

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

JAN 02 2009

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Bureau of Land Management
Farmington Field Office

REC'D JAN 12 09
BLM O&G DIV.
DIST. 3

1a. Type of Work DRILL	5. Lease Number USA NM 0284- 03187 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 Cain 9. Well Number 1C	
4. Location of Well Unit F (SENW), 1455' FNL & 1895' FWL Latitude 36.887224 N Longitude 107.908462 W	10. Field, Pool, Wildcat Basin Dakota/Blanco MV 11. Sec., Twn, Rge, Mer. (NMPM) F Sec. 20, T31N, R10W API # 30-045- 34889	
14. Distance in Miles from Nearest Town 80. Miles/Aztec, NM	12. County San Juan	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1895'	17. Acres Assigned to Well DK 328.00 (W/2) 323.22	
16. Acres in Lease 160.000		
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 1067.9' from Cain 1A/MV		
19. Proposed Depth 7347'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6032' GL	22. Approx. Date Work will Start DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Jamie Goodwin</u> Jamie Goodwin (Regulatory Technician)	12/31/08 Date	

PERMIT NO. APPROVAL DATE
APPROVED BY [Signature] TITLE AFM DATE 1/9/09

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

JAN 14 2009

NMOCD



H₂S POTENTIAL EXIST

A COMPLETE C-144 MUST BE SUBMITTED TO AND
APPROVED BY THE NMOCD FOR: A PIT, CLOSED
LOOP SYSTEM, BELOW GRADE TANK, OR
PROPOSED ALTERNATE METHOD, PURSUANT TO
NMOCD PART 19.15.17, PRIOR TO THE USE OR
CONSTRUCTION OF THE ABOVE APPLICATIONS.

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

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 7 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-34889	² Pool Code 71599 / 72319	³ Pool Name BASIN DAKOTA / BLANCO MESAVERDE
⁴ Property Code 18487	⁵ Property Name CAIN	⁶ Well Number 1C
⁷ OGRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	⁹ Elevation 6032

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
F	20	31-N	10-W	(6)	1455	NORTH	1895	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
F									
¹² Dedicated Acres 323.22	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						

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 FD. MON. 4 S 89°23' W S 89°24'58" W 5229.8' (R) 5226.3' (M) W/2 DEDICATED ACREAGE USA NM-03187 SECTION 20, T-31-N, R-10-W 1895' WELL FLAG NAD 83 LAT: 36.887224° N LONG: 107.908462° W NAD 27 LAT: 36°53.233254' N LONG: 107°54.470494' W	2659.8' (R) 2659.6' (M) 1455'	BLM 1968 2	1
5	6	7	8
12	11	10	9
13	14	15	16
BLM 1968		BLM 1968	


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.

James Gardenhire
Signature
James Gardenhire
Printed Name
Regulatory Technician
Title and E-mail Address
9/25/08
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: 7/18/08
Signature and Seal of Professional Surveyor:

Certificate Number: NM 11393

COMPANY
Charge Code
WELL NAME
DUAL WELL
TRIPLE WELL

BURLINGTON RESOURCES		
WAN.RFE.PD08.F2		
CAIN # 1 C	DATE	7/9/2008
WELL NAME		
WELL NAME		

COORDINATES

SEC	TNSHP	RANGE	LATITUDE	LONGITUDE
F 20	31 N	10 W	36.884620 N	107.907999

COUNTY

SAN JUAN

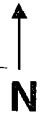
RECTIFIER
SOLAR
GROUND BED
240 V METER POLE
480 V METER POLE
D C CABLES
A C CABLES
PRIMARY POWER
DISTANCE TO POWER
UNDERGROUND
PUMPJACK
WATER PUMP

SIZE	NEEDED	EXISTING	1 PHASE	3 PHASE
(12/4)	X			
	X			
# 8	200'			
			CITY OF FMN	
			3100'	

