Form 3160-3 UNITED STATES (August 1999) DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEME	Exp	FORM APPROVED OMB NO. 1004-0136 Expires: November 30, 2000					
APPLICATION FOR PERMIT TO DRILL O		5. Lease Serial No. SF - 079483					
la. Type of Work X DRILL REENTER	n. Type of Work X DRILL REENTER 70 JUL - 1 Ph 12: 2						
1b. Type of Well Oil Well X Gas Well Other	Single Zone Multiple Zone	NN 7. Unit or CA	Agreement Name and No.				
Name of Operator Energen Resources Corporation		8. Lease Name and Well No.					
3a. Address		Carson 204S					
2198 Bloomfield Highway Farmington, New Mexico 87		20039 27476					
4. Location of Well (Report location clearly and in accordance with any State At surface 1035 'FSL, 755' FEL	e equirements)	10. Field and Po Basin F	ool, or Exploratory ruitland Coal				
At proposed prod. zone	Sec. 6,	11.Sec., T., R., M., or Blk. and Survey or Ard Sec. 6, T30N, R4W, N.M.P.M.					
14. Distance in miles and direction from nearest town or post office*		12. County or 1	Parish 13. State				
10 miles Northeast of Gobernad		Rio Arrib					
Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drg. unit line, if any)	16.No. of Acres in lease 1213488	17. Spacing Unit dedi	E/2				
18. Distance from proposed location* to nearest well, drilling, completed,	19. Proposed Depth	20.BLM/BIA Bond No. on file					
applied for, on this lease, ft. 5600'	3978'						
21. Elevations (Show whether DF, KDB, RT, GL, etc.	22. Approximate date work will start	* 23.Estima	stimated duration				
7178' GL	July 2004		6 Days				
24	. Attachments						
The following, completed in accordance with the requirements of Onshore Oil a	and Gas Order No. 1, shall be attached	to this form:					
 Well plat certified by a registered surveyor. A Drilling Plan A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). 	4. Bond to cover the operation Item 20 above). 5. Operator certification. 6. Such other site specific information authorized officer.						
25. Signuature N	lame (Printed/Typed)		Date				
houghours 1	Ooug Thomas	07/30/03					
Drilling & Completion Foreman							
	lame (Printed/Typed)	Date					
Title Achne Field Manager - Minerals	Office		1 21 21 3				

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowlingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on Reverse)

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 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

476.52 1320.00

State of New Mexico Energy, Minerals & Natural Resources Department

Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

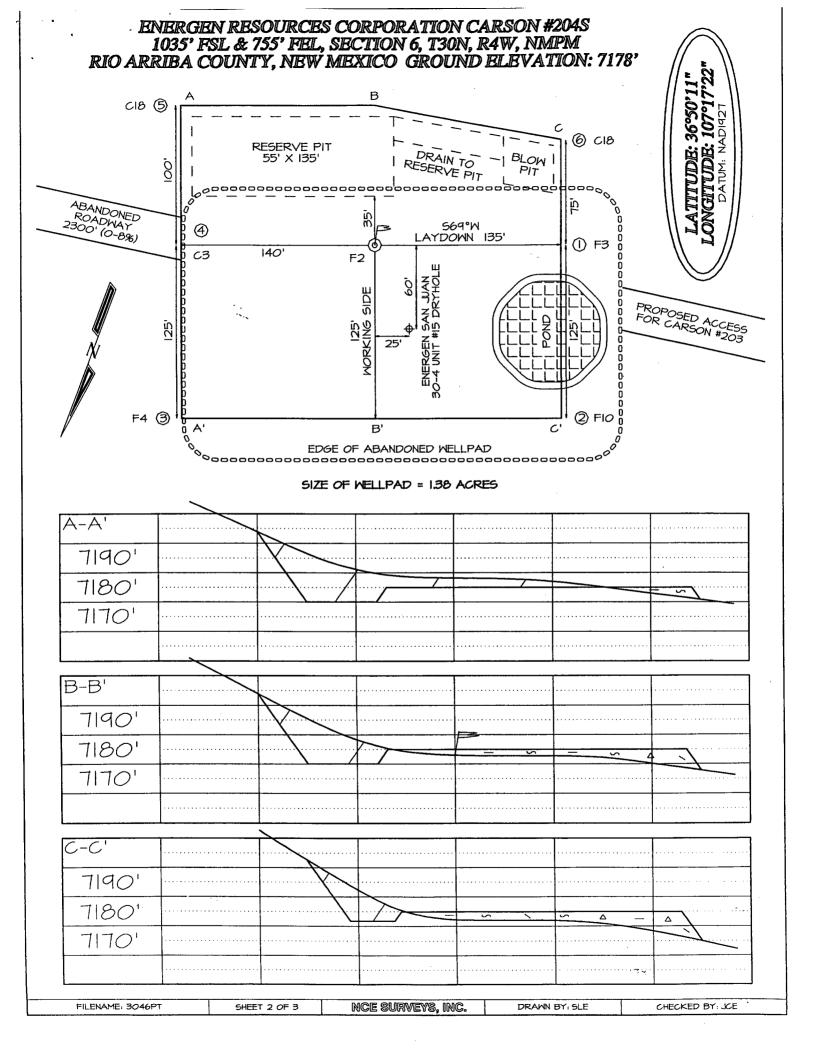
OIL CONSERVATION DIVISION DE PO Box 2088

