

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RCVD MAR 28 '08

OIL CONS. DIV.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

DIST. 3

1a. Type of Work DRILL	RECEIVED SEP 07 2007 Bureau of Land Management Farmington Field Office	5. Lease Number NMSF-047017-B 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
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700		8. Farm or Lease Name Angel Peak B 9. Well Number #27E
4. Location of Well Surf: Unit D (NWNW), 105' FNL & 675' FWL BH: Unit D (NWNW), 1250' FNL & 700' FWL Surf: Latitude 36° 38.4159 N Longitude 107° 57.6765 W BH: Latitude 36° 38.2271 N Longitude 107° 57.6712 W		10. Field, Pool, Wildcat Basin Dakota 11. Sec., Twn, Rge, Mer. (NMPM) 0 Sec. 25, T28N, R11W API # 30-045-34424
14. Distance in Miles from Nearest Town	12. County San Juan	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 105'		
16. Acres in Lease 1894.080	17. Acres Assigned to Well MV/DK 320 (W/2)	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease		
19. Proposed Depth 6417' TVD/ 6630' TMD 6649'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 5818' GL	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Rhonda Rogers</u> Rhonda Rogers (Regulatory Technician)	Hold C104 for Directional Survey and "As Drilled" plat 9-6-07 Date	

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY [Signature] TITLE ATM DATE 3/25/08

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

**NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT**

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

NMOCD

APR 01 2008

Hold C104
for Directional Survey
and "As Drilled" plat

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

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

DISTRICT II
611 South First, Artesia, N.M. 88210

DISTRICT III
Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 15, 2000

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, NM 87505

RECEIVED
SEP 07 2007

Bureau of Land Management
Farmington Field Office

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045- 34424	² Pool Code 71599	³ Pool Name Basin Dakota
⁴ Property Code 6788	⁵ Property Name ANGEL PEAK B	⁶ Well Number 27E
⁷ OGRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP	⁹ Elevation 5818'

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
D	25	28-N	11-W		105'	NORTH	675'	WEST	SAN JUAN

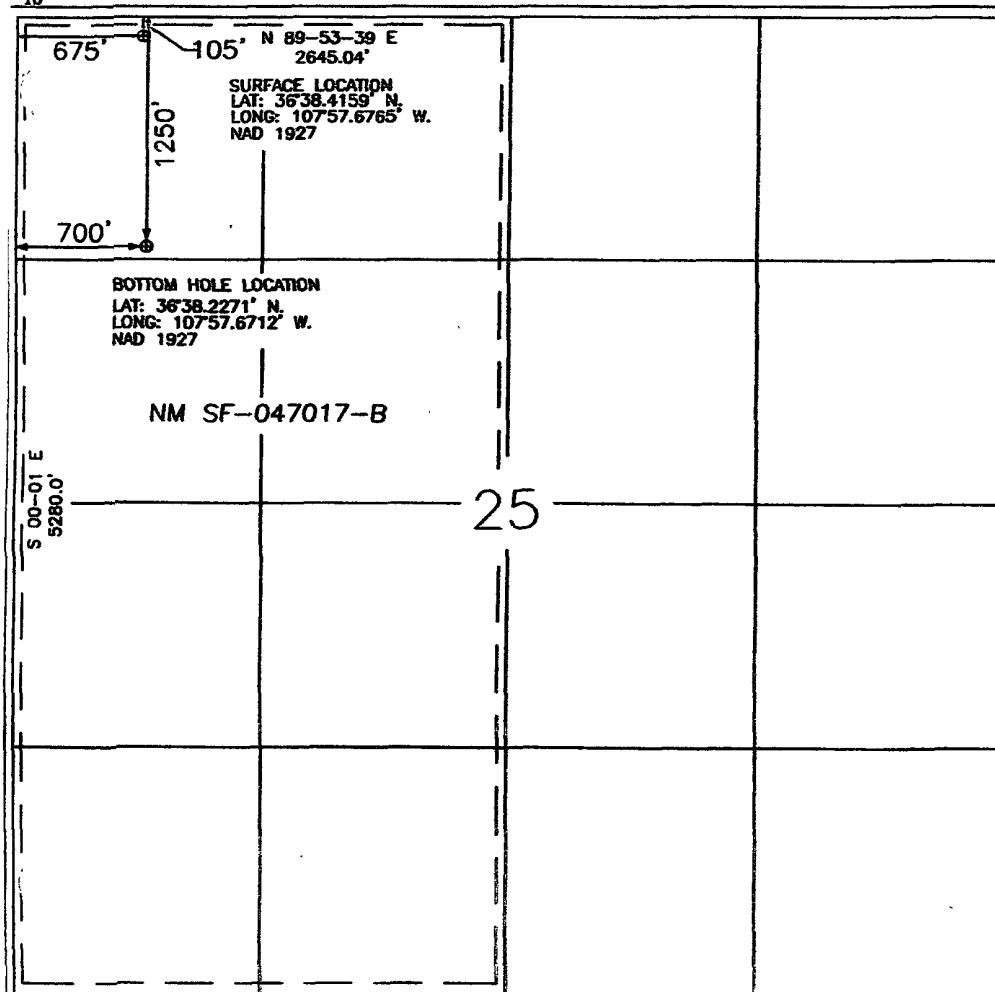
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	25	28-N	11-W		1250'	NORTH	700'	WEST	SAN JUAN

