·	•				
276252		\wedge			
10, 23	• •			ED NOS APA FORMAPPRO	× 9/2//2-
7162		$\sum_{i} \int_{i} dx_{i}$	DECENT	TO DOS APT	2/1/20/03
9	, ,	D'	MEUEIV	El mappos	led)
Form 3160-3		ANTE 23 24 25 750	`	FORM APPRO	OVED
(August 1999)		Day of	PAP SEP 26 AM		
	UNITED STAT	VES MAL SI		Expires November	30, 2000
	DEPARTMENT OF TH	EINTERIOR 3	070 Farmington	5. Lease Serial No.	
	BUREAU OF LAND MAN	NAGEMENT	- Planingio	Y NIV SF-07796	58
ADDITIO	ATION FOR DEDMIT TO	BOILL OF DEENTE	10 / M	6. If Indian, Allottee or Tril	oe Name .
/ APPLIC	CATION FOR PERMIT TO	DRILL OR REENIE	K c. 1/2		
1a. Type of Work: X DRILL	□ RE	ENTER	27	7. If Unit or CA Agreement	t, Name and No.
ia. Type of Works 21 21a22			37.4		
		Linear Line		8. Lease Name and Well N	0.
b. Type of Well: Oil Well	Gas Well Other	X Single Zone	Multiple Zone	C. J. Holder #101	
2. Name of Operator				9. API Well No.	0
1 / .	NERGEN RESOURCES	CORPORATION		30045	31919
3A. Address		3b. Phone No. (include are	ea code)	10. Field and Pool, or Exploratory	
c/o Walsh Engineering,7415 E	. Main, Farmington, NM 87402	(505) 32	27-4892	Basin Fruitlar	nd Coal
4. Location of Well (Report location	on clearly and in accordance with	any State requirements.*)		11. Sec., T., R., M., or Blk,	and Survey or Area
At surface 770' FNL	and 1800' FEL NWI	NE		12	
At proposed prod. Zone	·			D Sec. 16, T28N	
14. Distance in miles and direction	•			12. County or Parish	13. State
15. Distance from proposed*	4 miles south of Farm	16. No. of Acres in lease	117 Sussing Unit de	San Juan edicated to this well	NM
location to nearest	770'	16. No. of Acres in lease	17 Spacing Unit de	edicated to this well	
property or lease line, ft. (Also to nearest drig. unit line,		320 +		320 Acres (North Half)	1
18. Distance from proposed location to nearest well, drilling, comp	on*	19. Proposed Depth	20. BLM/BIA Bone		<u></u>
to nearest welf, drilling, comp applied for, on this lease, ft.	leted, 2850'	1920' +/-			
	·				
21. Elevations (Show whether DF,	· ·	22. Approximate date wor		23. Estimated duration	_
6048	GL	As soon as per		1 week	
		24. Attachment	ts		
The following, completed in accord	dance with the requirements of On	shore Oil and Gas Order No	o. 1, shall be attached to th	is form:	
		•			.
1. Well plat certified by a register	ed surveyor.	4. Bond	to cover the operations u	EE ATTACHED FO	on file (see
2. A Drilling Plan.		Item 2	0 above).	EE ATTACHEMATO DITIONS OF APPR	OAM
3. A Surface Use Plan (if the locat	ion is on National Forest System I	ands, th 5. Operate	or certification.	Dillong 2.	
SUPO shall be filed with the ap	propriate Forest Service Office.	6. Such o	ther site specific informati	ion and/or plans as may be requ	ired by the
		authori	zed office.		
25. Signature		Name (Printed/T)	ped)	Date	
taul C.	Thomas		aul C. Thompson,	P.E.	9/24/03
Title	7700-910				
1		Agent			
Approved by (Signature)	11 -	Name (Printed/T)	ped)	Date	
- Ill (antee ws				<u>ر</u> سک	23-05
Title	1 -11	Office	1000		
' A	EM	i	170		
Application approval does not war	rant or certify that the applicant ho	olds legal or equitable title to	those rights in the subject	t lease which would entitle the	applicant to conduc
operations thereon.	• • •		- ,		
Conditions of approval, if any, are	attached.				
Title 18 U.S.C. Section 1001 and T		it a crime for any person kn	owingly and willfully to r	nake to any department or agen	cy of the United
States any false, fictitious or fraudi		• •			
*(Instructions on reverse)					
	Sur .	Und de c	This action is	subject to technical and	
ស្រួក គ្រួ សូមមានាក្រុម	COMPLIANCE WITHORIZED ARE	NMOCD	procedural rev	riew pursuant to 43 CFR 3165.3	

GENERAL REQUIREMENTS.



and appeal pursuant to 43 CFR 3165.4



District II PO Drawer DD, Artesia, NM 88211-0719

District III 1000 Rio Brazos Rd., Aztec. NM 87410

API Number

320.0 Acres -

12 Dedicated Acres

District IV PO Box 2088, Santa Fe, NM 87504-2088 State of New Mexico Energy, Minerals & Natural Resources Departm.

