

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	5. Lease Number USA SF-080673 Unit Reporting Number NMNM-78408A-MV NMNM-78408B-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 27-4 Unit	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name 9. Well Number #42N	
4. Location of Well Surf:Unit N (SESW), 1275' FSL & 1580' FWL, BH:Unit M (SWSW), 1160' FSL & 465' FWL Surf:Latitude 36° 35.0356 N Longitude 107° 16.6035 W BH:Latitude 36° 35.0164 N Longitude 107° 16.8312 W	10. Field, Pool, Wildcat Blanco MV/Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 8, T27N, R4W API # 30-039-30273	
14. Distance in Miles from Nearest Town 18 miles/Gobernador	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1275'		
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 100' from San Juan 27-4 42		
19. Proposed Depth TVD 8017' / TMD 8216'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6712' GL	22. Approx. Date Work will Start RCVD AUG 23 '07 OIL CONS. DIV. DIST. 3 5-31-07 Date	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Rhonda Rogers</u> Rhonda Rogers (Regulatory Technician)		

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

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

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.

PRIOR TO CASING & CEMENT

SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

istrict I
Box 1980, Hobbs, NM 88241-1980

istrict II
Drawer DD, Artesia, NM 88211-0719

istrict III
00 Rio Brazos Rd., Aztec, NM 87410

istrict IV
Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

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

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

2007 JUN -1 PM 3:45
RECEIVED AMENDED REPORT
210 TAFE PL
RCVD AUG 23 '07

WELL LOCATION AND ACREAGE DEDICATION PLAT OIL CONS. DIV.

*API Number 30-039- 30273		*Pool Code 72319/71599	*Pool Name Blanco Mesaverde / Basin Dakota	DIST. 3
*Property Code 7452	*Property Name SAN JUAN 27-4 UNIT			*Well Number 42N
*GRID No 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY, LP			*Elevation 6712'

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
N	8	27N	4W		1275	SOUTH	1580	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
M	8	27N	4W		1160	SOUTH	465	WEST	RIO ARriba

¹² Dedicated Acres 320 acres W2 (MV/DK)	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

<p>5250.96'</p>		<p>¹⁷ OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</p> <p><i>Kandis Roland</i> Signature Kandis Roland Printed Name Regulatory Technician Title November 2 2006 Date</p>	
<p>LEASE USA SF-080673</p>		<p>¹⁸ SURVEYOR CERTIFICATION</p> <p>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</p> <p>Survey Date: SEPTEMBER 5, 2006</p> <p>Signature and Seal of Professional Surveyor</p> <p> JASON C. EDWARDS Certificate Number 15269</p>	
<p>5280.00'</p> <p>8</p> <p>SURFACE LOCATION LAT: 36.58394°N LONG: 107.27732°W DATUM: NAD83</p> <p>BOTTOM-HOLE LOCATION LAT: 36°35.0164'N LONG: 107°16.8312'W DATUM: NAD27</p> <p>1580'</p> <p>5256.24'</p> <p>465' 1160' 1275'</p> <p>584°39.1'W 1120.4'</p>		<p>5280.00'</p>	

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- **30273**

5. Indicate Type of Lease

STATE ☐FEE ☐

6. State Oil & Gas Lease No.

Federal Lease # USA SF-080673

7. Lease Name or Unit Agreement Name

San Juan 27-4 Unit

8. Well Number

#42N

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 N : 1275' feet from the South line and 1580' feet from the West line
Section 8 Township 27N Rng 4W NMPM County Rio Arriba

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

6712'

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

<200

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, 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



TITLE

Regulatory Technician

DATE

5-31-07

Type or print name

Rhonda Rogers

E-mail address:

ogerrs@conocophillips.com

Telephone No.

505-599-4018

For State Use Only

APPROVED BY



Deputy Oil & Gas Inspector,

TITLE

District #3

DATE

AUG 29 2007

Conditions of Approval (if any):

PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 27-4 UNIT 42N

DEVELOPMENT

Lease:		AFE #: WAN.ZA1.9849/9850MV				AFE \$:	
Field Name: hBR_SAN JUAN 27-4 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:	
Primary Objective (Zones):							
Zone	Zone Name						
R20002	MESAVERDE(R20002)						
R20076	DAKOTA(R20076)						
Location: Surface Datum Code: NAD 27 Deviated							
Latitude: 36.583931	Longitude: -107.276721	X:	Y:	Section: 08	Range: 009W		
Footage X: 1580 FWL	Footage Y: 1275 FSL	Elevation: 6712	(FT)	Township: 027N	04W		
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27 Deviated							
Latitude:	Longitude:	X:	Y:	Section: 08	Range: 009W		
Footage X: 465 FWL	Footage Y: 1160 FSL	Elevation: 6712	(FT)	Township: 027N	04W		
Tolerance:							
Location Type: Restricted		Start Date (Est.):		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6736 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
SURFACE CSG	216	6520	<input type="checkbox"/>			12-1/4" hole, 9-5/8" 32.3 ppf, H-40, STC casing. Cement w/ 203 cuft. Circulate Cmt to surface.	
OJO ALAMO	2961	3775	<input type="checkbox"/>			Possible water flows.	
KIRTLAND	3158	3578	<input type="checkbox"/>				
FRUITLAND COAL	3422	3314	<input type="checkbox"/>				
PICTURED CLIFFS	3601	3135	<input type="checkbox"/>				
LEWIS	3678	3058	<input type="checkbox"/>				
Intermediate Casing	3778	2958	<input type="checkbox"/>			8 3/4" hole. 7" 20 ppf J-55, STC casing. Circulate cement to surface. Cement with 885 cu.ft	
HUERFANITO BENTONITE	4156	2580	<input type="checkbox"/>				
CHACRA	4551	2185	<input type="checkbox"/>				
MASSIVE CLIFF HOUSE	5356	1380	<input type="checkbox"/>				
MENEFEE	5403	1333	<input type="checkbox"/>				
MASSIVE POINT LOOKOUT	5758	978	<input type="checkbox"/>				
MANCOS	6278	458	<input type="checkbox"/>				
UPPER GALLUP	6921	-185	<input type="checkbox"/>				
GREENHORN	7694	-958	<input type="checkbox"/>				
GRANEROS	7761	-1025	<input type="checkbox"/>				
TWO WELLS	7799	-1063	<input type="checkbox"/>				
UPPER CUBERO	7911	-1175	<input type="checkbox"/>				
LOWER CUBERO	7956	-1220	<input type="checkbox"/>				
OAK CANYON	8007	-1271	<input type="checkbox"/>				
TOTAL DEPTH DK	8017	-1281	<input type="checkbox"/>	1200		6-1/4" Hole. 4-1/2", 10.5/11.6 ppf, J-55 STC/LTC casing. Cement with 577 cuft. Circulate cement a minimum of 100' inside the previous casing string.	

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-4 UNIT 42N

DEVELOPMENT

Reference Wells:		
Reference Type	Well Name	Comments
Production	27-4 #42	SW8-27N-4W
Production	Estimated bottom perf	at -1266 subsea or 5' above Oak Canyon
Production	TD at 10' into Oak Canyon.	
Production	#44F	located in SE18-27N-4W quit dusting in the Two Wells
Production	#55M	located in SE5 27N-4W quit dusting in the Lower Cubero

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
Mudlog to TD from 100' above Greenhorn							

Additional Information:					
Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
Mud Logging	Total Depth	7594	8017		Mudlog to TD from 100' above Greenhorn - loggers will call TD.

Comments: Location/Tops/Logging - DKNM027N004W08SW2 AND MVNM027N004W08SW2, MUDLOGGER 100 ft. above Greehorn to TD

Zones - DKNM027N004W08SW2 AND MVNM027N004W08SW2

General/Work Description - 11/21/2006 - Brought back into progress, received C102, APD ready to be submitted.
NO LEWIS

ConocoPhillips or its affiliates

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 @ 6727.0ft (Original Well Elev)
Site:	Monty's Site for directional MV/DK wells	MD Reference:	WELL @ 6727.0ft (Original Well Elev)
Well:	SJ 27-4 #42N	North Reference:	True
Wellbore:	SJ 27-4 #42N	Survey Calculation Method:	Minimum Curvature
Design:	SJ 27-4 #42N	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)
8,154.8	0.00	0.00	7,956.0	-115.0	-1,115.0	1,120.9	0.00	0.00	0.00
Lower Cubero									
8,200.0	0.00	0.00	8,001.2	-115.0	-1,115.0	1,120.9	0.00	0.00	0.00
8,205.8	0.00	0.00	8,007.0	-115.0	-1,115.0	1,120.9	0.00	0.00	0.00
Oak Canyon									
8,215.8	0.00	0.00	8,017.0	-115.0	-1,115.0	1,120.9	0.00	0.00	0.00
TD - SJ 27-4 #42N - PCP									

