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

1. Type of Work DRILL REENTER 6. If Indian, Allotec or Tribe Name 10. Type of Well OB Well Gas Well Other Single Zone Multiple Zone 7. Unit or CA Agreement Name and No. NAM M To St. 76 1. St. 76	APPLICATION FOR PERMIT TO DRILL	5. Lease Serial	- 0.101 A	
2. Name of Operator Bhorvest Resources Corporation 3a. Address 3b. Phone No. (include area code) 3a. Address 3b. Phone No. (include area code) 3c. Phone Phone Include Phone Phon	la. Type of Work X DRILL REENTI			
2. Name of Operator Shearcages Resources Corporation 3a. Address 2196 Bloomfield Hichway Farminerton, New Mescico 87401 A Location of Well (Report location clearly and in accordance with any State equirements)* A Location of Well (Report location clearly and in accordance with any State equirements)* A Location of Well (Report location clearly and in accordance with any State equirements)* Approximate 1970 fml, 660 fml Approximate 1970 fml Approximate	1b. Type of Well Oil Well Gas Well Other	Single Zone Multiple Zone	7. Unit or CA A	Agreement Name and No.
38. Address 2198 Bloomfield Hichway Farmington, New Mexico 87401 4. Location of Well (Report location clearly and in accordance with any State equirements)* 4. Location of Well (Report location clearly and in accordance with any State equirements)* 4. Location of Well (Report location clearly and in accordance with any State equirements)* 4. Location of Well (Report location clearly and in accordance with any State equirements)* 4. Location of Well (Report location clearly and in accordance with any State equirements)* 4. Location of Well (Report location clearly and in accordance with any State equirements)* 4. Location of Well (Report location clearly and in accordance with any State equirements)* 4. Location of Well (Report location clearly and in accordance with any State equirements)* 4. Destance in miles and direction from nearest town or post office* Approximate location to nearest location to nea	•			
2196 Bloomfield Highway Farmington, New Mexico 8740 4. Location of Well (Report location clearly and in accordance with any State equirements)* 10. Field and Pool, or Exploratory 11. Sec., T., R., M., or Bik. and Survey or 12. Distance in miles and direction from nearest town or post office* 12. Country or Parish 13. State Approximately 2.3 miles north east of Bloomfield 15. Distance from proposed* location to nearest property or lease line, fl. (Also to nearest dig., unit line, if any) 16. No. of Acres in lease location to nearest property or lease line, fl. (Also to nearest dig., unit line, if any) 19. Proposed Depth 10. Blum/BIA Bond No. on file 19. Proposed Depth 20. Blum/BIA Bond No. on file 21. Elevations (Show whether DF, KDB, RT, GL, etc. 22. Approximate date work will start* 23. Estimated duration 24. Attachments 24. Attachments 25. Signuature Name (Printed/Typed) Name (Printed/Typed) Date Drilling Engineer Approved by (Signautre) Name (Printed/Typed) Date Office Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entite, the application condition operations approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entite, the application condition operations approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entite, the application condition operations approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entite, the application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entite, the application application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entite, the		3b. Phone No. (include area cod		
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Approved prod. zone E S11, T29N, R11W H. Distance in miles and direction from nearest town or post office* 12. County or Parish 13. State Approved prod. 20 15. Distance from proposed 15. Distance from proposed 16. No. of Acres in lease 16. No. of Acres in lease 17. Spacing Unit dedicated to this well	1970' fnl, 660' fwl			
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Title 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 agency of the U States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.		y matter within its jurisdiction.		型型が
The Dead of Change in Status to Lloyd 1	* (Lagrandina dh page 3)		· ct	util to I loud A HI
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District I PO Box 1980. Hobbs, NM 88241-1980 State of New Mexico Energy, Minerals & Natural Resources Department Form C-102 Revised February 21, 1994 Instructions on back

District II PO Drawer DD, Artesia, NM 88211-0719

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

OIL CONSERVATION DIVISION
PO Box 2088 nrt 24 67 8
Santa Fe, NM 87504-2088

TAMENDED REPORT

District IV PO Box 2088, Santa Fe, NM 87504-2088

RECEIVED 070 FARMIMOTOR IM

WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number 'Pool Code		³Pool Name		
30-045-3338	71629	BASIN FRUITLAND CO	DAL	
'Property Code	°P	Property Name		
91322		LLOYD A		
'OGRID No.	* O	*Operator Name		
162928	ENERGEN RES	ENERGEN RESOURCES CORPORATION		

