

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 02 2007

Bureau of Land Management
Farmington Field Office

5. Lease Number
USA SF-078208

Unit Reporting Number

RCVD DEC 14 '07

6. If Indian, All. or Tribe

OIL CONS. DIV.

1a. Type of Work
DRILL

1b. Type of Well
GAS

2. Operator
BURLINGTON
RESOURCES Oil & Gas Company, LP

7. Unit Agreement Name DIST. 3

NMNM-103095

3. Address & Phone No. of Operator
PO Box 4289, Farmington, NM 87499

(505) 326-9700

8. Farm or Lease Name
Sunray B

9. Well Number
#1F

4. Location of Well
Unit M (SWSW), 700' FSL & 860' FWL

10. Field, Pool, Wildcat
Basin Dakota

Latitude 36.807035 N.
Longitude 107.877875 W.

Lot 13/

11. Sec., Twn, Rge, Mer. (NMPM)
p Sec. 15, T30N, R10W

API # 30-045-34494

14. Distance in Miles from Nearest Town
7 Miles/Aztec

12. County
San Juan

13. State
NM

15. Distance from Proposed Location to Nearest Property or Lease Line
700'

16. Acres in Lease
637.110

17. Acres Assigned to Well
MV 319.34 (W/2)

18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease
103' from Sunray B 215

19. Proposed Depth
7559'

20. Rotary or Cable Tools
Rotary

21. Elevations (DF, FT, GR, Etc.)
6339' GL

22. Approx. Date Work will Start

23. Proposed Casing and Cementing Program
See Operations Plan attached

24. Authorized by: Jamie Goodwin
Jamie Goodwin (Regulatory Technician)

11/2/07
Date

PERMIT NO.

APPROVAL DATE

APPROVED BY D. Montez

TITLE AFM

DATE 12/13/07

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

NOTIFY AZTEC CDD 24 HRS.

PRIOR TO CASING & CEMENT

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

NMOCB

12/15

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



H₂S POTENTIAL EXIST

RECEIVED

NOV 02 2007

STRICT I
26 N. French Dr., Hobbs, N.M. 88240

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised October 12, 2005

STRICT II
01 West Grand Avenue, Artesia, N.M. 88210

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87605

Bureau of Land Management
Subsidiary Office
Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

STRICT III
100 Rio Brazos Rd., Aztec, N.M. 87410

STRICT IV
220 S. St. Francis Dr., Santa Fe, NM 87605

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-34494		*Pool Code 71599	*Pool Name BASIN DAKOTA
*Property Code 7563	*Property Name SUNRAY B		*Well Number 1F
*GRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP		*Elevation 6339'

