UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

	APPLICATION	FOR PERMIT TO DRILL, DE	EPEN, C	R PLUG BACK	va 100 0 03
a.	Type of Work DRILL	1 1 1 25 26 27 20 30 A	5	. Lease Number NMNM-016: Unit Reporting N	- 1 1 cm
b.	Type of Well GAS	E RECEIVED ON	773	. If Indian, All. or 1	Tribe '
2.	Operator BURLINGTON RESCURCES Oil & Gas	s Company	7 7	. Unit Agreement I	Name
	Address & Phone No. of Opera PO Box 4289, Farming			. Farm or Lease Na Thompson . Well Number	ame
	(505) 326-9700		•	#1048	
ļ.	Location of Well Unit P (SESE), 785' FS	L, 840' FEL	В	O. Field, Pool, Wild asin Fruitland ztec Pictured	d Coal/
	Latitude 36° 51.0389'N Longitude 108° 04.7549		່້ຣ	1. Sec., Twn, Rge, ec. 34, T31N, Pl # 30-045-32	R12W
4.	Distance in Miles from Nearest 7 miles to Aztec, NM	Town	1	2. County an Juan	13. State
5.	Distance from Proposed Location 785'	on to Nearest Property or Lease	e Line		
6.	Acres in Lease			7. Acres Assigned 20 E2 FC/160	
8.	Distance from Proposed Location 52' - Thompson #11M	on to Nearest Well, Drig, Comp	ol, or App	olied for on this Lea	se
9.	Proposed Depth 2460'		2	0. Rotary or Cable Rotary	Tools
1.	Elevations (DF, FT, GR, Etc.) 5900'GL		2	2. Approx. Date V	Vork will Start
3.	Proposed Casing and Cementin See Operations Plan				, <u>, , , , , , , , , , , , , , , , , , </u>
4.	·	Compliance Assistant	II		<u> </u>
ERMI	T NO.	APPROVA	L DATE		
.PPRC	OVED BY AME	TITLE AT	M	DATE	2/2/0

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.



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

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised August 15, 2000

DISTRICT II 611 South First, Artesia, N.M. 68210

DISTRICT III 1000 Rio Brasos Rd., Astec, N.M. 87410 OIL CONSERVATION DIVISION

2040 South Pachecon JAN 31 Santa Fe. NM 87505 Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

☐ AMENDED REPORT

DISTRICT IV 2040 South Pacheco, Santa Pe, NM 87506

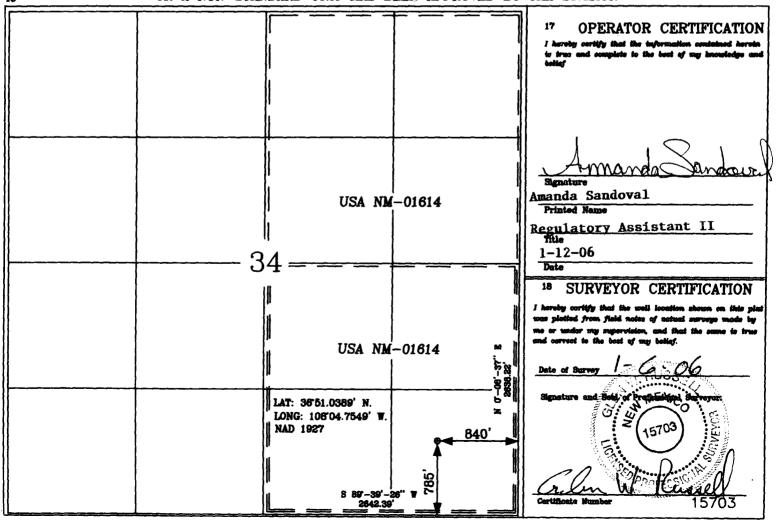
WELL LOCATION AND ACREAGE DEDICATION PLAT

	J 1122 25 011101, 1175 11014211020 2 22 20 11101							
API Number 30-045- 2	3568 71629/71280	Basin Fruitland Coal/ Aztec Pictured Cliffs						
*Property Code	*Property Code *Property Name							
18628 /	TH	THOMPSON						
OGRID No.	•(Operator Name	* Elevation					
14538	BURLINGTON RESOURCE	ES OIL AND GAS COMPANY LP	5900' ✓					

¹⁰ Surface Location

OF OL TOC DO.	Secrion	LOADED	menge	TOUR TOOM	Lear nom the	MOLCH\SOUTH INTO	Leer Itohi cite	Persc\ sear une	County	IL
P	34	31-N	12-W		785'	SOUTH	840'	EAST	SAN JUAN	J-
	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]
³⁸ Dedicated Agre 320 E2 FC		L	¹⁵ Joint or	infill	¹⁴ Consolidation C	code	** Order No.	<u> </u>	1	1
160 SE4 P	'C		į		l					ı

