

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	2007 JUL 26 PM 3 58 RECEIVED 070 FARMINGTON NM	5. Lease Number USA SF-079391 Unit Reporting Number NmNM-78409B-MV NmNM78409A-DK
1b. Type of Well GAS		6. If Indian, All. or Tribe
2. Operator <b>BURLINGTON</b> 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
		9. Well Number #907
4. Location of Well Surf: Unit G(SWNE), 1595' FNL & 1860' FEL BH: Unit H(SENE), 1675' FNL & 1015' FEL  Surf: Latitude 36° 35.4863 N Longitude 107° 22.7285 W BH: Latitude 36° 35.4697 N Longitude 107° 22.5554 W		10. Field, Pool, Wildcat Blanco MV/Basin DK  11. Sec., Twn, Rge, Mer. (NMPM) Sec. 8, T27N, R5W G API # 30-039-30302
14. Distance in Miles from Nearest Town 36 mile/Blanco	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1015'		
16. Acres in Lease	17. Acres Assigned to Well MV/DK 320 (E/2)	
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 52' from San Juan 27-5 Unit #70		
19. Proposed Depth 7861' TVD/8021' TMD	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6625' GL	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		RCVD SEP 25 '07 OIL CONS. DIV.
24. Authorized by: <u>Rhonda Rogers</u> Rhonda Rogers (Regulatory Technician)	7-25-07 Date	BST. 3

PERMIT NO.                      APPROVAL DATE                       
APPROVED BY [Signature] TITLE APM DATE 9/24/07

Archaeological Report attached

Threatened and Endangered Species Report attached

NOTE: This format is issued in lieu of U.S. BLM Form 3160-

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 OCD 24 HRS.  
PRIOR TO CASING & CEMENT  
NMOC

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

OCT 01 2007

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

DISTRICT I  
1625 N. French Dr., Hobbs, N.M. 88240  
DISTRICT II  
1301 W. Grand Avenue, Artesia, N.M. 88210  
DISTRICT III  
1000 Rio Bracco Rd., Aztec, N.M. 87410  
DISTRICT IV  
1220 S. St. Francis Dr., Santa Fe, N.M. 87606

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, N.M. 87505

007 JUL 26 PM 3 58

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

<sup>1</sup> API Number 30-039-30302	<sup>2</sup> Pool Code 71599/72319	<sup>3</sup> Pool Name Basin DAKOTA / Blanco Mesaverde
<sup>4</sup> Property Code 7454	<sup>5</sup> Property Name SAN JUAN 27-5 UNIT	<sup>6</sup> Well Number 907
<sup>7</sup> OGED No. 14538	<sup>8</sup> Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP.	<sup>9</sup> Elevation 6625

## <sup>10</sup> Surface Location

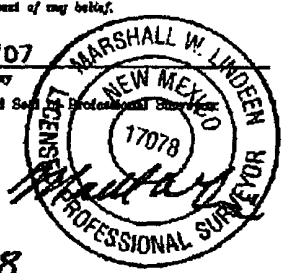
UL or lot no.	Section	Township	Range	Lot 1/4	Feet from the	North/South line	Feet from the	East/West line	County
G	8	27 N	5 W		1595	NORTH	1860	EAST	RIO ARriba

## <sup>11</sup> 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
H	8	27 N	5 W		1675	NORTH	1015	EAST	RIO ARriba

<sup>12</sup> Dedicated Acres 320 E/2	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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

<sup>16</sup> S 88°47'03" E 2646.33' N 0°23'21" W 2616.10' N 0°35'07" W N 78°52'24" W 2690.16'	NAD 83 LAT: 36.591447° N LONG: 107.379409° W  NAD 27 LAT: 36° 35.4863' N LONG: 107° 22.7285' W	1860' 1015' 1595' 1675'	<sup>17</sup> 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 undivided 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 heretofore entered by the division. <i>Kandis Roland</i> Signature Kandis Roland Printed Name Date 10/22/07
	NAD 83 LAT: 36.591171° N LONG: 107.376525° W  NAD 27 LAT: 36° 35.4697' N LONG: 107° 22.5554' W	1860' 1015'	<sup>18</sup> 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. 6/05/07 Date of Survey Signature and Seal of Professional Surveyor  17078 Certificate Number
	USA SF-079391	2670.27'	

