UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

a. b.	Type of Woll	NMSF-03877 RECEIVED Unit Reporting Number
	Type of Well	
	Time of Wall	OTO FARMINGTON NIK
	Type of Well	6. If Indian, All. or Tribe
)	GAS	
	Operator	7. Unit Agreement Name
	BURLINGTON	S 10 11 16 18 1972
	RESOURCES Oil & Gas Compa	any 🔑 🔭
	Address & Phone No. of Operator	8. Farm or Lease Name
٠.	PO Box 4289, Farmington, N	
	10 box 4205, Turmingcom, I	9. Well Number
	(505) 326-9700	#5s
l.	Location of Well	10. Field, Pool, Wildcat
	845' FNL, 1775' FWL	Basin Fruitland Coa 11. Sec., Twn, Rge, Mer. (NMPM)
	Latitude 36° 45.5450'N, Long	
	Lacroade 30 13.5150 A, Long	API# 30-045- 32870
4.	Distance in Miles from Nearest Town	12. County / 13. State
	4.8 miles to intersection Hw	
		
15.	Distance from Proposed Location to No. 845'	earest Property or Lease Line
16.	Acres in Lease	17. Acres Assigned to Well
		W/2 307.76
 18.	Distance from Proposed Location to N	earest Well, Drig, Compl, or Applied for on this Lease
U.	1129'	sarest well, brig, compi, or Applied for on this Lease
19.	Proposed Depth	20. Rotary or Cable Tools
	2243′	Rotary
 !1.	Elevations (DF, FT, GR, Etc.)	22. Approx. Date Work will Start
	5831' GR	
23.	Proposed Casing and Cementing Prog	
13.	See Operations Plan attach	
	see operations train accuse	
	Authorized by:	1-13-05
24.		iance Specialist Date
PERMIT	Г NO	APPROVAL DATE
APPRO	VED BY Jun lovalo	TITLE A ling traid Managrate 3/11
	()	Mussl

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.

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

DRILLING OPERATIONS AUTHORIZED ARE

MMOCD

STRICT I 525 N. French Dr., Hobbs, N.M. 88240

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised June 10, 2003

DISTRICT II 1301 W. Grand Ave., Artesia, N.M. 88210

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

API Number

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe. NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT IV 1220 South St. Francis Dr., Santa Fe, NM 87505

2005 JAN 31 PM 3 31

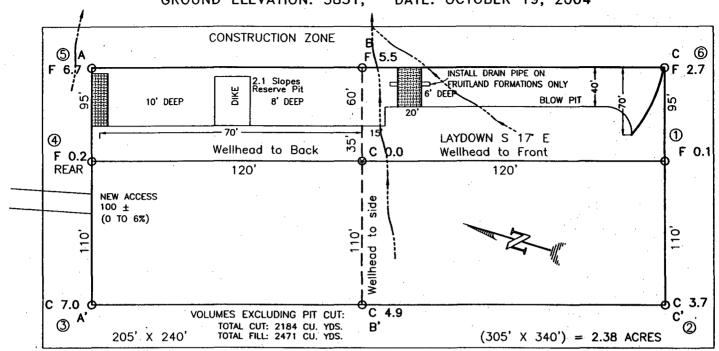
☐ AMENDED REPORT

30-045- 32870 71629070 FARMING TO Basin Fruitland Coal									
⁴ Property Code ⁵ Property Name					4 We	Well Number			
6962		DUFF						5S	
OGRID No.					. *:	* Elevation			
14538		BUR	LINGTON I	resources oil	& GAS COMPA	NY LP		5831'	
	¹⁰ Surface Location								
UL or lot no. Section	on Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County*	
C 5	29-N	11-W	3.	845	NORTH	1775	WEST	SAN JUAN	
11 Bottom Hole Location If Different From Surface									
UL or lot no. Secti	on Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/West line	County	
				100			***		
Pa Dedicated Acres 13 Joint or Infill 14 Consolidation Code 15 Order No.									
11/2000	, , , , , , , ,								
W/307.70	2			l					
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									

