BETTIS, BOYLE AND STOVALL

P.O. BOX 1240

GRAHAM, TEXAS 76450

AFE NUMBER: MC-30-9-33-1

DATE: 12-8-2000

AUTHORIZATION FOR EXPENDITURE

DEACH DESIGNATION W/A SECTION 16-T99-83-98	LEASE/WELL N		DEPTH:	9,200 FT.			
DESCRIPTION DRILLING COMPLETION TOTAL		SOUTH FLYING M	D22E			OBJECTIVE:	BOUGH "C" LEA. N.M.
DESCRIPTION DRILLING COMPLETION TOTAL				TION		COONTIBIATE: _	DDIS 11.141.
NTANGIBLE DRILLING COSTS 1908 1							
SURVEYING		DESCRIPTION			DRILLING	COMPLETION	TOTAL
SURVEYING 1,200		INTANGIRI E DRILLING CO	OSTS				
DEALLING-POTAGE RATE \$24.999T. \$2.200 FT. \$25.924			0010		1,200		
DRILLING DAYWORK CHMENT & SERVICES. SURFACE & NITHEACH & STORE AS 14.6288 SUPEXVISION 25 DAYS § 3530 13,720 MCD LOCATES & SUPECIAL EQUIPMENT 10.00 MCD		<u>=</u>					
CEMENT # SERVICES SURFACE APTERNÉDIATE CASING 13,790 13,79				•			
GROCOCAST C.000				20/110			
MUD MATERIALS & SPECIAL EQUIPMENT WATER 20,000 RBLS RV. A. 3000 BBLS RV. B. 300 BBLS BRINE HALLING AND TRANSPORTATION 3,000 LOGGING MUD LOGGING MUD LOGGING CASING CREW SURFACE & INTERNEDIATE CASING CONTRACT LABOR MSCELL ANDOUS INTANGIBLE COMPLETION COSTS COMPLETION LIMIT 10 DAYS & \$1300R. INTANGIBLE COMPLETION COSTS COMPLETION LIMIT 10 DAYS & \$1300R. WATER 1000 BBLS. 1,225 LIMIT COMPLETION COSTS COMPLETION LAND 1, 2006 BALS. CASING CREW SURFACE & REPRODUCTION CASING PERFORATIVE AND DOLD 1, 12 DAYS & \$1300AY WELDING UP TO AND SURFACE & REPRODUCTION CASING SUPERVISION 1, 10 DAYS & \$1500AY TARASPORTATION, INSTALLATION & LABOR SUPERVISION 1, 10 DAYS & \$1500AY TARASPORTATION, STALLATION & LABOR SUPERVISION 1, 10 DAYS & \$1500AY LABOR, ROUSTABOUTS CASING CREW PRODUCTION CASING ADMINISTRATIVE OVERHEAD MISCELLANGOUS TOTAL INTANGIBLE COSTS TANGIBLE COMPLETION COSTS WELLIESD SURFACE CASING 1 SPECIAL SPECE 1, 1500 T. WELLIESD SURFACE CASING 1 SPECIAL SPECE 1, 1500 T. SURFACE CASING CREW PRODUCTION CASING SURFACE CASING CREW PRODUCTION CASING SURFACE CASING CREW PRODUCTION CASING SURFACE CASING SPECIAL SPECE 1, 1500 T. TOTAL INTANGIBLE COSTS TANGIBLE COMPLETION COSTS WELLIESD SURFACE CASING 1 SPECIAL SPECE 1, 1500 T. SURFACE CASING SPECIAL			25 DAYS @ \$550				
WATER 20,000 IBLIS FW. 8. 3000 BBLS BRINE 11,750 HAULING AND TRANSPORTATION 2,000 LOGGING S150DAY 12 DAYS 6,596 FIT LERIGY AND FRANSPORTATION 5,500 FIT LERIGY AND FRANSPORTATION 5,500 CASING CREW SURFACE & INTERMEDIATE CASING 3,500 CASING CREW SURFACE & INTERMEDIATE CASING 4,500 CASING CREW SURFACE & INTERMEDIATE CASING 3,500 CASING CREW SURFACE & INTERMEDIATE CASING 4,500 CASING CREW SURFACE & INTERMEDIATE CASING 5,500 CASING CREW SURFACE & INTERMEDIATE CASING 5,500 CONTRACT LABOR 5,500 MINISTRATIVE OVERHEAD 5,500 INTANGIBLE COMPLETION COSTS COMPLETION UNIT 10 DAYS & \$190RE. 15,556 CEMBININ'S SERVICES PRODUCTION CASING 5,275 CEMBININ'S SERVICES PRODUCTION CASING 5,275 CEMBININ'S SERVICES PRODUCTION CASING 5,275 CEMBININ'S SERVICES PRODUCTION CASING 5,270 FERROPARTING AND BLOOD 1 2 DAYS & \$550DAY 5,500 WELDING 10,000 GAS 3,200 RETAXABORD ACID 3,000 UNITARY SERVICES PRODUCTION CASING 10,000 GALS 5,200 WELDING 10,000 GALS 3,200 RETAXABORD ACID 3,000 SUPERVISION 10,000 GALS 3,000 GALS 5,200 TARASPORTATION, INSTALLATION & LABOR 10,000 GALS 5,200 WELDING 10,000 GALS 3,000 GALS 5,200 TARASPORTATION, INSTALLATION & LABOR 10,000 GALS 5,200 WELDING 10,000 GALS 3,000 GALS 5,200 TARASPORTATION, INSTALLATION & LABOR 10,000 GALS 5,200 WELDING 10,000 GALS 5,200 TARASPORTATION, INSTALLATION & LABOR 10,000 GALS 5,200 TARASPOR			HIDMRNT				
