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

NMOCD

APPLICATION FOR PERMIT TO DRI		5. Lease Serial No.		
		NM 0607		
1a. Type of Work	NTER	·	llotee or Tribe Name	
1b. Type of Well Grow Well	2005 <u>S</u> EP 13 F	1 4 7 7 7 7	Agreement Name and No.	
Oil Well X Gas Well Other	Single Zone Multiple Zon	*	Agreement Name and No.	
2. Name of Operator	RECEIV	8. Lease Name	and Well No	
Energen Resources Corporation	O70 FARMING	0.75 0.8b EEEE	c C #200S	
3a. Address	3b. Phone No. (include area co			
2198 Bloomfield Highway Farmington, New Mexic	o 87401 (505) 325–6800	30-00	K-32824	
4. Location of Well (Report location clearly and in accordance with any	State equirements)*	10. Field and Po	ool, or Exploratory	
At surface 1800' fsl, 1880' fel			ruitland Coal	
·		11. Sec., T., R.	, M., or Blk. and Survey or Area	
At proposed prod. zone		J 835,	T31N, R10W	
14. Distance in miles and direction from nearest town or post office*		12. County or F		
Approximately 8.5 miles	east of Aztec	San Juan	NM	
15. Distance from proposed*	16.No. of Acres in lease	17. Spacing Unit dedi		
location to nearest	1	' '		
property or lease line, ft. 1800' (Also to nearest drg. unit line, if any)	2394.72	320 E 1/2		
(Also to nearest dig. unit line, if any)				
18. Distance from proposed location*	19. Proposed Depth	20.BLM/BIA Bond	No. on file	
to nearest well, drilling, completed, applied for, on this lease, ft.				
Approx. 500'	3 39 0'+/-			
21. Elevations (Show whether DF, KDB, RT, GL, etc.	22. Approximate date work will sta	rt* 23 Estima	ted duration	
	010/15/05			
GL 6473'	010/13/03		14 days	
$oldsymbol{arphi}$	24. Attachments			
The following, completed in accordance with the requirements of Onshore		1. 11.0		
 Well plat certified by a registered surveyor. A Drilling Plan A Surface Use Plan (if the location is on National Forest System Land SUPO shall be filed with the appropriate Forest Service Office). 			as may be required by the	
25. Signuature	Name (Printed/Typed)		Date	
$1/H \leq U$	Nathan Smith		9/13/05	
Title			1, 10, 10	
			,	
Drilling Engineer	lar (n tm . h			
Approved by (Signahtre)	Name (Printed/Typed)		Date	
tun odals			12/9/05	
Title AFM	Office			
Application approval does not warrant or certify that the applicant hold	s legal or equitable title to those rights in	the subject lease which	h would entitle the applicant to	
conduct operations the con		2001112	1370	
Conditions of approval, if any, are attached.		40/10/11	13/3	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a	crime for any person knowlingly and willfi	ully to make to any the	artment or agency of the United	
States any false, fictitious or fraudulent statements or representations as to	o any matter within its jurisdiction.	10 MAG	and to	
*(Instructions on page 2)		OUST	S. Ow Z	
		ACTURE OF THE PROPERTY OF THE		
		W.S.n.	2007	
Thie	action is subject to technical and	C 62 0	15/2000	
ATIONS ANTHORIVED ARE	BOUTEI FEVIEW DITELIANT to 42 OFF CASE			
DRILLING OPERATIONS ACTIVITIES TO SUBJECT TO COMPLIANCE WITH ATTACHED *GENERAL REQUIREMENTS*.	appeal pursuant to 43 CFR 3165.4			
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District I

1625 N. French Dr., Hobbs, NM 88240

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505 SEP 13 PM 2 45 AMENDED REPORT

