

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RCVD AUG 24 '07

OIL CONS. DIV.

DIST. 3

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

2007 JUL 26 PM 3 55

1a. Type of Work
DRILL

RECEIVED
OTO FARMINGTON NM

5. Lease Number
USA SF-079391

Unit Reporting Number

NMNM-784098-MV 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 POW

3. Address & Phone No. of Operator
PO Box 4289, Farmington, NM 87499
(505) 326-9700

8. Farm or Lease Name

9. Well Number
#916

4. Location of Well
Surf: Unit F (SENW), 2541' FNL & 2452' FWL
BH: Unit K (NESW), 2655' FSL & 2300' FWL

Surf: Latitude 36° 35.3342 N
Longitude 107° 22.9164 W
BH: Latitude 36° 35.2667 N
Longitude 107° 22.9472 W

10. Field, Pool, Wildcat
Blanco MV/Basin DK

11. Sec., Twn, Rge, Mer. (NMPM)
Sec. 8, T27N, R5W

API # 30-039-30300

14. Distance in Miles from Nearest Town
35 mile/Blanco

12. County
Rio Arriba

13. State
NM

15. Distance from Proposed Location to Nearest Property or Lease Line
2300'

16. Acres in Lease

17. Acres Assigned to Well
MV/DK 320 (W/2)

18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease
52' from San Juan 27-5 Unit #112F

19. Proposed Depth
7826' TVD/7884' TMD

20. Rotary or Cable Tools
Rotary

21. Elevations (DF, FT, GR, Etc.)
6600' GL

22. Approx. Date Work will Start

23. Proposed Casing and Cementing Program
See Operations Plan attached

Pressure Observation well - will not produce

24. Authorized by: Rhonda Rogers
Rhonda Rogers (Regulatory Technician)

7-26-07
Date

PERMIT NO.

APPROVAL DATE

APPROVED BY D. Montoya

TITLE AFM

DATE 8/23/07

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

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

NMOCD

NOTIFY AZTEC OCD 24 HRS.
PRIORITY TO CASING & CEMENT
DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLYING WITH ATTACHED
GENERAL REQUIREMENTS.

RCVD AUG 24 '07

OIL CONS. DIV.

DIST. 3

2007 JUL 26 PM 3 55

DISTRICT I

1626 N. French Dr., Hobbs, N.M. 88240

DISTRICT II

1391 W. Grand Avenue, Artesia, N.M. 88210

DISTRICT III

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

DISTRICT IV

1230 S. St. Francis Dr., Santa Fe, N.M. 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, N.M. 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

*API Number 30-039-30300	*Pool Code 71599/72319	*Pool Name DAKOTA / MESA VERDE
*Property Code 7454 36684	*Property Name SAN JUAN 27-5 UNIT POW	*Well Number 916
*OGRD No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP.	*Elevation 6600

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
F	8	27 N	5 W		2541	NORTH	2452	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
K	8	27 N	5 W		2655	SOUTH	2300	WEST	RIO ARriba

*Dedicated Acres	*Joint or Infill	*Consolidation Code	*Order No.
320 W/2			

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 S 88°47'03" E 2646.33'	USA SF-079391	5208.18'	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 hereafter entered by the division. <i>Kandis Roland</i> 7/16/07 Signature Date Kandis Roland Printed Name
N 0°23'21" W 2452'	NAD 83 LAT: 36.588912° N LONG: 107.382543° W NAD 27 LAT: 36° 35.3342' N LONG: 107° 22.9164' W	S 1°25'51" E 2689.32'	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. 5/18/07 Date of Survey Signature and Seal of Professional Surveyor MARSHALL W. LINDEEN NEW MEXICO 17078 17078 Certificate Number
2616.10'	2300'	2680.33'	
N 0°35'07" W 2690.16'	NAD 85 LAT: 36.587787° N LONG: 107.383055° W NAD 27 LAT: 36° 35.2667' N LONG: 107° 22.9472' W	S 1°21'02" E 2670.27'	
	SECTION 8 ○ = SURFACE LOCATION ● = BOTTOM HOLE LOCATION		

State of New Mexico

Energy, Minerals and Natural Resources

Form C-103

May 27, 2004

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

WELL API NO.

