Folm 3160-5 (August 1999)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED Budget Bureau No. 1004-0135

(Mugust 1999)	BUREAU OF LAND MANAGEMENT									
	CHAIDDA	NOTICES AND D				5. Lease Serial No. NM - 002691				
SUNDRY NOTICES AND REPORTS ON WE Do not use this form for proposals to drill or to re-e					JAN 2006		llottee or Tribe	Name	_	
	abandoned wel	is jorm jor proposa L. Use Form 3160-3	3 (APD) for such i	roposals.		I 11				
			- (-22 2) joi 2000 p		COMS. DI	Jo 7 Unit or C.	A/Agreement, N	ame and/or No.	_	
	SUBMITIN	TRIPLICATE: Other	instructions on rever	e Marie	把几 头	9/1/				
1. Type of Well	<u></u>	_		\$ 10 D		8. Well Name				
Oil Well	☑ Gas V	Well C	Other	708	(101 CI M/F)			野# IE		
2. Name of Operat		1 C				9. API Well No	o. 323 260	ラ タ		
3a. Address	ngineering & Prod	a. Corp.	3b. Phone No. (inclu	de area code		10. Field and Po			_	
7415 East Main St. Farmington, NM 87402 (505) 327-489					,		itland Coal	51 y 1110a		
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)					11. County or Parish, State					
	790' FEL Sec.	23, T27N, R12W				SAN JUA	N, NM			
12.		PPROPRIATE BOX	(ES) TO INDICA	TE NATUR	RE OF NOTIC	E, REPORT, OR	OTHER DAT	rA	_	
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TYPE OF SUBMISSION TYPE OF ACTION										
Notice of Inte	nt	Acidize	☐ Deeper		☐ Productio	n (Start/Resume)	Water Sh			
3		Alter Casing	-	☐ Fracture Treat ☐ Reclamat			☐ Well Inte	grity		
Subsequent R	eport	Change Repair		onstruction	Recomple		Other	· · · · · · · · · · · · · · · · · · ·		
☐ Final Abando	nmant Notice	☐ Change Plans ☐ Convert to Inject		nd Abandon	☐ Water Dis	rily Abandon				
		eration (clearly state all				<u>. </u>			=	
Thompson I Basin Fruitl	Engineering & Prand Coal pool acc	mpleted. Final Abandon the site is ready for final roduction Corp. proportion of the attach APPROVAL sued stipulations.	inspection.) ooses to abandon the	ne Dakota fo	ormation and re	·	ll in the RECE	ZOOS JRN 20 Pm 3 20		
14. I hereby certify Name (Printed/) Paul C. Tho	Typed)	s true and correct		Title	Presiden				**	
Signature 7	anc.	mans -		Date		18, 2006				
		THIS SP	ace for fede	RAIDORS	TATE OFFIC	EUSE.		79.00		
	att Ha	lbuf		Title	PETE BLM	EN6	Date	1/26/06		
	-	pproval of this notice does		Office			(_	
which would entitle the		le title to those rights in the peration thereon.	e subject lease	Office	BLML	FFO.				
		C. Section 1212, makes it	a crime for any person k	nowingly and w			of the United		=	
		ents or representations as t								

Thompson Engineering and Production

Workover Prognosis for Thompson Engineering Tonkin Federal #1E

Location: NE/4 Sec 23 T27N R12W

Date: January 17, 2006

Elev: GL 5976'

KB 5989'

San Juan County, NM

Field: Basin Dakota - Fruitland Coal

Surface: NAPI - Navajo

Minerals: Federal NM 002691 DK Perfs: 6095 - 6174'

API #: 30-045-26028 PBTD: 6216' KB

Objective: Abandon the Dakota and re-complete the well in the Fruitland Coal.

