

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB NO. 1004-0137 Expires July 31, 2010

APPLICATION FO	1 .	5. Lease Serial No. USA NMNM 120384				
a. Type of Work X DRILL REENTER				6. If Indian, Allotee or Tribe Name		
o. Type of Well Oil Well X Gas Well Other Single Zone Multiple Zone				7. Unit or CA Agreement Name and No.		
. Name of Operator		8. Lease Name and Well No.				
Energen Resources Corporation a. Address	RUI	RUBY #200S				
2010 Afton Place Farmington, Ne Location of Well (Report location clearly and	w Mexico 87401	3b. Phone No. (include area co	9. AFI		5.34987	
At surface 1820'FSL 1980'FWL	in accordance with any state	ецинетель»	Bas	and Pool, or E	xploratory and Coal Blk. and Survey or Area	
At proposed prod. zone		K - Sec.21, T27N, R12W NMPM				
4. Distance in miles and direction from nearest to		nty or Parish	13. State			
5 mi]	les south of Bloomfi	eld. NM	San i	luan	NM	
5. Distance from proposed* location to nearest		16. No. of Acres in lease		nit dedicated to		
property or lease line, ft. 1820' (Also to nearest drg. unit line, if any)		320	W/2			
Distance from proposed location* to nearest well, drilling, completed,		19. Proposed Depth	20. BLM/BIA	0.BLM/BIA Bond No. on file		
- applied for, on this lease, ft. 200	00'	1455'				
Elevations (Show whether DF, KDB, RT, GL, etc.		22. Approximate date work will start*		23. Estimated duration		
5798 GL This action is subject to		NOVEMBER 2009		15 days		
procedural review purs and appeal pursuant to ne following, completed in accordance with the r	uant to 43 CFR 3165 3 24.	Attachments		CUB IECT TO	ERATIONS AUTHORIZED A COMPLIANCE WITH ATTA EQUIREMENTS*-	
Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on Natic SUPO must be filed with the appropriate Fore	-	 4 Bond to cover the operatil Item 20 above). 5. Operator certification. 6. Such other site specific in BLM 		ered by an existi OIL CI or plans as may l	MS. DIV. be required by the	
.Signature		mo (Prints J/Trus - I)		Date		
issignature of the signature of the sign	1	me (Printed/Typed)		Date	05 (00 (00	
tle	J.F	ASON KINCAID			05/20/09	
Drilling Engineer					-	
pproved by (Signautre) Man 1 e o 1 l	Nai	ame (Printed/Typed)		Date 3/6	29/2010	
tle ATM	Off	fice FFO				
oplication approval does not warrant or certify induct operations thereon. onditions of approval, if any, are attached.	that the applicant holds legal	or equitable title to those rights in t	he subject leas	e which would	entitle the applicant to	
tle 18 U.S.C. Section 1001 and Title 43 U.S.C. Sates any false, fictitious or fraudulent statements	Gection 1212, make it a crime for representations as to any m	for any person knowlingly and willfu atter within its jurisdiction.	lly to make to a	any department	or agency of the United	
ontinued on page 2)			×	*(Instructions or	n page 2)	
	NOTIFY	AZTEC OCD 24	HRS.			
, <u>f</u>	PRIOR T	O CASING & CE	EMENT		$\rho_{\Omega_{\Omega_{\Omega}}}$	
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BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS

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NMOCD

APR 0 5 2010

Bureau of Land Management Farmington Field Office District I 1625 N. French Dr., Hobbs, N.M. 88240 State of New Mexico

RECEIVED

Form C-102
Revised October 12, 2005

Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION

Justinit Allappropriate District Office

DISTRICT II 1301 W. Grand Avenue , Artesia. NM 88210 DISTRICT III 1000 Rio Brazos Rd., Aztec, N.M. 87410