Targets

Target Name	- hit/miss target	Dip Angle (d)	Dip Dir. (d)	TVD (ft)	+N/-S ft	+E/-W ft	Northing (ft)	Easting (ft)	Latitude	Longitude
SJ 27-4 #42N - PCP	- plan hits target	0.00	0.00	8,017.0	-115.0	-1,115.0	-99.02	-1,116.76	30° 59' 23.374" N	109° 25' 56.903" W
- Point										
SJ 27-4 #42N - ICP	- plan hits target	0.00	0.00	3,778.0	-115.0	-1,115.0	-99.02	-1,116.76	30° 59' 23.374" N	109° 25' 56.903" W
- Point										

Formations

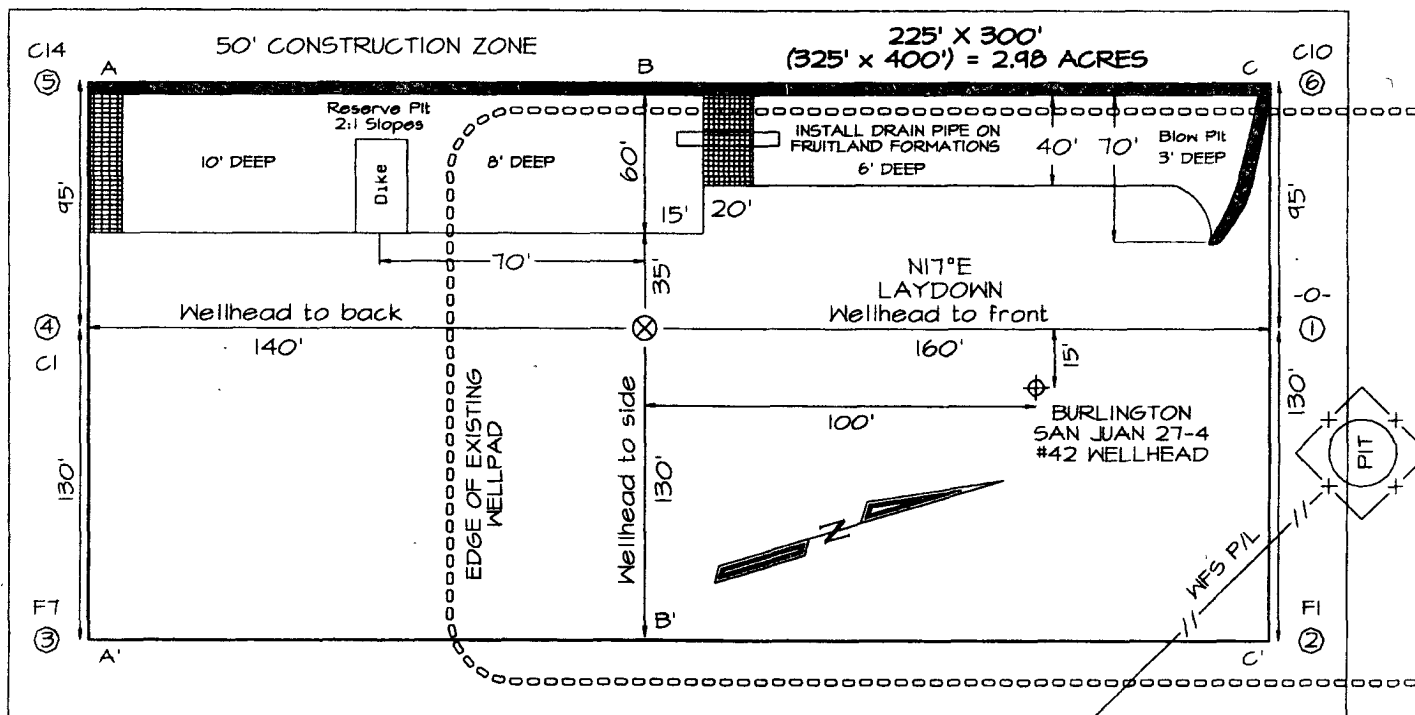
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (d)	Dip Direction (d)
3,134.0	2,961.0	Ojo Alamo		0.00	
3,345.3	3,158.0	Kirtland		0.00	
3,618.7	3,422.0	Fruitland		0.00	
3,799.5	3,601.0	Pictured Cliffs		0.00	
3,876.7	3,678.0	Lewis		0.00	
4,354.8	4,156.0	Huerf. Bent.		0.00	
4,749.8	4,551.0	Chacra		0.00	
5,554.8	5,356.0	Mass. Cliffhouse		0.00	
5,601.8	5,403.0	Menefee		0.00	
5,956.8	5,758.0	Pt. Lookout		0.00	
6,476.8	6,278.0	Mancos Shale		0.00	
7,119.8	6,921.0	Gallup		0.00	
7,892.8	7,694.0	Greenhorn		0.00	
7,959.8	7,761.0	Graneros		0.00	
7,997.8	7,799.0	Two Wells		0.00	
8,109.8	7,911.0	Upper Cubero		0.00	
8,154.8	7,956.0	Lower Cubero		0.00	
8,205.8	8,007.0	Oak Canyon		0.00	
8,215.8	8,017.0	TD		0.00	

