Form 3160-3 (August 1999)

## UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB NO. 1004-0136 Expires: November 30, 2000

APPLICATION FOR PERMIT TO	DRILL OR F	REENTER	5.	Lease Serial NMNM 300	
. Type of Work X DRILL	REENTER	771 11 -5 MI	: 02 6.		lotee or Tribe Name
Type of Well Oil Well X Gas Well Othe	т 🔲 Sii	ngle Zone — Multiple Zon	e\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Unit or CA	Agreement Name and No.
Name of Operator		Caroni Ca	8.	Lease Name	and Well No.
Inergen Resources Corporation		3b. Phone No. (include area co	40)	Carracas	
. Address		24 - J 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	g. 9.	API Well No	
2198 Bloomfield Highway Farmington, New Me.  Location of Well (Report location clearly and in accordance with			<del> .</del>		039 2756
At surface 1510' FSL 1350' FEL				Basin Fr	ol, or Exploratory Puitland Coal M., or Blk. and Survey or
At proposed prod. zone		703			-T32N-R04W NMPM
Distance in miles and direction from nearest town or post office*		prof of		County or P	
33 miles NE of G				<u>o Arriba</u>	
location to nearest property or lease line, ft. 1350 '	16.1	No. of Acres in lease	17. Spacir	ng Unit dedic	eated to this well
(Also to nearest drg. unit line, if any)		2402.2	<u> </u>	20	
3. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 2150'	19.1	Proposed Depth 4202'	20.BLM	BIA Bond l	No. on file
. Elevations (Show whether DF, KDB, RT, GL, etc.	22	Approximate date work will sta	rt*	23 Estimat	ted duration
7367' GL	12.	09/04	••	23. Estitia	5 days
well plat certified by a registered surveyor.  A Drilling Plan  A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office).		4. Bond to cover the operat Item 20 above). 5. Operator certification. 6. Such other site specific in	ions unless	covered by	an existing bond on file (so
	·····	authorized officer.		· · · · · · · · · · · · · · · · · · ·	
5. Signuature		(Printed/Typed)			Date
Doug Iromas burg	Doug	Thomas			12/26/03
Drilling & Completion Foreman	2.1				
pproved by (Stepautro) W. Anche Co	Name (	(Printed/Typed)			Date -8-05
itle AFM	Office	FFO			
pplication approval does not warrant or certify that the applicant onduct operations thereon. conditions of approval, if any, are attached.	holds legal or e	equitable title to those rights in	the subject	lease which	would entitle the applica
itle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, mak tates any false, fictitious or fraudulent statements or representations			ully to mak	e to any dep	artment or agency of the U
and any many notifical of fraudalone bacterions of representations	us to unij matte				

CHARGE TO COL MARCE ARE ATTACHED "GENERAL REQUIREMENTS".

procedural review pursuant to 43 CFR 3165,3 and appeal pursuant to 43 CFR 3165,4

District I PO Box 1980, Hobbs, NM 88241-1980

District II PO Drawer DD, Artesia, NM 88211-0719

District III 1000 Rio Brazos Rd., Aztec, NM 87410

UL or lot no.

District IV PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe. NM 87504-2088

Form C-102 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies

Fee Lease - 3 Copies

AMENDED REPORT

### WELL LOCATION AND ACREAGE DEDICATION PLAT

	30-039-2756 5	*Pool Code 71629	Pool Name BASIN FRUITLAND COAL				
	Property Code	*Pr C	*Well Number 198–10				
	°осять No. 162928	ENERGEN RESC	°Elevation 7367				
10 Cunface Leastion							

<sup>™</sup> Surface Location Lot Idn Feet from the North/South line 19 35N 4W

1510

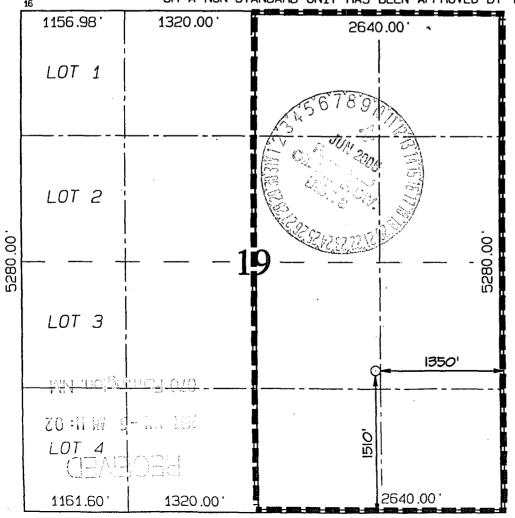
Feet from the East/West line RIO 1350 EAST ARRIBA

<sup>11</sup>Bottom Hole Location If Different From Surface

SOUTH

UL or lot no. Section Lot Idn North/South line Feet from the East/West line County 12 Dedicated Acres <sup>13</sup>Joint or Infill <sup>14</sup> Consolidation Code <sup>25</sup> Order No. 320.0 Acres - (E/2)

