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 REENTER						NMSF_079483 A		
la. Type of Work	Type of Work X DRILL REENTER					6. If Indian, Allotee or Tribe Name		
1b. Type of Well	Oil Well X Gas Well	Other [X Single Zone	Multiple Zon	ne 7. Unit or CA Agreement Name and No.			
2. Name of Operator				,,,,,	8.1	ease Name and Wel	1 No	
Energen Resources	Corporation		· · · · · · · · · · · · · · · · · · ·	the war the contract	sail (4	Carson 200S		
3a. Address			i	No. (include area co		API Well No.	-32	
2198 Bloomfield H	ighway Farmington,	New Mexico 8	7401 (<u>505)325-6800</u>		30039	27589	
	rt location clearly and in acco FNL, 685' FWL	oraance with any Sia.	te equirements)*			Field and Pool, or Ex Basin Fruitla	nd Coal	
At proposed prod. zone						11. Sec., T., R., M., or Blk. and Survey or Area F-Sec.07, T30N, R04W, N.M.P.M		
14. Distance in miles and dire	ection from nearest town or po	ost office*				County or Parish	13. State	
	28 miles	NE of Goberna	dor, NM	<u></u>	Ric	o Arriba	NM	
15. Distance from proposed	*		16.No. of Acre	s in lease	17. Spacing	g Unit dedicated to the	his well	
location to nearest property or lease line, ft. (Also to nearest drg. uni			1	178.30		N 1/2	269.01	
8. Distance from proposed	location*		19. Proposed D	epth	20.BLM/I	BIA Bond No. on fil	e	
to nearest well, drilling, applied for, on this lease			35	42'				
21. Elevations (Show whether	T DF, KDB, RT, GL, etc.		22. Approxima	te date work will sta	rt*	23. Estimated durat	ion	
6782'	,,,,		7,	08/04			6 Days	
The following, completed in	accordance with the requirem		4. Attachments	o. 1, shall be attached	to this for	m:		
	registered surveyor. the location is on National For the appropriate Forest Servi		Item 20 a 5. Oper 6. Such	i to cover the operat bove). ator certification. other site specific in orized officer.		·		
25. Signuature		1	Name (<i>Printed/Ty</i>	ved)		Date		
La Jana	Horres		Doug Thomas				01/22/04	
Title Drilling & Comp								
Approved by (Signature)	101 TOT Ellian	l »	Name (Printed/Ty)	nad)		Date		
Approved by (signalary)	Contie lie		vanik (171meu/19 ₁	veu)		8.	15:05	
Title A	CM		Office					
Application approval does no conduct operations thereon. Conditions of approval, if an		e applicant holds lega	al or equitable tit	e to those rights in	the subject	lease which would e	entitle the applicant to	
	1 and Title 43 U.S.C. Section fraudulent statements or repr				Illy-to-make		r agency of the United	
*(Instructions on Reverse)				18 OU	AUG 2	005		
PMILLING OF EBAT 8:00000 FG PF A "GEABRAL REGUR	TONS ALTHORIZED ARE THE HOLE WITH ATTACHED REMENTS".	**************************************	on is subject to to ral review pursua eal pursuant to 4	111 (0.43 CFH(28905.0	OIGT. 3	DIV.	NMOCD	

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

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

AMENDED REPORT

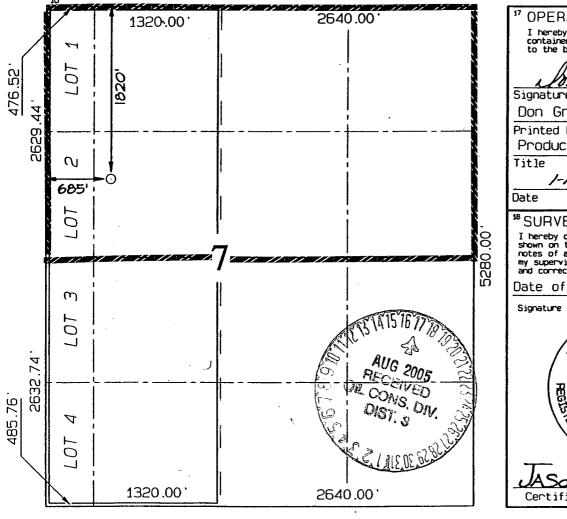
WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number		*Pool Code	³Pool Name		
30-039-	27589	71629	BASIN FRUITLAND COA	L	
*Property Code			*Property Name	Well Number	
21185		CARSON			
'OGRID No.			*Operator Name	Elevation	
162928	ENERGEN RESOURCES CORPORATION 6782				

¹⁰ Surface Location

Cdi 1000 E,000 Ci									
UL or lot no.	Section 7	Township 30N	Range 4W	Lot Idn	Feet from the 1820	North/South line NORTH	Feet from the	East/West line WEST	County RIO ARRIBA
		11 E	ottom	Hole L	ocation I	f Different	From Surf	ace	,
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
² Dedicated Acres 269.0/ N)ュ 218	-30 Acr	es - W	/2	¹³ Joint or Infill	³⁴ Consolidation Code	²⁵ Order No.	<u> </u>	<u> </u>

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





1820' FNL & 685' FWL, SECTION 7, T30N, R4W, NMPM RIO ARRIBA COUNTY, NEW MEXICO **GROUND ELEVATION: 6782'** В 6 C15 C3 (5) RESERVE PIT 60' X 135' 25 S88°E LAYDOWN 140' FI (4) ① C3 135 MORKING SIDE F7 ③ 2 F8 A-A' 6796' 6786' 6776' B-B' 6796' 6786' 6776' C-C' 6796' 6786' 6776' FILENAME: 3047FT NCE SURVEYS, INC. SHEET 2 OF 3 DRAWN BY: EDO CHECKED BY: JCE

ENERGEN RESOURCES CORPORATION CARSON #200S

OPERATIONS PLAN

WELL NAME: Carson #200S

LOCATION: 1820' FNL, 685' FWL, Section 7, T30N, R4W, Rio Arriba County, NM

FIELD: Basin Fruitland Coal

ELEVATION: 6782' GL

FORMATION TOPS:

San Jose	Surface
Nacimiento	1652
Ojo Alamo	2902
Kirtland	3102
Fruitland	3387

Total Depth

3542

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 1/4"	200'	9 5/8"	32.3#	H-40-ST&C
8 3/4"	3422'	7"	23#	J-55 – ST&C
6 1/4"	3322'- 3524'	5 1/2"	15.5#	J-55 – LT&C

TUBING PROGRAM:

3520'

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 445 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. (977 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.

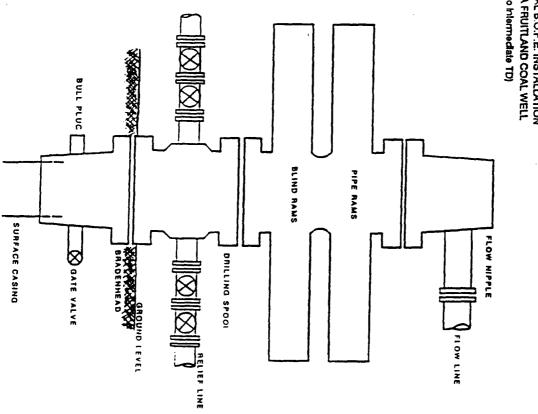
5 1/2" liner - NO CEMENT

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)



Series 900 double gate BOP Nated at 3000 psi working pressure

Figure #2

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

