

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

2007 FEB 20 PM 4:12

1a. Type of Work DRILL	5. Lease Number NMSF-080674	
1b. Type of Well GAS	Unit Reporting Number NMNM-78408B-DK	
2. Operator BURLINGTON RESOURCES Oil & Gas Company	6. If Indian, All. or Tribe	
3. Address & Phone No. of Operator PO Box 4289, Farmington, (505) 326-9700	7. Unit Agreement Name San Juan 27-4 Unit	
4. Location of Well Unit O (SW/SE), 180' FSL & 2060' FEL, Latitude 36° 33.11607183'N Longitude 107° 15.23073567'W	8. Farm or Lease Name	
	9. Well Number 60F	
	10. Field, Pool, Wildcat Basin Dakota	
	11. Sec., Twn, Rge, Mer. (NMPM) 0 Sec. 21, 27N, R04W API # 30-039-30203	
14. Distance in Miles from Nearest Town	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 180'		
16. Acres in Lease	17. Acres Assigned to Well DK - 320 E/2	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease		
19. Proposed Depth 8138'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6838' GL	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Patsy Chisot</u> Sr. Regulatory Specialist	Date	<u>2/19/07</u>



PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY [Signature] TITLE AFM DATE 5/7/07

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 3 - SEE MASTER PLAN.
DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".
PA ✓
NMOC
\$ 5/10
NOTIFY AZTEC OCD 24 HRS. PRIOR TO CASING & CEMENT
This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3185.4

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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 & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Fee Lease - 3 Copies
State Lease - 7 Copies
Submit to Appropriate District Office
Revised June 10, 2003
Form C-102

2007 FEB 20 PM 03 AM AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039 - 30203		² Pool Code 71599	³ Pool Name 210 BASIN DAKOTA T27N R4W
⁴ Property Code 7452	⁵ Property Name SAN JUAN 27-4		⁶ Well Number 60F
⁷ OGRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP		⁹ Elevation 6,838.1'

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
O	21	27-N	4-W		180	SOUTH	2060	EAST	RIO ARRIBA

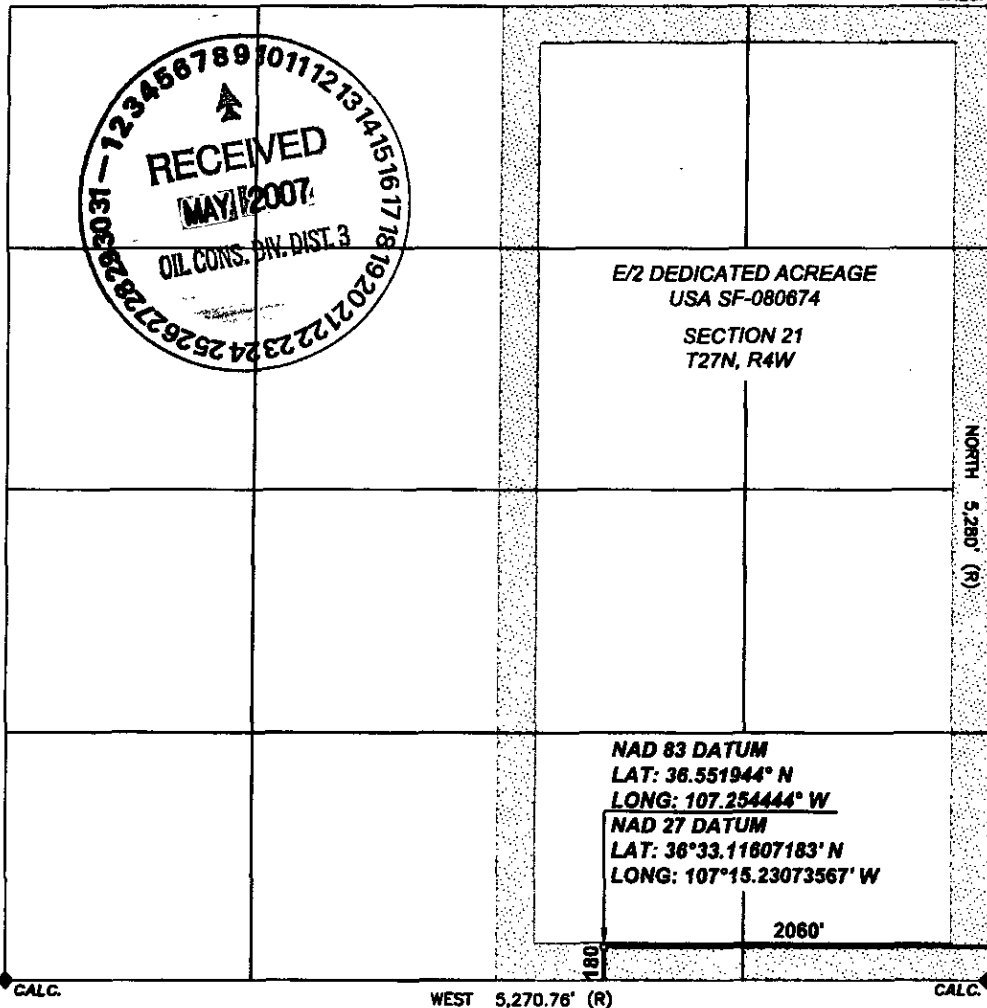
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O									

