

CONTINENTAL RESOURCES, INC.

P.O. Box 1032 Enid, OK 73702
(580) 233-8955

Cause CD 201501867

AUTHORITY FOR EXPENDITURE

AFE No. _____ Date: 06/11/15 Lease Name & No. Ludwig 1-22-15XH

Legal Description: SHL 290 FSL & 300 FWL Sec 22-T16N-R10W County: Blaine State: Oklahoma

Work Description: BHL 50 FNL & 330 FWL Sec 15-T16N-R10W
Drill and complete Stack, 9823 ft lateral at 9950 ft TVD 5.5 in. cemented long string to 20045 ft. 32 stage frac

Oil Based Mud system:

Exploration XXX	Development	Recompletion	Supplemental	T.D. 20,245	
	Estimated Days	43	5		
INTANGIBLES	Code	Dry Hole	Code	Completion	Total
Legal expenses	310	\$33,000	310	\$1,000	\$34,000
Damages	320	\$20,000	320	\$1,000	\$21,000
Road & location construction	330	\$178,000	330	\$25,000	\$203,000
Rig Costs	360	\$1,334,000	360	\$135,000	\$1,469,000
Water	370	\$31,000	370	\$98,000	\$127,000
Drilling mud & chemicals	380	\$407,000	390	\$100,000	\$507,000
Bits & BHA	100	\$175,000	100	\$98,000	\$273,000
Surface rental tools & equipment	110	\$112,000	110	\$134,000	\$246,000
Drill pipe & work string rental	120	\$13,000	120	\$0	\$13,000
Cementing	130	\$58,000	130	\$127,000	\$185,000
Flowback	140	\$0	140	\$52,000	\$52,000
Roustabout Labor	151	\$30,000	151	\$0	\$30,000
Roustabout Transportation	152	\$20,000	152	\$0	\$20,000
Downhole testing and analysis	160	\$34,000	160	\$0	\$34,000
Wireline services	170	\$40,000	170	\$223,000	\$263,000
Rental tanks	210	\$18,000	210	\$14,000	\$32,000
Stimulation services	230	\$0	230	\$3,520,000	\$3,520,000
Miscellaneous services & contingencies	240	\$177,000	240	\$237,000	\$414,000
Fuel	250	\$218,000	250	\$0	\$218,000
Directional tools and services	280	\$314,000	280	\$15,000	\$329,000
Inspections	290	\$6,000	290	\$0	\$6,000
Casing Crews	300	\$67,000	300	\$90,000	\$127,000
Fishing tools and services	330	\$0	330	\$0	\$0
Pumping services	340	\$0	340	\$224,000	\$224,000
Insurance	350	\$0	350	\$0	\$0
Mud disposal	360	\$183,000	360	\$431,000	\$614,000
Field office expense - housing	470	\$81,000	470	\$0	\$81,000
Contract supervision	500	\$181,000	500	\$58,000	\$239,000
Overhead	900	\$7,000	900	\$4,000	\$11,000
Drilling Hazard Mitigation	900	\$0	900	\$0	\$0
TOTAL INTANGIBLES		\$3,737,000		\$5,664,000	\$9,401,000
TANGIBLES					
Surface Casing	1,500 ft @ \$ 37.25 ft 13 3/8" 54.5# J-55, ST	510	\$56,000		\$56,000
Intermediate Casing	3794 ft @ \$ 39.25 ft 9 5/8" 40# P-110, L34	520	\$345,000		\$345,000
Production Casing	20,750 ft @ \$ 22.58 ft 5-1/2" 30# P-110 BTT-XP			530	\$453,000
Toe Initiator Sleeve	3 ft @ \$ 630 ft			530	\$19,000
Surf Equ Trng/Inst/Lbr				540	\$25,000
Tubing	10,220 ft @ \$ 5.75 ft 2-7/8" 6.5# L-80, SUB			550	\$63,000
Wellhead Equipment	13-5/8" SQW 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	\$10,000
Pumping Unit & Prime Mover				580	\$0
Sucker Rods & Pump				590	\$0
Production Facility				600	\$170,000
Flowline, Valves & Connections				610	\$25,000
TOTAL TANGIBLES		\$413,000		\$797,000	\$1,210,000
TOTAL AFE		\$4,150,000		\$6,461,000	\$10,611,000

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.

Idem: local\files\CLR Shared Documents\Drilling\Mid Continent\1 Oklahoma\Woodford\1 Anadarko\1 Blaine County\Ludwig 1-22-15X\HAF\1Ludwig 1-22-15XH AFE 2015-04-02 CD

JUN 16 2015

