

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RCVD DEC 10 '07
OIL CONS. DIV.
DIST. 3

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	RECEIVED SEP 18 2007 Bureau of Land Management Farmington Field Office	5. Lease Number NMSF-079393 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 27-5 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 C (NENW), 1240' FNL & 2055' FWL BH: Unit B (NWNE), 1060' FNL & 2295' FEL Surf: Lat-36.36.4272'N; Long-107.24.1130'W BH: Lat-36.36.4571'N; Long-107.23.8832'W	9. Well Number SJ 27-5 Unit #59N	
	10. Field, Pool, Wildcat Basin DK / Blanco MV 11. Sec., Twn, Rge, Mer. (NMPM) C Sec. 6, T27N, R05W API # 30-039- 30360	
14. Distance in Miles from Nearest Town 43 miles from Bloomfield,	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 310'		
16. Acres in Lease 2541.03	17. Acres Assigned to Well DK/MV - 319.69 acres E/2	
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 50' - MV SJ 27-5 #45A		
19. Proposed Depth 7730'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6490' GR	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached	HOLD C104 FOR <u>directional survey & as-</u> <u>drilled C-102</u> <u>11/18/09</u>	
24. Authorized by: <u>Patsy Clugston</u> Patsy Clugston, Regulatory Specialist	Date	

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY Wayne Townsend TITLE Acting AFM DATE 12-6-07

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 # - NMB-000015; and NMB-000089

HOLD C104 FOR directional survey and
As Drilled 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

NMOC

DEC 13 2007

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

NOTIFY AZTEC OGD 24 HRS.
PRIOR TO CASING & CEMENT

District I
PO Box 1980, Hobbs, NM 88241-1980

District II
PO Drawer DD, Artesia, NM 88211-0719

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised February 21, 1994
Instructions on back
Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

OIL CONSERVATION DISTRICT
PO Box 2088
Santa Fe, NM 87504-2088

RECEIVED
SEP 18 2007
Bureau of Land Management
Farmington Field Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 03-039-30360		*Pool Code 71599/72319	*Pool Name BASIN DAKOTA/BLANCO MV
*Property Code 7454	*Property Name SAN JUAN 27-5 UNIT		*Well Number 59N
*GRID No 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY, LP		*Elevation 6490'

