

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RCVD APR 2 '08  
OIL CONS. DIV.  
DIST. 3

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

**RECEIVED**  
SEP 07 2007  
Bureau of Land Management  
Farmington Field Office

1a. Type of Work **DRILL** 5. Lease Number  
USA SF-080668  
Unit Reporting Number  
**NMNM-78408A-MV NMNM-78408B-DK**

1b. Type of Well **GAS** 6. If Indian, All. or Tribe

2. Operator **BURLINGTON RESOURCES Oil & Gas Company, LP** 7. Unit Agreement Name  
**San Juan 27-4 Unit**

3. Address & Phone No. of Operator 8. Farm or Lease Name  
PO Box 4289, Farmington, NM 87499  
(505) 326-9700 9. Well Number  
**#70P**

4. Location of Well 10. Field, Pool, Wildcat  
Surf: Unit L(NWSW), 1516' FSL & 1124' FWL Blanco MV/Basin DK  
BH: Unit N(SESW), 1225' FSL & 2315' FWL  
Surf: Latitude 36° 35.932770 N  
Longitude 107° 15.630717 W  
BH: Latitude 36° 35.893762 N  
Longitude 107° 15.408017 W 11. Sec., Twn, Rge, Mer. (NMPM)  
L Sec. 4, T27N, R4W  
API # 30-039-30352

14. Distance in Miles from Nearest Town 12. County 13. State  
49 mile/Bloomfield Rio Arriba NM

15. Distance from Proposed Location to Nearest Property or Lease Line  
1124'

16. Acres in Lease 17. Acres Assigned to Well  
**25 57.800** MV/DK 319.2 (W/2)

18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease

19. Proposed Depth 20. Rotary or Cable Tools  
8511' TVD/8718' TMD Rotary

21. Elevations (DF, FT, GR, Etc.) 22. Approx. Date Work will Start  
7171' GL

23. Proposed Casing and Cementing Program  
See Operations Plan attached

24. Authorized by: Rhonda Rogers 9-6-07  
Rhonda Rogers (Regulatory Technician) Date

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
APPROVED BY [Signature] TITLE ATM DATE 4/6/08

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  
MOTIFY AZTEC OCD 24 HRS.  
PRIOR TO CASING & CEMENT

HOLD C104 FOR Change in status to 274 #70 for Basin DK  
Hold C104 for Directional Survey and "As Drilled" plat  
APR 04 2008 AV  
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".

NMOCD

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1900 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

Form C-102  
Revised October 12, 2005  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-039-30352		<sup>2</sup> Pool Code 72319/71599		<sup>3</sup> Pool Name Basin Polanco - MESAVERDE / DAKOTA	
<sup>4</sup> Property Code 7452		<sup>5</sup> Property Name SAN JUAN 27-4 UNIT			<sup>6</sup> Well Number 70P
<sup>7</sup> OGRID No. 14538		<sup>8</sup> Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP			<sup>9</sup> Elevation 7171

<sup>10</sup> SURFACE LOCATION

UL of lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	04	27-N	04-W		1516	SOUTH	1124	WEST	RIO ARRIBA

