1.75	Λ					
i ség . Ko	\$\n'	RE(DEIVED	ONOS APD mappostaci	9/24/0	
rm 3160-3 ugust 1999)	o Com Latera	773 SEP	24 AM II: 04	OMB No. 1004	I-0136	
UNITED DEPARTMENT O	STATES	D 074520	Walso, NM	Expires November	: 30, 2000	
	OF THE INTERIO ND MANAGEMENT	W 20 1 1 2 5 6 1	TO SECOND TOTAL	5. Lease Serial No. SF-0789:	35	
APPLICATION FOR PERM		REENTER	13 0	6. If Indian, Allottee or Tri		
. Type of Work: X DRILL	REENTER		3	7. If Unit or CA Agreemen	t, Name and No.	
-		E CON	ion of		68	
o. Type of Well: Oil Well X Gas Well	Other X	Single Zone	Multiple Zone	8. Lease Name and Well N		
Name of Operator	Other (A)	3// 0/ 0	With the Solle	7 Thompson 9. API Well No.	C #/S	
ENERGEN RESOUR	RCES CORPORA	ATION 6	8 Las	300453	1910	
A. Address	3b. Phone N	o. (include area co	de)	10. Field and Pool, or Expl	oratory	
o Walsh Engineering,7415 E. Main, Farmington, NN		(505) 327-4	892	Basin Fruitla		
Location of Well (Report location clearly and in accordance surface 850' FNL and 1830' FWL	ince with any State req	quirements.*)		11. Sec., T., R., M., or Blk,	and Survey or A	
proposed prod. Zone	Malin			C Sec. 3, T27N	R12W	
Distance in miles and direction from nearest town or por	st office*			12. County or Parish	13. State	
9 miles south o	f Farmington, N	IM		San Juan	NM	
Distance from proposed* location to nearest	16. No. of A	Acres in lease	17. Spacing Unit de	_		
property or lease line, ft. (Also to nearest drig, unit line, if any)		330+	, -	320.72		
Distance from proposed location* to nearest well, drilling, completed,	19. Propose	320+	20. BLM/BIA Bond	320 acres (West half)		
to nearest well, drilling, completed, applied for, on this lease, ft.		730 +/-				
Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approx	imate date work wi		23. Estimated duration	· · · · · · · · · · · · · · · · · · ·	
5875' GL	<u></u> _	December 15	5, 2003	1 week		
	24. /	Attachments	, , , serieser			
the following, completed in accordance with the requirement	nts of Onshore Oil and					
Well plat certified by a registered surveyor. A Drilling Plan.		4. Bond to co	over the operations ur	nless SEE ATTACHE	ond on tile (see	
A Surface Use Plan (if the location is on National Forest	System Lands th		ove).	CONDITIONS OF	APPROVA	
SUPO shall be filed with the appropriate Forest Service (5. Operator ce				
SOFO shall be fried with the appropriate Polest Service (Office.	6. Such other authorized	_	on and/or plans as may be requ	uired by the	
		<u></u>				
5. Signature	j ^{Na}	me (Printed/Typed)		Date	0102102	
itle Tauf C. Touff			C. Thompson,	P.E. 1	9/23/03	
pproved by (Signature)	Na	Agent me (Printed/Typed))	Date		
DIM meens	<u> </u>			<u> </u>	<u>-13-0</u> 5	
AFM	Off	fice FF	E Ø			
pplication approval does not warrant or certify that the approval	plicant holds legal or e	equitable title to the	ose rights in the subject	et lease which would entitle the	applicant to con	
perations thereon.	-		•			
onditions of approval, if any, are attached.						
itle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 12 tates any false, fictitious or fraudulent statements or repres				nake to any department or age	ncy of the United	
(Instructions on reverse)			75:			
DESELUPO OPERATIONS AUTHOR	IZED ARE		This action is subject procedural review (ct to technical and pursuant to 43 CFR 3165.3		

SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".



and appeal pursuant to 43 CFR 3165.4



District I RO 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

h0:11

State of New Mexico Energy, Minerals & Natural Resources Departmen

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
State Lease – 4 Copies
Fee Lease – 3 Copies