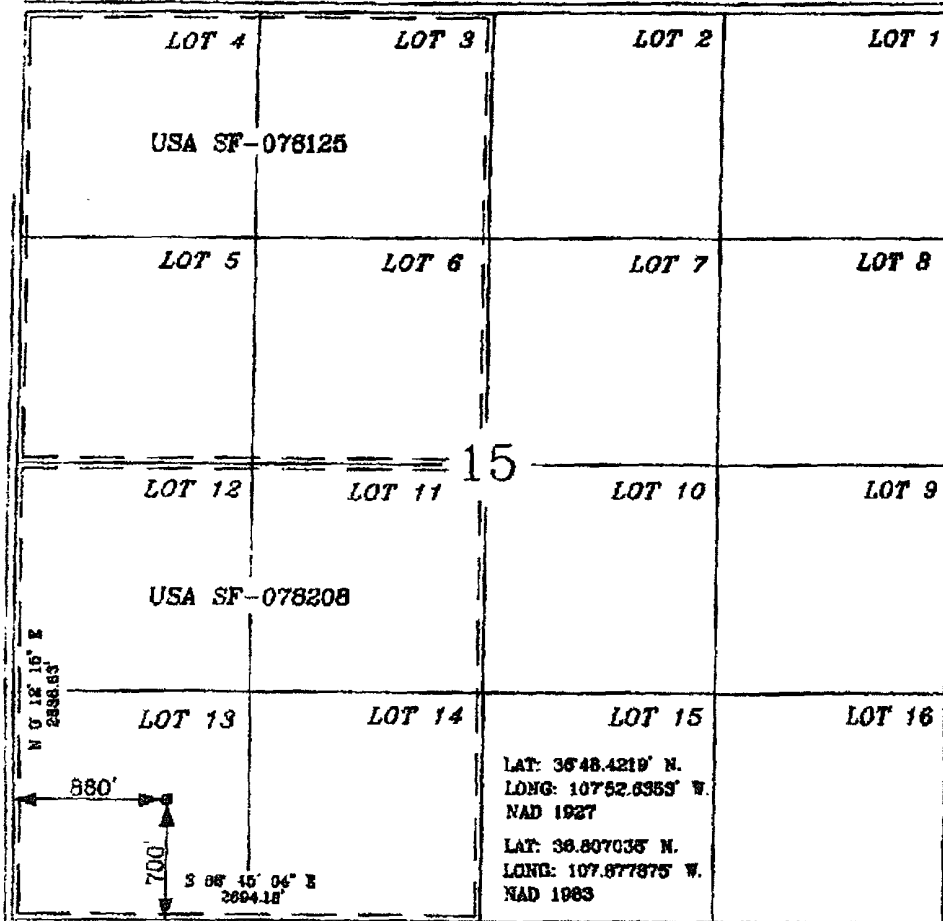
10 Surface Location

UL or lot no.	Section	Township	Range	Lot 12m	Feet from the	North/South line	Feet from the	East/West line	County
M	15	30-N	10-W	12	700'	SOUTH	860'	WEST	SAN JUAN

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot 12m	Feet from the	North/South line	Feet from the	East/West line	County
M									
*Dedicated Acres 319.34 W/2			*Joint or Infill		*Consolidation Code		*Order No.		

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 released 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.

Rhonda Rogers
Signature
Rhonda Rogers
Printed Name
8-6-07

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.

7-26-07
Date of Survey
Signature
NEW MEXICO
15703
Professional Surveyor
Certificate Number 15703

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

Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

WELL API NO.

30-045-34494

5. Indicate Type of Lease

STATE ☐FEE ☐

6. State Oil & Gas Lease No.

Federal Lease # USA-SF-078208

7. Lease Name or Unit Agreement Name

Sunray B

8. Well Number

#1F

9. OGRID Number

14538

10. Pool name or Wildcat

Basin Dekota

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 M : 700' feet from the South line and 860' feet from the West line
 Section 15 Township 30N Rng 10W NMPM County San Juan

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

6339'

Pit or Below-grade Tank Application

☐ or Closure ☐

Pit type

New Drill

Depth to Groundwater

450'

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, 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

Jamie Goodwin

TITLE

Regulatory Technician

DATE

11/2/2007

Type or print name

Jamie Goodwin

E-mail address:

goodwinj@conocophillips.com

Telephone No.

505-599-4018

For State Use Only

APPROVED BY

[Signature]

TITLE

Deputy Oil & Gas Inspector,
District #3

DATE

DEC 19 2007

Conditions of Approval (if any):

