UNITED TES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

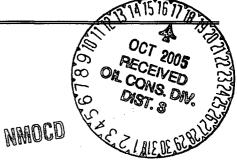
FORM APPROVED
OMB NO. 1004-0137
Expires March 31, 2007

APPLICATION FOR PERMIT TO DRILL OR REENTER		5. Lease Serial No. NM 03549
a. Type of Work X DRILL	6. If Indian, Allotee or Tribe Name	
Time of Well -	7005 AUG 26 AM S	
Name of Operator	RECEIVED	8. Lease Name and Well No.
Energen Resources Corporation	OTO FARMINGTO	receial 20 0 23 #25
a. Address 2198 Bloomfield Highway Farmington, New	3b. Phone No. (include area w Mexico 87401 (505) 325-6800	19.05 AVEILAY (C. 2 22222
Location of Well (Report location clearly and in accordance		10. Field and Pool, or Exploratory
At surface 0660' fnl, 1845' fwl		Basin Fruitland Coal 11. Sec., T., R., M., or Blk. and Survey or Ar
At proposed prod. zone		C S29,T28N, R08W
Distance in miles and direction from nearest town or post offi	ice*	12. County or Parish 13. State
Approximately 8.85 mi	iles south east of Blanco	San Juan NM
5. Distance from proposed* location to nearest	16. No. of Acres in lease	17. Spacing Unit dedicated to this well
property or lease line, ft. (Also to nearest drg. unit line, if any)	1876.58	320 W 1/2
Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20.BLM/BIA Bond No. on file
Approx. 550	0' 2410	
Elevations (Show whether DF, KDB, RT, GL, etc.	22. Approximate date work will s	start* 23.Estimated duration
GL 5834'	06/05/05	14 days
	24. Attachments	
the following, completed in accordance with the requirements o Well plat certified by a registered surveyor. A Drilling Plan A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office.)	4. Bond to cover the oper Item 20 above). 5. Operator certification.	hed to this form: rations unless covered by an existing bond on file (see
5. Signuature	Name (Printed/Typed)	Date
1/sh Cell	Nathan Smith	8/25/05
itle		
Drilling Engineer Approved by (Signature) Approved by (Signature)	Name (Printed/Typed)	Date /3/80
itle AFM	Office	+
application approval does not warrant or certify that the application on the specific conduct operations thereon. Conditions of approval, if any, are attached.	icant holds legal or equitable title to those rights	in the subject lease which would entitle the applicant
Fitle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212,	, make it a crime for any person knowlingly and wi	illfully to make to any department or agency of the Uni

*(Instructions on page 2)

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4



MM - CHENO

1876,55

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

Form C-102 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 BV6**026-2088

AMENDED REPORT

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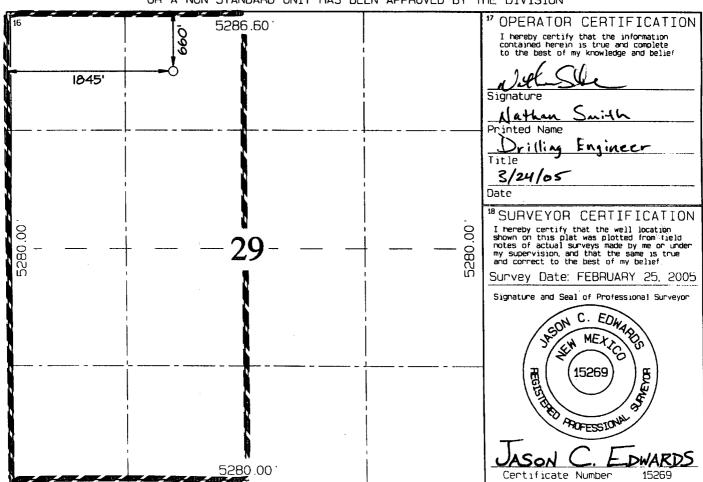
RECEIVED

070 FARMINGTON UM WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number	*Pool Code 71629			
30-045-33322	7 1029	BASIN FRUITLAND COAL		
Property Code	*Pr	⁶ Well Number		
300437	FEDEF	25		
'OGRID No.	*Operator Name		*Elevation	
162928	ENERGEN RESOURCES CORPORATION 5834			
L	40			

