

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work <b>DRILL</b>	<b>RECEIVED</b> <b>OCT 22 2007</b> Bureau of Land Management Farmington Field Office	5. Lease Number <b>SF-079265</b>
1b. Type of Well <b>GAS</b>		6. If Indian, All. or Tribe <b>RCVD NOV 6 '07</b>
2. Operator <b>BURLINGTON</b> <b>RESOURCES Oil &amp; Gas Company, LP</b>	7. Unit Agreement Name <b>OIL CONS. DIV.</b> <b>DIST. 3</b>	
3. Address & Phone No. of Operator <b>PO Box 4289, Farmington, NM 87499</b>  <b>(505) 326-9700</b>	8. Farm or Lease Name <b>Klein</b>	
	9. Well Number <b>#27N</b>	
4. Location of Well <b>Surf: Unit K (NESW), 1555' FSL &amp; 2070' FWL,</b> <b>BH: Unit M (SW/SW), 710' FSL &amp; 710' FWL</b>  <b>Surf: Latitude 36.4440006'N</b> <b>Longitude 107.438768'W</b> <b>BH: Latitude 36.437639'N/Longitude 107.443319'W</b>	10. Field, Pool, Wildcat <b>Blanco MV/Basin DK</b>	
	11. Sec., Twn, Rge, Mer. (NMPM) <b>Sec. 35 T26N, R6W</b>  <b>K API # 30-039-30405</b>	
14. Distance in Miles from Nearest Town <b>46.7 miles Blanco</b>	12. County <b>Rio Arriba</b>	
	13. State <b>NM</b>	
15. Distance from Proposed Location to Nearest Property or Lease Line <b>710'</b>		
16. Acres in Lease <b>2242.48 acres</b>	17. Acres Assigned to Well <b>MV/DK 320 (S/2)</b>	
18. Distance from Proposed Location to Nearest Well, Drlg. Compl. or Applied for on this Lease <b>55' - Klein #27E</b>		
19. Proposed Depth <b>7002' 7016' TVD</b>	20. Rotary or Cable Tools <b>Rotary</b>	
21. Elevations (DF, FT, GR, Etc.) <b>6336' GL</b>	22. Approx. Date Work will Start <b>BLM'S 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</b> <b>NOV 27 2007</b> <b>Date</b>	
23. Proposed Casing and Cementing Program <b>See Operations Plan attached</b>		
24. Authorized by: <u>Sasha Spangler</u> <b>Sasha Spangler, Regulatory Technician</b>		

PERMIT NO.

APPROVED BY

APPROVAL DATE

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 **X 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

NOV 13 2007 MOCD

NOTIFY AZTEC OCD 24 HRS.  
PRIOR TO CASING & CEMENT  
"GENERAL REQUIREMENTS"

# RECEIVED

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

State of New Mexico  
Energy, Minerals & Natural Resources Department

OCT 22 2007

Form C-102  
Revised October 12, 2005

DISTRICT II  
1301 West Grand Avenue, Artesia, N.M. 88210

OIL CONSERVATION DIVISION

Bureau of Land Management  
Submit to Appropriate District Office  
Farmington Field Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

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

1220 South St. Francis Dr.  
Santa Fe, NM 87505

DISTRICT IV  
1220 S. St. Francis Dr., Santa Fe, NM 87506

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-039-30405		2 Pool Code 71599 / 72319		3 Pool Name BASIN DAKOTA/BLANCO MESAVERDE	
4 Property Code 7228		5 Property Name KLEIN			6 Well Number 27N
7 OGRID No. 14538		8 Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP			9 Elevation 6336'

