CD#201700019 Maratho MRO AUTHORIZATION FOR EXPENDITURE	n Oil Company
DETAIL OF ESTIMATED WELL CONSTRUCTION COSTS	
Well Name: FISHER BIA 1511 1-28-33MXH Date: 3/1/2017 County: BLAINE AFE #: DX.16.41986	
Formation: MISS LIME MD: 21,500	Casts
DRILLING COSTS - TANGIBLE Surface Casing	\$39,165
Intermediate Casing	
Production Casing Wellhead Equip & Csg Access	\$148,000
TOTAL DRILLING COSTS - TANGIBLE	\$657,951
DRILLING COSTS - INTANGIBLE Location and Access	\$416,500
Rig Move	\$90,000 \$495,000
Drilling Rig Directional Services	\$170,000
Mud Fluids & Services	\$175,000
Solids Control	\$19,950
Bits	\$96,000
Casing Crew and Services	\$28,500 \$85,000
Cementing Service Rental Equipment	\$174,000
Fuel	\$94,500
Water & Water Services	\$120,500
Logging Services	\$27,900 \$20,000
Inspection Services Contract Labor	\$60,000
Freight	\$40,000
Misc Materials & Equipment	\$30,000
Telecom Services	\$4,500
Supervision & Overhead	\$165,000 \$25,800
HES Equip & Services	\$0
Coring & Analysis	\$0
Contingency	\$95,333 \$2,434,483
TOTAL DRILLING COSTS - INTANGIBLE TOTAL DRY HOLE COSTS	
	\$2,705,084
TOTAL DRILLING COSTS	\$2,705,084 \$3,092,434
COMPLETION COSTS - TANGIBLE	\$3,092,434
COMPLETION COSTS - TANGIBLE Tubing & Accessories	\$3,092,434 \$66,750
COMPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Lift	\$3,092,434 \$66,750 \$12,000
COMPLETION COSTS - TANGIBLE Tubing & Accessories	\$3,092,434 \$66,750
COMPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Life Wellinead Equipment TOTAL COMPLETION COSTS - TANGIBLE	\$3,092,434 566,750 \$12,000 \$27,800
COMPLETION COSTS - TANGIBLE Tubing & Accessories Artificial lift Wellinead Equipment TOTAL COMPLETION COSTS - TANGIBLE COMPLETION COSTS - INTANGIBLE Location and Access	\$3,092,434 \$56,750 \$12,000 \$27,800 \$106,550
COMPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Lift Wellinead Equipment TOTAL COMPLETION COSTS - TANGIBLE COMPLETION COSTS - INTANGIBLE Location and Access Completion Rig	\$3,092,434 556,750 \$12,000 \$77,800 \$106,550 \$7,500 \$20,000
COMPLETION COSTS - TANGIBLE Tubing & Accessories Artificial lift Wellinead Equipment TOTAL COMPLETION COSTS - TANGIBLE COMPLETION COSTS - INTANGIBLE Location and Access	\$3,092,434 \$56,750 \$12,000 \$27,800 \$106,550
COMPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Lift Wellinead Equipment TOTAL COMPLETION COSTS - TANGIBLE COMPLETION COSTS - INTANGIBLE Location and Access Completion Rig Colled Tubing Rental Equipment Snubbing	\$3,092,434 \$56,750 \$12,000 \$27,800 \$106,550 \$7,500 \$20,000 \$150,000 \$117,049 \$50
COMPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Lift Wellinead Equipment TOTAL COMPLETION COSTS - TANGIBLE COMPLETION COSTS - INTANGIBLE Location and Access Completion Rig Colled Tabling Rental Equipment Soubbling Fulling/Swab Units	\$3,092,434 \$566,750 \$12,000 \$27,800 \$106,550 \$7,500 \$20,000 \$150,000 \$177,049 \$50 \$50
COMPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Lift Wellinead Equipment TOTAL COMPLETION COSTS - TANGIBLE COMPLETION COSTS - INTANGIBLE Location and Access Completion Rig Colled Tubing Rental Equipment Snubbing Pulling/Swab Units Fuel	\$3,092,434 566,750 \$12,000 \$27,800 \$106,550 \$7,500 \$20,000 \$310,000 \$117,049 \$50 \$50
COMPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Lift Wellinead Equipment TOTAL COMPLETION COSTS - TANGIBLE COMPLETION COSTS - INTANGIBLE Location and Access Completion Rig Colled Tubing Rental Equipment Snubbing Pulling/Swab Units Fuel Casing Crews	\$3,092,434 \$566,750 \$12,000 \$27,800 \$106,550 \$7,500 \$20,000 \$150,000 \$177,049 \$50 \$50
COMPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Lift Wellinead Equipment TOTAL COMPLETION COSTS - TANGIBLE COMPLETION COSTS - INTANGIBLE Location and Access Completion Rig Colled Tubing Rental Equipment Snubbing Pulling/Swab Units Fuel	\$3,092,434 \$56,750 \$12,000 \$27,800 \$106,550 \$7,500 \$20,000 \$150,000 \$157,049 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50
COMPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Lift Wellinead Equipment TOTAL COMPLETION COSTS - TANGIBLE COMPLETION COSTS - INTANGIBLE Location and Access Completion Rig colled Tubing Rental Equipment Snubbing Pulling/Swab Units Fuel Casing Crews Cement Well Testing /Flowback Fracturing Services	\$3,092,434 \$56,750 \$12,000 \$27,800 \$106,550 \$7,500 \$20,000 \$3150,000 \$317,049 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50
COMPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Lift Wellinead Equipment TOTAL COMPLETION COSTS - TANGIBLE COMPLETION COSTS - INTANGIBLE Location and Access Completion Rig Colled Tubing Rental Equipment Snubbing Pulling/Swab Units Firel Casing Crews Cement Well Testing / Flowback Fracturing Services Achicizing and N2 Services	\$3,092,434 \$566,750 \$12,000 \$77,800 \$106,550 \$7,500 \$20,000 \$150,090 \$157,049 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5
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COMPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Lift Wellinead Equipment TOTAL COMPLETION COSTS - TANGIBLE COMPLETION COSTS - INTANGIBLE Location and Access Completion Rig Colled Tubing Rental Equipment Snubbing Pulling/Swab Units Fuel Casing Crews Cement Well Testing / Flowback Fracturing Services Perforating and N2 Services Perforating and Wireline Services Perforating and Wireline Services Perforating and Wireline Services Cased Hole Logging Comp. Fluids & Services	\$3,092,434 \$566,750 \$12,000 \$77,800 \$106,550 \$7,500 \$20,000 \$150,000 \$177,049 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50
COMPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Life Wellinead Equipment TOTAL COMPLETION COSTS - TANGIBLE COMPLETION COSTS - INTANGIBLE Location and Access Completion Rig Colled Tubing Rental Equipment Shubbing Pulling/Swab Units Firel Casing Crews Cement Well Testing /Flowback Fracturing Services Ackizing and N2 Services Perforating and Wireline Services Cased Hole Logging Comp Fluids & Services Came Hole & Services Cased Hole Logging Comp Fluids & Services Comp F	\$3,092,434 \$566,750 \$12,000 \$27,800 \$106,550 \$7,500 \$20,000 \$150,000 \$157,049 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50
COMPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Lift Wellinead Equipment TOTAL COMPLETION COSTS - TANGIBLE COMPLETION COSTS - INTANGIBLE Location and Access Completion Rig Colled Tubing Rental Equipment Snubing Pulling/Swab Units Fuel Casing Crews Cement Well Testing /Flowback Fracturing Services Ackizing and Wireline Services Perforating and Wireline Services Cased Hole Logging Comp Fluids & Services Water & Water Services Water & Water Services Freight	\$3,092,434 \$56,750 \$12,000 \$27,800 \$106,550 \$7,500 \$20,000 \$250,000 \$3150,000 \$517,049 \$50 \$50 \$50 \$50 \$50 \$50 \$517,490 \$517,490 \$517,490 \$517,500 \$517,500 \$517,500 \$517,500 \$517,500 \$517,500 \$517,500
COMPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Life Wellinead Equipment TOTAL COMPLETION COSTS - TANGIBLE COMPLETION COSTS - INTANGIBLE Location and Access Completion Rig Colled Tubing Rental Equipment Shubbing Pulling/Swab Units Firel Casing Crews Cement Well Testing /Flowback Fracturing Services Ackizing and N2 Services Perforating and Wireline Services Cased Hole Logging Comp Fluids & Services Came Hole & Services Cased Hole Logging Comp Fluids & Services Comp F	\$3,092,434 \$566,750 \$12,000 \$27,800 \$106,550 \$7,500 \$20,000 \$150,000 \$157,049 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50
