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MAY 2008		RFCEIVE	ED		
Form 31603 DN COLLEGE	ATES	2003 AFR 25 PM	Expires November :	0136	
BUREAU OF LAND M.		070 Farmingto	SF-01171.		
APPLICATION FOR PERMIT T	O DRILL OR REE	NTER	6. If Indian, Allottee or Tribe	e Name	
la. 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 Zo	one Multiple Zone	8. Lease Name and Well No Richardson		
2. Name of Operator ENERGEN RESOURCES	S CORPORATION		9. API Well No. 300453	31649	
3A. Address	3b. Phone No. (inclu	de area code)	10. Field and Pool, or Explor	10. Field and Pool, or Exploratory	
c/o Walsh Engineering,7415 E. Main, Farmington, NM 8740	Basin Fruitlan	Basin Fruitland Coal			
4. Location of Well (Report location clearly and in accordance w	rith any State requiremen	ts. *)	11. Sec., T., R., M., or Blk, a	and Survey or Area	
At surface 1980' FNL and 660' FEL At proposed prod. Zone			H Sec. 11, T27N,	, R13W	
14. Distance in miles and direction from nearest town or post offi	ce*		12. County or Parish	13. State	
9 miles south of Fa	rmington, NM		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 320+	ease 17. Spacing Uni	t dedicated to this well 320 acres (North half)		
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 950'	19. Proposed Depth 1520 +/-				
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate da	te work will start*	23. Estimated duration		
5854' GL	Ju	ne 1, 2003	1 week		
	24. Attach	ments			
The following, completed in accordance with the requirements of	Onshore Oil and Gas Or	der No. 1, shall be attached t	o this form:	·-····································	
1. Well plat certified by a registered surveyor.	4,	Bond to cover the operation	ns unless covered by an existing bo	nd on file (see	
2. A Drilling Plan.		item 20 above).			
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- A Surface Use Plan (if the location is on National Forest System Lands, th SUPO shall be filed with the appropriate Forest Service Office.
- Operator certification.
- Such other site specific information and/or plans as may be required by the authorized office.

25. Signature	Name (Printed/Typed)	Date
- Paul C. Thomas -	Paul C. Thompson, P.E.	4/25/03
Title	:	
	Agent	
Approved by (Signature)	Name (Printed/Typed)	Date
DIM anlie cost	_	5/9/66
Title	Office	
APM	i TTO	

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 1001and 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)

M COO

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 Depart Form C-102

Revised February 21, 1994
Instructions on back
Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

Certificate Number

15269

OIL CONSERVATION DIVISEON CENTERS

PO Box 2088

Santa Fe, NM 87504-2088

APR 25 PM 3: #2

AMENDED REPORT

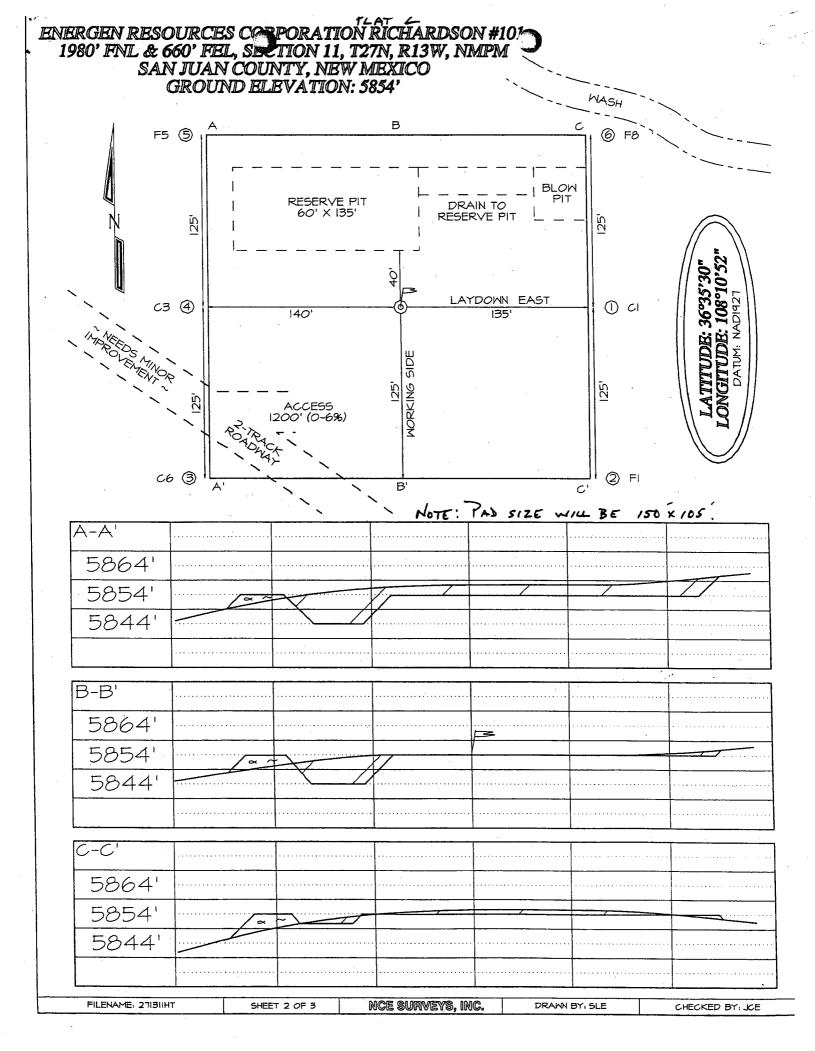
District IV PO Box 2088, Santa Fe, NM 87504-2088