¹⁰ Surface Location

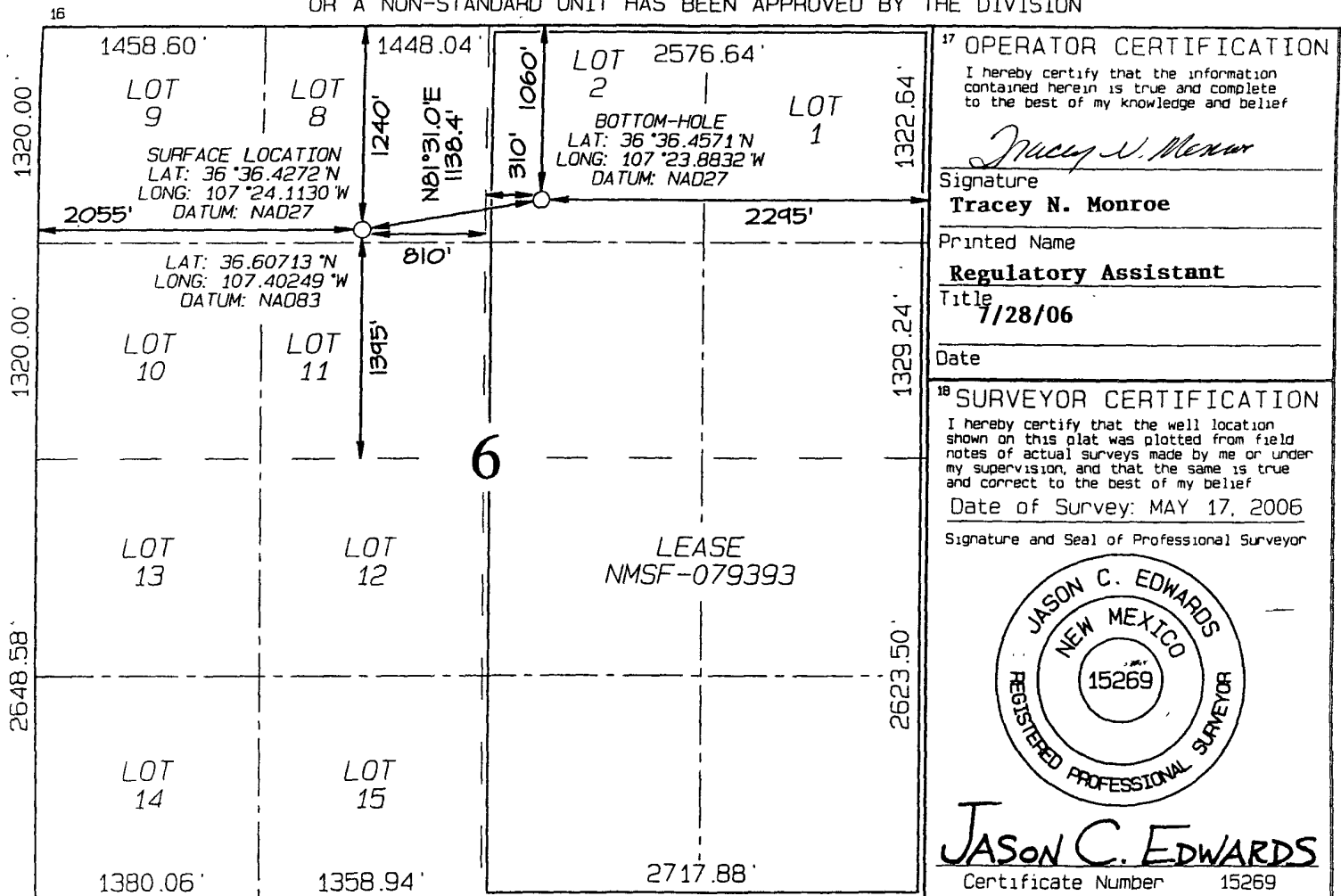
UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	6	27N	5W		1240	NORTH	2055	WEST	RIO ARriba

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
B	6	27N	5W		1060	NORTH	2295	EAST	RIO ARriba

¹² Dedicated Acres DK/MV 319.69 E2	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



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- 303600
5. Indicate Type of Lease	STATE ☐ FEE ☐
6. State Oil & Gas Lease No.	NMSF-079393
7. Lease Name or Unit Agreement Name	San Juan 27-5 Unit
8. Well Number	59N
9. OGRID Number	14538
10. Pool name or Wildcat	Blanco Mesaverde / 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 C : 1240' feet from the North line and 2055' feet from the West line
Section 6 Township 27N Rng 5W NMPM County Rio Arriba

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
6490'

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 ☐ 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: New Drill 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, 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 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 Rhonda Rogers TITLE Regulatory Technician DATE 3/16/2007

Type or print name Rhonda Rogers E-mail address: rrogers@br-inc.com Telephone No. 505-326-9700
For State Use Only

APPROVED BY [Signature] TITLE Deputy Oil & Gas Inspector, DATE DEC 13 2007
Conditions of Approval (if any): District #3