### 10 Surface Location

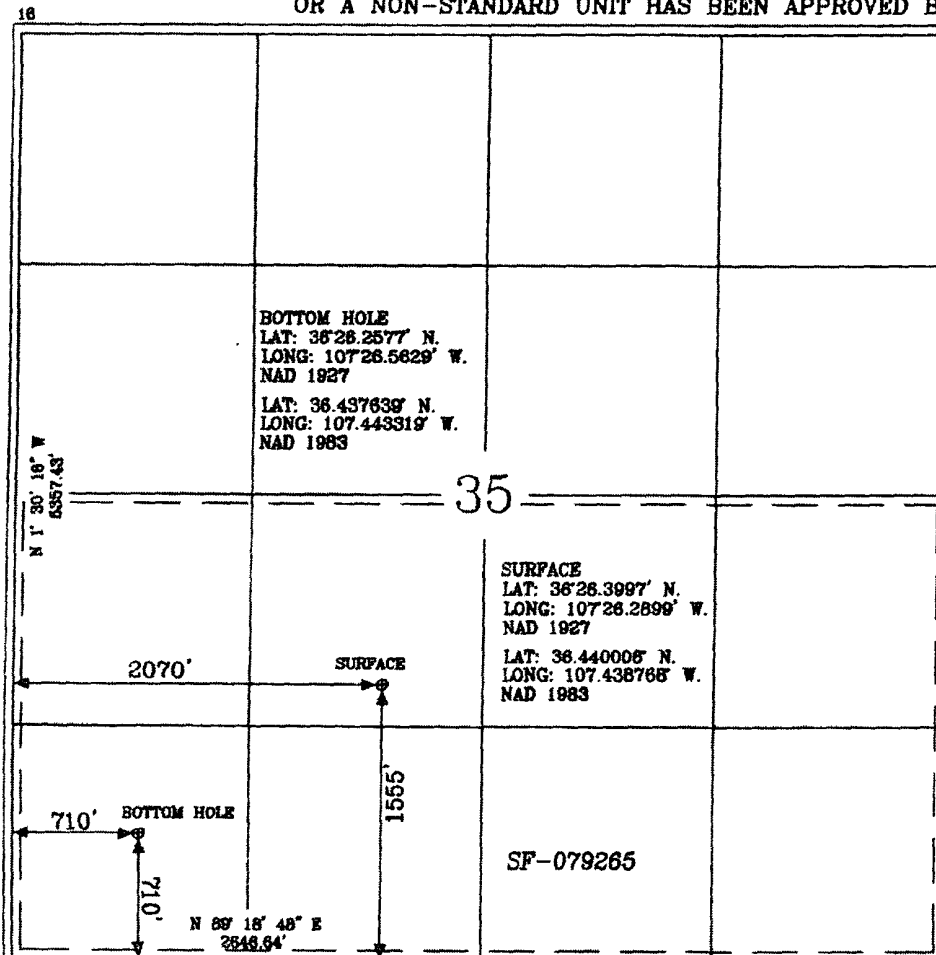
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	35	26-N	6-W		1555'	SOUTH	2070'	WEST	RIO ARRIBA

### 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	35	26-N	6-W		710'	SOUTH	710'	WEST	RIO ARRIBA

12 Dedicated Acres MV/DK 320. S/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



### 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 a working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the Division.

*Patsy Clugston*  
Signature

Patsy Clugston 7/26/07  
Printed Name

### 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.

7.20.07  
Date of Survey

Signature of Licensed Professional Surveyor:

*Allen W. Russell*  
Certificate Number 15703

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- 30405

5. Indicate Type of Lease

STATE ☐FEE ☐

6. State Oil &amp; Gas Lease No.

Federal Lease SF-079265

7. Lease Name or Unit Agreement Name

Klein

8. Well Number

#27N

9. OGRID Number

14538

10. Pool name or Wildcat

Basin Dakota / Blanco Mesaverde

**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 &amp; GAS COMPANY LP

3. Address of Operator

3401 E. 30TH STREET, FARMINGTON, NM 87402

4. Well Location

Unit Letter K : 1555' feet from the South line and 2070' feet from the West line  
 Section 35 Township 26N Rng 6W NMPM County Rio Arriba