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- 30302
5. Indicate Type of Lease	STATE <input type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.	Federal Lease # USA SF-079391
7. Lease Name or Unit Agreement Name	San Juan 27-5 Unit
8. Well Number	#907
9. OGRID Number	14538
10. Pool name or Wildcat	Blanoc MV/Basin DK

**SUNDY 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 : 1595' feet from the North line and 1860' feet from the East line  
Section 8 Township 27N Rng 5W NMPM County Rio Arriba

11. Elevation (Show whether DR, RKB, RT, GR, etc.)  
6625'

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 3200  
Pit Liner Thickness: N/A mil Below-Grade Tank: Volume bbls; Construction Material <1000

**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 ☒ 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 Therese Rogers TITLE Regulatory Technician DATE 7-19-07

Type or print name Rhonda Rogers E-mail address: rogerrs@conocophillips.com Telephone No. 505-599-4018

For State Use Only

Deputy Oil & Gas Inspector,  
District #3

APPROVED BY [Signature] TITLE Deputy Oil & Gas Inspector, District #3 DATE OCT 01 2007

Conditions of Approval (if any):

# PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-5 UNIT 907

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7147				AFE \$:	
Field Name: hBR_SAN JUAN 27-5 UNIT		Rig: Aztec Rig 711		State: NM	County: RIO ARRIBA	API #:	
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist: Riley, Brook		Phone: +1 505-324-6108		Prod. Engineer:		Phone:	
Res. Engineer: McKee, Cory J		Phone: 505-326-9826		Proj. Field Lead:		Phone:	
<b>Primary Objective (Zones):</b>							
<b>Zone</b>	<b>Zone Name</b>						
R20002	MESAVERDE(R20002)						
R20076	DAKOTA(R20076)						
<b>Location: Surface</b>		<b>Datum Code: NAD 27</b>				<b>Straight Hole</b>	
Latitude: 36.591438	Longitude: -107.378807	X:	Y:	Section: 08	Range: 005W		
Footage X: 1860 FEL	Footage Y: 1595 FNL	Elevation: 6625	(FT)	Township: 027N			
Tolerance:							
<b>Location: Bottom Hole</b>		<b>Datum Code: NAD 27</b>				<b>Straight Hole</b>	
Latitude: 36.591162	Longitude: -107.375923	X:	Y:	Section: 08	Range: 005W		
Footage X: 1015 FEL	Footage Y: 1675 FNL	Elevation:	(FT)	Township: 027N			
Tolerance:							
Location Type: Restricted		Start Date (Est.):		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6641 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	200	6441	<input type="checkbox"/>			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 203 cuft. Circulate cement to surface.	
OJAM	2764	3877	<input type="checkbox"/>				
KRLD	2960	3681	<input type="checkbox"/>				
FRLD	3049	3592	<input type="checkbox"/>			Possible Gas	
PCCF	3434	3207	<input type="checkbox"/>				
LEWS	3578	3063	<input type="checkbox"/>				
Intermediate Casing	3678	2963	<input type="checkbox"/>			8 3/4" Hole. 7", 20 ppf, J-55, STC Casing. Cement with 854 cuft. Circulate cement to surface.	
HUERFANITO BENTONITE	3994	2647	<input type="checkbox"/>				
CHRA	4404	2237	<input type="checkbox"/>				
UCLFH	5030	1611	<input type="checkbox"/>			Gas	
MASSIVE CLIFF HOUSE	5118	1523	<input type="checkbox"/>	702		Gas	
MENF	5295	1346	<input type="checkbox"/>				
PTLK	5606	1035	<input type="checkbox"/>				
MNCS	6116	525	<input type="checkbox"/>				
GLLP	6793	-152	<input type="checkbox"/>				
GRHN	7554	-913	<input type="checkbox"/>				
GRRS	7600	-959	<input type="checkbox"/>				
TWLS	7628	-987	<input type="checkbox"/>	2600		Gas	
PAGU	7724	-1083	<input type="checkbox"/>				
CBRO	7748	-1107	<input type="checkbox"/>				
CBRL	7791	-1150	<input type="checkbox"/>				
OAK CANYON	7861	-1220	<input type="checkbox"/>			TD T/OKCN	

### PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 27-5 UNIT 907

DEVELOPMENT

TOTAL DEPTH DK 7861 -1220 ☐

6-1/4" Hole. 4-1/2", 10.6/11.6 ppf, J-55 STC/LTC casing.  
Cement with 570 cuft. Circulate cement a minimum of 100'  
inside the previous casing string.

Reference Wells:		
Reference Type	Well Name	Comments
Production	27-5 #70	NE 8-27N-5W

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, MUDLOG 100' above GRHN to TD	

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

Comments: Location/Tops/Logging - MVNM027N005W08NE4 DKNM027N005W08NE4 SHL twin with #70 and BHL 1675' FNL & 1015' FEL.  
MUDLOG 100' above GRHN to TD

Zones - MVNM027N005W08NE4 DKNM027N005W08NE4

# ConocoPhillips

## Survey Report

Company:	ConocoPhillips Lower 48	Local Co-ordinate Reference:	Well SJ 27-5 #907
Project:	San Juan Basin	TVD Reference:	WELL @ 6640.0ft (Original Well Elev)
Site:	Monty's Site for directional MV/DK wells	MD Reference:	WELL @ 6640.0ft (Original Well Elev)
Well:	SJ 27-5 #907	North Reference:	True
Wellbore:	SJ 27-5 #907	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)
7,951.2	0.00	0 00	7,791.0	-80 0	845 0	848.8	0.00	0 00	0 00
Lower Cubero									
8,000.0	0.00	0 00	7,839.8	-80.0	845 0	848.8	0.00	0 00	0.00
8,021.2	0 00	0 00	7,861.0	-80 0	845 0	848.8	0.00	0.00	0.00
Oak Canyon - TD - SJ 27-5 #907 - PCP									

Targets									
Target Name	hit/miss target	Dip Angle (d)	Dip Dir. (d)	TVD (ft)	+N/-S ft	+E/-W ft	Northing (m)	Easting (m)	Latitude Longitude
SJ 27-5 #907 - ICP	- plan hits target	0 00	0.00	3,678.0	-80.0	845 0	-28.08	257.23	30° 59' 23.720" N 109° 25' 34.387" W
SJ 27-5 #907 - PCP	- plan hits target	0.00	0.00	7,861.0	-80.0	845.0	-28.08	257.23	30° 59' 23.720" N 109° 25' 34.387" W

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (d)	Dip Direction (d)	
2,887.2	2,764.0	Ojo Alamo		0.00		
3,102.1	2,960.0	Kirtland		0.00		
3,197.2	3,049.0	Fruitland		0.00		
3,593.5	3,434.0	Pictured Cliffs		0.00		
3,738.1	3,578.0	Lewis		0.00		
4,154.2	3,994.0	Huerf. Bent		0 00		
4,564.2	4,404.0	Chacra		0 00		
5,190.2	5,030.0	Upper Cliffhouse		0 00		
5,278.2	5,118.0	Mass. Cliffhouse		0 00		
5,455.2	5,295.0	Menefee		0.00		
5,766.2	5,606.0	Pt Lookout		0 00		
6,276.2	6,116.0	Mancos Shale		0.00		
6,953.2	6,793.0	Gallup		0.00		
7,714.2	7,554.0	Greenhorn		0.00		
7,760.2	7,600.0	Graneros		0.00		
7,788.2	7,628.0	Two Wells		0.00		
7,884.2	7,724.0	Paguate		0 00		
7,908.2	7,748.0	Upper Cubero		0.00		
7,951.2	7,791.0	Lower Cubero		0.00		
8,021.2	7,861.0	Oak Canyon		0.00		
8,021.2	7,861.0	TD		0.00		