Vulnerable area - close pits according to Rule 50. F.1

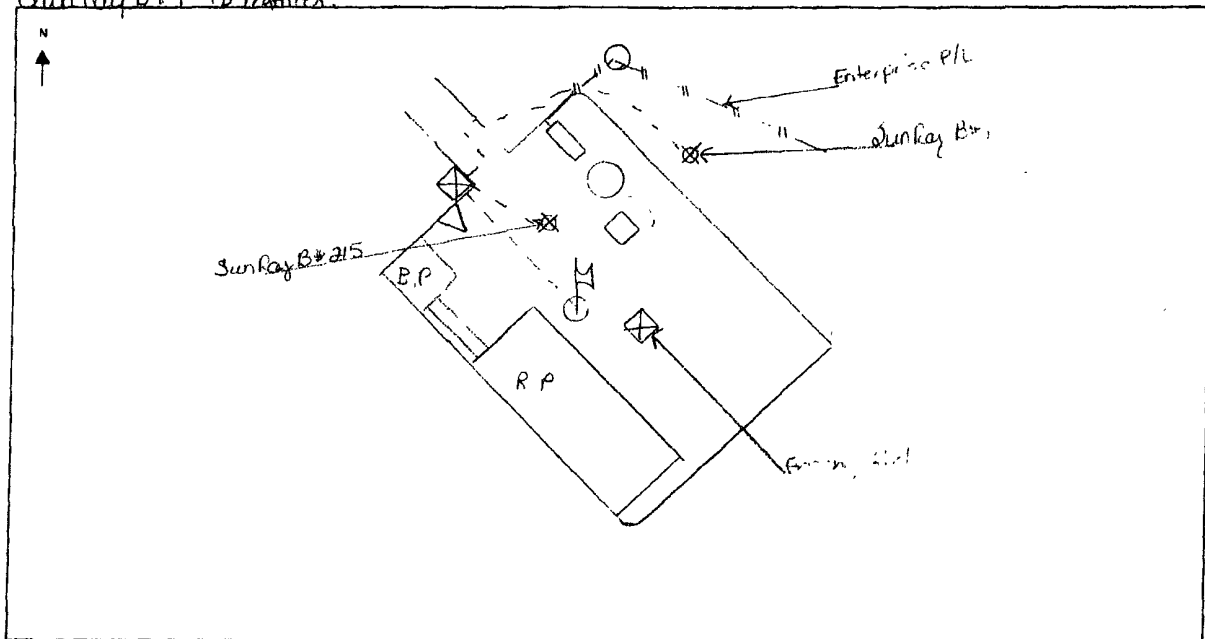


TECHNICAL SERVICES
A CORROSION COMPANY

CATHODIC PROTECTION PLAN FOR NEW WELLS

WELL NAME SunRay B #1F LEGALS M-15-30-10 COUNTY San Juan

PURPOSED C.P. SYSTEM: Drill G.B. on NW corner Upgrade and relocate existing rectifier to NW corner. Trench approx 75' of #8 neg from existing wellhead SunRay B #215 to rectifier. Trench approx 250' of #8 neg from proposed well to rectifier. Trench approx 600' of #8 neg from existing SunRay B #1 to rectifier.



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

COMMENTS: rectifier need upgrade + at least room for future neg.

NEAREST POWER SOURCE Existing Rect. SunRay B #215 DISTANCE: 300' approx
PIPELINES IN AREA: Enterprise P/L

