

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

1a. Type of Work DRILL	RECEIVED OCT 30 2007 Bureau of Land Management Farmington Field Office	5. Lease Number USA SF-079519-A 0805/6A 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 28-5 Unit
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700		8. Farm or Lease Name 9. Well Number #54F
4. Location of Well Unit F (SENW), 1960' FNL & 2140' FWL, Latitude 36.645514 N Longitude 107.384240 W		10. Field, Pool, Wildcat Basin Dakota/Blanco Mesa Verde 11. Sec., Twn, Rge, Mer. (NMPM) F Sec. 20, T28N, R5W API # 30-039-30416
14. Distance in Miles from Nearest Town 31 miles/ Blanco		12. County Rio Arriba
15. Distance from Proposed Location to Nearest Property or Lease Line 1960'		13. State NM
16. Acres in Lease 2395.610 1320.00		17. Acres Assigned to Well DK 320 - (W/2) MV -320 (N/2)
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for, on this Lease 1786' from SJ 28-5 #63		
19. Proposed Depth 8036'		20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6740' 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		<u>10-30-07</u> Date

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY [Signature] TITLE AFM DATE 1/29/08

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

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

NMOCD FEB 01 2008

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

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

RECEIVED

OCT 30 2007

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240

DISTRICT II
1304 West Grand Avenue, Artesia, N.M. 88210

DISTRICT III
1000 Rio Brazos Rd., Artesia, N.M. 87410

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

Bureau of Land Management
State of New Mexico Farmington Field Office
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 30-039-30410	² Pool Code 72319/71599	³ Pool Name BASIN DAKOTA/BLANCO MESAVERDE
⁴ Property Code 7460	⁵ Property Name SAN JUAN 28-5 UNIT	⁶ Well Number 54F
⁷ OCRD No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP	⁹ Elevation 6740'

¹⁰ Surface Location

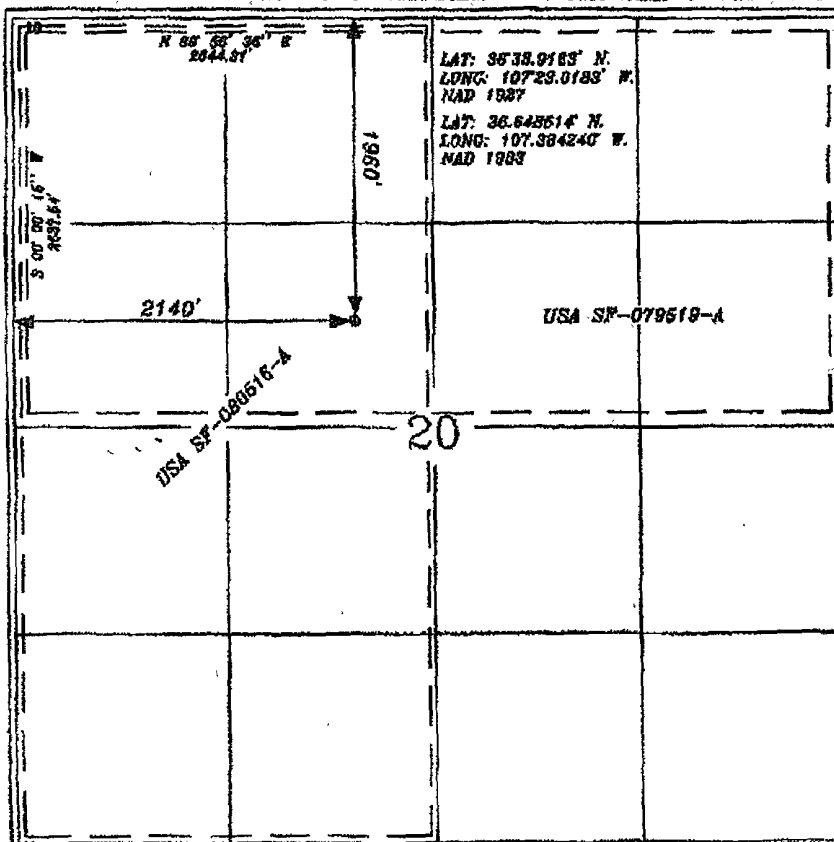
UL or lot no.	Section	Township	Range	Lot 1/4	Feet from the	North/South line	Feet from the	East/West line	County
F	20	28-N	5-W		1980'	NORTH	2140'	WEST	RIO ARriba

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot 1/4	Feet from the	North/South line	Feet from the	East/West line	County

¹² Dedicated Acres 320.00 DK-W/2 320.00 MV-N/2	¹³ Joint or Infill	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



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 mineral interest in the land underlying the proposed bottom hole location, or has a right to drill this well at the location pictured in a contract with an owner of such a mineral or a working interest, or in a customary pooling agreement or a customary pooling order heretofore entered by the Division.

