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	IORIZATION FOR EXPENDITURE FESTIMATED WELL CONSTRUCTION COSTS	
Well Name: Willie Left Hand BIA 1-5H	Date: 11/15/2016	
County: CANADIAN	AFE #: DX.16.41379	
Formation: MISS LIME	MD: 17,500	Costs
ILLING COSTS - TANGIBLE		400.400
Surface Casing Intermediate Casing		\$39,165 \$246,980
Production Casing		\$202,650
Wellhead Equip & Csg Access		\$128,000
TOTAL DRILLING COSTS - TANGIBLE LLING COSTS - INTANGIBLE		\$616,795
Location and Access		\$340,500
Rig Move		\$130,000
Drilling Rig Directional Services		\$612,000 \$170,000
Mud Fluids & Services		\$150,000
Solids Control		\$22,050
Bits		\$72,000
Casing Crew and Services Cementing Service		\$28,500 \$85,000
Rental Equipment		\$208,800
Fuel		\$113,400
Water & Water Services		\$98,000
Logging Services Inspection Services		\$33,900 \$20,000
Contract Labor		\$60,000
Freight		\$40,000
Misc Materials & Equipment		\$36,000
Telecom Services Supervision & Overhead		\$5,400 \$183,000
HES Equip & Service		\$30,960
Air Drilling Services		\$0
Coring & Analysis Contingency		\$105,000
TOTAL DRILLING COSTS - INTANGIBLE		\$2,544,510
	HOLE COSTS	
TOTAL DRY TOTAL DRIL	HOLE COSTS LING COSTS	\$2,818,775 \$3,161,305
TOTAL DRY TOTAL DRIL MPLETION COSTS - TANGIBLE		\$2,818,775 \$3,161,305
TOTAL DRY TOTAL DRIL MPLETION COSTS - TANGIBLE Tubing & Accessories		\$2,818,775 \$3,161,305 \$83,200
TOTAL DRY TOTAL DRIL MPLETION COSTS - TANGIBLE		\$2,818,775 \$3,161,305 \$83,200 \$12,000
TOTAL DRY TOTAL DRIL MPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLETION COSTS - TANGIBLE		\$2,818,775 \$3,161,305 \$83,200
TOTAL DRY TOTAL DRIL MPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLETION COSTS - TANGIBLE MPLETION COSTS - INTANGIBLE		\$2,818,775 \$3,161,305 \$83,200 \$12,000 \$27,800 \$123,000
TOTAL DRY TOTAL DRIL MPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLETION COSTS - TANGIBLE MPLETION COSTS - INTANGIBLE Location and Access		\$2,818,775 \$3,161,305 \$83,200 \$12,000 \$27,800 \$123,000 \$7,500
TOTAL DRY TOTAL DRIL WPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLETION COSTS - TANGIBLE WPLETION COSTS - INTANGIBLE Location and Access Completion Rig Colled Tubing		\$2,818,775 \$3,161,305 \$83,200 \$12,000 \$27,800 \$123,000
TOTAL DRY TOTAL DRIL MPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLETION COSTS - TANGIBLE MPLETION COSTS - INTANGIBLE Location and Access Completion Rig Colled Tubing Rental Equipment		\$2,818,775 \$3,161,305 \$83,200 \$12,000 \$27,800 \$123,000 \$7,500 \$25,000 \$100,000 \$156,700
TOTAL DRY TOTAL DRIL WPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLETION COSTS - TANGIBLE WPLETION COSTS - INTANGIBLE Location and Access Completion Rig Coiled Tubing Rental Equipment Snubbing		\$2,818,775 \$3,161,305 \$3,161,305 \$32,000 \$27,800 \$123,000 \$7,500 \$25,000 \$100,000 \$156,700 \$0
TOTAL DRY TOTAL DRIL MPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLETION COSTS - TANGIBLE MPLETION COSTS - INTANGIBLE Location and Access Completion Rig Colled Tubing Rental Equipment		\$2,818,775 \$3,161,305 \$83,200 \$12,000 \$27,800 \$123,000 \$7,500 \$25,000 \$100,000 \$156,700 \$9
TOTAL DRY TOTAL DRIL MPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLETION COSTS - TANGIBLE MPLETION COSTS - INTANGIBLE Location and Access Completion Rig Colled Tubing Rental Equipment Snubbing Pulling/Swab Units Fuel Casing Crews		\$2,818,775 \$3,161,305 \$83,200 \$12,000 \$27,800 \$123,000 \$7,500 \$25,000 \$100,000 \$156,700 \$0 \$0 \$0 \$0
TOTAL DRY TOTAL DRIL WPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLETION COSTS - TANGIBLE WPLETION COSTS - INTANGIBLE Location and Access Completion Rig Colled Tubing Rental Equipment Snubbing Pulling/Swab Units Fuel Casing Crews Cement		\$2,818,775 \$3,161,305 \$83,200 \$12,000 \$27,800 \$123,000 \$150,000 \$150,000 \$156,700 \$0 \$0 \$0 \$0
TOTAL DRY TOTAL DRIL MPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLETION COSTS - TANGIBLE MPLETION COSTS - INTANGIBLE Location and Access Completion Rig Colled Tubing Rental Equipment Snubbing Pulling/Swab Units Fuel Casing Crews		\$2,818,775 \$3,161,305 \$83,200 \$12,000 \$27,800 \$123,000 \$25,000 \$150,000 \$156,700 \$0 \$0 \$0 \$0 \$0 \$7,500
TOTAL DRY TOTAL DRIL WPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLETION COSTS - TANGIBLE WPLETION COSTS - INTANGIBLE Location and Access Completion Rig Colled Tubing Rental Equipment Snubbing Pulling/Swab Units Fuel Casing Crews Cement Weil Testing /Flowback Fracturing Services		\$2,818,775 \$3,161,305 \$33,200 \$12,000 \$27,800 \$123,000 \$7,500 \$25,000 \$100,000 \$156,700 \$0 \$0 \$0 \$0
