Form 3 k60-3 (April 2004)

UNITED STATES 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. SF 078200		
la. Type of Work	X DRILL	☐ RE	ENTER	aggr ION 13		f Indian, Allotee	or Tribe Nam	e
1b. Type of Well	Oil Well	Gas Well Other	☐ Šir	2008 JAN 13 f ngle Zone Multiple Zon	1 0	Unit or CA Agree		
2. Name of Operato				- RECEI			,	
Ť	r ces Corporation	162928		070 FARMIN		ease Name and V		2 15/
3a. Address	roes Corporación	100-10-0	<u> </u>	3b. Phone No. (include area co		W.H. Riddle API Well No.	#8S .	300486
2198 Bloomfie	eld Highway Farm	<u>ington, New Mexi</u>	.∞ 87401	(505) 325-6800		30-045	- 334	22
	(Report location clearly o	and in accordance with a	ny State equi	rements)*	10. F	Field and Pool, or	Exploratory	
At surface 67	0' fnl, 1270' fw	L				Basin Fruit		
At proposed prod	zone				l l	Sec., T., R., M., o D S24, T30N		irvey of Area
14. Distance in miles a	and direction from nearest	town or post office*				12. County or Parish 13. State		
1	Approxi	mately 5.5 miles	north o	f Blanco	Sar	n Juan	NM	
15. Distance from prolocation to neare	oposed*			No. of Acres in lease	17. Spacing	g Unit dedicated t	o this well	
property or lease		1270'		315.36	3	15.36 w 1/	' 2	
18. Distance from pr	oposed location* rilling, completed,		19.1	Proposed Depth	20.BLM/I	BIA Bond No. or	i file	
applied for, on the		Approx. 400'	į	3141'		JM 270	7	
21 Elevations (Show	whether DF, KDB, RT, C	L, etc.	22.	22. Approximate date work will start*				
GL 6	314 '			04/15/06		1	14 days	
 A Drilling Plan A Surface Use P 	d by a registered surveyor lan (if the location is on N led with the appropriate F	ational Forest System La	ands, the	Bond to cover the operation ltem 20 above). Operator certification. Such other site specific in authorized officer.		·	•	·
25. Signuature			Name (Printed/Typed)		Date		
11/11	$\leq \mathcal{A}_{\lambda}$			an Smith			1/11	1/06
Title			, nau	Nacial Gildi				., 00
Drilling E	ngineer							
Approved by (Signat	itre)		Name (Printed/Typed)		Date	2/2	100
Title	Almo	AFM	Office	 		 		
conduct operations the		ify that the applicant ho	lds legal or e	quitable title to those rights in	the subject	lease which wou	d entitle the	applicant to
	on 1001 and Title 43 U.S tious or fraudulent stateme			any person knowlingly and willfur within its jurisdiction.	ılly to make	to any departmen	nt or agency	of the United
*(Instructions on pay	ge 2)				····			
							B WINT	2345
	*						. CHEOR	SINIS

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

DISTRICT III 1000 Rio Brezos Rd., Aztec, N.M. 87410

Submit to Appropriate District Office
State Lease - 4 Copies
2040 South Pachego
Santa Fe, NM 87505

