UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

	APPLICATION FOR PERMIT TO DRILL, DEEP	PEN, OR PLUG BACK
a.	Type of Work DRILL	5. Lease Number SF-080781 Unit Reporting Number
b.	Type of Well GAS	6. If Indian, All. or Tribe
	Operator BURLINGTON RESCURCES Oil & Gas Company	7. Unit Agreement Name
.	Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499	8. Farm or Lease Name
	(505) 326-9700	9. Well Number 100S
}.	Location of Well Unit I (NESE), 1660' FSL, 755' FEL	10. Field, Pool, Wildcat Basin Fruitland Coal
	Latitude 36° 41.6396 Longitude 107° 48.8157	11. Sec., Twn, Rge, Mer. (NMPM) Sec. 30, T29N, R9W
		API # 30-045-33750
4.	Distance in Miles from Nearest Town 10.5 miles to Bloomfield, NM	12. County 13. State San Juan NM
15.	Distance from Proposed Location to Nearest Property or Lease L	Line
16.	Acres in Lease	17. Acres Assigned to Well FC 268.42 ac S2
18.	Distance from Proposed Location to Nearest Well, Drlg, Compl, 52' - Cain 3R	or Applied for on this Lease
19.	Proposed Depth 2295'	20. Rotary or Cable Tools Rotary
21.	Elevations (DF, FT, GR, Etc.) 5705'GL	22. Approx. Date Work will Start
23.	Proposed Casing and Cementing Program See Operations Plan attached	
24.	Authorized by: Munua / Munual / Regulatory Compliance Assistant	5/18/06 Date
	T-10	
	oved by Mankey Title AF	DATE 6/15/56
Threa NOTE:	eological Report attached tened and Endangered Species Report attached This format is issued in lieu of U.S. BLM Form 3160-3 8 U.S.C. Section 1001, makes it a crime for any person knowingly and wi States any false, fictitious or fraudulent statements or presentations as to	



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. 88210

DISTRICT III 1000 Rio Brazos Rd., Axtec, N.M. 87410 OIL CONSERVATION DIVISION

2040 South Pacheco Santa Fe, NM 87505 Submit to Appropriate District Office State Lease - 4 Copies

State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

2040 South Pacheco, Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	* Pool Code	Pool Name	
30-045- 3375	0 71629	Basin Fruitland Coal	
⁴ Property Code		⁶ Property Name	• Well Number
18487		CAIN	1008
OGRID No.		Operator Name	Elevation
14538	BURLINGTON RESOURCE	CES OIL AND GAS COMPANY LP	5705'

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
I	30	29-N	9-W	(8)	1660'	SOUTH	755'	EAST	SAN JUAN

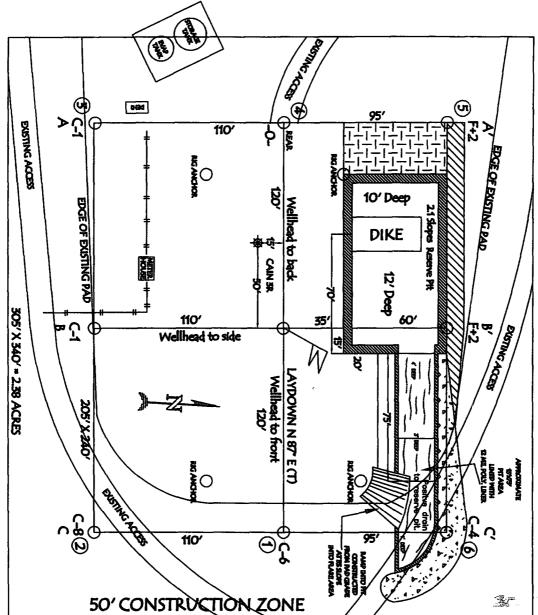
¹¹ Bottom Hole Location If Different From Surface

	bottom note location if billetent from buriace									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
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		<u> </u>		<u> </u>					<u> </u>	
Dedicated Acres	;		¹⁰ Joint or	hfill	¹⁴ Consolidation (ode	¹⁰ Order No.			,
1			}		1	İ				
FC 268.	42 S2 -		ŀ			1				!

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

LOT 1				17 OPERATOR CERTIFICATION I hereby certify that the information contained herein to true and complete to the best of my knowledge and belief
			LOT 5	Muline Thenyell
LOT 6	<u> </u>	A	LOT 7	Philana Thompson Printed Name Regulatory Assistant IIT Title 2/23/2006 Date
LOT 11	J	LAT: 36'41.6396' N. LONG: 107'48.8157' W. NAD 1927	LOT 8	18 SURVEYOR CERTIFICATION I hereby certify the the well location shows on this was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belig!
	LOT 10	LOT 9	82	Date of Survey 2006
10T 12		USA SF-080781	1660'	Signature care real attribution surveyor.
4	LOT 13	LOT 14 8 89'48'4'	<u>LOT 15</u>	Certificate Number 1570\$