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-5 UNIT 59N

DEVELOPMENT

Lease:		AFE #: WAN.ZA2.2771/2772DK				AFE \$:	
Field Name: hBR_SAN JUAN 27-5 UNIT		Rig: XXX 2009 Directional		State: NM	County: RIO ARRIBA		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						
R20002	MESAVERDE(R20002)						
R20076	DAKOTA(R20076)						
Location: Surface Datum Code: NAD 27 Deviated							
Latitude: 36.607130	Longitude: -107.401930	X:	Y:	Section: 06		Range: 005W	
Footage X: 2055 FWL		Footage Y: 1240 FNL		Elevation: 6490 (FT)	Township: 027N		
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27 Deviated							
Latitude: 36.607618	Longitude: -107.398053	X:	Y:	Section: 6		Range: 5	
Footage X: 2295 FEL		Footage Y: 1060 FNL		Elevation: (FT)	Township: 27		
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2009		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6502 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	215	6287	☐			12-1/4" hole, 9-5/8" 32.3 ppf, H-40, STC casing. Cement w/ 170 cu. ft. Circulated Cmt to surface. Surface twinned with SJ 27-5 Unit 45A	
OJO ALAMO	2691	3811	☐				
KIRTLAND	2765	3737	☐				
FRUITLAND	3016	3486	☐				
PICTURED CLIFFS	3290	3212	☐				
LEWIS	3409	3093	☐				
Intermediate Casing	3509	2993	☐			8-3/4" hole. 7", 23.0 ppf, L-80, LT&C casing. Cement with 841 cu. ft. Circulate cement to surface.	
HUERFANITO BENTONITE	3849	2653	☐				
CHACRA	4241	2261	☐				
MASSIVE CLIFF HOUSE	4957	1545	☐				
MENEFEE	5124	1378	☐				
MASSIVE POINT LOOKOUT	5479	1023	☐	600			
MANCOS	5905	597	☐				
UPPER GALLUP	6634	-132	☐				
GREENHORN	7398	-896	☐	2500			
GRANEROS	7460	-958	☐			estimated bottom perf 7717' TVD (225' below T/Two Wells)	
TWO WELLS	7492	-990	☐				
UPPER CUBERO	7605	-1103	☐				
LOWER CUBERO	7648	-1146	☐				
ENCINAL	7729	-1227	☐				

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-5 UNIT 59N

DEVELOPMENT

Total Depth	7730	-1228	☐	6-1/4" hole. 4-1/2", 11.6 ppf, L-80, LT&C casing. Cement with 575 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.. Td is ~237' below top of Two Wells
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Reference Wells:		
Reference Type	Well Name	Comments
Intermediate	San Juan 27-5 Unit 59	NE6-27N-5W

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

TD Logs:	☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other
Mudlog from 100' above Greenhorn to TD.	

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

Comments: Location/Tops/Logging - DK 27N05W06NE2 MVNM027N005W06NE2

Zones - DK 27N05W06NE2 MVNM027N005W06NE2

General/Work Description - 4/5/06 DEFER FOR DD EVALU DUE TO ARCH & TERRAIN (WILL NEED RE'PKG'D)
LEWIS INCLUDED

ConocoPhillips or its affiliates
Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 27-5 #59N
Company:	ConocoPhillips Lower 48	TVD Reference:	Generic RKB @ 6505.0ft (Generic Rig)
Project:	San Juan Basin	MD Reference:	Generic RKB @ 6505.0ft (Generic Rig)
Site:	Russell's Site for Directional MV/DK wells	North Reference:	True
Well:	SJ 27-5 #59N	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 27-5 #59N		
Design:	ADP Directional Plan		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (d)	Dip Direction (d)	
2,902.2	2,691.0	Ojo		0.00		
2,983.3	2,765.0	Kirtland		0.00		
3,248.9	3,016.0	Fruitland		0.00		
3,528.1	3,290.0	Pictured Cliffs		0.00		
3,647.5	3,409.0	Lewis		0.00		
4,087.6	3,849.0	Huerfano Bentonite		0.00		
4,479.6	4,241.0	Chacra		0.00		
5,195.6	4,957.0	Mass. Cliffhouse		0.00		
5,362.6	5,124.0	Menefee		0.00		
5,717.6	5,479.0	Point Lookout		0.00		
6,143.6	5,905.0	Mancos		0.00		
6,872.6	6,634.0	Upper Gallup		0.00		
7,636.6	7,398.0	Greenhorn		0.00		
7,698.6	7,460.0	Graneros		0.00		
7,730.6	7,492.0	Two Wells		0.00		
7,843.6	7,605.0	Cubero		0.00		
7,886.6	7,648.0	Lower Cubero		0.00		
7,967.6	7,729.0	Encinal		0.00		
7,968.6	7,730.0	TD		0.00		