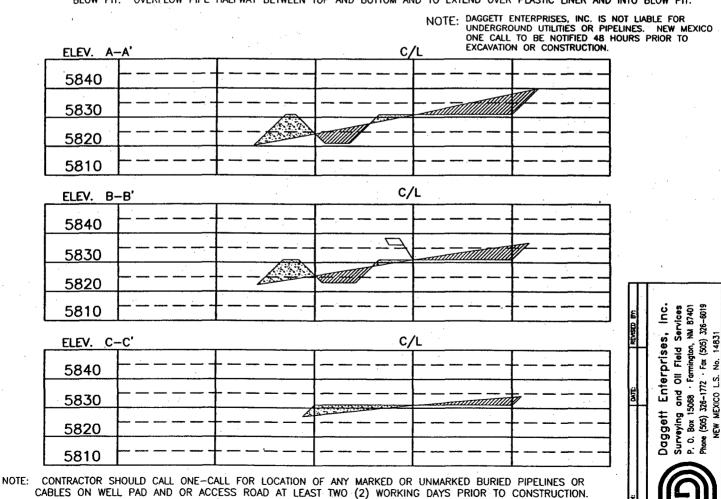
S 89-11-35 E - 2651.57' OPERATOR CERTIFICATION FOUND 3 1/4" B.L.M. BC CORNER FOUND 3 1/ B.L.M. BC 1969 LOT 3 LOT 1 LOT 2 SF-03877 NM LOT 4 LAT. 36'45.5450' N. (NAD 27) 1775 108'01.0352 W. (NAD LONG. Tammy Jones Printed Name Regulatory Specialist NM NM-98140 Title Date FOUND 5/8 REBAR IN MOUND OF STONE SURVEYOR CERTIFICATION OCTO NM SF-03877 FIFIELD, E.F., et al Certificate Number

Submit 3 Copies To Appropriate District	t Stat	e of New Me	kico			F	form C-103
Office District I	Energy, Mi	nerals and Natura	l Resources				May 27, 2004
1625 N. French Dr., Hobbs, NM 88240 District II			•	WELL API	NO. 30-(M5.	l
1301 W. Grand Ave., Artesia, NM 8821	OIL CON	SERVATION I	DIVISION	5. Indicate	Type of Lease		
District III	1220	South St. Franc	is Dr.	STA	ATE	FEE	
1000 Rio Brazos Rd., Aztec, NM 87410) Sa	nta Fe, NM 875	05	6. State Oil	& Gas Lease No).	
District IV 1220 S. St. Francis Dr., Santa Fe, NM 8	37505				NMSF-0	3877	j
SUNDRY NOT	TICES AND REPORTS			7. Lease Nar	ne or Unit Agree		
(DO NOT USE THIS FORM FOR PROPOSA DIFFERENT RESERVOIR. USE "APPLICA			TO A)	Duf	r	Ì
PROPOSALS.)	TON TOK! EKWIT (TOK	M C-101/1 OK 30C11			Dui	1	İ
1. Type of Well:				8. Well Number			
Oil Well Gas Well	X Other			58			
2. Name of Operator BURLINGTON RE	SOURCES OIL & GAS	S COMPANY LP		9. OGRID Number 14538			
3. Address of Operator				10. Pool nan	ne or Wildcat		
3401 E, 30TH S 4. Well Location	TREET, FARMINGTO	ON, NM 87402		<u> </u>	Basin Fruitl	and Coal	
Unit Letter C :	845 feet from	the North	line and	1775 _ f	feet from the	West 1	ine
Section 5	Townshi		ange 11W	NMPM	Coun	ty San J	uan, NM
	1. Elevation (Show who	ether DR, RKB, RT,	GR, etc.)				
Pit or Below-grade Tank Application	X or Closure				- store to a secure our policies.	e za reser, <u>e ve</u> r sendedd eiste ge	entrologic georgic relation (see no egging
Pit type New Drill Depth to Groun	ndwater > 100' Dist	ance from nearest fres	h water well	>1000' D	istance from neare:	st surface water	< 1000'
Pit Liner Thickness: 12	mil Below-	Grade Tank: V	olume	bbls; C	onstruction Materi	al	
12. Chec	k Appropriate Box	to Indicate Na	ature of Not	ice, Report	or Other Da	ta	
NOTICE OF	INTENTION TO:			SUBSEQ	UENT REPO	ORT OF:	
PERFORM REMEDIAL WORK	PLUG AND ABAN		REMEDIAL			ALTERING (CASING
TEMPORARILY ABANDON PULL OR ALTER CASING	CHANGE PLANS MULTIPLE COMP		i .	CE DRILLING EMENT JOB	OPNS.	P AND A	
L CHALLEN CASING	_ MOETH LE COMP		CASING/C	CIVILIAL 200	L		
	New Drill	X	OTHER:				
 Describe proposed or comp of starting any proposed we 							
or recompletion.	nk). SEE ROLE 1105.	Tor Munipie Com	pictions. Attac	ii welloofe die	igrain or propose	a completion	L
Burlington Resources proposes to							
Ecosphere's risk ranking criteria, Operation Procedures dated Nove							
that portion will be lined as per th							
Pit Closure Procedure dated Augu	-	_	•				
I hereby certify that the information	above is true and comp	lete to the best of n	ıy knowledge ar	nd belief. I fur	rther certify that an	v pit or below-	<u> </u>
grade tank has been/will be constructed or					l) alternative OCD		□-
SIGNATURE	i Clark	TITLE _	Sr. Re	egulatory Spec	ialist	DATE	2/16/2004
Type or print name For State Use Only	Joni Clark	E-mail address:	<u>iclark@b</u>	or-inc.com	Telephone No.		6-9700
APPPROVED BY	-Marsh-	TITLE	UTY ONL & GA	is inspector	R, DIST. 🙉	MAR	1 4 2005
Conditions of Approval (if any):	1100						-

BURLINGTON RESOURCES OIL & GAS COMPANY LP DUFF NO. 5S, 845 FNL 1775 FWL SECTION 5, T-29-N, R-11-W, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO GROUND ELEVATION: 5831. DATE: OCTOBER 19, 2004



RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW - 3' WIDE AND 1' ABOVE SHALLOW SIDE). BLOW PIT: OVERFLOW PIPE HALFWAY BETWEEN TOP AND BOTTOM AND TO EXTEND OVER PLASTIC LINER AND INTO BLOW PIT.



OPERATIONS PLAN

Well Name: DUFF 5S

Location: 845' FNL & 1775' FWL, Section 05-T29N-R11W

San Juan County, New Mexico

Formation: Basin Fruitland Coal

Elevation: 5831' GL

Formation Tops:	<u>Top</u>	<u>Bottom</u>	<u>Contents</u>
Surface	San Jose	705 '	
Ojo Alamo	705'	800'	aquifer
Kirtland	800'	1788'	gas
Fruitland Coal	1788'	2033'	gas
B/Fruitland Coal	2033'	2043'	gas
Pictured Cliffs	2043'		gas
Total Depth:	2243 '		gas

Logging Program:

Mudlog: none Coring: none

Cased Hole: GR/CBL from TD to min operations depth

Mud Program:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	<u>Fluid Loss</u>
0 - 120'	Spud MUD/Air/Air Mist	8.4 - 9.0	40 - 50	no control
0 - 2243'	Polymer Mud/Polymer-Starch	8.4 - 9.0	40 - 50	no control

Casing Program (as listed, the equivalent, or better):

<u> Hole Size</u>	<u>Depth Interval</u>	<u>Csg.Size</u>	<u>Wt.</u>	<u>Grade</u>
8 3/4"	0' - 120'	7 "	32.3#	H-40
6 1/4"	0' - 2243'	4 1/2"	10.5#	J-55

Tubing Program:

<u>Depth Interval</u>	<u>Csg.Size</u>	<u>Wt.</u>	<u>Grade</u>
0' - 2243'	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 -guide shoe and float collar. Standard centralizers run every third joint above shoe. Two tubolizing type centralizers - one below and one into the base of the Ojo Alamo 800'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

Wellhead Equipment:

7" x 4 1/2"" x 2 3/8" 2000 psi xmas tree assembly.

