Form 3160-3 (August 1999) THE INTERIOR 70 Farmington, NM

7M3 APR 24 PM 3: 43

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

5. Lease Serial No.

SF-077968

6. If Indian, Allottee or Tribe Name

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APPI IC	'ATION FOR	PERMIT TO	DRILL	OR REFNTER

MANAGEMENT

7. If Unit or CA Agreement, Name and No. 1a. Type of Work: X DRILL REENTER 8. Lease Name and Well No. b. Type of Well: Oil Well Gas Well Other X Single Zone Multiple Zone C. J. Holder #100 9. API Well No. 2. Name of Operator **ENERGEN RESOURCES CORPORATION** 10. Field and Pool, or Exploratory 3b. Phone No. (include area code) 3A. Address **Basin Fruitland Coal** (505) 327-4892 c/o Walsh Engineering,7415 E. Main, Farmington, NM 87402 11. Sec., T., R., M., or Blk, and Survey or Area 4. Location of Well (Report location clearly and in accordance with any State requirements.*) At surface 705' FSL and 1825' FWL Sec. 9, T28N, R13W At proposed prod. Zone 14. Distance in miles and direction from nearest town or post office* 4 miles south of Farmington, NM **NM** San Juan 15. Distance from proposed*
location to nearest
property or lease line, ft.
(Also to nearest drig. unit line, if any) 17. Spacing Unit dedicated to this well 16. No. of Acres in lease 705' 277.68+ 277.68 acres (Entire Section 9) Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 20. BLM/BIA Bond No. on file 19. Proposed Depth 1500' 1865' +/-21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 6014' GL June 1, 2003 1 week

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, th SUPO shall be filed with the appropriate Forest Service Office.
- 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- 5. Operator certification.
- Such other site specific information and/or plans as may be required by the authorized office.

Paul C. Thomps -	Name (Printed/Typed) Paul C. Thompson, P.E.	Date 4/24/03
Title		
	Agent	
Approved by (Signature), (Un lie w	Name (Printed/Typed)	Date 6-29-05
Title AFM	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)

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

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

'API Number

1825

1320

277.68 ACRES - (Entire Section)

State of New Mexico Energy, Minerals & Natural Resources Department

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

Form C-102 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office

Pool Name

State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-045=	3/65D		71629		BAS	AL			
'Property Code			- \	Property	Property Name			⁵Well Number	
21180	80				C.J. HOLDER			100	
'OGRID No.	'OGRID No.				*Operator Name			'Elevation	
162928		ENERGEN RESOURCES CORPORATION						6014	
			1	¹⁰ Surface	Location		<u> </u>		
UL or lot no. Section,	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	st line	County
Й д	28N	13W	į į	705	SOUTH	1825	WE	ST	SAN JUAN
	11 B	ottom	Hole L	ocation I	f Different	From Surf	ace		
UL or lot no. Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	st line	County
12 Dedicated Acres				¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS JEED APPROVED BY THE DIVISION

5294.52 LOT LOT LOT LOT 986. 3 4 2 1

105

Pool Code

070 Farmington, 058

2003 VBB 54 BW 3: #3

HECEINED

OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

Taul Signature

20

955

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320.

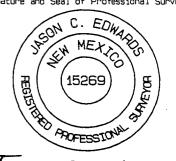
YAML C. Printed Name AGENT Title Date

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.

Survey Date: FEBRUARY 14, 2003

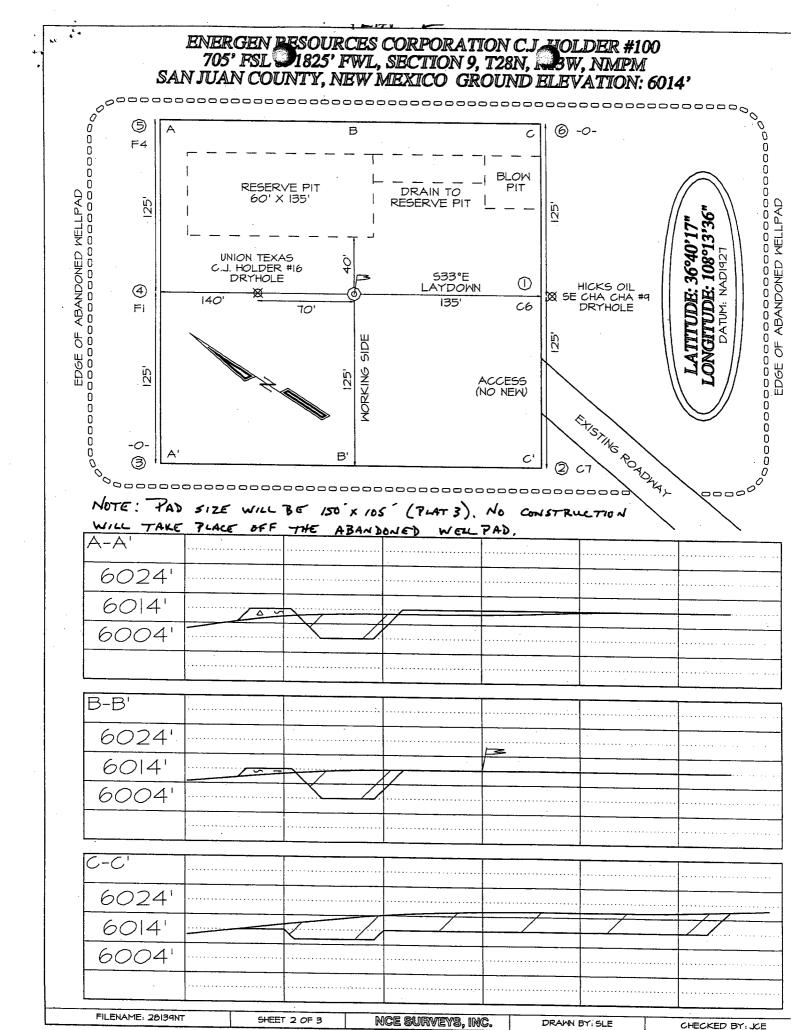
Signature and Seal of Professional Surveyor



