Form 3160-3 (April 2004)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB NO. 1004-0137 Expires March 31, 2007

APPLICATION FOR PERMIT TO DRILL OR REENTER				5. Lease Serial No.		
				NM 04202		
Type of Work			6. If Indian, All	6. If Indian, Allotee or Tribe Name		
1b. Type of Well Oil Well X Gas Well Oth		Multiple Zone	7. Unit or CA	7. Unit or CA Agreement Name and No.		
2. Name of Operator	NEVERTOR 070 FARAGORES		8. Lease Name	and Well No.		
Energen Resources Corporation			Federal	Federal 28-9-9 #1S		
3a. Address	3b. Phone No. (inc	·	9. API Well No).		
2198 Bloomfield Highway Farmington, New M		<u> 25-6800 </u>	<u> 50-04</u>	15-32822		
4. Location of Well (Report location clearly and in accordance with any State equirements)*			10. Field and Po	10. Field and Pool, or Exploratory		
At surface 160' FSL, 1935' FEL				Basin Fruitland Coal		
At proposed prod. zone				11. Sec., T., R., M., or Blk. and Survey or Area		
14. Distance in miles and direction from nearest town or post office*				O - Sec. 09, T28N, R09W NMPM 12. County or Parish 13. State		
•		-				
Approximately 2.5 miles			San Juan	NM		
15. Distance from proposed* location to nearest	16. No. of Acres in leas	e 17	7. Spacing Unit dedic	ated to this well		
property or lease line, ft. (Also to nearest drg. unit line, if any)	1198.2	8	271.0% 	utir 1/2 All Sec.		
	10.0					
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20	0.BLM/BIA Bond 1	No. on file		
1800'	3130'					
21. Elevations (Show whether DF, KDB, RT, GL, etc.	22. Approximate date v	22. Approximate date work will start*		23. Estimated duration		
6623' GL	04/25	04/25/05		14 days		
	24. Attachments					
The following, completed in accordance with the requirements of Or	shore Oil and Gas Order No. 1, shall	ll be attached to	this form:			
1. Well plat certified by a registered surveyor.	4. Bond to cove	4. Bond to cover the operations unless covered by an existing bond on file (see				
2. A Drilling Plan	Item 20 abov	,				
3. A Surface Use Plan (if the location is on National Forest System						
SUPO shall be filed with the appropriate Forest Service Office).	6. Such other si authorized of	_	mation and/or plans	as may be required by the		
25. Signuature	Name (Printed/Typed)			Date		
Volamont	Nathan Smith			01/10/05		
Title						
Drilling Engineer						
Approved by (Signautre)	Name (Printed/Typed)	Name (Printed/Typed)		Date 9/7/05		
Title Achieve Id Manager - Mu	Office					
Application approval does not warrant or certify that the applicant conduct operations thereon. Conditions of approval, if any, are attached.	holds legal or equitable title to tho	se rights in the	subject lease which	would entitle the applicant to		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, mak States any false, fictitious or fraudulent statements or representations	e it a crime for any person knowling as to any matter within its jurisdicti	gly and willfully	to make to any depa	rtment or agency of the United		

*(Instructions on page 2)

HOLD GION POR NSL

NMOCD

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED

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

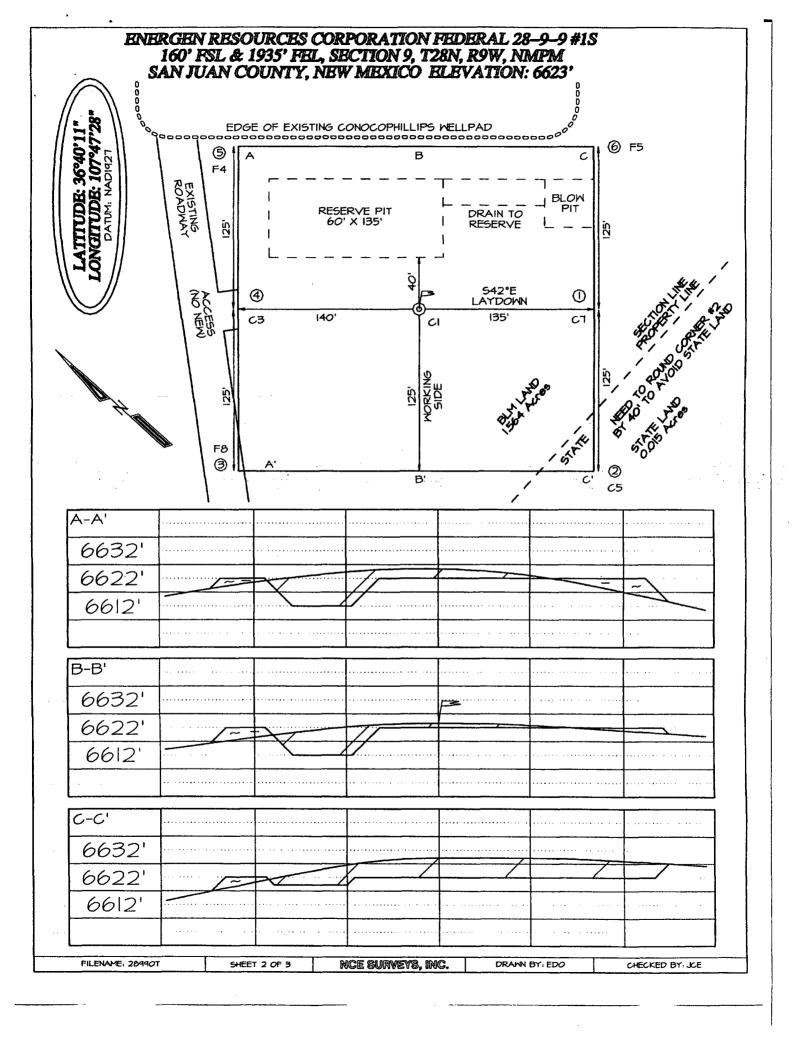
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

