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APPLICATION FOR PERMITTO DRILL	LORREEN CALL	. 1	Serial No		
1a. Type of Work X DRILL REEN	AR 200 5		an, Allotee or Tribe Name		
1b. Type of Well Oil Well Gas Well Other	58 7. Unit o	7. Unit or CA Agreement Name and No.			
2. Name of Operator	JA A I	8. Lease Name and Well No.			
Energen Resources Corporation 3a. Address	de) Cars	on 207S VellNo.			
2198 Bloomfield Highway Farmington, New Mexico 4. Location of Well (Report location clearly and in accordance with any Si		3003927580			
At surface 1085' FNL, 1585' FWL	Basi	10. Field and Pool, or Exploratory Basin Fruitland Coal 11. Sec., T., R., M., or Blk. and Survey or Area			
At proposed prod. zone	l l				
14. Distance in miles and direction from nearest town or post office*			12. County or Parish 13. State		
9.5 miles Northeast of Gobern	nador, New Mexico	Rio Ar	riba NM		
Distance from proposed*	16. No. of Acres in lease	17. Spacing Unit	t dedicated to this well		
property or lease line, ft. (Also to nearest drg. unit line, if any)	1213.88		W/2		
18. Distance from proposed location*	19. Proposed Depth	20.BLM/BIA	BLM/BIA Bond No. on file		
to nearest well, drilling, completed, applied for, on this lease, ft.	4069'				
21 Elevations (Show whether DF, KDB, RT, GL, etc.	22. Approximate date work will star	t* 23.E	23. Estimated duration		
7294' GL	June 2004		6 Days		
	24. Attachments				
The following, completed in accordance with the requirements of Onshore O	il 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, SUPO shall be filed with the appropriate Forest Service Office). 	Item 20 above). 5. Operator certification.		ed by an existing bond on file (see plans as may be required by the		
25. Signuature	Name (Printed/Typed)	· · · · · · · · · · · · · · · · · · ·	Date		
Title Thomas by	Doug Thomas		01/06/04		
Drilling & Completion Foreman					
Approved by (\$ignautre)	Name (Printed/Typed)		Date		
tum byok	3/9/05				
Title Office					
Application approval does not warrant or certify that the applicant holds le conduct operations thereon. Conditions of approval, if any, are attached.	gal or equitable title to those rights in	he subject lease	which would entitle the applicant to		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a cri States any false, fictitious or fraudulent statements or representations as to an	ime for any person knowlingly and willfury matter within its jurisdiction.	lly to make to an	y department or agency of the United		
*(Instructions on Reverse)					