30-039- 30300

5. Indicate Type of Lease

STATE ☐FEE ☐

6. State Oil & Gas Lease No.

Federal Lease # USA SF-079391

7. Lease Name or Unit Agreement Name

San Juan 27-5 Unit POW

8. Well Number

#916

9. OGRID Number

14538

10. Pool name or Wildcat

Blanco MV/Basin DK

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 : 2541' feet from the North line and 2452' feet from the West line
Section 8 Township 27N Rng 5W NMPM County Rio Arriba

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

6600'

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 ☐

SUBSEQUENT REPORT OF:

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

OTHER:

New Drill ☒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

TITLE

Regulatory Technician

DATE

7-26-07

Type or print name

Rhonda Rogers

E-mail address:

rogers@conocophillips.com

Telephone No.

505-599-4018

For State Use Only

APPROVED BY

TITLE

Deputy Oil & Gas Inspector,
District #3

DATE

AUG 30 2007

Conditions of Approval (if any):

PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 27-5 UNIT POW 916

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7151		AFE \$:	
Field Name: hBR_SAN JUAN 27-5 UNIT		Rig: Aztec Rig 730		State: NM ³ County: RIO ARriba	
Geologist:		Phone:		Geophysicist: 10 EADINGTON NM	
Geoscientist: Riley, Brook		Phone: +1 505-324-6108		Prod. Engineer:	
Res. Engineer: McKee, Cory J		Phone: 505-326-9826		Proj. Field Lead:	
Primary Objective (Zones):					
Zone	Zone Name				
R20002	MESAVERDE(R20002)				
R20076	DAKOTA(R20076)				
Location: Surface Datum Code: NAD 27 Deviated					
Latitude: 36.588903	Longitude: -107.381941	X:	Y:	Section: 08	Range: 005W
Footage X: 2452 FWL	Footage Y: 2541 FNL	Elevation: 6600	(FT)	Township: 027N	
Tolerance:					
Location: Bottom Hole Datum Code: NAD 27 Deviated					
Latitude:	Longitude:	X:	Y:	Section: 08	Range: 005W
Footage X: 2300 FWL	Footage Y: 2655 FSL	Elevation:	(FT)	Township: 027N	
Tolerance:					
Location Type: Restricted		Start Date (Est.):		Completion Date:	
		Date In Operation:			
Formation Data: Assume KB = 6616 Units = FT					
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT
Surface Casing	200	6416	☐		
OJAM	2720	3896	☐		
KRLD	2879	3737	☐		
FRLD	2961	3655	☐		Possible Gas
PCCF	3399	3217	☐		
LEWS	3577	3039	☐		
Intermediate Casing	3677	2939	☐		
HUERFANITO BENTONITE	3927	2689	☐		
CHRA	4344	2272	☐		
UCLFH	4950	1666	☐		Gas
MASSIVE CLIFF HOUSE	5046	1570	☐	702	Gas
MENF	5206	1410	☐		
PTLK	5553	1063	☐		
MNCS	6015	601	☐		
GLLP	6757	-141	☐		
GRHN	7500	-884	☐		
GRRS	7560	-944	☐		
TWLS	7592	-976	☐	2600	Gas
PAGU	7692	-1076	☐		
CBRO	7712	-1096	☐		
CBRL	7756	-1140	☐		
OAK CANYON	7826	-1210	☐		TD T/OKCN

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-5 UNIT POW 916

DEVELOPMENT

TOTAL DEPTH DK 7826 -1210 ☐ 2600

6-1/4" Hole. 4-1/2", 10.8/11.6 ppf, J-55 STC/LTC casing. Cement with 516 cuft. Circulate cement a minimum of 100' inside the previous casing string.

Reference Wells:		
Reference Type	Well Name	Comments
Production	27-45 #112F	NW 8-27N-5W

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

TD Logs:	☒ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other
	GR_CBL. Pressure Express MUDLOG 100' above GRHN to TD

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

Comments: Location/Tops/Logging - MVNM027N005W08SW5; DKNM027N005W08SW5 SHL as twin with #112F and BHL at 2655' FSL & 2300' FWL., Mud Drill well per RAM, MUDLOG 100' above GRHN to TD

Zones - MVNM027N005W08SW5; DKNM027N005W08SW5

ConocoPhillips

Survey Report

Company:	ConocoPhillips Lower 48	Local Co-ordinate Reference:	Site Monty's Site for directional MV/DK wells
Project:	San Juan Basin	TVD Reference:	WELL @ 6615.0ft (Original Well Elev)
Site:	Monty's Site for directional MV/DK wells	MD Reference:	WELL @ 6615.0ft (Original Well Elev)
Well:	SJ 27-5 #916 POW	North Reference:	True
Wellbore:	SJ 27-5 #916 POW	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM Central Planning