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

6336' GL

Pit or Below-grade Tank Application

or Closure ☐

Pit type

New Drill

Depth to Groundwater

450'

Distance from nearest fresh water well

&gt;1000'

Distance from nearest surface water

&lt;100'

&lt;1000'

Pit Liner Thickness:

12

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 ☐

OTHER:

New Drill Pit ☒

## SUBSEQUENT REPORT OF:

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

Sasha Spangler

TITLE

Regulatory Specialist

DATE

10/19/2007

Type or print name

Sasha Spangler

E-mail address: spangs@conocophillips.com

Telephone No. 505-326-9568

For State Use Only

APPROVED BY

[Signature]

TITLE

Deputy Oil &amp; Gas Inspector,

DATE

NOV 13 2007

Conditions of Approval (if any):

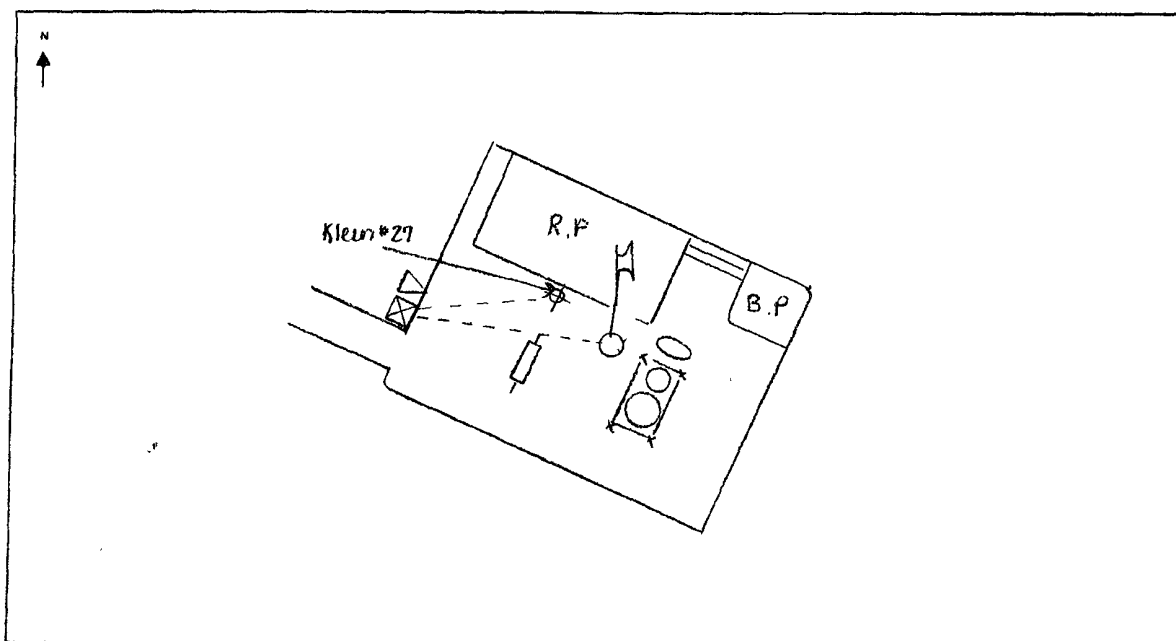
Vulcan area - pits to be closed per Rule 50.5.1



## CATHODIC PROTECTION PLAN FOR NEW WELLS

WELL NAME KLEIN #27N LEGALS K-35-216-16 COUNTY Rio Arriba

PURPOSED C.P. SYSTE~~M~~M: Drill 6" and set solar on SW edge of location. Trench approx 140' of #8 neg from existing #27 wellhead to solar. Trench approx 175' of #8 neg cable from proposed well to solar.



