

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	RECEIVED FEB 29 2008 Bureau of Land Management Farmington Field Office	5. Lease Number SF-079491-A Unit Reporting Number NMNM-78409A-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 27-5 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 Surf: Unit G(SWNE), 1590' FNL & 1485' FEL Bottomhole: G(SWNE), 1630' FNL & 2320' FEL Surf: Latitude 36.59107° N Longitude 107.34183° W Btm: Latitude 36.59097° N Longitude 107.34471° W		9. Well Number #113F
		10. Field, Pool, Wildcat Basin Dakota
		11. Sec., Twn, Rge, Mer. (NMPM) 6 Sec. 10, T27N, R5W API # 30-039-30495
14. Distance in Miles from Nearest Town 75 miles/Blanco	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1485'		
16. Acres in Lease 960.00	17. Acres Assigned to Well 320.00 Acres - (N/2)	
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 100' from SJ 27-5 #10A - MV		
19. Proposed Depth 8517' TVD 8618' TMD	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 7241' GR	22. Approx. Date Work will Start JULY 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	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Crystal Walker</u> Crystal Walker (Regulatory Technician)		Date <u>2/29/08</u>

PERMIT NO.

APPROVAL DATE

APPROVED BY [Signature]

TITLE AFM

DATE 3/19/08

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

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

MAR 24 2008

NMOCD B

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

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

DISTRICT II
811 South First, Artesia, N.M. 88210

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

DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 15, 2000

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, NM 87505

RECEIVED

FEB 29 2008

Bureau of Land Management
Farmington Field Office

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- 30495		Pool Code 71599	Pool Name BASIN DAKOTA
Property Code 7454	Property Name SAN JUAN 27-5 UNIT		Well Number 113 F
OGRID No. 14538	Operator Name BURLINGTON RESOURCES O&G CO LP		Elevation 7241'

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
G	10	27N	5W		1590'	NORTH	1485'	EAST	RIO ARRIBA

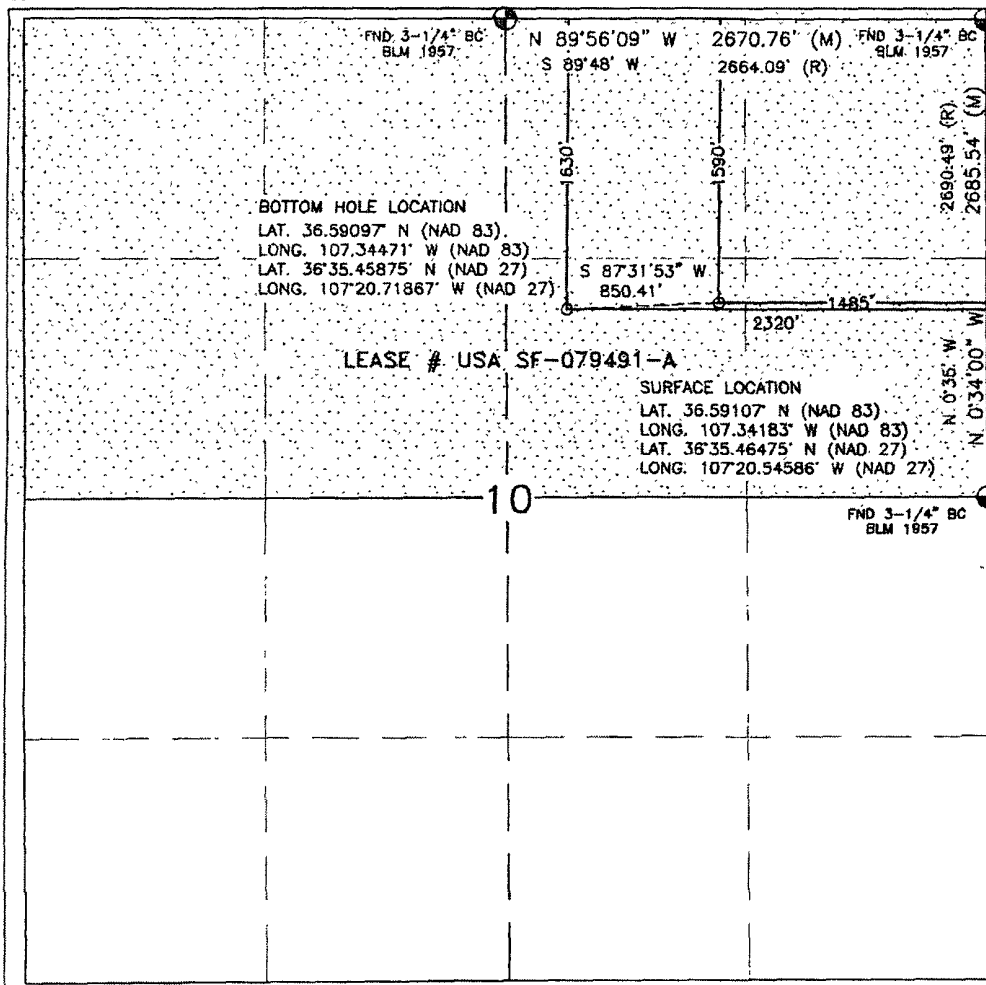
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	10	27N	5W		1630'	NORTH	2320'	EAST	RIO ARRIBA