[Signature]
Signature
Rhonda Rogers
Printed Name

8-10-07

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.

6-7-07
Date of Survey
[Signature]
Signature
G. L. Russell
Printed Name
15703
Certificate Number

Office

Energy, Minerals and Natural Resources

May 27, 2004

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-

30416

5. Indicate Type of Lease

STATE ☐FEE ☐

6. State Oil & Gas Lease No.

Federal lease USA SF-079519-A

7. Lease Name or Unit Agreement Name

San Juan 28-5 Unit

8. Well Number

54F

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 & GAS COMPANY LP

3. Address of Operator

3401 E. 30TH STREET, FARMINGTON, NM 87402

4. Well Location

Unit Letter F : 1960' feet from the North line and 2140' feet from the West line
Section 20 Township 28N Rng 5W NMPM County Rio Arriba

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

6740'

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:

N/A

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:

☐

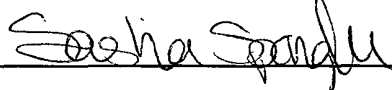
13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

New Drill, 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: spangs@conocophillips.com

Telephone No. 505-326-9568

For State Use Only

Deputy Oil & Gas Inspector,

District #3

APPROVED BY



TITLE

DATE

FEB 01 2008

Conditions of Approval (if any):

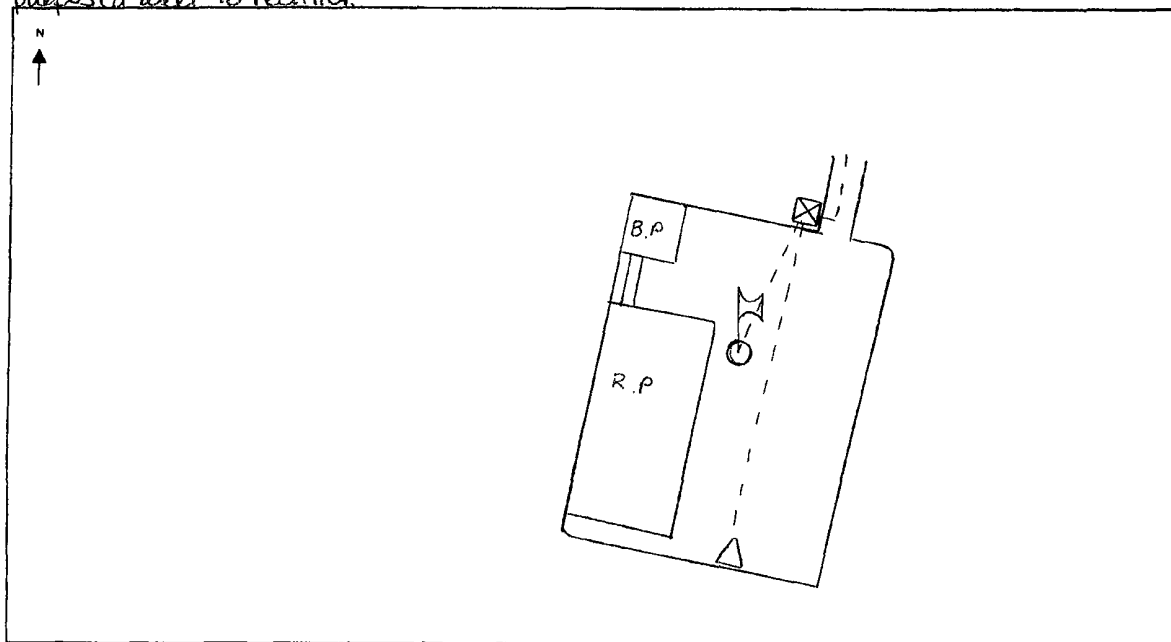


TECHNICAL SERVICES A CORROSION COMPANY

CATHODIC PROTECTION PLAN FOR NEW WELLS

WELL NAME SJ 28-5 #54F LEGALS F-20-28-5 COUNTY Rio Arriba

PURPOSED C.P. SYSYTEM: Drill GB on S edge of location. Set rectifier on the N outer edge (west side of access). Trench approx 2100' of A/C from existing rect. on SJ 28-5 #63 to rectifier. Trench approx 500' of positive cable from GB to rectifier. Trench approx 175 #8 neg cable from purposed well to rectifier.