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

COMMENTS: \_\_\_\_\_

NEAREST POWER SOURCE N/A DISTANCE: \_\_\_\_\_

PIPELINES IN AREA: \_\_\_\_\_

TECHNICIAN: Michael H. Hingore DATE: 7/24/07

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

# PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

KLEIN 27N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7180				AFE \$:	
Field Name: hBR_SAN JUAN		Rig: Aztec Rig 730		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>						
FRR	BASIN DAKOTA (PRORATED GAS)						
RON	BLANCO MESAVERDE (PRORATED GAS)						
<b>Location: Surface</b> <b>Datum Code: NAD 27</b> <b>Deviated</b>							
Latitude: 36.439989		Longitude: -107.435152		X:	Y:	Section: 35	Range: 006W
Footage X: 2070 FWL		Footage Y: 1555 FSL		Elevation: 6336 (FT)		Township: 026N	
Tolerance:							
<b>Location: Bottom Hole</b> <b>Datum Code: NAD 27</b> <b>Deviated</b>							
Latitude: 36.437628		Longitude: -107.442716		X:	Y:	Section: 35	Range: 006W
Footage X: 710 FWL		Footage Y: 710 FSL		Elevation: (FT)		Township: 026N	
Tolerance:							
Location Type: Year Round		Start Date (Est.): 1/1/2007		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6348      Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	320	6028	<input type="checkbox"/>			12-1/4" hole. 9-5/8", 32.3 ppf, H-40, ST&C casing. Cement with 170 cu. ft. Circulate cement to surface.	
OJO ALAMO	1951	4397	<input type="checkbox"/>				
KIRTLAND	2058	4290	<input type="checkbox"/>				
FRUITLAND	2318	4030	<input type="checkbox"/>			Possible Gas	
PICTURED CLIFFS	2510	3838	<input type="checkbox"/>				
LEWIS	2591	3757	<input type="checkbox"/>				
HUERFANITO BENTONITE	2933	3415	<input type="checkbox"/>				
CHACRA	3387	2961	<input type="checkbox"/>				
MASSIVE CLIFF HOUSE	4177	2171	<input type="checkbox"/>	800			
MENEFEE	4208	2140	<input type="checkbox"/>				
Intermediate Casing	4500	1848	<input type="checkbox"/>			8-3/4" hole. 7", 23.0 ppf, L-80, LT&C casing. Cement with 1089 cu. ft. Circulate cement to surface.	
MASSIVE POINT LOOKOUT	4781	1567	<input type="checkbox"/>			GAS	
MANCOS	5078	1270	<input type="checkbox"/>				
UPPER GALLUP	5803	545	<input type="checkbox"/>				
GREENHORN	6693	-345	<input type="checkbox"/>				
GRANEROS	6749	-401	<input type="checkbox"/>				
TWO WELLS	6805	-457	<input type="checkbox"/>	1700		Gas	
UPPER CUBERO	6896	-548	<input type="checkbox"/>				
LOWER CUBERO	6928	-580	<input type="checkbox"/>				
OAK CANYON	6961	-613	<input type="checkbox"/>				
ENCINAL	7002	-654	<input type="checkbox"/>				

# PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

KLEIN 27N

DEVELOPMENT

TOTAL DEPTH DK	7016	-668	<input type="checkbox"/>	TD 40' below T/MRSN. 6-1/4" hole. 4-1/2", 11.6 ppf, L-80, LT&C casing. Cement with 347 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.
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Reference Wells:		
Reference Type	Well Name	Comments

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 - MVNM026N006W35SW2 DK 26N06W35SW2 Avoid K, topo will be an issue, twin Klein 13, else prefer L,M. MUDLOG 100' above GRHN to TD

