0

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK 5. Lease Number 1a. Type of Work BLM'S APPROVAL OR ACCEPTANCE OF THIS DRILL SF-078385A ACTION DOES NOT RELIEVE THE LESSEE AND Unit Reporting Number OPERATOR FROM OBTAINING ANY OTHER 1b. Type of Well AUTHORIZATION REQUIRED FOR OPERATIONS If Indian, All. or Tribe ON FEDERAL AND INDIAN LANDS GAS 2. 7. Unit Agreement Name Operator BURLINGTON ... RESCURCES Oil & Gas Company, LP 3. Address & Phone No. of Operator 8. Farm or Lease Name PO Box 4289, Farmington, NM 87499 Howell 9. Well Number (505) 326-9700 1R 10. Field, Pool, Wildcat 4. Location of Well Blanco MV / Basin DK Surface: Unit F(SENW), 2492' FNL & 1329' FWL 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 23, T30N, R8W Surface: Latitude: (NAD83) 36.797436° N Longitude: 107.649548° W API# 30-045-3 5276 14. Distance in Miles from Nearest Town 12. County 13. State 24.4 miles from Bloomfield, NM San Juan NM 15. Distance from Proposed Location to Nearest Property or Lease Line 1329 16. Acres in Lease 17. Acres Assigned to Well 320.00 acres W/2 1280.00 acres Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 18. 738' from Howell L 300 (FC) 19. **Proposed Depth** 20. Rotary or Cable Tools 7547 ' Rotary 21. 22. Approx. Date Work will Start Elevations (DF, FT, GR, Etc.) 23. **Proposed Casing and Cementing Program** See Operations Plan attached ril 6, 201, 24. Authorized by: Busse (Staff Regulatory Tech) APPROVAL DATE PERMIT NO. APPROVED BY A gas recovery unit may or may not be used on this location. 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 NMOCD M

(10

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

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

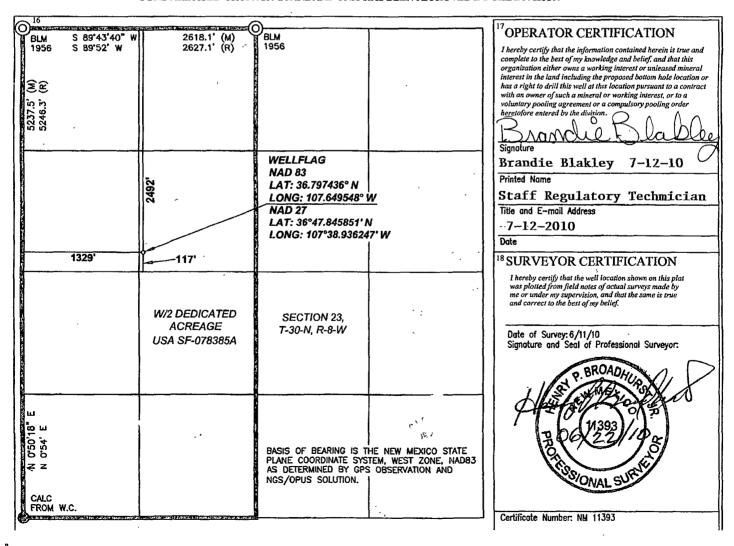
-1220 S. St. Francis-Dr., Santa Fe, NM-87505

District IV

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-045		Pool Code 9/7231	9	³ Pool Name BASIN DAKOTA / BLANCO MESAVERDE						
⁴ Property Coo 7118	le			⁶ Well Number 1B						
⁷ OGRID N 14538	0.			⁹ Elevation 6148						
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	· 23	30-N	8-W		2492	NORTH	1329	WEST	SAN JUAN	
			11 E	Bottom H	ole Location	If Different Fro	m Surface		-	
UL or lot no.	Section	Township	Range			North/South line	Feet from the	East/West line	County	
12 Dedicated Acres	¹³ Joint	or Infill	Consolidation	n Code	Order No.					
320.0		ļ								

