

CD 201604888

MRO AUTHORIZATION FOR EXPENDITURE

DETAIL OF ESTIMATED WELL CONSTRUCTION COSTS

Well Name: Willie Left Hand BIA 1-5H
 County: CANADIAN
 Formation: MISS LIME

Date: 11/15/2016
 AFE #: DX.16.41379
 MD: 17,500

Costs

DRILLING COSTS - TANGIBLE

Surface Casing	\$39,165
Intermediate Casing	\$246,980
Production Casing	\$202,650
Wellhead Equip & Csg Access	\$128,000
TOTAL DRILLING COSTS - TANGIBLE	\$616,795

DRILLING COSTS - INTANGIBLE

Location and Access	\$340,500
Rig Move	\$130,000
Drilling Rig	\$612,000
Directional Services	\$170,000
Mud Fluids & Services	\$150,000
Solids Control	\$22,050
Bits	\$72,000
Casing Crew and Services	\$28,500
Cementing Service	\$85,000
Rental Equipment	\$208,800
Fuel	\$113,400
Water & Water Services	\$98,000
Logging Services	\$33,900
Inspection Services	\$20,000
Contract Labor	\$60,000
Freight	\$40,000
Misc Materials & Equipment	\$36,000
Telecom Services	\$5,400
Supervision & Overhead	\$183,000
HES Equip & Service	\$30,960
Air Drilling Services	\$0
Coring & Analysis	\$0
Contingency	\$105,000
TOTAL DRILLING COSTS - INTANGIBLE	\$2,544,510

TOTAL DRY HOLE COSTS**\$2,818,775****TOTAL DRILLING COSTS****\$3,161,305****COMPLETION COSTS - TANGIBLE**

Tubing & Accessories	\$83,200
Artificial Lift	\$12,000
Wellhead Equipment	\$27,800
TOTAL COMPLETION COSTS - TANGIBLE	\$123,000

COMPLETION COSTS - INTANGIBLE

Location and Access	\$7,500
Completion Rig	\$25,000
Coiled Tubing	\$100,000
Rental Equipment	\$156,700
Snubbing	\$0
Pulling/Swab Units	\$0
Fuel	\$0
Casing Crews	\$0
Cement	\$0
Well Testing /Flowback	\$79,500
Fracturing Services	\$1,516,200
Acidizing and N2 Services	\$0
Perforating and Wireline Services	\$107,250
Cased Hole Logging	\$17,000
Comp Fluids & Services	\$147,896
Water & Water Services	\$217,962
Freight	\$22,000
Inspection Services	\$4,000
Misc Materials & Equip	\$5,500
Frac Plugs	\$32,400
Contract Labor	\$49,500
Telecom Services	\$0
HES Equip & Service	\$151,000
Supervision & Overhead	\$159,800
Tracers	\$0
Surface Facilities	\$402,200
Contingency	\$0
TOTAL COMPLETION COSTS - INTANGIBLE	\$3,201,408

TOTAL COMPLETION COSTS**\$3,324,408****TOTAL WELL COSTS****\$6,485,713**

SIGNATURE: _____

PRINTED NAME: _____

TITLE: _____

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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.