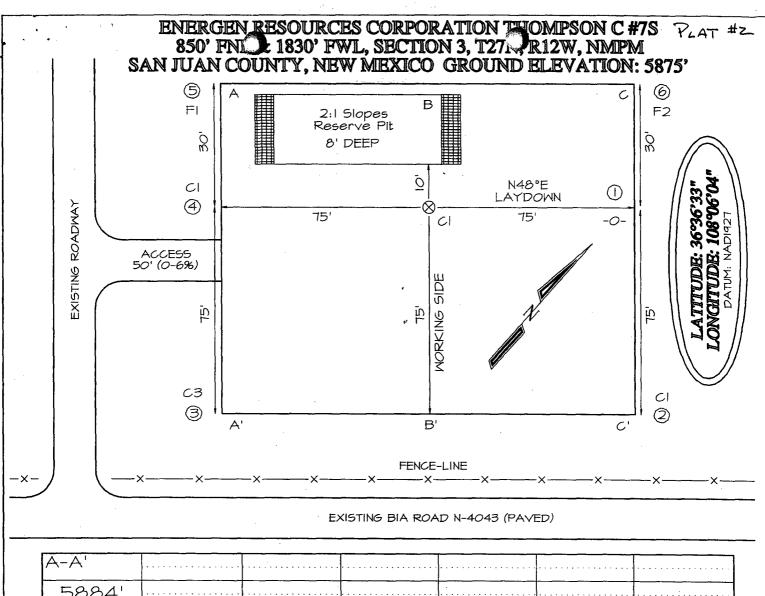
AMENDED REPORT

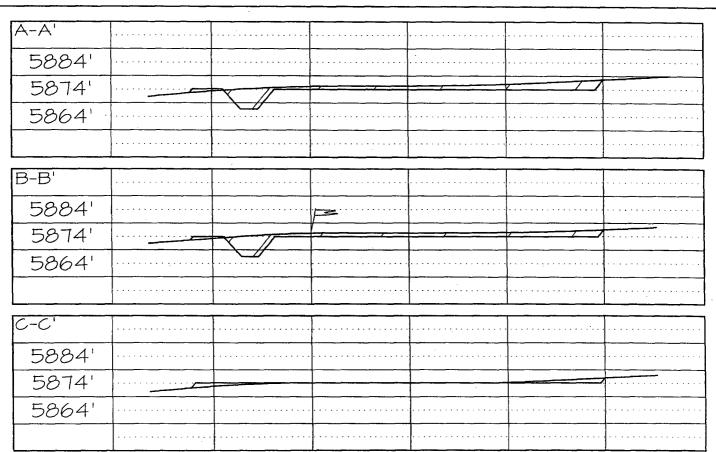
District IV PO Box 2088, Sant	a Fe, NM 8750	4-2088								
		WELL	LOCATIO	DA DNA NO	CREAGE DED	ICATION PL	_AT			
30.045	'API Number 'Pool Code 71629				'Pool Name BASIN FRUITLAND COAL					
Property Code 21418	ty Code Property THOMPS							*Well Number 7S		
'0GRID No 162928		*Operator Na ENERGEN RESOURCES				1			*Elevation 5875	
			10	Surface	Location					
	ction Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West		County	
C	3 27N	12W		850	NORTH	1830 WE) i 	SAN JUAN	
UL or lot no. Sec	ction Township	Bottom Range	Hole Lo	Cation I	f Different North/South line	From Sur	East/Wesi	t line	County	
¹² Dedicated Acres	320.22 Acr	res - (W	/2)	³ Joint or Infill	™ Consolidation Code	¹⁵ Order Na.				
NO ALLOWABL	E WILL BE OR	ASSIGNE	TO THIS	COMPLETION HAS BE	ON UNTIL ALL EN APPROVED	INTERESTS H BY THE DIVI	HAVE BEE	EN CON	ISOLIDATED	
.96: LOT 4	\$.050	LOT	00.08	L0T 2	LOT 1	I hereb	y certify thed herein is	nat the : true an	FICATION Information d complete e and belief	
1830	O'	FC 40'		23.24.25.26.27		Signatur Pauc Printed	C.7	Homis	50 N	
320.00°	,	,	ENTH OF	MAY 2005		Title On Date	3/03			
			3	71101 <u>68</u>)		I SURV I hereby shown on notes of my super	certify tha this plat w actual surv	t the we was plott eys made that the	ed from field by me or under same is true	
pc				DK		Signature	and Seal o		IL 25, 2003 sional Surveyor	