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504–2088 Form C–102 Revised February 21, 1994 Instructions on back ppropriate District Office

Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

³Pool Name

_ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-04	5-31	1919		71629	9	BASIN FRUITLAND COAL				
*Property	Code	Property Name					⁴Well Number			
21180)	C.J. HOLDER					101			
'OGRID I	Vo.	*Operator Name					*Elevation			
16292	28	ENERGEN RESOURCES CORPORATION						6048		
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	
В	16	28N	13W		770	NORTH	1800	EAST	MAUL MAS	
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 line	County	

Pool Code

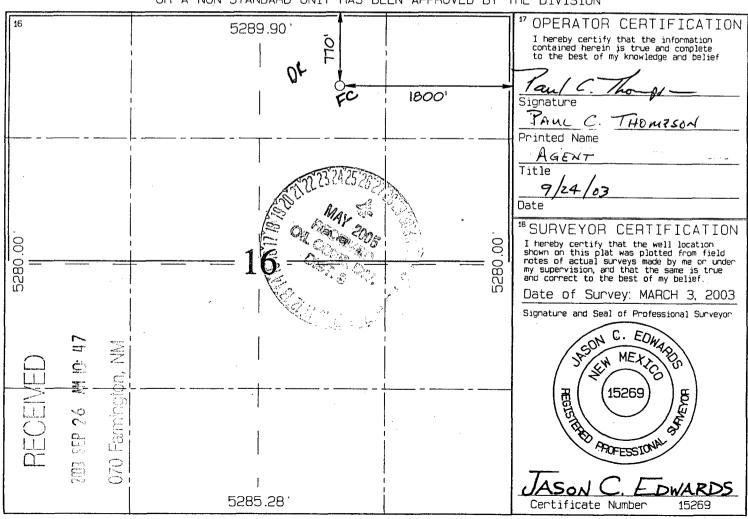
(N/2)

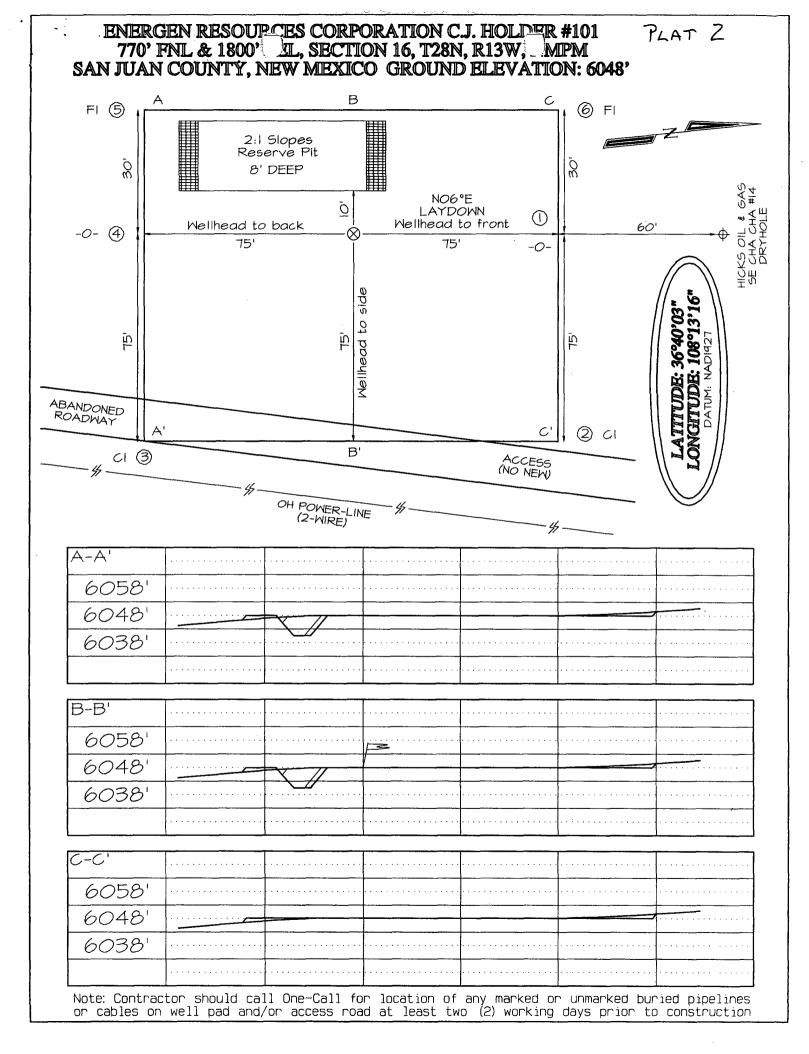
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