District III 1000 Rio Brazos Rd. Aztec, NM 87410

070 Farmington, NM

						070	Famingion,	INIVI		
			WELL	LOCATI	ON AND AC	CREAGE DEDI	CATION PL	AT ,		
'API Number					³Pool Nam	e .				
30-04	15-3	1649		71629)	BAS	IN FRUITL	AND COAL		
¹ Property					*Property	Name		* W	ell Number	
2137	10		,		RICHAF	IDSON			101	
OGRID N	No .				*Operator	Name		9 (Elevation	
16292	18		Ε	ENERGE		ES CORPORAT	TION		5854	
		1		• •	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	
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	L	11 F	Bottom	Hole L	ocation I	l f Different	From Surf	l	1.	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
	Ì					,				
12 Dedicated Acres					¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.		<u>'</u>	
	320).O Acre	s — (N	/2)	Y					
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5282.641



ENERGEN RESOURCES CORP. OPERATIONS PLAN Richardson 101

I. Location: 1980' FNL & 660' FEL

Date: April 25, 2003

Sec 11 T27N R13W San Juan County, NM

Field: Basin Fruitland Coal

Elev: GL 5854'

Surface: Navajo Nation Minerals: Federal SF 077972

II. Geology: Surface formation _ Nacimiento

Α.	Formation Tops	Depths
	OjO Alamo	46'
	Kirtland	146'
Fruitland		1126'
	Pictured Cliffs	1321'
	Total Depth	1520 ′

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

Water and gas - 1126' and 1321'.

- B. Logging Program: Induction/GR and density logs at TD.
- C. No over pressured zones are expected in this well. No 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"	1520 ′	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 $\frac{1}{4}$ #/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 100 sx (206 cu.ft) of Cl "B" with 2% metasilicate and % #/sk celloflake. (Yield = 2.06 cu.ft./sk; slurry weight = 12.5 PPG). Tail with 100 sx (118 cu.ft.) of Cl "B" with % #/sk celloflake (Yield = 1.18 cu. ft./sk; slurry weight = 15.6 PPG). Total cement volume is 324 cu.ft. (100% excess to circulate cement to surface).

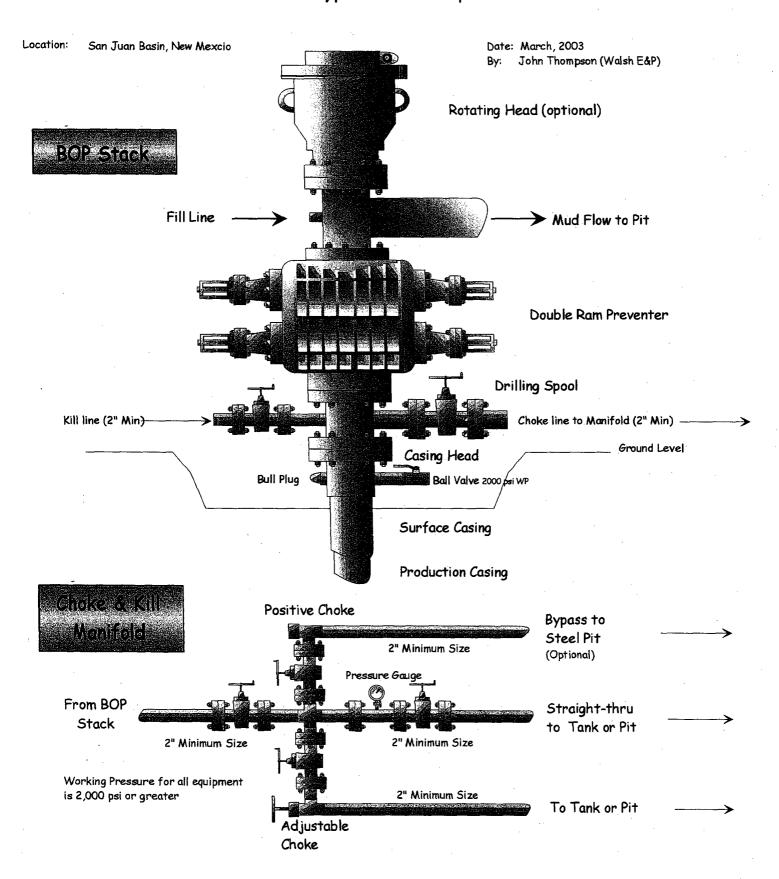
Paul C. Thompson, P.E.

Energen Resources, Inc.

Well Control Equipment Schematic for 2M Service

Attachment to Drilling Technical Program

Typical BOP setup



ANNULAR PREVENTER