TECHNICIAN: Michael Johnson DATE: 7/30/07

6 CR 5412 BLOOMFIELD, N.M. 87413
OFFICE: 505-634-0271 CELL: 505-793-6953

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SUNRAY B 1F

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7230		AFE \$: 674,988.16		
Field Name: hBR_SAN JUAN		Rig: Aztec Rig 184		State: NM County: SAN JUAN 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:		
Primary Objective (Zones):						
Zone		Zone Name				
FRR		BASIN DAKOTA (PRORATED GAS)				
Location: Datum Code: NAD 27						
Latitude: 36.806660		Longitude: -107.877899		X: Y: Section: 15 Range: 010W		
Footage X: 860 FWL		Footage Y: 700 FSL		Elevation: 6339 (FT) Township: 030N		
Tolerance:						
Location Type: Year Round		Start Date (Est.): 1/1/2009		Completion Date: Date In Operation:		
Formation Data: Assume KB = 6351 Units = FT						
Formation Call & Casing Points		Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG) BHT	Remarks
Surface Casing		200	6151	<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.
OJO ALAMO		1646	4705	<input type="checkbox"/>		
KIRTLAND		1713	4638	<input type="checkbox"/>		
FRUITLAND		2591	3760	<input type="checkbox"/>		Possible Gas
PICTURED CLIFFS		2974	3377	<input type="checkbox"/>		
LEWIS		3124	3227	<input type="checkbox"/>		
HUERFANITO BENTONITE		3691	2660	<input type="checkbox"/>		
CHACRA		3981	2370	<input type="checkbox"/>		
MASSIVE CLIFF HOUSE		4556	1795	<input type="checkbox"/>		Gas
MENELEE		4759	1592	<input type="checkbox"/>		
Intermediate Casing		4909	1442	<input type="checkbox"/>		8 3/4" Hole. 7", 20/23 ppf, J-55, STC/LTC Casing. Cement with 1106 cuft. Circulate cement to surface.
MASSIVE POINT LOOKOUT		5246	1105	<input type="checkbox"/>		
MANCOS		5591	760	<input type="checkbox"/>		
UPPER GALLUP		6471	-120	<input type="checkbox"/>		
GREENHORN		7209	-858	<input type="checkbox"/>		
GRANEROS		7262	-911	<input type="checkbox"/>		
TWO WELLS		7312	-961	<input type="checkbox"/>	1700	Gas
PAGUATE		7404	-1053	<input type="checkbox"/>		
CUBERO		7457	-1106	<input type="checkbox"/>		
ENCINAL		7496	-1145	<input type="checkbox"/>		
TOTAL DEPTH DK		7559	-1208	<input type="checkbox"/>		10.5* 6-1/4" Hole. 4-1/2", 10 5/8" 11.6 ppf, J-55 STC/LTC casing. Cement with 365 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 Business Unit

SUNRAY B 1F

DEVELOPMENT

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

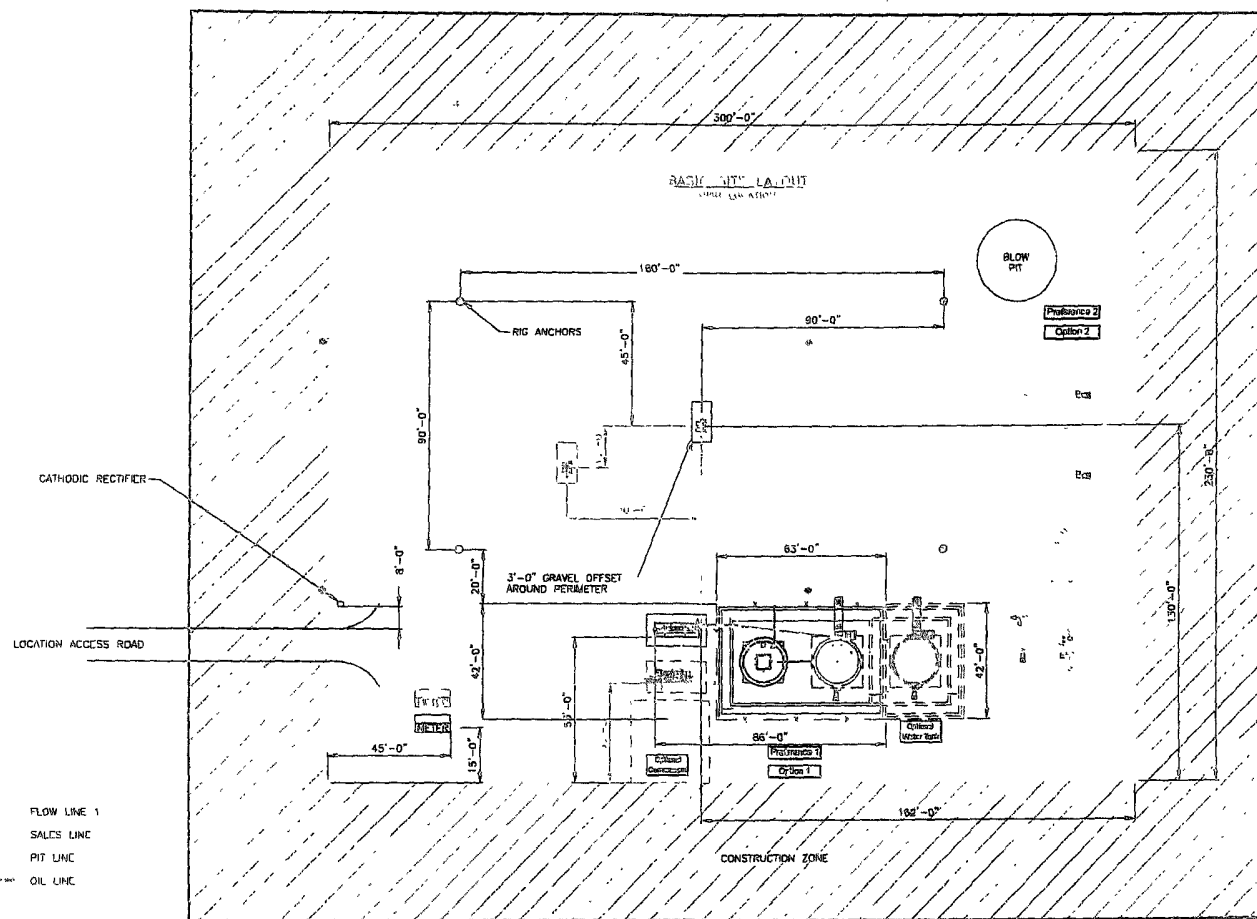
TD Logs:	<input type="checkbox"/> Triple Combo	<input type="checkbox"/> Dipmeter	<input type="checkbox"/> RFT	<input type="checkbox"/> Sonic	<input type="checkbox"/> VSP	<input type="checkbox"/> TDT	<input checked="" type="checkbox"/> Other
GR/CBL							