¹⁰ Surface Location Feet from the North/South line Sect ion Township Lot Idn UL or lot no. Range Feet from the East/West line County 29 28N 8W NORTH 1845 WEST C 660 SAN JUAN ¹¹Bottom Hole Location If Different From Surface UL or lot no. Sect 100 Township Lot Idn Feet from the North/South line Feet from the East/West line County 12 Dedicated Acres ¹³ Joint or Infill ¹⁴ Consolidation Code ¹⁵ Order No 320.0 Acres - (W/2)

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



APPROVED BY_

Conditions of Approval, if any:

Energy, Minerals and Natural Resources

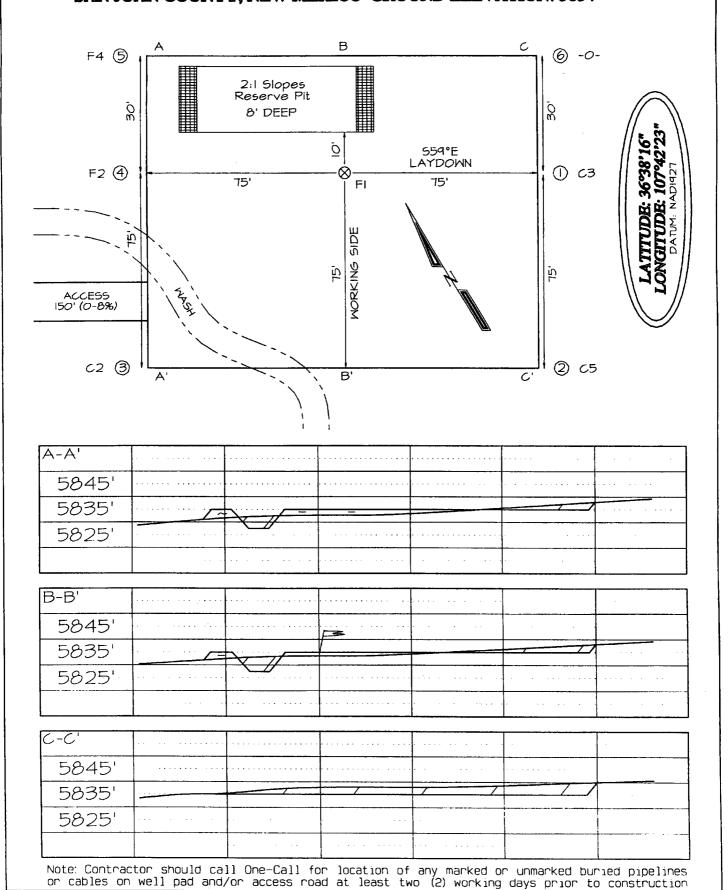
Form	C	-1	03
May 2	7.	20	004

	May 27, 200
L API NO.	02200

_DATE.

District I 1625 N. French Dr., Hobbs, NM 87240 District II OII CONSEDWAT	WELL API NO. 30-645-33322
1301 W. Grand Ave., Artesia, NM 88210	Old Division
District III 1220 South St. 1000 Rio Brazos Rd., Aztec, NM 87410 Santa Fe, NM	Tallels D1.
District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505	6. State Oil & Gas Lease No.
	IELLO III II I
SUNDRY NOTICES AND REPORTS ON V I(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPI	
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM (PROPOSALS.)	-101) FOR SUCH
1. Type of Well:	8. Well Number
Oil Well Gas Well X Other	2S
2. Name of Operator	9. OGRID Number
Energen Resources Corporation 3. Address of Operator	162928 10. Pool name or Wildcat
2198 Bloomfield Highway, Farmington, NM 87401	Basin Fruitland Coal
4. Well Location	
Unit Letter <u>C</u> : 660 feet from the	North line and 1845 feet from the West line
Section 29 Township 28N	Range 08W NMPM County San Juan
11. Elevation (Show wheth	er DR, RKB, RT, GR, etc.) 5834' GL
Pit or Below-grade Tank Application X or Closure	the processing of the control of the
Pit type Drill Depth to Groundwater >100' Distance from nearest	resh water well >1000' Distance from nearest surface water >250'
Pit Liner Thickness: 12 mil Below-Grade Tank: Volu	mebbls; Construction Material
NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK PLUG AND ABANDON CHANGE PLANS PULL OR ALTER CASING MULTIPLE COMPLETION	COMMENCE DRILLING OPNS. PLUG AND ABANDONMENT CASING TEST AND CEMENT JOB
OTHER: Build drilling pit	OTHER:
of starting any proposed work). SEE RULE 1103. For Mulor recompletion. Energen Resources plans to build a lined pit accompletion.	pertinent details, and give pertinent dates, including estimated date iple Completions: Attach wellbore diagram of proposed completion ording to "OCD Pit and Below-grade Tank Guidelines", as the submittal of a C-144 for closure of this pit in Tank Guidelines".
I hereby certify that the information above is true and complete to	the best of my knowledge and belief. I further certify that any pit or below-
grade tank has been/will be constructed or closed according to NMOCD guid	lines 🔀 , a general permitor an (attached) alternative OCD-approved plan
SIGNATURE SIGNATURE	TITLE Drilling Engineer DATE 08/25/05
Type or print name Nathan Smith	E-mail address: nsmith@energen.com Telephone No. 505.325.6800
For State Use Only	DEPUTY OIL & GAS INSPECTOR, DIST. (I)