¹² Dedicated Acres 320.00 Acres - (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

16



17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

Kandis Roland
Signature

Kandis Roland
Printed Name
Regulatory Technician

Title
6/22/07
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.

MAY 9, 2007

Date of Survey
Signature and Seal of Professional Surveyor:

David A. Russell
DAVID A. RUSSELL
NEW MEXICO
REGISTERED PROFESSIONAL LAND SURVEYOR
10201

DAVID RUSSELL
Certificate Number 10201

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- **30495**

5. Indicate Type of Lease

STATE ☐FEE ☐

6. State Oil & Gas Lease No.

SF-079491-A

7. Lease Name or Unit Agreement Name

San Juan 27-5 Unit

8. Well Number

#113F

9. OGRID Number

14538

10. Pool name or Wildcat

Basin Dakota

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 G : 1590 feet from the North line and 1485 feet from the East line
 Section 10 Township 27N Rng 5W NMPM County Rio Arriba

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

7241' GR

Pit or Below-grade Tank Application

☐ or Closure ☐

Pit type

Workover

Depth to Groundwater

>100'

Distance from nearest fresh water well

>1000'

Distance from nearest surface water

>1000'

Pit Liner Thickness:

12

mil

Below-Grade Tank:

Volume

4400

bbbls;

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, Unlined:

Burlington Resources proposes to construct a new drilling pit and an associated vent/flare pit. Based on Burlington's interpretation of the Ecosphere's risk ranking criteria, the new drilling pit and vent/flare pit will be an unlined pit 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 unlined, 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

2/28/2008

Type or print name

Crystal Walker

E-mail address:

crystal.walker@conocophillips.com

Telephone No.

505-326-9837

For State Use Only

APPROVED BY

TITLE

Deputy Oil & Gas Inspector,
District #3

DATE

MAR 24 2008

Conditions of Approval (if any):