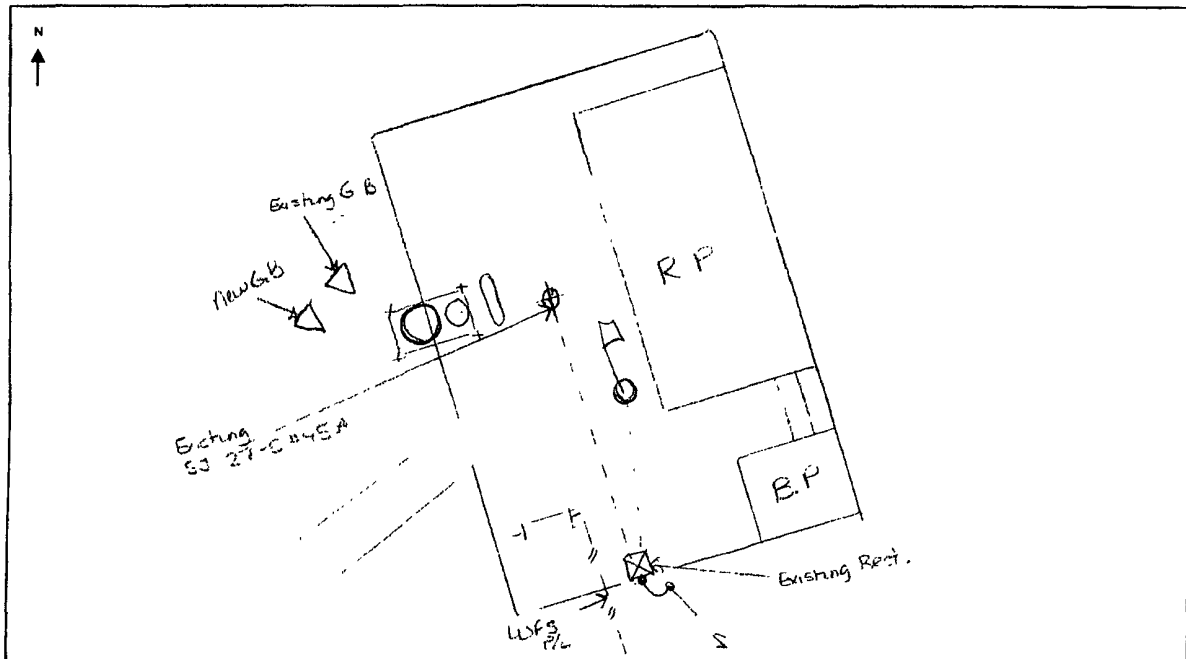


TECHNICAL SERVICES
A CORROSION COMPANY

CATHODIC PROTECTION PLAN FOR NEW WELLS

WELL NAME SJ 27-5 #59N LEGALS C-4-27-5 COUNTY Rio Arriba

PURPOSED C.P. SYSTEM: Upgrade existing rectifier and drill G.B. just sur. ex. existing G.B. and tie into existing system. Trench approx 200' w/ #8 galv cable from proposed wellhead to the existing rectifier.



