

CONTINENTAL RESOURCES, INC.P.O. Box 1032 Enid, OK 73702
(580) 233-8955**AUTHORITY FOR EXPENDITURE**

AFE No.: _____ Date: 05/20/16 Lease Name & No.: Robbie Ray 1-18-19XH

Legal Description: SHL: 2450 FNL & 330 FWL Sec 19-T13N-R13W County: Blaine State: Oklahoma

BHL: 50 FSL & 330 FWL Sec 18-T13N-R13W

Work Description: Drill and complete Woodford, 7701 ft lateral at 15808 ft TVD 5.5 in. cemented long string to 23742 ft; 32 stage frac

Oil Based Mud system

Exploration **XXX** Development _____ Recompletion: _____ Supplemental: _____ T.D.: 23,742'

	Estimated Days	64.71590909	5	
INTANGIBLES	Code	Dry Hole	Code	Completion
Legal expenses	010	\$33,000	010	\$1,000
Damages	020	\$20,000	020	\$1,000
Road & location construction	030	\$204,000	030	\$51,000
Rig Costs	060	\$2,075,000	060	\$276,000
Water	070	\$39,000	070	\$88,000
Drilling mud & chemicals	090	\$645,000	090	\$240,500
Bits & BHA	100	\$232,000	100	\$121,000
Surface rental tools & equipment	110	\$167,000	110	\$126,000
Drill pipe & work string rental	120	\$15,000	120	\$45,000
Cementing	130	\$58,000	130	\$87,000
Flowback	140	\$0	140	\$52,000
Roustabout Labor	151	\$30,000	151	\$0
Roustabout Transportation	152	\$20,000	152	\$0
Downhole testing and analysis	160	\$27,000	160	\$0
Wireline services	170	\$30,000	170	\$203,000
Rental tanks	210	\$26,000	210	\$14,000
Stimulation services	230	\$0	230	\$2,560,000
Miscellaneous services & contingencies	240	\$263,000	240	\$224,000
Fuel	250	\$328,000	250	\$0
Directional tools and services	280	\$449,000	280	\$0
Inspections	290	\$6,000	290	\$0
Casing Crews	300	\$67,000	300	\$50,000
Fishing tools and services	330	\$0	330	\$0
Pumping services	340	\$0	340	\$224,000
Insurance	350	\$0	350	\$0
Mud disposal	360	\$155,000	360	\$352,000
Field office expense - housing	470	\$116,000	470	\$0
Contract supervision	500	\$289,000	500	\$42,000
Overhead	800	\$7,000	800	\$4,000
Drilling Hazard Mitigation	900	\$0	900	\$0
TOTAL INTANGIBLES		\$5,301,000		\$4,761,500
TANGIBLES				
Surface Casing 1,500 ft. @ \$ 38.00 /ft. 13 3/8", 54.5#, J-55, ST	510	\$57,000		\$57,000
Intermediate Casing 11778 ft. @ \$ 36.00 /ft. 9 5/8", 40#, P110, BTC	520	\$424,000		\$424,000
Production Casing 23,850 ft. @ \$ 19.75 /ft. 5-1/2", 23#, P-110 BTC-XP			530	\$471,000
Toe Initiator Sleeve			530	\$19,000
Surf Equ Trkg/Inst/Lbr			540	\$53,200
Tubing 18,150 ft. @ \$ 5.75 /ft. 2-7/8", 6.5#, L-80, EUE			550	\$100,000
Wellhead Equipment 13-5/8" SOW x 13 3/8" 3K x 11" 5K x 7-1/16" 10K x 2-9/16" 10K	560	\$12,000	560	\$32,000
Packers & Subsurface Equipment			570	\$25,000
Pumping Unit & Prime Mover			580	\$0
Sucker Rods & Pump			590	\$0
Production Facility			600	\$170,000
Flowline, Valves & Connections			610	\$50,000
TOTAL TANGIBLES		\$493,000		\$920,200
TOTAL AFE		\$5,794,000		\$5,681,700



MAY 24 2016

APPROVAL:**Operator:****Non-Operator:**

CONTINENTAL RESOURCES, INC.

Company: _____

Operations: _____ Geology: _____ Land: _____

By: _____

Date: _____

Wt: _____ % Date: _____

This AFE is only an estimate of the costs to be incurred in conducting the referenced operation. In no event shall this AFE be construed as a representation or warrant as to the accuracy of such estimate, or construed in anyway to limit a participant's responsibility to pay its proportionate share of all costs and expenses incurred in connection with the referenced operations.