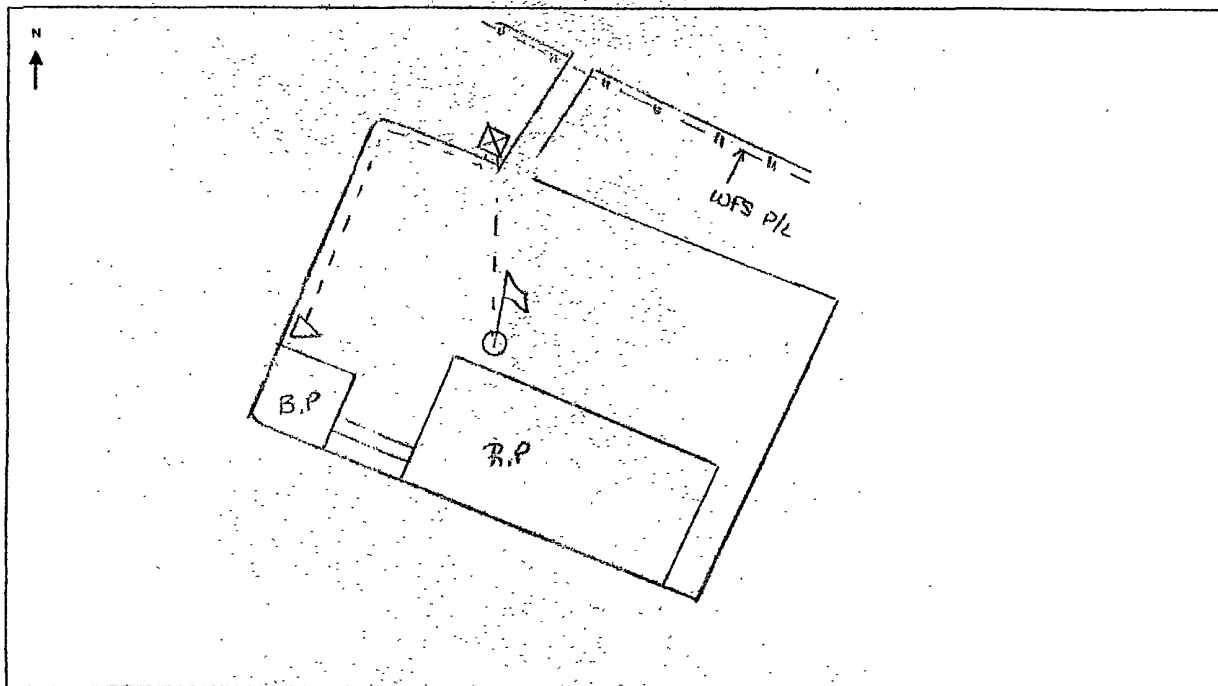


TECHNICAL SERVICES
A SOUTHERN COMPANY

CATHODIC PROTECTION PLAN FOR NEW WELLS

WELL NAME SJ 21-5 #113E LEGALS 6-10-27-5 COUNTY Rio Arriba

PURPOSED C.P. SYSTEM: Drill G.B. on SW edge of location and set solar on north outer edge
on west side of access road. Trench approx 250' of positive cable from G.B. to solar. Trench approx
175' of #8 neg. cable from wellhead to solar.



