NOTIFY AZTEC OCD 24 HRS. PRIOR TO CASING & CEMENT

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

1.

RECTIVED OCT 1 8 2011

_	APPLICATION FOR PERMIT TO DRILL, DEEPEN	H, OR FLUG BACK	Description of Land Manag
a.	Type of Work	5. Lease Number	
	DRILL	I-22-IND-277	
		Unit Reporting N	umper .
b.	Type of Well	6. If Indian, All. or T	ribe
	GAS	Ute Mountain	
2.	Operator Duni Inches	7. Unit Agreement	Name
	BURLINGTON RESCURCES Oil & Gas Company, LP		RCVD MAY 10'12
	HESSISHES OIL & Gas Company, Er		OIL CONS. DIV.
3.	Address & Phone No. of Operator	8. Farm or Lease N	ame
	PO Box 4289, Farmington, NM 87499	Ute Mountain	UteDIST.3
		9. Well Number	
	(505) 326-9700	112	
4.	Location of Well	10. Field, Pool, Wile	dcat
••	Surface: Unit O(SWSE), 462' FSL & 1391' FEL		onsaker Trail/
	·	Barker Dome I	smay
	Surface: Latitude: 36.996468° N (NAD83)	11. Sec., Twn, Rge, Sec. 11, T32N	
	Surface: Latitude: 36.996468° N (NAD83) Longitude: 108.274084° W	5eC. 11, 132N	, KI4W
	Hongrouds. 100.274004 W	API# 30-045-	25375
	0011 401		· · · · · · · · · · · · · · · · · · ·
14.	Distance in Miles from Nearest Town	12. County	13. State
	33 miles to Farmington	San Juan	NM
15.	Distance from Proposed Location to Nearest Property or Lease Li	ne	
	462'		
16.	Acres in Lease	17. Acres Assigned	d to Well
		202.0	, •
18.	Distance from Proposed Location to Nearest Well, Drlg, Compl, or	Applied for on this L	ease 7 S
	2368.5 UMU 88	, , , pp. 104 107 011 11110 1	e Tools
19.	Proposed Depth Approval of this agreement does not warrant or certify that the operator	20. Rotary or Cable	e Tools 를 🌂
	8954' thereof and other holders of operating	Rotary	[K
21.	rights hold legal or equitable title Elevations (DF, FT, GR, Etc.) to those rights in the subject lease	22. Approx. Date V	Work will Start
. I.	6964' GL which are committed hereto	LE. Applox. Date	
	in the standard stand	laring approved for 30 days	` <u>.</u>
23.		William California of the Control of	
	See Operations Plan attached printer	,	ı
24.	Authorized by: William Kollywood	10/1-	7/4
	Arleen Kellywood (Staff Regulatory		Date
		·	
DED-	ALT NO ADDROVAL DA		VED FOR A RERIOD
rek/	APPROVAL DA	-	EXCEED 2 YEARS
APPF	ROVED BY ASSOCIATE FIELD	D MANACED	TE MAY U 3 ZUIZ
		1 7 7	
	aeological Report attached A gas recovery unit m	nay or may not be use	ed on this location.
	atened and Endangered Species Report attached : This format is issued in lieu of U.S. BLM Form 3160-3	d C104	
Title 1	8 U.S.C. Section 1001, makes it a crime for any person knowingly and will fur process	nake tour ay department or	a gleinby104 the United
	any false, fictitious or fraudulent statements or presentations as to any matter with	CE & William Sources	
Bon	d Numbers 5572452	an	d "As Drilled" plat -