Santa Fe, NM 87504-2088

103 JUL - 1 PM 12: 34 AMENDED REPORT

				WELL	LOCATI	ON AND A	CREAGE D	EDI	GATEOM, PU	A T		
'API Number 'Pool Code 31-029 71629					AND ACREAGE DEPLICATION, PLAT POOL Name BASIN FRUITLAND COAL							
19roperty Code 17/1/85			, 1025	Property Name CARSON				Well Number				
70GAID No. 162928 ENE			ENERGE	*Operator Name ENERGEN RESOURCES CORPORATION			ION		*Elevation			
L			·			¹⁰ Surface	Location					
		Ránge√ 4W					Feet from the			County RIO ARRIBA		
UL or	r lot no.	Section	11 Township	Ottom Pange	Hole L	ocation I	f Differer		From Surfa	BCB East/West	line	County
¹² Ded ica	ited Acres	340	.98 Acre)c - (E/2)	¹³ Joint or Infill	³⁴ Consolidation Cod	le ¹⁵	Onder No.			
		1811.7	· · · · · · · · · · · · · · · · · · ·			2640.00:			NO ALL DIVADILE	WTU DE		AICD TO THE
	16	LOT			LOT 2	2640.00°	OT 1	l	NO ALLOWABLE COMPLETION BEEN CONSOL JNIT HAS BEEN	UNTIL AL IDATED O	L INTE	RESTS HAVE
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1320.00	8 107				0 0	MAT 2005	CLOULDS STATE	1320.00:	Title	Stion Starting Strategy Strategy CE	RTIF:	
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2640.	LOT 10						755'	2640.	/	1526	STOWN	HOUS)
	476 50		20.00'			1			UASO	cate Numb	ED	WARDS 15269

2640.00



OPERATIONS PLAN

ELEVATION: 7178' GL

WELL NAME: Carson #204S

LOCATION: 1035' FSL, 755' FWL, Section 6, T30N, R4W, Rio Arriba County, NM

FIELD: Basin Fruitland Coal

FORMATION TOPS:

San JoseSurfaceNacimiento2028Ojo Alamo3328Kirtland3528Fruitland3798

Total Depth 3978

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:

HOLE SIZE	<u>DEPTH</u>	CSG SIZE	<u>WT.</u>	GRADE
12 1/4"	200'	9 5/8"	32.3#	H-40 – ST&C
8 3/4"	3858'	7"	23#	J-55 – ST&C
6 1/4"	3758- ³⁹⁷⁸	51/2"	(5.5 [±]	J-55 LT 2

TUBING PROGRAM:

3900' 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 490 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. (1102 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

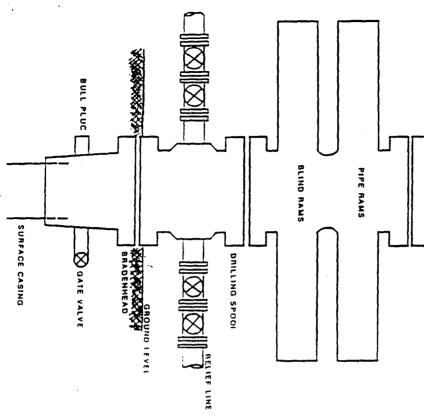
OTHER INFORMATION:

- 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 1000 psi.

Figure

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

FLOW LINE



Series 900 double gale BOP Naied al 3000 psi working pressure

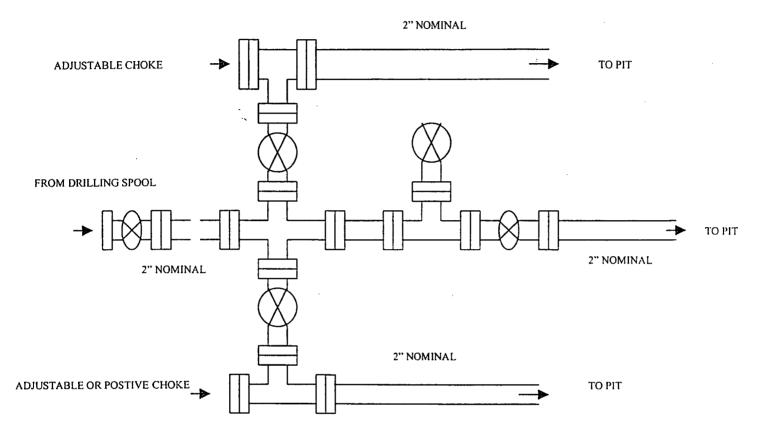
Figure #2

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

Kill Line Blooie Line Ball Valve-Ria Floor Check Valve ⊗equalizin7 Flow Spoollanual ədyc əqipe 210e blind lanua -Stripping lead 4 - 1 1/15" Gate Valves Tubing Read 11" x 7 1/16" 3000 psi 2 9/15" Gate Talves - Double Gate 30? -Double Gate BC2 Blooie Line Relief 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.