



CD No. 201700962

Authorization for Expenditure

AFE # XX-121378.01
Well Name: OTTER 16-16N-12W 1H
Cost Center Number: 1093634801
Legal Description: SEC 16-16N-12W
Revision: ☐

AFE Date: 02-18-2017
State: OK
County/Parish: BLAINE



MAR 07 2017

Explanation and Justification:

COSTS TO DRILL AND COMPLETE A MERAMEC WELL.

| Code | Intangible Description | Drilling Costs | Completion Costs | Dry Hole Costs | Total Costs |
|---------|------------------------|----------------|------------------|----------------|--------------|
| 6010100 | EMPLOYEE SALARIES | 0.00 | 5,000.00 | 0.00 | 5,000.00 |
| 6060100 | DYED LIQUID FUELS | 79,000.00 | 0.00 | 0.00 | 79,000.00 |
| 6060130 | GASEOUS FUELS | 25,000.00 | 0.00 | 0.00 | 25,000.00 |
| 6070100 | GENERATORS SVC | 17,000.00 | 0.00 | 0.00 | 17,000.00 |
| 6080100 | DISPOSAL - SOLIDS | 90,000.00 | 0.00 | 0.00 | 90,000.00 |
| 6080110 | DISP-SALTWATER & OTH | 0.00 | 107,186.00 | 0.00 | 107,186.00 |
| 6090100 | FLUIDS - WATER | 5,000.00 | 42,300.00 | 0.00 | 47,300.00 |
| 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 |
| 6110120 | ROAD&SITE PREP M&S | 0.00 | 14,383.60 | 0.00 | 14,383.60 |
| 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 | 7,000.00 | 0.00 | 0.00 | 7,000.00 |
| 6130360 | RTOC - ENGINEERING | 27,000.00 | 0.00 | 0.00 | 27,000.00 |
| 6130370 | RTOC - GEOSTEERING | 23,000.00 | 0.00 | 0.00 | 23,000.00 |
| 6140160 | ENV-SERVICES | 0.00 | 5,400.00 | 0.00 | 5,400.00 |
| 6150100 | CH LOG PERFRTG&WL SV | 0.00 | 170,553.00 | 0.00 | 170,553.00 |
| 6160100 | MATERIALS & SUPPLIES | 12,000.00 | 0.00 | 0.00 | 12,000.00 |
| 6170100 | PULLING&SWABBING SVC | 0.00 | 14,000.00 | 0.00 | 14,000.00 |
| 6170110 | SNUBBG&COIL TUBG SVC | 0.00 | 247,255.00 | 0.00 | 247,255.00 |
| 6190100 | TRCKG&HL-SOLID&FLUID | 5,000.00 | 0.00 | 0.00 | 5,000.00 |
| 6190110 | TRUCKING&HAUL OF EQP | 14,000.00 | 20,910.86 | 0.00 | 34,910.86 |
| 6200130 | CONSLT-TECH&PROF SVC | 120,000.00 | 36,500.00 | 0.00 | 156,500.00 |
| 6230120 | SAFETY SERVICES | 22,000.00 | 3,400.00 | 0.00 | 25,400.00 |
| 6300270 | SOLIDS CONTROL SRVCS | 32,000.00 | 0.00 | 0.00 | 32,000.00 |
| 6310120 | STIMULATION SERVICES | 0.00 | 1,821,000.00 | 0.00 | 1,821,000.00 |
| 6310200 | CASING & TUBULAR SVC | 68,000.00 | 0.00 | 0.00 | 68,000.00 |
| 6310250 | CEMENTING SERVICES | 137,000.00 | 0.00 | 0.00 | 137,000.00 |
| 6310270 | CRANE SERVICES | 0.00 | 2,200.00 | 0.00 | 2,200.00 |
| 6310280 | DAYWORK COSTS | 694,000.00 | 0.00 | 0.00 | 694,000.00 |
| 6310300 | DIRECTIONAL SERVICES | 185,000.00 | 0.00 | 0.00 | 185,000.00 |
| 6310310 | DRILL BITS | 112,000.00 | 0.00 | 0.00 | 112,000.00 |
| 6310330 | DRILL&COMP FLUID&SVC | 296,000.00 | 0.00 | 0.00 | 296,000.00 |
| 6310360 | FOOTAGE COSTS | 0.00 | 10,840.00 | 0.00 | 10,840.00 |
| 6310370 | MOB & DEMOBILIZATION | 207,000.00 | 0.00 | 0.00 | 207,000.00 |
| 6310380 | OPEN HOLE EVALUATION | 16,000.00 | 0.00 | 0.00 | 16,000.00 |
| 6310600 | MISC PUMPING SERVICE | 0.00 | 42,400.00 | 0.00 | 42,400.00 |
| 6320100 | EQPMNT SVC-SRF RNTL | 78,000.00 | 274,850.00 | 0.00 | 352,850.00 |
| 6320110 | EQUIP SVC - DOWNHOLE | 63,000.00 | 53,308.00 | 0.00 | 116,308.00 |
| 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 | 61,000.00 | 11,500.00 | 0.00 | 72,500.00 |
| 6550120 | OTHER ROUSTABOUT SER | 0.00 | 47,215.80 | 0.00 | 47,215.80 |
| 6630110 | CAPITAL OVERHEAD | 14,000.00 | 10,000.00 | 0.00 | 24,000.00 |

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 |
|---------|------------------------|----------------|------------------|----------------|--------------|
| 6740340 | TAXES OTHER | 0.00 | 108,559.00 | 0.00 | 108,559.00 |
| | Total Intangibles | 2,600,000.00 | 3,048,761.26 | 0.00 | 5,648,761.26 |

| Code | Tangible Description | Drilling Costs | Completion Costs | Dry Hole Costs | Total Costs |
|---------|----------------------|----------------|------------------|----------------|--------------|
| 6060180 | ELEC & PWRLINE EQUIP | 0.00 | 74,195.00 | 0.00 | 74,195.00 |
| 6120120 | MEASUREMENT EQUIP | 0.00 | 22,740.86 | 0.00 | 22,740.86 |
| 6130120 | COMM DEVICES - SCADA | 0.00 | 63,250.00 | 0.00 | 63,250.00 |
| 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 | 80,000.00 | 0.00 | 116,000.00 |
| 6310490 | WELL TESTING EQUIP | 0.00 | 132,515.00 | 0.00 | 132,515.00 |
| 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 | 388,000.00 | 0.00 | 0.00 | 388,000.00 |
| 6310580 | CASING COMPONENTS | 43,000.00 | 0.00 | 0.00 | 43,000.00 |
| 6320180 | EQUIPMENT OTHER | 0.00 | 157,670.36 | 0.00 | 157,670.36 |
| 6330100 | PIPE,FIT,FLANG,CPLNG | 0.00 | 112,583.66 | 0.00 | 112,583.66 |
| | Total Tangibles | 900,000.00 | 706,754.88 | 0.00 | 1,606,754.88 |

| | | | | |
|----------------------|--------------|--------------|------|--------------|
| TOTAL ESTIMATED COST | 3,500,000.00 | 3,755,516.14 | 0.00 | 7,255,516.14 |
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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.