Form 3160-3 (April 2004) UNITED STATES DEPARTMENT OF THE INTERI BUREAU OF LAND MANAGEME	FORM APPROVED OMB NO. 1004-0137 Expires March 31, 2007	
APPLICATION FOR PERMIT TO DRILL	OR REENTER	5. Lease Serial No. SF 78139
la. Type of Work X DRILL REENTE	R	6. If Indian, Allotee or Tribe Name
1b. Type of Well Oil Well Sas Well Other	Single Zône De Multiple Zone 2	7. Unit or CA Agreement Name and No.
2. Name of Operator	RECEIVED	8. Lease Name and Well No.
Energen Resources Corporation 3a. Address	3b. Phone No. (include area code)	Federal 30-9-26 #2S
2198 Bloomfield Highway Farmington, New Mexico 8		9. API Well No. 30-045-32737
4. Location of Well (Report location clearly and in accordance with any State		10. Field and Pool, or Exploratory
At surface 849' FNL 1698' FWL		Basin Fruitland Coal
At proposed prod. zone	B 2005 A	11. Sec., T., R., M., or Blk. and Survey or Area Sec. 26, T30N, R09W NMPM
14. Distance in miles and direction from nearest town or post office*		12. County or Parish 13. State
6.5 miles east of Rlar	CONTINUE OF THE PARTY OF THE PA	San Juan NM
15. Distance from proposed*		pacing Unit dedicated to this well
location to nearest property or lease line, ft. (Also to nearest drg. unit line, if any)	25602 V	× 1/2 320.00
18. Distance from proposed location*	19. Proposed Depth 20. I	BLM/BIA Bond No. on file
to nearest well, drilling, completed, applied for, on this lease, ft.	28391	
21. Elevations (Show whether DF, KDB, RT, GL, etc.	22. Approximate date work will start*	23. Estimated duration
5947'	03/05	6 days
This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4	1 Attachments SUBJE	NG OPERATIONS AUTHORIZED ARE CT TO COMPLIANCE WITH ATTACHED RAL REQUIREMENTS".
The following, completed in accordance with the requirements of Onshore Oil		
 Well plat certified by a registered surveyor. A Drilling Plan A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). 	Item 20 above). 5. Operator certification.	nless covered by an existing bond on file (see
25. Signuature	lame (Printed/Typed)	Date
hour Thomas	Doug Thomas	12/03/04
Title		
Drilling Superintendent		
Approved by (Signautre)	lame (Printed/Typed)	Date
Title Title	Office	2.4-05
AFM	FFO	
Application approval does not warrant or certify that the applicant holds legal conduct operations thereon. Conditions of approval, if any, are attached.	Il or equitable title to those rights in the su	bject lease which would entitle the applicant to
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crim		make to any department or agency of the United

District I, 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 1301 W. Grand Avenue, Artesia, NM 88210 <u>District III</u> A 1000 Rio Brazos Rd., Aztec, NM 87410

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

District IV

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.

Form C-102 Revised June 10, 2003 Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

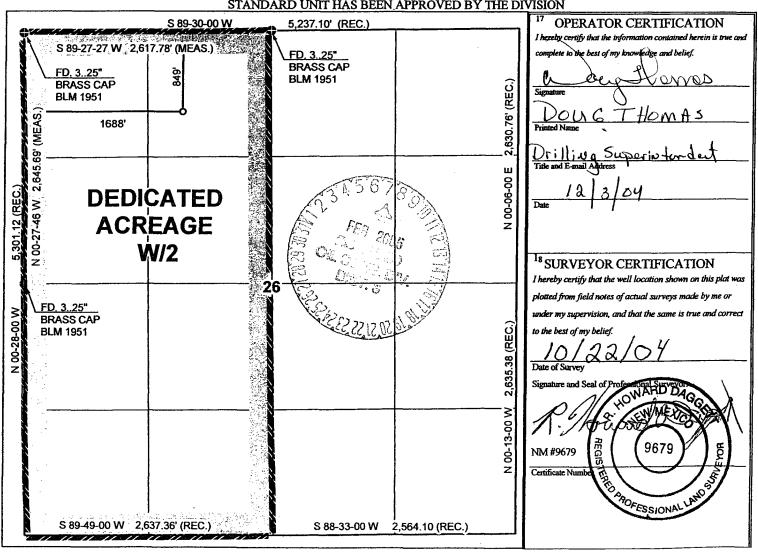
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