¹² Dedicated Acres 320 W/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

16



17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Rhonda Rogers
Signature
Rhonda Rogers
Printed Name
Regulatory Technician
Title
9/6/07
Date

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.

Date of Survey 1-27-06
Signature and Seal of Professional Surveyor
Certificate Number 15703

Office

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

State of New Mexico

Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-103

May 27, 2004

WELL API NO.

30-045-34424

5. Indicate Type of Lease

STATE ☐

FEE ☐

6. State Oil & Gas Lease No.

Federal Lease #NMSF-047017-B

7. Lease Name or Unit Agreement Name

Angel Peak B

8. Well Number

#27E

9. OGRID Number

14538

10. Pool name or Wildcat

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 : 105' feet from the North line and 675' feet from the West line
Section 25 Township 28N Rng 11W NMPM County San Juan

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

5818'

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:

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 ☐

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, 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

Rhonda Rogers

TITLE

Regulatory Technician

DATE

9-6-07

Type or print name

Rhonda Rogers

E-mail address:

rogerr@conocophillips.com

Telephone No.

505-599-4018

For State Use Only

APPROVED BY

[Signature]

TITLE

Deputy Oil & Gas Inspector,
District #3

DATE

APR 01 2008

Conditions of Approval (if any):

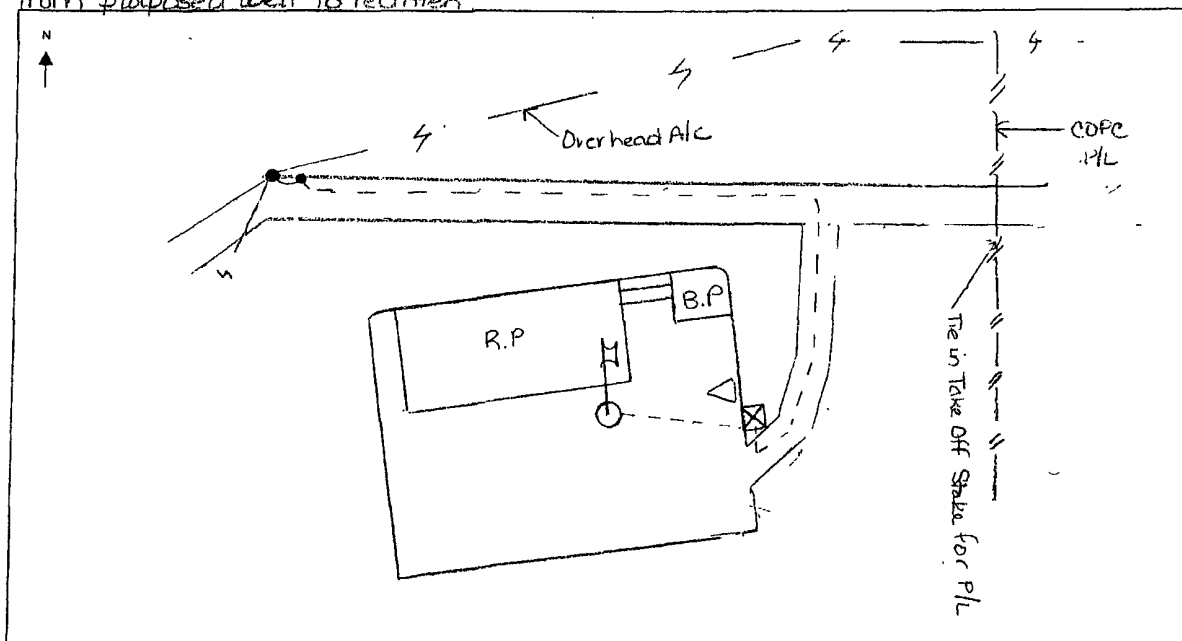


TECHNICAL SERVICES
A CORROSION COMPANY

CATHODIC PROTECTION PLAN FOR NEW WELLS

WELL NAME Angel Peak B #27E LEGALS 25-28-11 COUNTY San Juan

PURPOSED C.P. SYSTEM: Drill GB and set rectifier on E side of location (N side of access road). Set meter pole of span pole to west of location. Trench approx 750' of A/C from MP down main road and access to rectifier. Trench approx 200' of #8 mag from proposed well to rectifier.



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

COMMENTS:

NEAREST POWER SOURCE Overhead A/C DISTANCE: 750'
PIPELINES IN AREA: COFC P/L

TECHNICIAN: Michelle Hernandez DATE: 8/2/07

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

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

ANGEL PEAK B 27E

DEVELOPMENT