¹² Dedicated Acres 320	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, 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 heretofore entered by the division.

Tracey N. Monroe
Signature
Tracey N. Monroe
Printed Name
Regulatory Assistant
Title and E-mail Address
September 11 2006
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: 7/25/06
Signature and Seal of Professional Surveyor:

Henry P. Broadhurst
HENRY P. BROADHURST
NEW MEXICO
REGISTERED PROFESSIONAL SURVEYOR
07/21/06

Certificate Number: NM 11393

District I
1625 N. French Dr., Hobbs, NM 88240

Energy, Minerals and Natural Resources

May 27, 2004

District II
1301 W. Grand Ave., Artesia, NM 88210

OIL CONSERVATION DIVISION

WELL API NO. 30-039- **30203**

District III
1000 Rio Brazos Rd., Aztec, NM 87410

1220 South St. Francis Dr.

5. Indicate Type of Lease
STATE FEE

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

Santa Fe, NM 87505

6. State Oil & Gas Lease No.
SF-080674

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.)

7. Lease Name or Unit Agreement Name
San Juan 27-4 Unit

1. Type of Well:
Oil Well Gas Well Other

8. Well Number
60F

2. Name of Operator
BURLINGTON RESOURCES OIL & GAS COMPANY LP

9. OGRID Number
14538

3. Address of Operator
3401 E. 30TH STREET, FARMINGTON, NM 87402

10. Pool name or Wildcat
Basin Dakota

4. Well Location
Unit Letter O : 180' feet from the South line and 2060' feet from the East line
Section 21 Township 27N Rng 4W NMPM County Rio Arriba

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
6,838.1'

Pit or Below-grade Tank Application or Closure

Pit type New Drill Depth to Groundwater <50' Distance from nearest fresh water well >1000' Distance from nearest surface water <100'

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
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 Pit 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 and an associated vent/flare pit. Based on Burlington's interpretation of the Ecosphere's risk ranking criteria, the new drilling pit will be a lined pit 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 Patsy Clugston TITLE Sr. Regulatory Specialist DATE 2/20/2007

Type or print name Patsy Clugston E-mail address: pclugston@br-inc.com Telephone No. 505-326-9700