Checked By: _____	Approved By: _____	Date: _____
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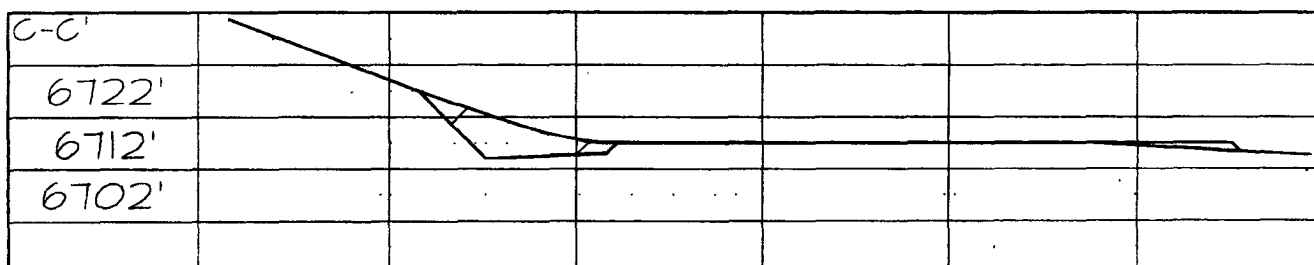
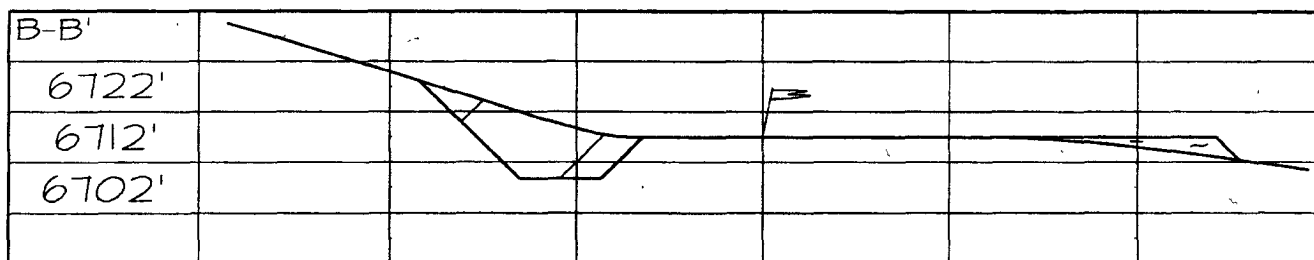
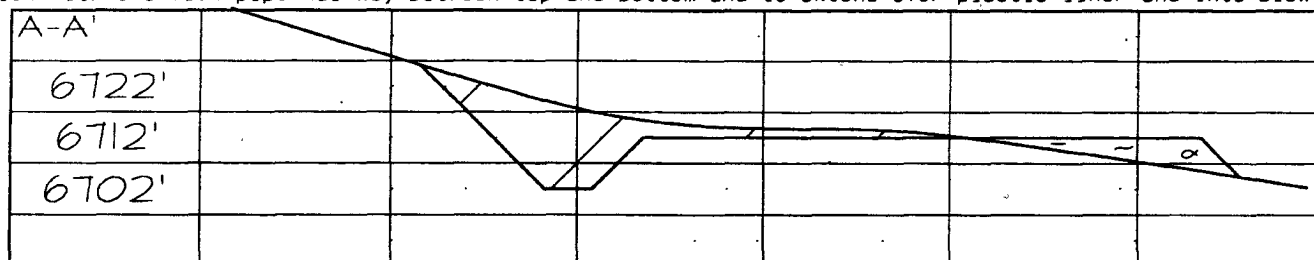
PLAT #1

BURLINGTON RESOURCES OIL & GAS COMPANY, LP
SAN JUAN 27-4 UNIT #42N, 1275' FSL & 1580' FWL
SECTION 8, T27N, R4W, NMPM, RIO ARriba COUNTY, NM
GROUND ELEVATION: 6712' DATE: SEPTEMBER 5, 2006

LATITUDE: 36.58394° N
LONGITUDE: 107.27732° 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