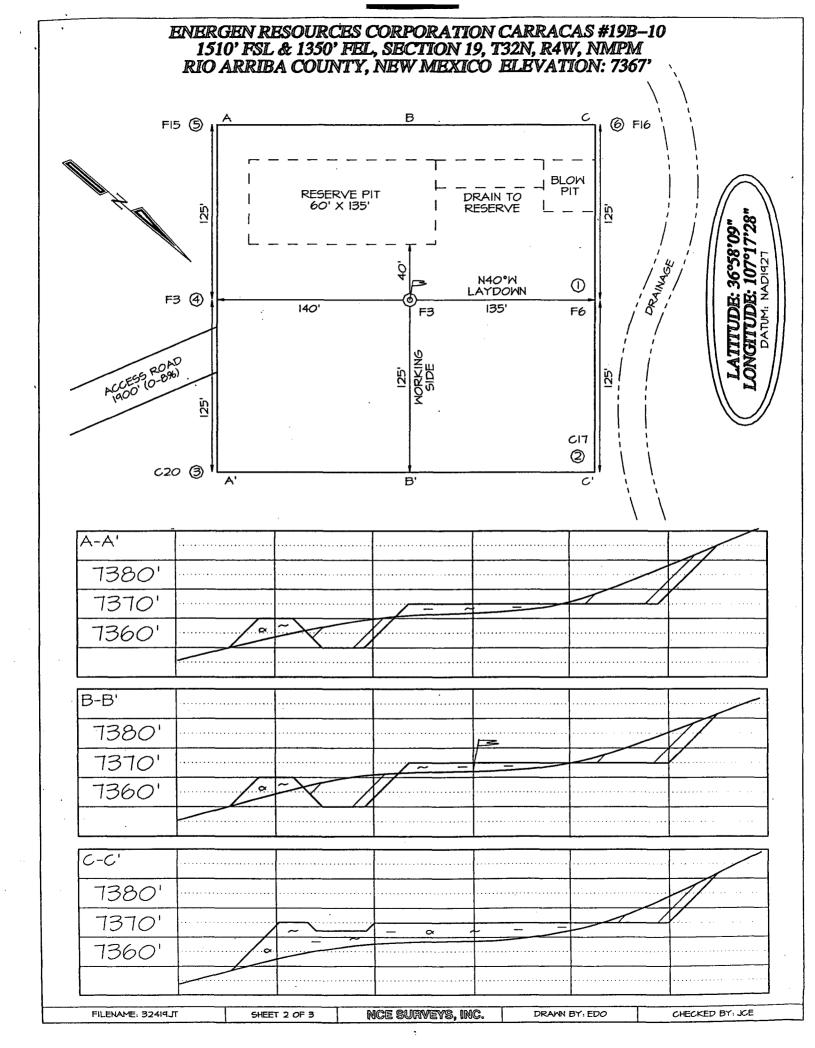
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



"OPERATOR CERTIFICATION
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief
- for traham
Signature
Don Graham
Printed Name
Production Superintendant
Title
12-23-03
Date .
*SURVEYOR CERTIFICATION
I hereby certify that the well location shown on this plat 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 belief.
Survey Date: OCTOBER 16, 2003
Signature and Seal of Professional Surveyor
2 50
SECON C. EDWARDS
ARCHESSION OF
AO ESSIONAL
JASON C. EDWARDS

Certificate Number

15269



### **OPERATIONS PLAN**

WELL NAME: Carracas 19B #10

LOCATION: 1510' FSL, 1350' FEL, Section 19, T32N, R4W, Rio Arriba County, NM ELEVATION: 7367' GL

**Basin Fruitland Coal** FIELD:

### **FORMATION TOPS:**

Surface San Jose Nacimiento 2077 Ojo Alamo 3452 Kirtland 3592 Fruitland 3987

Total Depth 4202

### LOGGING PROGRAM:

Open Hole Logs:

Surface to intermediate- Yes Inter TD to total depth: None

Mud Logs:

Intermediate to total depth

Coring:

None

Natural Gauges:

Every 500' from intermediate TD to total depth

MUD PROGRAM: Fresh water low solids mud from surface to intermediate TD (9.0 PPG). Air/mist from intermediate casing point to total depth.

### **CASING PROGRAM:**

<b>HOLE SIZE</b>	<u>DEPTH</u>	CSG SIZE	$\underline{\text{WT.}}$	<u>GRADE</u>
12 ¼"	200'	9 5/8"	32.3#	H-40-ST&C
8 3/4"	4057'	7"	23#	J-55 – LT&C
6 1/4"	3957'-4202'	5 ½"	15.5#	J-55 – LT&C

### **TUBING PROGRAM:**

4150' 2 3/8" 4.7# J-55

WELLHEAD: 11" 3000 x 9 5/8" casing head. 11" 3000 x 7 1/16" 3000 xmas tree.

### **BOP SPECIFICATIONS:**

An 11" 2000 psi minimum double gate BOP stack (Figure 1) will be used following nipple up of casing head. During air drilling operations, a Shaffer Type 50 or equivalent rotating head will be installed on top of the stack. A 2" nominal, 2000 psi minimum choke manifold will be used. An upper Kelly Cock valve with handle available and drill string valve to fit each drill string will be available on the rig floor during drilling operations.