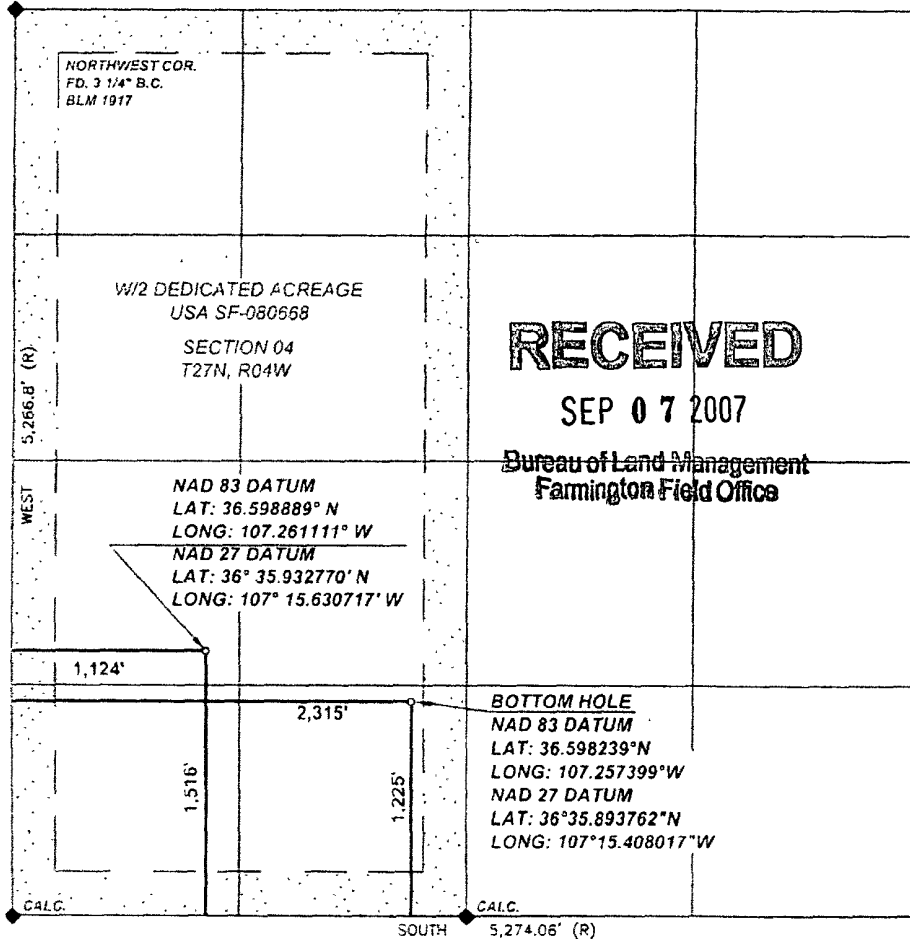
<sup>11</sup> Bottom Hole Location If Different From Surface

UL of lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	04	27-N	04-W		1225	SOUTH	2315	WEST	RIO ARRIBA

<sup>12</sup> Dedicated Acres 319.2 W/2	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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

16



<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.

*Rhonda Rogers*  
Signature  
Rhonda Rogers  
Printed Name  
Regulatory Technician  
Title and E-mail Address  
9/6/07  
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: 11/03/06  
Signature and Seal of Professional Surveyor:  
  
Certificate Number: NM 11393

District I

Energy, Minerals and Natural Resources

May 27, 2004

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Ave., Artesia, NM 88210

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

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

WELL API NO. 30-039- 30352

5. Indicate Type of Lease STATE [ ] FEE [ ]

6. State Oil & Gas Lease No. Federal Lease #USA SF-080668

7. Lease Name or Unit Agreement Name San Juan 27-4 Unit

8. Well Number #70P

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 [X] 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 L : 1516' feet from the South line and 1124' feet from the West line Section 4 Township 27N Rng 4W NMPM County Rio Arriba

11. Elevation (Show whether DR, RKB, RT, GR, etc.) 7171'

Pit or Below-grade Tank Application [ ] or Closure [ ]

Pit type New Drill Depth to Groundwater <50 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 [X] 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 [X] or an (attached) alternative OCD-approved plan [ ].

SIGNATURE Rhonda Rogers TITLE Regulatory Technician DATE 9-6-07

Type or print name Rhonda Rogers E-mail address: rogerr@conocophillips.com Telephone No. 505-599-4018

For State Use Only

APPROVED BY [Signature] TITLE Deputy Oil & Gas Inspector, District #3 DATE APR 04 2008

