UNITED STATES

DEPARTMENT OF THE INTERIOR

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

SF-079090

	FORM APPROVED					
	OMB N	O. 10	04-0136	5		
	Expires:					
5. LEAS	E DESIGNAT	ION ANI) SERIA	L NO.		

	BUREAU OF LAND MANAGEMENT					6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
APPLIC	CATION FOR I	PERMIT TO	O DRII	L OR DEEP	PEN		
APPLICATION FOR PERMIT TO DRILL OR DEEPEN ORILL X DEEPEN					7. UNIT AGREEMENT NAME San Juan 32-5 Unit		
TYPE OF WELL OIL GA	AS X		SIN		TIPLE	8. FARM OR LEASE NAME,	
WELL WE	OTHER			ONE ZONI	E	San Juan 32-5 l	Jnit 110
NERGEN RES <u>ources</u> C	CORPORATION					9. API WELL NO.	
ADDRESS AND TELEPHONE NO.					30-039-26721		
198 Bloomfield Hig			equirements	*)	en e	lo. FIELD AND POOL, OR W Basin Fruitland	
At surface	location clearly and in accord		. ,				
55' FSL, 65' FEL At proposed prod. zone						11. SEC., T., R., M., OR BLK AND SURVEY OR AREA	
			· · · · · · · · · · · · · · · · · · ·		- 4	P Sec. 22, T32N,	R6W, N.M.P.
DISTANCE IN MILES AND DIR 7 miles North of (Rio Arriba	NM NM
DISTANCE FROM PROPOSED* LOCATION TO NEAREST			16. NO. OI	ACRES IN LEASE		F ACRES ASSIGNED S WELL	/
PROPERTY OR LEASE LINE, F	FT. ne. if any) 65'		480		<u> </u>	320 5/2	
DISTANCE FROM PROPOSED	LOCATION*		17. 1101 0000 201 111			ARY OR CABLE TOOLS	
to nearest well, drilling, completed, or applied for, on this lease, ft. 15			3057	,	Rot	22. APPROX. DATE WOR	K WILL START*
ELEVATIONS (Show whether 322'GL	r DF,RT, GR, etc.)					22	
322 GL				CONTROL PROCESSIO			
				MENTING PROGRAM		OUANTITY OF OTM	LENT
12-1/4"	GRADE, SIZE OF CASING 9-5/8"	WEIGHT PER FO	OT	SETTING DEPTH 200'	130 c	cu. ft., Circ to surface	
8-3/4"	7"	20#	-	2902'		cu. ft., Circ to surface	
6-1/4"				3057'		~	J
6-1/4" Selective perf This gas is de A Williams Fie	THIS IS AN EX	ine ROW Plat		3057' ruitland Coal.		デ ら さ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	÷ F.J. C.C. GYM 100.6
Selective perf This gas is de A Williams Fie This achies is su procedural revie	THIS IS AN EXPENSION TO ASSESS OF A 3160	PEDITED APD.	is atta	3057' ruitland Coal. ached.	An email of the second of the	SAME OF THE SERVED OF THE SERV	# 10 00 FH 3: 0 0
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Selective perf This gas is de A Williams Fie Thus action to su procedural revie and appeal purs N ABOVE SPACE DESCRIBE eepen directionally, give pertir (This space for Federal or PERMIT NO.	THIS IS AN EXTENDED TO THE STATE OF THE STAT	PEDITED APD. TO STAGE 1.3 If proposal is to de ions and measured an tholds legal or equitable to the stage of the stage	title to those ri	3057' ruitland Coal. ached. lata on present productival depths. Give blowout	etion Fore	posed new productive zone. If arn, if any. DATE 3/20/	proposal is to drill

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to fictitious or fraudulent statements or representations as to any matter within its jurisdiction. MACOUTE

State of New Mexico Form C-102 PO Box 1980, Hobbs, NM 88241-1950 Revised February 21, 1994 Energy, Minerals & Natural Resources Department Instructions on back District II Submit to Appropriate District Office PO Drawer DD, Artesia, NM 88211-0719 OIL CONSERVATION DIVISION State Lease - 4 Copies Fee Lease - 3 Copies PO Box 2088 1000 Rio Brazos Rd., Aztec, NM 87410 Santa Fe, NM 87504-2088 AMENDED REPORT District IV PO Box 2088, Santa Fe, NM 87504-2086 2991 MAR 22 PM 3: 2 WELL LOCATION AND ACREAGE DEDICATION PLAT 'API Number Pool Cade Pool Name 30-039-2672 71629 Basin Fruitland Coal Property Code Property Name "Well Number 21996 SAN JUAN 32-5 UNIT 110 'CGRID No. *Operator Name Elevation 162928 ENERGEN RESOURCES CORPORATION 6322 ¹⁰ Surface Location UL or lot no. Section Township Range Lat Ion Feet from the North/South line Feet from the East/West line County RIC Р **MSE** 22 6W 155 SOUTH 65 EAST ARFIBA ¹¹ Bottom Hole Location If Different From Sunface Feet from the Township UL or lot no Section Pacce Feet from the North/South line Count, 12 Dedicated Acres ¹³Joins on Infill 14 Consolidation Code ¹⁵ Ondan No 320 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 2691.48 2519.54 I hereby centify that the information contained herein is thus and complete to the best of my knowledge and belief Signature Gary Br Printed Name\ Production Superintendant Title 20 Date "SURVEYOR CERTIFICATION I hereby centify that the well location shown on this blat was plotted from field notes of actual surveys made by re on under my supervision, and that the same is thus and correct to the best of my belief. SULVE C. EDWARD OF METIC SEPTEMBER 12, 2000 2599 6857 65' POPESSION 6857 1551 2683.561 2681.581

ENERGEN RESOURCES CORPORATION SAN JUAN 32-5 UNIT #110 155' FSL & 65' FEL, SECTION 22, T32N, R6W, N.M.P.M. RIO ARRIBA COUNTY, NEW MEXICO (24 8 6700 36 35

OPERATIONS PLAN

WELL NAME: San Juan 32-5 Unit 110

<u>LOCATION</u>: 155' FSL, 65' FEL, Section 22, T32N, R6W, Rio Arriba County, NM <u>FIELD</u>: Basin Fruitland Coal <u>ELEVATION</u>: 6322' GL

FORMATION TOPS:

Surface San Jose
Nacimiento 982
Ojo Alamo 2262
Kirtland 2377
Fruitland 2742

Total Depth 3057

LOGGING PROGRAM:

Open Hole Logs:

Surface to intermediate: None

Inter TD to total depth: Temp/HRI/CNT, LDT/GR

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	$\underline{\mathrm{WT.}}$	<u>GRADE</u>
12 1/4"	200'	9 5/8"	36#	J-55 – ST&C
8 3/4"	2902'	7"	20#	J-55 – ST&C
6 1/4"	3057'			

TUBING PROGRAM:

3000' 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 275 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. (655 cu. ft. of slurry, 50% 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.

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.