ENERGEN RESOURCES CORPORATION FEDERAL 28-8-29 #2S 660' FNL & 1845' FWL, SECTION 29, T28N, R8W, NMPM SAN JUAN COUNTY, NEW MEXICO GROUND ELEVATION: 5834'



Operations Plan August 25, 2005

Federal 28-8-29 #2S

General Information

Location

660' fnl, 1845' fwl

nenw S29, T28N, R8W

San Juan County, New Mexico

Elevations

5834' GL

Total Depth

2410' (MD)

Formation Objective

Basin Fruitland Coal

Formation Tops

Nacimiento	Surface
Ojo Alamo Ss	1284'
Kirtland Sh	1381'
Fruitland Fm	1990'
Top Coal	2033'
Bottom Coal	2216'
Pictured Cliffs Ss	2216
Total Depth	2410'

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 ft to TD

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'-2410'	7 7/8"	5 ½"	15.5 ppf	J-55 LT&C
Tubing	0'-2390'		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: 175 sks Std (class B) with 2.0 % CaCl₂ and ¼ #/sk Flocele (15.6 ppg, 1.18 ft³/sk 206 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 345 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). (856 ft³ of slurry, 100 % excess to circulate to surface).

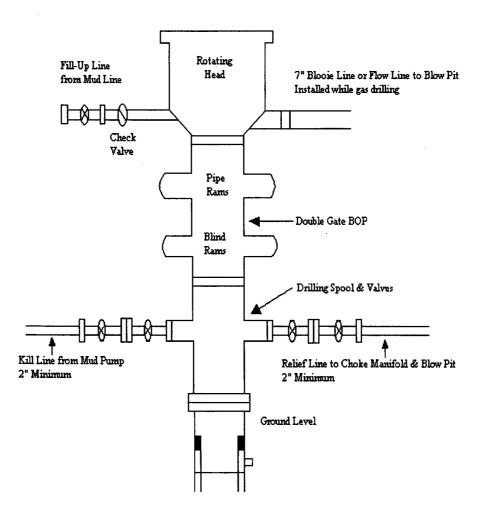
Pump 30 sks of flyash scavenger spacer consisting of 15.0 % Benonite and 0.15 % HR-5 ahead of cement

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.

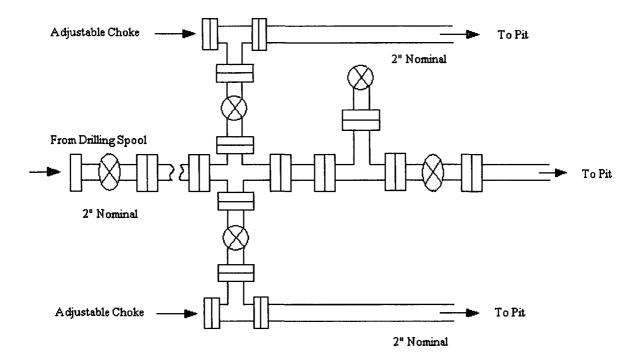
Energen Resources Corporation

Typical BOP Configuration for Gas Drilling



Energen Resources Corporation

Typical 2000 psi Choke Manifold Configuration



Choke manifold installed from surface to TD