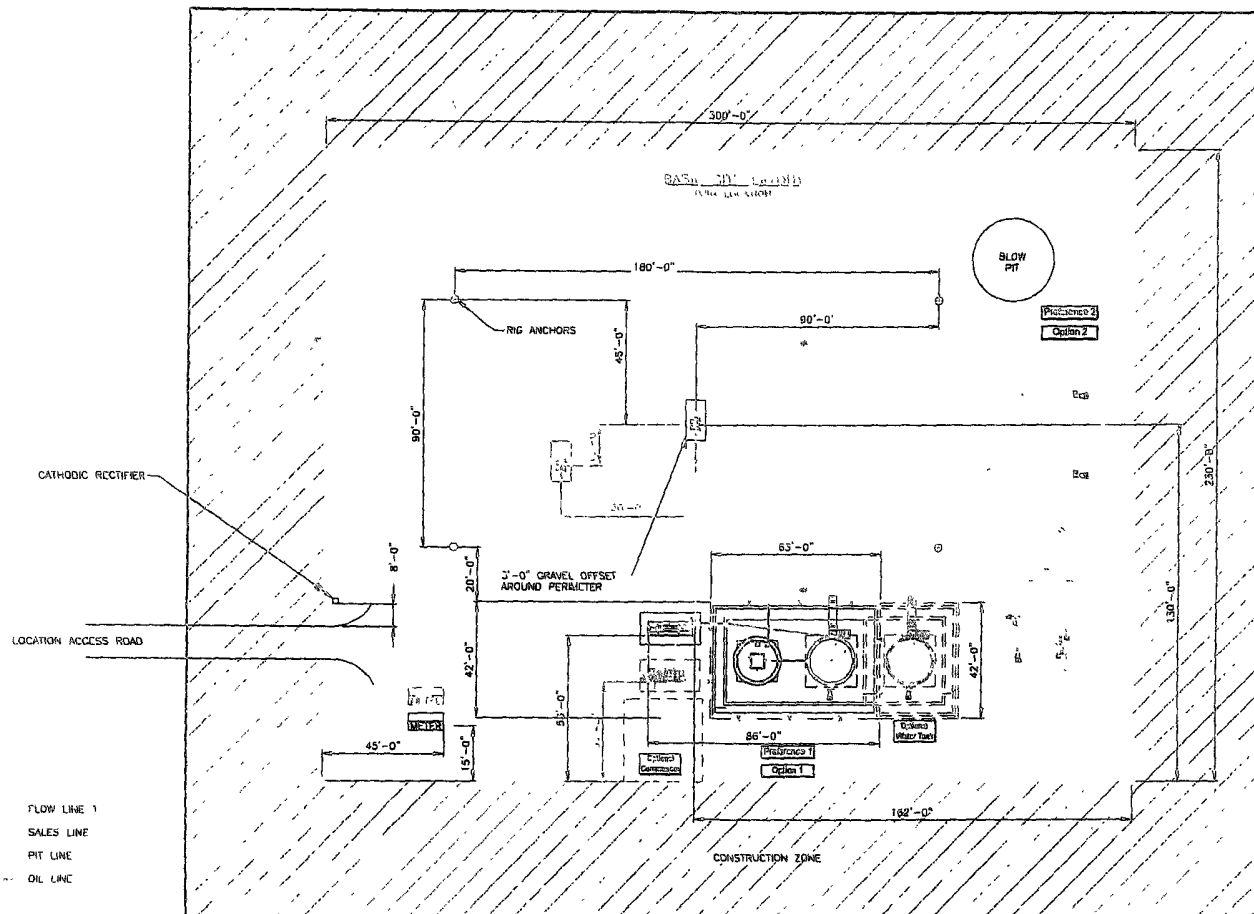
Zones - MVNM026N006W35SW2 DK 26N06W35SW2