Lease:		AFE #: WAN.ZA.0508				AFE \$: 957,431.69	
Field Name: hBR_SAN JUAN		Rig: Aztec Rig 673		State: NM	County: SAN JUAN		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						
FRR	BASIN DAKOTA (PRORATED GAS)						
Location: Surface Datum Code: NAD 27 Deviated							
Latitude: 36.640265	Longitude: -107.961274	X:	Y:	Section: 25	Range: 011W		
Footage X: 675 FWL	Footage Y: 105 FNL	Elevation: 5818	(FT)	Township: 028N			
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27 Deviated							
Latitude: 36.637118	Longitude: -107.961186	X:	Y:	Section: 25	Range: 011W		
Footage X: 700 FWL	Footage Y: 1250 FNL	Elevation:	(FT)	Township: 028N			
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2008		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 5832 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	200	5632	<input type="checkbox"/>			12-1/4" hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 159 cu. ft. Circulate cement to surface.	
OJO ALAMO	624	5208	<input type="checkbox"/>			Azimuth ~ 228 degrees	
KIRTLAND	844	4988	<input type="checkbox"/>				
FRUITLAND	1219	4613	<input type="checkbox"/>			Possible Gas	
PICTURED CLIFFS	1797	4035	<input type="checkbox"/>			Datum 7' deeper than Angel Peak B #31	
LEWIS	1897	3935	<input type="checkbox"/>				
CHACRA	2739	3093	<input type="checkbox"/>				
UPPER CLIFF HOUSE	3322	2510	<input type="checkbox"/>				
MASSIVE CLIFF HOUSE	3359	2473	<input type="checkbox"/>			Gas	
MENELEE	3459	2373	<input type="checkbox"/>				
Intermediate Casing	3600	2232	<input type="checkbox"/>			8 3/4" Hole. 7", 23 ppf, L-80, LTC Casing. Cement with 863 cu. ft. Circulate cement to surface.	
MASSIVE POINT LOOKOUT	4141	1691	<input type="checkbox"/>				
MANCOS	4599	1233	<input type="checkbox"/>				
UPPER GALLUP	5366	466	<input type="checkbox"/>				
GREENHORN	6130	-298	<input type="checkbox"/>				
GRANEROS	6186	-354	<input type="checkbox"/>				
TWO WELLS	6221	-389	<input type="checkbox"/>	750		Gas	
PAGUATE	6300	-468	<input type="checkbox"/>			Lowest topset perf @ Paguate plus 50' (6350' TVD & -518' SS)	
CUBERO	6377	-545	<input type="checkbox"/>			Top-set TD = Cubero plus 40'.	
TOTAL DEPTH DK	6417	-585	<input type="checkbox"/>			6-1/4" Hole. 4-1/2", 11.6 ppf, L-80 LTC casing. Cement with 387 cu. ft. Circulate cement a minimum of 100' inside the previous casing string.	
ENCINAL	6423	-591	<input type="checkbox"/>				

