Foun 3160-3 (April 2004)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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

Single Zone Multiple Zone RECEIVED 3b. Phone No. (include area code 87401 (505) 325-6800 State equirements)*	7. Unit or CA 8. Lease Nam Federal 9. API Well N 30 - C	Agreement Name and No. e and Well No. 28-8-35 #18	
Single Zone Multiple Zone Single Zone Multiple Zone Mul	7. Unit or CA 8. Lease Nam Federal 9. API Well N 30 - C	Agreement Name and No. e and Well No. 28-8-35 #1S	
3b. Phone No. (include area coo	8. Lease Nam Federal 9. API Well N 30 - (e and Well No. 28-8-35 #1S	
3b. Phone No. (include area coo 87401 (505) 325–6800	Federal 9 API Well N 30 - C	28-8-35 #1 S	
3b. Phone No. (include area code 8740) (505) 325-6800	9. API Well N 30 - 0	lo.	
87401 (505) 325–6800	30-0		
ouie equitements;			
		ool, or Exploratory Fruitland Coal	
Attroposed prod. zone			
		O S35,T28N, R08W	
	12. County or	Parish 13. State	
th east of Blanco	San Juan	MM.	
16. No. of Acres in lease	17. Spacing Unit ded	icated to this well	
1266.8	306.8 S 1/2		
19. Proposed Depth	20.BLM/BIA Bond	No. on file	
3404'			
22. Approximate date work will star	t* 23.Estim	ated duration	
2/20/06		14 days	
the5. Operator certification.6. Such other site specific inf	formation and/or plan	s as may be required by the	
		Date	
Nathan Smith		10/27/05	
Name (Printed/Typed)		Date	
		11/3/03	
le Office		· / / / / / / / / / / / / / / / / / / /	
FFO			
egal or equitable title to those rights in t	he subject lease which	h would entitle the applicant	
rime for any person knowlingly and willful	lly to make to any de	partment or agency of the Un	
	16. No. of Acres in lease 1266.8 19. Proposed Depth 3404' 22. Approximate date work will star 2/20/06 24. Attachments Dil and Gas Order No. 1, shall be attached 4. Bond to cover the operatil tem 20 above). 5. Operator certification. 6. Such other site specific infauthorized officer. Name (Printed/Typed) Nathan Smith Name (Printed/Typed) Office	12. County or San Juan 16. No. of Acres in lease 17. Spacing Unit ded 1266.8 306.8 306.8 19. Proposed Depth 20. BLM/BIA Bond 3404 22. Approximate date work will start* 23. Estime 2/20/06 24. Attachments 24. Bond to cover the operations unless covered by Item 20 above). 5. Operator certification. 6. Such other site specific information and/or plan authorized officer. Name (Printed/Typed) Nathan Smith Name (Printed/Typed) Nathan Smith Office Ease whice Ease E	

NWOCD

DISTRICT I 1625 N. French Dr., Hobbs, N.M. 88240

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised August 15, 2000

DISTRICT II 811 South First, Artesia, N.M. 88210

1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505 OIL CONSERVATION DIVISION 2040 South Pacheco

Santa Fe, NM 87505

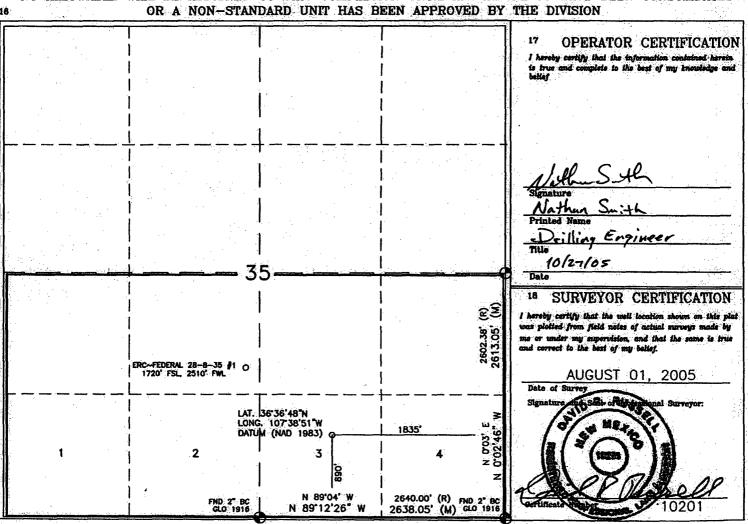
Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