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

Comments: Location/Tops/Logging - DKNM030N010W15SW2 Avoid K, twin Sunray B 215 (UPE FTC at ~ 1350' WSW), else prefer M,L,N.

Zones - DKNM030N010W15SW2

General/Work Description - 08/29/07 Drilling: NEED LOGS and 85Q FOAM FRAC. (RWall/RAM)



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

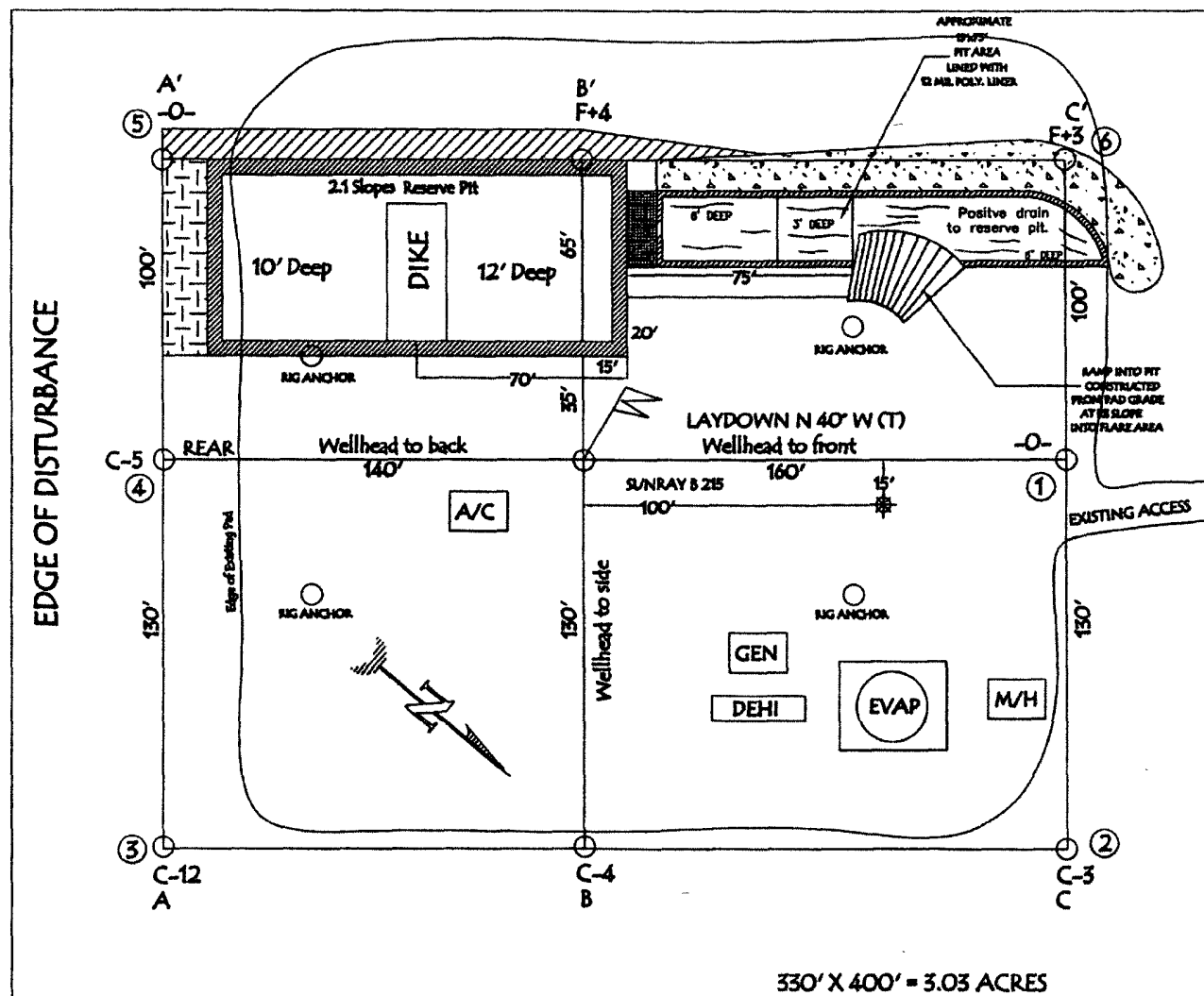
SHEET 1 OF 5

										ENGINEERING REVIEW			REFERENCE DRAWINGS			<div>CenocoPhillips</div>			CENOCO PHILLIPS HIGH PRESSURE 3 PHASE FACILITY DIAGRAM- SITE LAYOUT			
										DESCRIPTION	REVISION	DATE	NO	DESCRIPTION								
										PROCESS												
										MECHANICAL												
										PIPE												
										ELECTRICAL												
										P & C												
										CIVIL/STRUCTURAL												
										STANDARD												

Project: San Juan Business Unit Regulatory Location: Site Layout.dwg, 08/22/2007 - 08:39pm

BURLINGTON RESOURCES OIL & GAS COMPANY LP
SUNRAY B 1F, 700' FSL & 860' FWL
SECTION 15, T-30- N, R-10-W, NMPM, SAN JUAN COUNTY, NM
GROUND ELEVATION: 6339', DATE: JULY 11, 2007

RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW - 3' WIDE AND 1' ABOVE SHALLOW SIDE).
 BLOW PIT: OVERFLOW PIPE 4' ABOVE BOTTOM OF BLOW PIT.



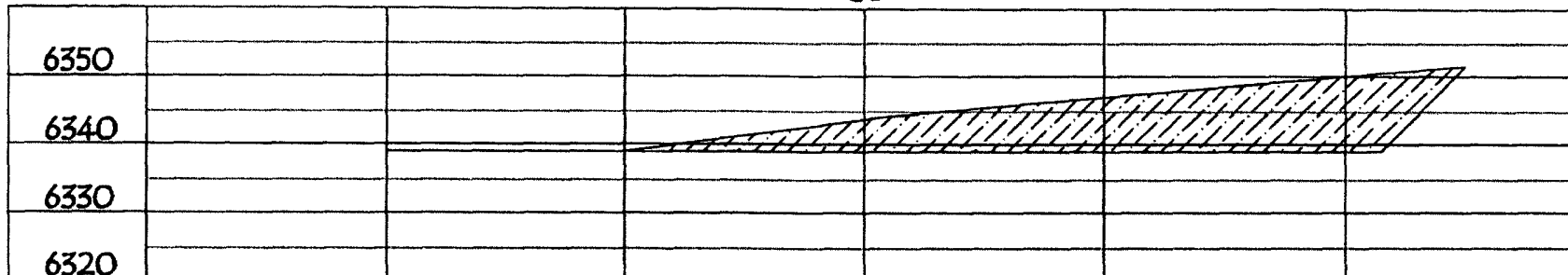
NOTE: VECTOR SURVEYS LLC IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.
 CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED
 PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