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505

RECEIVED

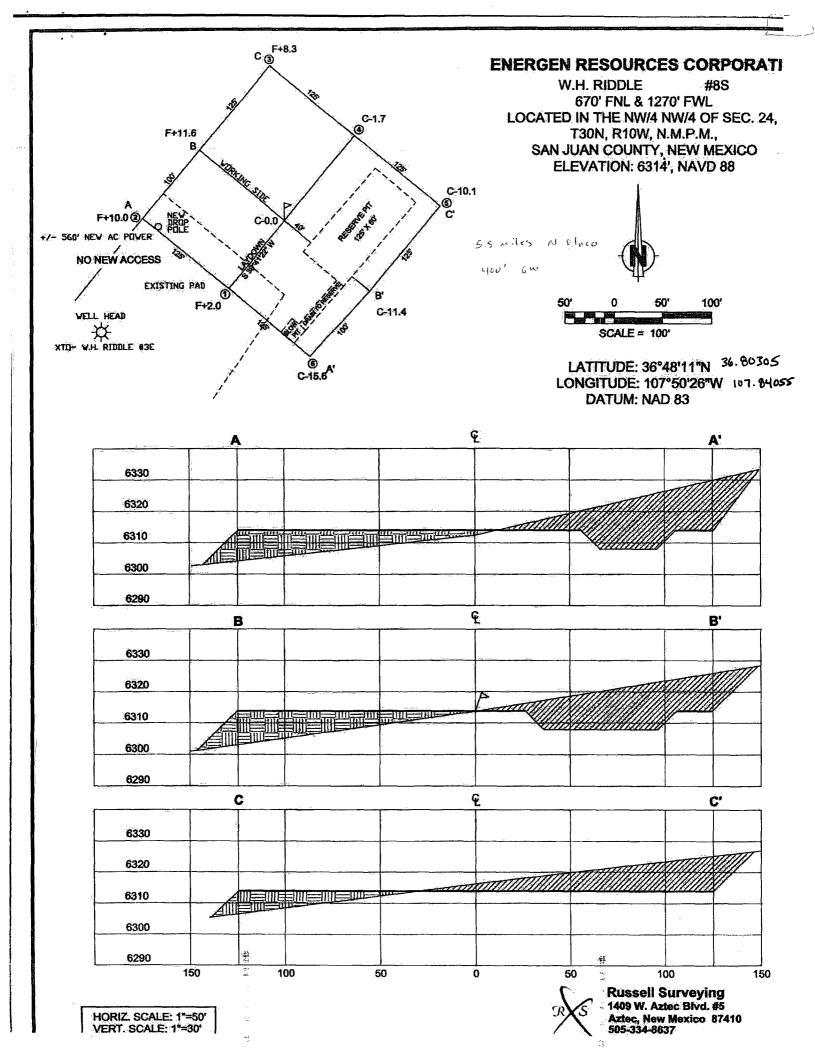
JAU SOULD PACHE	co, Santa	re, NM ordu	,								
		, V	VELL L	OCATIO	N AND	ACREAC	e dēdi	CATION PI	AT H		
30-04	Number 15-3	352	2	Pool Code	y /		Basin	Pool Nam			_
*Property C						erty Name			6.1	Well Number	
300	186				W.H. F	RIDDLE				88	-
OGRID No			·		*Oper	ator Name	······································			^a Elevation	
16292	28	<u>.</u>		ENERG	EN RESOL	IRCES COF	PORATION			6314	_
			· · · · · · · · · · · · · · · · · · ·		10 Surfa	ce Loca	tion				
UL or lot no.	Section 24	Township 30N	Range 1 OW	Lot Idn	Feet from 670'	the North	/South line	Feet from the 1270'	East/West line WEST	County SAN J	UAN
			11 Bott	om Hole	Location	n If Diff	rent Fro	om Surface			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from	the North	/South line	Feet from the	East/West line	County	
Dedicated Acre		(W/2)	is Joint or	[[rift]]	14 Consolida	tion Code		15 Order No.			
NO ALLOW	ABLE W	ILL BE A	SSIGNE	TO THI	S COMPL	ETION UI	TIL ALL	INTERESTS I	IAVE BEEN C	ONSOLIE	ATE

OR A NON-STANDARD HAIT HAS REEN APPROVED BY THE DIVISION

16		OR A NON-STAN	DARD UNIT HAS BI	EEN APPROVED BY	THE DIVISION
2641.98' (R) R3 2639.64' (M) R6	1/4 N 8914' W N 8913'52" 4 1270'		PRIM 1967	1	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and battef
N 0'26'00" E	5	6	7	8	Signature Nathan Snith Printed Name Drilling Engineer Title 12-21-05
FND 3 BLM 19	1 ₆ 7 ^{4*} вс 12	1 	10	9	Date 18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my bottef. AUGUST 12, 2005 Date of Supervision.
	0 erc~w	1.1. RIDDLE 30-10-24 #8 180' FSL, 950' FWL 14	15 #	16	Signature and Sear of Folganianal Surveyor:

Submit 3 Copies To Appropriate District	State of New N			Form C-103
Office District I	Energy, Minerals and Nat	ural Resources	THE TAXABLE	May 27, 2004
1625 N. French Dr., Hobbs, NM 87240			Way AP 195-	33522
District II 1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION		5. Indicate Type of	
District III	1220 South St. F		· · · · · · · · · · · · · · · · · · ·	
1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, NM	87505	STATE	FEE
District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505			6. State Oil & Gas	Lease No.
SUNDRY NOTIC	ES AND REPORTS ON WI	FILS	7 Lease Name or I	Unit Agreement Name:
(DO NOT USE THIS FORM FOR PROPO DIFFERENT RESERVOIR. USE "APPLIC	DSALS TO DRILL OR TO DEEPEN	NOR PLUG BACK TO A	W.H. Riddle	Jin Agreement Name.
PROPOSALS.) 1. Type of Well:			8. Well Number	
Oil Well Gas Well	Other		# 8	ac l
2. Name of Operator	Other	<u></u>	9. OGRID Number	
Energen Resources Corporat	-i on		1629	
3. Address of Operator	<u></u>		10. Pool name or V	
2198 Bloomfield Highway,	Farmington NM 87401		Basin Fruitland	
4. Well Location	Parimington, NY 07401	<u> </u>	1 basin Frunciana	
Unit Letter D:	670 feet from the N	orth line and	1270 feet from	n the <u>West</u> line
Section 24	Township 30N	Range 10W	NMPM	County San Juan
The Park of the Control of the Contr	11. Elevation (Show whether	er DR, RKB, RT, GR, 6 314' GL	etc.)	
Pit or Below-grade Tank Application	<u> </u>	214 (81)		
				>0501
Pit type <u>Drill</u> Depth to Groundwater				ce water _>250'
Pit Liner Thickness: 12 mil	Below-Grade Tank: Volum	iebbls; Construct	tion Material	
NOTICE OF INTIPERFORM REMEDIAL WORK TEMPORARILY ABANDON PULL OR ALTER CASING	PLUG AND ABANDON CHANGE PLANS MULTIPLE	REMEDIAL WORK COMMENCE DRILL CASING TEST AND	LING OPNS.	ALTERING CASING PLUG AND ABANDONMENT
	COMPLETION	CEMENT JOB	-	
OTHER: Build drilling pit	X	OTHER:		
13. Describe proposed or completed of starting any proposed work). or recompletion.				
Energen Resources plans t issued on November 1,2004 accordance with BIM and "	. Energen anticipates th	he submittal of a (
I hereby certify that the information a grade tank has been/will be constructed or				
SIGNATURE Value	Single -			DATE 12/27/05
	-	manife addisons.		
Type or print name Nathan Smith	\mathcal{A}	E-mail address:	nsmith@energen. Telep	com hone No. 505.325.6800

APPROVED BY_______Conditions of Approval, if any:



Operations Plan

January 12, 2006

W.H. Riddle #8S

General Information

Location 670' fnl, 1270' fwl

nwnw S24, T30N, R10W San Juan County, New Mexico

Elevations 6314' GL Total Depth 3141' (MD)

Formation Objective Basin Fruitland Coal

Formation Tops

Nacimiento	Surface
Ojo Alamo Ss	1671'
Kirtland Sh	1801'
Fruitland Fm	2576'
Top Coal	2756'
Bottom Coal	2941'
Pictured Cliffs Ss	2946'
Total Depth	3141'

Drilling

The 12 ¼" 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

Surveys: 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'-3141'	7 7/8"	5 ½"	15.5 ppf	J-55 LT&C
Tubing	0'-3080'		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 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 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.

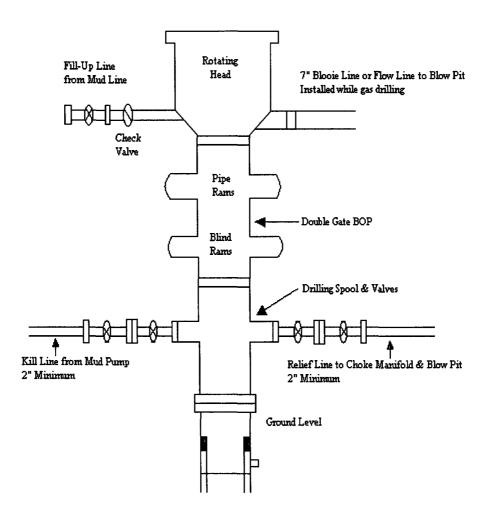
Production Casing: Before cementing, circulate hole at least 1 ½ hole volumes of mud and reduce funnel viscosity to minimum to aide in hole cleanout. Depending on wellbore conditions, cement may consist of 475 sks 65/35 with 6.0 % Bentonite, 2.0 % CaCl₂, 10 #/sk Gilsonite, and ½ #/sk Flocele (12.3 ppg, 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). (1111 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

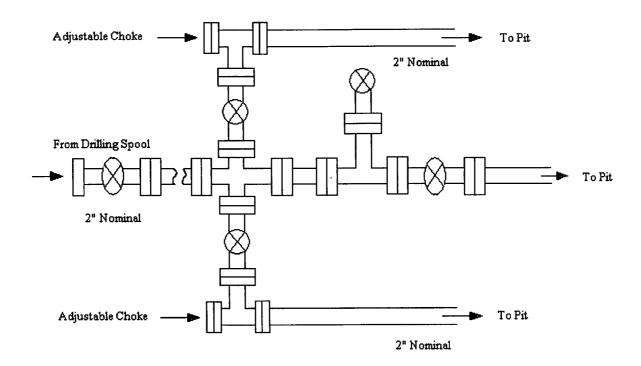


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Energen Resources Corporation

Typical 2000 psi Choke Manifold Configuration



Choke manifold installed from surface to TD

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