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WATER CEMENTING SERVICES PRODUCTION CASING PERFORATING AND BONDLOG 1 ZONE - BOUGHTC" PERFORATING AND BONDLOG 1 ZONE - BOUGHTC" STIMULATION: REARADOWN AGID TREATMENT, 3000 GALS S. 6,360 WELDING WELDING WELDING SUFERVISION ID DAYS © \$550DAY SUFERVISION ID DAYS © \$550DAY S. 5,500 TRANSPORTATION, INSTALLATION & LABOR EQUIPMENT RENTAL: 2 - FRAC TANKS 5 12" PACKER & RPP MISCELLANEOUS CASING CREW PRODUCTION CASING MISCELLANEOUS CASING CREW PRODUCTION CASING TOTAL INTANGIBLE COSTS TOTAL INTANGIBLE COSTS TOTAL INTANGIBLE COSTS WELHEAD RECONDITIONED SURFACE CASING 13 38" 48 MRT. 442 FT. S. 5,500 SURFACE CASING SURFACE CASING S 12" 17 MRT. 12090 FT. TUBING 2 - 28" - 24 MRT. 22090 FT. TUBING 1 - 17 MRT. N. 80 - 2200 FT. TUBING 2 - 17 MRT. N. 80 - 2200 FT. TUBING DOWNHOLE EQUIPMENT PROPOLICION CASING S 12" 17 MRT N. 80 - 2200 FT. TUBING DOWNHOLE EQUIPMENT PROPOLICION CASING S 12" 17 MRT N. 80 - 2200 FT. TUBING DOWNHOLE EQUIPMENT PROPOLICION CASING S 12" 17 MRT N. 80 - 2200 FT. TUBING DOWNHOLE EQUIPMENT PROPOLICION CASING S 12" 17 MRT N. 80 - 2200 FT. TUBING DOWNHOLE EQUIPMENT TUBING AND S 11" 17 MRT N. 80 - 2200 FT. TOTAL TANGBALE COSTS TANGBATTERY 1 - 15,000 SPECIAL EQUIPMENT TOTAL TANGBER COSTS TOTAL TOTAL TOTAL COSTS TO						16,536	
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SPECIAL EQUIPMENT 2,500				ER	*** *** *** *** ***		
TOTAL TANGIBLE COSTS 55,434 201,514 25 TOTAL WELL COST 459,174 308,018 767 BOUGH "C" 9070-9200 PREPARED BY: BRUCE A STUBBS TITLE: PETROLEUM ENGINEER DATE: 12-8 W.P. PROBANT APPROVED BY: TITLE: DATE: 12-8 COMPANY: W.I.:			6'X20'				
### TOTAL WELL COST ### 459,174 ### 308,018 ### 767 BOUGH "C" 9070-9200 PREPARED BY: BRUCE A STUBBS #### DATE: 12-8 W.PPROBANT APPROVED BY: TITLE: DATE: 12-8 APPROVED BY: TITLE: DATE: DATE: 12-8 COMPANY: #### DATE:		SPECIAL EQUIPMENT				2,500	
### TOTAL WELL COST ### 459,174 ### 308,018 ### 767 BOUGH "C" 9070-9200 PREPARED BY: BRUCE A STUBBS ### PETROLEUM ENGINEER DATE: 12-8 W.P. PROBANT APPROVED BY: TITLE: DATE: 12-8 APPROVED BY: TITLE: DATE: DATE: COMPANY: ### DATE:							
BOUGH "C" 9070-9200 PREPARED BY: BRUCE A. STUBBS TITLE: PETROLEUM ENGINEER DATE: 12-8 W.P. PROBANT APPROVED BY: TITLE: DATE: 12-8 APPROVED BY: TITLE: DATE: DATE: 12-8		TOTAL TANGIBLE CO	STS		55,434	201,514	256,948
PREPARED BY: BRUCE A. STUBBS TITLE: PETROLEUM ENGINEER DATE: 12-8 W.P. PROBANT APPROVED BY: TITLE: DATE: 12-8 APPROVED BY: TITLE: DATE: 12-8	TOTAL WELL COST				459,174	308,018	767,192
W.P. PROBANT APPROVED BY: TITLE: DATE: 12-8 APPROVED BY: TITLE: DATE:		BOUGH "C" 9070-920	00				
APPROVED BY: TITLE: DATE: 12-8 APPROVED BY: TITLE: DATE:	PREPARED	BY: BRUCE A STUBBS		TITLE:	PETROLEUM ENGINI	EER	DATE: 12-8-2000
APPROVED BY: DATE: COMPANY: %W.L:	W.PPROB	ANT					
COMPANY:	APPROVED	BY:		TITLE:			DATE: 12-8-2000
COMPANY:	ADDDO	n pv.					
	COMPANY	(:		%W.I.:			
IT IS RECOGNIZED THAT THE AMOUNTS HEREIN ARE ESTIMATES ONLY AND APPROVAL OF THIS A.F.E. SHALL EXTEND TO THE ACTUAL COSTS INCURRED IN THE OPERATION SPECIFIED ABOVE, WHETHER MORE OR LESS THAN SET OUT HEREIN.				HIS A.F.E. SHALL	EXTEND TO THE ACTUAL (COSTS INCURRED IN THE OF	ERATION