Form 3160-3 (August 1999)

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

2005 NOV 25 AM 11

FORM APPROVED OMB No. 1004-0136 Expires November 30, 2000

APPLICATION FOR PERMIT TO DRILL OR REENTERFARMINGTON

6. If Indian, Allottee or Tribe Name

1a. Type of Work: X DRILL	REENTER			7. If Unit or CA Agreement, Name and No.	
b. Type of Well: Oil Well Gas Well Other	Single Zone	Multiple Zone	8. Lease Name and Well No C. J. Holder		
2. Name of Operator ENERGEN RESOURCES	9. API Well No. 30-045-33461				
3A. Address c/o Walsh Engineering,7415 E. Main, Farmington, NM 8740	10. Field and Pool, or Exploratory Basin Fruitland Coal				
At surface 1560' FSL and 765' FWL At proposed prod. Zone 14. Distance in miles and direction from nearest town or post office.			11. Sec., T., R., M., or Bik, a (1) (4) Sec. 8, T28N, 12. County or Parish	•	
4 miles south of Fai	San Juan	NM_			
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No. of Acres in lease 279.52 +	17. Spacing Unit dec 279.5	dicated to this well 2 acres (Entire Section	on 8)	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 3700'	19. Proposed Depth 1825' +/-	20. BLM/BIA Bond	No. on file		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6002' GL	22. Approximate date work w February 1				

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- 1. Well plat certified by a registered surveyor.
- 2. A Drilling Plan.
- 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office.
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- 5. Operator certification.

GENERAL REQUIREMENTS

6. Such other site specific information and/or plans as may be required by the authorized office.

25. Signature Name (Printed/Typed) 11/23/2005 Paul C. Thompson, P.E. Title Agent Approved by (Signature Name (Printed/Typed) Title Office

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on reverse)



District I PO Box 1980, Hobbs, NM 88241-1980 District II PO Drawer DD, Artesia, NM 88211-0719

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

AMENDED REPORT

District III PO Box 2088
1000 Rio Brazos Rd., Aztec, NM 87410

DIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

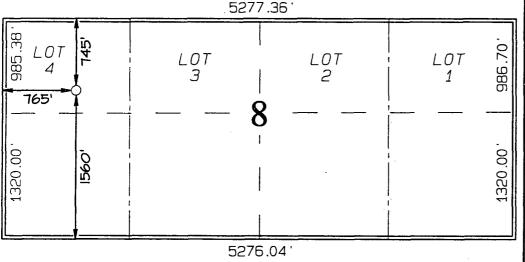
Fee Lease - 3 Copies

District IV PO Box 2088, Santa Fe, NM 87504-2088

WELL LOCATION AND ACREAGE DERICATION PLAT

MELL FOCALION AND ACHEAGE AFTIGALIFIANT FEW									
'API Number Pool Cod			le	O (O F ANN POO) Name					
<i>30-0</i> 45-33461 71629)	BASIN FRUITLAND COAL				
¹Property Code			Property Name				*Well Number		
21180				C.J. HOLDER				1025	
'OGRID No.	Operator Name						*Elevation		
162928	ENERGEN RESOURCES CORPORATION							6005.	
¹⁰ Surface Location									
Ut or lot no. Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West	t line	County
L 8	28N	13W		1560	SOUTH	765	WES	ST	SAN JUAN
¹¹ 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	t line	County
				<u> </u>					
¹² Dedicated Acres				¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.			
279.52 Acres - (Entire Section)									