COMMENTS

CITY OF FMN PRIMARY POWER 3100'
ROCK AND CLAY
INSTALL SINGLE WELL SOLAR SYSTEM

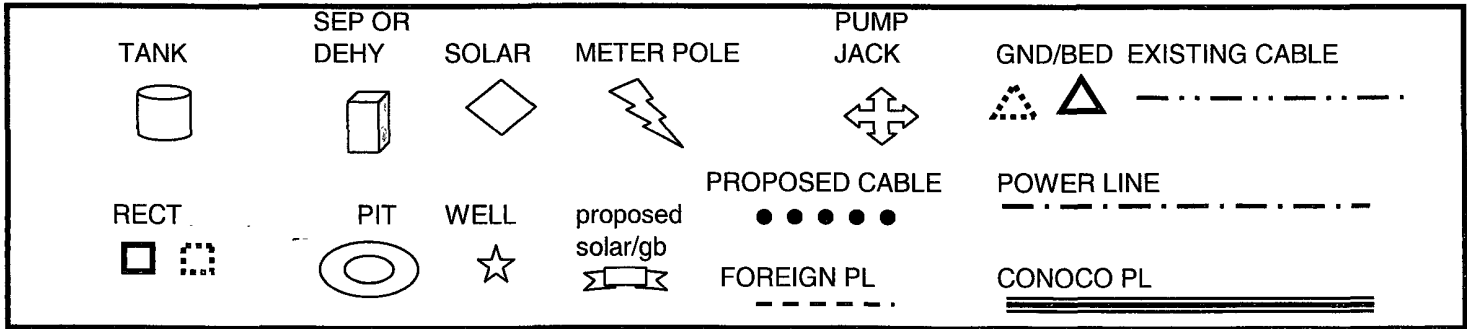
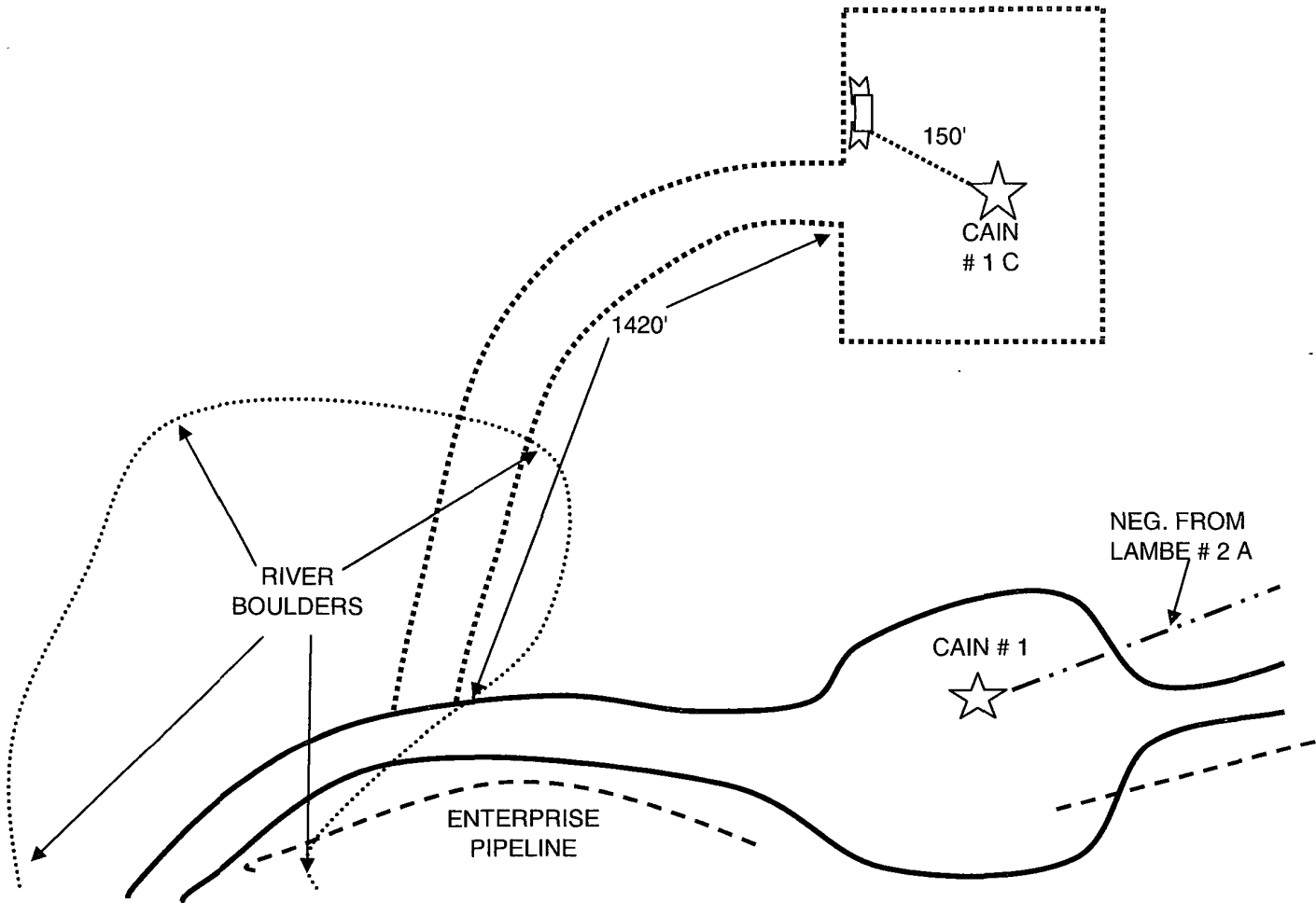
WELL NAME	CAIN # 1 C
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1 PHASE CITY OF FMN PRIMARY 3100'

