



201606372

## Authorization for Expenditure

AFE # XX-118231.01

Well Name: MARMOT 19\_18-16N-10W 1HX

Cost Center Number: 1093467101

Legal Description: SECTIONS 19 &amp; 18-16N-10W

Revision: ☐

AFE Date: 02/23/2016

State: OK

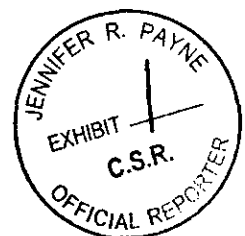
County/Parish: BLAINE

## Explanation and Justification:

THE PROPOSED MERAMEC WELL WILL BE A 20,000' MD (10,000 TVD') MISSISSIPPIAN HORIZONTAL WITH APPROXIMATELY 10,000' OF LATERAL. IT WILL BE DRILLED FROM A SINGLE WELL PAD. THE PROJECT DETAILS ARE AS FOLLOWS: 17-1/2" HOLE TO 1,500' W/ 13-3/8" CASING, 12-1/4" HOLE WITH NUDGE TO +/-9,000' W/ 9-5/8" INTERMEDIATE CASING, AND 8-3/4" LATERAL IN THE MISSISSIPPIAN W/ 5-1/2" CASING TO SURFACE CEMENTED BACK INTO THE 9-5/8" CASING.

Code	Intangible Description	Drilling Costs	Completion Costs	Dry Hole Costs	Total Costs
6060100	DYED LIQUID FUELS	108,000.00	0.00	0.00	108,000.00
6060130	GASEOUS FUELS	31,000.00	0.00	0.00	31,000.00
6070100	GENERATORS SVC	24,000.00	0.00	0.00	24,000.00
6080100	DISPOSAL - SOLIDS	115,000.00	0.00	0.00	115,000.00
6080110	DISP-SALTWATER & OTH	0.00	121,010.00	0.00	121,010.00
6090100	FLUIDS - WATER	7,000.00	43,450.00	0.00	50,450.00
6100100	PERMIT SURVEY&TITLE	20,000.00	0.00	0.00	20,000.00
6100110	RIGHT OF WAY	5,000.00	0.00	0.00	5,000.00
6110130	ROAD&SITE PREP SVC	133,000.00	0.00	0.00	133,000.00
6110170	DAMAGE & REMEDIATION	25,000.00	0.00	0.00	25,000.00
6130170	COMM SVCS - OTHER	10,000.00	0.00	0.00	10,000.00
6130360	RTOC - ENGINEERING	37,000.00	0.00	0.00	37,000.00
6130370	RTOC - GEOSTEERING	40,000.00	0.00	0.00	40,000.00
6140160	ENV-SERVICES	0.00	10,800.00	0.00	10,800.00
6150100	CH LOG PERFRTG&WL SV	0.00	213,200.00	0.00	213,200.00
6160100	MATERIALS & SUPPLIES	16,000.00	0.00	0.00	16,000.00
6170100	PULLING&SWABBING SVC	0.00	14,000.00	0.00	14,000.00
6170110	SNUBBG&COIL TUBG SVC	0.00	336,400.00	0.00	336,400.00
6190100	TRCKG&HL-SOLID&FLUID	5,000.00	0.00	0.00	5,000.00
6190110	TRUCKING&HAUL OF EQP	14,000.00	2,050.00	0.00	16,050.00
6200130	CONSLT-TECH&PROF SVC	157,000.00	64,750.00	0.00	221,750.00
6230120	SAFETY SERVICES	28,000.00	6,800.00	0.00	34,800.00
6300270	SOLIDS CONTROL SRVCS	38,000.00	0.00	0.00	38,000.00
6310120	STIMULATION SERVICES	0.00	3,261,000.00	0.00	3,261,000.00
6310200	CASING & TUBULAR SVC	85,000.00	0.00	0.00	85,000.00
6310250	CEMENTING SERVICES	187,000.00	0.00	0.00	187,000.00
6310280	DAYWORK COSTS	957,000.00	0.00	0.00	957,000.00
6310300	DIRECTIONAL SERVICES	304,000.00	0.00	0.00	304,000.00
6310310	DRILL BITS	152,000.00	0.00	0.00	152,000.00
6310330	DRILL&COMP FLUID&SVC	387,000.00	0.00	0.00	387,000.00
6310360	FOOTAGE COSTS	0.00	13,120.00	0.00	13,120.00
6310370	MOB & DEMOBILIZATION	207,000.00	0.00	0.00	207,000.00
6310380	OPEN HOLE EVALUATION	22,000.00	0.00	0.00	22,000.00
6310480	TSTNG-WELL, PL & OTH	0.00	164,395.00	0.00	164,395.00
6310600	MISC PUMPING SERVICE	0.00	78,600.00	0.00	78,600.00
6320100	EQPMNT SVC-SRF RNTL	106,000.00	309,290.00	0.00	415,290.00
6320110	EQUIP SVC - DOWNHOLE	87,000.00	53,308.00	0.00	140,308.00
6320160	WELDING SERVICES	3,000.00	0.00	0.00	3,000.00
6520100	LEGAL FEES	5,000.00	0.00	0.00	5,000.00
6550110	MISCELLANEOUS SVC	64,000.00	97,194.16	0.00	161,194.16
6550120	OTHER ROUSTABOUT SER	0.00	51,500.00	0.00	51,500.00

MAR 01 2016



Costs on this form are estimates only. Working Interest Owners should not consider these estimates as establishing any limit on the monies which will be required to perform the proposed operation.



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Code	Intangible Description	Drilling Costs	Completion Costs	Dry Hole Costs	Total Costs
6630110	CAPITAL OVERHEAD	19,000.00	17,500.00	0.00	36,500.00
6740340	TAXES OTHER	0.00	161,759.92	0.00	161,759.92
	Total Intangibles	3,398,000.00	5,020,127.08	0.00	8,418,127.08

Code	Tangible Description	Drilling Costs	Completion Costs	Dry Hole Costs	Total Costs
6120110	I&C EQUIPMENT	0.00	86,000.00	0.00	86,000.00
6120120	MEASUREMENT EQUIP	0.00	41,000.00	0.00	41,000.00
6300150	SEPARATOR EQUIPMENT	0.00	60,000.00	0.00	60,000.00
6300220	STORAGE VESSEL&TANKS	0.00	77,000.00	0.00	77,000.00
6310150	CASG-COND&DRIVE PIPE	20,000.00	0.00	0.00	20,000.00
6310420	TUBING & COMPONENTS	0.00	63,800.00	0.00	63,800.00
6310460	WELLHEAD EQUIPMENT	36,000.00	108,500.00	0.00	144,500.00
6310530	SURFACE CASING	56,000.00	0.00	0.00	56,000.00
6310540	INTERMEDIATE CASING	357,000.00	0.00	0.00	357,000.00
6310550	PRODUCTION CASING	493,000.00	0.00	0.00	493,000.00
6310580	CASING COMPONENTS	52,000.00	0.00	0.00	52,000.00
6330100	PIPE,FIT,FLANG,CPLNG	0.00	45,000.00	0.00	45,000.00
	Total Tangibles	1,014,000.00	481,300.00	0.00	1,495,300.00

TOTAL ESTIMATED COST	4,412,000.00	5,501,427.08	0.00	9,913,427.08
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### WORKING INTEREST OWNER APPROVAL

Company Name:

Signature:

Print Name:

Title:

Date:

Email:

Note: Please include/attach well requirement data with ballot.