Planned Survey

Measured Depth (ft)	Inclination (d)	Azimuth (d)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (d/100ft)	Build Rate (d/100ft)	Turn Rate (d/100ft)
7,813.8	0.00	0.00	7,756.0	-410.0	-150.0	436.6	0.00	0.00	0.00
Lower Cubero									
7,883.8	0.00	0.00	7,826.0	-410.0	-150.0	436.6	0.00	0.00	0.00
Oak Canyon - TD - SJ 27-5 #916 POW - PCP									

Targets

Target Name	Dip Angle (d)	Dip Dir. (d)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (m)	Easting (m)	Latitude	Longitude
- hit/miss target									
- Shape									
SJ 27-5 #916 POW - K	0.00	0.00	3,677.0	-410.0	-150.0	-124.32	-47.52	30° 59' 20.454" N	109° 25' 45.817" W
- plan hits target									
- Point									
SJ 27-5 #916 POW - P	0.00	0.00	7,826.0	-410.0	-150.0	-124.32	-47.52	30° 59' 20.454" N	109° 25' 45.817" W
- plan hits target									
- Point									

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (d)	Dip Direction (d)
2,750.4	2,720.0	Ojo Alamo		0.00	
2,917.1	2,879.0	Kirtland		0.00	
3,003.0	2,961.0	Fruitland		0.00	
3,455.8	3,399.0	Pictured Cliffs		0.00	
3,634.8	3,577.0	Lewis		0.00	
3,984.8	3,927.0	Huerf. Bent.		0.00	
4,401.8	4,344.0	Chacra		0.00	
5,007.8	4,950.0	Upper Cliffhouse		0.00	
5,103.8	5,046.0	Mass. Cliffhouse		0.00	
5,263.8	5,206.0	Menefee		0.00	
5,610.8	5,553.0	Pt. Lookout		0.00	
6,072.8	6,015.0	Mancos Shale		0.00	
6,814.8	6,757.0	Gallup		0.00	
7,557.8	7,500.0	Greenhorn		0.00	
7,617.8	7,560.0	Graneros		0.00	
7,649.8	7,592.0	Two Wells		0.00	
7,749.8	7,692.0	Paguate		0.00	
7,769.8	7,712.0	Upper Cubero		0.00	
7,813.8	7,756.0	Lower Cubero		0.00	
7,883.8	7,826.0	Oak Canyon		0.00	
7,883.8	7,826.0	TD		0.00	

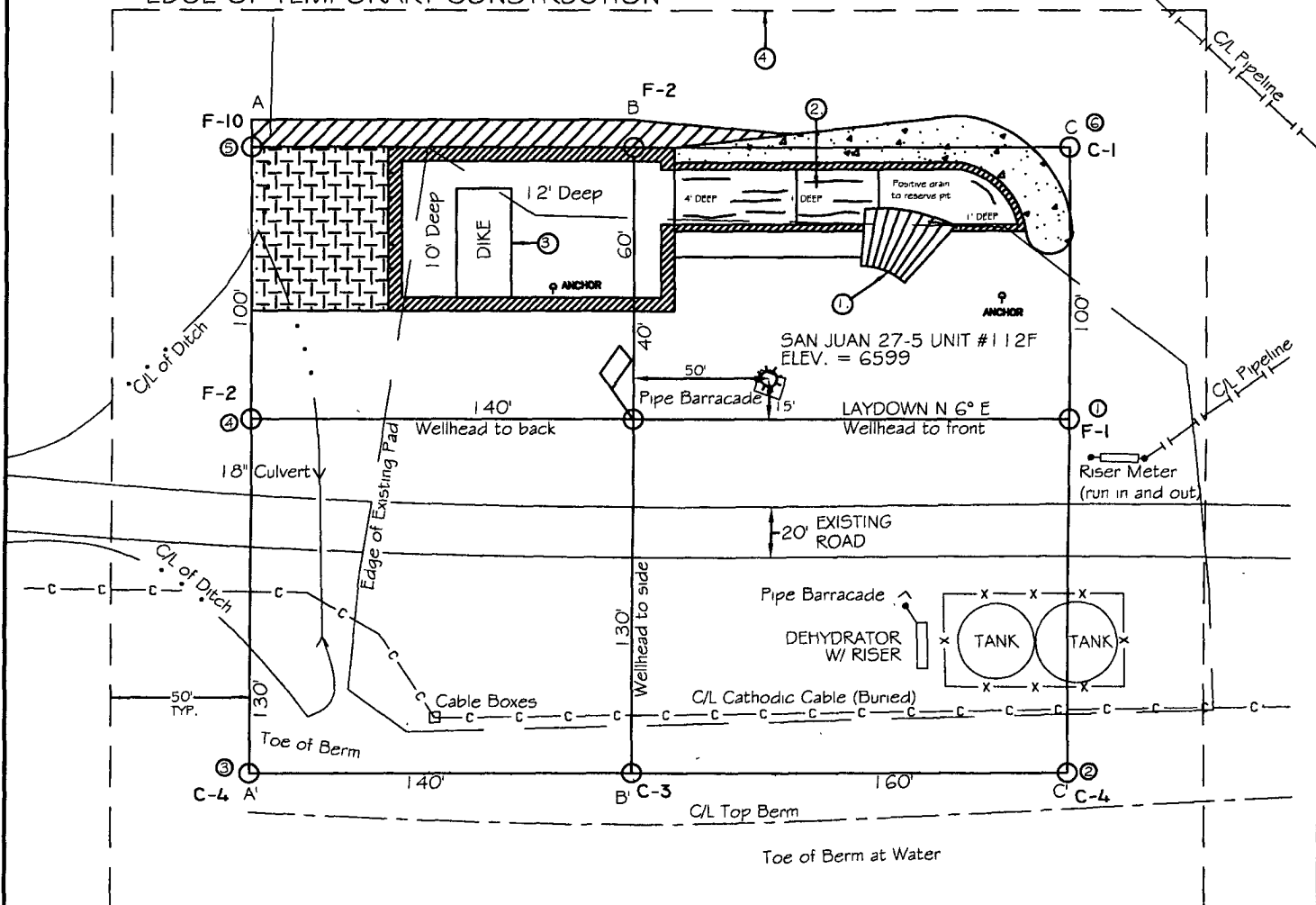
Checked By: _____ Approved By: _____ Date: _____