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

COMMENTS: _____

NEAREST POWER SOURCE N/A DISTANCE: _____

PIPELINES IN AREA: WFS P/L

TECHNICIAN: Michael J. Rogers DATE: 1/8/07

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-5 UNIT 113F

DEVELOPMENT

Lease:		AFE #: WAN.ZA2.6605		AFE \$: 1,030,900.78	
Field Name: hBR_SAN JUAN 27-5 UNIT		Rig: Aztec Rig 673		State: NM	County: RIO ARRIBA
Geologist:		Phone:		Geophysicist:	
Geoscientist: Head, Chip F		Phone: 505-326-9772		Prod. Engineer:	
Res. Engineer: Prabowo, Wahyu		Phone: 505-326-9797		Proj. Field Lead:	
Primary Objective (Zones):					
Zone	Zone Name				
R20076	DAKOTA(R20076)				
Location: Surface Datum Code: NAD 27 Deviated					
Latitude: 36.591061	Longitude: -107.341229	X:	Y:	Section: 10	Range: 005W
Footage X: 1485 FEL	Footage Y: 1590 FNL	Elevation: 7241	(FT)	Township: 027N	
Tolerance:					
Location: Bottom Hole Datum Code: NAD 27 Deviated					
Latitude: 36.590961	Longitude: -107.344109	X:	Y:	Section: 10	Range: 005W
Footage X: 2320 FEL	Footage Y: 1630 FNL	Elevation:	(FT)	Township: 027N	
Tolerance:					
Location Type: Restricted		Start Date (Est.): 1/1/2008		Completion Date:	
				Date In Operation:	
Formation Data: Assume KB = 7255 Units = FT					
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT
Surface Casing	200	7055	☐		
OJO ALAMO	3500	3755	☐		
KIRTLAND	3640	3615	☐		
FRUITLAND COAL	3910	3345	☐		Possible Gas
PICTURED CLIFFS	4085	3170	☐		
LEWIS	4221	3034	☐		
Intermediate Casing	4371	2884	☐		
HUERFANITO BENTONITE	4607	2648	☐		
CHACRA	5038	2217	☐		
MASSIVE CLIFF HOUSE	5850	1405	☐		Gas
MENEFEE	5897	1358	☐		
MASSIVE POINT LOOKOUT	6250	1005	☐		
MANCOS	6723	532	☐		
UPPER GALLUP	7419	-164	☐		
GREENHORN	8185	-930	☐		
GRANEROS	8248	-993	☐		
TWO WELLS	8277	-1022	☐	2450	Gas
UPPER CUBERO	8395	-1140	☐		
LOWER CUBERO	8438	-1183	☐		
OAK CANYON	8501	-1246	☐		
TOTAL DEPTH DK	8517	-1262	☐		
12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 170 cuft. Circulate cement to surface.					
8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 1007 cu. ft. Circulate cement to surface.					
6-1/4" Hole. 4-1/2", 11.6 ppf, J-55, LTC casing. Cement with 565 cu. ft. Circulate cement a minimum of 100' inside the previous casing string.					

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-5 UNIT 113F

DEVELOPMENT

ENCINAL	8517	-1262	☐	TD at top of Encinal. Estimated bottom perf 20' above TD.
Reference Wells:				
Reference Type	Well Name	Comments		
Production	27-5 113	SE10-27N-5W		

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

TD Logs:	☐ Triple Combo	☐ Dipmeter	☐ RFT	☐ Sonic	☐ VSP	☐ TDT	☒ Other
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GR/CBL

Mudlog from 100' above Greenhorn to TD - mudlogger will call TD.

