

CD# 201604174 Marathon Oil Company

MRO AUTHORIZATION FOR EXPENDITURE

DETAIL OF ESTIMATED WELL CONSTRUCTION COSTS

Well Name: MLO33415N11W01X

Date: 9/29/2016

County: BLAINE

AFE #: DX.16.41384

Formation: MISS LIME

MD: 20,901

Costs

DRILLING COSTS - TANGIBLE

Surface Casing	\$39,165
Intermediate Casing	\$231,135
Production Casing	\$285,926
Wellhead Equip & Csg Access	\$72,000
TOTAL DRILLING COSTS - TANGIBLE	\$628,226

DRILLING COSTS - INTANGIBLE

Location and Access	\$362,500
Rig Move	\$139,500
Drilling Rig	\$1,433,750
Directional Services	\$311,000
Mud Fluids & Services	\$200,000
Solids Control	\$46,600
Bits	\$99,000
Casing Crew and Services	\$47,500
Cementing Service	\$95,425
Rental Equipment	\$247,000
Fuel	\$260,000
Water & Water Services	\$61,500
Logging Services	\$50,000
Inspection Services	\$14,250
Contract Labor	\$38,000
Freight	\$19,000
Misc Materials & Equipment	\$260,000
Telecom Services	\$23,400
Supervision & Overhead	\$262,200
HES Equip & Service	\$54,600
Air Drilling Services	\$0
Coring & Analysis	\$0
Contingency	\$183,636
TOTAL DRILLING COSTS - INTANGIBLE	\$4,208,861

TOTAL DRY HOLE COSTS

\$4,303,361

TOTAL DRILLING COSTS

\$4,837,087

COMPLETION COSTS - TANGIBLE

Tubing & Accessories	\$77,200
Artificial Lift	\$0
Wellhead Equipment	\$27,800
TOTAL COMPLETION COSTS - TANGIBLE	\$105,000

COMPLETION COSTS - INTANGIBLE

Location and Access	\$7,500
Completion Rig	\$30,000
Coiled Tubing	\$150,000
Rental Equipment	\$267,590
Snubbing	\$0
Pulling/Swab Units	\$0
Fuel	\$0
Casing Crews	\$0
Cement	\$0
Well Testing /Flowback	\$66,500
Fracturing Services	\$3,249,000
Acidizing and N2 Services	\$0
Perforating and Wireline Services	\$227,250
Cased Hole Logging	\$7,500
Comp Fluids & Services	\$228,800
Water & Water Services	\$555,150
Freight	\$22,000
Inspection Services	\$4,000
Misc Materials & Equip	\$5,500
Frac Plugs	\$123,800
Contract Labor	\$49,500
Telecom Services	\$0
HES Equip & Service	\$207,000
Supervision & Overhead	\$201,900
Tracers	\$20,000
Surface Facilities	\$422,700
Contingency	\$15,000
TOTAL COMPLETION COSTS - INTANGIBLE	\$5,860,690

TOTAL COMPLETION COSTS

\$5,965,690

TOTAL WELL COSTS

\$10,802,777

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.



OCT 25 2016