Form C-102

Revised June 10, 2003 Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

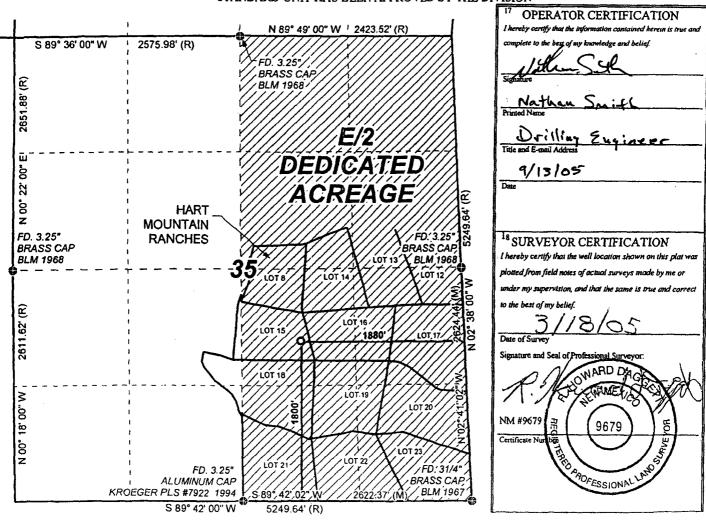
WELL LOCATION AND ACREAGE DEDICATION PLAT API Number 070 FARUH PRUGILANDICOAL 11029 Property Name 6 Well Number ATLANTIC C 200S OGRID No. ⁸ Operator Name Elevation **ENERGEN RESOURCES CORPORATION** 64731 ¹⁰ Surface Location

Feet from the North/South line | Feet from the

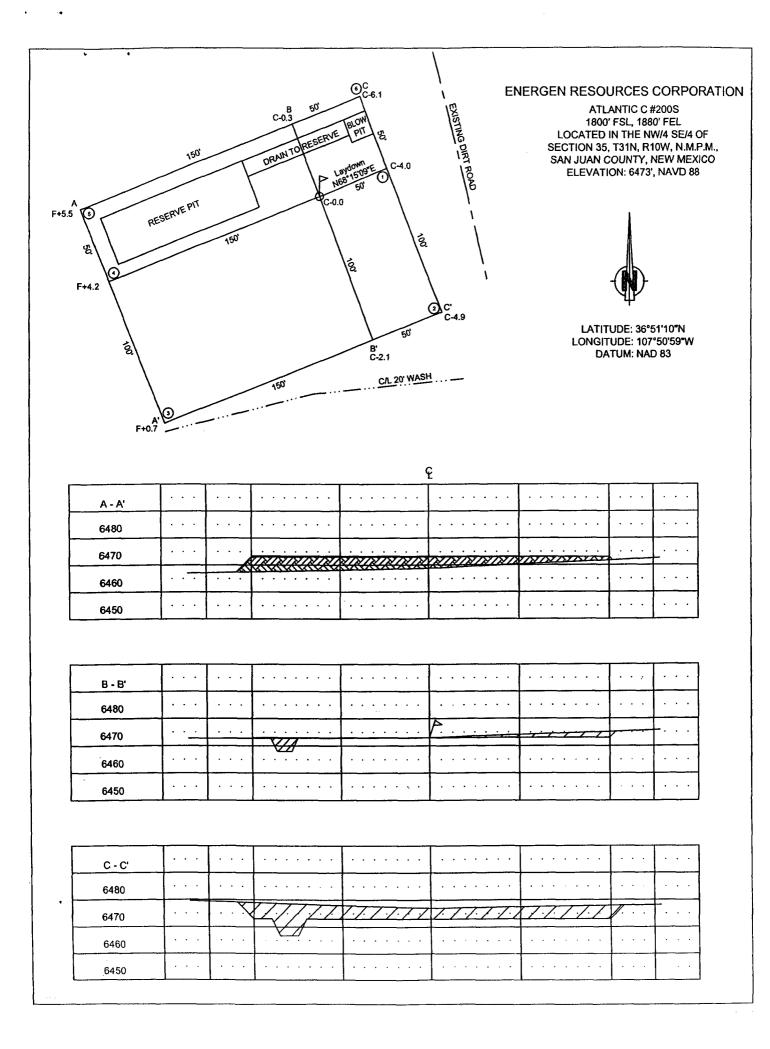
UL or lot no.	Section 35	Township 31N	Range 10W	Lot Idn	Feet from the 1800	North/South line SOUTH	Feet from the 1880	East/West line EAST	County SAN JUAN
11 Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