SEE ATTACHED

Hold C104 for NSL in BALKA DONG CONDITIONS OF APPROVAL
HONSAKCHTRA.1

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 Fc, NM 87505

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

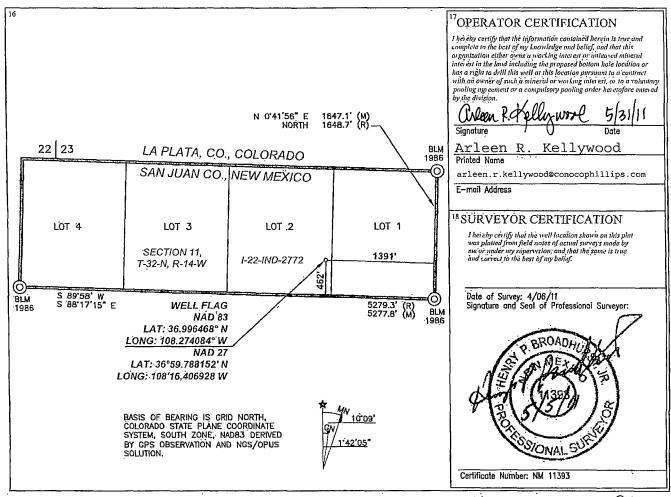
Form C-102 Revised July 16, 2010 Submit one copy to appropriate District Office

☐ AMENDED. REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35375			1	Pool Code 32/963	3 Pool Name WCBARKER DOME HONAKER TRAIL/ BARKER DOME IS				
⁴ Property Code 18725		<u> </u>		5 Property Name UTE MOUNTAIN UTE					6 Welt Number 112
⁷ OGRID №. 14538		Name :	§ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP						⁹ Elevation 6964
	***		···········		10 SURFACE	LOCATION			
UL or lot nö. O	Section 11	Township 32-N	Raņge 14-W	Lot Idri	Feet from the	North/South line SOUTH	Feet from the 1391	East/West line EAST	County: SAN JUAN
		•	11 E	Bottom H	ole Location	If Different Fro	m Surface		
UL or lot no.	Section	Township	Range	L'ot Idn	Feet from the	North/South little	Feet from the	East/West line	County
Dedicated Acres	s 13 Jo	nint or Infill	14 Consolida	tion Code	Order No.		<u> </u>	<u> </u>	1

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS ILAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



660-10 790 79A R-46A

Technical Plan

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1. Geologic Tops

Surface bedrock formation is Cliff House.

Formation		op	Fluid	
FUIIIAUUI	҈ MD (FT) ₫	TVD (FT)		
MASSIVE				
CLIFFHOUSE	340	340	No Fluids	
MENEFEE	493	493	No Fluids	
POINT LOOKOUT	868	868	No Fluids	
MANCOS	1271	1271	No Fluids	
UPPER GALLUP	2323	2323	No Fluids	
GREENHORN	2642	2642	No Fluids	
GRANEROS	2699	2699	No Fluids	
TWO WELLS	2740	2740	Gas/Water	
PAGUATE	3109	3109	Gas/Water	
UPPER CUBERO	3113	3113	Gas/Water	
LOWERCUBERO	3135	3135	Gas/Water	
ENCINAL	3172	3172	Gas/Water	
BURRO CANYON	3254	3254	Water	
MORRISON	3369	3369	Water	
BLUFF SANDSTONE	4216	4216	Water	
TODILTO	4361	4361	Water	
ENTRADA	4371	4371	Water	
CHINLE	5020	5020	No Fluids	
SHINARUMP	5548	5548	Water	
MOENKOPI	5657	5657	No Fluids	
DECHELLY	5719	5719	Water	
CUTLER	5835	5835	Water	
RICO	7422	7422	Water	
HONAKER TRAIL	7684	7684	Gas/Water	
ISMAY	8748	8748	Gas	
DESERT CREEK	8854	8854	Gas	

2. Pressure control equipment – See attached diagram

- Total Depth = 8,954 ft TVD/MD.
- Original Bottom Hole Pressure = 3,835 psi (estimated by reservoir engineer). Current estimated BHP = 1700 psi due to depletion.
- Minimum BOP Working Pressure = 3,835 psi (3,835 ft * 0.23 psi/ft) = 2,950 psi
- Well will be drilled with 3,000 psi BOPE stack.

