08

Certificate Number: NM 11393

**District I**

1625 N. French 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

Fee Lease - 3 Copies

State Lease - 7 Copies

Submit to Appropriate District Office

Revised June 10, 2003

Form C-102

SEP 19 2007

Bureau of Land Management ☐ AMENDED REPORT  
Farmington Field Office

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

<sup>1</sup> API Number 30-039-30361	<sup>2</sup> Pool Code 72319/71599	<sup>3</sup> Pool Name BLANCO MESAVERDE/ BASIN DAKOTA
<sup>4</sup> Property Code 7459	<sup>5</sup> Property Name SAN JUAN 28-4	<sup>6</sup> Well Number 37N
<sup>7</sup> OGRID No. 14538	<sup>8</sup> Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP	<sup>9</sup> Elevation 7,387.0'

**10 SURFACE LOCATION**

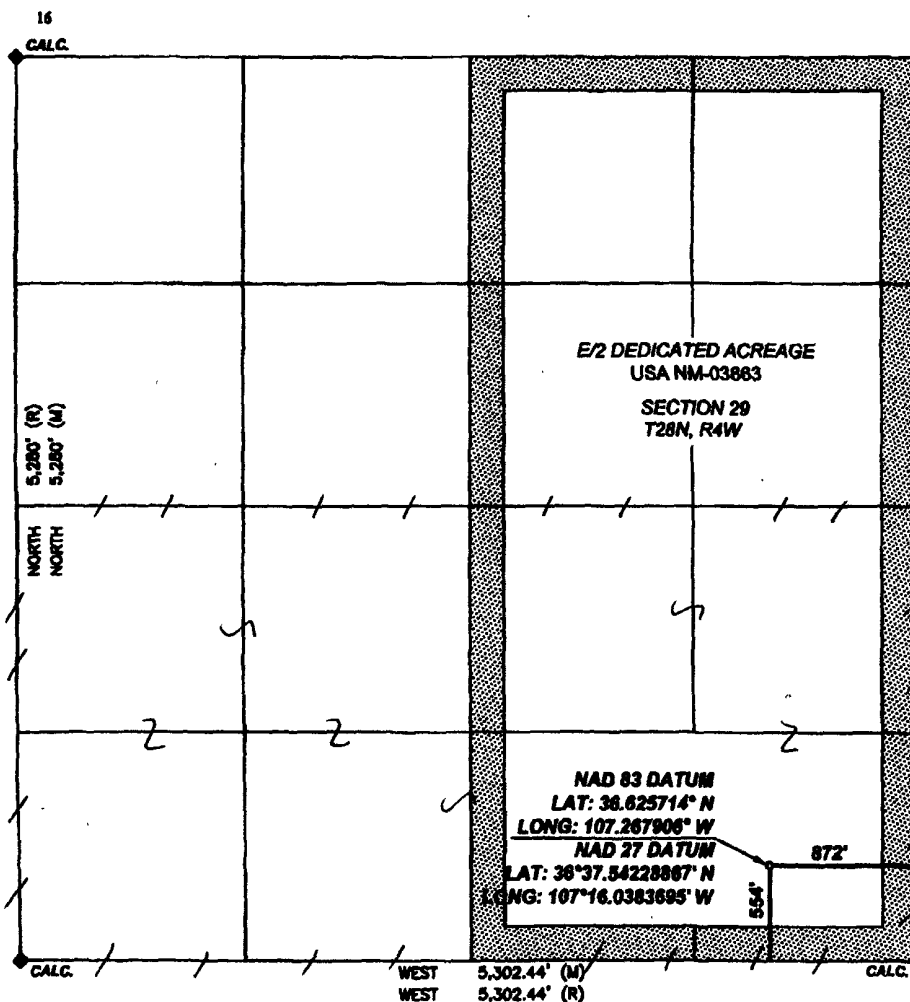
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	29	28-N	4-W		554	SOUTH	872	EAST	RIO ARRIBA