	State of New Mexico	Form C-103
Office District I	Energy, Minerals and Natural Resources	May 27, 2004
1625 N. French Dr., Hobbs, NM 88240 District II		WELL API NO. 30-045- 33750
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		SF-080781
•	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	•	Cain
PROPOSALS.)		O. W. H.V.
1. Type of Well: Oil Well Gas Well X	Other	8. Well Number
2. Name of Operator		9. OGRID Number
	RCES OIL & GAS COMPANY LP	14538 10. Pool name or Wildcat
3. Address of Operator 3401 E. 30TH STRE	ET, FARMINGTON, NM 87402	Basin Fruitland Coal
4. Well Location		
Unit Letter I : 16 Section 30	60 feet from the South line and Township 29N Rng 9W	755 feet from the <u>East</u> line NMPM County San Juan
	levation (Show whether DR, RKB, RT, GR, etc.)	THAT IT
Pit or Below-grade Tank Application	or Closure 5705'	
		>1000 Distance from nearest surface water <200
Pit type New Drill Depth to Groundwar Pit Liner Thickness: 12	er Distance from nearest fresh water well mit Below-Grade Tank: Volume	>1000 Distance from nearest surface water <200 bbls; Construction Material
NOTICE OF IN	ppropriate Box to Indicate Nature of No	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON REMEDIA	·
TEMPORARILY ABANDON	CHANGE PLANS COMMEN	CE DRILLING OPNS. P AND A
PULL OR ALTER CASING	MULTIPLE COMPL CASING/	CEMENT JOB
OTHER: New I	orill X OTHER:	 1
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13. Describe proposed or completed	operations. (Clearly state all pertinent details, and	
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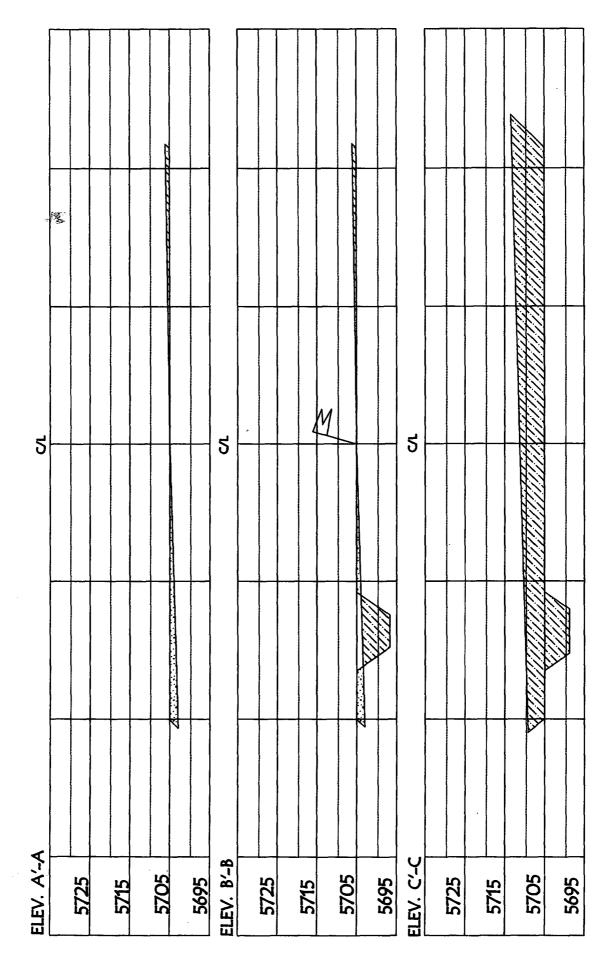
NOTE: VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.

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.

LAT: 36' 41.6396' N LONG: 107' 48.8157' W NAD27

SECTION 30, T-29- N, R-9-W, NMPM, SAN JUAN COUNTY, NM GROUND ELEVATION: 5705', DATE: FEBRUARY 10, 2006 BURLINGTON RESOURCES OIL & GAS COMPANY P



CONTRACTOR SHOVID 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. NOTE: VECTOR SURVEYS IS NOT LLABLE FOR UNDERGROUND UTILITIES OR PIPELINES.

OPERATIONS PLAN

Well Name:

Cain #1005

Location:

Unit I (NESE) 1660' FSL & 755' FEL, Section 30, T29N, R9W

San Juan County, New Mexico

Latitude 36° 41.6396'N; Longitude 107° 48.8157W

Formation:

Basin Fruitland Coal

Elevation:

5705' GR

Formation:	Тор	Bottom	Contents
Surface	San Jose		
Ojo Alamo	997'		
Kirtland	1080'	1837'	gas
T/Fruitland	1837'	2095'	gas
Pictured Cliffs	2095'		_
Total Depth	2295'		

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:

Interval	Type	<u>Weight</u>	Vis. Fluid Loss
0- 120'	Spud/Air/Air Mist	8.4-8.9	40-50 no control
120-2295'	Non-dispersed	8.4-9.5	30-60 no control

Casing Program:

<u>Hole Size</u>	Depth Interval	Csq.Size	<u>W†.</u>	<u>Grade</u>
8 3 "	0 - 120'	7"	20.0#	J-55
6 1 "	0 - 2295'	4 1/2"	10.5#	J/K-55

Tubing Program:

0 - 2295'	2 3/8"	4.7#	J-55
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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 @ 1080'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 1080'. 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" x 11" 2000 psi xmas tree assembly.

Page 2 Cain #1005

Cementing:

7" surface casing Pre-Set Drilled - Cement with Type I, II cement with 20% flyash mixed at 14.5 ppg, 128 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 108sx (229 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 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 353 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 remote 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 southwest quarter of section 30 is dedicated to the Basin Fruitland Coal.
- New casing will be utilized.
- * Pipe movement (either rotation or reciprocation) will be done if hole conditions permit.

Drilling Engineer Date

10-02-

preseure or greater enakeding 600 pel atripping head.

Pignre #2

ment is 2000 pet world:

e rams. A stripping head to be insta