General/Work Description - Directional Drill and is economic wfp

# **ConocoPhillips or its affiliates** Planning Report

<b>Database:</b>	EDM Central Planning	<b>Local Co-ordinate Reference:</b>	Well Klein #27N
<b>Company:</b>	ConocoPhillips	<b>TVD Reference:</b>	Generic Rig RKB @ 6351.0ft
<b>Project:</b>		<b>MD Reference:</b>	Generic Rig RKB @ 6351.0ft
<b>Site:</b>	Russell's Site for Directional MV/DK wells	<b>North Reference:</b>	True
<b>Well:</b>	Klein #27N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Klein #27N		
<b>Design:</b>	APD Directional Plan		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (d)	Dip Direction (d)	
1,951.0	1,951.0	Ojo		0.00		
2,058.0	2,058.0	Kirtland		0.00		
2,318.0	2,318.0	Fruitland		0.00		
2,510.0	2,510.0	Pictured Cliffs		0.00		
2,591.0	2,591.0	Lewis		0.00		
2,933.6	2,933.0	Huerfano Bentonite		0.00		
3,402.8	3,387.0	Chacra		0.00		
4,269.7	4,177.0	Mass Cliffhouse		0.00		
4,303.8	4,208.0	Menefee		0.00		
4,933.8	4,781.0	Point Lookout		0.00		
5,260.3	5,078.0	Mancos		0.00		
6,057.3	5,803.0	Upper Gallup		0.00		
7,012.3	6,693.0	Greenhorn		0.00		
7,069.0	6,749.0	Graneros		0.00		
7,125.4	6,805.0	Two Wells		0.00		
7,216.8	6,896.0	Cubero		0.00		
7,248.8	6,928.0	Lower Cubero		0.00		
7,281.8	6,961.0	Oak Canyon		0.00		
7,322.8	7,002.0	Encinca		0.00		
7,336.8	7,016.0	TD		0.00		



SEE SHEET 2 & 4 FOR PUMP DETAILS  
ALL UNDERGROUND PIPING IS TO BE INSTALLED A MIN. OF 3'-0" TO 10'