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

ConocoPhillips or its affiliates

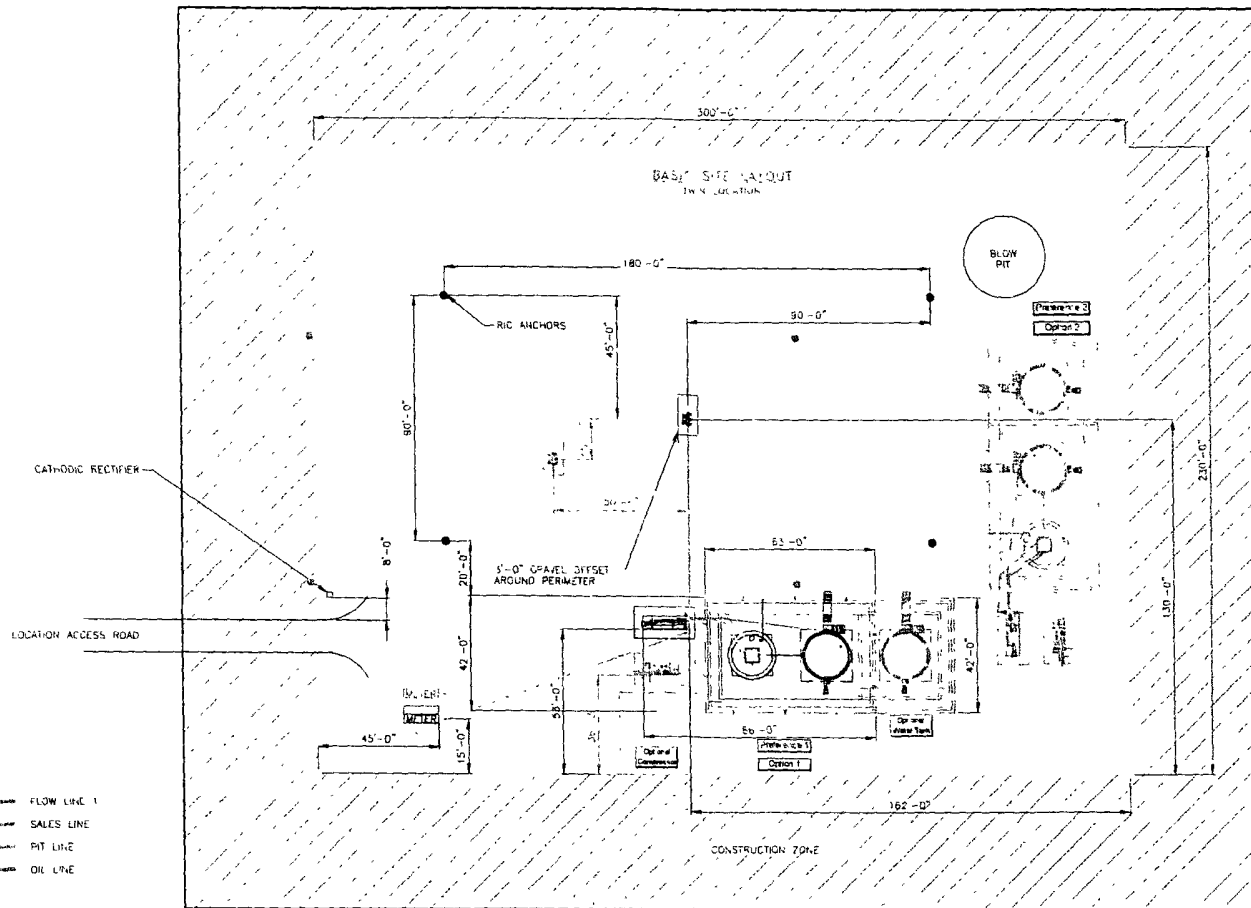
Planning Report

Database: EDM Central Planning
Company: ConocoPhillips SJB
Project: La Plata County, CO
Site: Russell's Site for Directional MV/DK wells
Well: SJ 27-5 #113F
Wellbore: SJ 27-5 #113F
Design: APD Directional Plan

Local Co-ordinate Reference: Well SJ 27-5 #113F
TVD Reference: Generic Rig RKB @ 7256 0ft
MD Reference: Generic Rig RKB @ 7256.0ft
North Reference: True
Survey Calculation Method: Minimum Curvature

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,583.3	3,500.0	Ojo		0.00	
3,727.9	3,640.0	Kirtland		0.00	
4,006.9	3,910.0	Fruitland		0.00	
4,185.4	4,085.0	Pictured Cliffs		0.00	
4,322.3	4,221.0	Lewis		0.00	
4,708.5	4,607.0	Huerfano Bentonite		0.00	
5,139.5	5,038.0	Chacra		0.00	
5,951.5	5,850.0	Mass. Cliffhouse		0.00	
5,998.5	5,897.0	Menefee		0.00	
6,351.5	6,250.0	Point Lookout		0.00	
6,824.5	6,723.0	Mancos		0.00	
7,520.5	7,419.0	Upper Gallup		0.00	
8,286.5	8,185.0	Greenhorn		0.00	
8,349.5	8,248.0	Graneros		0.00	
8,378.5	8,277.0	Two Wells		0.00	
8,496.5	8,395.0	Cubero		0.00	
8,539.5	8,438.0	Lower Cubero		0.00	
8,602.5	8,501.0	Oak Canyon		0.00	
8,618.5	8,517.0	TD		0.00	
8,618.5	8,517.0	Encinal		0.00	