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

10. Plans for Surface Restoration

The area of construction will be cleared and grubbed using adequate equipment and processes. Stockpile areas will be cleared, grubbed, and leveled before placement of stockpile. Topsoil will be identified, stockpiled, and protected from erosion effects in the best manner possible. Mixing of the subsoil and topsoil will be kept to a minimum through the proper selection of equipment, short pushing, or handling through pick and carry method. Topsoil will be stockpiled in the construction zone for later use in reclamation with quantities large enough to complete interim and final reclamation. Removal and stockpiling of topsoil will only be accomplished in conditions and weather that promote maintaining the integrity of the topsoil. Proper drainage control will be accomplished on all stockpiles and stockpiles delineated.

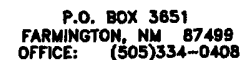
In all instances Burlington will try to minimize any areas of disturbance. Minimization of disturbance will be accomplished through sound construction planning and staking of proposed location. A variety of factors will always be considered while planning the construction layout of a location in order to minimize disturbances. Adequate storm water diversions will be construction to protect location after construction and minimize disturbance to natural drainage structures in place.

Pit Closures will require that pits are restored to a safe and stable condition. All liquids from pits will be removed and disposed of properly until only drilling mud and cuttings remain (see item number 7 above for more details). Solidification of the material in the pit will be accomplished using natural drying methods and mechanical stirring. All trash and debris will be removed before backfilling begins. Frozen material i.e., chunks of frozen materials will not be used for backfill. All pit liners will be cut at the mud level and removed prior to backfilling. Backfilling materials generated from site will be deposited in lifts to accomplish the complete backfilling, contouring, and drainage control for both the Flare pit and the Reserve Pit. Backfill shall be placed to match fit, form and line of existing terrain i.e., natural appearance.

Standard redistribution of topsoil will be accomplished using standard industry methods. The topsoil will be placed on reclamation areas with adequate depth and uniformity. Care will be taken not to compact the topsoil unnecessarily. All surfaces (not including all weather surfaces needed for production and safety) will have topsoil redistributed within a few feet of production facilities. Care will be taken not to contaminate or mix topsoil with subsoil or other foreign matter during the redistribution. Subsoil or subsurface will be prepared to accept topsoil i.e., ruts, holes, will be bladed out to smooth shape before topsoil is redistributed.

