m 3160-3 UNITED STATES FORM APPROVED	с. С. ф.						·		
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Drilling Engineer proved by (Signautre) Name (Printed/Typed) Date 2/17/06 te Office plication 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 duct operations thereon. nditions of approval, if any, are attached. le 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 agener of The Trifter ites any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Instructions on page 2) DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".	Allers	if					1/10/06		
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<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 1301 W. Grand Avenue, Artesia, NM 88210				OIL CONSERVATION DIVISION					Submit to A	Appropri	Form C-102 rised June 10, 2003 riate District Office te Lease - 4 Copies	
<u>District</u> 1000 Rie		d., Aztec, NN	M 87410		1220 South St. Francis Dr.						Fe	e Lease - 3 Copies
<u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 9 7505			15	Santa Fe, NM 87505 JAN 11 AM 11 01 AMENDED REPOR							ENDED REPORT	
					L LOCAT	TION AND AC	REAGE			·		;
32)-04	API Number $5 \cdot 30$, _ ~	Pool Con 71620	7 /	Ba	sington	AHand			-
3	Property C	Code			⁵ Property Name FEDERAL 29-10-1						•	Well Number 2S -
<u> </u>		No. AA				⁸ Operat	tor Name	· ·				'Elevation
16	<u>id Tc</u>	101			ENEKG	EN RESOURO	CES CO ce Locati		ION			5,720'
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		Cention	T		7	n Hole Location				East/Wet		
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	BRAS BLM 1	<u> </u>		FOUND 3-14 BRASS CAP BLM 1967		LOT 19		FOUN	D 3-1/4" SS CAP M 1950	L	APOFE .	ESSIGNED STATE
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		•		S 89° 53′ 5	3"W	5.272.74'(R)				Certificate	Number	

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Submit 3 Copies To Appropriate District Office	State of Energy, Minerals a	New Mex and Natura					'orm C-1 May 27, 2	
District I 1625 N. French Dr., Hobbs, NM 87240				WELL AI	PINO20-(245.3		
District II 1301 W. Grand Ave., Artesia, NM 88210	OIL CONSER			5. Indicat	e Type of Le		20	
District III 1000 Rio Brazos Rd., Aztec, NM 87410	I 1220 South St. Francis Dr.				ATE			
District IV 1220 S. St. Francis Dr., Santa Fe, NM 8750				· · · · · · · · · · · · · · · · · · ·	Dil & Gas Le			
SUNDRY NOTI	CES AND REPORTS	ON WELL	S	7 Lease	Name or Uni	it Agreem	ent Name	
DO NOT USE THIS FORM FOR PROF DIFFERENT RESERVOIR. USE "APPL PROPOSALS.)	POSALS TO DRILL OR TO	DEEPEN OF	R PLUG BACK TO	A 1	29-10-1			
1. Type of Well:				8. Well N	lumber			
Oil Well Gas Well X	Other				# 28			
 Name of Operator Energen Resources Corporation 	ation			9. OGRIE	Number (162928	,		
3. Address of Operator				10. Pool	name or Wild			
2198 Bloomfield Highway,	Farmington, NM 87	7401			cuitland Co			
. Well Location								
Unit Letter:	785feet from the	e <u>Sout</u>	h line and _	1800	_ feet from th	ne <u>Ea</u>	st	
Section 01	Township	29N R	ange 10w	NMPM	(County	San Jua	
	11. Elevation (Show			R, etc.)			at a star	
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Pit or Below-grade Tank Application X			- 000 i				• •	
Pit type Drill Denth to Croundwate			votor woll <1000 '	Distance from n	earest surface v	water <u>>25</u>	0'	
tit Liner Thickness: <u>12</u> mil	Below-Grade Taul	k: Volume	bbls; Constr Nature of Noti	uction Material _	or Other D			
Pit Liner Thickness: <u>12</u> mill 12. Check NOTICE OF INT ERFORM REMEDIAL WORK EMPORARILY ABANDON	Appropriate Box to ENTION TO: PLUG AND ABANDO CHANGE PLANS	k: Volume Indicate P DN F	<u>bbls; Constr</u> Nature of Noti SI REMEDIAL WOR COMMENCE DR	ice, Report, d UBSEQUEI RK	or Other D NT REPO		G CASING	
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Operations Plan December 21, 2005