PROJECT PROPOSAL - New Drill / Sidetrack

ANGEL PEAK B 27E

DEVELOPMENT

BURRO CANYON	6439	-607	<input type="checkbox"/>	
MORRISON	6513	-681	<input type="checkbox"/>	Top-set TD = Cubero plus 40'.
TD	6513	-681	<input type="checkbox"/>	Drill-out TD ~ Morrison top of above.

Reference Wells:

Reference Type	Well Name	Comments
Production	Angel Peak B 31	NW25-28-11
Production	Ohio C Govt 2E	NE26-28-11
Production	Angel Peak B 25	SW24-28-11
Production	Angel Peak B 27	SW25-28-11

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 top-set TD and from top-set TD to final TD. Mudlogger will call TDs.

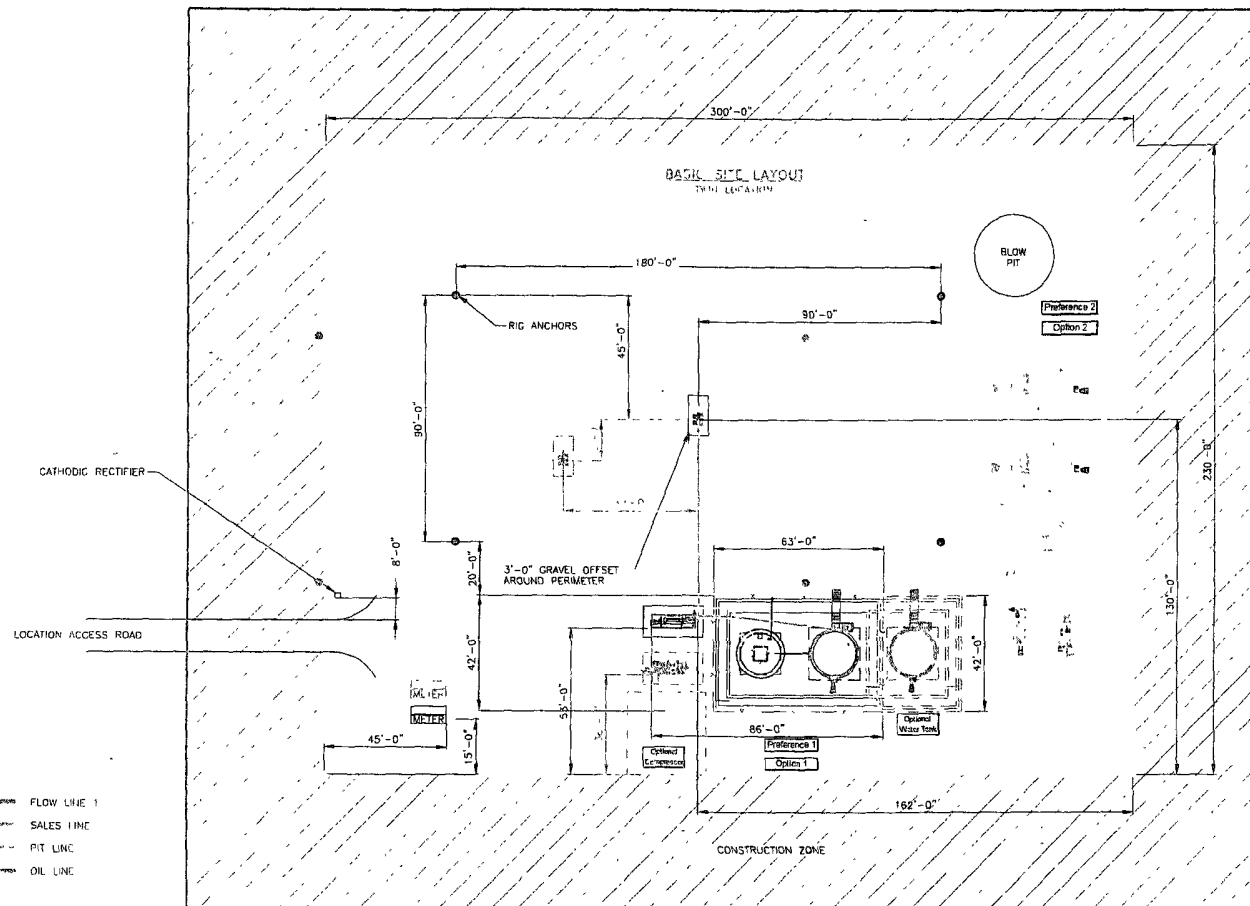
Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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ConocoPhillips or its affiliates
Planning Report


Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Angel Peak B #27E
Company:	ConocoPhillips Lower 48	TVD Reference:	Generic Rig RKB @ 5833.0ft (Generic Rig)
Project:	San Juan Basin	MD Reference:	Generic Rig RKB @ 5833.0ft (Generic Rig)
Site:	Russell's Site for Directional MV/DK wells	North Reference:	True
Well:	Angel Peak B #27E	Survey Calculation Method:	Minimum Curvature
Wellbore:	Angel Peak B #27E		
Design:	APD Well Plan		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (d)	Dip Direction (d)	
624.9	624.0	Ojo Alamo		0.00		
849.7	844.0	Kirtland		0.00		
1,251.9	1,219.0	Fruitland		0.00		
1,893.6	1,797.0	Pictured Cliffs		0.00		
2,004.6	1,897.0	Lewis		0.00		
2,939.3	2,739.0	Chacra		0.00		
3,553.3	3,322.0	Upper Cliffhouse		0.00		
3,590.7	3,359.0	Mass. Cliffhouse		0.00		
3,691.2	3,459.0	Menefee		0.00		
4,373.3	4,141.0	Pt. Lookout		0.00		
4,831.3	4,599.0	Mancos Shale		0.00		
5,598.3	5,366.0	Gallup		0.00		
6,362.3	6,130.0	Greenhorn		0.00		
6,418.3	6,186.0	Graneros		0.00		
6,453.3	6,221.0	Two Wells		0.00		
6,532.3	6,300.0	Paguate		0.00		
6,609.3	6,377.0	Cubero		0.00		
6,649.3	6,417.0	TD		0.00		



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

SHEET 1 OF 5

										ENGINEERING REVIEW		REFERENCE DRAWINGS		 SAN JUAN BUSINESS UNIT		CONOCOPHILLIPS HIGH PRESSURE 3 PHASE FACILITY DIAGRAM- SITE LAYOUT			
										DISCIPLINE REVIEWED DATE		NO DESCRIPTION				CLIENT No	CUSTOMER NAME	ISSUE DATE	
										PROCESS				HP3PHASE-REV1		DRAWN BY		SCALE NAME	REVISION DATE
										MECHANICAL									
										PIPING									
										ELECTRICAL									
										I & C									
										CIVIL/STRUCTURAL									
										PROJECT									
DESCRIPTION										DATE	BY	CHK'D	ENG	DSC	REL				

\\conocophillips\conocophillips\regulatory\San Juan Location Site Layouts\09/25/2007 - 09/25/2007

[illegible]

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.