### **CEMENTING:**

9 5/8" surface casing - cement with 110 sks Class B Cement with ¼" flocele/sk and 2% calcium chloride (130 cu. ft. of slurry, 100% excess to circulate to surface). WOC 12 hrs. Test casing to 600# for 30 minutes.

Texas Pattern Guide Shoe on bottom. 3 bow type centralizers spaced throughout the string.

7" intermediate casing – cement with 535 sks 65/35 Class B Poz with 6% gel, 2% calcium chloride, 10% gilsonite, and ¼# flocele/sk. Tail with 100 sks Class B w/2% calcium chloride, 10% gilsonite and ¼# flocele/sk. (1158 cu. ft. of slurry, 90% excess to circulate to surface). WOC 12 hrs. If cement does not circulate, run temperature survey in 8 hrs. to determine TOC. Test casing to 1200 psi for 30 minutes.

Cement nose guide shoe on bottom with a self-fill insert float valve on top of shoe joint. 10 bow spring centralizers spaced every 2nd joint off bottom. Two turbolating centralizers at the base of the Ojo Alamo.

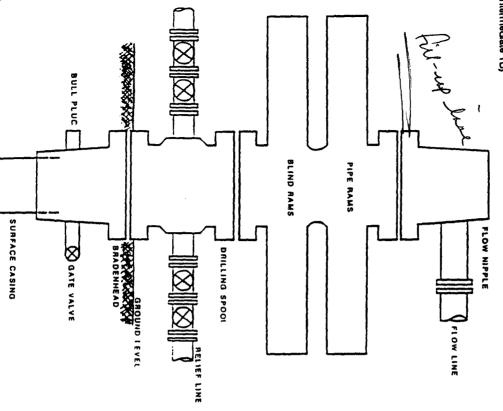
### 5 1/2" liner - NO CEMENT

### **OTHER INFORMATION:**

- 1) The Basin Fruitland Coal will be completed.
- 2) No abnormal temperatures or pressures are anticipated.
- 3) If lost circulation is encountered sufficient LCM will be added to the mud system to maintain well control.
- 4) This gas is dedicated.
- 5) Anticipated pore pressure for the Fruitland is 700 psi.

# Figure #1

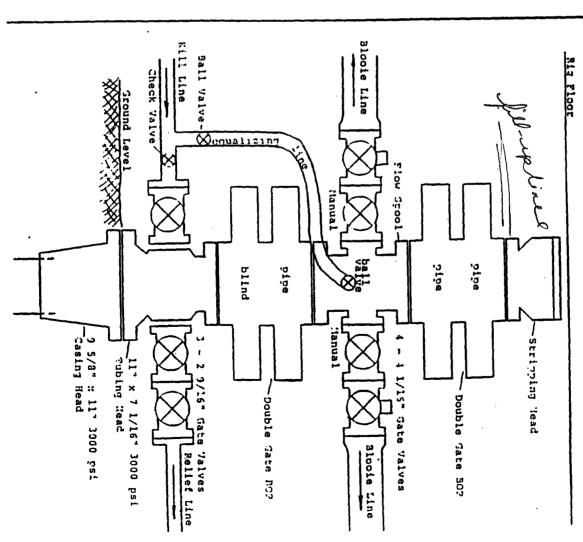
TYPICAL B.O.P.E. INSTALLATION FOR A FRUITLAND COAL WELL (to Intermediate TD)



Series 900 double gale BOP Raled at 3000 psi working pressure

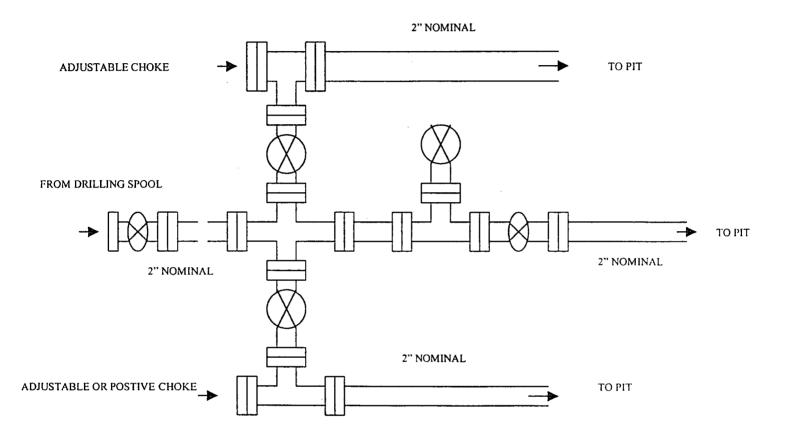
## Figure #2

FRUITLAND COAL WELL
TYPICAL BOP CONFIGURATION
7 1/16" 3000 psi (minimum) BOP STACK
((rom intermediate to total depth)



## **ENERGEN RESOURCES CORPORATION**

Choke Manifold Configuration 2M psi System



Minimum choke manifold installation from surface to Total Depth. 2" minimum, 2000 psi working pressure equipment with two chokes.