**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
P									

<sup>12</sup> Dedicated Acres DK - 320 E2	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
--	-------------------------------	----------------------------------	-------------------------

MV-320 5/2 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 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

Patsy Clugston

Printed Name

Sr. Regulatory Specialist

Title and E-mail Address

September 15 2006

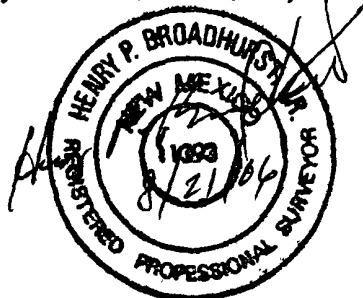
Date

**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: 6/20/06

Signature and Seal of Professional Surveyor:



Certificate Number: NM 11393

Office

Energy, Minerals and Natural Resources

District I

1625 N French Dr, Hobbs, NM 88240

District II

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

## OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

WELL API NO.

30-039- 30341

5. Indicate Type of Lease

STATE ☐FEE ☐

6. State Oil &amp; Gas Lease No.

Federal Lease #USA NM-03863

7. Lease Name or Unit Agreement Name

San Juan 28-4 Unit

8. Well Number

#37N

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 &amp; GAS COMPANY LP

3. Address of Operator

3401 E. 30TH STREET, FARMINGTON, NM 87402

4. Well Location

Unit Letter P : 554' feet from the South line and 872' 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

&gt;100

Distance from nearest fresh water well

&gt;1000

Distance from nearest surface water

&gt;1000

Pit Liner Thickness:

NA

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

TEMPORARILY ABANDON

PULL OR ALTER CASING

PLUG AND ABANDON

CHANGE PLANS

MULTIPLE COMPL

OTHER:

New Drill

☒

## SUBSEQUENT REPORT OF:

REMEDIAL WORK

COMMENCE DRILLING OPNS.

CASING/CEMENT JOB

ALTERING CASING

P AND A

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, ~~un~~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, vent/flare pit and pre-set mud pit will be unlined 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 unlined, 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

9-13-07

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

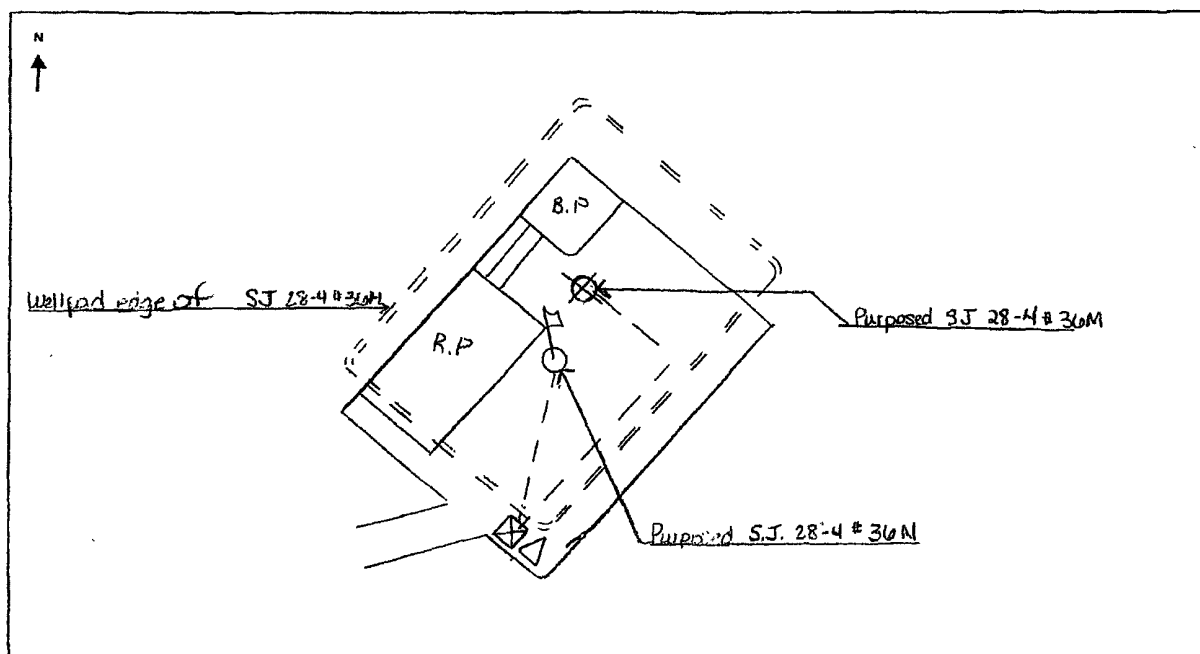
Conditions of Approval (if any):