2005 001 28 100 🖬 AMENDED REPORT

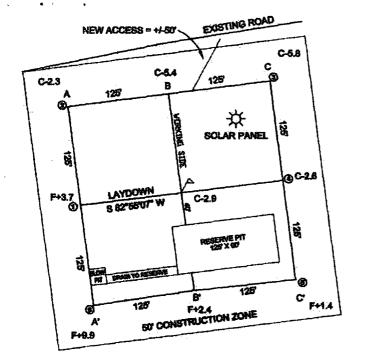
WELL LOCATION AND ACREAGE DEDICATION PLAT Pool Code Pool Name Basin UP FRUITLAND COAL Well Number Property Code 34189 FEDERAL 28-8-35 15 OGRID No. Operator Name Elevation 162928 **ENERGEN RESOURCES CORPORATION** 6822"

10 Surface Location UL or lot no. Township Range Peet from the North/South line Section Feet from the East/West line Lot Idn 1835 35 28N 8W 890' SOUTH EAST SAN JUAN "Bottom Hole Location If Different From Surface UL or lot no. Section Feet from the North/South line | Feet from the East/West line Township County Dedicated Acres 304.8 ³ Joint or infill 14 Consolidation Code 15 Order No 315.64 Acres - (S/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

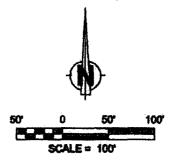


	New Mexico			Form C-103
Office Energy, Minerals an	d Natural Reso	ources		May 27, 2004
1625 N. French Dr., Hobbs, NM 87240		Ï	WELL API NO.	33391
District II 1301 W. Grand Ave., Artesia, NM 88210 OIL CONSERV			5. Indicate Type of I	·····
District III 1220 South	St. Francis D	Or.	STATE	FEE 🗆
1000 Rio Brazos Rd., Aztec, NM 87410 Santa Fe District IV	, NM 87505	ļ-		
1220 S. St. Francis Dr., Santa Fe, NM 87505			6. State Oil & Gas L	ease No.
SUNDRY NOTICES AND REPORTS OF (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DO DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FO PROPOSALS.)	EEPEN OR PLUG		7. Lease Name or Ur Federal 28-8-35	nit Agreement Name:
1. Type of Well:			8. Well Number	
Oil Well Gas Well X Other		İ	#1 S	
2. Name of Operator			9. OGRID Number	
Energen Resources Corporation			16292	8
3. Address of Operator			10. Pool name or Wi	ildcat
2198 Bloomfield Highway, Farmington, NM 874	01		Fruitland Coal	
4. Well Location				
		_ line and	1835' feet from	the <u>East</u> line
	28N Range	08W		County San Juan
11. Elevation (Show)	vhether DR, RK 6822' GL	B, RT, GR, etc	.)	
Pit or Below-grade Tank Application X or Closure				}
Pit type Drill Depth to Groundwater >100' Distance from ne	arest fresh water w	vell <u>>1000 '</u> Dist	ance from nearest surface	water >250'
Pit Liner Thickness: 12 mil Below-Grade Tank:	Volumet	bbls; Construction	n Material	
12 Charle Ammanuista Day to I	-diaata Matuu	a of Matica	Damant an Othan I)to
12. Check Appropriate Box to In	noicate Natur	•	•	
NOTICE OF INTENTION TO:			SEQUENT REPO	
PLUG AND ABANDON	N L REME	DIAL WORK	L_J	ALTERING CASING
ΓEMPORARILY ABANDON ☐ CHANGE PLANS	СОММ	MENCE DRILLIN	NG OPNS.	PLUG AND ABANDONMENT
PULL OR ALTER CASING MULTIPLE COMPLETION		IG TEST AND INT JOB		
OTHER: Build drilling pit	X OTHE	R:		
 Describe proposed or completed operations. (Clearly sta of starting any proposed work). SEE RULE 1103. For or recompletion. 				
Energen Resources plans to build a lined pit issued on November 1,2004. Energen anticipat accordance with BIM and "OCD Pit and Below-gr	es the submit	ttal of a C-1	_	•
hereby certify that the information above is true and complete grade tank has been/will be constructed or closed according to NMOCD				
SIGNATURE UShin Sulla	TITLE			ATE10/27/05
ZAZAMAI OAM	E-mail add		nsmith@energen.co	
Type or print name Nathan Smith				one No. 505.325.6800
For State Use Only	MEDITY O	ML & GAS INSPI	ector, dist. 🎒	NUV 0 7 2005
APPROVED BY	TITLE		DA	
Conditions of Approval, if any:				