APPROVED BY [Signature] TITLE DEPUTY OIL & GAS INSPECTOR, DIST. #1 DATE 5/10/07

Conditions of Approval (if any): vulnerable area pits must be closed accordingly

B

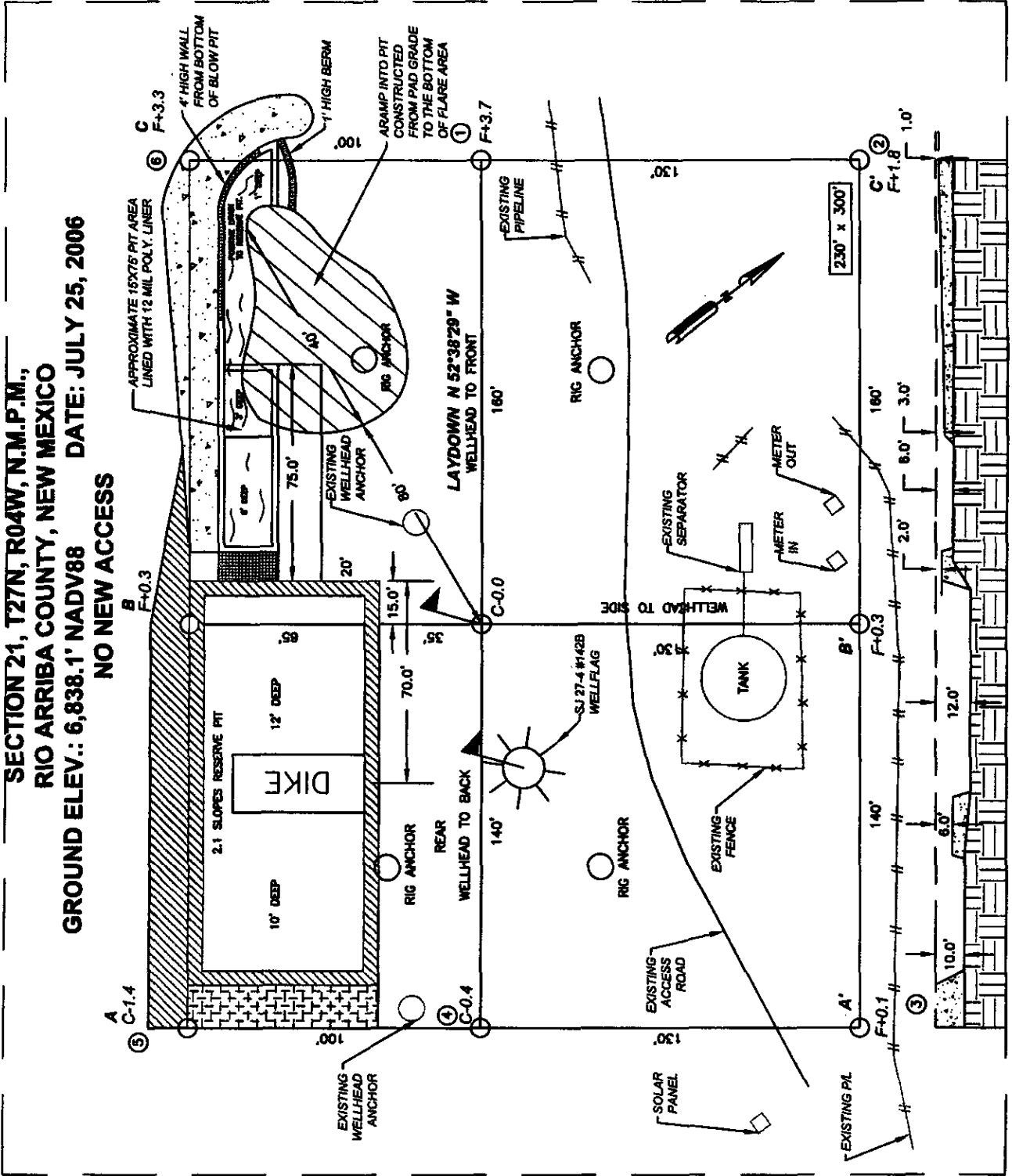
BURLINGTON RESOURCES OIL & GAS COMPANY LP

SAN JUAN 27-4 UNIT 60F
180' FSL, 2060' FEL

SECTION 21, T27N, R04W, N.M.P.M.,
RIO ARriba COUNTY, NEW MEXICO

GROUND ELEV.: 6,838.1' NADV88 DATE: JULY 25, 2006

NO NEW ACCESS



50' CONSTRUCTION ZONE

NOTES:

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

CCI

CHENAULT CONSULTING INC.

