

Marathon

ID# 201505922

MRO AUTHORIZATION FOR EXPENDITURE
DETAIL OF ESTIMATED WELL CONSTRUCTION COSTS

Well Name: Calf Rope 1-1H	Date: 2/8/2016
County: BLAINE	AFE #: 0
Formation: MISS LIME	MD: 0
Costs	
DRILLING COSTS - TANGIBLE	
Surface Casing	\$39,195
Intermediate Casing	\$200,380
Production Casing	\$202,190
Wellhead Equip & Csg Access	\$80,000
TOTAL DRILLING COSTS - TANGIBLE	\$521,765
DRILLING COSTS - INTANGIBLE	
Location and Access	\$276,000
Rig Move	\$125,000
Drilling Rig	\$547,500
Directional Services	\$115,600
Mud Fluids & Services	\$150,000
Solids Control	\$13,300
Bits	\$80,000
Casing Crew and Services	\$35,000
Cementing Service	\$85,000
Rental Equipment	\$45,000
Fuel	\$56,250
Water & Water Services	\$50,000
Logging Services	\$12,000
Inspection Services	\$10,000
Contract Labor	\$20,000
Freight	\$15,000
Misc Materials & Equipment	\$16,000
Telecom Services	\$7,200
Supervision & Overhead	\$129,000
HES Equip & Service	\$18,000
Air Drilling Services	\$0
Coring & Analysis	\$0
Contingency	\$76,993
TOTAL DRILLING COSTS - INTANGIBLE	\$1,882,843
TOTAL DRY HOLE COSTS	\$2,152,418
TOTAL DRILLING COSTS	\$2,404,608
COMPLETION COSTS - TANGIBLE	
Tubing & Accessories	\$81,900
Artificial Lift	\$15,000
Wellhead Equipment	\$27,450
TOTAL COMPLETION COSTS - TANGIBLE	\$124,350
COMPLETION COSTS - INTANGIBLE	
Location and Access	\$7,500
Completion Rig	\$22,800
Coiled Tubing	\$135,000
Rental Equipment	\$292,084
Snubbing	\$0
Pulling/Swab Units	\$6,000
Fuel	\$0
Casing Crews	\$0
Cement	\$0
Well Testing /Flowback	\$110,000
Fracturing Services	\$1,370,000
Acidizing and N2 Services	\$0
Perforating and Wireline Services	\$76,000
Cased Hole Logging	\$8,500
Comp Fluids & Services	\$112,650
Water & Water Services	\$237,950
Freight	\$18,450
Inspection Services	\$2,500
Misc Materials & Equip	\$10,000
Frac Plugs	\$27,550
Contract Labor	\$52,500
Telecom Services	\$20,000
HES Equip & Service	\$143,500
Supervision & Overhead	\$137,800
Tracers	\$0
Surface Facilities	\$385,000
Contingency	\$0
TOTAL COMPLETION COSTS - INTANGIBLE	\$3,175,784
TOTAL COMPLETION COSTS	\$3,300,134
TOTAL WELL COSTS	\$5,704,742

SIGNATURE: _____

PRINTED NAME: _____

TITLE: _____

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 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.

FEB 24 2016