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

AMENDED REPORT

Form C-102

WELL LOCATION AND ACREAGE DEDICATION PLAT *Pool Name URIV API Number *Pool Code 71629 BASIN FRUITLAND COAL Well Number *Property Code Property Name 34192 FEDERAL 28-9-9 1Š OGRID No. *Elevation *Operator Name 162928 ENERGEN RESOURCES CORPORATION 6623 ¹⁰ Surface Location UL or lot no. Section Township Lot Idn Feet from the North/South line Feet from the East/West line County 0 9 28N 9W SOUTH 160 1935 SAN JUAN **EAST** 11 Bottom Hole Location If Different From Surface UL or lot no. Sect ior Feet from the East/Nest line County ¹⁵ Onder No. ¹² Dedicated Acres Doint or Infill ¹⁴ Consolidation Code 272.08 Acres - (Entire Section) 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 I hereby centify that the information contained herein is true and complete to the best of my knowledge and belief **Signature** Doug Thomas Printed Name 5188.92 Drilling Superintendant Title 32 LOT LOT LOT LOT 925 Date 4 3 *SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. 320.00 8 Survey Date: SEPTEMBER 14, 2004 Signature and Seal of Professional Surveyor C. EDWARDS 1935 MEXIC 5266.80 AGESSION. <u>DWAR</u>DS Certificate Number 15269



Operations Plan December 30, 2004

Federal 28-9-9 #1S

General Information

Location 0160' fns, 1935' fel

swse S09, T28N, R09W

San Juan County, New Mexico

Elevations 6623' GL

Total Depth 3130' (MD)

Formation Objective Basin Fruitland Coal

Formation Tops

San Jose		Surface
Nacimiento		715'
Ojo Alamo Ss		1865
Kirtland Sh		2010'
Fruitland Fm		 2610'
Top Coal	 	2705'
Bottom Coal		2930'
Pictured Cliffs Ss		 .2930'
Total Depth		3130'

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

Natural Gauges: None

Tubulars

Casing, Tubing, & Casing Equipment:

String	Interval	Wellbore	Casing	Csg Wt	Grade
Surface	0'-300'	12 ¼"	8 5/8"	24.0 ppf	J-55 ST&C
Production	300'-3130'	7 7/8"	5 ½"	15.5 ppf	J-55 LT&C
Tubing	0'-3100'		2 3/8"	4.7 ppf	J-55

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 ½" Larkin casing head. 5 ½" 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 247 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 465 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). (1084.9 ft³ of slurry, 100 % excess to circulate to surface).

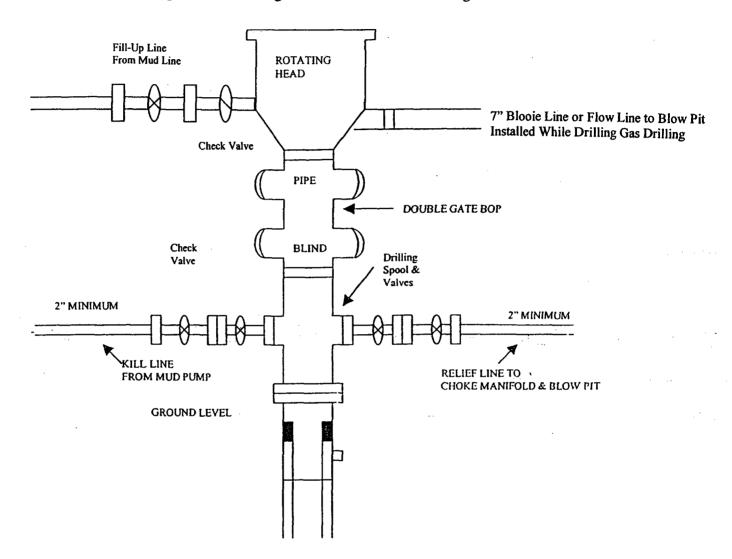
Pump 30 sks of flyash scavenger spacer consisting of 15.0 % Benonite and 0.15 % HR-5 ahead of cement

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

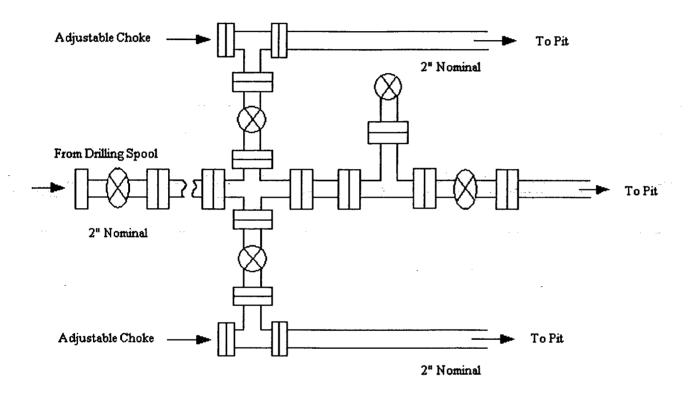
ENERGEN RESOURCES CORPORATION

Typical BOP Configuration for Gas Well Drilling



Energen Resources Corporation

Typical 2000 psi Choke Manifold Configuration



Choke manifold installed from surface to TD