12 Dedicated Acres Joint or lafill Consolidation Code 15 Order 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



Submit 3 Copies To Appropriate District State of New 1	Mexico Form C-103
Office Energy, Minerals and Na	tural Resources May 27, 2004
District I 1625 N. French Dr., Hobbs, NM 87240	ON DIVISION WELL API NO 30 - 045 - 328 24
District II OIL CONSERVATION	ON DIVISION 30-145-328-24
1301 W. Grand Ave., Artesia, NM 88210 District III 1220 South St. I	Francis Dr. 5. Indicate Type of Lease
1000 Rio Brazos Rd., Aztec, NM 87410 Santa Fe, NM	87505 STATE THE TEE TO STATE THE STA
District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505	6. State Oil & Gas Lease No.
1220 0. 01. 1141100 21., 041141 07000	
SUNDRY NOTICES AND REPORTS ON W	
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPE DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM CORRESPONDED OF A CORRESP	N OR PLUG BACK TO A Atlantic C
PROPOSALS.) 1. Type of Well:	8. Well Number
Oil Well Gas Well X Other	1
2. Name of Operator	9. OGRID Number
Energen Resources Corporation	162928
3. Address of Operator	10. Pool name or Wildcat
2198 Bloomfield Highway, Farmington, NM 87401	Basin Fruitland Coal
4. Well Location	Destil Fruitain Cont
Unit Letter J : 1800 feet from the \$	South line and 1880 feet from the East line
Section 35 Township 31N	Range 10W NMPM County San Juan
11. Elevation (Show wheth	
	6473' GL
Pit or Below-grade Tank Application 🕱 or Closure	Communication and Communicatio
Pit type Drill Depth to Groundwater >100' Distance from nearest fi	rech water well >1000' Dictance from negrect surface water >250
Pit Liner Inickness: mii Below-Grade lank: Volui	nebbls; Construction Material
12 Check Appropriate Box to Indias	ste Nature of Notice Report or Other Data
	nte Nature of Notice, Report, or Other Data
NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
	SUBSEQUENT REPORT OF:
NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF: REMEDIAL WORK ALTERING CASING COMMENCE DRILLING OPNS. PLUG AND
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Terra ENERGEN	RESOURC	KUTZ ES CORP ATLANTIC C N		RING SYSTEM	DWG. ND. <u>KL</u> WO NO	B063-037-01
					RW NO	D1 /D7 /D5
		ON B.R.O.G. CO ATLAN			DATE	01/03/05 1" = 1000'
(KLB63-1	7-1, R/V	N NO. 72122)(MC NO. 874	57)		SCALE SURVEYED	12/18/04
COUNTY SAN JUA	AN	STATE NEW MEXICO	SECTION 35	TOWNSHIP_31-1		-W, N.M.P.M.
	27 34	26 1968 U.S.C.S. 35			26 35	25 36
T-31-N, R-10-W, N.M.P.M. BASIS OF BEARING: CPS OBSERVATIONS	968 U.S.C.S.	SCA	DETAIL ALE: 1 = 200	1+67.26 PROPOSED ENERGEN RESOURCES ATLANTIC C No. 2005 S56"16"33"W P.I. 1445.00 Δ 127'50 PROPOSED METER OU O+49.00 C/L WASH M6"13"44"E O+80 = 21+59.48 0 ATLANTIC C No. 10	6 <u>9'11" LT.</u> JT (2'D X 4'W)	
	34	N7723'03' 4207.5		N7F/07/48"E 4263.44' (0+00)	SEE DETAIL T-31-N 35	5 36
	3	2-1967 U.S.C.S.			T-30-N	2 1
DWN. 6Y <u>DB</u>	[CONSTR. COMMENCED CONSTR. COMPLETED	D.	ATE	PIPE SIZE	AN
PRINT RECOR			PIPE DATA	METE	R STA. NO.	
ESINZ4G (Rev. 9)		NOTE: WELL FLAG SURVEY LOOPS PR LOCATION NOT BUI			Prelim	ninary
L SURDIVISIO		OWNER		LESSEE	METER(S)	RODS ACRE(S)
SE/4 SEC. 3	55	JOHN CAIN & GEI	NE H. HOLMES,	TRUSTEES	1	0.137 0.230
REV. OWNER				***		
3 6						
1/2						
E E E E E E E E E E E E E E E E E E E						
3			-			

