ถึงคัก 316ป-3 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

APR 10 2009

-RECEIVED

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

APPLICATION FOR PERMIT TO DRIL	L OR RE	ENTER reau of Land Ma	nage m	Lease Serial No. USA NMNM 030	9374	
a. Type of Work X DRILL REEN	TER		6	. If Indian, Allotee or	Tribe Name	
b. Type of Well Oil Well Gas Well Other	Sing	le Zone Multiple Zone	e 7	. Unit or CA Agreem	ent Name and No.	
. Name of Operator			8	Lease Name and We	ell No.	
Energen Resources Corporation				CJ Holder #	200	
a. Address 2010 Afton Place Farmington, New Mexico 87401		o. Phone No. (include area co (505)325-6800	ode) 9	ADI Wall Mo	-34949	
Location of Well (Report location clearly and in accordance with any	State equire	ments)*	10	Field and Pool, or E	xploratory	
At surface 1779' FNL 1452' FWL			11	Basin Fruitla Sec., T., R., M., or	Blk. and Survey or Area	
At proposed prod. zone					28N, R13W NMPM	
4. Distance in miles and direction from nearest town or post office*			- 1	.County or Parish	13. State	
5 miles south southwest of	<u>f Farmin</u>	gton. NM		an Juan	NM	
5. Distance from proposed* location to nearest property or lease line, ft. 700'	16.No	o. of Acres in lease	17.Space	ing Unit dedicated to	this well	
property or lease line, ft. 700' (Also to nearest drg. unit line, if any)		320		W/2		
Distance from proposed location* to nearest well, drilling, completed,	19. Pro	oposed Depth	20. BLM	LM/BIA Bond No. on file		
applied for, on this lease, ft. 1000		1789' ,	.'			
l. Elevations (Show whether DF, KDB, RT, GL, etc.	22.A	pproximate date work will star	·t*	23. Estimated dura	tion	
6040' GL	APRIL 2009		15 days			
This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4	24. Attac			DRILLING OPERA	ATIONS AUTHORIZED AF	
he following, completed in accordance with the requirements of Onshore O	- 1			PCUD.II	11 22 10	
Well plat certified by a registered surveyor. A Drilling Plan.]	 Bond to cover the operation of the Bond to cover the operation. 	ons unles	s covered by an existi OIL COM	ng bond on file (see	
A Surface Use Plan (if the location is on National Forest System Lands,	, the	5. Operator certification.				
SUPO must be filed with the appropriate Forest Service Office).	10	Such other site specific inf	formation	and/or plans as may b	be required by the	
		BLM		nis	T. 3	
5. Signature	Name (Pr	inted/Typed)		Date		
for C	JASON	KINCAID			02/09/09	
itle /				,		
Drilling Engineer						
pproved by (Stgnautre) May lee Lester	Name (Pr	inted/Typed)		Date	20/2010	
itle	Office			//	20/4 1/0	
AFN		FFO				
opplication approval does not warrant or certify that the applicant holds lead to operations thereon. Onditions of approval, if any, are attached.	egal or equ	itable title to those rights in t	he subjec	t lease which would	entitle the applicant to	
tle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crates any false, fictitious or fraudulent statements or representations as to a	rime for any	person knowlingly and willful its jurisdiction.	lly to mak	e to any department of	or agency of the United	

(Continued on page 2)

SEE ATTACHED FOR CONDITIONS OF APPROVAL

JUL 2 8 2010



NOTIFY AZTEC OCD 24 HRS. PRIOR TO CASING & CEMENT

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

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

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

DISTRICT III

State of New Mexico

Form C-102 Revised October 12, 2005

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION APR Submit [t] Appropriate District Office 1220 South St. Francis Dr. Fee Lease - 3 Copies
Santa Fe NIM 87505 Bureau of Land Management

State Lease - 4 Copies

Santa Fe. NM 87505

Farmington Field Office

AMENDED REPORT

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

DISTRICT II 1301 W. Grand Avenue , Artesia. NM 88210

WELL LOCATION AND ACREAGE DEDICATION PLAT

1API Number 30.045 - 34949	⁹ Pool Code 71629	⁸ Pool Name FC
Property Code	[©] Property Nam. CJ HOLDE	i
162928	*Operator Nam ENERGEN RESOU	!

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot idn	Feet from the	North/South line	Feet from the	East/West line	County
С	27	28-N	13-W		179161	NORTH	1452'	WEST	SAN JUAN
	·····		·		'				<u> </u>

11 Rottom Hole Location If Different From Surface

	Bottom Hole Location if Different From Surface								
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1		•			1	·		i i	
12 Dedicated Acres	Dedicated Acres 1s Joint or Infill 1s Consolidation Code 1s Order No.								
320	WI	2		·					
Jav	101	^		i					
1	_i	1		i					

No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

16 S89*54'22"W	5279.05'(M) 50 2.1/2 BRASS CAP GLO 1913		OPERATOR CERTIFICATION
PROP.	N89*52'W 80.08 Chains (R) ENERGEN RESOURCES CJ HOLDER #200 LAT. 36.63729 N LONG. 108.21062 W		I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom 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
1452, W 80 Chains (R)	- LUNG. 106.21062 W		Signature Date Signature Date Printed Name
N° 62' 10°0N N° 62' 10°0N	27	,	
2642.28°(M) ED 71/5 ED 1811 ED 71/5 ED			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 belief. Date of survey
M. 82, 20.00 M			Signature and Seal of Professional Surveyor:

2/10/2009



OPERATIONS PLAN

GENERAL INFORMATION

Surface Location 179 FNL 1452 FEL S-T-R C Sec.27-T28N-R13W County, State San Juan, New Mexico

Elevations 6040' GL
Total Depth 1789' +/- (MD)
Formation Objective Basin Fruitland Coal

FORMATION TOPS

Nacimiento	Surface
Ojo Alamo Ss	399'
Fruitland Fm	969'
Top Coal	1424'
Bottom Coal	1584'
Pictured Cliffs	1589'
Total Depth	1789'

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.



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	1789	7-7/8"	5-1/2"	15.5 lb/ft	J-55 LT&C
Tubing	0	1789		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 ¼ #/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.

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 155 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). (470 ft³ of slurry to circulate to surface, 50% 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.

DRILLING CONDITIONS OF APPROVAL

Operator:

Energen Resources

Lease No.:

NMNM-0309374

Well Name:

CJ Holder #200

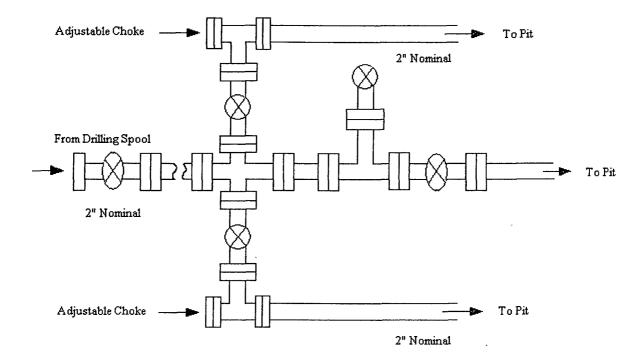
Well Location:

Sec. 27, T28N, R13W; 1179' FNL & 1452' FWL

1. Since no BOPE test pressures were proposed, it is recommended that Energen Resources test the BOP and related equipment according to Onshore Order No. 2 *Minimum Standards and Enforcement Provisions For Well Control Equipment Testing.*

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