Procedure:

- 1. Check for, and set if necessary, rig anchors. Dig, line, and fence, a workover pit. Move on location and RU completion rig. Hold safety meeting and explain the procedure to the rig crew. NU 2-3/8" relief line to the pit and blow the well down. Kill the well with water if necessary. Nipple down the wellhead and nipple up the BOP.
- 2. Pull on the tubing and release the donut. Tubing string consists of 179 jts of 1-1/2'' EUE tubing, seating nipple, and one tail joint landed at 6126' KB. Pick up additional jts of 1-1/2'' EUE tubing and tag PBTD. Load the hole with water.
- 3. Plug #1 (PBTD to 50' above the Dakota top): Mix 25 sx (30 cu.ft.) of Cl "B" cement with 2% CaCl₂ and celloflake and spot a balanced plug inside the casing from PBTD to 50' above the Dakota top at 6045' KB. POH to 5000' and WOC fOr 3 hrs. TIH and tag the cement top.
- 4. Plug #2 (Gallup top, 5135 5035): Load the casing and pressure test to 500 psi. Casing may not test due to old casing leaks. Mix 15 sx (18 cu.ft.) of Cl "B" cement and spot a balanced plug inside the casing to cover the Gallup top. POH to 4000' and WOC 3 hrs. TIH and tag cement top. TOH.
- 5. Plug #3 (Mesa Verde top, 2456' 2356'): Set a 4-1/2" cement retainer on tubing at 2356'. Pressure test the tubing to 1000 psi. Pressure test the casing to 500 psi. Mix 15 sx (18 cu.ft.) of Cl "B" cement and spot a balanced plug inside the casing to cover the Mesa Verde top. TOH and lay down the remainder of the 1-1/2" tubing.
- 6. Run a GR/CCL and CBL from the top of the cement inside the casing to the cement top outside the casing. If the cement top is below 1450', then shoot two squeeze holes where appropriate and attempt to circulate the

bradenhead. Set a 5-1/2" packer 200' above the squeeze holes and pump enough cement to circulate the bradenhead and leave 50' of cement inside the casing above the squeeze holes. Release the packer and reverse circulate the casing clean. Reset the packer and Pressure up on the squeeze to 1000 psi. WOC overnight.

- 7. Set and fill two frac tanks with clean produced water. Install a 5000 psi frac valve directly to the 4-1/2" casing and pressure test the casing to 3500 psi.
- 8. Perforate the lower Basin Fruitland Coal from 1504 1517' at 3 spf for a total of 39 (0.34") holes. Break down the formation and pump 500 gal of 15% HCl. Frac the lower coals with 60,000# of 20/40 Brady sand at 1 4 ppg in a 20# cross-linked gel and nitrogen foam fluid. Flush the sand to the top perf with fluid.
- 9. Set a composite frac plug at approximately 1485'. Perforate the upper Fruitland Coals at 1460-64' at 3 spf for a total of 12~(0.34'') holes. Break down the formation and pump 500 gal of 15% HCl. Frac the upper coals with 20,000% of 20/40 Brady sand at 1-4 ppg in a 20% cross-linked gel and nitrogen foam fluid. Flush the sand to 1360' with foam.
- 10. Flow the well back through a 4" choke until it dies.
- 11. Move in a completion rig and clean out sand. Land 2-3/8" tubing so the seating nipple is below the bottom perf. Run a 2" X 1-1/2" X 10' RWAC pump on 3" rods. Install a pump jack and produced water tanks. Return the well to production.

Paul C. Thompson, P.E.

Paul C. Thor.

1/17/05

Conditions of Approval:

Notice of Intent: Proposes to abandon the Dakota formation and recomplete this well in the Basin Fruitland Coal pool.

Thompson Engineering and Production Corp. 7415 East Main Street Farmington, NM 87402

Tonkin Federal # 1E API # 3004526208 Lease # NM-002691 Sec 23, T27N, R12W

- 1. BLM Geologist recommends plug # 1 be a balanced plug inside the casing from PBTD to 50' above the Dakota top at 6061'.
- 2. Plug # 2 be a balanced plug inside the casing to cover the Gallup top from 5104' to 5004'.
- 3. If cement squeeze work is necessary, contact Matt Halbert of the BLM Farmington Field Office @ (505) 599-6350.