## CATHODIC PROTECTION PLAN FOR NEW WELLS

WELL NAME SJ 28-4 # <sup>37</sup>36N LEGALS P-29-28-4 COUNTY Rio Arriba

PURPOSED C.P. SYSTEM: Drill G.B. and set 2-well solar @ the South corner of location  
Trench approx. 250' of #8 neg. cable from solar to well head.



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

COMMENTS: Put G.B. and 2-well solar on south corner of location drilled first. Purposed  
SJ 28-4 # 36N or SJ. 28-4 # 36M / set solars in forest areas

NEAREST POWER SOURCE \_\_\_\_\_ DISTANCE: \_\_\_\_\_  
 PIPELINES IN AREA: \_\_\_\_\_

TECHNICIAN: Michael J. Morgan 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 37N

DEVELOPMENT

Lease:		AFE #: WAN.ZA2.6956/6951DK		AFE \$:	
Field Name: hBR_SAN JUAN 28-4 UNIT		Rig: Aztec Rig 301		State: NM	County: RIO ARriba
Geologist:		Phone:		Geophysicist:	
Geoscientist: Head, Chip F		Phone: 505-326-9772		Prod. Engineer:	
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		Straight Hole	
Latitude: 36.625705	Longitude: -107.267307	X:	Y:	Section: 29	Range: 004W
Footage X: 872 FEL	Footage Y: 554 FSL	Elevation: 7387	(FT)	Township: 028N	
Tolerance:					

Location Type: Restricted	Start Date (Est.): 1/1/2008	Completion Date:	Date In Operation:
Formation Data: Assume KB = 7401 Units = FT			

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
SURFACE CSG	216	7185	<input type="checkbox"/>			12-1/4" Hole. 9-5/8", 32.3 ppf, H-40, STC casing. Cement with 171 cu. ft. Circulate cement to surface.
OJAM	3768	3633	<input type="checkbox"/>			Possible water flows.
KRLD	3890	3511	<input type="checkbox"/>			
FRLD	3957	3444	<input type="checkbox"/>			Possible gas.
PCCF	4348	3053	<input type="checkbox"/>			
LEWS	4508	2893	<input type="checkbox"/>			
Intermediate Casing	4608	2793	<input type="checkbox"/>			8-3/4" Hole. 7", 20/23 ppf, J-55, STC casing. Cement with 1037 cu. ft. Circulate cement to surface.
HURF	4943	2458	<input type="checkbox"/>			
CHRA	5308	2093	<input type="checkbox"/>			
UCLFH	5920	1481	<input type="checkbox"/>			
CLFH	6123	1278	<input type="checkbox"/>	599		Gas; possibly wet
MENF	6188	1213	<input type="checkbox"/>			Gas.
PTLK	6510	891	<input type="checkbox"/>			Gas.
MNCS	7061	340	<input type="checkbox"/>			
GLLP	7687	-286	<input type="checkbox"/>			Gas. Possibly wet.
GRHN	8461	-1060	<input type="checkbox"/>			Gas possible, highly fractured
GRRS	8518	-1117	<input type="checkbox"/>			
TWLS	8581	-1180	<input type="checkbox"/>	1600		Gas
CBBO	8661	-1260	<input type="checkbox"/>			Gas
CBRL	8711	-1310	<input type="checkbox"/>			
OKCN	8766	-1365	<input type="checkbox"/>			
ENCINAL	8786	-1385	<input type="checkbox"/>			
TD	8786	-1385	<input type="checkbox"/>			TD T/ENCN. 6-1/4" hole. 4-1/2", 10.5 ppf, J-55, STC casing. Cement with 569 cu. ft. Circulate cement a minimum of 100' inside the previous casing string.