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

COMMENTS: _____

NEAREST POWER SOURCE Rect. E side of SJ 28-5 #63 DISTANCE: 2100'

PIPELINES IN AREA: El Paso P/L on S side of main road to SJ 28-5 #63

TECHNICIAN: Michael J. Lopez DATE: 7/3/07

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 28-5 UNIT 54F

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7134		AFE \$:	
Field Name: hBR_SAN JUAN 28-5 UNIT		Rig: Aztec Rig 301		State: NM	County: RIO ARRIBA
Geologist:		Phone:		Geophysicist:	
Geoscientist: Riley, Brook		Phone: +1 505-324-6108		Prod. Engineer:	
Res. Engineer: McKee, Cory J		Phone: 505-326-9826		Proj. Field Lead:	
				Phone:	

Primary Objective (Zones):	
Zone	Zone Name
FRR	BASIN DAKOTA (PRORATED GAS)
RON	BLANCO MESAVERDE (PRORATED GAS)

Location: Surface		Datum Code: NAD 27		Straight Hole	
Latitude: 36.648606	Longitude: -107.383638	X:	Y:	Section: 20	Range: 005W
Footage X: 2140 FWL	Footage Y: 1960 FNL	Elevation: 6740	(FT)	Township: 028N	
Tolerance:					

Location Type: Year Round	Start Date (Est.): 1/1/2008	Completion Date:	Date In Operation:
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Formation Data:	Assume KB = 6756	Units = FT
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Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	200	6556	<input type="checkbox"/>			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 159 cuft. Circulate cement to surface.
OJAM	2886	3870	<input type="checkbox"/>			
KRLD	3037	3719	<input type="checkbox"/>			
FRLD	3162	3594	<input type="checkbox"/>			Possible Gas
PCCF	3600	3156	<input type="checkbox"/>			
LEWS	3761	2995	<input type="checkbox"/>			
Intermediate Casing	3861	2895	<input type="checkbox"/>			8 3/4" Hole. 7", 20 ppf, J-55, STC Casing. Cement with 870 cuft. Circulate cement to surface.
CHRA	4564	2192	<input type="checkbox"/>			
UCLFH	5152	1604	<input type="checkbox"/>			Gas
MASSIVE CLIFF HOUSE	5356	1400	<input type="checkbox"/>	668		Gas
MENF	5452	1304	<input type="checkbox"/>			
PTLK	5768	988	<input type="checkbox"/>			
MNCS	6244	512	<input type="checkbox"/>			
GLLP	6961	-205	<input type="checkbox"/>			
GRHN	7707	-951	<input type="checkbox"/>			
GRRS	7767	-1011	<input type="checkbox"/>			
TWLS	7821	-1065	<input type="checkbox"/>	2100		Gas
PAGU	7892	-1136	<input type="checkbox"/>			
CBRO	7908	-1152	<input type="checkbox"/>			
CBRL	7952	-1196	<input type="checkbox"/>			
ENCINAL	8036	-1280	<input type="checkbox"/>			TD T/ENCN 10.5
TOTAL DEPTH DK	8036	-1280	<input type="checkbox"/>			6-1/4" Hole. 4-1/2", 10.6/11.6 ppf, J-55 STC/LTC casing. Cement with 569 cuft. 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 28-5 UNIT 54F

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:

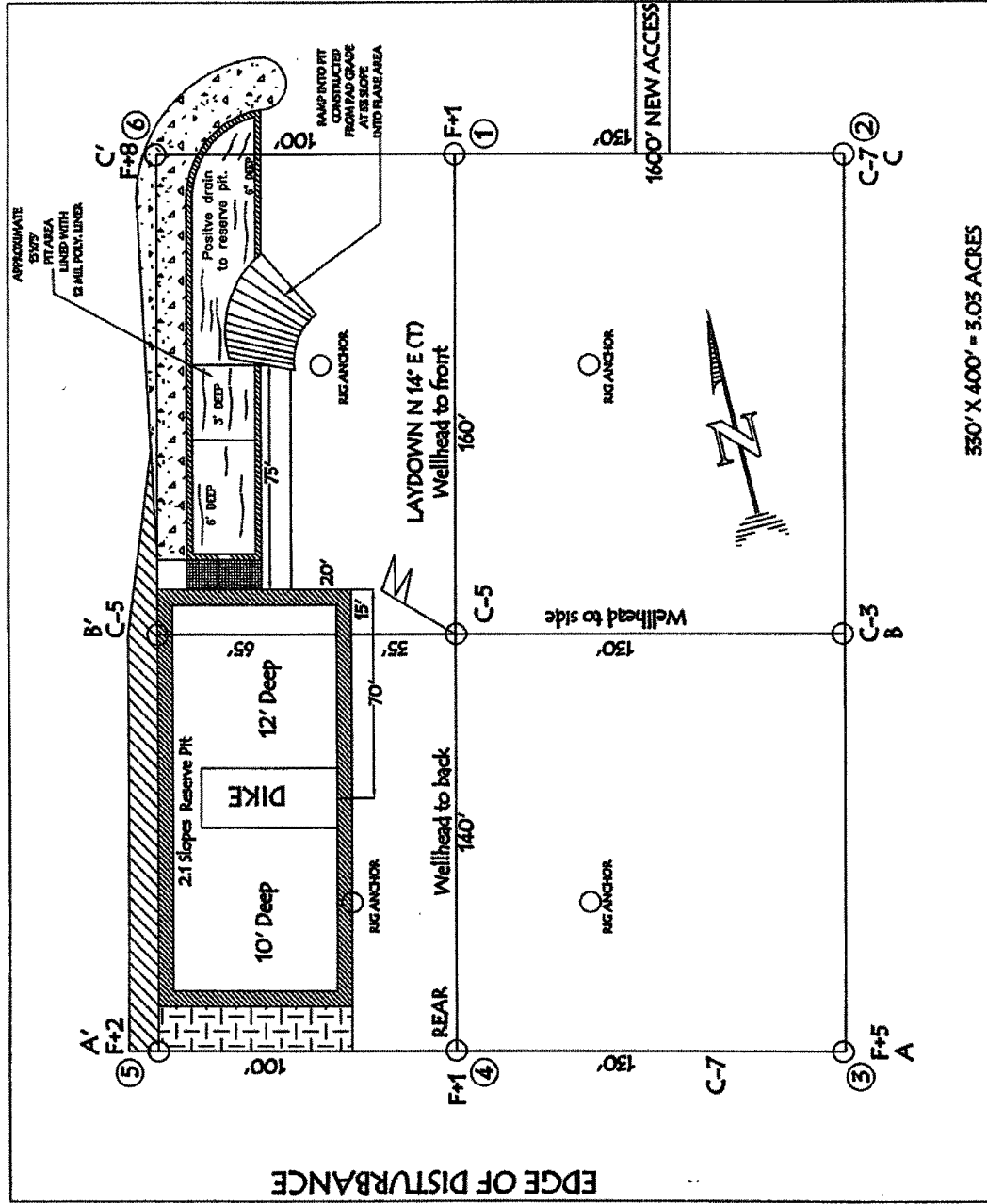
Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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Comments: Location/Tops/Logging - MVNM028N005W20NW2 DK 28N05W20NW2 Avoid D&C, no other twins, prefer F,E.

Zones - MVNM028N005W20NW2 DK 28N05W20NW2

General/Work Description - LEWIS FORMATION INCLUDED

BURLINGTON RESOURCES OIL & GAS COMPANY LP
SAN JUAN 28-5 UNIT 54F, 1960' FNL & 2140' FWL
SECTION 20, T-28-N, R-5-W, NMPM, RIO ARriba COUNTY, NM
GROUND ELEVATION: 6740', DATE: JUNE 6, 2007



RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW - 3' WIDE AND 1' ABOVE SHALLOW SIDE).

