

MRO AUTHORIZATION FOR EXPENDITURE	
DETAIL OF ESTIMATED WELL CONSTRUCTION COSTS	
Well Name: <u>Mary Ann 2-8H</u>	Date: <u>9/29/2016</u>
County: <u>CANADIAN</u>	AFE #: <u>0</u>
Formation: <u>MISS LIME</u>	MD: <u>14,500</u>
	Costs
DRILLING COSTS - TANGIBLE	
Surface Casing	\$23,300
Intermediate Casing	\$158,100
Production Casing	\$45,082
Wellhead Equip & Csg Access	\$91,000
TOTAL DRILLING COSTS - TANGIBLE	\$317,482
DRILLING COSTS - INTANGIBLE	
Location and Access	\$283,000
Rig Move	\$90,000
Drilling Rig	\$320,000
Directional Services	\$107,500
Mud Fluids & Services	\$60,000
Solids Control	\$16,750
Bits	\$72,000
Casing Crew and Services	\$17,500
Cementing Service	\$35,000
Rental Equipment	\$115,000
Fuel	\$63,000
Water & Water Services	\$65,000
Logging Services	\$17,500
Inspection Services	\$20,000
Contract Labor	\$30,000
Freight	\$20,000
Misc Materials & Equipment	\$20,000
Telecom Services	\$3,000
Supervision & Overhead	\$135,000
HES Equip & Service	\$17,200
Air Drilling Services	\$0
Coring & Analysis	\$0
Contingency	\$61,528
TOTAL DRILLING COSTS - INTANGIBLE	\$1,570,078
TOTAL DRY HOLE COSTS	\$1,740,598
TOTAL DRILLING COSTS	\$1,887,560
COMPLETION COSTS - TANGIBLE	
Tubing & Accessories	\$64,114
Artificial Lift	\$12,000
Wellhead Equipment	\$27,800
TOTAL COMPLETION COSTS - TANGIBLE	\$103,914
COMPLETION COSTS - INTANGIBLE	
Location and Access	\$7,500
Completion Rig	\$120,000
Coiled Tubing	\$100,000
Rental Equipment	\$161,400
Snubbing	\$0
Pulling/Swab Units	\$0
Fuel	\$0
Casing Crews	\$0
Cement	\$0
Well Testing /Flowback	\$57,100
Fracturing Services	\$1,451,450
Acidizing and N2 Services	\$15,000
Perforating and Wireline Services	\$110,500
Cased Hole Logging	\$15,000
Comp Fluids & Services	\$130,675
Water & Water Services	\$197,725
Freight	\$23,000
Inspection Services	\$4,000
Misc Materials & Equip	\$5,500
Frac Plugs	\$42,000
Contract Labor	\$49,500
Telecom Services	\$0
HES Equip & Service	\$114,250
Supervision & Overhead	\$134,800
Tracers	\$0
Surface Facilities	\$377,700
Contingency	\$0
TOTAL COMPLETION COSTS - INTANGIBLE	\$3,121,200
TOTAL COMPLETION COSTS	\$3,225,114
TOTAL WELL COSTS	\$5,112,674

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 warranty 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 03 2016