¹⁴ Consolidation Code

¹⁵ Order No.

13 Joint or Infill





ENERGEN RESOURCES CORP. OPERATIONS PLAN C. J. Holder #101

I. Location: 770' FNL & 1800' FEL

Date: September 24, 2003

Sec 16 T28N R13W San Juan County, NM

Field: Basin Fruitland Coal

Elev: GL 6048'

Surface: Navajo Tribe / NAPI Minerals: Federal SF 077968

II. Geology: Surface formation _ Nacimiento

Α.	Formation Tops	Depths
	OjO Alamo	285'
	Kirtland	395 ′
	Fruitland	1365′
	Pictured Cliffs	1720'
	Total Depth	1920′

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

Water and gas - 1365' and 1720'.

- 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 exhibits #1 and #2 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 psj.

C. J. Holder #101
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

Α.	Casing Program:			
	Hole Size	Depth	Casing Size	Wt. & Grade
	8-3/4"	120'	7"	20# K-55
	6-1/4"	1920′	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 135 sx (278 cu.ft) of Cl "B" with 2% metasilicate and ¼ #/sk celloflake. (Yield = 2.06 cu.ft./sk; slurry weight = 12.5 PPG). Tail with 100 sx (118 cu.ft.) of Cl "B" with ¼ #/sk celloflake (Yield = 1.18 cu. ft./sk; slurry weight = 15.6 PPG). Total cement volume is 396 cu.ft. (100% excess to circulate cement to surface).

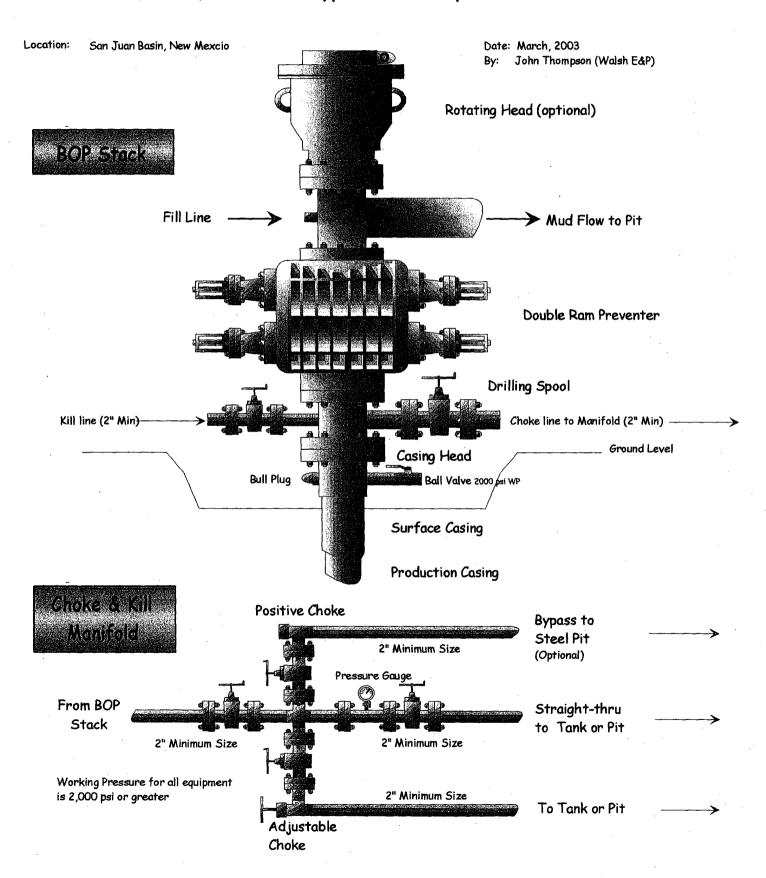
Paul C. Thompson, P.E.

Energen Resources, Inc.

Well Control Equipment Schematic for 2M Service

Attachment to Drilling Technical Program

Typical BOP setup



2

