

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

RECEIVED

NOV 01 2007

Bureau of Land Management  
Farmington Field Office

RCVD DEC 7 '07

1a. Type of Work DRILL	5. Lease Number USA SF-078425 Unit Reporting Number
1b. Type of Well GAS	6. If Indian, All. or Tribe
2. Operator <b>BURLINGTON</b> RESOURCES Oil & Gas Company, LP	7. Unit Agreement Name OIL CONS. DIV. San Juan 29-7 Unit
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499  (505) 326-9700	8. Farm or Lease Name DIST. 3
4. Location of Well Surf: Unit M(SWSW), 935' FSL & 1085' FWL BH: Unit L(NWSW), 1740' FSL & 350' FWL  Surf: Latitude 36.677651 N Longitude 107.545610 W BH: Latitude 36.679841 N Longitude 107.548122 W	9. Well Number #70M
10. Field, Pool, Wildcat Blanco MV/Basin DK	11. Sec., Twn, Rge, Mer. (NMPM) M Sec. 35, T29N, R7W API # 30-039-30417
14. Distance in Miles from Nearest Town 19 miles/Blanco	12. County Rio Arriba
15. Distance from Proposed Location to Nearest Property or Lease Line 350'	13. State NM
16. Acres in Lease 2080.000	17. Acres Assigned to Well MV/DK 320 (W/2)
18. Distance from Proposed Location to Nearest Well, Drlg. Compl, or Applied for on this Lease 101' from San Juan 29-7 Unit #70E	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6775' GL	22. Approx. Date Work will Start
23. Proposed Casing and Cementing Program See Operations Plan attached	
24. Authorized by: <u>Sasha Spangler</u> Sasha Spangler (Regulatory Technician)	11-1-07 Date

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
APPROVED BY Wayne Townsend TITLE Acting AFM DATE 12-5-07

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 C104 FOR directional survey and  
asdrille 6 C-102

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

NMOCD DEC 13 2007

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

NOTIFY AZTEC OCD 24 HRS.

PRIOR TO CASING & CEMENT

DISTRICT I  
1635 N. French Dr., Hobbs, N.M. 88240

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

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr. NOV 01 2007  
Santa Fe, NM 87505

Bureau of Land Management  
Farmington Field Office

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

API Number 30-039-30417	Pool Code 72319/71599	Pool Name BASIN DAKOTA/BLANCO MESAVERDE
Property Code 7465	Property Name SAN JUAN 29-7 UNIT	Well Number 70M
OGRIID No. 14538	Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP	Elevation 6587'

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	35	29-N	7-W		935'	SOUTH	1085'	WEST	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
L	35	29-N	7-W		1740'	SOUTH	350'	WEST	RIO ARriba

Dedicated Acres MV/DK 320.00 (W/2)	Joint or Infill	Consolidation Code	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

<p>16</p> <p>BOTTOM HOLE LAT: 36°40.7900' N. LONG: 107°32.8509' W. NAD 1927 LAT: 36.679841° N. LONG: 107.548122° W. NAD 1983</p> <p>35</p> <p>SF-078425</p> <p>350' BOTTOM HOLE</p> <p>2640' SURFACE</p> <p>1085'</p> <p>1740'</p> <p>935'</p> <p>N88°43' W 2640'</p> <p>SURFACE LAT: 36°40.6587' N. LONG: 107°32.7002' W. NAD 1927 LAT: 36.677851° N. LONG: 107.545610° W. NAD 1983</p>	<p>17 OPERATOR CERTIFICATION</p> <p>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 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 a working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>Patsy Clugston</i> 7-20-07 Signature Patsy Clugston Printed Name</p> <p>18 SURVEYOR CERTIFICATION</p> <p>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.</p> <p>7-17-07 Date of Survey</p> <p><i>Glen W. Russell</i> Signature GLEN W. RUSSELL 15703 LICENSED PROFESSIONAL SURVEYOR Certificate Number 15703</p>
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## State of New Mexico

Energy, Minerals and Natural Resources

Form C-103

May 27, 2004

## OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

WELL API NO.

30-039- 30417

5. Indicate Type of Lease

STATE ☐FEE ☐

6. State Oil &amp; Gas Lease No.

USA SF-078425

7. Lease Name or Unit Agreement Name

San Juan 29-7 Unit

8. Well Number

70M

9. OGRID Number

14538

10. Pool name or Wildcat

Basin DK / Blanco MV

## 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 M : 935' feet from the South line and 1085' feet from the West line  
Section 35 Township 29N Range 7W NMPM County Rio Arriba

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

6587' GL

Pit or Below-grade Tank Application

☒ or Closure ☐Pit type Workover

Depth to Groundwater

&gt;100'

Distance from nearest fresh water well

&gt;1000'

Distance from nearest surface water

&gt;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:

Drilling Pit ☒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

10/30/2007

Type or print name

Sasha Spangler

E-mail address:

Telephone No.

505-326-9568

For State Use Only

APPROVED BY

TITLE

Deputy Oil & Gas Inspector,  
District #3

DATE

DEC 13 2007

Conditions of Approval (if any):

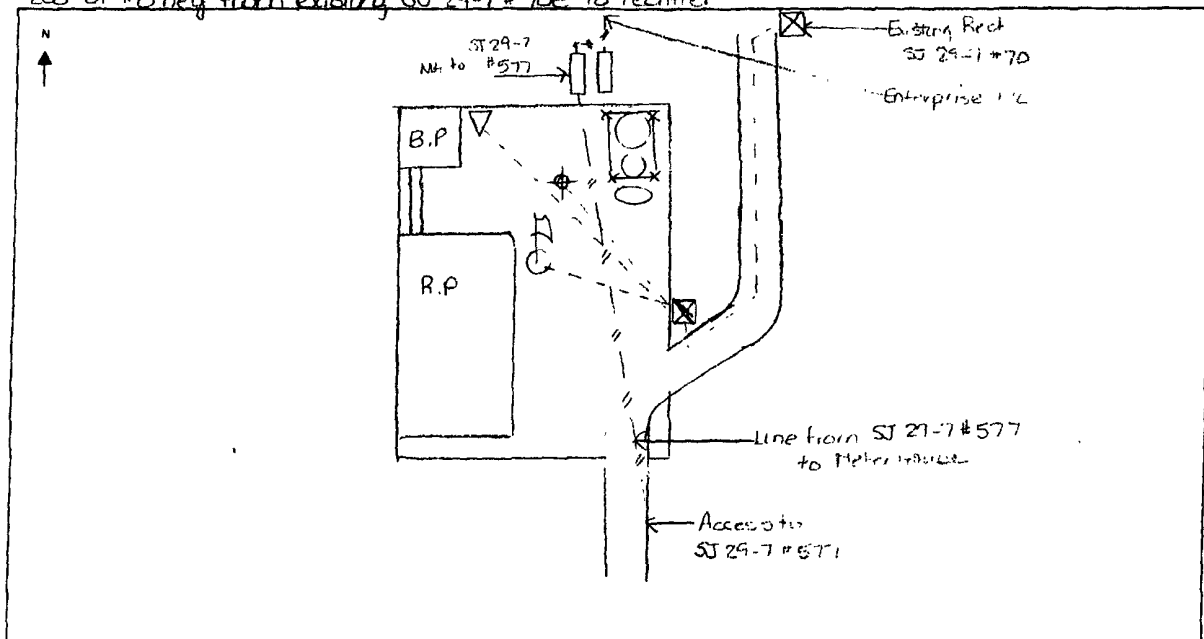


TECHNICAL SERVICES  
A CORROSION COMPANY

### CATHODIC PROTECTION PLAN FOR NEW WELLS

WELL NAME SJ 29-7 #70M LEGALS M-35-29-7 COUNTY Big Horn

**PURPOSED C.P. SYSTEM:** Drill GB on NE corner of location. Set rectifier on SE edge of the location (N side of access). Trench approx 1000' of ALC from existing rectifier on SJ 29-7 #70 to rectifier. Trench approx 175' of #8 neg cable from proposed well to rectifier. Trench approx 200' of #8 neg from existing SJ 29-7 #70E to rectifier.



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

COMMENTS: \_\_\_\_\_

NEAREST POWER SOURCE Existing Rect. SJ 29-7 #70 DISTANCE: 1000'

PIPELINES IN AREA: Enterprise PLC

TECHNICIAN: Heidi L. Johnson DATE: 7/19/07

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 29-7 UNIT 70M

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7156				AFE \$:	
Field Name: hBR_SAN JUAN 29-7 UNIT		Rig: Aztec Rig 711		State: NM	County: RIO ARRIBA		API #:
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist: Riley, Brook		Phone: +1 505-324-6108		Prod. Engineer:		Phone:	
Res. Engineer: McKee, Cory J		Phone: 505-326-9826		Proj. Field Lead:		Phone:	
<b>Primary Objective (Zones):</b>							
<b>Zone</b>	<b>Zone Name</b>						
FRR	BASIN DAKOTA (PRORATED GAS)						
RON	BLANCO MESAVERDE (PRORATED GAS)						
<b>Location: Surface</b>		<b>Datum Code: NAD 27</b>				<b>Deviated</b>	
Latitude: 36.677644	Longitude: -107.545003	X:	Y:	Section: 35	Range: 007W		
Footage X: 1085 FWL	Footage Y: 935 FSL	Elevation: 6587	(FT)	Township: 029N			
Tolerance:							
<b>Location: Bottom Hole</b>		<b>Datum Code: NAD 27</b>				<b>Deviated</b>	
Latitude: 36.679834	Longitude: -107.547515	X:	Y:	Section: 35	Range: 007W		
Footage X: 350 FWL	Footage Y: 1740 FSL	Elevation:	(FT)	Township: 029N			
Tolerance:							
Location Type: Year Round		Start Date (Est.): 1/1/2008		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6599 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	215' 200	6399	<input type="checkbox"/>			12-1/4 hole. 215' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 170 cu. ft. Circulate cement to surface.	
OJO ALAMO	2439	4160	<input type="checkbox"/>				
KIRTLAND	2587	4012	<input type="checkbox"/>				
FRUITLAND	3086	3513	<input type="checkbox"/>			Possible Gas	
PICTURED CLIFFS	3353	3246	<input type="checkbox"/>				
LEWIS	3476	3123	<input type="checkbox"/>				
Intermediate Casing	3576	3023	<input type="checkbox"/>			8 3/4" Hole. 7", 23 ppf, L-80, LTC Casing. Cement with 853 cu. ft. Circulate cement to surface.	
HUERFANITO BENTONITE	3954	2645	<input type="checkbox"/>				
CHACRA	4309	2290	<input type="checkbox"/>				
MASSIVE CLIFF HOUSE	4979	1620	<input type="checkbox"/>	550		Gas	
MENEFEE	5155	1444	<input type="checkbox"/>				
MASSIVE POINT LOOKOUT	5534	1065	<input type="checkbox"/>				
MANCOS	6031	568	<input type="checkbox"/>				
UPPER GALLUP	6762	-163	<input type="checkbox"/>				
GREENHORN	7495	-896	<input type="checkbox"/>				
GRANEROS	7552	-953	<input type="checkbox"/>				
TWO WELLS	7597	-998	<input type="checkbox"/>	1300		Gas	
UPPER CUBERO	7708	-1109	<input type="checkbox"/>				
LOWER CUBERO	7738	-1139	<input type="checkbox"/>				
ENCINAL	7813	-1214	<input type="checkbox"/>				

# PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 29-7 UNIT 70M

DEVELOPMENT

TOTAL DEPTH DK	7813	-1214	<input type="checkbox"/>	6-1/4" hole. 4-1/2", 11.6 ppf, L-80, LT&C casing. Cement with 577 cu. ft. Circulate cement a minimum of 100 ft. inside the previous casing string. No open hole logs. Cased hole TDT with GR to surface.
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Reference Wells:		
Reference Type	Well Name	Comments

Logging Program:	
Intermediate Logs:	<input type="checkbox"/> Log only if show <input type="checkbox"/> GR/ILD <input type="checkbox"/> Triple Combo

TD Logs:	<input type="checkbox"/> Triple Combo <input type="checkbox"/> Dipmeter <input type="checkbox"/> RFT <input type="checkbox"/> Sonic <input type="checkbox"/> VSP <input type="checkbox"/> TDT <input checked="" type="checkbox"/> Other
CBL/GR. Est bottom perf is ~20' above TD.	

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

Comments: Location/Tops/Logging - MVNM029N007W35SW2 DK 29N07W35SW2 Avoid M & N, do not twin, prefer L,K.

Zones - MVNM029N007W35SW2 DK 29N07W35SW2

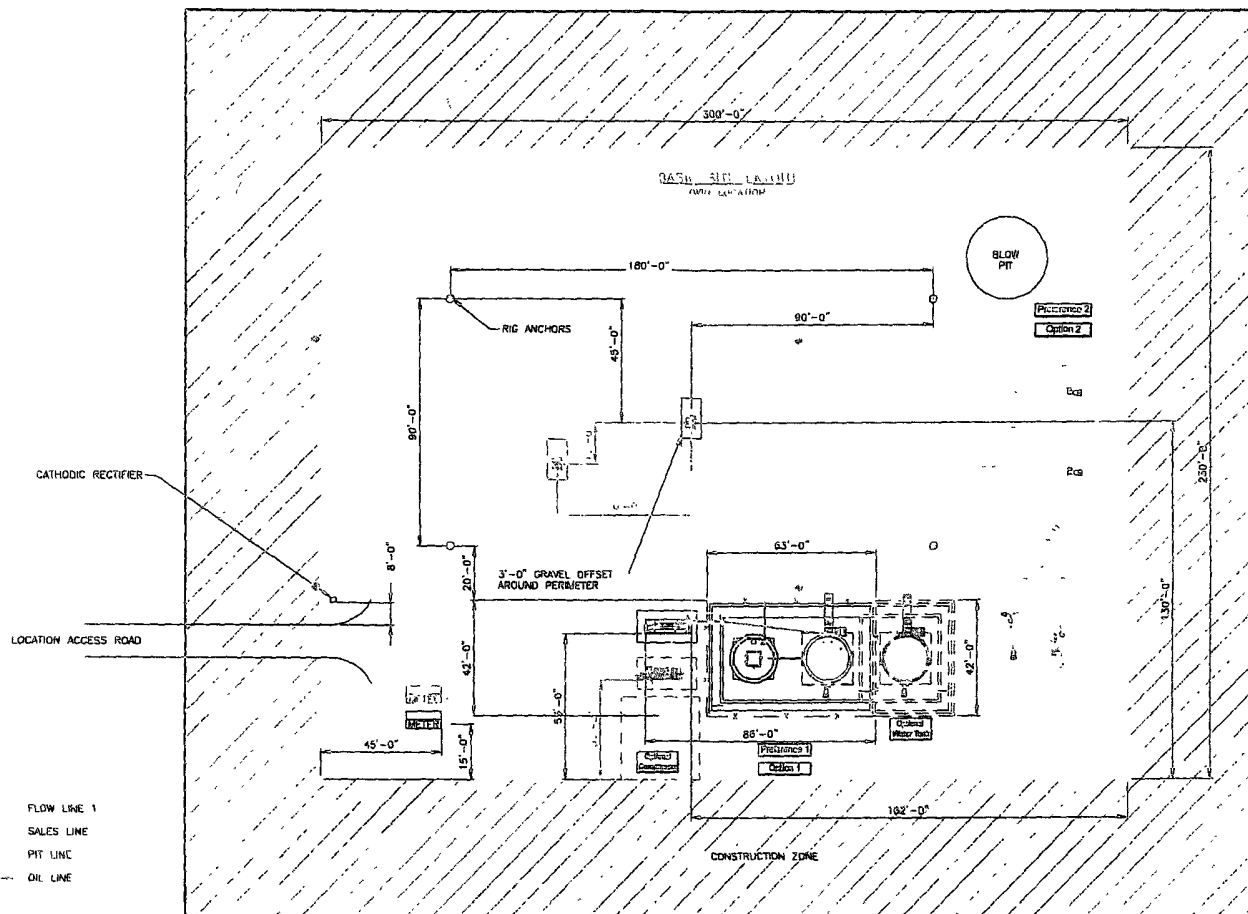
General/Work Description - 6/20/07-Project is economic as a DD per CLM  
LEWIS INCLUDED

# ConocoPhillips or its affiliates

## Planning Report


Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 29-7 #70M
Company:	ConocoPhillips	TVD Reference:	Generic Rig RKB @ 6602.0ft (Generic Rig)
Project:		MD Reference:	Generic Rig RKB @ 6602.0ft (Generic Rig)
Site:	Russell's Site for Directional MV/DK wells	North Reference:	True
Well:	SJ 29-7 #70M	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 29-7 #70M		
Design:	APD Directional Plan		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (d)	Dip Direction (d)	
2,591.2	2,439.0	Ojo		0.00		
2,755.2	2,587.0	Kirtland		0.00		
3,294.4	3,086.0	Fruitland		0.00		
3,566.5	3,353.0	Pictured Cliffs		0.00		
3,689.9	3,476.0	Lewis		0.00		
4,168.0	3,954.0	Chacra		0.00		
4,168.0	3,954.0	Huerfano Bentonite		0.00		
4,523.0	4,309.0	Chacra		0.00		
5,193.0	4,979.0	Mass. Cliffhouse		0.00		
5,369.0	5,155.0	Menefee		0.00		
5,748.0	5,534.0	Point Lookout		0.00		
6,245.0	6,031.0	Mancos		0.00		
6,976.0	6,762.0	Upper Gallup		0.00		
7,709.0	7,495.0	Greenhorn		0.00		
7,766.0	7,552.0	Graneros		0.00		
7,811.0	7,597.0	Two Wells		0.00		
7,923.0	7,709.0	Cubero		0.00		
7,952.0	7,738.0	Lower Cubero		0.00		
8,027.0	7,813.0	Encinal		0.00		
8,027.0	7,813.0	TD		0.00		