FLOW LINE 1
 SALES LINE
 PIT LINE
 OIL LINE

SEE SHEET 3 & 4 FOR IMPROVEMENTS
 ALL UNDERGROUND PIPE IS TO BE BURIED A MIN. OF 5'-0" TOP

SHEET 1 OF 5

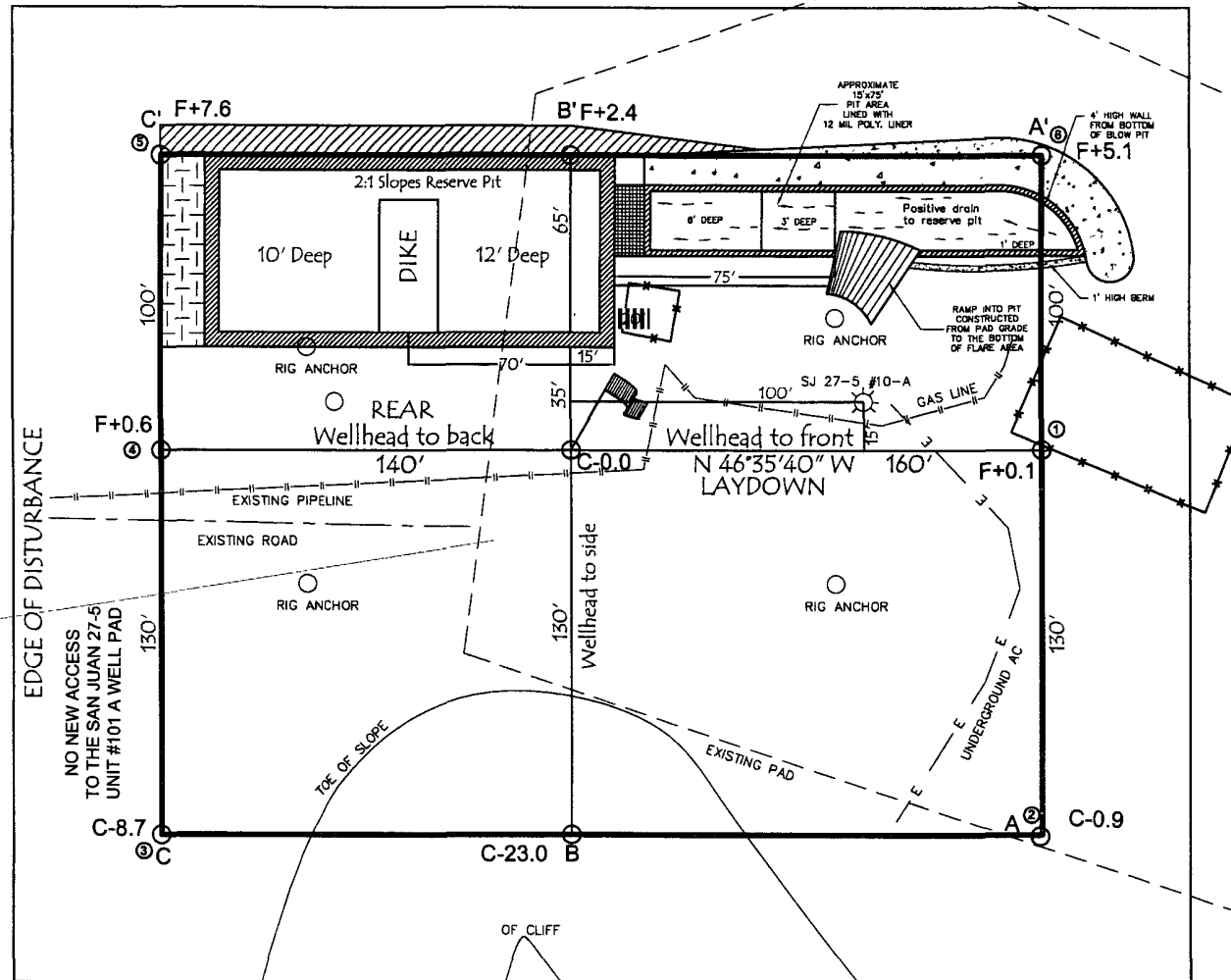
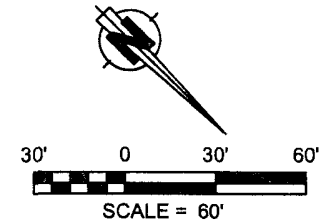
										ENGINEERING REVIEW			REFERENCE DRAWINGS				CONOCO-PHILLIPS HIGH PRESSURE 3 PHASE FACILITY DIAGRAM- SITE LAYOUT					
										PROCESS	DISCIPLINE	REVIEWED	DATE	AC			DESCRIPTION	CLIENT NO.	CLIENT APPRO.	TAPED DATE		
										MECHANICAL												
										PUMP												
										ELECTRICAL												
										I & C												
										CIVIL/STRUCTURAL												
										PROJECT												
DESCRIPTION										DATE	BY	CHECKED	ENG	OSC	PK	SAN JUAN BUSINESS UNIT						
										CLIENT NO.		CLIENT APPRO.		TAPED DATE								
										DRAWN BY		SCALE NONE		PERMISSION DATE 8/20/07		SHEET NO.						
										HP3PHASE-REV1						11 OF 5						