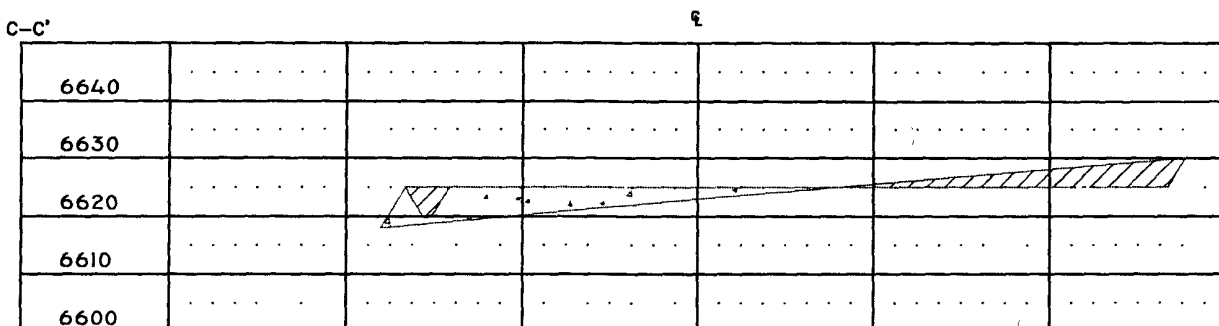
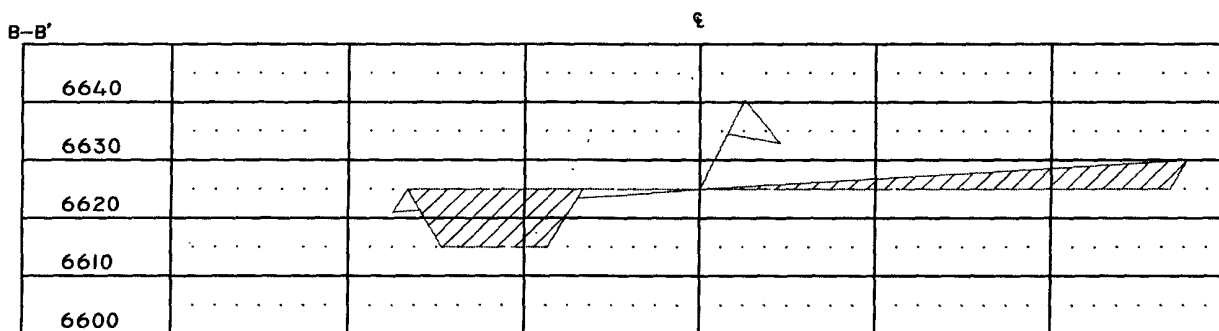
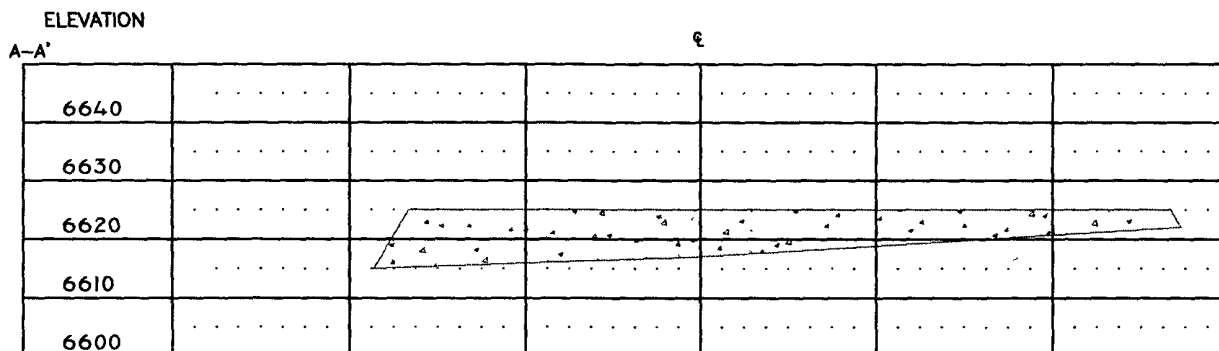
Standard location seeding will be accomplished following best industry practices. The site will be evaluated for plant community. In place topsoil will be tilled, ripped, or disked dependent upon need. Recommendations for the seasons to plant, the seed mix to be used, and the re-vegetation method will be followed. Seeding will be accomplished by drilling except in those areas where methods such as dozer track-walking followed by broadcast seeding are more practical. Seeding will be performed in conditions and seasons that are conducive to successful re-vegetation.

GROUND ELEVATION: 6625 - DATE: JUNE 5, 2007





**BURLINGTON RESOURCES OIL & GAS COMPANY LP.**  
**SAN JUAN 27-5 UNIT 907 - 1595' FNL & 1860' FEL (SURFACE)**  
**1675' FNL & 1015' FEL (BOTTOM)**  
**SECTION 8, T-27-N, R-5-W, N.M.P.M., RIO ARRIBA COUNTY, N.M.**  
**GROUND ELEVATION: 6625 - DATE: JUNE 5, 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: 6/05/07**

**REV. DATE:**

**APP. BY M.W.L.**

**DRAWN BY: H.S.**

**DATE DRAWN: 6/19/07**

**FILE NAME: 7698C01**



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