Federal 29-10-1 #2S

General Information

Location785' fsl, 1800' fel
swse S1, T29N, R10W
San Juan County, New MexicoElevations5720' GL
2417' (MD)
Formation ObjectiveFormation ObjectiveBasin Fruitland Coal

Formation Tops

Nacimiento	Surface
Ojo Alamo Ss	1017'
Kirtland Sh	1157'
Fruitland Fm	1877'
Top Coal	2032'
Bottom Coal	2217'
Pictured Cliffs Ss	2217'
Total Depth	2417'

Drilling

The 12 ¹/₄" wellbore will be drilled with a fresh water mud system.

The 7 7/8" wellbore will be drilled with a low solids fresh water/polymer mud system. Weighting materials will be drill cuttings and if needed barite. Mud density is expected to range from 8.3 ppg to 8.9 ppg. Blowout Control Specifications:

A 2000 psi minimum double ram or annulus BOP stack (figure 1) will be used following nipple up of casing head. A 2" nominal, 2000 psi minimum choke manifold will also be used. An upper Kelly Cock valve handle and drill string valve should be available to fit each drill string and be available on the rig floor during drilling operations.

Logging Program:

Open hole logs: Induction/Gamma Ray and Density Logs Coring: None

Surveys: Surface and/or every 500 ft to TD.

Tubulars

String Surface Production	Interval 0'-300' 300'-2417'	Wellbore 12 ¼" 7 7/8"	Casing 8 5/8" 5 ½"	Csg Wt 24.0 ppf 15.5 ppf	; Grade J-55 ST&C J-55 LT&C
Tubing	0'-2350'		2 3/8"	4.7 ppf	J-55

Casing Equipment:

Casing, Tubing, & Casing Equipment:

Surface Casing: Depending on wellbore conditions, a Texas Pattern Guide Shoe on bottom. Casing centralization with standard bow spring centralizers to achieve optimal standoff.

Production Casing: Depending on wellbore conditions, a Cement nose guide shoe with self fill insert float collar on top of bottom joint and casing centralization with standard bow spring centralizers to optimize standoff. Two turbolating centralizers at the base of the Ojo Alamo are recommended.

Wellhead

8 5/8" 2000 x 5 1/2" Larkin casing head. 5 1/2" 2000 x 2" tubing head.

Cementing

Surface Casing: 225 sks Std (class B) with 2.0 % CaCl₂ and ¼ #/sk Flocele (15.6 ppg, 1.18 ft³/sk 266 ft³ of slurry, 100% excess to circulate to surface). WOC 12 hours. Pressure test surface casing to 1000 psi for 30 min.

Production Casing: Before cementing, circulate hole at least 1 ½ hole volumes of mud and reduce funnel viscosity to minimum to aide in hole cleanout. Depending on wellbore conditions, cement may consist of 350 sks 65/35 with 6.0 % Bentonite, 2.0 % CaCl₂, 10 #/sk Gilsonite, and ½ #/sk Flocele (12.3 ppg, 1.96 ft³/sk) and a tail of 145 sks of Standard (Class B) cement with 5.0 #/sk Gilsonite, and ¼ #/sk Flocele (15.2ppg, 1.24 ft³/sk). (865 ft³ of slurry, 100 % excess to circulate to surface).

Other Information

1) This well will be cased and the Basin Fruitland Coal fracture stimulated.

2) If lost circulation is encountered, sufficient LCM will be added to the mud system to maintain well control. The production string may need to be cemented in multiple stages with a slurry design deviated from that listed above.

3) If high reservoir pressures or water flows are encountered slurry design may need to be deviated to from those listed above to satisfy wellbore and formation conditions.

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- 4) No abnormal temperatures or pressures are anticipated.
- 5) This gas is dedicated.

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Energen Resources Corporation

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Typical BOP Configuration for Gas Drilling



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Typical 2000 psi Choke Manifold Configuration

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Choke manifold installed from surface to TD

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