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COMPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Lift Wellinead Equipment TOTAL COMPLETION COSTS - TANGIBLE COMPLETION COSTS - INTANGIBLE Location and Access Completion Rig Colled Tubing Rental Equipment Shubbing Pulling/Swab Units Fuel Casing Crews Coment Well Testing /Flowback Fracturing Services Achizing and Wireline Services Achizing and Wireline Services Cased Hole Logging Comp Fields & Services Water & Weter Services Freight Inspection Services Freight Inspection Services Miss Materials & Equip Frac Piegs	\$3,092,434 556,750 \$12,000 \$27,800 \$106,550 \$7,500 \$20,000 \$3150,000 \$177,049 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$5127,490 \$4,196,500 \$5,750
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COMPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Lift Wellinead Equipment TOTAL COMPLETION COSTS - TANGIBLE COMPLETION COSTS - INTANGIBLE Location and Access Completion Rig Colled Tubing Rental Equipment Snubbing Pulling/Swab Units Fuel Casing Crews Coment Well Testing / Flowback Fracturing Services Ackiring and NZ Services Perforating and WZ Services Perforating and WZ Services Water & Weter Services Water & Weter Services Freight Inspection Services Misc Materials & Equip Frac Plags Contract Labor Telecum Services His Equip & Service Supervision & Contract His Equip & Service Supervision & Contract His Equip & Service Supervision & Contract Liber Telecum Services His Equip & Service Supervision & Coverhead Tracers Surface Failities	\$3,092,434 \$56,750 \$12,000 \$27,800 \$106,550 \$7,500 \$20,000 \$250,000 \$515,000 \$50 \$50 \$50 \$50 \$50 \$50 \$51,750
COMPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Lift Wellinead Equipment TOTAL COMPLETION COSTS - TANGIBLE COMPLETION COSTS - INTANGIBLE Location and Access Completion Rig Goiled Tubing Rental Equipment Soubbing Pulling/Swab Units Fuel Casing Crews Coment Well Testing /Flowback Fracturing Services Achizing and N2 Services Perforating and Wireline Services Come Tubids & Services Water & Water Services Tesjent Tracpings Misc Materials & Equip Frac Plugs Contract Labor Telecon Services H25 Equip & Services H25 Equip & Services H25 Equip & Services H25 Equip & Services H25 Equip & Services H25 Equip & Services H25 Equip & Services Macers	\$3,092,434 \$56,750 \$12,000 \$27,800 \$106,550 \$37,500 \$20,000 \$3150,000 \$517,049 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50
COMPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Lift Wellinead Equipment TOTAL COMPLETION COSTS - TANGIBLE COMPLETION COSTS - INTANGIBLE Location and Access Completion Rig Colled Tubing Rental Equipment Snubbling Pulling/Swab Units Firel Casing Crews Coment Well Testing / Flowback Fracturing Services Perforating and Wireline Services Perforating and Wireline Services Perforating and Wireline Services Cased Hole Logging Comm Fluids & Services Water & Water Services Freight Inspection Services Miss Materials & Equip Frac Plugs Contract Labor Telecom Services HES Equip & Service Suprension & Overhead Tracers Surface Facilities Contingency	\$3,092,434 \$56,750 \$12,000 \$27,800 \$106,550 \$7,500 \$20,000 \$250,000 \$515,000 \$50 \$50 \$50 \$50 \$50 \$50 \$51,750

SIGNATURE:	
PRINTED NAME:	

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 respresentation or warrant as to the accuracy of such estimate, or construed in any way to limit a participant's responsibility to pay its proportionate share of all costs and expenses incurred in connection with the referenced operations.

TITLE:

