

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

DIST. 3

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	RECEIVED AUG 20 2007 Bureau of Land Management Farmington Field Office		5. Lease Number NMSF-080674 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 San Juan 27-4 Unit
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700			8. Farm or Lease Name
4. Location of Well Unit A (NENE), 785' FNL & 900' FEL, Latitude 36° 33.8275659'N Longitude 107° 13.9305956'W			9. Well Number #143B
	10. Field, Pool, Wildcat Blanco Mesaverde		
	11. Sec., Twn, Rge, Mer. (NMPM) A Sec. 22, 27N, R04W API # 30-039- 30327		
14. Distance in Miles from Nearest Town	12. County Rio Arriba	13. State NM	
15. Distance from Proposed Location to Nearest Property or Lease Line 785'			
16. Acres in Lease 2,560.00'	17. Acres Assigned to Well MV 320 Acres - E/2		
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease			
19. Proposed Depth 6420'	20. Rotary or Cable Tools Rotary		
21. Elevations (DF, FT, GR, Etc.) 6924' GL	22. Approx. Date Work will Start		
23. Proposed Casing and Cementing Program See Operations Plan attached			
24. Authorized by: <i>[Signature]</i> Regulatory Specialist	Date <u>8/17/07</u>		

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY *[Signature]* TITLE *Acting AFM* DATE 8/16/08

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.

TYPE 3 - SEE MASTER PLAN

BOND - NMB-000015; NMB-000089

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

NMOCD *[Signature]*

DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS". APR 23 2008
[Signature]

NOTIFY AZTECO CD 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

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

¹ API Number 30-039-30327		² Pool Code 72319		RECEIVED Pool Name <i>blanco</i> MESA VERDE	
⁴ Property Code 7452		⁵ Property Name SAN JUAN 27-4 UNIT			⁶ Well Number 143B
⁷ OGRID No. 14538		⁸ Operator Name BUREAU OF LAND MANAGEMENT BURLINGTON RESOURCES OIL AND GAS OPERATIONS			⁹ Elevation 6924'

¹⁰ SURFACE LOCATION

UL or lot no. A	Section 22	Township 27-N	Range 04-W	Lot Idn	Feet from the 785	North/South line NORTH	Feet from the 900	East/West line EAST	County RIO ARriba
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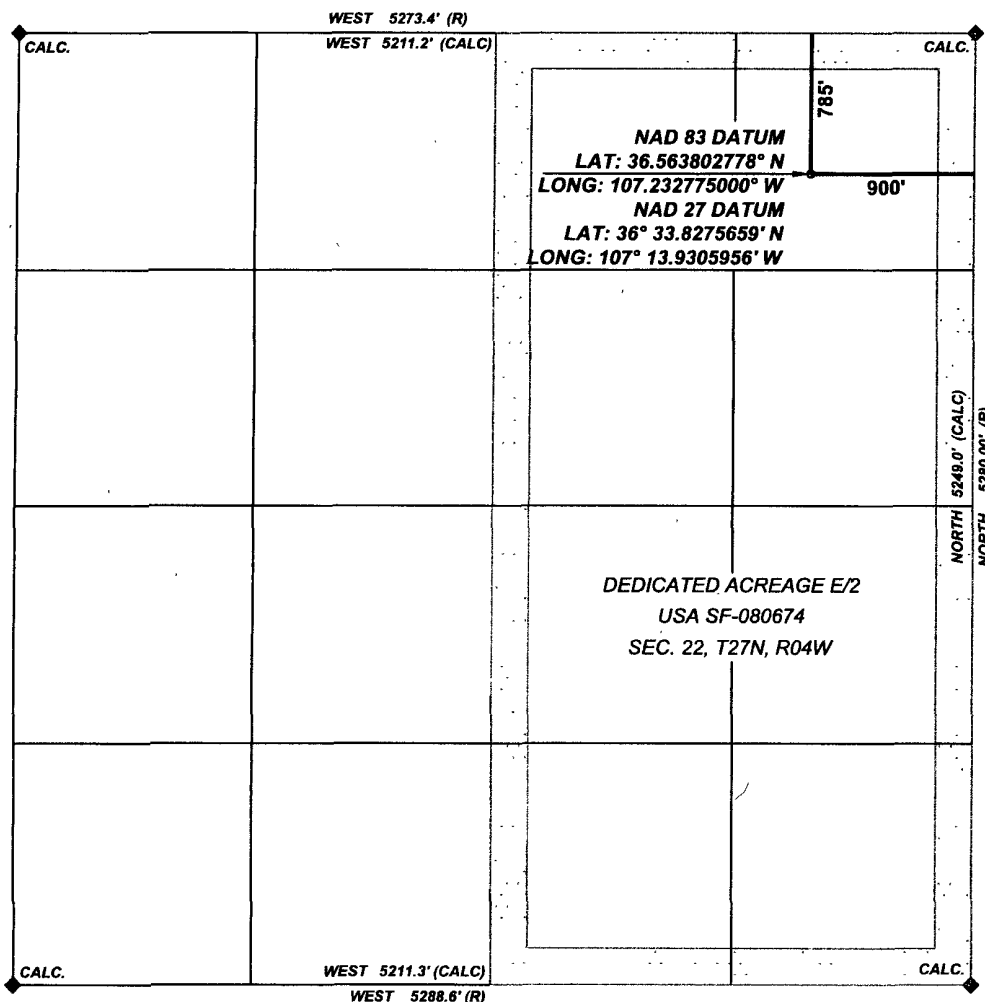
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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¹² Dedicated Acres 320.0	¹³ Joint or Infill E/2	¹⁴ Consolidation Code	¹⁵ 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



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.

Rhonda Rogers
Signature

Rhonda Rogers
Printed Name

Regulatory Technician
Title and E-mail Address

8/16/07
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: 10/24/06

Signature and Seal of Professional Surveyor:



Certificate Number: NM 11393

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.	30-039-30327
5. Indicate Type of Lease	STATE ☐ FEE ☐
6. State Oil & Gas Lease No.	Federal SF-080674
7. Lease Name or Unit Agreement Name	San Juan 27-4 Unit
8. Well Number	#143B
9. OGRID Number	14538
10. Pool name or Wildcat	Blanco Mesaverde

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 A : 785 feet from the North line and 900 feet from the East line
Section 22 Township 27N Rng 4W NMPM County Rio Arriba

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
6924' GL

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 ☐

OTHER: New Drill ☒

SUBSEQUENT REPORT OF:

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

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, ~~Unlined~~:

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 ~~lined~~, as per the risk ranking criteria. Burlington Resources anticipates closing these pits according to the Drilling / Workover Pit

* Pit must be lined.
 * At the time the pit is closed the pit contents and liner must be hauled to an OCD approved disposal.

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 Patsy Clugston TITLE Regulatory Specialist DATE 8/17/2007

Type or print name Patsy Clugston E-mail address: plugspl@conocophillips.com Telephone No. 505-326-9518

For State Use Only

Deputy Oil & Gas Inspector,
District #3

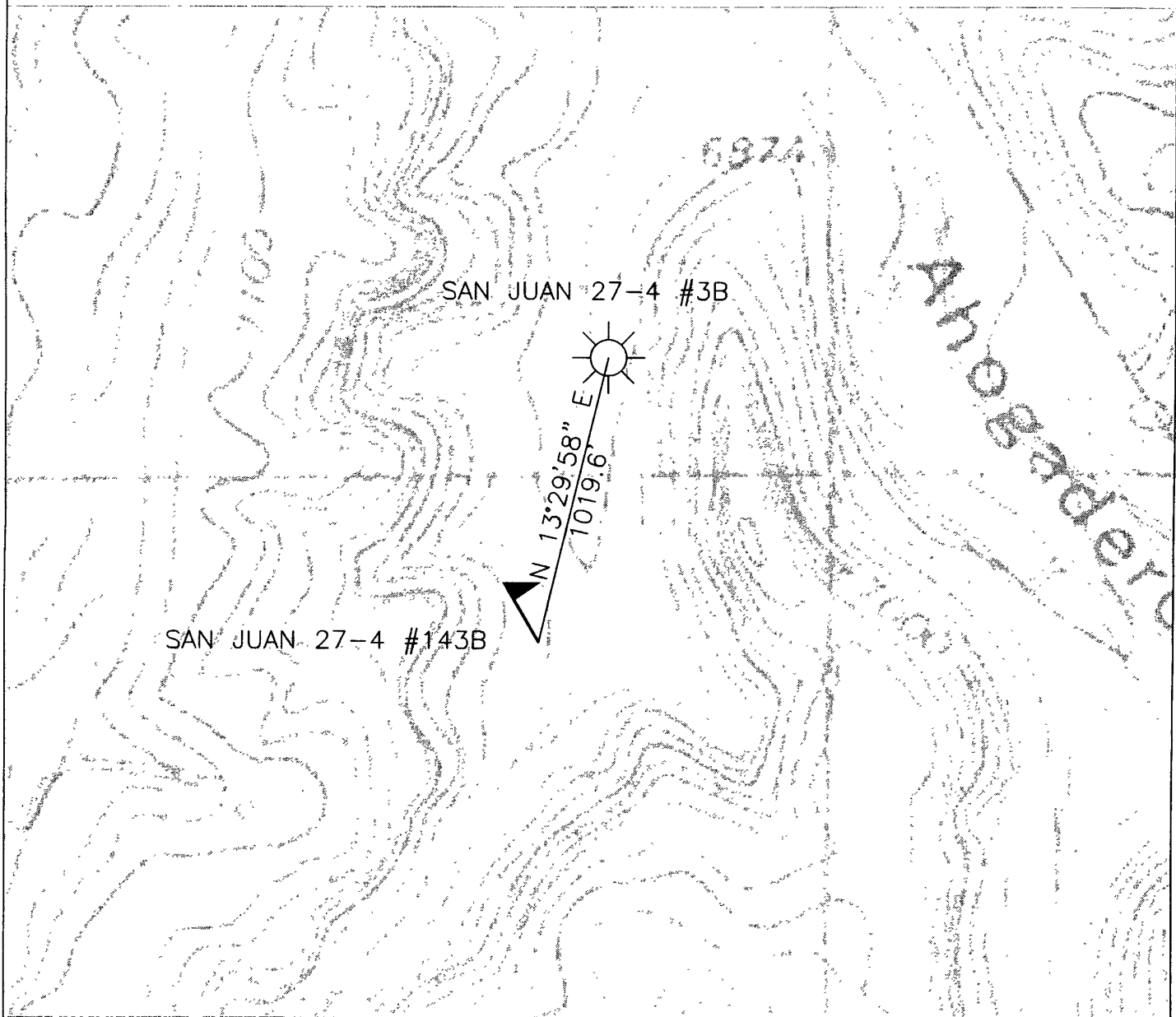
APPROVED BY [Signature] TITLE DATE APR 23 2008

Conditions of Approval (if any):

* See above conditions

BURLINGTON RESOURCES OIL AND GAS COMPANY

SAN JUAN 27-4 UNIT 143B AND 3B
SECTION 22 & 15, T-27-N, R-4-W, N.M.P.M.,
RIO ARriba COUNTY, NEW MEXICO



NOTE

REVISIONS			
NO	DESCRIPTION	REVISED BY	DATE
1	DISTANCE BETWEEN WELLS	L H	7/11/07

CCI

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

CHENAULT CONSULTING INC.

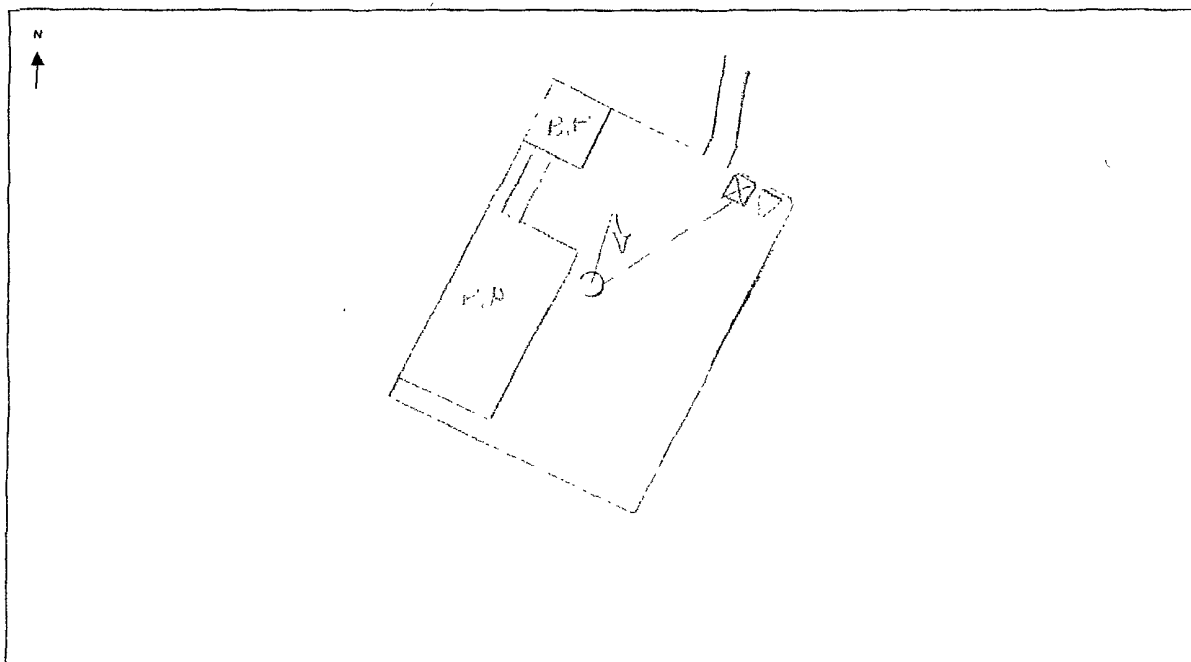


WELL LOGGING SERVICES
A SERVICE OF THE BUREAU OF LAND MANAGEMENT

CATHODIC PROTECTION PLAN FOR NEW WELLS

WELL NAME ST 27-4 #113B LEGALS 22-27-4 COUNTY Pr. & Ariz.

PURPOSED C.P. SYSTEM: Dull Cell and so. cable on post-mounted meter house. approx 350' on 28.12m. cable line. color to overhead



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

COMMENTS: _____

NEAREST POWER SOURCE NV DISTANCE: _____

PIPELINES IN AREA: up

TECHNICIAN: H. H. H. H. H. DATE: 11/2/2010

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-4 UNIT 143B

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7074		AFE \$: 524,143.28	
Field Name: hBR_SAN JUAN 27-4 UNIT		Rig: Aztec Rig 580		State: NM	County: RIO ARRIBA
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)

Location: Surface		Datum Code: NAD 27		Straight Hole	
Latitude: 36.563793	Longitude: -107.232177	X:	Y:	Section: 22	Range: 004W
Footage X: 900 FEL	Footage Y: 785 FNL	Elevation: 6924	(FT)	Township: 027N	
Tolerance:					

Location Type: Restricted	Start Date (Est.): 1/1/2008	Completion Date:	Date In Operation:
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Formation Data: Assume KB = 6936 Units = FT

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
SURFACE CSG	216	6720	☐			12-1/4" hole. 9-5/8" 32.3 ppf, H-40, STC casing. Cement with 180 cuft. Circulate cement to surface.
OJAM	3206	3730	☐			Possible water flows.
KRLD	3369	3567	☐			
FRLD	3625	3311	☐			Possible gas.
FRUITLAND	3625	3311	☐			Possible gas.
PCCF	3750	3186	☐			
LEWS	3932	3004	☐			
Intermediate Casing	4032	2904	☐			8-3/4" hole. 7", 20/23 ppf, J-55, STC/LTC casing. Cement with 950 cuft. Circulate cement to surface
HURF	4320	2616	☐			
CHRA	4763	2173	☐			
UCLFH	5388	1548	☐			
CLFH	5504	1432	☐			Gas; possibly wet
MENF	5631	1305	☐			Gas.
PTLK	5963	973	☐	750		Gas.
TD	6420	516	☐			6-1/4" hole. 4-1/2", 10.5 ppf, J-55 STC casing. Cement with 340 cuft. Circulate cement a minimum of 100' inside the previous casing string.

Reference Wells:		
Reference Type	Well Name	Comments
Production	SJ 27-4 Unit 149C	NW 22_27N_4W
Production	SJ 27-4 Unit 32	NW 23_27N_4W
Production	SJ 27-4 Unit 3A	SE 15_27N_4W
Production	SJ 27-4 Unit 143	NE_22N_4W

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-4 UNIT 143B

DEVELOPMENT

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

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

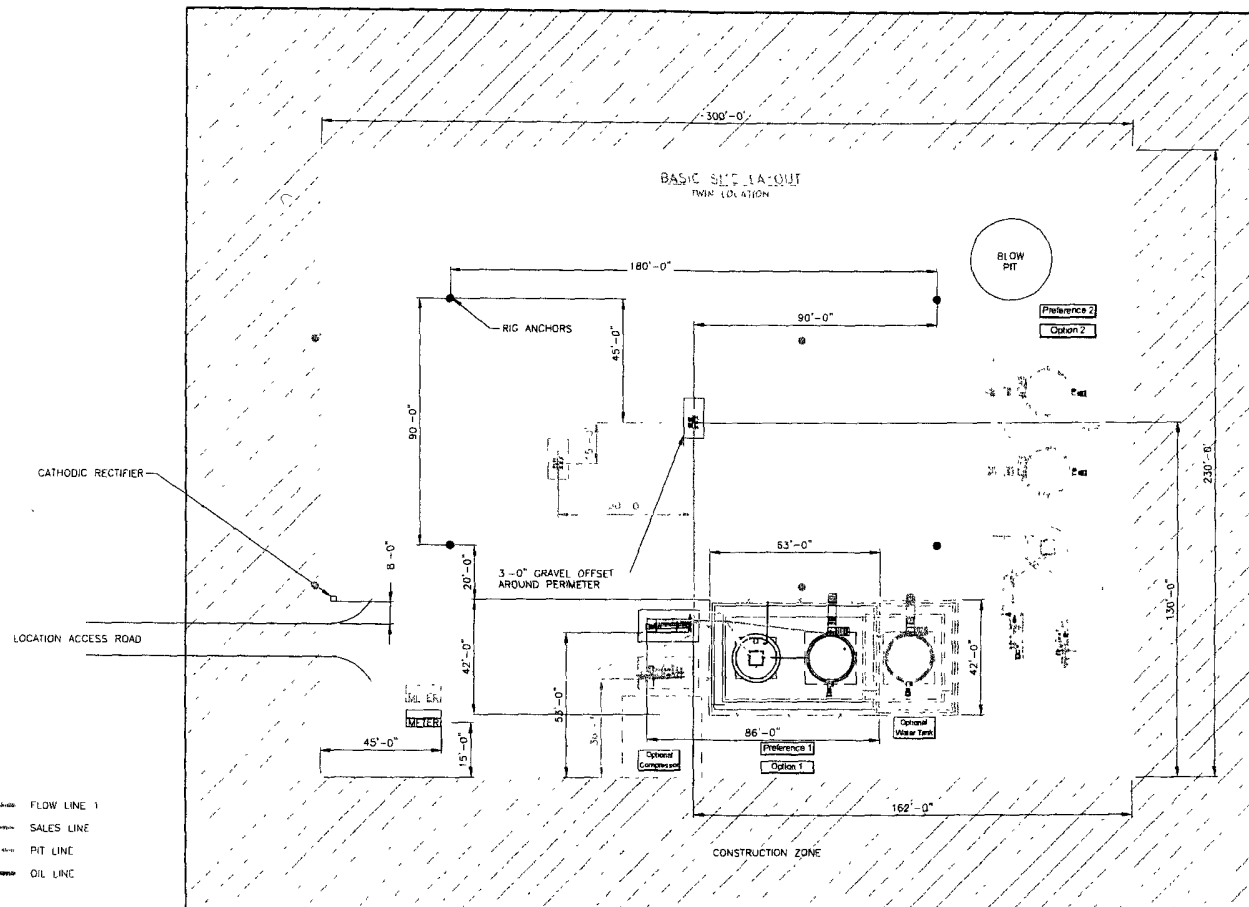
Additional Information:					
Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks

Comments: Location/Tops/Logging - MVNM027N004W22NE2 Est Bottom Perf 6320 ft (+516)

Zones - MVNM027N004W22NE2

General/Work Description - NO LEWIS

7/9/07-Is NOT economic as DD-must remain vertical (wfp)



FLOW LINE 1
 SALES LINE
 PIT LINE
 OIL LINE

SEE SHEET 1 & 2 FOR PUMP DETAILS
 ALL UNDERGROUND PIPE IS TO BE BURIED A MIN OF 3'-0" TO 4'-0"

SHEET 1 OF 5

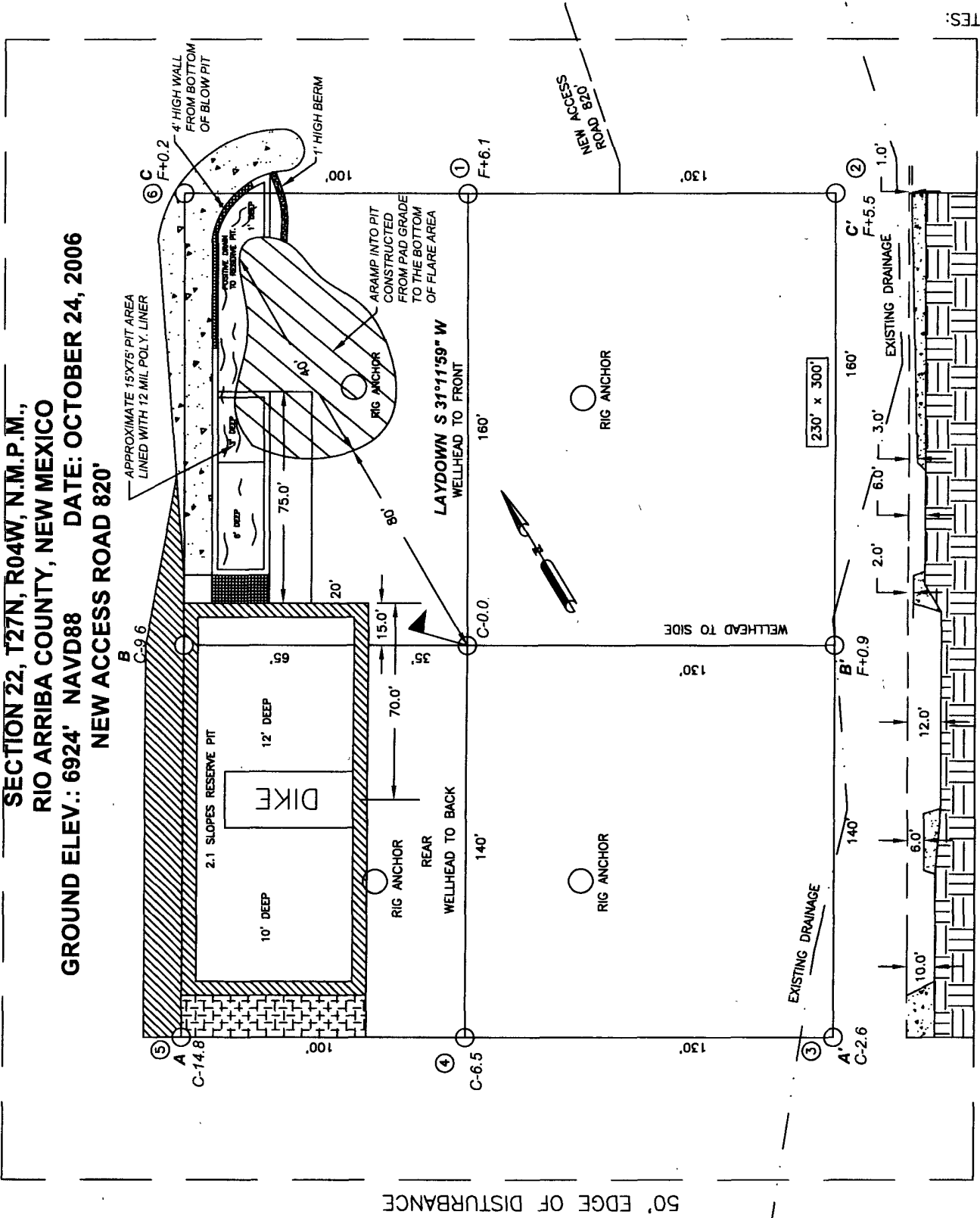
ENGINEERING REVIEW										REFERENCE DRAWINGS		CONOCOPhillips			HIGH PRESSURE 3 PHASE FACILITY DIAGRAM- SITE LAYOUT		
DISCIPLINE	REVIEWED	DATE	BY	CHK'D	ENG	DSC	PRJ	NO	DESCRIPTION	SAN JUAN BUSINESS UNIT			CLIENT No	CLIENT APPR	APPR DATE	SHEET NO 1 OF 5	HP3PHASE-REV1
PROCESS	MECHANICAL	PUMPING	ELECTRICAL	I & C	CIVIL/STRUCTURAL	PROJECT							DRAWN BY	SCALE NONE	CREATION DATE 6/26/07		

H:\projects\San Juan Business Unit\Regulatory\San Juan Business Unit Site Layout.dwg 06/26/2007 - 02:39pm

BURLINGTON RESOURCES OIL AND GAS COMPANY

SAN JUAN 27-4 UNIT 143B
785' FNL, 900' FEL

SECTION 22, T27N, R04W, N.M.P.M.,
RIO ARriba COUNTY, NEW MEXICO
GROUND ELEV.: 6924' NAVD88 DATE: OCTOBER 24, 2006
NEW ACCESS ROAD 820'



PIT CROSS SECTION

NAD 83 LAT.: 36.563802778°N / LONG.: 107.232775000°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.

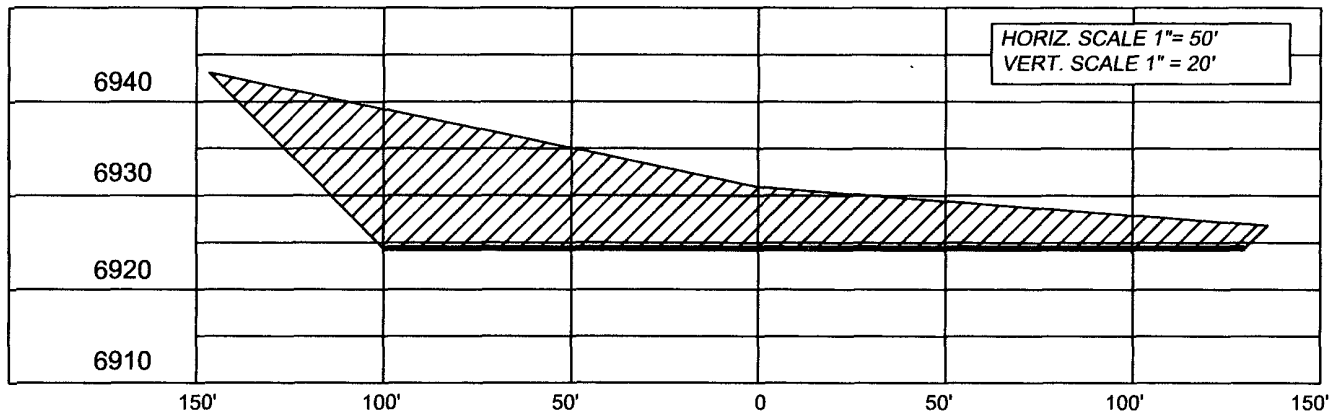
NOTES:

BURLINGTON RESOURCES OIL AND GAS COMPANY

SAN JUAN 27-4 UNIT 143B
 785' FNL, 900' FEL
 SECTION 22, T27, R04W, N.M.P.M.,
 RIO ARriba COUNTY, NEW MEXICO
 ELEV.: 6924' NAVD88

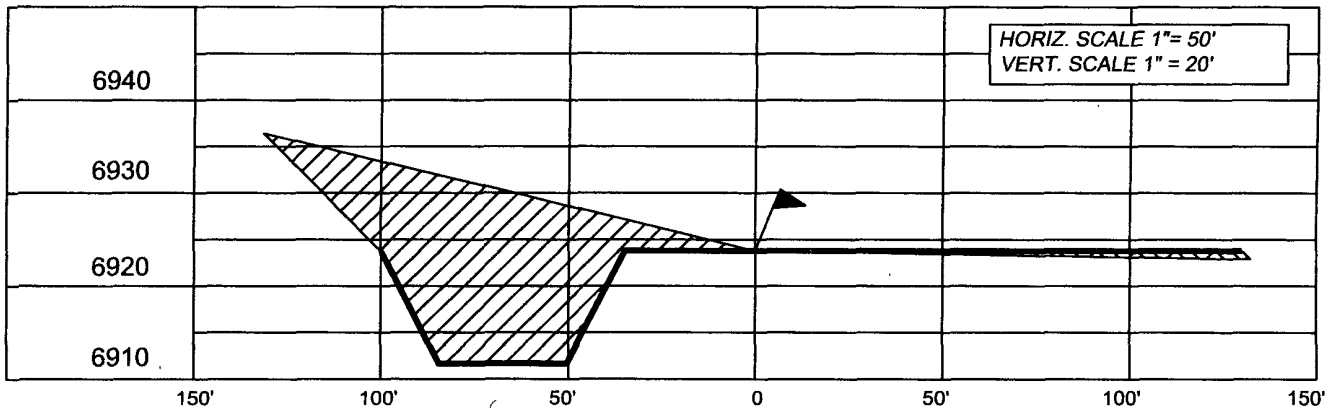
A - A'

C/L



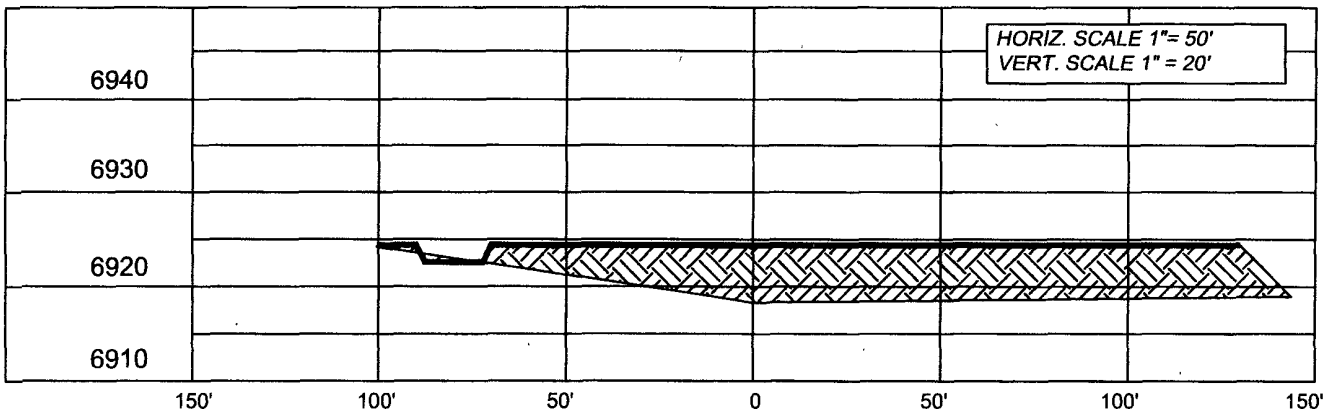
B - B'

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

CCI
 1300 W BROADWAY
 BLOOMFIELD, NM, 87413
 PHONE: (505)632-7777
CHENAULT CONSULTING INC.