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

'API Number

State of New Mexico Energy, Minerals & Natural Resources Department

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

Pool Code

71629

5277.36

Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

Pool Name

BASIN FRUITLAND COAL

AMENDED REPORT

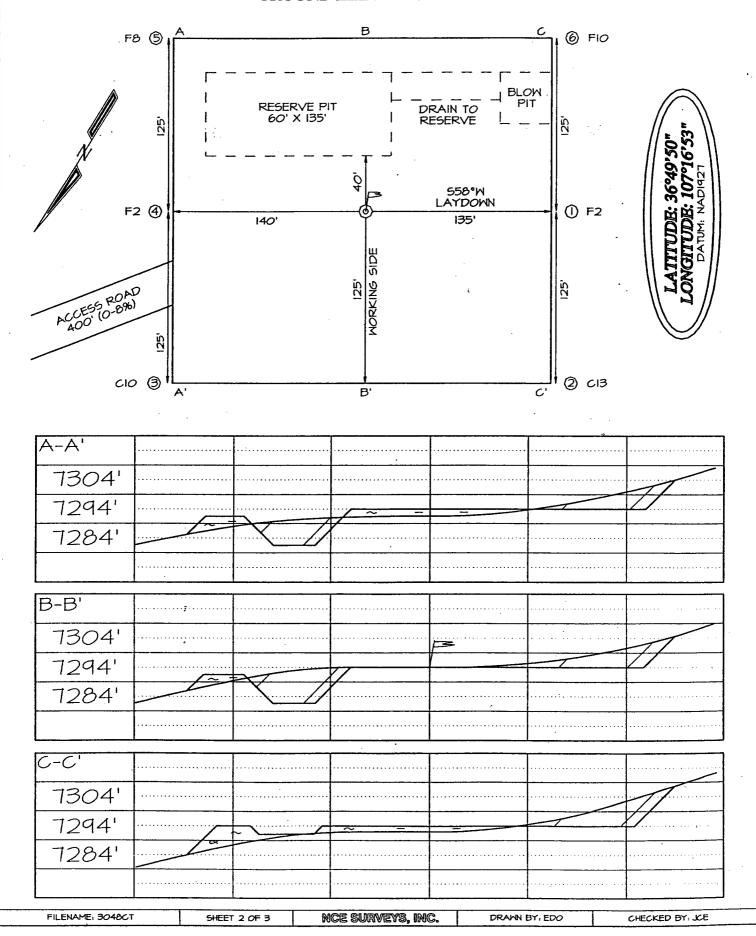
15269

Certificate Number

WELL LOCATION AND ACREAGE DEDICATION PLAT

*Property	Code	⁹ Property Name					"Well Number				
7.118	5	CARSON					207S				
'OGRID	No.	*Operator Name						*Elevation			
16292	828	ENERGEN RESOURCES CORPORATION			1	7294					
								· · · · · · · · · · · · · · · ·			
	T Cartina	T 72	I 0		¹⁰ Surface	LOCATION North/South line					County
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the			et from the	East/Nes		RIO
С	8	30N	4W		1085	NORTH	1	1585	WES	וכ	ARRIBA
		¹¹ E	Bottom	Hole L	ocation I	f Different	Fro	om Surf	ace		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	. North/South line	Fe	et from the	East/Nes	it line	County
¹² Dedicated Acres		L	.!	L	¹⁹ Joint or Infill	¹⁴ Consolidation Code	15 Orde	r No.			
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ENERGEN RESOURCES CORPORATION CARSON #207S 1085' FNL & 1585' FWL, SECTION 8, T30N, R4W, NMPM RIO ARRIBA COUNTY, NEW MEXICO GROUND ELEVATION: 7294'



OPERATIONS PLAN

WELL NAME: Carson #207S

LOCATION: 1085' FNL, 1585' FWL, Section 8, T30N, R4W, Rio Arriba County, NM FIELD: Basin Fruitland Coal ELEVATION: 7294' GL

FORMATION TOPS:

San Jose Surface
Nacimiento 2119
Ojo Alamo 3419
Kirtland 3619
Fruitland 3889

Total Depth 4069

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>	<u>GRADE</u>
12 ¼"	200'	9 5/8"	32.3#	H-40 - ST&C
8 3/4"	3949'	7"	23#	J-55 – ST&C
6 1/4"	3849'- 4069'	5 ½"	15.5#	J-55 – LT&C

TUBING PROGRAM:

4040' 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 520 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. (1128 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.

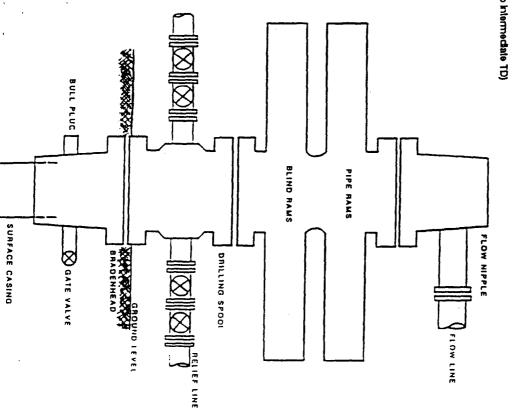
5 ½" liner – NO CEMENT

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 1000 psi.

Figure #1

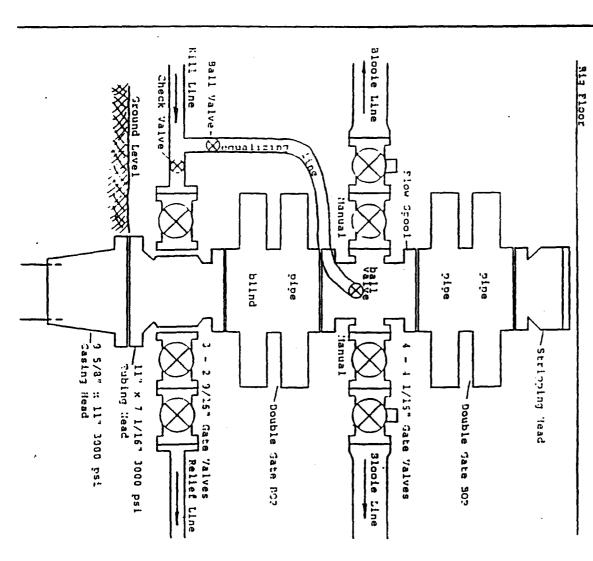
TYPICAL B O.P.E. INSTALLATION FOR A FRUITLAND COAL WELL (to intermediate TD)



Series 900 double gale BOP Raied at 3000 psi working pressure

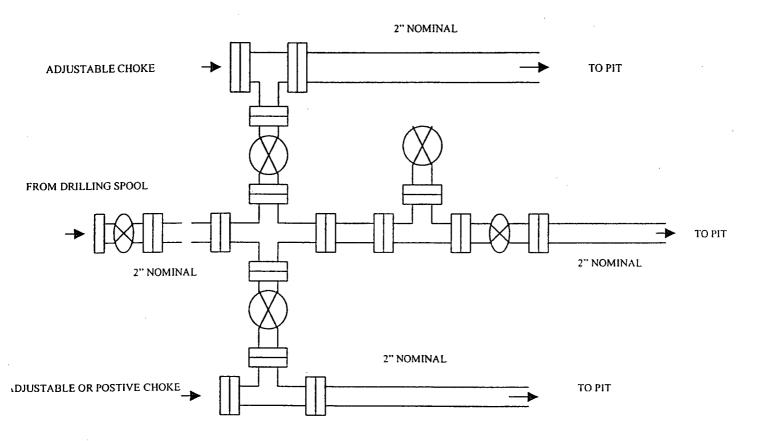
Figure #2

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.