1300 W. BROADWAY
BLOOMFIELD, NM, 87413
PHONE: (505)932-7777

PIT CROSS SECTION

NAD 83 LAT.: 36.551944° N LONG.: 107.254444° W

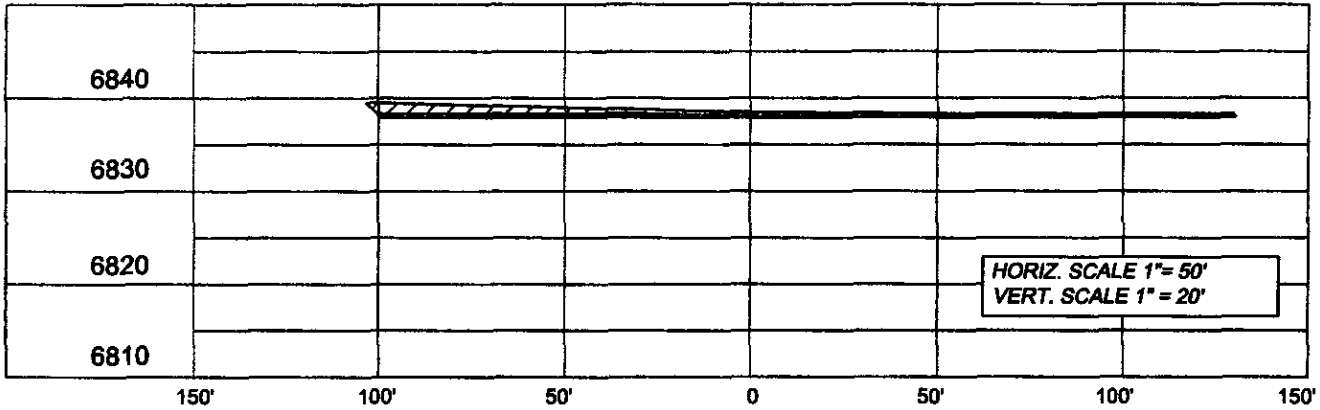
330' x 400' = 3.03 ACRES

BURLINGTON RESOURCES OIL & GAS COMPANY LP

SAN JUAN 27-4 UNIT 60F
 180' FSL, 2060' FEL
 SECTION 21, T27N, R04W, N.M.P.M.,
 RIO ARRIBA COUNTY, NEW MEXICO
 ELEV.: 6,838.1' NADV88

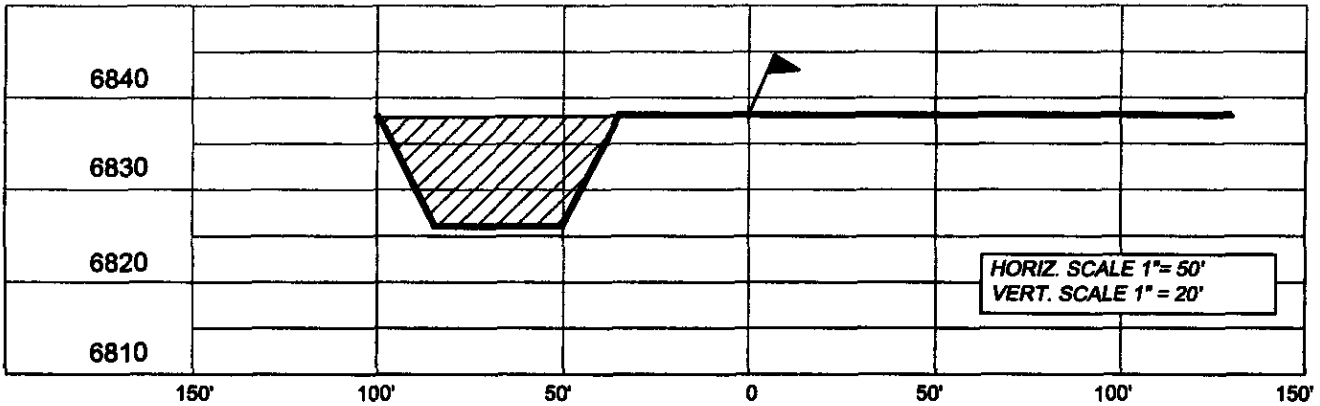
A - A'

C/L



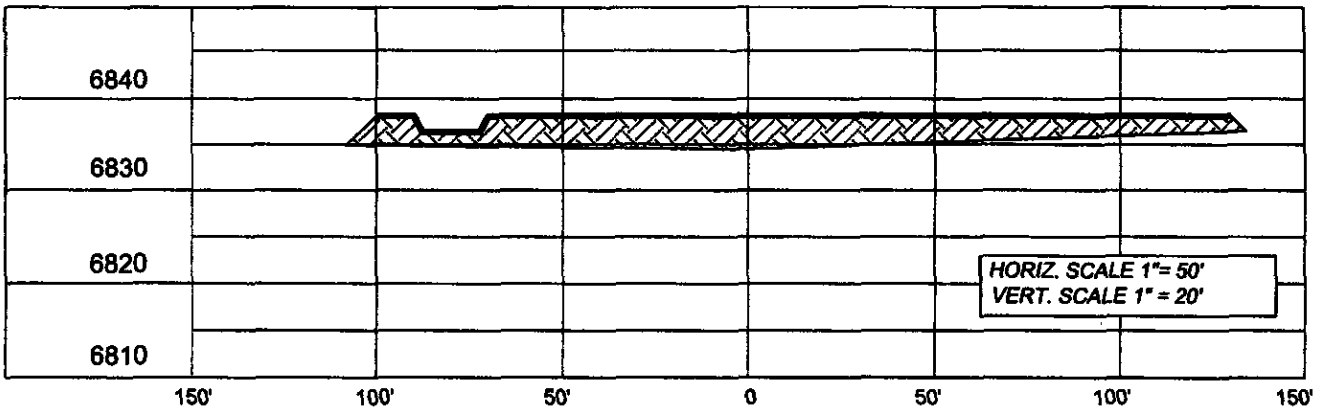
B - B'

C/L



C - C'

C/L



NOTE: CCI 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 PRIOR TO CONSTRUCTION.