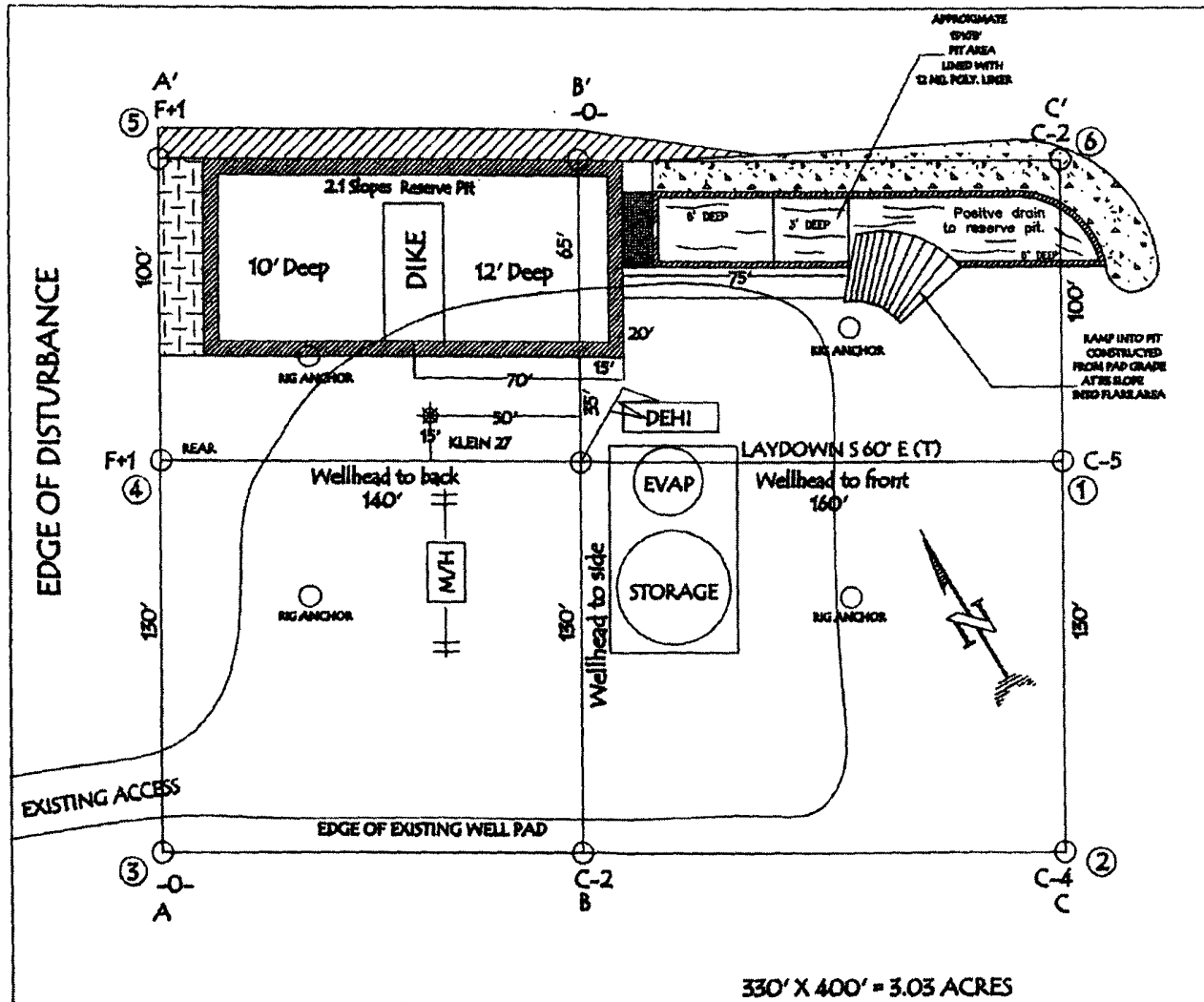
SHEET 1 OF 3

										ENGINEERING REVIEW		REFERENCE DRAWINGS		CONOCO <sup>TM</sup> PHILLIPS		CONOCO <sup>TM</sup> PHILLIPS HIGH PRESSURE 5 PHASE FACILITY DIAGRAM- SITC LAYOUT			
										DISCIPLINE	REVIEWED	DATE	FIG.	DESCRIPTION	CONOCO <sup>TM</sup> PHILLIPS		CLIENT NO.	CLIENT ADDR.	CLIENT CITY
										PROCESS							000000	000000	000000
										MECHANICAL							000000	000000	000000
										PIPELINE							000000	000000	000000
										ELECTRICAL							000000	000000	000000
										INSTRUMENTATION							000000	000000	000000
										CIVIL/STRUCTURAL							000000	000000	000000
										PROJECT							000000	000000	000000
DISCIPLINE										DATE	BY	CHK'D	DATE	BY	SAN JUAN BUSINESS UNIT		CLIENT NO.	CLIENT ADDR.	CLIENT CITY
DISCIPLINE																	000000	000000	000000
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**BURLINGTON RESOURCES OIL & GAS COMPANY LP**  
**KLEIN 27N, 1555' FSL & 2070' FWL**  
**SECTION 35, T-26- N, R-6-W, NMPM, RIO ARriba COUNTY, NM**  
**GROUND ELEVATION: 6336', DATE: JUNE 22, 2007**

RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW - 3' WIDE AND 1' ABOVE SHALLOW SIDE).



LAT: 36° 26.3997' N LONG: 107° 26.2899' W NAD27

NOTE: VECTOR SURVEY 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 AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