Cementing:

7" surface casing - Pre-Set Drilled -

Cement with 34 sx Type I, II cement with 20% flyash mixed at 14.5 ppg, 1.61 cu ft per sack yield. (54 cu ft of slurry, bring cement to surface) Wait on cement for 24 hours for pre-set holes before pressure testing or drilling out from under surface.

Conventionally Drilled -

Cement with 42 sacks Type III cement with 0.25 pps Celloflake, 3% CaCl. (54 cu ft of slurry, 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 -

Lead w/104 sacks Premium Lite with 3% calcium chloride, 5 ps LCM-1, and 1/4#/sack celloflake, 0.4% FL-52, & 0.4% SMS. Tail with 90 sacks Type III cmt with 1% calcium chloride, 1/4#/sack celloflake and 0.2% FL-52 (345 cu ft, 50% excess to circulate to surface).

Note: If open hole logs are run, cement volumes will be based on 25% excess over caliper volumes.

BOP and Tests:

From surface to 7" TD -

a choke manifold will be installed in accordance with Onshore Order No. 2 (Reference Figure #3). When the cavitation completion rig drills the production hole, the completion rig configuration will be used (Reference Figure #4).

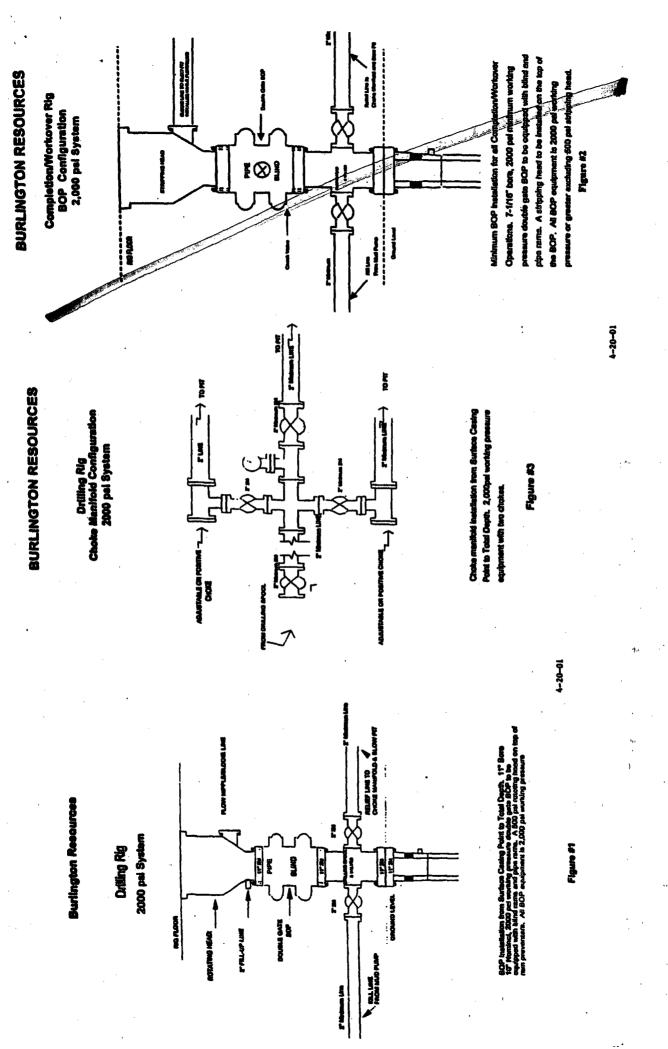
Pipe rams will be actuated at least once each day and blind rams actuated once each trip to test proper functioning. An upper kelly cock valve with handle and drill string safety valves to fit each drill string will be maintained and available on the rig floor.

Additional Information:

- The Fruitland Coal formation will be completed.
- Anticipated pore pressure for the Fruitland is less than 500 psi.
- This gas is dedicated.
- The E/2SW/4, Lot 3, W/2SW/4, Lot 4, S/2NW/4 of Section 5 is dedicated to Fruitland Coal.

Drilling Engineer

Date



BURLINGTON

RESOURCES

Figure #4

Cavitation Rig

BOP Configuration

2,000 psi Minimum System