5278.68



Certificate Number





Note: Contractor should call One-Call for location of any marked or unmarked buried pipelines or cables on well pad and/or access road at least two (2) working days prior to construction

ENERGEN RESOURCES CORP. OPERATIONS PLAN Thompson C #75

I. Location: 850' FNL & 1850 FWL

Date: September 23, 2003

Sec 3 T27N R12W San Juan County, NM

Field: Basin Fruitland Coal

Elev: GL 5875'

Surface: Navajo Tribal Trust/NAPI

Minerals: Federal SF 078935

II. Geology: Surface formation Nacimiento

Α.	Formation Tops	Depths
	OjO Alamo	312'
	Kirtland	417′
	Fruitland	1202'
	Pictured Cliffs	1532'
	Total Depth	1730'

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

Water and gas - 1202' and 1532'.

- 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 psi.

Thompson C #7S 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"	1730 ′	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 115 sx (237 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 355 cu.ft. (100% excess to circulate cement to surface).

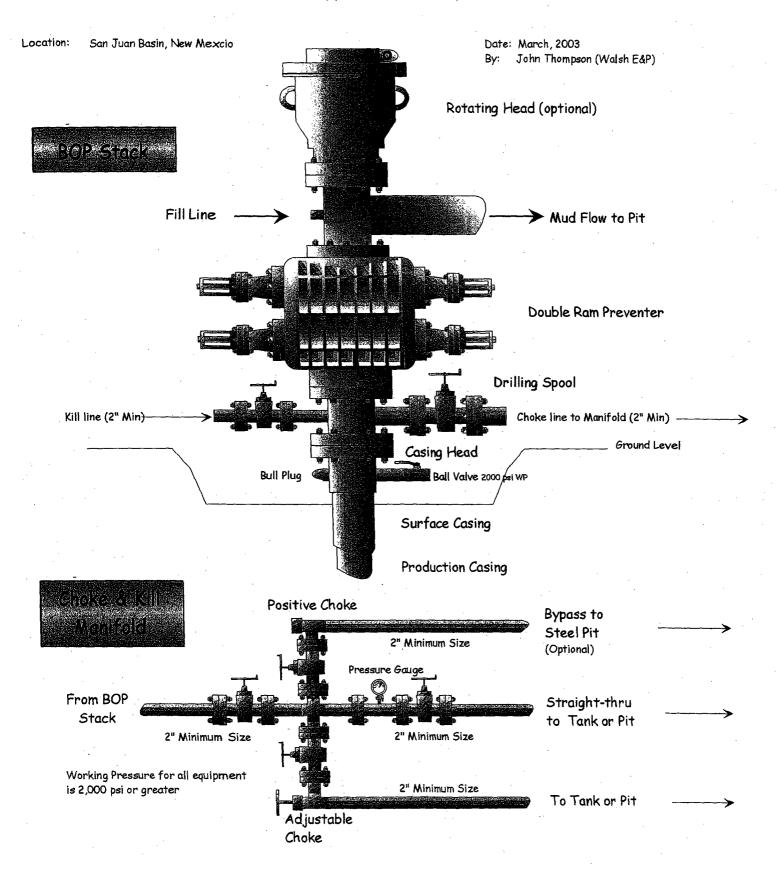
Paul C. Thompson, P.E.

Energen Resources, Inc.

Well Control Equipment Schematic for 2M Service

Attachment to Drilling Technical Program

Typical BOP setup



2 .

ANNULAR PREVENTER