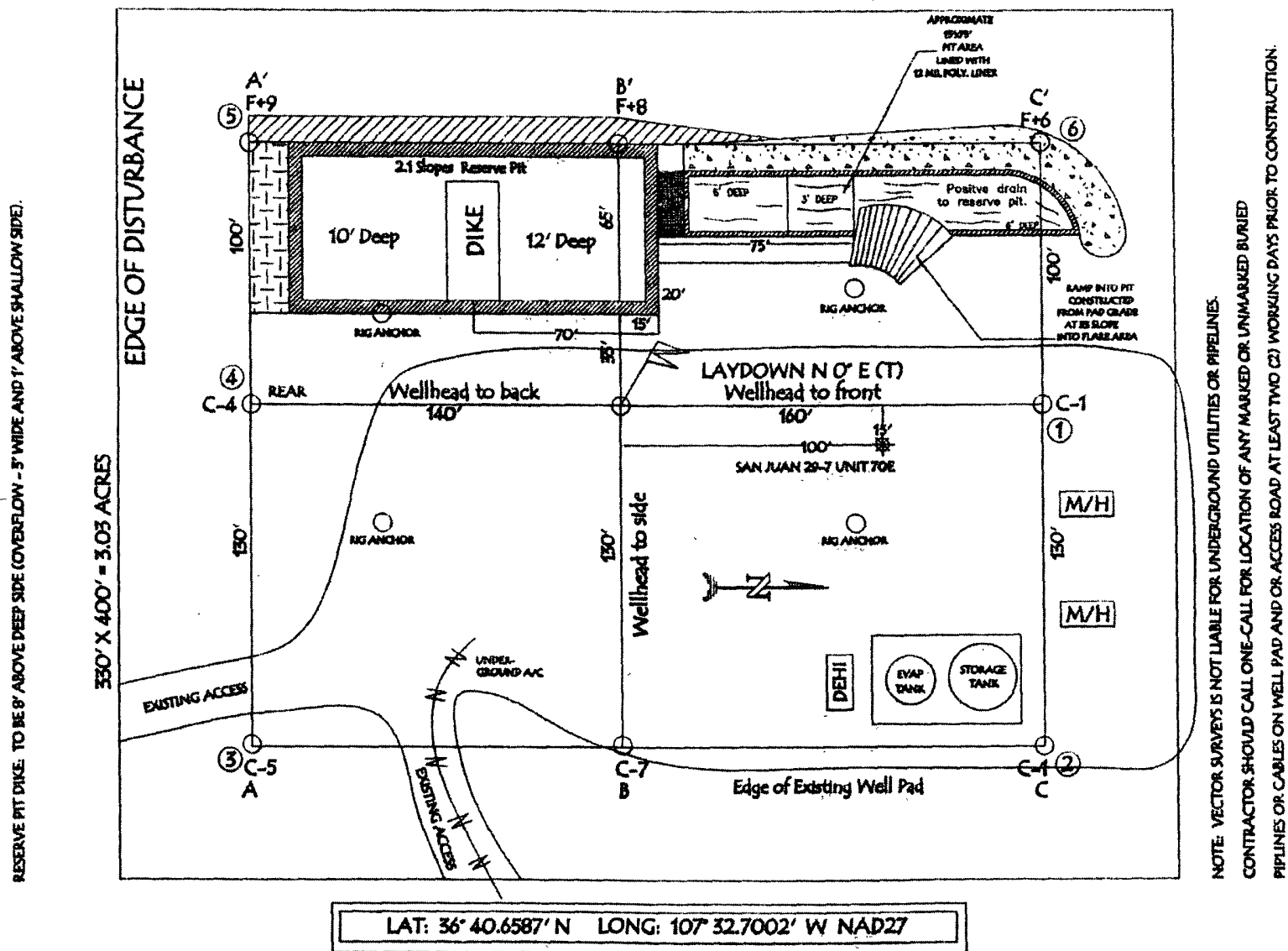
SEE SHEET 2 OF 3 FOR Piping DETAILS  
ALL UNDERGROUND PIPE IS TO BE TRENCH A MIN. OF 3'-0" TOP

SHEET 1 OF 3

										ENGINEERING REVIEW				REFERENCE DRAWINGS				CENOCO/PHILLIPS HIGH PRESSURE 3 PHASE FACILITY DIAGRAM- SITE LAYOUT			
										PROCESS	MECHANICAL	ELECTRICAL	J & C	CIVIL/STRUCTURAL	PROJECT						



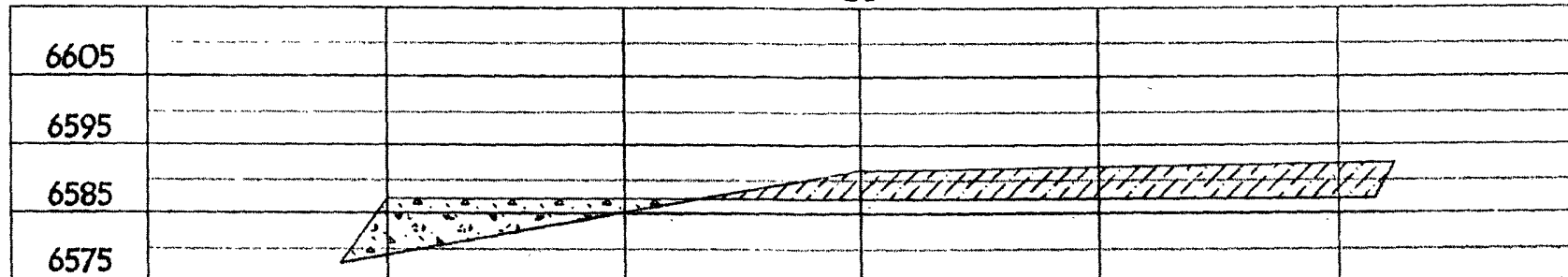
**BURLINGTON RESOURCES OIL & GAS COMPANY LP**  
**SAN JUAN 29-7 UNIT 70M, 935' FSL & 1085' FWL**  
**SECTION 35, T-29- N, R-7-W, NMPM, RIO ARriba COUNTY, NM**  
**GROUND ELEVATION: 6587', DATE: JUNE 12, 2007**