BURLINGTON RESOURCES OIL & GAS COMPANY LP.
 SAN JUAN 27-5 UNIT POW 916 - 2541' FNL & 2452' FWL (SURFACE)
 2655' FSL & 2300' FWL (BOTTOM)
 SECTION 8, T-27-N, R-5-W, N.M.P.M., RIO ARriba COUNTY, N.M.
 GROUND ELEVATION: 6600 - DATE: MAY 18, 2007

PAD CONST. SPECS.

1. RAMP INTO PIT CONSTRUCTED FROM PAD GRADE INTO FLARE AREA AT 5% SLOPE
2. APPROXIMATE 13'x75' PIT AREA LINED WITH 12 MIL POLYLINER
3. RESERVE PIT DIKE TO BE 8' ABOVE DEEP SIDE (OVERFLOW-3' WIDE AND 1' ABOVE SHALLOW SIDE)
4. EDGE OF TEMPORARY CONSTRUCTION DEFINED IN FIELD W/6 T-POST

EDGE OF TEMPORARY CONSTRUCTION



EXISTING DISTURBANCE = 1.07 ACRES
 WELLPAD = 0.51 ACRES
 TEMPORARY CONSTRUCTION = 1.45 ACRES
 TOTAL = 3.03 ACRES

LATITUDE: 36°35.3342' N LONGITUDE: 107°22.9164' W NAD 27



0 30 60
 SCALE: 1"=60'

NOTES.

1.) CONTRACTOR SHOULD CALL "ONE-CALL" FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELLPAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONST

2.) UNITED FIELD SERVICES, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.

SURVEYED: 5/18/07

REV. DATE: 6/06/07

APP. BY M.W.L.

DRAWN BY: H.S.