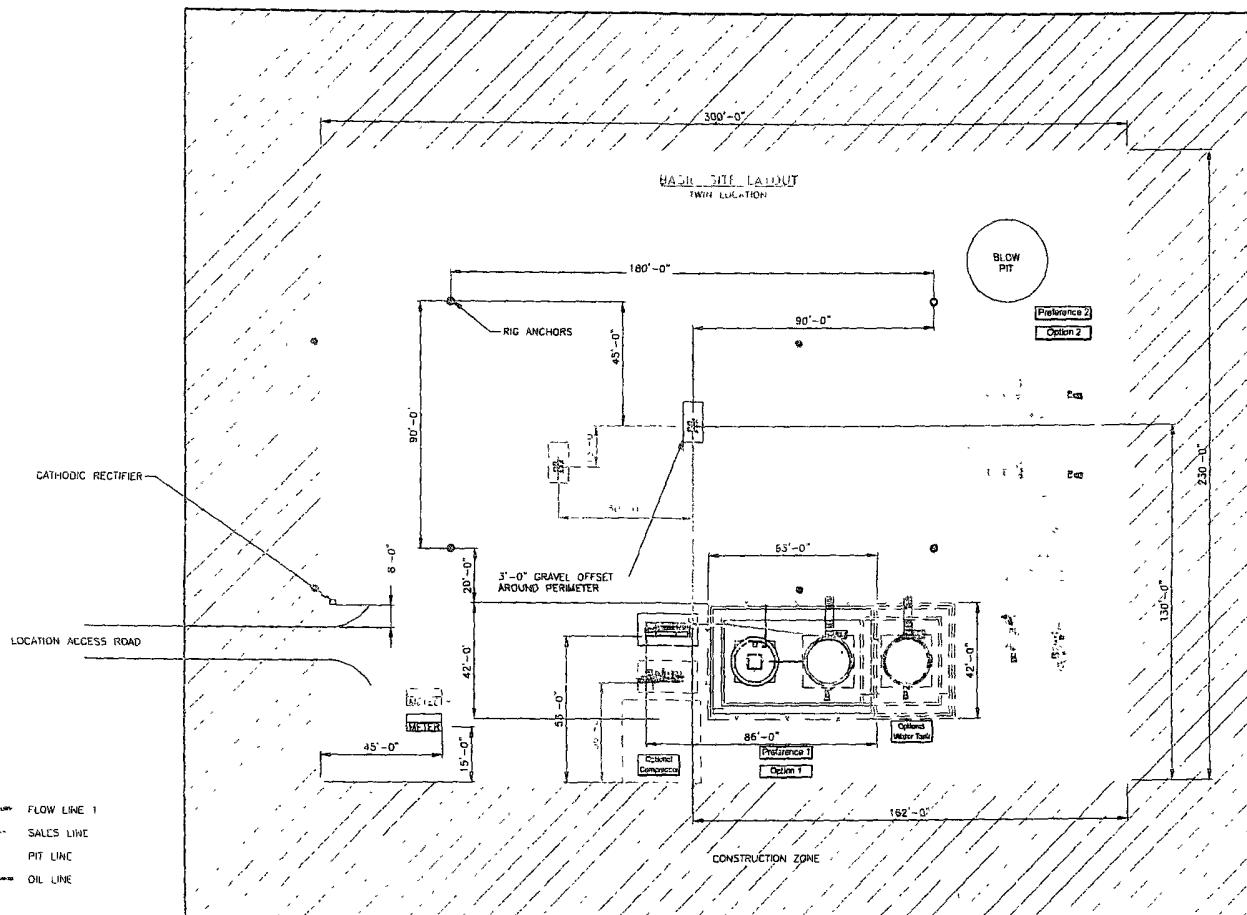
EXISTING WELLHEAD	METER HOUSE	G.B.	POWER SOURCE	CABLE	NEW WELL	OVERHEAD A.C.

COMMENTS: _____

NEAREST POWER SOURCE System Rect on SJ 27-5 #45A DISTANCE: same pad
PIPELINES IN AREA: WFS PL

TECHNICIAN: John H. Hanger DATE: 3/20/07

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



FLOW LINE 1
 SALES LINE
 PIT LINE
 OIL LINE

ALL SHEET 1 OF 5 FOR PHASE 3
 ALL UNDERGROUND PIPE IS TO BE BURIED 4' MIN. OR 3'-0" MIN.