Path: c:\p00\h001\andrea\registory\San Juan Location Site Layout.dwg 06/28/2007 10:53:59am

LATITUDE: 36.59107°N
LONGITUDE: 107.34183°W
DATUM: NAD 83

BURLINGTON RESOURCES O&G CO LP

SAN JUAN 27-5 UNIT #113F
1590' FNL & 1485' FEL
LOCATED IN THE SW/4 NE/4 OF SECTION 10,
T27N, R5W, N.M.P.M.,
RIO ARriba COUNTY, NEW MEXICO
GROUND ELEVATION: 7241', NAVD 88
FINISHED PAD ELEVATION: 7240.8', NAVD 88



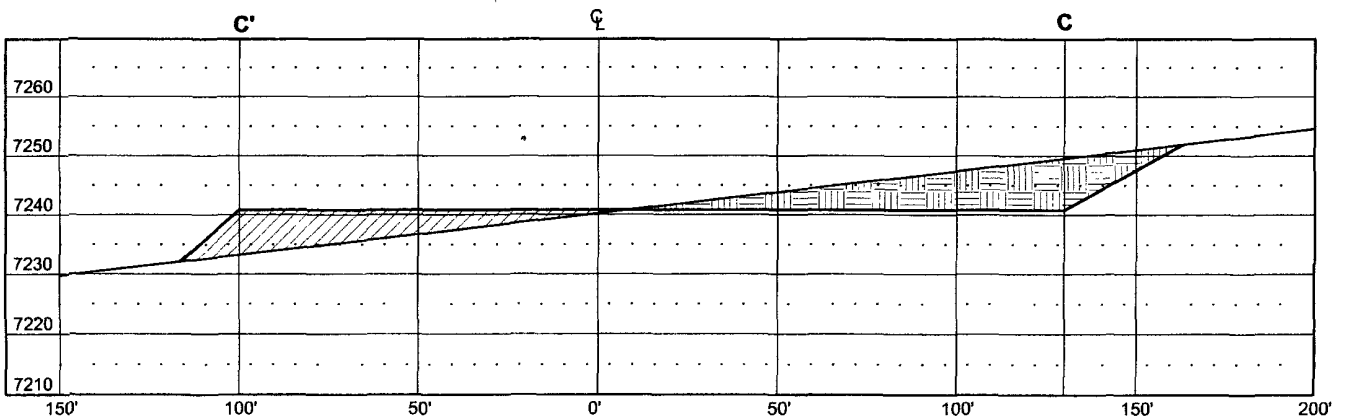
330' x 400' = 3.03 ACRES OF DISTURBANCE
SCALE: 1" = 60'
JOB No.: COP009
DATE: 06/04/07

NOTE:
RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW - 3' WIDE AND 1' ABOVE SHALLOW SIDE).
RUSSELL SURVEYING, INC. 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, IN CONSTRUCTION ZONE AND/OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.



Russell Surveying
1409 W. Aztec Blvd. #5
Aztec, New Mexico 87410
(505) 334-8637

FINISHED PAD ELEVATION: 7240.8', NAVD 88



Russell Surveying
1409 W. Aztec Blvd. #5
Aztec, New Mexico 87410
(505) 334-8637