Form 3160-3 (September 2001)

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

FORM APPROVED OMB NO. 1004-0136 Expires January 31, 2004

•	المرابع للسنا المرابع	5. Lease S	anial XIa	
APPLICATION FOR PERMIT T	O DRILL OR REENTER	SF-08	10657 MM MM 02853	
Type of Work X DRILL	REENTER		n, Allotee or Tribe Name	
<u></u> _	" 2 <b>0</b> 4 ≯90 -	8 PM <u>1:46</u>		
Type of Well Oil Well X Gas Well O	ther X Single Zone Multipl	C ZOILC	CA Agreement Name and No.	
Name of Operator	070 Farm		luan 32-5 Unit lame and Well No.	
nergen Resources Corporation	Or O T Carr	-		
Address	3b. Phone No. (include a	rea code) 9. API We	<u>luan 32-5 Unit</u> 111S	
198 Bloomfield Highway Farmington, New	Mexico 87401 (505)325-68		039 27700	
Location of Well (Report location clearly and in accordance			d Pool, or Exploratory	
At surface 2300' FSL. 950' FEL -	06.30.51	Basin	Fruitland Coal	
	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	11. Sec., T.	, R., M., or Blk. and Survey or Area	
At proposed prod. zone	EG MI	% Sec.3	C T32N, ROW, N.M.P.N	
Distance in miles and direction from nearest town or post office	* & &			
17 miles northeas	of Gobernador, NA C	2004 Rio Arr	iba NM	
Distance from proposed*	16. No. of Acres in lease		ledicated to this well	
location to nearest	E CONTRACTOR			
property or lease line, ft. 950 (Also to nearest drg. unit line, if any)	117.17		345.59	
· · · · · · · · · · · · · · · · · · ·				
Distance from proposed location* to nearest well, drilling, completed,	19. Proposed Depth	20. BLM/BIA B	ond No. on file	
applied for on this lease ft	20071			
100	3387'			
Elevations (Show whether DF, KDB, RT, GL, etc.	22. Approximate date work v	vill start* 23. Es	nated duration	
6522' GL	July 04		5 days	
	24. Attachments			
ne following, completed in accordance with the requirements of	Onshore Oil and Gas Order No. 1, shall be at	tached to this form:		
Well plat certified by a registered surveyor.	4. Bond to cover the	perations unless covered	by an existing bond on file (see	
A Drilling Plan	Item 20 above).			
A Surface Use Plan (if the location is on National Forest Syst				
SUPO shall be filed with the appropriate Forest Service Offic	e). 6. Such other site sperautherized officer.	cific information and/or p	lans as may be required by the	
	authorized officer.			
Signuature	Name (Printed/Typed)		Date	
hour Thomas	Doug Thomas		4/07/04	
tle				
Drilling Superintendent				
pproved by (Signautre)	Name (Printed/Typed)		Date	
	Traine (1 timess Types)		7-13-04	
Affantiews)			1-13-81	
tle 9	Office			
AFM	L PFO			
oplication approval does not warrant or certify that the application	nt holds legal or equitable title to those rig	hts in the subject lease v	which would entitle the applicant to	
onduct operations thereon.  onditions of approval, if any, are attached.				
monitoris of approval, it airy, are attached.				
tle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, r	ake it a crime for any person knowlingly and	willfully to make to any	department or agency of the United	
ates any false, fictitious or fraudulent statements or representati	ons as to any matter within its jurisdiction.	<u>.</u>		
Instructions on Reverse)		<u> </u>		



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

District IV PO Box 2088, Santa Fe, NM 87504-2088 State of New Mexico Energy, Minerals & Natural Resources Department

> Subi SION

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Form C-102 Revised February 21, 1994 Instructions on back Appropriate District Office

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

AMENDED REPORT

### OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

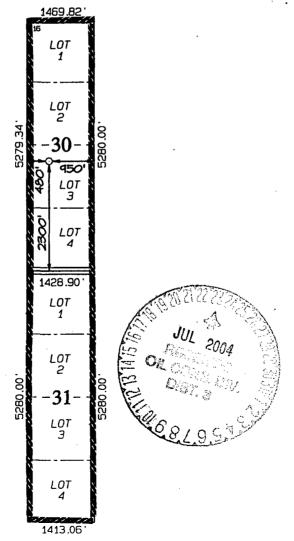
### WELL LOCATION AND ACREAGE DEDICATION PLAT

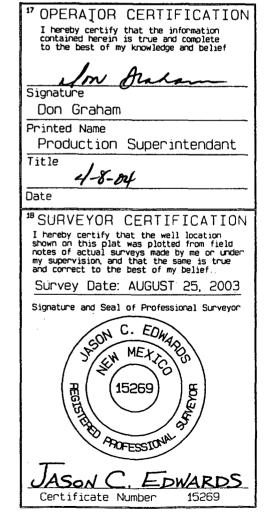
30-039-27700	7 Pool Code 7 1629	Pool Name BASIN FRUITLA	
Property Code		operty Name AN 32-5 UNIT	*Well Number 111S
70GAID No. 162928	,	erator Name OURCES CORPORATION	*Elevation 6522
	40.0	11	<del></del>