1220 South St. Francis Dr. Santa Fe. NM 87505

State Lease — 4 Copies
Fee Lease — 3 Copies
Bureau of Land Managamont

DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Farmington Field Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT API Number Pool Code Pool Name 30.045-3 71629 FC ⁰ Well Number Property Code ⁵Property Name 38099 RUBY #200s OGRID No ⁸Operator Name ^e Elevation **ENERGEN RESOURCES** 5798 162928 10 Surface Location UL or lot no. Feet from the North/South line East/West line Section Township Range Lot Idn Feet from the County 21 27-N 12-W 1820' SOUTH 1980' WEST SAN JUAN K Bottom Hole Location If Different From Surface UL or lot no. Lot Idn Feet from the North/South line Feet from the Section Township Range East/West line County 12 Dedicated Acres Joint or Infill 14 Consolidation Code 15 Order No. 320 W/2 No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the 16 N89'52'37"W 5284.21'(M) FD 21/4 GLO BC 1911 OPERATOR CERTIFICATION CALC COR N89°57'W 80 CHAINS (R) BY DOUBLE I hereby certify that the information contained herein is PROP. true and complete to the best of my knowledge and belief, and that this organization either owns a work interest or unleased mineral interest in the land including the proposed bettom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the 38 6-3-09 5284,21' CHAINS (Signature N89.52,37"W 80 18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat ENERGEN RESOURCES was plotted from field notes of actual surveys made by RUBY #200s me or under my supervision, and that the same is true and correct to the best of my belief. LAT. 36.55845 N 1980 LONG. 108.11923 W Date of Su FND 21/4 GLO BC 191 \$89.57'E 80 CHAINS (R) FD 21/4 GLO BC 1911 Certificate Number 589'54'08"E 5279.43'(M)

6/3/2009



OPERATIONS PLAN

WELL NAME	Ruby #200S
JOB TYPE	Vertical Fruitland Coal
DEPT	Drilling and Completions
PREPARED BY	Jason Kincaid

GENERAL INFORMATION

Surface Location 1820 FSL 1980 FWL
S-T-R (K) Sec.21-T27N-R12W
County, State San Juan, New Mexico

Elevations 5798' GL
Total Depth 1455' +/- (MD)
Formation Objective Basin Fruitland Coal

FORMATION TOPS

 Ojo Alamo Ss
 surface

 Kirtland Sh
 170'

 Fruitland Fm
 1020'

 Top Coal
 1145'

 Base Coal
 1235'

 Pictured Cliffs
 1255'

 Total Depth
 1455'

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 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: 7-7/8" wellbore induction/gamma ray and density logs.

Mudlogs: none

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

6/3/2009



CASING, TUBING & CASING EQUIPMENT

String	Start Depth	End Depth	Wellbore	Size	Wt	Grade
Surface	0	150	12-1/4"	8-5/8"	24.0 lb/ft	J-55 ST&C
Production	0	1455	7-7/8"	5-1/2"	15.5 lb/ft	J-55 LT&C
Tubing	0	1455	·	2 3/8"	4.7 lb/ft	J-55

Casing Equipment:

Surface Casing: Depending on wellbore conditions, a Texas Pattern Guide Shoe on first joint with and insert float valve on top. Run standard bow spring centralizers as follows: every other joint from TD to surface.

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.

CEMENTING

Surface Casing: 105 sks Std (class B) with 2.0 % CaCl₂ and ½ #/sk Flocele (15.6 ppg, 1.18 ft³/sk 59 ft³ of slurry, 100% excess to circulate to surface). WOC 12 hours. Pressure test surface casing to 750 psi for 30 min. V= 125 Ft³

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 125 sks 65/35 with 6.0 % Bentonite, 2.0 % CaCl₂, 10 #/sk Gilsonite, and ½ #/sk Flocele (12.3 ppg, 1.93 ft³/sk) and a tail of 150 sks of Class G cement with 5.0 #/sk Gilsonite, and ¼ #/sk Flocele (15.4ppg, 1.18 ft³/sk). (572 ft³ of slurry to circulate to surface, 60% excess).

Pump a 10 bbls water, 20 bbls gelled water, 5 bbls water spacer ahead of cement

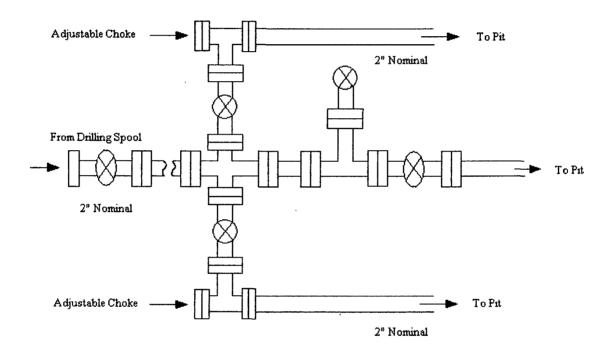
Cement volumes are subject to change if caliper logs are run and dictate otherwise.

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. Anticipated pressure is 300 psi.
- 4) No abnormal temperatures or pressures are anticipated.
- 5) This gas is dedicated.

Energen Resources Corporation

Typical 2000 psi Choke Manifold Configuration



Choke manifold installed from surface to TD

Energen Resources Corporation

Typical BOP Configuration for Gas Drilling