Santa Fe, NM 87505

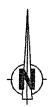
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7	API Numbe	ラフクラ	-	² Pool Cod	e	Pool Name											
20.04	\ <u>\</u> \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	5610				50511 TO FRUITLAND COAL											
1 Property	Code				⁵ Property	operty Name 6 Well N											
30045	4				FEDERAL	30-9-26	28										
OGRID '	No.				8 Operator	Name		⁹ Elevation									
16293	28		[5947'													
		•			¹⁰ Surface	Location											
UL or lot no.	Section	Township								County							
C	26	30N	9W		849	NORTH	1688	WES	ST	SAN JUAN							
			11 Bo	ottom Ho	le Location I	f Different From	m Surface	_									
UL or lot no.	r lot no. Section Township Range Lo				Feet from the	East/We:	est line Count										
² Dedicated Acres	Joint o	rlmfill 14 C	onsolidation	Code 15 Or	rder No.												
	1	1		1													

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

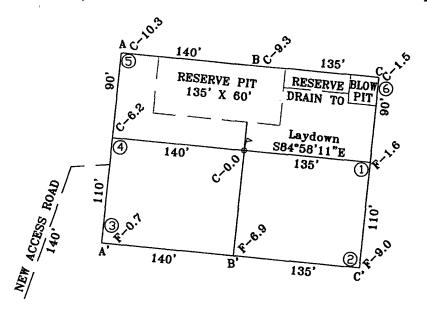


ENERGEN RESOURCES CORPORATION

FEDERAL 30-9 26 #2S 849' FNL, 1688' FWL LOCATED IN THE NE/4 NW/4 OF SECTION 26, T30N, R9W, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO ELEVATION: 5947', NAVD 88



LATITUDE: 36°47'13"N LONGITUDE: 107°45'12"W DATUM: NAD 83



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Operations Plan December 3, 2004

Federal 30-9-26 #2S

General Information

Location 0849' fnl, 1688' fwl

S27, T30N, R09W

San Juan County, New Mexico

Elevations 5947' GL Total Depth 2839' (MD)

Formation Objective Basin Fruitland Coal

Formation Tops

Nacimiento	Surface
Ojo Alamo Ss	1514'
Kirtland Sh	1614'
Fruitland Fm	2339'
Top Coal	2439'
Bottom Coal	2639'
Pictured Cliffs Ss	2654'
Total Depth	2839'

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 8.9 ppg to 9.5 ppg. Blowout Control Specifications:

An 11" 2000 psi minimum double gate BOP stack (figure 1) will be used following nipple up of casing head. During air drilling operations, a Shaffer Type 50 or equivalent rotating head will be installed on top of stack. A 2" nominal, 2000 psi minimum choke manifold will also be used. An upper Kelly Cock valve handle available and drill string valve to fit each drill string will be available on the rig floor during drilling operations.

Logging Program:

Open hole logs: Surface to TD use Induction/GR and Density logs at TD

Mud logs: Check with Greg Jennings

Coring: None

Natural Gauges: None

Tubulars

Casing, Tubing, & Casing Equipment:

String	Interval	Wellbore	Casing	Csg Wt 24.0 ppf 15.5 ppf	Grade
Surface	0'-300'	12 ½"	8 5/8"		J-55 ST&C
Production	300'-2839'	7 7/8"	5 ½"		J-55 LT&C
Tubing	0'-2800'		2 3/8"	4.7 ppf	J-55

Casing Equipment:

Surface Casing: Texas Pattern Guide Shoe on bottom. 4 bow spring centralizers spaced every other joint from bottom.

