Cross Timbers Operating Company

AUTHORITY FOR EXPENDITURE

AFE No. _____ Lease Name Federal "F" Well No. #1E

Description SE/4 of Sec 16, T27N, R10W County San Juan

State New Mexico Area San Juan Division Operator CTOC

Project Drill & Complete a infill Dakota Gas Well Prepared by JW Patton

Exploration Development X Recompletion T.D. 6,750' TVD Date 07/24/2000

24x_xx			INTANGIBLE	TANGIBLE	TOTAL
8-01	CONDUCTOR HOLE / RATHOLE				$0
8-01	DAYWORK DRILLING	10 days @ $6,300/day	$63,000		$63,000
8-01	FOOTAGE DRILLING				$0
8-01	MOVING RIG		$9,500		$9,500
8-01	TURNKEY DRILLING				$0
8-03	CONTRACT LABOR		$4,000		$4,000
8-04	TRUCKING		$5,000		$5,000
8-05	LOCATION / ROADS / PITS		$12,000		$12,000
8-06	MUD / CHEMICALS		$10,000		$10,000
8-06	WATER & WATERLINES	(for drilling)	$12,000		$12,000
8-07	DST / WL FORMATION TESTING				$0
8-08	OPEN HOLE LOGS		$16,000		$16,000
8-09	CEMENT & CEMENTING SERVICES		$6,000		$6,000
8-10	DRILL BITS	1- 12 1/4", 3 - 7 7/8" Bits	$20,000		$20,000
8-10	POWER & FUEL		$2,000		$2,000
8-11	CASING CREWS, TOOLS & TONGS				$0
8-12	RENTAL TOOLS & EQUIPMENT		$4,000		$4,000
8-15	CORING & CORE ANALYSIS				$0
8-16	PUMP TRUCKS & SERVICES				$0
8-17	ENGINEERING / SUPERVISION	10 days @ $500/day	$5,000		$5,000
8-18	MUD LOGGING UNIT		$5,000		$5,000
8-18	DIRECTIONAL TOOLS & SERVICE				$0
8-18	FISHING TOOLS & SERVICE				$0
8-21	LAND DAMAGES / LEGAL WORK		$5,000		$5,000
9-01	OVERHEAD	10 days @ $300/day	$3,000		$3,000
9-01	CONDUCTOR PIPE				$0
9-01	INTERMEDIATE CASING				$0
9-01	SURFACE CASING	8-5/8" Surface Csg set @ 350'		$2,800	$2,800
9-03	BRADENHEAD			$4,500	$4,500
9-10	NON-CONT. TANG. EQUIP. DRLG.				$0
CONTINGENCIES		5%	$9,100	$400	$9,500
TOTAL COST TO CASING POINT			$190,600	$7,700	$198,300
	PLUG & ABANDONMENT		$2,000		$2,000
TOTAL COST IF DRY HOLE			$192,600	$7,700	$200,300
8-02	COMPLETION UNIT	6 days @ $2250/day	$13,500		$13,500
8-03	CONTRACT LABOR		$5,000		$5,000
8-03	INSTALLATION OF SERVICE EQUIPMENT				$0
8-04	TRUCKING		$5,000		$5,000
8-05	FILL PITS & DRESS LOCATION		$2,500		$2,500
8-06	CHEMICAL PRODUCTS				$0
8-06	WATER TRANSPORTS (DELIVERY & DISPOSAL)		$5,000		$5,000
8-07	CASED HOLE WIRELINE SERVICES		$3,000		$3,000
8-09	CEMENT & CEMENTING SERVICES		$17,000		$17,000
8-11	CASING CREWS, TOOLS & TONGS		$4,000		$4,000
8-11	RENTAL TOOLS & EQUIPMENT		$5,000		$5,000
8-15	FRAC PIT / LINER				$0
8-15	FRAC TANK RENTALS & TANK TRUCKING (TO LOC.)		$4,000		$4,000
8-15	PUMP TRUCKS & SERVICES				$0
8-15	STIMULATION SERVICES	Dakota Frac	$60,000		$60,000
8-16	ENGINEERING / SUPERVISION	6 days @ $500/day	$3,000		$3,000
8-18	FISHING TOOLS & SERVICES				$0
8-18	LEGAL WORK				$0
8-18	PLUG & ABANDONMENT				$0
8-21	OVERHEAD	6 days @ $300/day	$1,800		$1,800
9-01	PRODUCTION CASING / LINER	4-1/2", 10.5# Csg @ 6750'		$25,300	$25,300
9-02	TUBING	2-3/8" Tbg @ 6650'		$15,000	$15,000
9-03	TUBINGHEAD / X-MAS TREE			$6,500	$6,500
9-04	ARTIFICIAL LIFT EQUIPMENT			$2,500	$2,500
9-04	SUBSURFACE EQUIPMENT / SALVABLE				$0
9-05	SEPARATION EQUIPMENT / GAUGES			$10,000	$10,000
9-05	TANKS / WALKS / STAIRWAYS			$4,000	$4,000
9-09	FLOWLINES & FITTINGS			$4,500	$4,500
9-10	NON-CONT. TANG. EQUIP. COMPL.	EFM/MTR RUN		$8,000	$8,000
CONTINGENCIES		5%	$6,400	$3,800	$10,200
TOTAL COST TO COMPLETE & EQUIP			$135,200	$79,600	$214,800
TOTAL WELL COST			$325,800	$87,300	$413,100

OPERATOR		BY	WI %	DATE
COMPANY		BY	WI %	DATE
COMPANY		BY	WI %	DATE
COMPANY		BY	WI %	DATE
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