Reference Wells:		
Reference Type	Well Name	Comments

# PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 28-4 UNIT 37N

DEVELOPMENT

Production	28-4 #5B	NWNE 32-28N-4W
Production	28-4 #32	NE 32-28N-4W
Production	28-4 #36	SW 29-28N-4W

## Logging Program:

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

TD Logs: ☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other

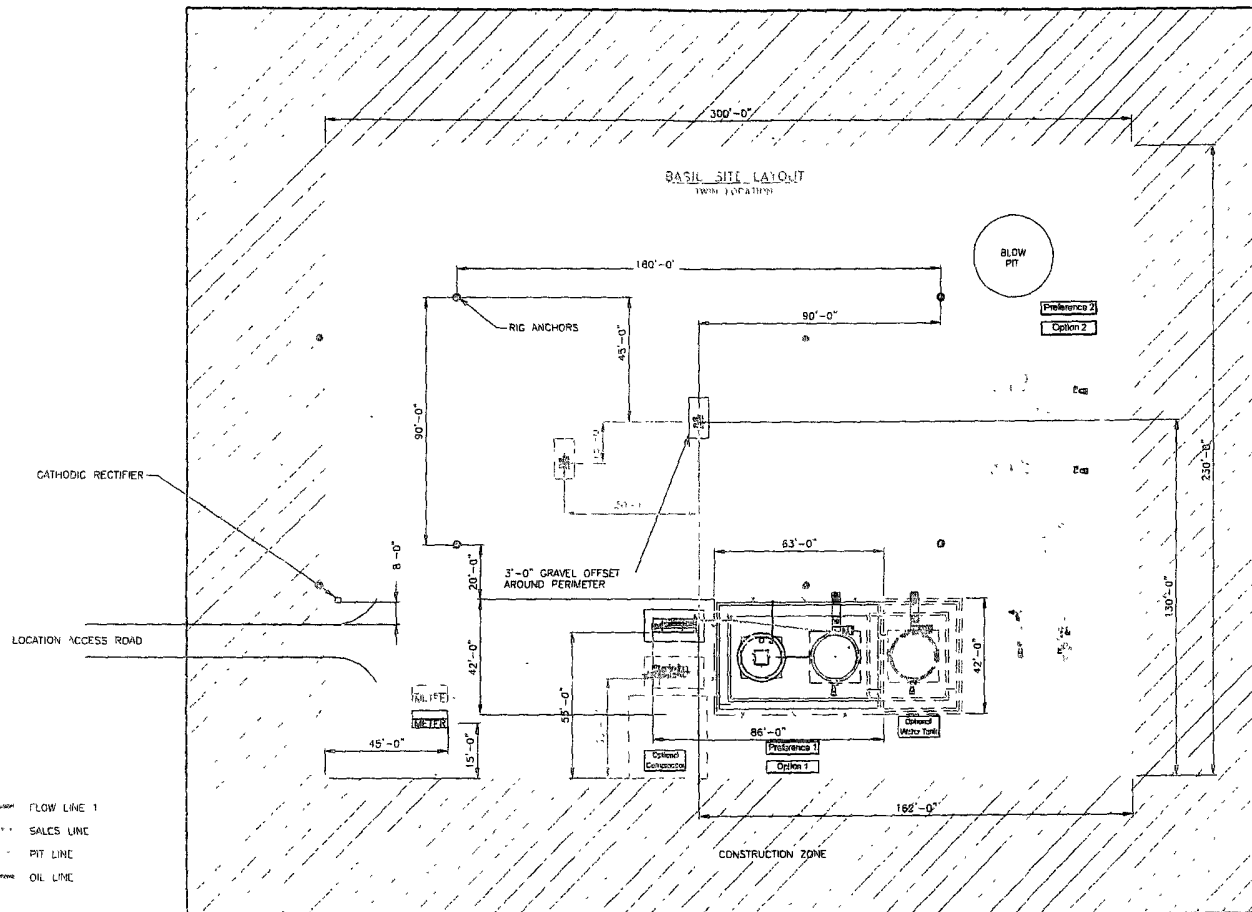
GR\_CBL

## Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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Comments: Location/Tops/Logging - MVNM028N004W29SE1 and DK 28N04W29SE1

Zones - MVNM028N004W29SE1 and DK 28N04W29SE1



SEE SHEET 3 & 4 FOR PIPING DETAILS  
ALL UNDERGROUND PIPING IS TO BE BURIED A MIN OF 3'-0" TOP

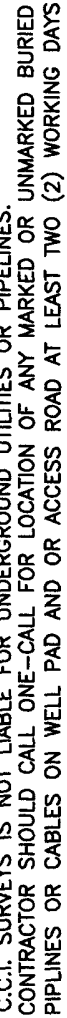
SHEET 1 OF 5

										ENGINEERING REVIEW			REFERENCE DRAWINGS		<div>CONOCOPhillips</div> <div>SAN JUAN BUSINESS UNIT</div>		CONOCOPhillips HIGH PRESSURE 3 PHASE FACILITY DIAGRAM- SITE LAYOUT				
										DESCRIPTION	REVIEWED	DATE	NO	DESCRIPTION			CLIENT Tm	CLIENT APPR	APPR DATE		
										PROCESS											
										MECHANICAL											
										PIPING											
										ELECTRICAL											
										I & C											
										CIVIL/STRUCTURAL											
										PROJECT											
REVISION										DATE	BY	CHK'D	ENG	QSC	REV						
															SAN JUAN BUSINESS UNIT		CLIENT Tm	CLIENT APPR	APPR DATE	SHEET No	
																	ORIGIN: BY	SCALE: AS SHOWN	DATE: 6/28/97	1 OF 5	
																	DATE: 6/28/97	SCALE: AS SHOWN	DATE: 6/28/97	1 OF 5	