Production Casing: Cement nose guide shoe with self fill insert float collar on top of bottom joint. 10 bow spring centralizers spaced every 2nd joint off bottom. Two turbolating centralizers at the base of the Ojo Alamo.

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 $\frac{1}{4}$ #/sk Flocele (15.6 ppg, 1.18 ft³/sk-248 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 425 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 140 sks Standard (Class B) with 5.0 #/sk Gilsonite, ¼ #/sk Flocele (15.2 ppg, 1.26 ft³/sk). 498470 ft³ of slurry, 100 % excess to circulate to surface).

Pump 30 bbls of Flyash spacer/scavenger, consisting of: San Juan Poz, 15.0 % Bentonite, and 0.15 % HR-5 ahead of lead cement.

Other Information

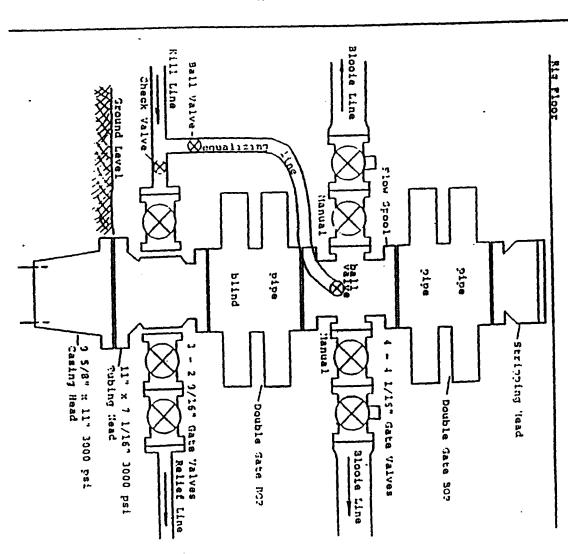
- 1) This well will be fracture stimulated.
- 2) If lost circulation is encountered, sufficient LCM will be added to the mud system to maintain well control. The production string may need to be cemented in multiple stages with a slurry design deviated from that listed above.
- 3) If high reservoir pressures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

PICAL B.O.P.E. INSTALLATION O'DA A FRUITLAND COOL WELL (to Priemedate TD) PIPE AAMS PIPE AAMS PIPE AAMS PIPE AAMS PINE AAMS PIPE AAMS PI

Figure #2

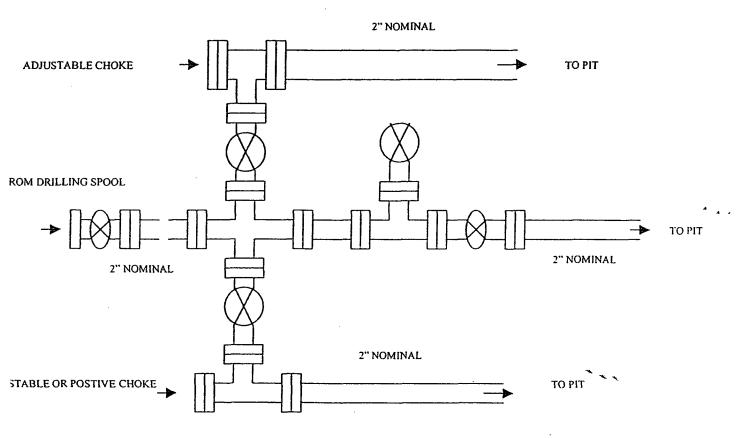
TRUITLAND COAL WELL
TYPICAL BOP CONFIGURATION
7 1/16" 3000 psi (minimum) BOP STACK

(from intermediate to total depth)



ENERGEN RESOURCES CORPORATION

Choke Manifold Configuration 2M psi System



Minimum choke manifold installation from surface to Total Depth. 2" minimum, 2000 psi working pressure equipment with two chokes.