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

LL OR REENTER	NMNM 30015		
TER Agos : near	6. If Indian, Allotee or Tribe Name		
Single Zone Multiple Zone	7. Unit or CA Agreement Name and No.		
	8. Lease Name and Well No.		
12h Dhara Na /inghula ang aga	Carracas 19B #11		
# 12 15 16 16 16 16 16 16 16 16 16 16 16 16 16	9. API MEII NO.		
	30039 27564		
Juni 3	10. Field and Pool, or Exploratory Basin Fruitland Coal		
(c) 2005 (c)	11. Sec., T., R., M., or Blk. and Survey or A		
E Out The E	K-Sec.19-T32N-R04W NMPM		
To the same	12. County or Parish 13. State		
nador NM	Rio Arriba NM		
16. No. of Acres in lease	17. Spacing Unit dedicated to this well		
	7		
2402.2	300,52W/2		
19. Proposed Depth	20.BLM/BIA Bond No. on file		
4088			
22. Approximate date work will star	t* 23. Estimated duration		
09/04	5 days		
24. Attachments Oil and Gas Order No. 1, shall be attached	to this form:		
1			
4. Bond to cover the operations unless covered by an existing bond on file (see			
•	1,		
	formation and/or plans as may be required by the		
authorized officer.			
Name (Printed/Typed)	Date		
Doug Thomas	12/26/03		
Name (Printed/Typed)	Date		
	6-13-0		
Office			
FFA			
legal or equitable title to those rights in	the subject lease which would entitle the applicant		
	and the special services and services are appropriate		
crime for any person knowlingly and willfu	illy to make to any department or agency of the Uni		
	Single Zone		

*(Instructions on Reverse)

This action is subject to technical and procedural review pursuant to 43 CFR 3165 a and appeal pursuant to 43 CFR 3165 a

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".



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

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

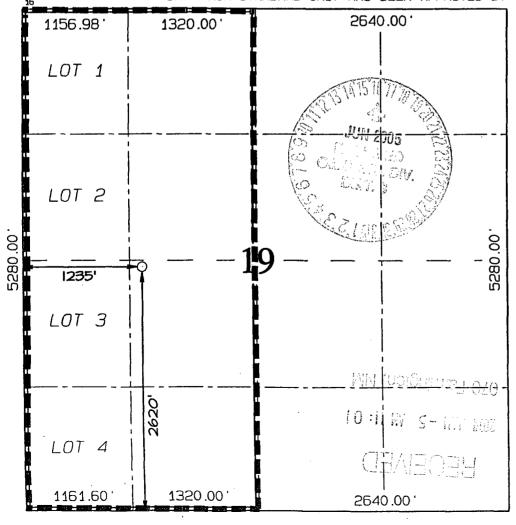
WELL LOCATION AND ACREAGE DEDICATION PLAT

30-039-27564		*Pool Code 71629	Pool Name BASIN FRUITLAN	
Property Code	·		Property Name CARRACAS 198	Well Number
'OGRID №. 162928			Operator Name SOURCES CORPORATION	*Elevation 7318

¹⁰ Surface Location

	00. 1000 200001									
	UL or lot no. K	Section 19	Township 32N	Range 4W	Lot Idh	Feet from the 2620	North/South line SOUTH	Feet from the 1235	East/West line WEST	RIO ARRIBA
¹¹ 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
			<u> </u>	<u> </u>	<u> </u>	<u> </u>				<u></u>
	300.52 Acres - (W/2)			³³ Joint or Infill	¹⁴ Consolidation Code	⁵ Order No.				
						i .	l	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



"OPERATOR CERTIFICATION
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief
Now Auxan
Signature
Don Graham
Printed Name
Production Superintendant
Title
12-63-03
Date
18 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
SECON C. EDWARDS SECON C. EDWARDS MEXICO SECON MEXICO
JASON C. EDWARDS Certificate Number 15269

ENERGEN RESOURCES CORPORATION CARRACAS 19B #11 2620' FSL & 1235' FWL, SECTION 19, T32N, R4W, NMPM RIO ARRIBA COUNTY, NEW MEXICO ELEVATION: 7318' DRAINAGE FI2 (5) 6 F5 C BLOW PIT RESERVE PIT DRAIN TO RESERVE 25 LATITUDE: 36°58'20" CONGITUDE: 107°17'59' DATUM: NADI927 NORTH LAYDOWN FIO (4) (I) CIO 135' 140 ACCESS ROAD 1400' (0-8%) MORKING SIDE 25, 25 F6 ③ A-A' 7323' 7313' 7303' B-B' 7323' 7313' 7303' 0-01 7323' 7313' 7303' FILENAME: 32419LT SHEET 2 OF 3 NCE SURVEYS, INC. DRAWN BY EDO CHECKED BY: JCE