3. Complete information on the drilling equipment, casing and cementing program

Proposed Casing And Cementing Program							
Size of Hole	Size of Casing	Wt://Foot	Setting Depth (MD)	Quantity of Cement			
(Surface) 12-1/4""	9-5/8"	36#, J-55, LT&C, New	0' - 1450'	Cement to surface with 700 cu.ft, volume includes 50% excess in open hole, to consist of 700 cu.ft (560 sks) Type III cement + 0.25 lbs/sack Cello Flake + 58.9% Fresh Water mixed at 15.20 ppg. Compressive strength is 1200 psi after 8 hours.			
(Production) 7-7/8"	5-1/2′	17#, L-80, LTC/BTC, New	0'-8954' Stage Tool +/- 7484'	Cement to 2240', 500' above the Two Wells Fm. in two stages, in the first stage , pump 312 cu.ft volume, includes 20% excess in open hole, to consist of a Scavenger : 52 cu.ft (17 sks) Premium Lite High Strength FM + 0.25 lbs/sack Cello Flake + 0.3% bwoc CD-32 + 6.25 lbs/sack LCM-1 + 1.0% bwoc FL-52 + 180.6% Fresh Water mixed at 11.00 ppg. Tail slurry : 260 cu.ft (131 sks) Premium Lite High Strength FM + 0.25 lbs/sack Cello Flake + 0.3% bwco CD-32 + 6.25 lbs/sack LCM-1 + 1.0% bwoc FL-52 + 97.5% Fresh Water mixed at 12.50 ppg. Slurries are extended to achieve stated densities and may include various additives to control seepage. TOC for tail: near 7,800' MD to ensure good cement around production zone. Second stage , (20% excess in open hole) Scavenger : 52 cu.ft (17 sks) Premium Lite High Strength FM + 0.25 lbs/sack Cello Flake + 0.3% bwoc CD-32 + 6.25 lbs/sack LCM-1 + 1.0% bwoc FL-52 + 180.6% Fresh Water mixed at 11.00 ppg. Lead : pump 1038 cu.ft (524 sks) of Premium Lite High Strength FM + 0.25 lbs/sack Cello Flake + 0.3% bwoc CD-32 + 6.25 lbs/sack Cello F			

4. Information on Mud System

Mud(Program	
Interval Mud Type Weight (ppg) Water/Fluid Add	itives

Ute Mountain Ute #112

Surface	Gel/Water	Air or 8.3 – 9.2	No Control	Gel
Production	LSND	8.4-9.5	Some control	Polymer and LCM as required.

5. Testing, Logging, Coring -

- Logs at production section: Platform Express (triple combo) from TD to surface casing.
- Mudlogging: from 100' above Greenhorn (2542 ft MD/TVD) to final TD at 8,954 ft TD. Estimate 10' samples through potential pay in the Honaker Trail, and Ismay. 30'-50' sampling through non pay intervals.
- Coring: No coring is planned.
- DST and Formation Testing: none planned.
- Cased Hole Logging: GR/CBL planned in the production casing from PBTD to TOC.

6. Expected BHP, abnormal temperatures and pressures, and hazards -

- No over-pressured intervals expected
- Require H2S contingent drilling plan. (Attached H2S Contingency Plan)
- Not expecting lost circulation. The offset wells (Ute Mountain Ute #50 and Ute Mountain Ute #51) do not have lost circulation trouble reported. Attached are the operation summaries for these wells.