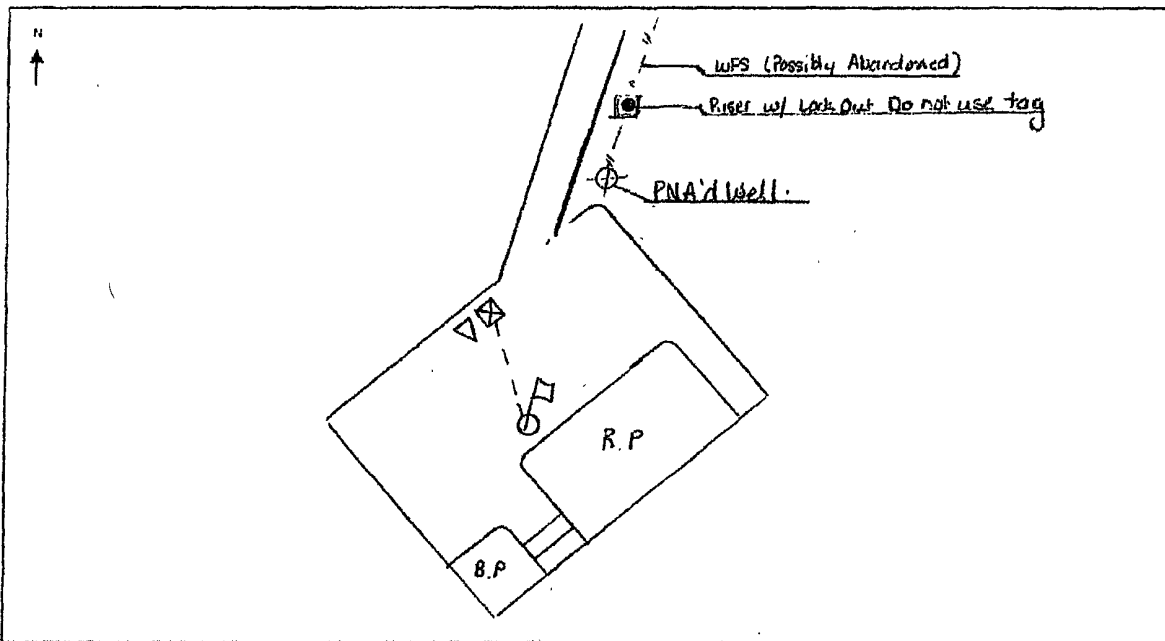
Conditions of Approval (if any):



### CATHODIC PROTECTION PLAN FOR NEW WELLS

WELL NAME SJ 27-4 # 188 70P LEGALS H. 4-27-4 COUNTY Rio Arriba

PURPOSED C.P. SYSYTEM: Drill G.B. and set solar north edge 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: Access road runs alongside PNA'd well. WFS flags marking P/L from PNA to riser w/ do not operate tag and alongside right side of access road and continuing on rt side of