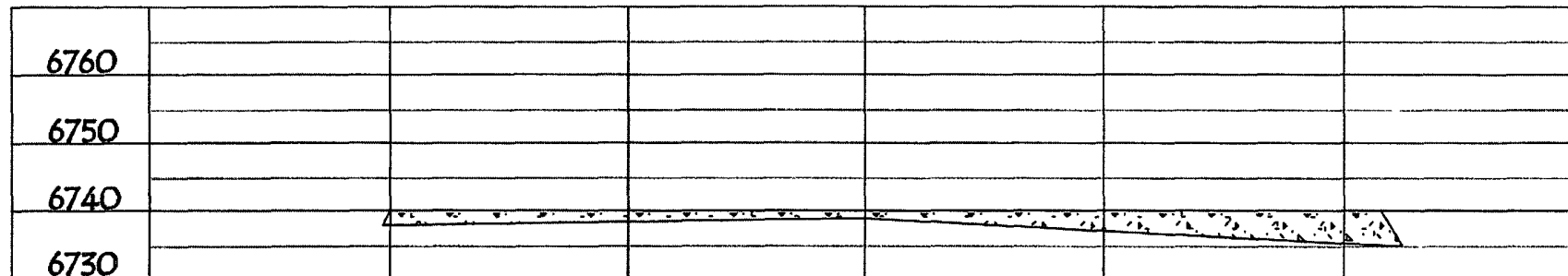
NOTE: VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.
 CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED
 PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

LAT: 36° 38.9163' N LONG: 107° 23.0183' W NAD27

BURLINGTON RESOURCES OIL & GAS COMPANY LP
SAN JUAN 28-5 UNIT 54F, 1960' FNL & 2140' FWL
SECTION 20, T-28- N, R-5-W, NMPM, RIO ARriba COUNTY, NM
GROUND ELEVATION: 6740', DATE: JUNE 6, 2007

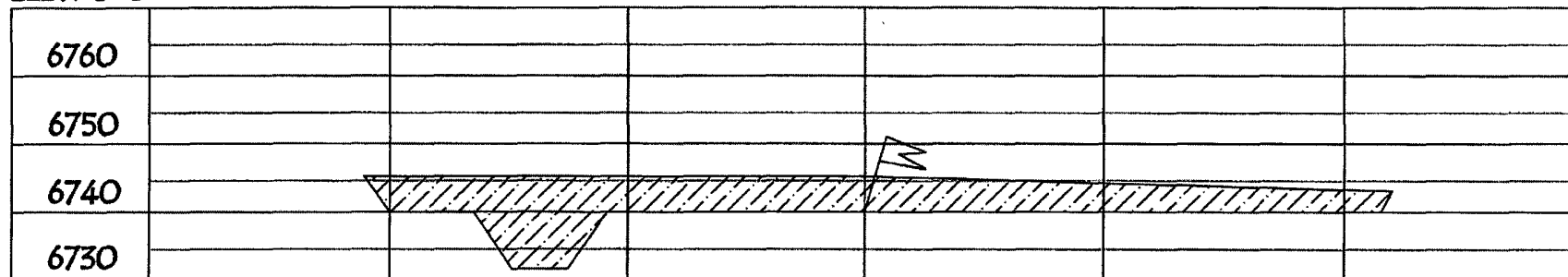
ELEV. A'-A

C/L



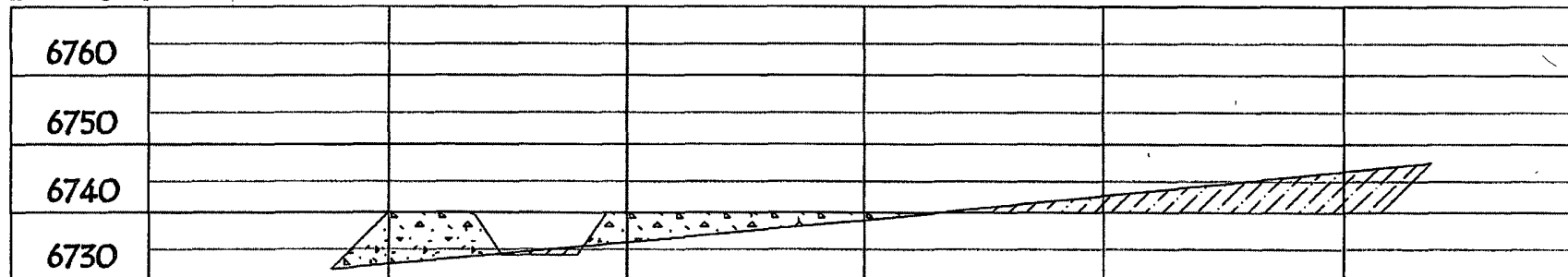
ELEV. B'-B

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
PIPLINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.