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

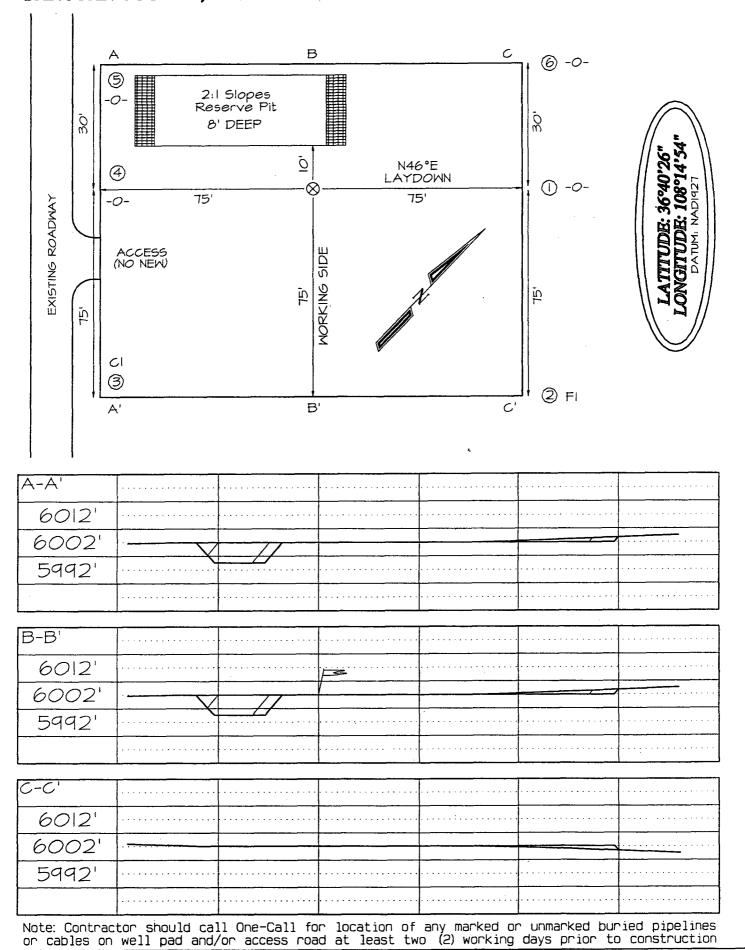


THE BIVISION
17 OPERATOR CERTIFICATION
I hereby certify that the information
contained herein is true and complete to the best of my knowledge and belief
Taul C. Thomps -
Signature
Boug Thomas TAUC C. /140 m750N
Printed Name AGEXT
D rilling Superintendan t
Title /
11/23/05
Date
18 SURVEYOR CERTIFICATION
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 belief.
Date of Survey: MARCH 1, 2004
Signature and Seal of Professional Surveyor
, C. FO
SEN C. EDWARDS
SP CH METS 8
(35269) 5
\ \alpha \
ADDESTONAL OF

Certificate Number

15269

ENERGEN RESC RCES CORPORATION C.J. HC DER #102S 1560' FSL & 765' FWL, SECTION 8, T26N, R13 v, NMPM SAN JUAN COUNTY, NEW MEXICO GROUND ELEVATION: 6002'



ENERGEN RESOURCES CORP. OPERATIONS PLAN C. J. Holder #102S

I. Location: 1560' FSL & 765' FWL

Date: November 23, 2005

Sec 8 T28N R13W

San Juan County, NM

Field: Basin Fruitland Coal Elev: GL 6002'

Surface: Bureau of Land Management

Minerals: Federal SF 077968

II. Geology: Surface formation Nacimiento

Α.	Formation Tops	Depths
	OjO Alamo	204'
	Kirtland	326 ′
	Fruitland	1294'
	Pictured Cliffs	1629'
	Total Depth	1825′

Estimated depths of anticipated water, oil, gas, and other mineral bearing formations which are expected to be encountered:

Water and gas - 1294' and 1629'.

- B. Logging Program: Induction/GR and density logs at TD.
- C. No over pressured zones are expected in this well. No $\rm H_2S$ zones will be penetrated in this well. Max. BHP = 600 psig.

III. Drilling

- A. Contractor:
- B. Mud Program:

The surface hole will be drilled with a fresh water mud.

The production hole will be drilled with a fresh water polymer mud. The weighting material will be drill solids or if conditions dictate, barite. The maximum mud weight expected is 8.5 ppg.

C. Minimum Blowout Control Specifications:

Double ram type or annular type 2000 psi working pressure BOP with a rotating head. See the attached exhibit #1 for details on the BOP equipment. All ram type preventers and related equipment will be hydraulically tested at nipple-up and after any use under pressure to 1000 psi.