NEAREST POWER SOURCE \_\_\_\_\_ DISTANCE: \_\_\_\_\_

PIPELINES IN AREA: WFS P/L

TECHNICIAN: Michael Hernandez DATE: 9/26/06

# PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-4 UNIT 70P

DEVELOPMENT

Lease:		AFE #: WAN.ZA2.7203			AFE \$:	
Field Name: hBR_SAN JUAN 27-4 UNIT		Rig: Aztec Rig 730		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:
<b>Primary Objective (Zones):</b>						
<b>Zone</b>	<b>Zone Name</b>					
R20002	MESAVERDE(R20002)					
R20076	DAKOTA(R20076)					
<b>Location: Surface Datum Code: NAD 27 Deviated</b>						
Latitude: 36.598879	Longitude: -107.260512	X:	Y:	Section: 04	Range: 004W	
Footage X: 1124 FWL	Footage Y: 1516 FSL	Elevation: 7171	(FT)	Township: 027N		
Tolerance:						
<b>Location: Bottom Hole Datum Code: NAD 27 Deviated</b>						
Latitude: 36.598229	Longitude: -107.256800	X:	Y:	Section: 04	Range: 004W	
Footage X: 2315 FWL	Footage Y: 1225 FSL	Elevation:	(FT)	Township: 027N		
Tolerance:						
Location Type: Restricted		Start Date (Est.): 1/1/2008		Completion Date:		Date In Operation:
Formation Data: Assume KB = 7185 Units = FT						
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
SURFACE CSG	216	6969	<input type="checkbox"/>			12-1/4" hole, 9-5/8" 32.3 ppf, H-40, STC casing. Cement w/ 203 cuft. Circulate Cmt to surface.
OJAM	3447	3738	<input type="checkbox"/>			Possible water flows.
KRLD	3627	3558	<input type="checkbox"/>			
FRLD	3720	3465	<input type="checkbox"/>			Possible gas.
PCCF	4059	3126	<input type="checkbox"/>			
LEWS	4217	2968	<input type="checkbox"/>			
Intermediate Casing	4317	2868	<input type="checkbox"/>			8 3/4" hole. 7" 20 ppf J-55, STC casing. Circulate cement to surface. Cement with 1008 cu.ft.
HURF	4643	2542	<input type="checkbox"/>			
CHRA	5027	2158	<input type="checkbox"/>			
UCLFH	5634	1551	<input type="checkbox"/>			
CLFH	5840	1345	<input type="checkbox"/>			Gas; possibly wet
MENF	5907	1278	<input type="checkbox"/>			Gas.
PTLK	6213	972	<input type="checkbox"/>			Gas.
MNCS	6768	417	<input type="checkbox"/>			
GLLP	7397	-212	<input type="checkbox"/>			Gas. Possibly wet.
GRHN	8179	-994	<input type="checkbox"/>			Gas possible, highly fractured
GRRS	8239	-1054	<input type="checkbox"/>			
TWLS	8295	-1110	<input type="checkbox"/>			Gas
CBBO	8388	-1203	<input type="checkbox"/>			Gas
CBRL	8436	-1251	<input type="checkbox"/>			
OKCN	8487	-1302	<input type="checkbox"/>			
ENCINAL	8511	-1326	<input type="checkbox"/>			

# PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 27-4 UNIT 70P

DEVELOPMENT

TD	8511	-1326	<input type="checkbox"/> 1200 psc	6-1/4" Hole. 4-1/2", 10.5/11.6 ppf, J-55 STC/LTC casing. Cement with 571 cuft. Circulate cement a minimum of 100' inside the previous casing string.
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**Reference Wells:**

Reference Type	Well Name	Comments
Production	SJ 27-4 #70	SW 4-27N-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  
Mudlog from 100' above Greenhorn to TD.

**Additional Information:**

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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Comments: Location/Tops/Logging - MVNM027N004W04SW2 DK 27N04W04SW2