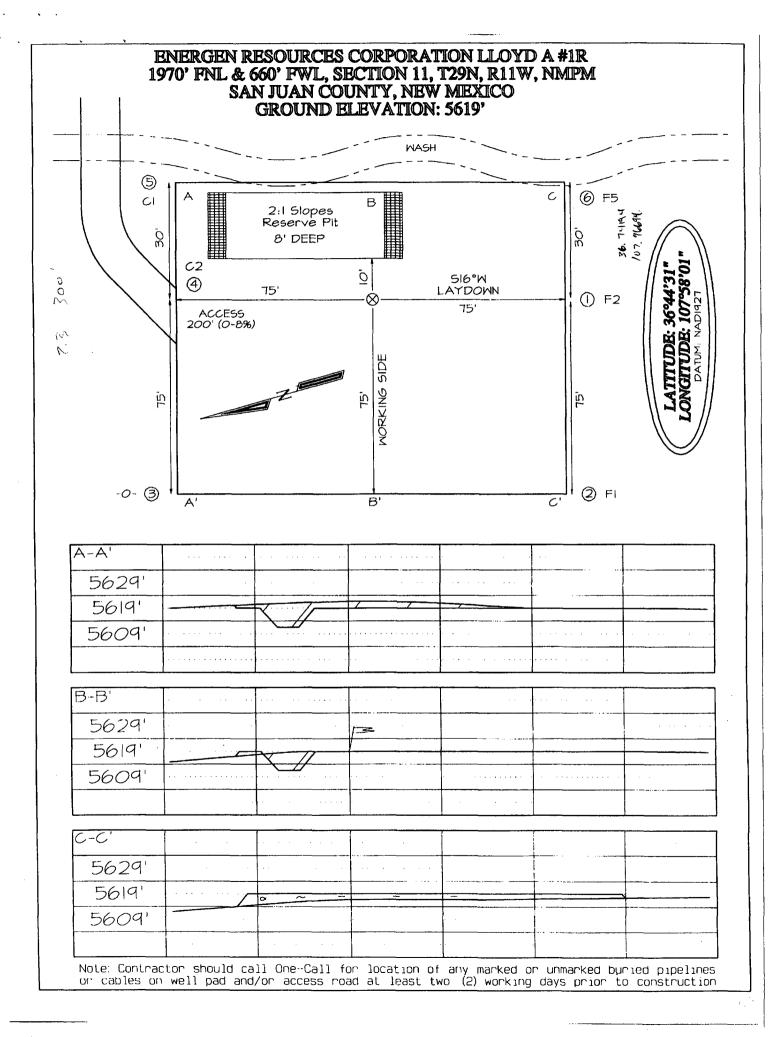
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	T	F 84 1	Country
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UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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	<u> </u>	<u> </u>	<u></u>						
¹² Dedicated Acres					¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.		
	320	.0 Acres	3 – (N,	/2)					
				•			í		

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

16	5309.70		17 OPERAIOR CERTIFICATION I hereby certify that the information contained herein is true and complete
			to the best of my knowledge and belief
1019			Signature
<u> </u>			Noften Suith Printed Name
		,	Drilling Engineer Title 10/21/05
660'			10/11/05 Date
			18 SURVEYOR CERTIFICATION
5280.00	11	280.00	I hereby certify that the well location shown on this plat was plotted from field index of actual surveys made by me ur under my supervision, and that the same is true and correct to the best of my belief
l iŭ			Date of Survey: MARCH 1, 2005
	,		Signature and Seal of Professional Surveyor
			SECH C. EDWARD OF SECH MEXICO
			15269 g
			AD-ESSIONAL.
	5300.46	1 1 1	UASON C. EDWARDS
	3300.70	<u> </u>	Centificate Number 15269 / /4