Project: San Juan Business Unit Facility Diagram- Site Layout.dwg 06/28/97 03:56



450' OVERALL EDGE OF DISTURBANCE



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

NAD 83 LAT.: 36.625719° N LONG.: 107.267913° W

**450' x 345' = 3.564 ACRES**

# BURLINGTON RESOURCES OIL & GAS COMPANY LP

SAN JUAN 28-4 UNIT 37N

554' FSL, 872' FEL

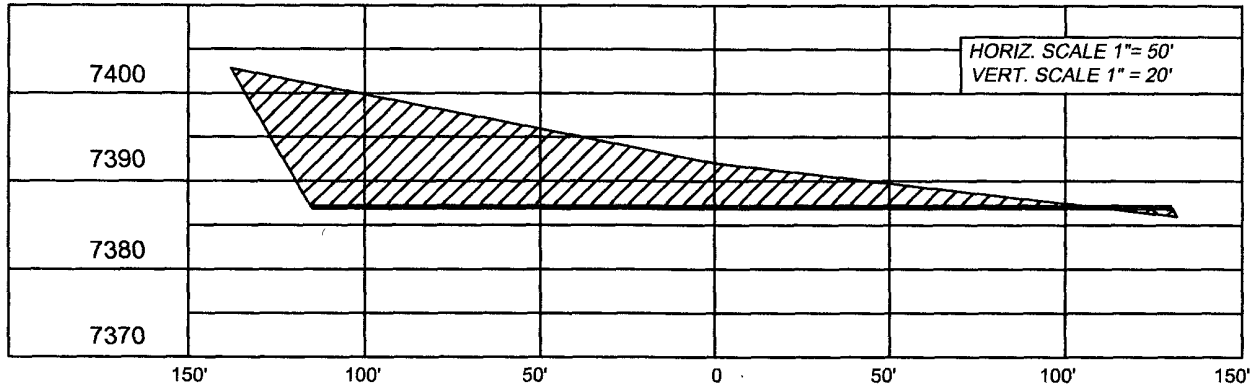
SECTION 29, T28N, R04W, N.M.P.M.,

RIO ARriba COUNTY, NEW MEXICO

ELEV.: 7387 NAVD88

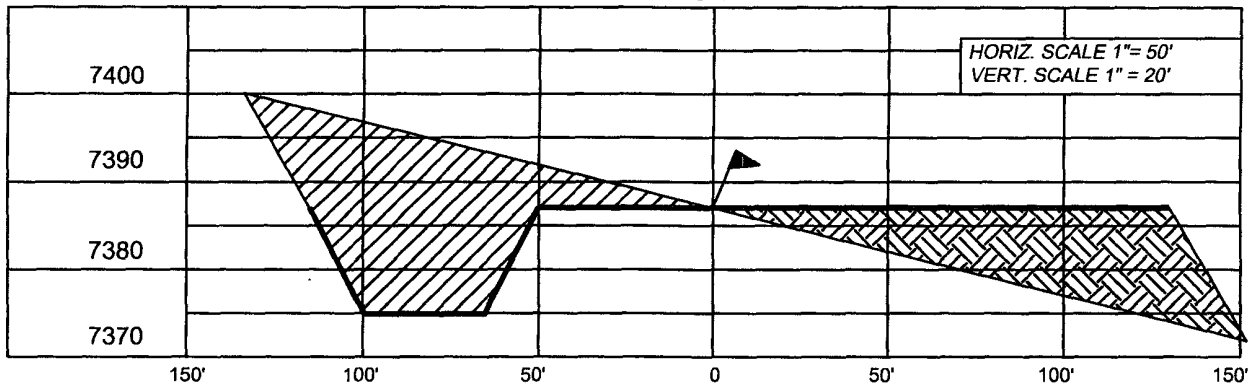
A - A'

C/L



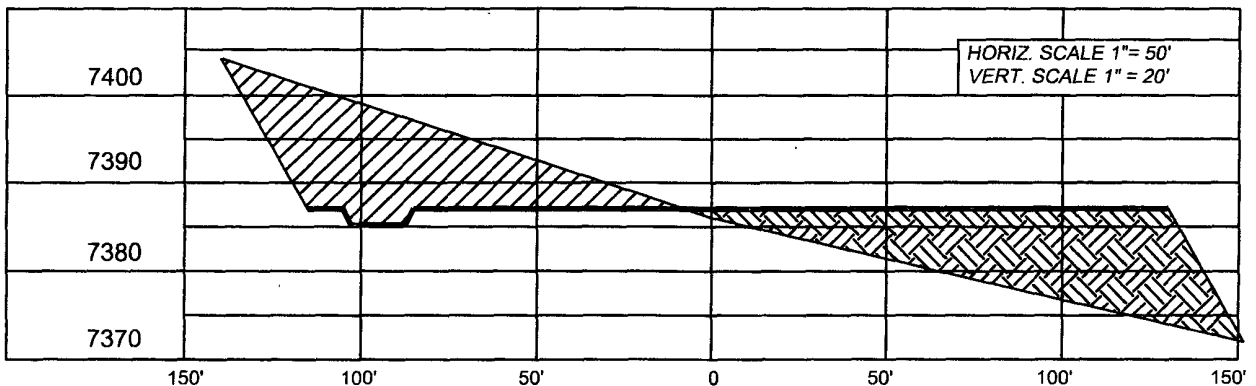
B - B'

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	TJR	6/20/06

**CCI**

**CHENAULT CONSULTING INC.**

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