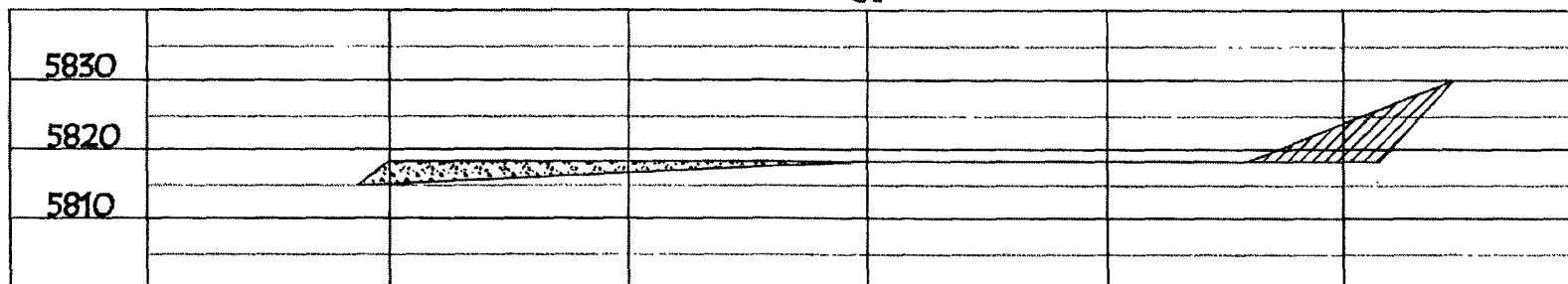
LATITUDE: 36°38.4159'N LONGITUDE: 107° 57.6765'W NAD27

BURLINGTON RESOURCES OIL & GAS COMPANY LP
 ANGEL PEAK B 27E, 105' FNL & 675' FWL
 SECTION 25, T-28- N, R-11-W, NMPM, SAN JUAN COUNTY, NM
 GROUND ELEVATION: 5818', DATE: DECEMBER 22, 2005

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

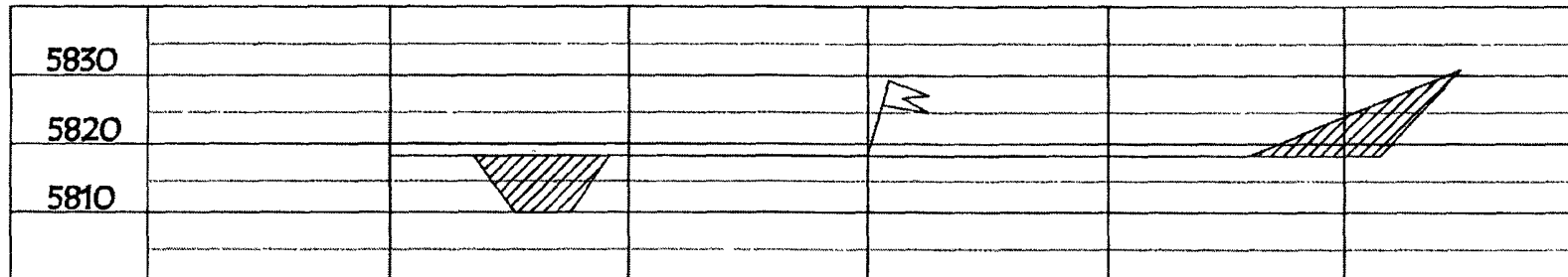
ELEV. A-A'

CL



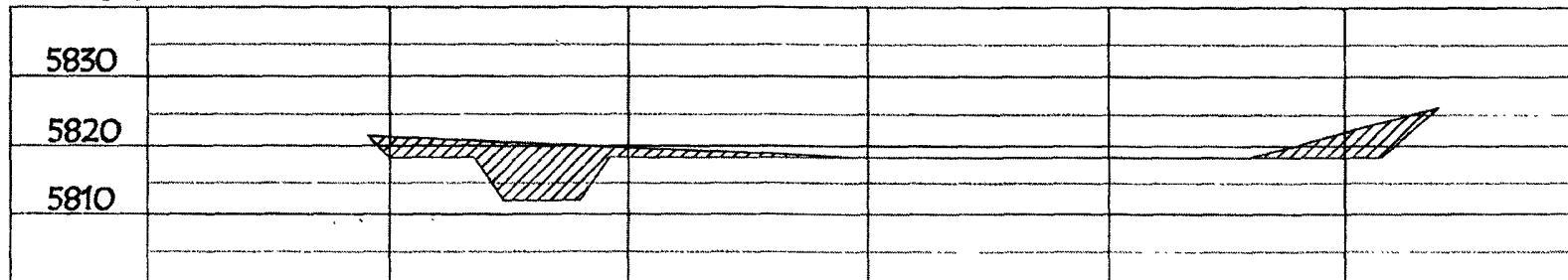
ELEV. B-B'

CL



ELEV. C-C'

CL



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