Submit 3 Copies To Appropriate District Office	State of New M			FOIII C-103
District I	Energy, Minerals and Natu	irai Resources	WELL API NO	May 27, 2004
1625 N. French Dr., Hobbs, NM 87240 District II	OIL CONSERVATIO	N DIVISION	30-	045-33388
1301 W. Grand Ave., Artesia, NM 88210 District III	5. Indicate Type of Lease			
1000 Rio Brazos Rd., Aztec, NM 87410	STATE FEE			
District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505		:	6. State Oil & Gas I	
	S AND REPORTS ON WE			Init Agreement Name:
(DO NOT USE THIS FORM FOR PROPOSITION OF THE PROPOSALS.)	SALS TO DRILL OR TO DEEPEN ATION FOR PERMIT" (FORM C-10	OR PLUG BACK TO A 01) FOR SUCH	Lloyd A	
1. Type of Well:			8. Well Number	
Oil Well Gas Well X	Other		1R	
2. Name of Operator	·		9. OGRID Number 1629	20
Energen Resources Corporation 3. Address of Operator	Lon		10. Pool name or W	
2198 Bloomfield Highway Far	aminaton, NM 87401		Basin Fruitland	
4. Well Location				
Unit Letter E::	1970 feet from the No	orth line and	660 feet from	theline
Section 11	Township 29N	Range 11W	NMPM	County San Juan
	11. Elevation (Show whether			Commence of the second
		19' GL		
Pit or Below-grade Tank Application 🗴		1000		.050.
Pit type Drill Depth to Groundwater				e water >250'
Pit Liner Thickness: mil	Below-Grade Tank: Volume	bbls; Construction	on Material	
12. Check A	ppropriate Box to Indicate	e ₁ Nature of Notice,	Report, or Other	Data
NOTICE OF INTE		1	SEQUENT REP	
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK		ALTERING CASING
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRILLI	NG OPNS. 🔲	PLUG AND ABANDONMENT
PULL OR ALTER CASING	MULTIPLE COMPLETION	CASING TEST AND CEMENT JOB		, in the same of t
OTHER: Build drilling pit	X	OTHER:		
13. Describe proposed or completed of starting any proposed work). or recompletion.		_	-	_
Energen Resources plans to issued on November 1, 2004 accordance with BIM and "O	. Energen anticipates th	he submittal of a C		
•				
I hereby certify that the information abgrade tank has been/will be tongsyucted or cl	ove is true and complete to the	e best of my knowledge	and belief. I further c	ertify that any pit or below-
SIGNATURE NAME S	Z Tr	•	_	DATE10/21/05
Type or print name Nathan Smith	E-	-mail address:	Teleph	one No.
For State Use Only	100	SEPUTY ON 2 CAS	IMERICA	eren er
APPROVED BY	1/h/ TI	TLE	HONELIDE, DIST.	ATEDECU & AND
Conditions of Approval, if any:	// / / / / / / / / / / / / / / / / / /		D	



Operations Plan

October 21, 2005

Lloyd A #1R

General Information

Location 1970' fnl, 660' fwl

swnw S11, T29N, R11W

San Juan County, New Mexico

Elevations 5619' GL Total Depth 2106' (MD)

Formation Objective Basin Fruitland Coal

Formation Tops

Nacimeinto	Surface
Ojo Alamo Ss	591'
Kirtland Sh	736'
Fruitland Fm	1556'
Top Coal	1731'
Bottom Coal	1906'
Pictured Cliffs Ss	1921'
Total Depth	2106'

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: Surface and/or every 500' to TD

Tubulars

Casing, Tubing, & Casing Equipment:

String Surface	Interval 0'-200'	Wellbore 12 1/4"	Casing 8 5/8"	Csg Wt 24.0 ppf	Grade J-55 ST&C
Production	200'-2106'	7 7/8"	5 ½"	15.5 ppf	J-55 LT&C
Tubing	0'-2050'		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: 150 sks Std (class B) with 2.0 % CaCl₂ and ¼ #/sk Flocele (15.6 ppg, 1.18 ft³/sk 177 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 300 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 ½ #/sk Flocele (15.2ppg, 1.24 ft³/sk). (768 ft³ of slurry, 100 % excess to circulate to surface).

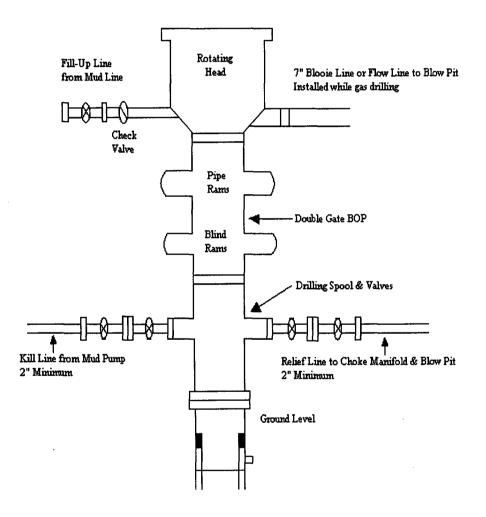
Pump 30 sks of flyash scavenger spacer consisting of 15.0 % Benonite and 0.15 % HR-5 ahead of cement

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.

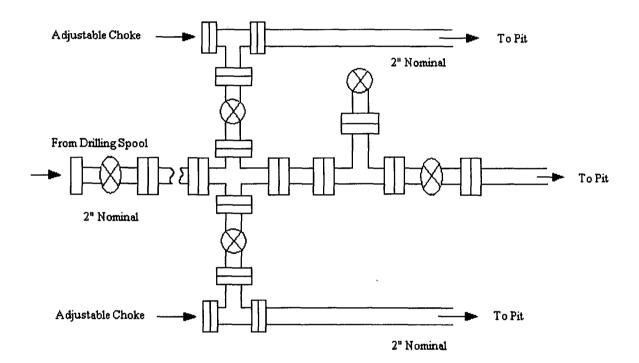
Energen Resources Corporation

Typical BOP Configuration for Gas Drilling



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Typical 2000 psi Choke Manifold Configuration



Choke manifold installed from surface to TD