REVISIONS			
NO.	DESCRIPTION	REVISED BY	DATE

CCI
 1300 W. BROADWAY
 BLOOMFIELD, NM, 87413
 PHONE: (505)632-7777
CHEHAULT CONSULTING INC.

PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 27-4 UNIT 60F

Lease:		AFE #: WAN.ZA2.7206		AFE \$: 638,878.20	
Field Name: hBR_SAN JUAN 27-4 UNIT		Rig: XX 2008 27N		State: NM	County: RIO ARRIBA
Geoscientist: Head, Chip F		Phone: 505-326-9772		Prod. Engineer: Phone:	
Res. Engineer: Prabowo, Wahyu		Phone: 832-486-2275		Proj. Field Lead: Phone:	

Primary Objective (Zones):

Zone	Zone Name
R20076	DAKOTA(R20076)

Location: Surface Datum Code: NAD 27 Straight Hole

Latitude: 36.551934	Longitude: -107.253845	X:	Y:	Section: 21	Range: 004W
Footage X: 2060 FEL	Footage Y: 180 FSL	Elevation: 6838 (FT)	Township: 027N		

Tolerance:

Location Type: Summer Only	Start Date (Est.):	Completion Date:	Date In Operation:
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Formation Data: Assume KB = 6850 Units = FT

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	216	6634	<input type="checkbox"/>			12-1/4" hole, 9-5/8" 32.3 ppf, H-40, STC casing. Cement w/ 203 cuft. <i>Circulate Cement to Surface</i> Possible water flows.
OJO ALAMO	3069	3781	<input type="checkbox"/>			
KIRTLAND	3281	3569	<input type="checkbox"/>			
FRUITLAND	3479	3371	<input type="checkbox"/>			Possible gas.
PICTURED CLIFFS	3709	3141	<input type="checkbox"/>			Upper fms to Point Lookout flat to twin 27-4 #142B
LEWIS	3771	3079	<input type="checkbox"/>			
Intermediate Casing	3871	2979	<input type="checkbox"/>			8-3/4" Hole. 7", 20 ppf, J-55, STC Casing. Cement with 862 cuft. Circulate cement to surface.
HUERFANITO BENTONITE	4189	2661	<input type="checkbox"/>			
CHACRA	4646	2204	<input type="checkbox"/>			
UPPER CLIFF HOUSE	5261	1589	<input type="checkbox"/>			
MASSIVE CLIFF HOUSE	5379	1471	<input type="checkbox"/>			
MENELEE	5509	1341	<input type="checkbox"/>	750		Gas
MASSIVE POINT LOOKOUT	5849	1001	<input type="checkbox"/>			
MANCOS	6366	484	<input type="checkbox"/>			
UPPER GALLUP	6867	-17	<input type="checkbox"/>			
GREENHORN	7814	-964	<input type="checkbox"/>	2000		Gas
GRANEROS	7878	-1028	<input type="checkbox"/>			
TWO WELLS	7901	-1051	<input type="checkbox"/>			
UPPER CUBERO	8033	-1183	<input type="checkbox"/>			
LOWER CUBERO	8074	-1224	<input type="checkbox"/>			Flat to 27-4 # 101
OAK CANYON	8118	-1268	<input type="checkbox"/>			
ENCINAL	8138	-1288	<input type="checkbox"/>			
TD	8138	-1288	<input type="checkbox"/>			6-1/4" Hole. 4-1/2", 10.50#/11.60#, J-55/N-80, STC/LTC Casing. Cement with 581 cuft. Circulated cement a minimum of 100' inside previous casing string. No open hole logs. Cased hole TDT with GR to surface.

Reference Wells:

Reference Type	Well Name	Comments
Intermediate	SJ 27-4 Unit 142B	Twin - SWSE 21-27n-04w

PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 27-4 UNIT 60F

Intermediate	SJ 27-4 Unit 56	SW 21-27n-04w
Intermediate	SJ 27-4 Unit 101	NE 28-27n-04w

Logging Program:

Intermediate Logs: Log only if show GR/ILD Triple Combo

TD Logs: Triple Combo Diameter RFT Sonic VSP TDT Other
GR/CBL

Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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Comments: Location/Tops/Logging - DK 27N04W21SE1 - Estimated bottom perf 8113

Zones - DK 27N04W21SE1