INSTALL SINGLE WELL SOLAR SYSTEM

ROCK AND CLAY



PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

CAIN 1C

DEVELOPMENT

Lease:		AFE #: WAN.CDR.8160			AFE \$:	
Field Name: hBR_SAN JUAN		Rig: Aztec Rig 711		State: NM	County: SAN JUAN	API #:
Geologist:		Phone:	Geophysicist:		Phone:	
Geoscientist:		Phone:	Prod. Engineer:		Phone:	
Res. Engineer: McKee, Cory J		Phone: +1 505-326-9826	Proj. Field Lead:		Phone:	
Primary Objective (Zones):						
Zone	Zone Name					
FRR	BASIN DAKOTA (PRORATED GAS)					
RON	BLANCO MESAVERDE (PRORATED GAS)					
Location: Surface Datum Code: NAD 27						
Latitude: 36.887221		Longitude: -107.907841		X:	Y:	Section: 20 Range: 010W
Footage X: 1895 FWL		Footage Y: 1455 FNL		Elevation: 6032 (FT)	Township: 031N	
Tolerance:						
Location Type: Restricted		Start Date (Est.): 1/1/2009		Completion Date:		Date In Operation:
Formation Data: Assume KB = 6044 Units = FT						
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	200	5844	<input type="checkbox"/>			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 159 cuft. Circulate cement to surface.
OJO ALAMO	1304	4740	<input type="checkbox"/>			
KIRTLAND	1393	4651	<input type="checkbox"/>			
FRUITLAND	2164	3880	<input type="checkbox"/>			Possible Gas
PICTURED CLIFFS	2768	3276	<input type="checkbox"/>			
LEWIS	2906	3138	<input type="checkbox"/>			
Intermediate Casing	3006	3038	<input type="checkbox"/>			8 3/4" Hole. 7", 20 ppf, J-55, STC Casing. Cement with 677 cuft. Circulate cement to surface.
HUERFANITO BENTONITE	3465	2579	<input type="checkbox"/>			
CHACRA	3824	2220	<input type="checkbox"/>			
MASSIVE CLIFF HOUSE	4521	1523	<input type="checkbox"/>	399		Gas
MENEFEE	4607	1437	<input type="checkbox"/>			
POINT LOOKOUT	5002	1042	<input type="checkbox"/>			
MANCOS	5289	755	<input type="checkbox"/>			
UPPER GALLUP	6256	-212	<input type="checkbox"/>			
GREENHORN	7003	-959	<input type="checkbox"/>			
GRANEROS	7052	-1008	<input type="checkbox"/>			
TWO WELLS	7107	-1063	<input type="checkbox"/>	2759		Gas
PAGUATE	7193	-1149	<input type="checkbox"/>			
CUBERO	7237	-1193	<input type="checkbox"/>			
Total Depth	7347	-1303	<input type="checkbox"/>			6-1/4" hole, 4-1/2" 10.5/11.6 ppf, J-55, STC/LTC casing. Cement w/ 591 cuft. Circulate cement a minimum of 100' inside the previous casing string.
ENCINAL	7347	-1303	<input type="checkbox"/>			
Reference Wells:						
Reference Type	Well Name		Comments			

PROJECT PROPOSAL - New Drill / Sidetrack

CAIN 1C

DEVELOPMENT

Logging Program:

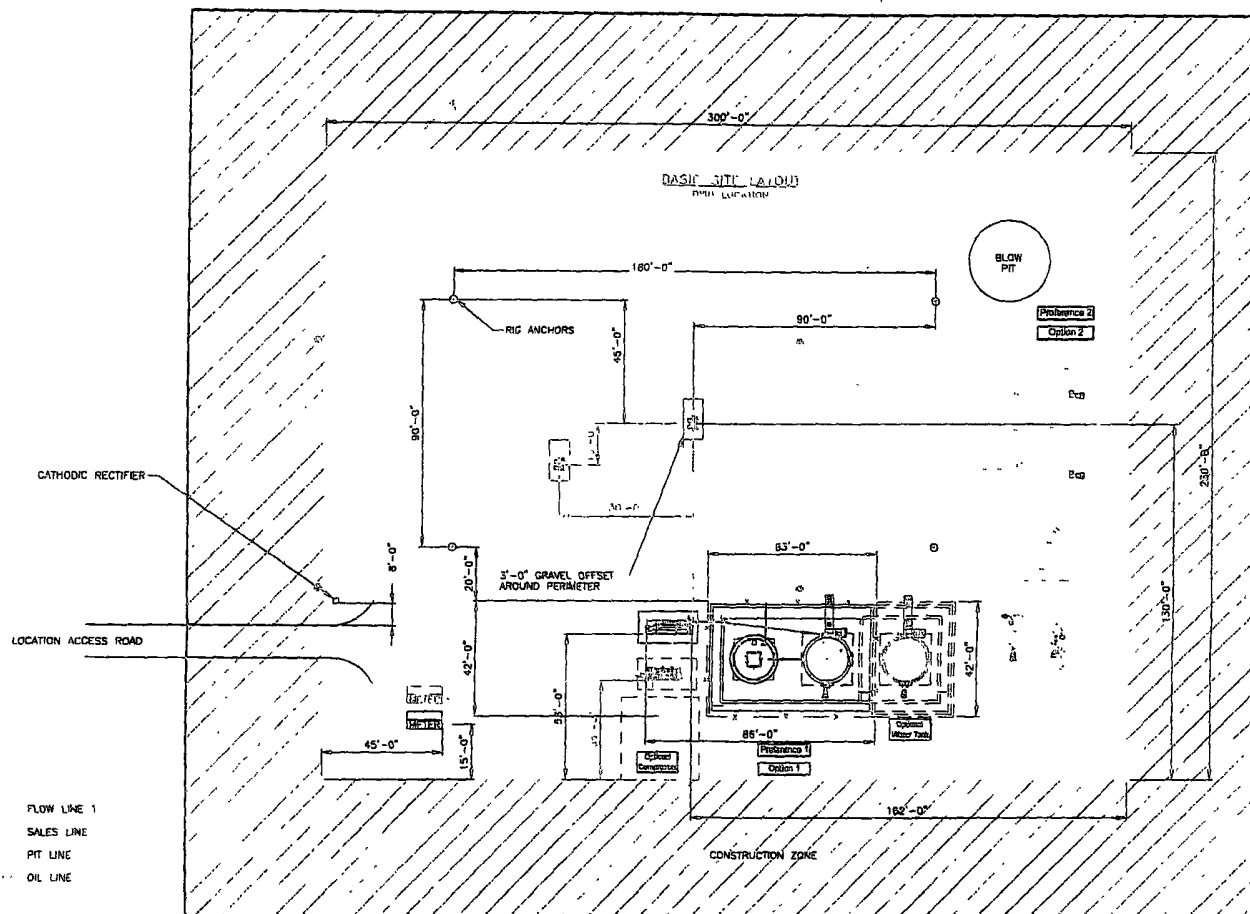
Intermediate Logs: ☐ Log only if show ☐ GR/ILD ☐ Triple Combo

TD Logs: ☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other

Est bottom perf ~20' above the est TD.

Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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SEE SHEET 3 & 4 FOR Piping DETAILS
ALL UNDERGROUND PIPE IS TO BE COVERED & MIN. OF 3'-0" TOP

SHEET 1 OF 5

										ENGINEERING REVIEW			REFERENCE DRAWINGS		CONOCOPHILLIPS		HIGH PRESSURE 3 PHASE FACILITY DIAGRAM- SITE LAYOUT			
										PROCESS	DESIGNER	REVIEWER	DATE	NO.	DESCRIPTION			CLIENT NO.	CLIENT APPR.	APPR. DATE
										DESIGNER								SCALE LINE	CHECKED DATE: 6/20/97	
										PROCESS										
										ELECTION										
										T & C										
										CON. JOURNALING										
										PROJECT										
										DATE	BY	CHK'D	CHK'D	DATE	REV					

HP3 PHASE - SAN JUAN BUSINESS UNIT - HP3 PHASE - SAN JUAN BUSINESS UNIT - HP3 PHASE - SAN JUAN BUSINESS UNIT

BURLINGTON RESOURCES OIL & GAS COMPANY LP

CAIN 1C

1455' FNL, 1895' FWL

SECTION 20, T-31-N, R-10-W, N.M.P.M.,

SAN JUAN COUNTY, NEW MEXICO

NAD 83 LAT.: 36.887224°N LONG.: 107.908462°W

ELEV.: 6032 NAVD88

NEW ACCESS 327.3'

FROM THE INTERSECTION OF HWY. 550 AND AZTEC BLVD. (SUNDIAL CONOCO STORE) IN AZTEC, N.M.

- GO 4.1 MILES NORTH ON HWY. 550 TO HART CANYON, C.R. 2770. TURN RIGHT.
- GO 2.8 MILES EAST INTO HART CANYON. TURN LEFT (NORTH) AND GO BY THE ENTERPRISE CDP #1.
- GO 0.6 MILES NORTH UP HILL ONTO THE MESA AND TURN LEFT (WEST).
- GO 0.5 MILES WEST THEN BEGIN 327.3 FT. NEW ACCESS ON LEFT (SOUTH) SIDE OF THE ROAD, NORTH SIDE OF CAIN 1C WELL LOCATION.