UTE MOUNTAIN UTE #50

Surface Location: 1800 FNL; 1850 FWL. Drilled on March, 1998

Ground Elevation: 6,231 ft RT Elevation: 6,231 ft Rig Elevation: 14 ft

Mud Drill Surface Shoe: 385 ft Production Shoe: 8690 ft

Big A 54 drilled 12 $\frac{1}{4}$ " surface hole to 389 ft. Ran 8 $\frac{5}{8}$ " 24#/ft, K-55 casing to 385 ft. Cemented w/ 57.3 bbls of class B Lead cement, returns 8 bbls of cement to surface. No problem reported. Drilled production hole w/ 7 $\frac{7}{8}$ " insert bit from 389' to 3475'. POOH to change bit and found lost cone in hole. It fished cone with magnet and junk sub. Continued drilling (Mud logger comments only Barker Dome well that has been this gassy in cutler, no new formation tops in last 24 hrs). POOH to change bit. Drilled to 7815 ft. POOH for new bit. Continued drilling to TD at 8692 ft. Attempt to run open hole log. Hit tight spot at 2524 ft and 2533, had to work tools free. POOH and R/D loggers. TIH w/clean assy, worked through bridges, raised vis to 80. finished TIH to cond mud. Ran open hole. TIH to clean hole. Ran 5 $\frac{1}{2}$ " 17#/ft, L-80, LTC casing and set shoe at 8690 ft. No losses reported. Cemented In two stages, circulated 20 bbls in first stage and 195 bbls in second stage.

Note: There were two trips to clean hole due to logs tools hit tight spot at 2479' in first trip, 2524' second trip and stuck it at 2533' for reactive shale from 2400 ft to 2600 ft. No lost circulation trouble reported.

UTE MOUNTAIN UTE #51

Ute Mountain Ute #112

Surface Location: 1,500 FSL; 2,270 FWL. Drilled on May, 1998

Ground Elevation: 6,884 ft RT Elevation: 6,898 ft Rig Elevation: 14 ft

Mud Drill Surface Shoe: 8 5/8" at 1,436 ft Production Shoe: 5 1/2" at 9,601 ft

Big A 54 drilled 12 $\frac{1}{4}$ " surface hole to 1447 ft. Ran 8 $\frac{5}{8}$ " 24#/ft, K-55 casing to 1436 ft. Cemented w/ 229 bbls of class G lead cement, returns 100 bbls of cement to surface. No problem reported. Drilled production hole w/ 7 $\frac{7}{8}$ " insert bit from 1436' to 2301'. POOH for plugged bit. Continued drilling 4115'. POOH to change bit. Drilled to 6038 ft. POOH for new bit. Continued drilling to 7904 ft. POOH twice more for new bit and continued drilling to TD at 9602 ft. Attempt to run open hole log and stuck at 9447'. Recover all logging tool. TIH w/clean assy. Ran 5 $\frac{1}{2}$ " 17#/ft, L-80, LTC casing and set shoe at 9601 ft. No losses reported. Cemented in two stages. Circulated 60 bbls in first stage and 93 bbls in second stage.

7. Other information -

This well will be drilled vertical to TD. The Ismay will be perforated and stimulated with acid/frac. The Honaker Trail will be perforated and stimulated with a foam frac. Anticipate the Ismay and Honaker Trail to be comingled with a tubing completion.

Burlington Resources Oil & Gas Company, LP

Tribal Lease: I-22-IND-2772 Well: Ute Mountain Ute #112 Location: 462' FNL & 1391' FEL

Sec. 11, T. 32 N., R. 14 W. La Plata County, Colorado

Conditions of Approval - Drilling Plan:

- 1. Notify this office at least 3 days prior to:
 - a. spudding the well
 - b. running casing strings and cementing
 - c. BOP tests
 - d. Drill Stem Testing

For the above procedures, Operators must talk to BLM personnel directly. Do not leave messages on answering machines.

All Drilling activities MUST conform to Onshore Order #2.

- 2. All BOP tests will be performed with a test plug in place. The BOP will be tested to full stack working pressure and the annular preventer to 50% of the maximum stack working pressure. All 2M or greater systems require **adjustable** chokes.
 - 2a. One of the valves in the kill line must be a check valve.
- 3. No additional zones will be commingled without UMU Tribal and BLM approval.
- 4. If a BLM Inspector is not present during the initial BOP test, please provide chart record.
- 5. Submit copies of all logs to this office both paper and in Log ASCII Standard (LAS) format.
- 6. If any operations are to start over the weekend, notify this office by <u>noon</u> Friday. If any problems arise after hours or on weekends, call BLM personnel using the home phone numbers listed on the following 'INFORMATIONAL NOTICE APD's'. Do not leave messages on answering machines.