C. Cont.

The blind rams will be hydraulically activated and checked for operational readiness each time pipe is pulled out of the hole. All checks of the BOP stack and equipment will be noted on the daily drilling report. The BOP equipment will include a kelly cock, floor safety valve, and choke manifold all rated to 2000 psi.

IV. Materials

A. Casing Program:

Hole Size	Depth	Casing Size	Wt. & Grade
8-3/4"	120'	7"	20# K-55
6-1/4"	1825′	4-1/2"	10.5# K-55

- B. Float Equipment:
- a) Surface Casing: None
- b) Production Casing: 4-1/2" cement guide shoe and self fill insert float collar. Place float one joint above shoe. Five centralizers spaced every other joint above shoe and five turbolizers every fifth joint from the top of the well.

V. Cementing:

Surface casing: 7" - Use 50 sx (59 cu. ft.) of Cl "B" with $\frac{1}{4}$ #/sk celloflake and 2% CaCl₂ (Yield = 1.18 cu. ft./sk; slurry weight = 15.6 PPG). 100% excess to circulate cement to surface. WOC 12 hours. Pressure test surface casing to 600 psi for 30 min.

Production Casing: 4-1/2" - Before cementing circulate hole with at least 1-1/2 hole volumes of mud. Precede cement with 30 bbls of fresh water. Lead with 125 sx (258 cu.ft) of Cl "B" with 2% metasilicate and 4/4 */sk celloflake. (Yield = 2.06 cu.ft./sk; slurry weight = 12.5 PPG). Tail with 100 sx (118 cu.ft.) of Cl "B" with 4/4 */sk celloflake (Yield = 1.18 cu. ft./sk; slurry weight = 15.6 PPG). Total cement volume is 376 cu.ft. (100% excess to circulate cement to surface).

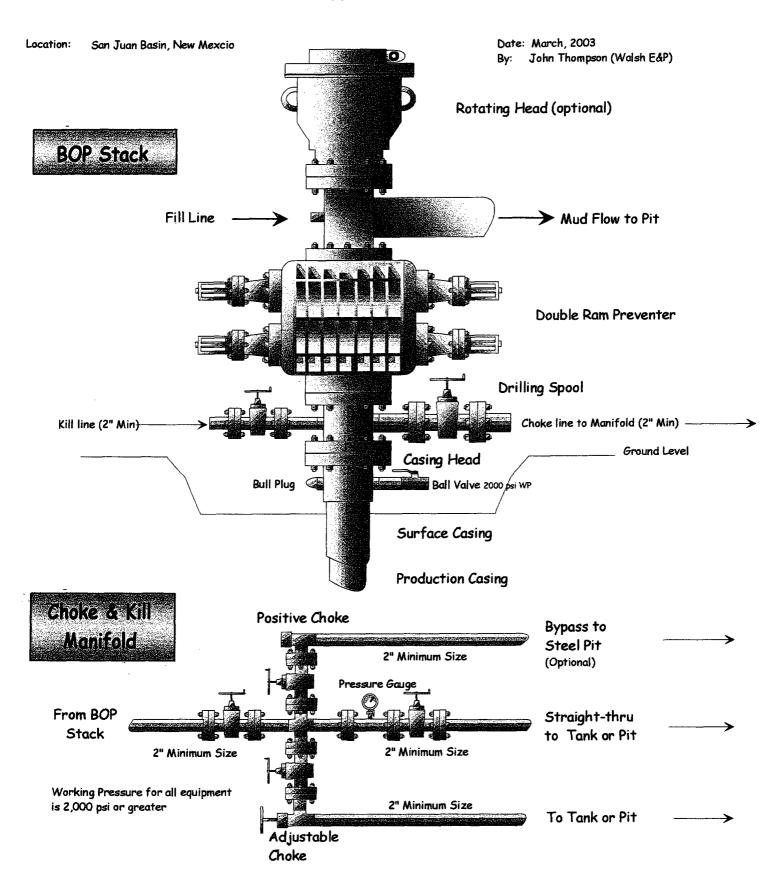
Paul C. Thompson, P.E.

Energen Resources, Inc.

Well Control Equipment Schematic for 2M Service

Attachment to Drilling Technical Program

Typical BOP setup



ANNULAR PREVENTER