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





PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

HOWELL 1B DEVELOPMENT

						Т			·			
Lease:						AFE #: WA	AN.CDR	1			AFE \$: 0.00	
Field Name: SAN	JUAN			Rig: A	ztec Rig 67	73		State	e: NM	County: SAN JUAN	API #:	
Geologist:				Phone:			+	hysicist:			hone:	
Geoscientist:				Phone:			Prod. Engineer:			Pl	hone:	
				Phone				Proj. Field Lead:			hone:	
Primary Object				<u>. 195</u>	Mary Land			detail.				
Zone	1	Name	/DDODATE	D 040	<u> </u>							
FRR BASIN DAKOTA (PRORAT RON BLANCO MESAVERDE (PI			<u> </u>		<u> </u>							
, , , , , , , , , , , , , , , , , , ,	100	OO WILDAY	TENDE (TT		LD G/10)							
Location: Surfa	ce 🧓	ON D	atum Coc	le: N/	\D 27	阿纳纳					Straight Hole	
Latitude: 36.797431 Longitude: -107.6			e: -107.64	548937 X:			Y: Section: 23			Section: 23	Range: 008W	
Footage X: 1329 FWL Footage Y: 2492		Y: 2492 FN	FNL Elevation: 6148		: 6148	(FT)	Townsh	nship: 030N				
Tolerance:	1											
Location Type: Y	ear Ro	und		Start Date (Est.): 1/1/2012			Completion Date: Da			Date In O	ate In Operation:	
Formation Data:	Assu	me KB = 6	5163 L	Jnits =	: FT							
Formation Call & Casing Points		(Depth TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	внт		Remarl	ks	
Surface Casing			200	5963	3					hole. 200' 9 5/8" 32.3 p t with 119 cuft. Circulate		
NACIMIENTO			457	5706								
OJO ALAMO			1847	4316	 5							
KIRTLAND			2029	4134			-					
FRUITLAND 2495			2495	3668	3				Possib	e Gas		
PICTURED CLIFFS	3		2988	3175	5							
LEWIS			3125	3038	3							
Intermediate Casing 3225		3225	2938	3			119	8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 727 cuft. Circulate cement to surface.				
HUERFANITO BENTONITE 3673				2490)							
CHACRA 4022		4022	2141	L				Est. Top Perf - 4024 (2139)				
UPPER CLIFF HOUSE 4606		4606	1557	7				Gas; Cliffhouse is dry				
MASSIVE CLIFF H	OUSE		4727	1436	5		232		Gas			
MENEFEE			4833	1330)							
POINT LOOKOUT			5211	952								
MANCOS			5530	633								
UPPER GALLUP			6481	-318	3							
GREENHORN			7213	-105	0							
GRANEROS			7269	-110	6							
TWO WELLS			7333	-117	0		334	9	Gas		•	
PAGUATE			7407	-124	4							
UPPER CUBERO			7427	-126	4							
LOWER CUBERO			7456	-129	3				Est. Bt	m Perf - 7527 (- 1364) t	pased on offset wells	
ENCINAL			7517	-135	4					0' below T/ENCN		
Total Depth			7547	-138	4			208	Cemer	hole, 4-1/2" 10.5/11.6 p at w/ 588 cuft. Circulate co the previous casing string	opf, J-55, STC/LTC casing ement a minimum of 100'	