# BURLINGTON RESOURCES OIL & GAS COMPANY LP

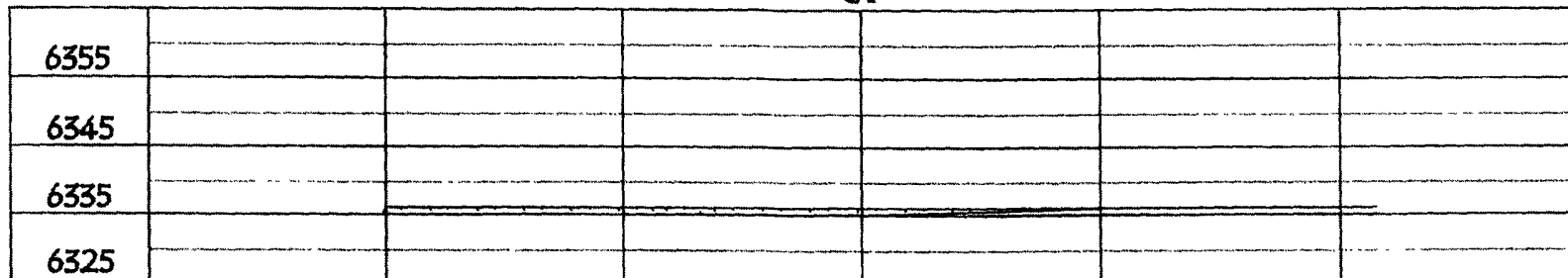
KLEIN 27N, 1555' FSL & 2070' FWL

SECTION 35, T-26- N, R-6-W, NMPM, RIO ARriba COUNTY, NM

GROUND ELEVATION: 6336', DATE: JUNE 22, 2007

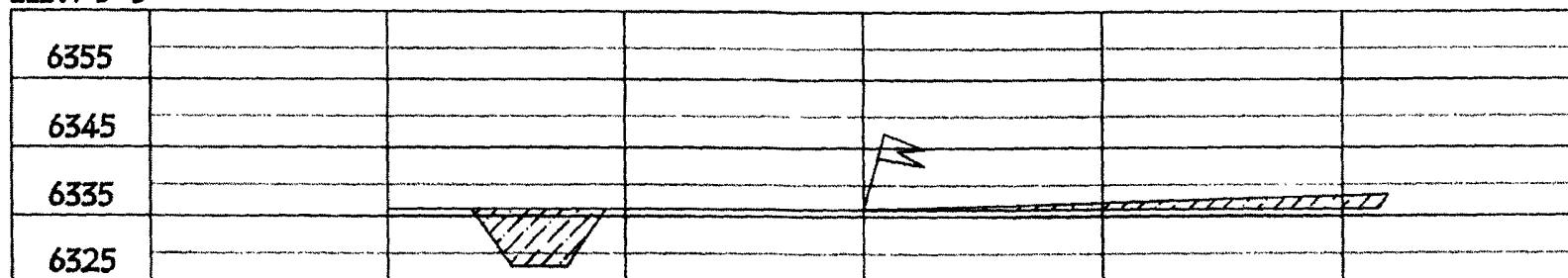
ELEV. A'-A

C/L



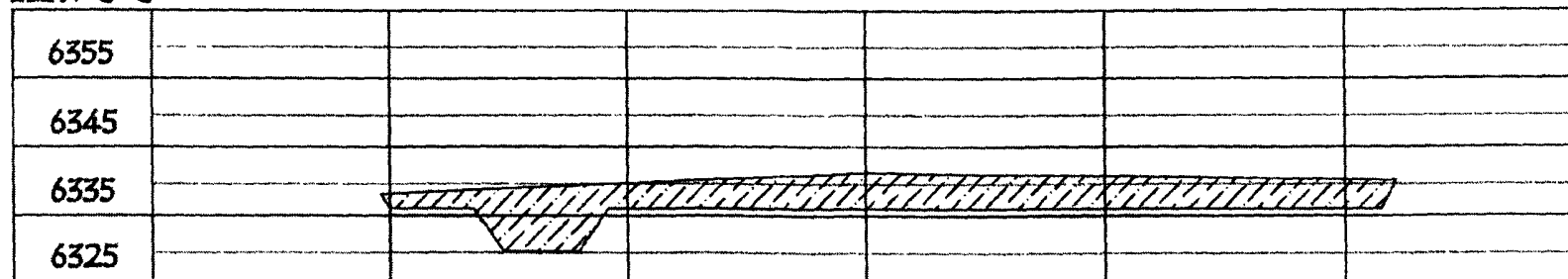
ELEV. B'-B

C/L



ELEV. C'-C

C/L



NOTE: VECTOR SURVEYS 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 AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.