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



Submit 3 Copies To Appropriate District Office	State of New M			Form C-103
<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240	Energy, Minerals and Na	tural Resources	WELL API NO.	May 27, 2004
<u>District II</u> 1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATIO		5. Indicate Type of Lea	
District III	1220 South St. Fra		STATE 6. State Oil & Gas Lea	FEE
1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u>	Santa Fe, NM 8	87505	6. State Off & Gas Lea	se no.
1220 S. St. Francis Dr., Santa Fe, NM 875				NM-01614
(DO NOT USE THIS FORM FOR PROPOSAL			7. Lease Name or Unit	_
DIFFERENT RESERVOIR. USE "APPLICATI PROPOSALS.)	ON FOR PERMIT" (FORM C-101) FOR SU	СН	i.	hompson
1. Type of Well: Oil Well Gas Well X	Other		8. Well Number	#104S
2. Name of Operator	OURCES OIL & GAS COMPANY	T D	9. OGRID Number	14538
3. Address of Operator		<u></u>	10. Pool name or Wildo	cat
3401 E. 30TH ST	REET, FARMINGTON, NM 87402		Basin Fruitland C	oal/ Aztec Pictured Cliffs
Unit Letter P :	785 feet from the South Township 31N		840 feet from th	
Section 34	Township 31N Blevation (Show whether DR, RKB,	Rng 12W RT, GR, etc.)	NMPM (County San Juan
Pit or Below-grade Tank Application	or Closure 5900	<u>'</u>		
Pit type New Drill Depth to Ground		t fresh water well	>1000' Distance from	nearest surface water
Pit Liner Thickness: 12	mil Below-Grade Tank:	Volume	bbls; Construction I	Material
NOTICE OF I PERFORM REMEDIAL WORK TEMPORARILY ABANDON	Appropriate Box to Indicate NTENTION TO: PLUG AND ABANDON CHANGE PLANS	REMEDIA	SUBSEQUENT R L WORK CE DRILLING OPNS.	
PILL OF ALTER CASING I		I I CASING/C	YEMENIT IOR	i i
PULL OR ALTER CASING	MULTIPLE COMPL [_	CEMENT JOB	
OTHER: New	v Drill	OTHER:		ding assimpted data
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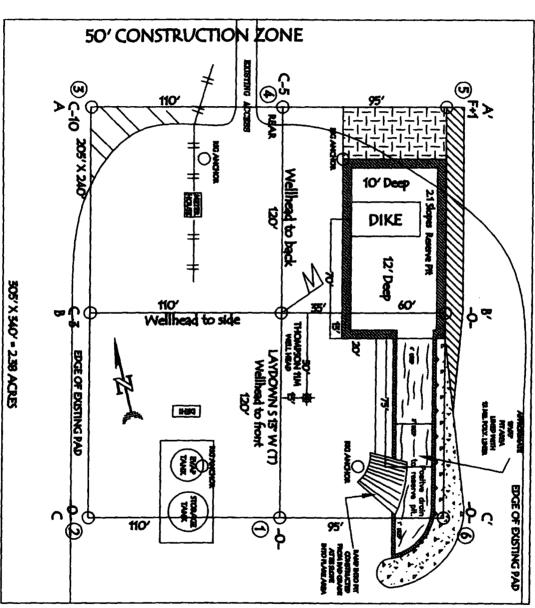
LATTUBE

36. 51.0389' N

LONGITUDE:

108" 04.7549" W NADZ7

GROUND ELEVATION: 5900 SAN JUAN COUNTY, NM **NOVEMBER 28, 2005** MPANY LP



NOTE: VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.

CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED

PIPLINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

BURLINGTON RESOURCES OIL & GAS COMPANY LP THOMPSON 104S, 785' FSL & 840' FEL SECTION 34, T-31- N, R-12-W, NMPM, SAN JUAN COUNTY, NM GROUND ELEVATION: 5900', DATE: NOVEMBER 28, 2005

5920 5910 5900
5900
ELEV. B'-B
5920
5900
5890
ELEV. C'-C
5920
5910
5900
5890

NOTE: VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. PIPLINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION. CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED

OPERATIONS PLAN

Well Name:

Thompson #1045

Location:

Unit P (SESE) 785' FSL & 840' FEL, Section 34, T31N, R12W

San Juan County, New Mexico

Latitude 36° 51.0389'N; Longitude 108° 04.7549'W

Formation:

Basin Fruitland Coal/ Aztec Pictured Cliffs

Elevation:

5900' GR

Formation:	Тор	Bottom	Contents
Surface	San Jose		
Ojo Alamo	516'		
Kirtland	638'	2010'	gas
T/Fruitland	2010'		gas
B/Fruitland	2257'		gas
Pictured Cliffs	2260'		
Total Depth	2460'		

Note: The Total Depth for this well is into the Pictured Cliffs interval, but currently only have plans to complete the Fruitland Coal interval. We could in the near future perforate/stimulate the Pictured Cliffs interval, but only would once Regulatory approval was asked for and received.

Logging Program: None

Mud Program:

<u>Interval</u>	Type	<u>Weight</u>	<u>Vis.</u> Fluid Loss			
0- 120'	Spud/Air/Air Mist	8.4-8.9	40-50 no control			
120-2460'	Non-dispersed	8.4-9.5	30-60 no control			
Casing Program:						
Hole Size	<u>Depth Interval</u>	<u>Csq.Size</u>	<u>Wt.</u>	<u>Grade</u>		
8 3 "	0 - 120'	7"	20.0#	J-55		
6 4"	0 - 2460'	4 1/2"	10.5#	J/K-55		
Tubing Program:						
	0 - 2460'	2 3/8"	4.7#	J-55		

Float Equipment: 7" surface casing - guide shoe. Centralizers will be run in accordance with Onshore Order #2.

4 1/2" production casing - float shoe and float collar on bottom. Centralizers run every third joint above shoe to the base of the Ojo Alamo @ 638'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 638'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

Wellhead Equipment: $7" \times 4 \frac{1}{2}" \times 2 \frac{3}{8}" \times 11" 2000 \text{ psi xmas tree assembly.}$

Page 2 Thompson #1045

Cementing:

7" surface casing Pre-Set Drilled - Cement with Type I, II cement with 20% flyash mixed at 14.5 ppg, 1.61 cu ft per sack yield. (Bring cement to surface). Wait on cement for 24 hours for pre-set holes before pressure testing or drilling out from under surface.

7" surface casing - Cement with 42 sx Type III cement with 0.25 pps Celloflake, 3% CaCl. (54cu ft of slurry @ 1.28 yield). 200% excess, bring cement to surface. Wait on cement for 8 hrs for conventionally set holes before pressure testing or drilling out from under surface. WOC until cement establishes 250 psi compressive strength prior to NU of BOPE.

4 1/2" production casing - Cement with 119sx (254cu ft of slurry @ 2.13 yield) Premium Lite with 3% calcium chloride, 5 pps LCM-1, and 1/4#/sack celloflake, 0.4% FL-52, & 0.4% SMS. Tail with 90sx (124cu ft of slurry @ 1.38 yield) Type III cmt with 1% calcium chloride, 1/4#/sack Celloflake and 0.2% FL-52. Total of 378 cf - 50% excess to circulate to surface.

BOP and tests:

Surface to TD - 11" 2000 psi (minimum double gate BOP stack (Reference Figure #1 and #2). Prior to drilling out surface casing, test peris to 600 psi/30 min.

Completion - 6" 2000 psi (minimum) double gate BOP stack (Reference Figure #2). Prior to completion operations, test rams and casing to 1500 psi/30 min.

From surface to TD - choke manifold (Reference Figure #3).

Pipe rams will be actuated at least once each day and blind rams actuated once each trip to test proper functioning. An upper kelly cock valve with handle and drill string safety valves to fit each drill string will be maintained and available on the rig floor.

Additional information:

- * The Fruitland Coal formation will be completed.
- * Anticipated pore pressure for the Fruitland is between 600 700 psi.
- * This gas is dedicated.
- * The east half of section 34 is dedicated to Fruitland Coal and southeast quarter is dedicated to Pictured Cliffs.
- * New casing will be utilized.
- * Pipe movement (either rotation or reciprocation) will be done if hole conditions permit.

~· ~	t /	19/	06
Dritting Engineer	Date	ı	

Completion/Workover Rig 8OP Configuration 2,000 pel System

Burlington Resources

2000 psi System Oriting Rig

ition from Burtace Castro

Point to Total Depth. 2,000pal working pressure

e same. A stripping head to be tru

and on the top of

re double gate BOP to be equipped with blind and ions. 7-1/16" bors, 2000 pei minimum working mum BOP mag

Matten for all Con

Figure #3

4-20-01

Figure #1

10-01