



AUTHORIZATION FOR EXPENDITURE

PROJECT NAME	Harroun Trust 31 4H				
COUNTY/PARISH	Eddy	COST CTR NUM	1090047501	AFE NUMBER	
STATE				AFE DATE	1/15/2013
LEGAL DESCRIPTION	SURFACE LOCATION: 330' FSL & 1345' FEL, Sec. 31-T23S-R29E / BOTTOM HOLE LOCATION: 2310' FSL & 1980' FEL, Sec. 30-T23S-R29E				
WORK DESCRIPTION	Drill and Complete horizontal Lower Brushy Canyon Oil Well				

Drill and Complete Cost Plan Summary

Cost Element #	Cost Element Description	Surface Lease Acquire	Wellsite Preparation	Drill	Case and Suspend	Complete	Site Equip	Well Tie In	Element	Totals
6010100	Employee Salaries	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0
6020100	Contract Labor							\$0		\$0
6060100	Dyed Liquid Fuels (Texas Only)			\$0	\$0	\$92,400	\$0			\$92,400
6060110	Liquid Fuels - Other			\$153,900	\$25,650	\$0	\$0			\$179,550
6060120	Electricity & Utilities			\$0	\$0	\$0	\$0			\$0
6080110	Disposal - Saltwater & Other Fluids			\$150,272	\$0	\$1,812,360				\$1,962,632
6090100	Fluids - Water		\$0	\$115,425	\$0	\$0				\$115,425
6090110	Fluids - Lube & Hydraulic Oil							\$0		\$0
6100100	Permitting, Surveying & Title Services	\$0	\$0			\$0	\$0	\$0		\$0
6100110	Right Of Way	\$0						\$0		\$0
6110100	Roads & Location Recovery			\$0		\$5,500				\$5,500
6110120	Road & Site Preparation Materials & Supplies						\$0	\$0		\$0
6110130	Road & Site Preparation Services		\$0			\$16,500	\$0	\$0		\$16,500
6110170	Damages & Remediation	\$0	\$0				\$0	\$0		\$0
6120120	Measurement Equipment							\$83,500		\$83,500
6130170	Communication Services - Other			\$1,283	\$0	\$132,000	\$0			\$133,283
6140100	Enviro - Community Consultations	\$0								\$0
6140110	Enviro - Compliance & Fines	\$0						\$0		\$0
6140160	Enviro - Services	\$0		\$0	\$0	\$0				\$0
6150100	Logging, Perf & W/L Services (CH Only)			\$44,781	\$0	\$3,900				\$48,681
6160100	Materials & Supplies		\$0	\$10,688	\$0	\$0	\$0	\$0		\$10,688
6170100	Pulling & Swabbing Services					\$0				\$0
6170110	Snubbing & Coil Tubing Services					\$0				\$0
6180130	Vehicles - Usage		\$0	\$0	\$0	\$0	\$91,400	\$0		\$91,400
6190110	Trucking & Hauling		\$0	\$41,681	\$6,413	\$5,500	\$0	\$0		\$53,594
6320160	Welding Services			\$8,550	\$0	\$0				\$8,550
6550120	Other Roustabout Services			\$0	\$0	\$0	\$0			\$0
6200110	Inspection Services			\$0	\$0	\$3,300	\$0	\$0		\$3,300
6200130	Consultants - Technical & Professional Fees	\$0	\$0	\$169,290	\$18,810	\$0	\$0	\$0		\$188,100
6310120	Stimulation Services					\$27,000				\$27,000
6310200	Casing & Tubular Services			\$29,391	\$21,375	\$150,000				\$200,766
6310250	Cementing Services			\$75,881	\$106,875	\$83,200				\$265,956
6310280	Daywork Costs			\$723,330	\$90,416	\$0				\$813,746
6310290	Turnkey Drilling Costs			\$0	\$0	\$0				\$0
6310300	Directional Services			\$191,306	\$0					\$191,306
6310310	Drill Bits			\$99,394	\$0	\$0				\$99,394
6310330	Drilling and Completion Fluids & Services			\$38,475	\$6,413	\$0				\$44,888
6310350	Fishing Services			\$0	\$0	\$0				\$0
6310360	Footage Costs			\$0						\$0
6310370	Mob & Demobilization			\$208,406		\$0				\$208,406
6310380	Open Hole Evaluation			\$0						\$0
6310480	Well Testing Services					\$93,500				\$93,500
6320100	Equipment Services - Surface Rentals			\$51,300	\$8,550	\$72,100	\$0	\$0		\$131,950
6320110	Equipment Services - Downhole Rentals			\$45,636	\$0	\$36,300				\$81,936
6350100	Construction Services							\$0		\$0
6370100	Land							\$0		\$0
6520100	Legal Fees	\$0								\$0
6520110	Legal Settlements	\$0								\$0
6550100	Miscellaneous Costs	\$0								\$0
6550110	Other Services	\$0		\$0	\$0	\$600	\$0	\$0		\$600
6120100	Electrical, Instrumentation & Control Service						\$0			\$0
6230120	Safety Services						\$0			\$0
6610100	Casualty & Property Insurance			\$0	\$0	\$0				\$0
6630110	Overhead			\$0	\$0	\$0	\$0	\$0		\$0
6650100	Leasehold Rentals	\$0								\$0
6650200	Other Leasehold Costs	\$0								\$0
	TOTAL INTANGIBLE ITEMS	0	0	2,156,989	284,502	2,534,160	91,400	83,500		5,152,551
6300110	Dehydration Equipment						\$0	\$0		\$0
6300130	Heaters & Heat Exchange Equipment						\$0			\$0
6300150	Separator Equipment						\$20,000	\$0		\$20,000
6300210	Treater & Free Water Knockout Equipment						\$69,900			\$69,900
6300220	Storage Vessels & Tanks						\$71,300			\$71,300
6300230	Pumps - Surface						\$0			\$0
6300260	Valves							\$0		\$0
6310130	Artificial Lift Equipment					\$28,000				\$28,000
6310150	Casing - Conductor & Drive Pipe			\$30,780						\$30,780
6310410	Sucker Rods					\$8,400				\$8,400
6310420	Oil Country Tubular Goods Tubing					\$14,900				\$14,900
6310460	Wellhead Equipment			\$10,688	\$0	\$0				\$10,688
6310530	Surface Casing			\$20,306						\$20,306
6310540	Intermediate Casing			\$100,014						\$100,014
6310550	Production Casing				\$203,704	\$73,600				\$277,304
6310560	Prod Liners & Tiebacks				\$0	\$0				\$0
6310570	Dril Liners & Tiebacks			\$0						\$0
6320180	Equipment Other					\$110,000	\$0	\$0		\$110,000
6310220	Corrosion Protection Equip						\$0	\$0		\$0
6330100	Pipe, Fitting, Flanges & Couplings						\$0	\$22,000		\$22,000
6130120	Comm devices and accessories - SCADA						\$0			\$0
6120110	Electrical, Instrumentation & Control Equip						\$0			\$0
6120120	Measurement Equipment						\$0			\$0
6320140	Engines & Motors						\$226,600			\$226,600
	TOTAL TANGIBLE ITEMS	0	0	161,788	203,704	234,900	387,800	22,000		1,010,192
	TANGIBLE SPLIT %	0	0	7	42	8	81	21		
	GRAND TOTAL	0	0	2,318,777	488,206	2,769,060	419,200	105,500		6,163,543