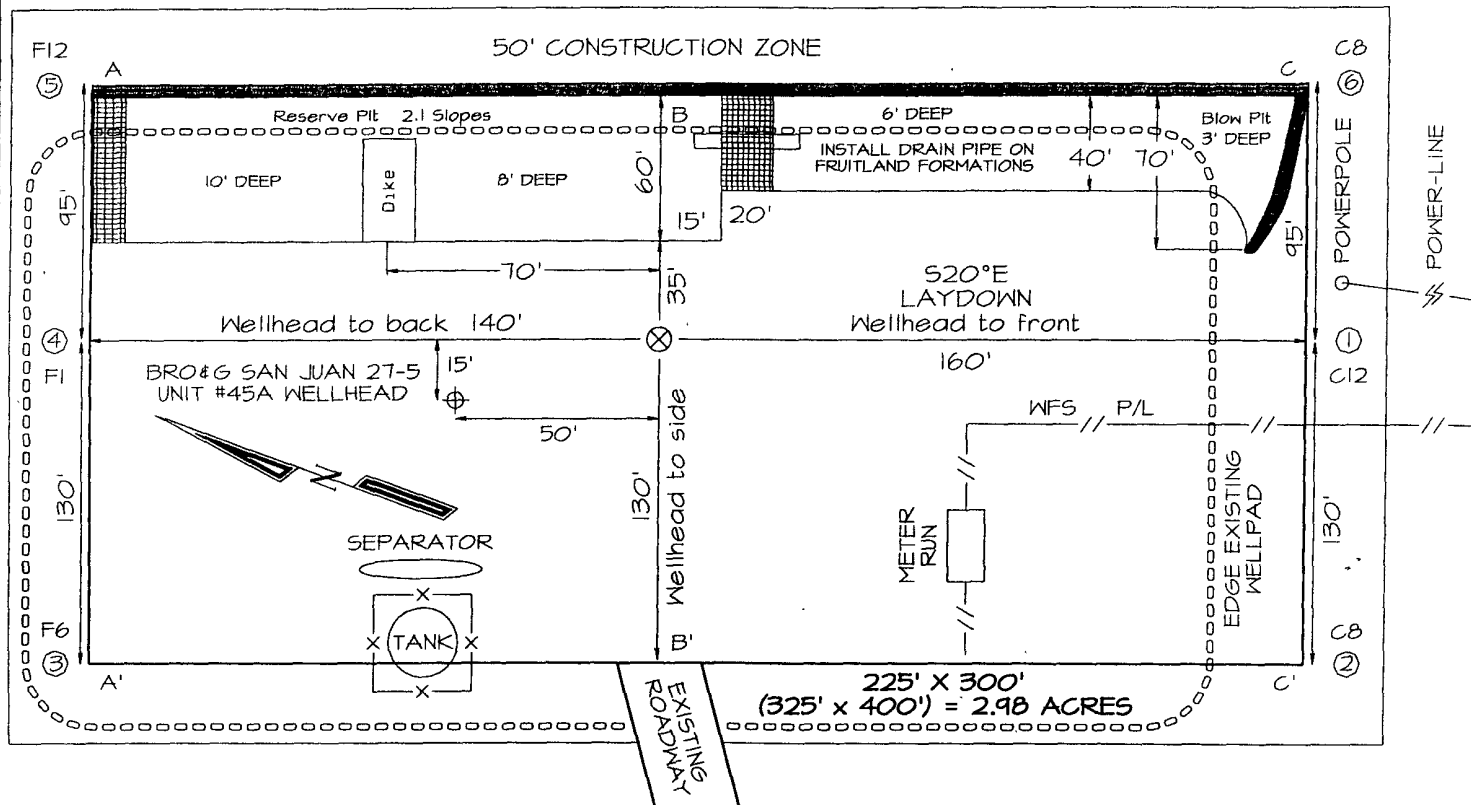
SHEET 1 OF 5

CONOCO PHILLIPS										HIGH PRESSURE 3 PHASE FACILITY DIAGRAM - SITE LAYOUT			
SAN JUAN BUSINESS UNIT										HP3PHASE-REV1			
ENGINEERING REVIEW										REFERENCE DRAWINGS			
DISCIPLINE										NO.			
REVIEWED										DESCRIPTION			
DATE													
PROCESS													
MECHANICAL													
ELECTRICAL													
I & C													
CIVIL/STRUCTURAL													
PROJECT													
DESCRIPTION										CLIENT NO.			
DATE										CLIENT NAME			
REV										SCALE			
DATE										CREATION DATE			
DATE										SHEET NO.			
DATE										1 OF 5			