Continued on Page 2.

- 7. Increase the volume of cement on the production casing cementing so that cement overlaps into the Surface Casing a minimum of 300'. This overlap must be verified.
- 8. A CBL may be required if cement is not circulated to the surface during the cementing of the Surface Casing. The BLM must witness the topping-off of the Surface Casing cement job if topping off is required.
- 9. The tops of all major identifiable geologic units (formations) from TD to Surface will be logged and recorded.
- 10. Stabilized bottomhole pressure measurements and flowrates <u>must</u> be collected and submitted to the BLM. This data may be confidential and the operator may so specify upon submittal to the BLM.
- 11. Once the final version of the H2S Contingency Plan is signed, send an original signed copy to this office under a Sundry Notice, Subsequent Report form.
- 12. Please provide the following information if possible. All tests and operations on any well on subject lands shall be conducted at Operator's sole discretion.

All Wire Line Logs - Fields & Final Print (Electrical, Radioactive, Sonic, Velocity, Cement Bond, Temperature, etc with digitized and log analysis).

Drill Stem Tests - Field and Final Reports.

Core Analysis - Field and Final Reports.

Mud Log - Final Report.

Structure and Isopach Maps.

Location (Surveyors) Plat.

Application to Drill (Drilling Permit).

Daily Drilling Reports, Daily Work Over Reports and Final Drilling Report Summary.

Directional Survey.

Continued on page 3.

Geological Summary Report.

Completion Report.

Production Tests (All Production Tests during Completion, AOF, Potential, GOR, etc).

30 Day Well Production Test Record

Bottom Hole Pressure Surveys including build up tests.

Shut in Surface Pressure Surveys.

Gas, Oil and Water Analyses.

State and/or BLM Completion Reports.

State and/or BLM and/or MMS Monthly Production and OGOR Reports.

Additional Governmental Permits and Reports.

Drilling Contracts.

Operating Agreements.

Oil and Gas Sales Contracts.

Plug and Abandon Reports.

Monthly, Gas and/or Plant Products Purchasing Statements.

Sundry Notices to the BLM.

Well Bore Profiles.

Division Orders/Title Opinions.

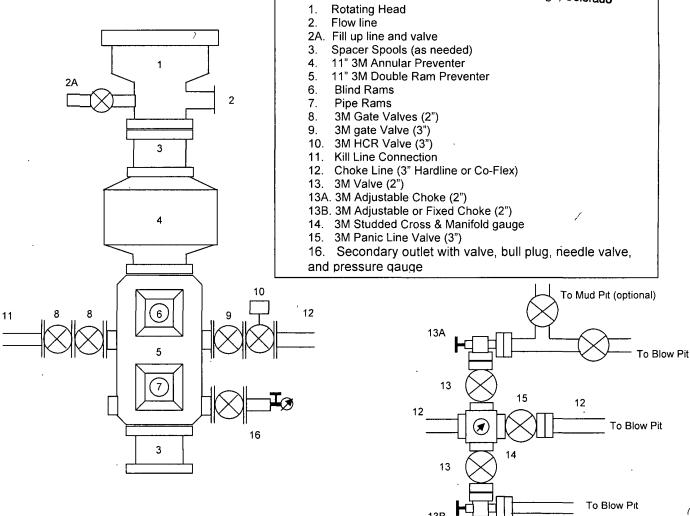
AFEs.

Final Drill and Completion Costs.

Other well file information as requested by the Tribal Department of Energy.



Buresu of Land Management



Pressure Tests:

Pressure test annular preventer to 250 psi for 3 minutes and 2100 psi (70%) for 10 minutes. Pressure test ram preventer (blind and pipe rams) to 250 psi for 3 minutes and 3000 psi for 10 minutes. Pressure test choke manifold to 250 psi for 3 minutes and 3000 psi for 10 minutes

Pressure test surface casing to 1500 psi for 30 minutes.