BURLINGTON RESOURCES OIL & GAS COMPANY LP  
 SAN JUAN 29-7 UNIT 70M, 935' FSL & 1085' FWL  
 SECTION 35, T-29- N, R-7-W, NMPM, RIO ARriba COUNTY, NM  
 GROUND ELEVATION: 6587', DATE: JUNE 12, 2007

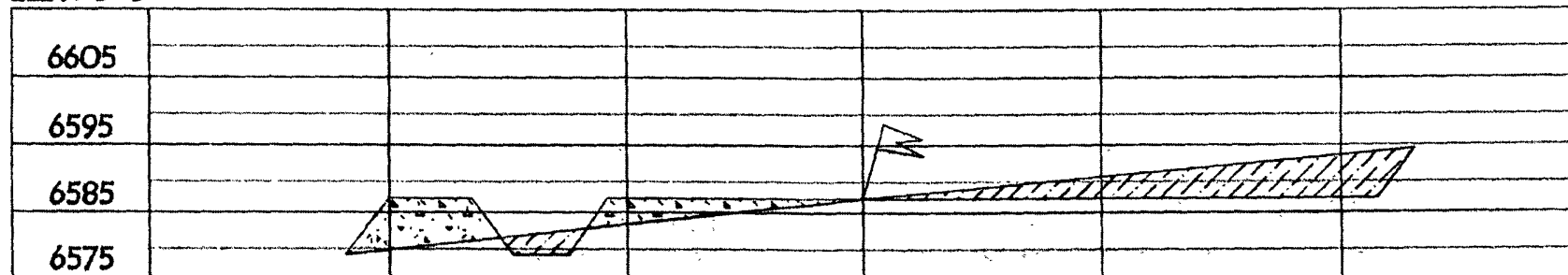
ELEV. A'-A

C/L



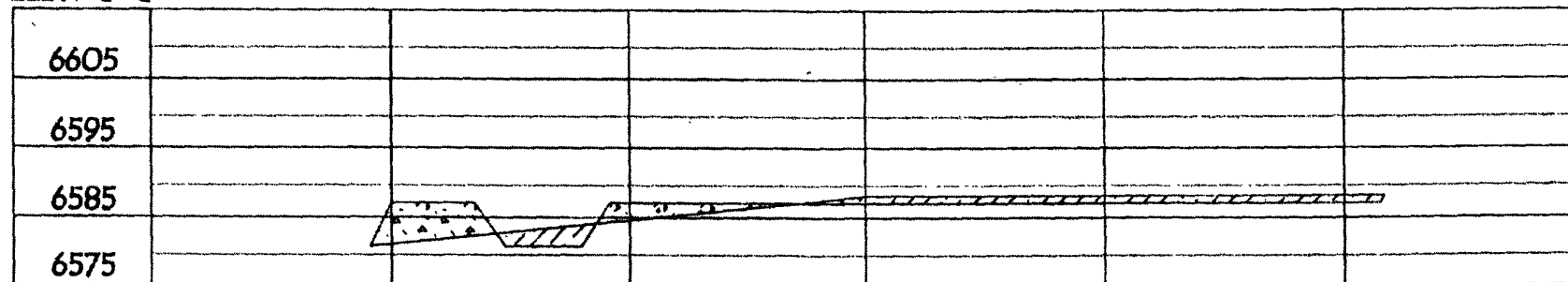
ELEV. B'-B

C/L



ELEV. C'-C

C/L



NOTE: VECTOR 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.