DWARDS

Certificate Number

15269



ENERGEN RESOURCES CORP. OPERATIONS PLAN C. J. Holder #100

I. Location: 705' FSL & 1825' FWL

Date: April 24, 2003

Sec 9 T28N R13W

San Juan County, NM

Field: Basin Fruitland Coal

Elev: GL 6014'

Surface: Bureau of Land Management

Minerals: Federal SF 077968

II. Geology: Surface formation Nacimiento

Α.	Formation Tops	Depths
	OjO Alamo	241'
	Kirtland	361′
	Fruitland	1321'
	Pictured Cliffs	1666'
	Total Depth	1865 ′

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

Water and gas - 1321' and 1666'.

- 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. J. Holder #100
Operations Plan
Pg #2

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"	1865 ′	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 other joint from the top of the well.

V. Cementing:

Surface casing: 7" - Use 50 sx (59 cu. ft.) of Cl "B" with $\frac{1}{2}$ #/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 130 sx (268 cu.ft) of Cl "B" with 2% metasilicate and $\frac{1}{4}$ #/sk celloflake. (Yield = 2.06 cu.ft./sk; slurry weight = 12.5 PPG). Tail with 100 sx (118 cu.ft.) of Cl "B" with $\frac{1}{4}$ #/sk celloflake (Yield = 1.18 cu. ft./sk; slurry weight = 15.6 PPG). Total cement volume is 386 cu.ft. (100% excess to circulate cement to surface).

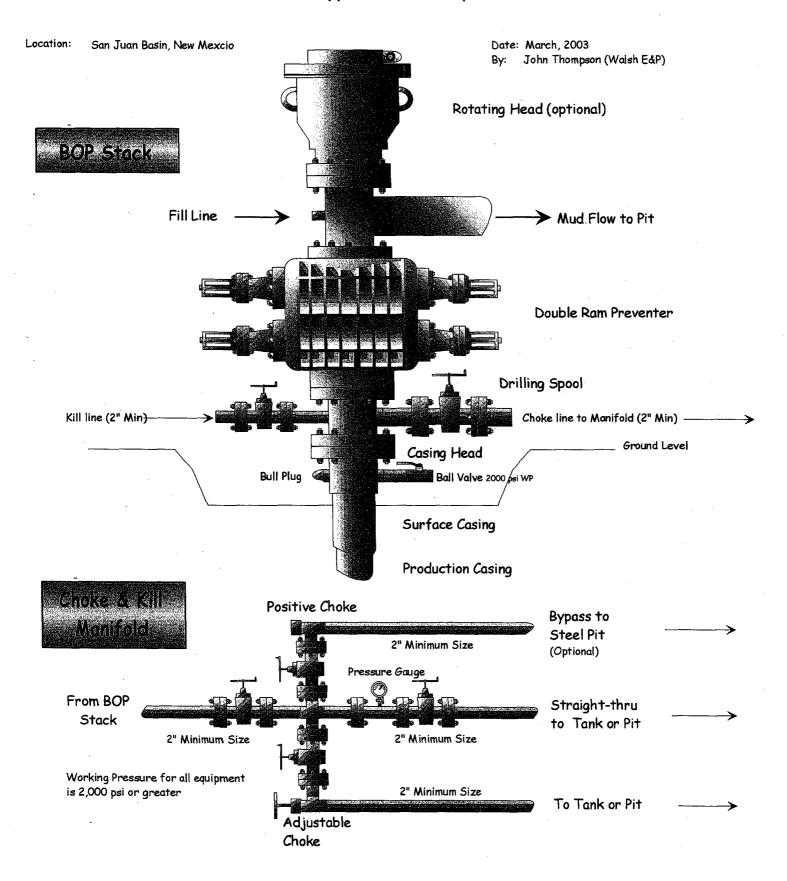
Paul C. Thompson, P.E.

Energen Resources, Inc.

Well Control Equipment Schematic for 2M Service

Attachment to Drilling Technical Program

Typical BOP setup



2

ANNULAR PREVENTER