LAT: 36° 48.4219' N LONG: 107° 52.6353' W NAD27

BURLINGTON RESOURCES OIL & GAS COMPANY LP
 SUNRAY B 1F, 700' FSL & 860' FWL
 SECTION 15, T-30- N, R-10-W, NMPM, SAN JUAN COUNTY, NM
 GROUND ELEVATION: 6339', DATE: JULY 11, 2007

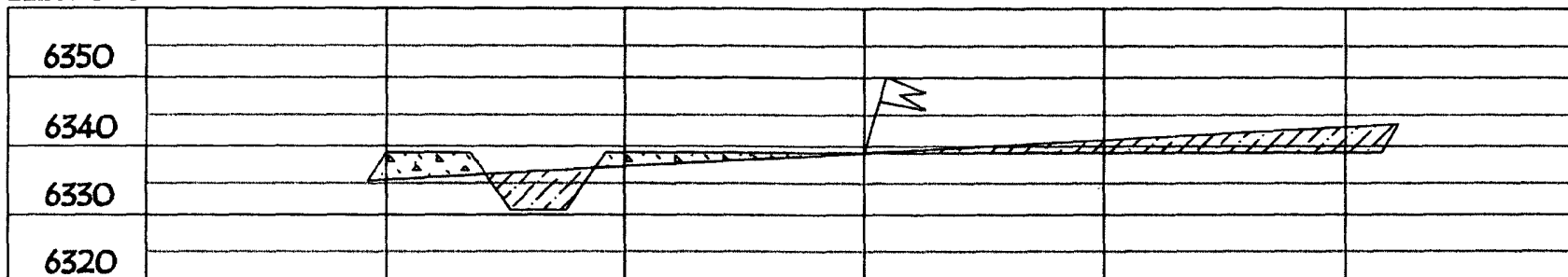
ELEV. A'-A

C/L



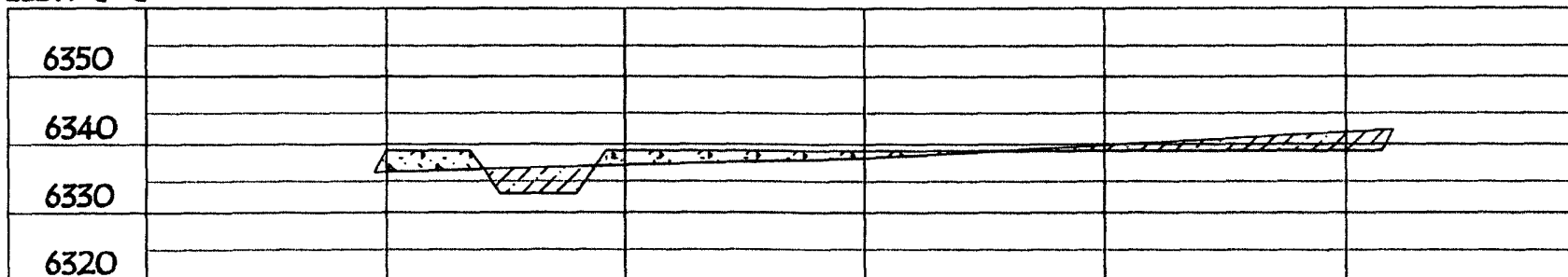
ELEV. B'-B

C/L



ELEV. C'-C

C/L



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