TOTAL DRY TOTAL DRIL WPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLETION COSTS - TANGIBLE MPLETION COSTS - INTANGIBLE Location and Access Completion Rig Colled Tubing Rental Equipment Snubbing Pulling/Swab Units Fuel Casing Crews Cement Weil Testing /Flowback Fracturing Services Acidizing and N2 Services Perforating and Wireline Services		\$2,818,775 \$3,161,305 \$83,200 \$12,000 \$27,800 \$123,000 \$7,500 \$25,000 \$100,000 \$156,700 \$0 \$0 \$0 \$0 \$7,500 \$156,700 \$0 \$0 \$0 \$0 \$156,700 \$0 \$0 \$0 \$156,700 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
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TOTAL DRY TOTAL DRIL WPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLETION COSTS - TANGIBLE WPLETION COSTS - INTANGIBLE Location and Access Completion Rig Colled Tubing Rental Equipment Snubbing Pulling/Swab Units Fuel Casing Crews Cement Weil Testing /Flowback Fracturing Services Perforating and W2 Services Perforating and Wireline Services Cased Hole Logging Comp Fluids & Services Water & Weiter Services Water & Weiter Services		\$2,818,775 \$3,161,305 \$3,161,305 \$12,000 \$27,800 \$123,000 \$150,000 \$150,000 \$156,700 \$0 \$0 \$0 \$7,500 \$156,700 \$0 \$0 \$15,750 \$0 \$0 \$15,750 \$15,750 \$1
TOTAL DRY TOTAL DRIL MPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLETION COSTS - TANGIBLE MPLETION COSTS - INTANGIBLE Location and Access Completion Rig Colled Tubing Rental Equipment Snubbing Pulling/Swab Units Fuel Casing Crews Cement Weil Testing /Flowback Fracturing Services Acidizing and N2 Services Perforating and Wireline Services Cased Hole Logging Comp Fluids & Services Water & Water Services Freight		\$2,818,775 \$3,161,305 \$83,200 \$12,000 \$27,800 \$123,000 \$1523,000 \$156,700 \$156,700 \$0 \$0 \$0 \$156,700 \$156,700 \$0 \$156,70
TOTAL DRY TOTAL DRIL MPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLETION COSTS - TANGIBLE MPLETION COSTS - INTANGIBLE Location and Access Completion Rig Colled Tubing Rental Equipment Snubbling Pulling/Swab Units Fuel Casing Crews Cement Weil Testing /Flowback Fracturing Services Acidizing and N2 Services Perforating and Wile Services Perforating and Wile Ine Services Cased Hole Logging Comp Fluids & Services Water & Weiter Services Mater & Weiter Services Freight Inspection Services		\$2,818,775 \$3,161,305 \$83,200 \$12,000 \$27,800 \$228,000 \$355,000 \$356,700 \$0 \$0 \$0 \$0 \$15,7500 \$0 \$107,250 \$101,7250 \$117,960 \$147,896 \$217,960 \$22,000 \$4,000
TOTAL DRY TOTAL DRIL MPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLETION COSTS - TANGIBLE MPLETION COSTS - INTANGIBLE Location and Access Completion Rig Colled Tubing Rental Equipment Snubbing Pulling/Swab Units Fuel Casing Crews Cement Weil Testing /Flowback Fracturing Services Acidizing and N2 Services Perforating and Wireline Services Cased Hole Logging Comp Fluids & Services Water & Water Services Freight		\$2,818,775 \$3,161,305 \$83,200 \$12,000 \$27,800 \$123,000 \$7,500 \$25,600 \$100,000 \$156,700 \$0 \$0 \$0 \$1,516,200 \$1,516,200 \$1,516,200 \$1,516,200 \$1,516,200 \$1,7,000 \$1,000 \$
TOTAL DRY TOTAL DRIL MPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLETION COSTS - TANGIBLE MPLETION COSTS - INTANGIBLE Location and Access Completion Rig Colled Tubing Rental Equipment Snubbling Pulling/Swab Units Fuel Casing Crews Cement Weil Testing /Flowback Fracturing Services Acidizing and N2 Services Perforating and Mile Services Cased Hole Logging Comp Fluids & Services Water & Water Services Mater & Water Services Misc Materials & Equip Frac Pluss Contract Labor		\$2,818,775 \$3,161,305 \$83,200 \$12,000 \$27,800 \$228,000 \$3100,000 \$3100,000 \$317,960 \$317,960 \$317,960 \$317,960 \$317,960 \$317,960 \$317,960 \$317,960 \$317,960
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TOTAL DRY TOTAL DRIL MPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLETION COSTS - TANGIBLE MPLETION COSTS - INTANGIBLE Location and Access Completion Rig Colled Tubing Rental Equipment Snubbling Pulling/Swab Units Fuel Casing Crews Cement Weil Testing /Flowback Fracturing Services Acidizing and N2 Services Perforating and Mile Services Cased Hole Logging Comp Fluids & Services Water & Water Services Mater & Water Services Misc Materials & Equip Frac Pluss Contract Labor		\$2,818,775 \$3,161,305 \$83,200 \$12,000 \$27,800 \$22,800 \$123,000 \$7,500 \$25,000 \$100,000 \$156,700 \$0 \$0 \$0 \$0 \$50 \$50 \$1,516,200 \$1,
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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 respresentation or warrant staff ER R. 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 construed with the referenced operations.

SIGNATURE:

EXHIBIT

C.S.R.