Zones - MVNM027N004W04SW2 DK 27N04W04SW2

# ConocoPhillips or its affiliates

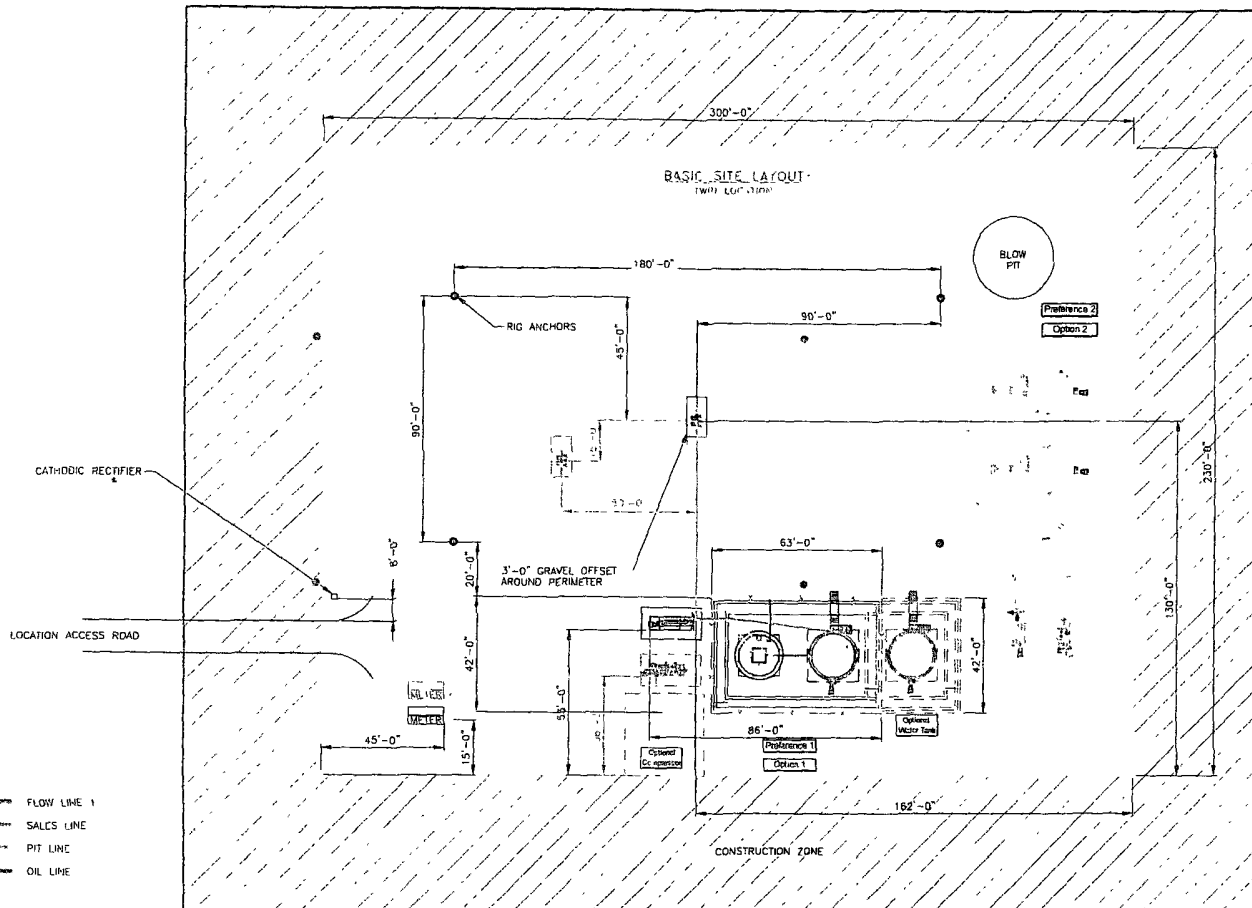
## Survey Report

<b>Company:</b>	ConocoPhillips Lower 48	<b>Local Co-ordinate Reference:</b>	Well SJ 27-4 #70P
<b>Project:</b>	San Juan Basin	<b>TVD Reference:</b>	WELL @ 7186.0ft (Original Well Elev)
<b>Site:</b>	Monty's Site for directional MV/DK wells	<b>MD Reference:</b>	WELL @ 7186.0ft (Original Well Elev)
<b>Well:</b>	SJ 27-4 #70P	<b>North Reference:</b>	True
<b>Wellbore:</b>	SJ 27-4 #70P	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Plan #1	<b>Database:</b>	EDM Central Planning

Targets										
Target Name	hit/miss target	Dip Angle	Dip Dir	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Shape		(d)	(d)	(ft)	ft	ft	(m)	(m)		
SJ 27-4 #70P - PCP		0 00	0 00	8,511.0	-291.0	1,191.0	-93.91	361.78	30° 59' 21.632" N	109° 25' 30.412" W
- plan hits target										
- Point										
SJ 27-4 #70P - ICP		0 00	0.00	4,317.0	-291.0	1,191.0	-93.91	361.78	30° 59' 21.632" N	109° 25' 30.412" W
- plan hits target										
- Point										