OPERATIONS PLAN

ELEVATION: 7318' GL

WELL NAME: Carracas 19B #11

LOCATION: 2620 FSL, 1235' FWL, Section 19, T32N, R4W, Rio Arriba County, NM

FIELD: Basin Fruitland Coal

FORMATION TOPS:

Surface San Jose
Nacimiento 1963
Ojo Alamo 3353
Kirtland 3503
Fruitland 3888

Total Depth

4088

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

<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:

HOLE SIZE	DEPTH	CSG SIZE	<u>WT.</u>	<u>GRADE</u>
12 1/4"	200'	9 5/8"	32.3#	H-40 - ST&C
8 3/4"	3958'	7"	23#	J-55 – LT&C
6 1/4"	3858'-4088'	5 ½"	15.5#	J-55 – LT&C

TUBING PROGRAM:

4050' 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 1/4" 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 520 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. (1130 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.

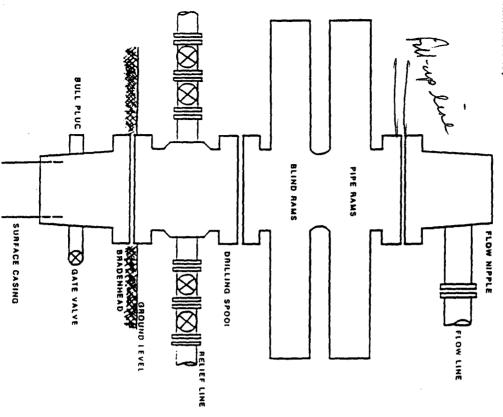
5 1/2" liner - NO CEMENT

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

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

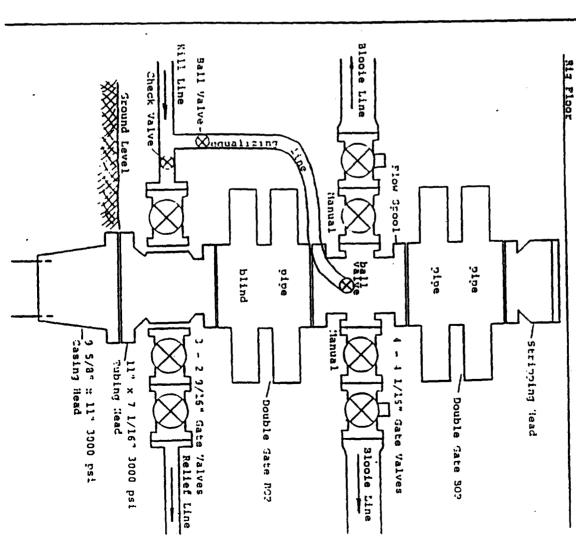


Series 900 double gale BOP Raied at 3000 psi working pressure

Figure #2

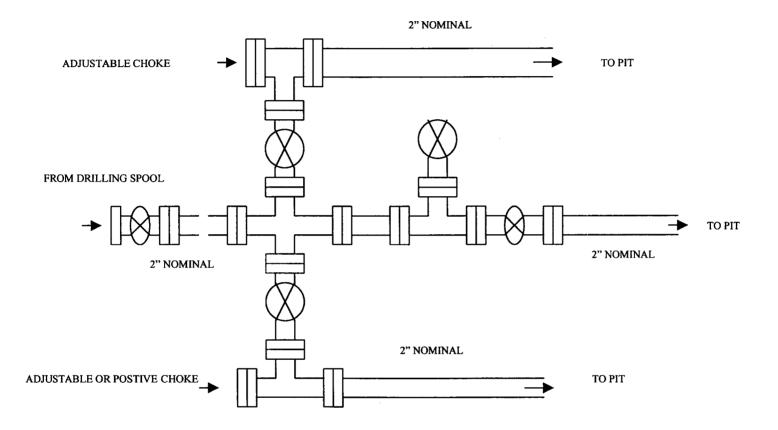
FRUITLAND COAL WELL
TYPICAL BOP CONFIGURATION
7 1/16" 3000 psi (minimum) BOP STACK

(from 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.