Printed on: 4/6/2011 12:00:24 PM



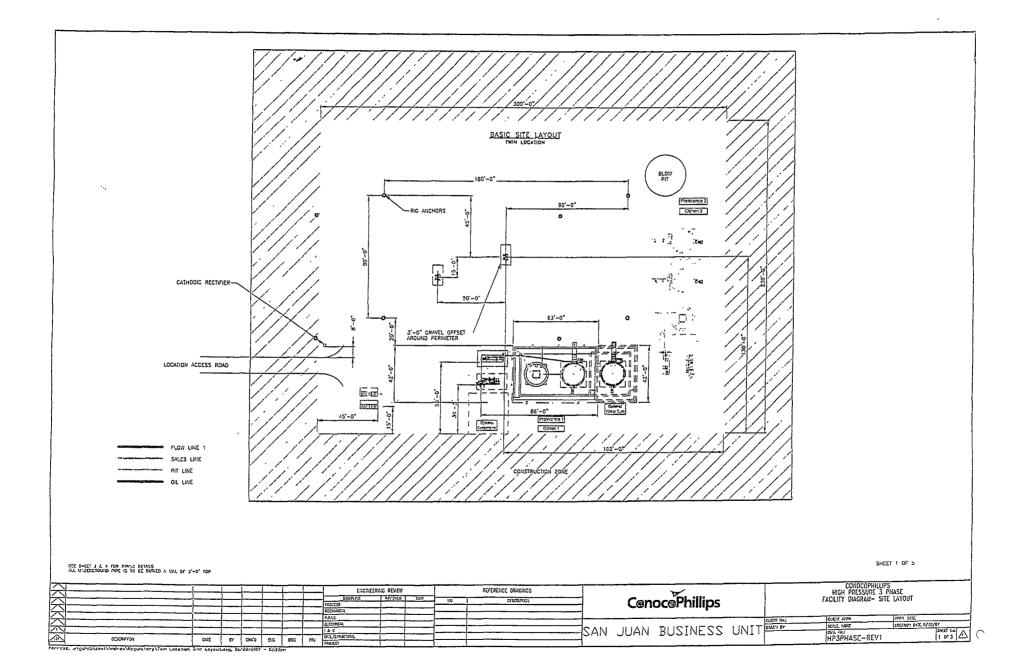
PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

HOWELL 1B

DEVELOPMENT

Reference Well	Si ali ili ili ili ili ili ili ili ili il	Eggi - Pality until 3							
Reference Type	Well Name		Comments						
Production	France 1		30N 8W 23 NW SE SE						
Production	Lorraine Gas Com 1		30N 8W 26 SE NW NW						
Production	Gartner Gas Com B	1S	30N 8W 26 SE NW NW						
Intermediate Log	S: Log only if sho	w GR/ILD	☐ Triple Com	ibo					
			2						
TD Logs:	Triple Combo	Dipmeter	RFT Sc	onic 🗌 VSP 🔲 TDT 🗹 Otl	ner				
	Cased Hole GR / (Mudlog from 100'		LLP to TD - mud	ogger will call TD.					
Additional Inform									
Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks				



1

BURLINGTON RESOURCES OIL & GAS COMPANY LP

HOWELL 1B 2492' FNL, 1329' FWL SECTION 23, T-30-N, R-8-W, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO NAD 83 LAT.: 36.797436'N, LONG.: 107.649548'W ELEV.: 6148 NAVD88 NO NEW ACCESS

FROM BLOOMFIELD, NEW MEXICO:

- GO 11.7 MI. EAST ON HWY. 64. TURN LEFT ON HWY. 511 AND HEAD NORTH TOWARDS NAVAJO DAM.
- GO 8.0 MI. NORTH ON HWY. 511 TO NAVAJO DAM. TURN AROUND AT SPILLWAY AND HEAD SOUTH ON HWY. 539.
- GO 2.7 MI SOUTH ON HWY. 539. TURN RIGHT (WEST) ON DIRT ROAD.
- GO 0.8 MI. WEST. TURN LEFT AT ROAD INTERSECTION.
- GO 1.2 MI. WEST AND THEN NORTH. JUST PAST THE PIPE LINES CROSSING THE ROAD, ENTER THE STAKED WELL PAD. THE WELL FLAG IS 90 FEET RIGHT (EAST) OF ROAD.