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(d)	(d)	
3,626.0	3,447.0	Ojo Alamo		0.00		
3,818.2	3,627.0	Kirtland		0.00		
3,916.9	3,720.0	Fruitland		0.00		
4,265.3	4,059.0	Pictured Cliffs		0.00		
4,424.1	4,217.0	Lewis		0.00		
4,850.1	4,643.0	Huerf. Bent.		0.00		
5,234.1	5,027.0	Chacra		0.00		
5,841.1	5,634.0	Upper Cliffhouse		0.00		
6,047.1	5,840.0	Mass Cliffhouse		0.00		
6,114.1	5,907.0	Menefee		0.00		
6,420.1	6,213.0	Pt. Lookout		0.00		
6,975.1	6,768.0	Mancos Shale		0.00		
7,604.1	7,397.0	Gallup		0.00		
8,386.1	8,179.0	Greenhorn		0.00		
8,446.1	8,239.0	Graneros		0.00		
8,502.1	8,295.0	Two Wells		0.00		
8,595.1	8,388.0	Upper Cubero		0.00		
8,643.1	8,436.0	Lower Cubero		0.00		
8,694.1	8,487.0	Oak Canyon		0.00		
8,718.1	8,511.0	Encinal		0.00		
8,718.1	8,511.0	TD		0.00		

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



- FLOW LINE 1
- SALES LINE
- PIT LINE
- OIL LINE

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

	ENGINEERING REVIEW							REFERENCE DRAWINGS		 SAN JUAN BUSINESS UNIT	CONOCOPHILLIPS HIGH PRESSURE 3 PHASE FACILITY DIAGRAM- SITE LAYOUT						
								DISCIPLINE	REVIEWED		DATE	NO.	DESCRIPTION	CLIENT No.	CLIENT APPR.	APPR. DATE	
															SCALE: NONE	CREATION DATE: 6/20/11	SHEET No.
	DESCRIPTION	DATE	BY	CHK'D	ENG	DISC	PRJ.	ELECTRICAL	P/ING		T & C	CIVIL/STRUCTURAL	PROJECT	DRAWN BY	ISSUE No.	HP3PHASE-REV1	1 OF 5
											PROJECT		DRAWN BY		ISSUE No.		1 OF 5

\*\*\*\*\*hp3p3hazsmt31mhp3p3jshd3ry1tem Location - 48 Ln, SUL skp, 34783/8207 - 68392\*