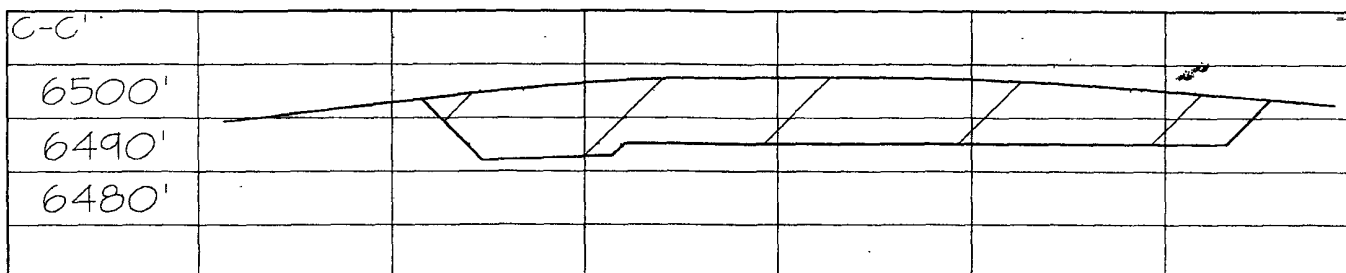
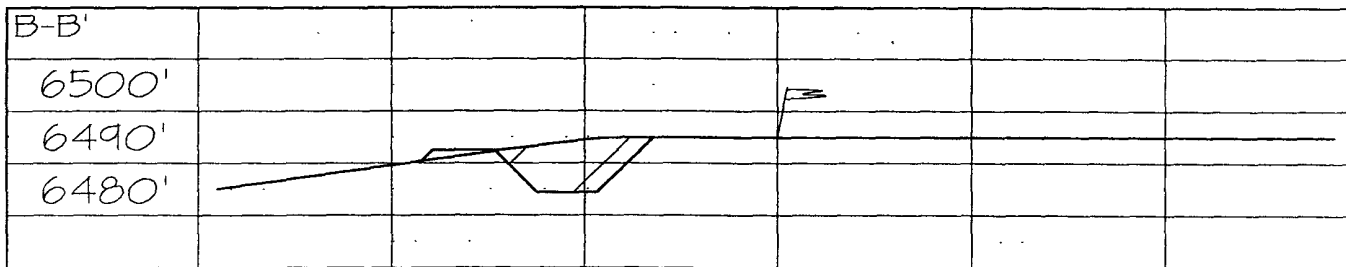
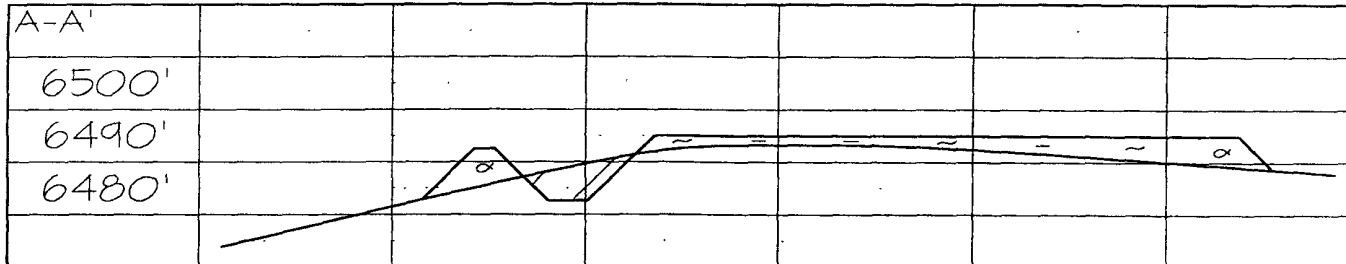
H:\Projects\San Juan Business Unit\San Juan Business Unit Site Layout.dwg, 06/28/2007 - 08:39pm

BURLINGTON RESOURCES OIL & GAS COMPANY, LP
SAN JUAN 27-5 UNIT #59N, 1240' FNL & 2055' FWL
SECTION 6, T27N, R5W, NMPM, RIO ARriba COUNTY, NM
GROUND ELEVATION: 6490' DATE: MAY 17, 2006

LATITUDE: 36.60713° N
LONGITUDE: 107.40249° W
 DATUM NAD1983



Reserve Pit Dike: to be 8' above Deep side (overflow - 3' wide and 1' above shallow side).
 Blow Pit overflow pipe halfway between top and bottom and to extend over plastic liner and into blow pit



Note: 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