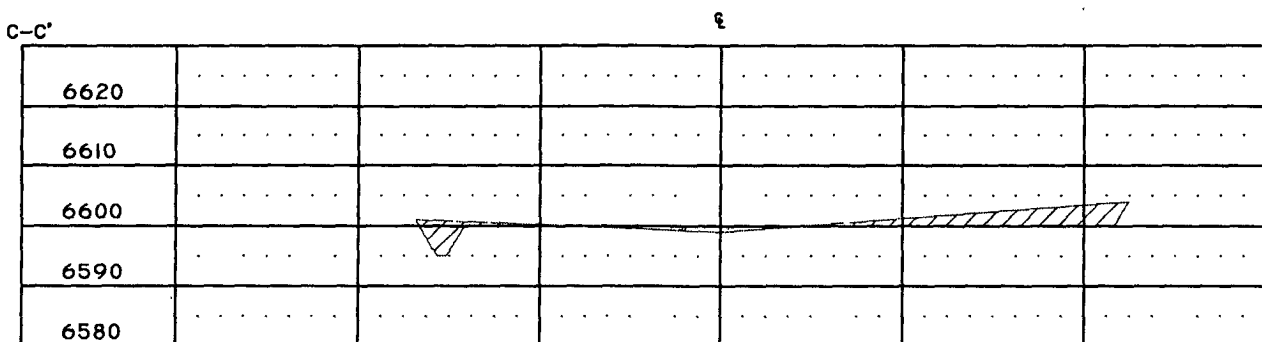
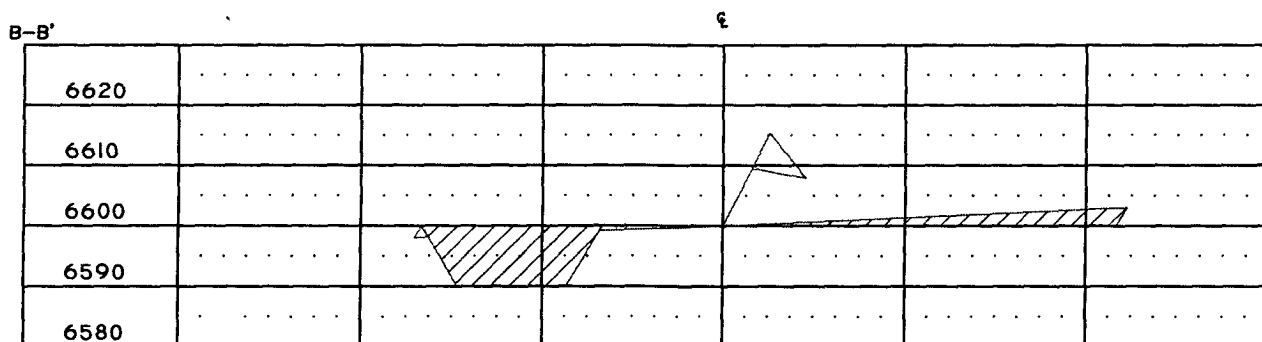
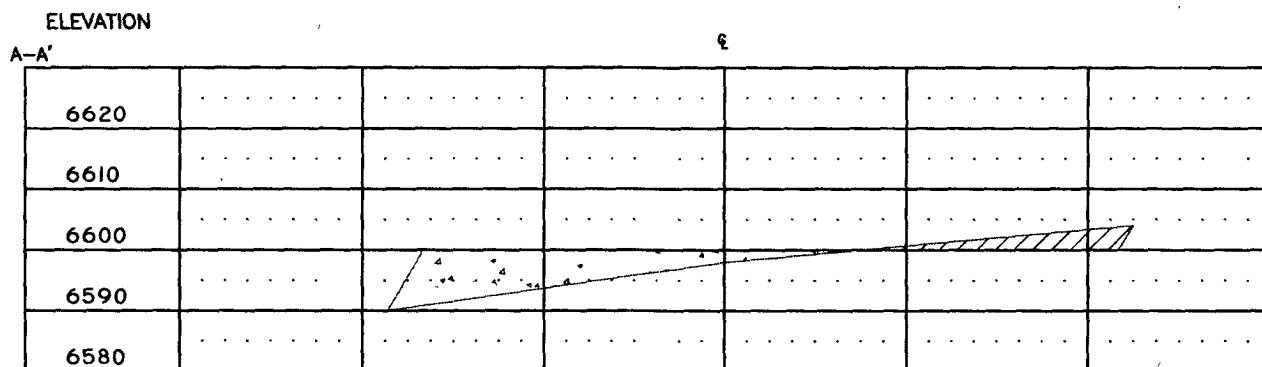
DATE DRAWN: 5/21/07

FILE NAME: 7688L01



P.O. BOX 3651
 FARMINGTON, NM 87499
 OFFICE: (505)334-0408

BURLINGTON RESOURCES OIL & GAS COMPANY LP.
SAN JUAN 27-5 UNIT POW 916 - 2541' FNL & 2452' FWL (SURFACE)
2655' FSL & 2300' FWL (BOTTOM)
SECTION 8, T-27-N, R-5-W, N.M.P.M., RIO ARRIBA COUNTY, N.M.
GROUND ELEVATION: 6600 - DATE: MAY 18, 2007



1" = 60' - HORIZ.
1" = 30' - VERT.

NOTES:

- 1.) CONTRACTOR SHOULD CALL "ONE-CALL" FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELLPAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONST
- 2.) UNITED FIELD SERVICES, INC IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.

SURVEYED: 5/18/07	REV. DATE: 6/06/07	APP. BY M.W.L.
DRAWN BY: H.S.	DATE DRAWN: 5/21/07	FILE NAME: 7688C01
		
P.O. BOX 3651 FARMINGTON, NM 87499 OFFICE: (505)334-0408		