# BURLINGTON RESOURCES OIL & GAS COMPANY LP

SAN JUAN 27-4 UNIT 70P

1156' FSL, 1124' FWL

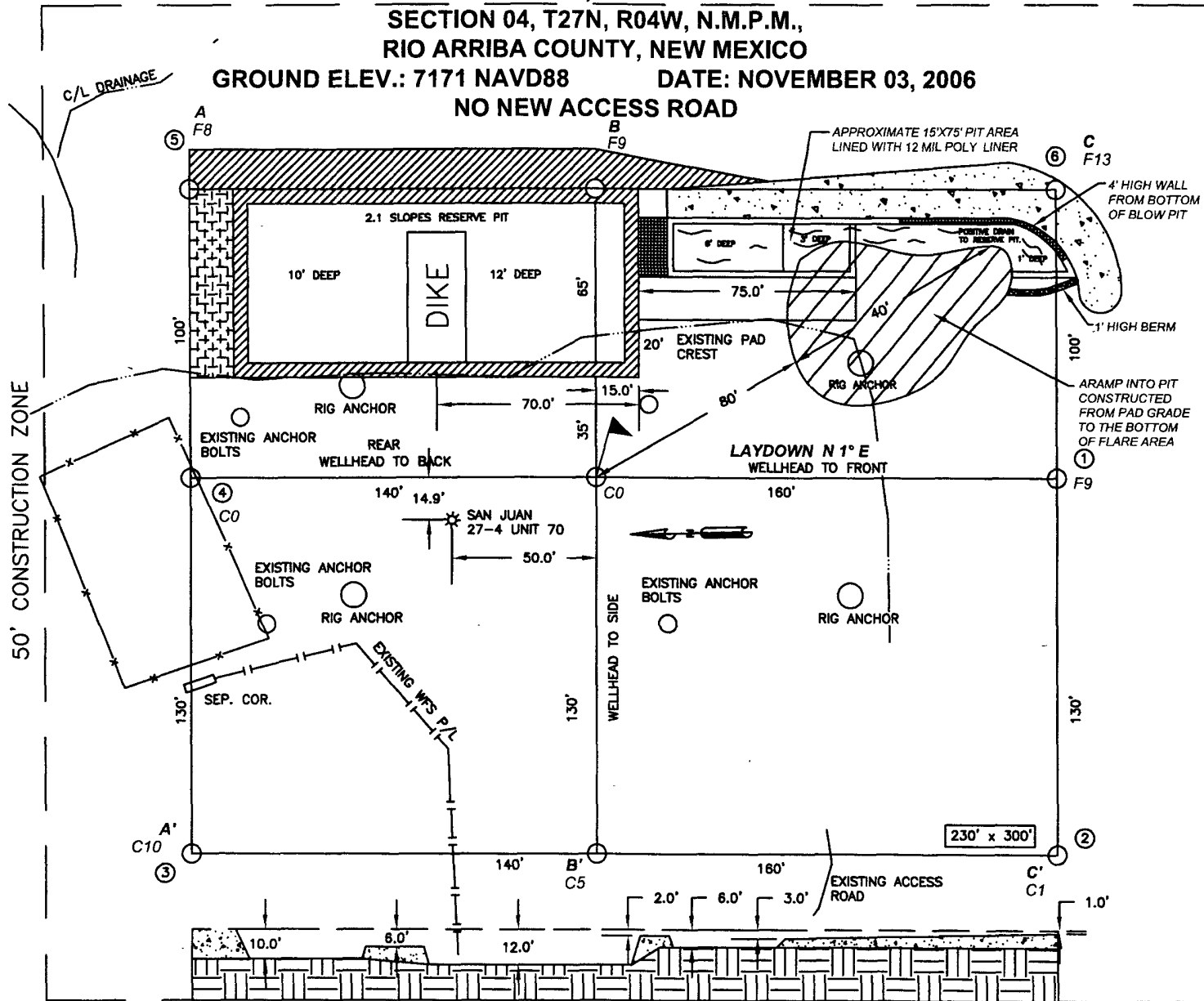
SECTION 04, T27N, R04W, N.M.P.M.,

RIO ARriba COUNTY, NEW MEXICO

GROUND ELEV.: 7171 NAVD88

DATE: NOVEMBER 03, 2006

NO NEW ACCESS ROAD



**PIT CROSS SECTION**

330' x 400' = 3.03 ACRES

NAD 83 LAT.: 36.5988888889° N LONG.: 107.261111111° W

**CCI**

**CHENAULT CONSULTING INC.**

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

NOTES:

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 27-4 UNIT 70P

1516' FSL, 1124' FWL

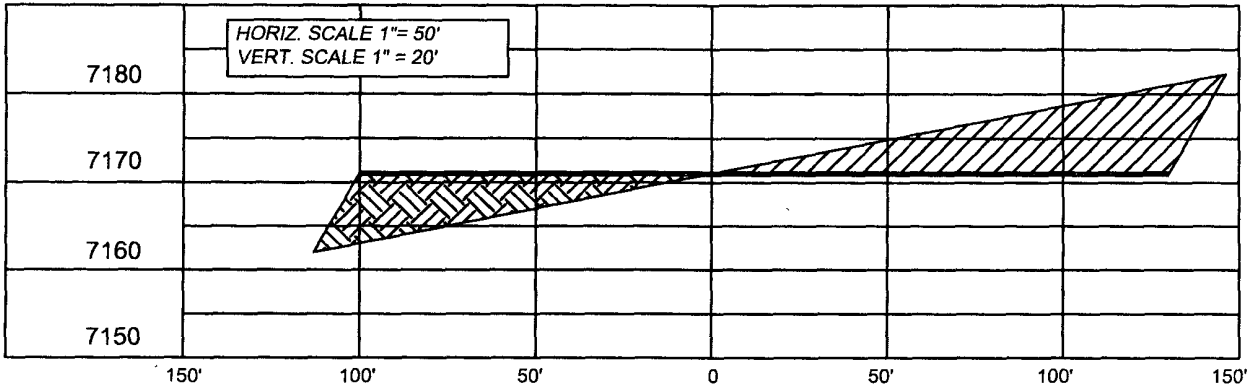
SECTION 04, T27N, R04W, N.M.P.M.,  
RIO ARRIBA COUNTY, NEW MEXICO

ELEV.: 7171 NAVD88

NO NEW ACCESS ROAD

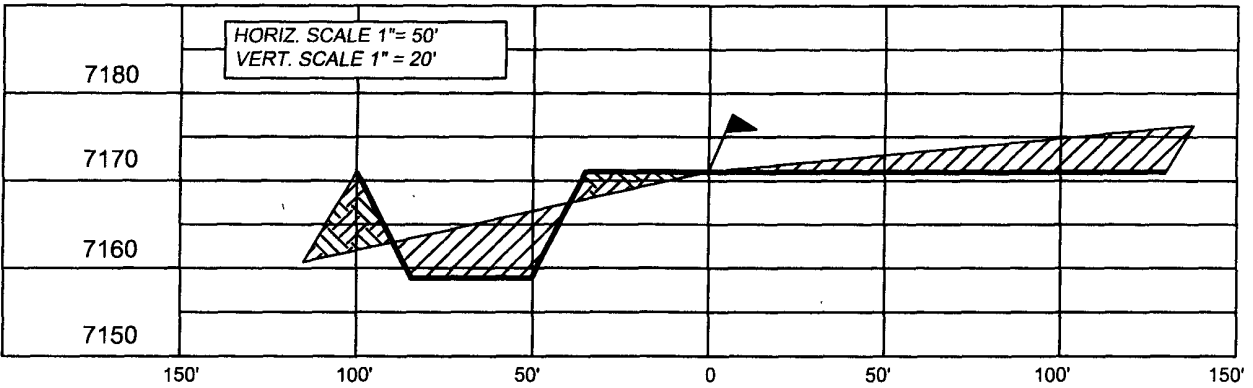
A - A'

C/L



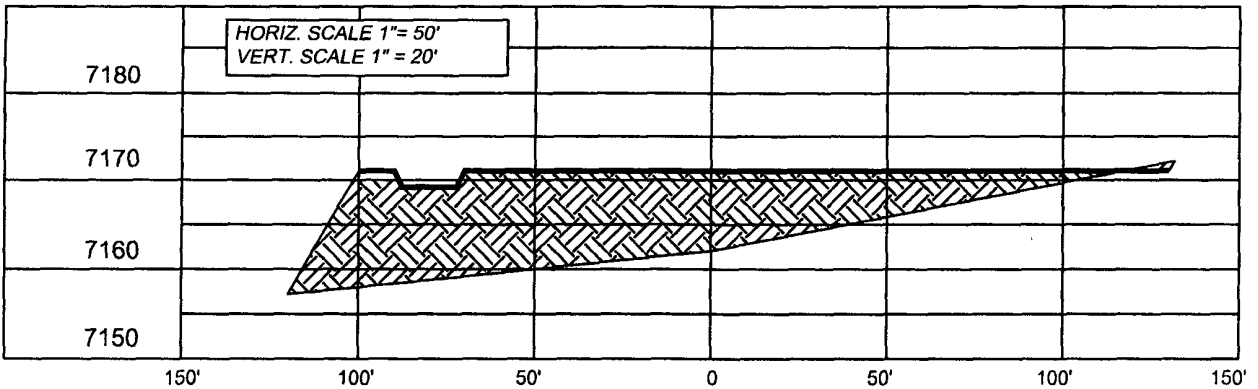
B - B'

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.	11/3/06

**CCI**

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

**CHENAULT CONSULTING INC.**