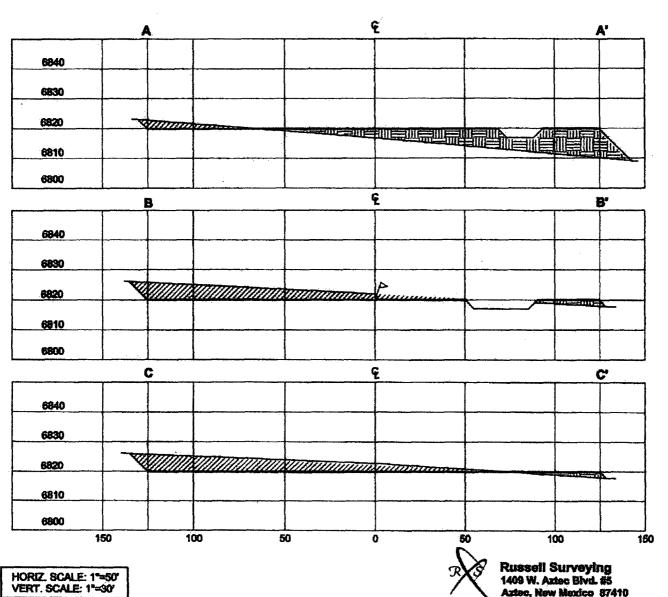


ENERGEN RESOURCES CORPORATION

FEDERAL 28-8-35 #1S
890" FSL & 1835" FEL
LOCATED IN THE SW/4 SE/4 OF SECTION
35, T28N, R8W, N.M.P.M.,
SAN JUAN COUNTY, NEW MEXICO
ELEVATION: 6822', NAVD 88



LATITUDE: 36°36'48"N LONGITUDE: 107°38'51"W DATUM: NAD 83



Operations Plan October 26, 2005

Federal 28-8-35 #1S

General Information

Location 1625' fnl, 985' fwl

swse S35, T28N, R08W

San Juan County, New Mexico

Elevations 6822' GL Total Depth 3404' (MD)

Formation Objective Basin Fruitland Coal

Formation Tops

San Jose	Surface
Nacimiento	1009'
Ojo Alamo Ss	2279'
Kirtland Sh	2414'
Fruitland Fm	2924'
Top Coal	3064'
Bottom Coal	3204'
Pictured Cliffs Ss	3209'
Total Depth	3404'

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 24.0 ppf 15.5 ppf	Grade
Surface	0'-300'	12 ¼"	8 5/8"		J-55 ST&C
Production	300'-3404'	7 7/8"	5 ½"		J-55 LT&C
Tubing	0'-3304'		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 266 ft³ of slurry, 100% excess to circulate to surface). WOC 12 hours. Pressure test surface casing to 1000 psi for 30 min.

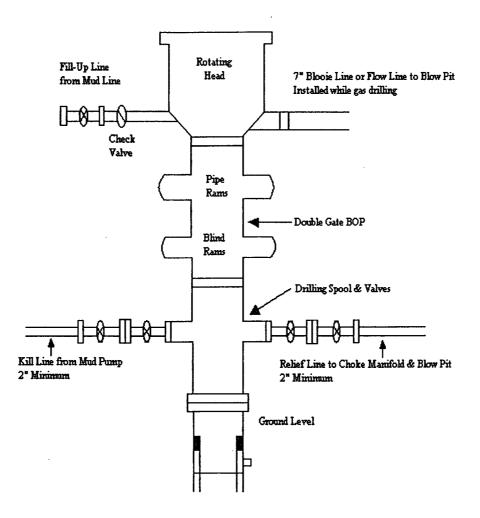
Production Casing: Before cementing, circulate hole at least 1 ½ hole volumes of mud and reduce funnel viscosity to minimum to aide in hole cleanout. Depending on wellbore conditions, cement may consist of 510 sks 65/35 with 6.0 % Bentonite, 2.0 % CaCl₂, 10 #/sk Gilsonite, and ½ #/sk Flocele (12.3 ppg, 1.96 ft³/sk) and a tail of 145 sks of Standard (Class B) cement with 5.0 #/sk Gilsonite, and ¼ #/sk Flocele (15.2ppg, 1.24 ft³/sk). (1180 ft³ of slurry, 100 % excess to circulate to surface).

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.

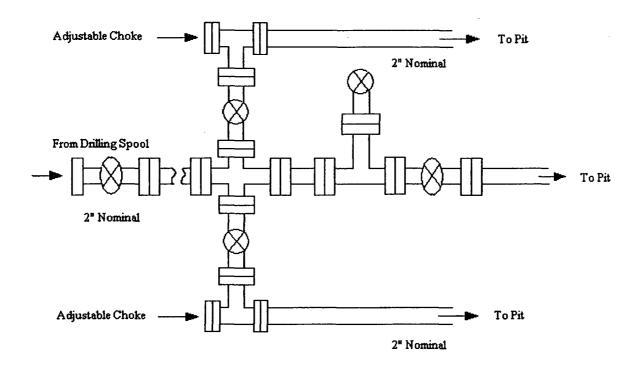
Energen Resources Corporation

Typical BOP Configuration for Gas Drilling



Energen Resources Corporation

Typical 2000 psi Choke Manifold Configuration



Choke manifold installed from surface to TD