

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

	APPLICATION FOR PERMIT TO DRIL	LL, DEEPEN, OR PLUG BACK
1a.	Type of Work DRILL RECEIVED 070 FARMINGTO	5. Lease Number NMSF-045646-A 0 6 5 5
1b.	Type of Well GAS	6. If Indian, All. or Tribe
2.	Operator BURLINGTON RESCURCES 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 ON ON Mansfield Com 9. Well Number 2608
4.	Location of Well Unit M (SWSW), 755' FSL & 860' FWL,	10. Field, Pool, Wildcat Basin Fruitland Coal
Z Z	Latitude 36° 46.6573'N Longitude 107° 47.4708'W	11. Sec., Twn, Rge, Mer. (NMPM) M Sec. 28, T30N, R09W API # 30-045-33500
7. 0 44. 1 15.	Distance in Miles from Nearest Town	12. County 13. State San Juan NM
15.	Distance from Proposed Location to Nearest Property of	or Lease Line
16 .	Acres in Lease	17. Acres Assigned to Well FC - 320 acres W/2
18.	Distance from Proposed Location to Nearest Well, Drig Twinned w/Giomi Gas Com C #1	, Compl, or Applied for on this Lease
19.	Proposed Depth 2696'	20. Rotary or Cable Tools Rotary
21.	Elevations (DF, FT, GR, Etc.) 5831' GL	22. Approx. Date Work will Start
23.	Proposed Casing and Cementing Program See Operations Plan attached	-
24.	Authorized by: Authorized by: Sr. Regulatory Specialist	Date 12/29/05
PERMIT	XIVII .	PPROVAL DATE
APPRO	VED BY HAMILE CONTINUE TITLE	47M DATE //11/86

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 fraugulent statements or presentations as to any matter within its jurisdiction.

Not an HPA FC Well ERATIONS AUTHORIZED ARE SUBJECT TO SOMPLIANCE WITH ATTACHED TO A WHAT REQUIREMENTS

NMOCE

This action is subject to technical and procedural review oursuant to 43 CFR 3165.3 and appeal pursuant to 40 CFR 3165.4

DISTRICT I 1625 N. French Dr., Hobbs, N.M. 68240

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised August 15, 2000

DISTRICT II 811 South First, Artesia, N.M. 88210

1000 Rio Brazos Rd., Aztec, N.M. 87410

OIL CONSERVATION DIVISION 2040 South Pacheco 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 Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT										
¹ API Number										
Property Co		6 Property Name 6 Well Number								
7285					MANSFIELD					260S
OGRID No					*Operator					Elevation
14538			BURLI	ngton re	SOURCES OIL	AND GAS COMPA	NY LP			5831'
		,			10 Surface	Location				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	st line	County
<u> </u>	28	30-N	9-W		755'	SOUTH	860'	WE:	ST	SAN JUAN
			11 Botte	om Hole		If Different Fro				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	est line	County
Dedicated Acre	s	<u> </u>	18 Joint or	Infill	¹⁴ Consolidation	Code	¹⁶ Order No.	<u> </u>		
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Office District I	State of New Mexico	Form C-103
<u>District I</u>	Energy, Minerals and Natural Resources	May 27, 2004
1625 N. French Dr., Hobbs, NM 88240 District II		WELL API NO. 30-045- 33500
1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION DIVISION	5. Indicate Type of Lease
District III	1220 South St. Francis Dr.	STATE FEE
1000 Rio Brazos Rd., Aztec, NM 87410 District IV	Santa Fe, NM 87505	6. State Oil & Gas Lease No.
1220 S. St. Francis Dr., Santa Fe, NM 87505		Federal Lease - SF-045646-A
	S AND REPORTS ON WELLS O DRILL OR TO DEEPEN OR PLUG BACK TO A	7. Lease Name or Unit Agreement Name
DIFFERENT RESERVOIR. USE "APPLICATION		Mansfield Com
PROPOSALS.) 1. Type of Well:		8. Well Number
Oil Well Gas Well X	Other	2608
2. Name of Operator		9. OGRID Number
3. Address of Operator	JRCES OIL & GAS COMPANY LP	14538 10. Pool name or Wildcat
3401 E. 30TH STRE	ET, FARMINGTON, NM 87402	Basin Fruitland Coal
4. Well Location Unit Letter M: 75	55' feet from the South line and	860' feet from the West line
Section 28	Township 30N Rng 9W	NMPM County San Juan
11. E	levation (Show whether DR, RKB, RT, GR, etc.) 5831' GL	
Pit or Below-grade Tank Application	or Closure	
Pit type New Drill Depth to Groundwa	ter Distance from nearest fresh water well	>1000' Distance from nearest surface water
Pit Liner Thickness: n/a	mil Below-Grade Tank: Volume	bbls; Construction Material
12. Check A	ppropriate Box to Indicate Nature of Not	ice, Report or Other Data
NOTICE OF IN	TENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON REMEDIAL CHANGE PLANS COMMEN	L WORK ALTERING CASING CE DRILLING OPNS. P AND A
TEMPORARILY ABANDON PULL OR ALTER CASING		EMENT JOB
OTHER: New Dr	ill Pit X OTHER:	
	operations. (Clearly state all pertinent details, and g	rive pertinent dates, including estimated date
of starting any proposed work).	SEE RULE 1103. For Multiple Completions: Attac	
or recompletion.		
New Drill, Unlined:		
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Burlington Resources proposes to con	struct a new drilling pit and an associated vent/flare present the second standard vent/flare nit will be an unlined to	
Burlington Resources proposes to con Ecosphere's risk ranking criteria, the	new drilling pit and vent/flare pit will be an unlined p	
Burlington Resources proposes to con Ecosphere's risk ranking criteria, the Workover Pit Construction / Operatio designed to manage fluids, and that pe	new drilling pit and vent/flare pit will be an unlined p in Procedures dated November 11, 2004 on file at the portion will be unlined, as per the risk ranking criteria.	bit as detailed in Burlington's Revised Drilling / NMOCD office. A portion of the vent/flare pit will be Burlington Resources anticipates closing these pits
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PIPLINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIVED

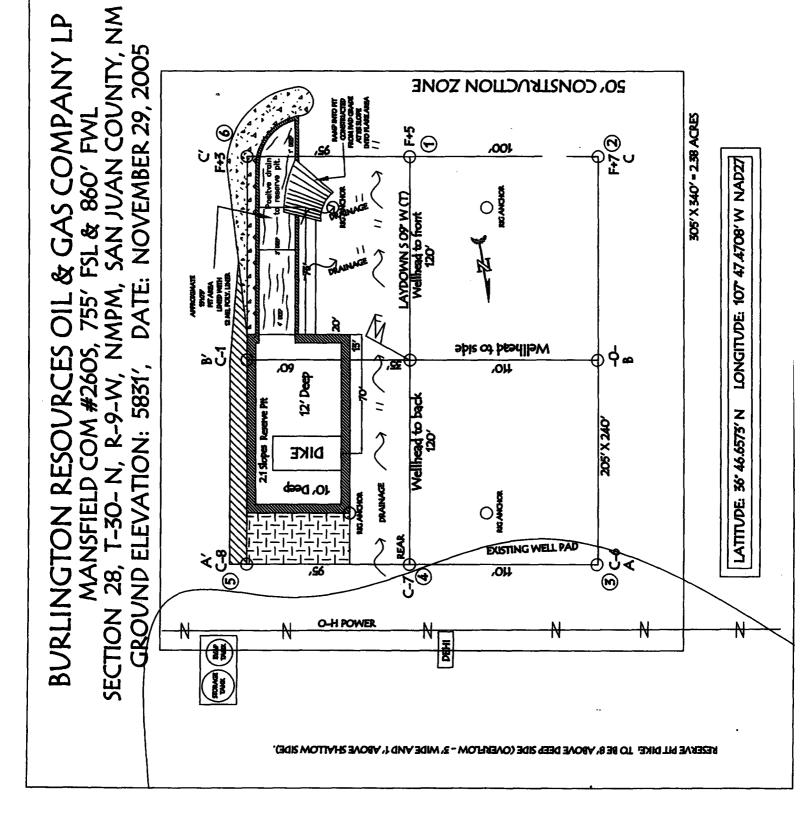
CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED

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HOTE: VECTOR SHOULD CALL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIVED

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BURLINGTON RESOURCES OIL & GAS COMPANY LP MANSFIELD COM #2605, 755' FSL & 860' FWL SECTION 28, T-30- N, R-9-W, NMPM, SAN JUAN COUNTY, NM GROUND ELEVATION: 5831', DATE: NOVEMBER 29, 2005

C-C-2-1	70
5850	
5840	
5830	
5820	
ELEV. B'-B	2
5850	
5840	
5830	1
5820	
ELEV. C'-C	R
5850	
5840	
5830	
5820	

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

OPERATIONS PLAN

Well Name:

Mansfield Com 2605

Location:

Unit M (SWSW) 755' FSL & 860' FWL, Section 28, T30N, R9W

San Juan County, New Mexico

Latitude 36° 46.6573'N Longitude 107° 47.4708' W

Formation:

Basin Fruitland Coal

Elevation:

5831' GR

Formation:	Тор	Bottom	Contents
Ojo Alamo	1310′	1400'	aquifer
Kirtland	1400'	2337'	gas
T/Fruitland	2337'		gas
B/Fruitland Coal	2488'		gas
Pictured Cliffs	2496'		_
Total Depth	2696'		

Logging Program: None

Mud Program:

<u>Interval</u>	Type	<u>Weight</u>	Vis. Fluid Loss
0- 120'	Spud/Air/Air Mist	8.4-8.9	40-50 no control
120-2696'	Non-dispersed	8.4-9.5	30-60 no control

Casing Program:

Hole Size	Depth Interval	<u>Csg.Size</u>	<u>W†.</u>	<u>Grade</u>
8 3 "	0 - 120'	7"	20.0#	J-55
6 ¼ "	0 - 2696'	4 1/2"	10.5#	J/K-55

Tubing Program:

0 - 2696'	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 @ 1400'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 1400'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

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

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 50 sx Type III cement with 0.25 pps Celloflake, 3% CaCl. (64 cu ft of slurry @ 1.61 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 136 sx (290 cu 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 90 sacks (124 cu ft of slurry @ 1.38 yield) Type III cmt with 1% calcium chloride, 1/4#/sack Celloflake and 0.2% FL-52. Total of 414 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 pans 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 Coal is 600 700 psi.
- * This gas is dedicated.
- * The west half of the section is dedicated to this well.
- * New casing will be utilized.
- * Pipe movement (either rotation or reciprocation) will be done if hole conditions permit.

Drilling Engineer

Nate

BURLINGTON RESOURCES

BURLINGTON RESOURCES

Completion/Workover Rig BOP Configuration 2,000 pai System

Burlington Resources

Drilling Rig

2000 psi System

LIVE FTEROO

Figure #1

4-20-01

Point to Total Daptin. 2,000(psi working pressure

Figure #3

nimum SOP installation for all Con **₹⊗**§

ne BOP. All BOP equipment is 2000 pul working re name. A stripping head to be inst

uding 600 pel stripping head.

ure double guts BOP to be equipped with blind and tions. 7-1/16" bors, 2000 pel minimum working

field on the top of

4-20-01