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County RIO
	30	32N	5W		2300	SOUTH	950	EAST	ARRIBA
<sup>11</sup> 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
<sup>12</sup> Dedicated Acres		345.59 Section		and 31	<sup>13</sup> Joint or Infill	<sup>34</sup> Consolidation Code	15 Order No.	1847	

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





### **OPERATIONS PLAN**

WELL NAME: San Juan 32-5 #111S

LOCATION: 2300' FSL, 950' FEL, Section 30 & 31, T32N, R5W, Rio Arriba County, NM

FIELD: Basin Fruitland Coal <u>ELEVATION:</u> 6522' GL

### **FORMATION TOPS:**

Surface San Jose
Nacimiento 1322
Ojo Alamo 2612
Kirtland 2727
Fruitland 3147

Total Depth 3387

### **LOGGING PROGRAM**:

Open Hole Logs:

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

Mud Logs:

Intermediate to total depth

Coring:

None

Natural Gauges:

Every 500' from intermediate TD to total depth

<u>MUD PROGRAM</u>: 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>	<b>DEPTH</b>	CSG SIZE	$\underline{\text{WT.}}$	<u>GRADE</u>
12 1/4"	200'	9 5/8"	32.3#	J-55 – ST&C
8 3/4"	3227'	7"	23#	J-55 – ST&C
6 1/4"	3127'-3387'	5 ½"	15.5#	J-55 – LT&C

### **TUBING PROGRAM:**

3360' 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 375 sks 65/35 Class B Poz with 6% gel, 2% calcium chloride, 10% gilsonite, and ½# flocele/sk. Tail with 100 sks Class B w/2% calcium chloride, 10% gilsonite and ½# flocele/sk. (850 cu. ft. of slurry, 75% 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.

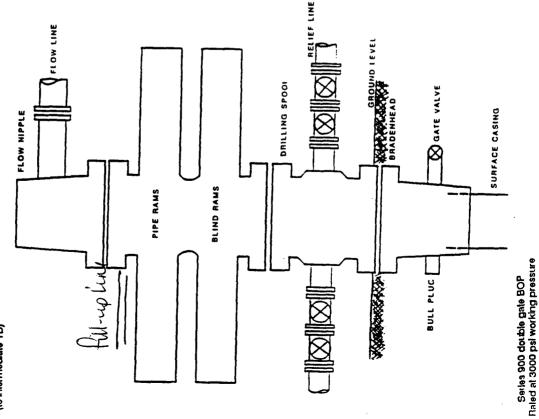
### 5 ½" liner – NO CEMENT

### 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.
- 6) No H2S is anticipated during or in the drilling, completion, or production of this well.

## Figure #1

TYPICAL B.O.P.E. INSTALLATION FOR A FRUITLAND COAL WELL (10 htlemediate TD)



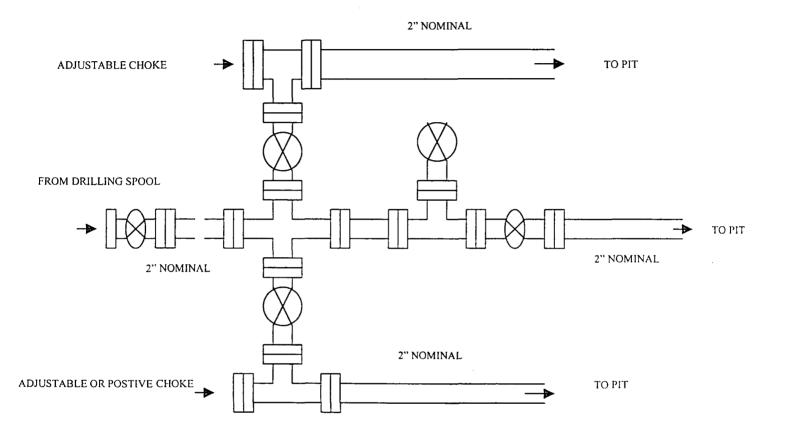
# Figure #2

FRUITLAND COAL WELL
TYPICAL BOP CONFIGURATION
7 1/16\* 3000 psi (minimum) BOP STACK
(from inhermediate to total depth)

11" x 7 1/16" 3000 psi -Double Gate RC2 Double Gate 302 4 - 1 1/15" Gate Valves 7alves Relief Bloote 9 5/8" : 11 3000 ps. Casing Head -Stringing lead Tubing Read - 2 3/16" : lanual blind otoe pipe acic Flow Spool-:tanua! Sround Level Check Valve Ball Valve-Ria Floor Bloote Line Kill Line

### **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.