Operations Plan

September 13, 2005

Atlantic C #200S

General Information

Location 1800' fsl, 1880' fel

S35, T31N, R10W

San Juan County, New Mexico

Elevations 6473' GL Total Depth 3390' (MD)

Formation Objective Basin Fruitland Coal

Formation Tops

San Jose	Surface
Nacimiento	368'
Ojo Alamo Ss	1913'
Kirtland Sh	2018'
Fruitland Fm	2883'
Top Coal Interval	3068'
Bottom Coal Interval	3238'
Pictured Cliffs Ss	3243'
Total Depth	3390'

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: Surface to TD use Induction/GR 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	0-3390'	7 7/8"	5 ½"	15.5 ppf	J-55 LT&C
Tubing	0'-3350'		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 267 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 510 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 160 sks of Standard (Class B) cement with 5.0 #/sk Gilsonite, and ½ #/sk Flocele (15.2ppg, 1.24 ft³/sk). (1198 ft³ of slurry, 100 % excess to circulate to surface).

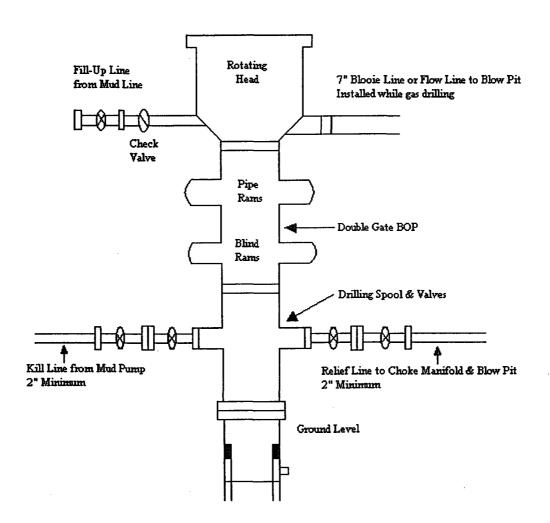
Pump 30 sks of flyash scavenger spacer consisting of 15.0 % Benonite and 0.15 % HR-5 ahead of cement

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.

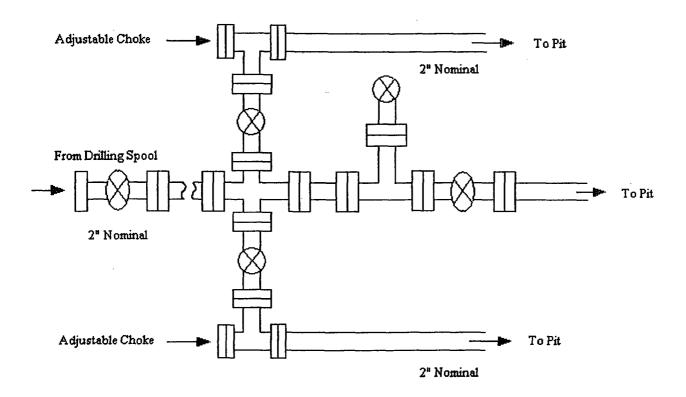
Energen Resources Corporation

Typical BOP Configuration for Gas Drilling



Energen Resources Corporation

Typical 2000 psi Choke Manifold Configuration



Choke manifold installed from surface to TD