Marathan Oil Com	and CD: 201600724
MRO AUTHOR	ZATION FOR EXPENDITURE  MATED WELL CONSTRUCTION COSTS
Well Name: Strack 1-2-11XH	Date: 6/17/2016
County: BLAINE	AFE #: 0
Formation: MISS LIME	MD: 20,171 Costs
PRILLING COSTS - TANGIBLE	
Surface Casing	\$39,165
Intermediate Casing	\$199,099 \$275,939
Production Casing Well head Equip & Csg Access	\$72,000
TOTAL DRILLING COSTS - TANGIBLE	\$586,203
ORILLING COSTS - INTANGIBLE	Clas roo
Location and Access Rig Move	\$186,500 \$139,500
Drilling Rig	\$883,750
Directional Services	\$170,000
Mud Fluids & Services	\$190,000 \$28,600
Solids Control  Bits	\$112,000
Casing Crew and Services	\$47,500
Cementing Service	\$108,250
Rental Equipment	\$153,200 \$160,000
Fuel	\$61,500
Water & Water Services Logging Services	\$34,000
Inspection Services	\$14,250
Contract Labor	\$38,000
Freight	\$19,000 \$137,750
Misc Materials & Equipment	\$13,730
Telecom Services Supervision & Overhead	\$190,200
HES Equip & Service	\$33,600
Air Drilling Services	\$0 \$0
Coring & Analysis	\$127,239
Contingency TOTAL DRILLING COSTS - INTANGIBLE	\$2,848,519
TOTAL DRY HO	LE COSTS \$2,910,983
TOTAL DRY HO	
TOTAL DRILLING	G COSTS \$3,434,722
TOTAL DRILLING  COMPLETION COSTS - TANGIBLE  Tubing & Accessories	G COSTS \$3,434,722 \$74,690
TOTAL DRILLING  COMPLETION COSTS - TANGIBLE  Tubing & Accessories  Artificial Lift	G COSTS \$3,434,722 \$74,690 \$15,000
TOTAL DRILLING  COMPLETION COSTS - TANGIBLE  Tubing & Accessories  Artificial Lift  Wellhead Equipment	G COSTS \$3,434,722 \$74,690
TOTAL DRILLING COMPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLETION COSTS - TANGIBLE	\$ \$3,434,722 \$74,690 \$15,000 \$27,450
TOTAL DRILLING COMPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLETION COSTS - TANGIBLE	\$3,434,722 \$74,690 \$15,000 \$27,450 \$117,140
TOTAL DRILLING  COMPLETION COSTS - TANGIBLE  Tubing & Accessories  Artificial Lift  Wellhead Equipment  TOTAL COMPLETION COSTS - TANGIBLE  COMPLETION COSTS - INTANGIBLE  Location and Access  Completion Rig	\$ \$3,434,722 \$74,690 \$15,000 \$27,450 \$117,140 \$75,500 \$22,800
TOTAL DRILLING COMPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLETION COSTS - TANGIBLE COMPLETION COSTS - INTANGIBLE Location and Access Completion Rig Colled Tubing	\$3,434,722 \$74,690 \$15,000 \$27,450 \$117,140
TOTAL DRILLING COMPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLETION COSTS - TANGIBLE COMPLETION COSTS - INTANGIBLE Location and Access Completion Rig	\$3,434,722 \$74,690 \$15,000 \$27,450 \$117,140 \$7,500 \$22,800 \$22,800 \$150,000 \$342,564 \$0
TOTAL DRILLING  COMPLETION COSTS - TANGIBLE  Tubing & Accessories  Artificial Lift  Wellhead Equipment  TOTAL COMPLETION COSTS - TANGIBLE  COMPLETION COSTS - INTANGIBLE  Location and Access  Completion Rig  Coiled Tubing  Rental Equipment	\$ \$3,434,722 \$74,690 \$15,000 \$27,450 \$117,140 \$7,500 \$22,800 \$150,000 \$342,564 \$50 \$6,000
TOTAL DRILLING COMPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLETION COSTS - TANGIBLE COMPLETION COSTS - INTANGIBLE Location and Access Completion Rig Conlect Tubing Rental Equipment Snubbing Pulling/Swab Units Fuel	\$3,434,722 \$74,690 \$15,000 \$27,450 \$117,140 \$7,500 \$22,800 \$22,800 \$150,000 \$342,564 \$0
TOTAL DRILLING COMPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLETION COSTS - TANGIBLE COMPLETION COSTS - INTANGIBLE Location and Access Completion Rig Coiled Tubing Rental Equipment Snubbing Pulling/Swab Units Fuel Casing Crews	\$ \$3,434,722 \$74,690 \$15,000 \$27,450 \$117,140 \$7,500 \$22,800 \$150,000 \$342,564 \$50 \$50
TOTAL DRILLING COMPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Lift TOTAL COMPLETION COSTS - TANGIBLE COMPLETION COSTS - INTANGIBLE Location and Access Completion Rig Corled Tubing Rental Equipment Snubbing Pulling/Swab Units Fuel	\$ \$3,434,722 \$74,690 \$15,000 \$27,450 \$117,140 \$117,140 \$22,800 \$122,800 \$123,800 \$342,564 \$50 \$6,000 \$50 \$50 \$50 \$50 \$50 \$50 \$50
TOTAL DRILLING  COMPLETION COSTS - TANGIBLE  Tubing & Accessories  Artificial Lift  TOTAL COMPLETION COSTS - TANGIBLE  COMPLETION COSTS - INTANGIBLE  Location and &cess  Completion Rig  Coiled Tubing  Rental Equipment  Snubbing  Pulling/Swab Units  Fuel  Casing Crews  Cement  Well Testing /Flowback  Fracturing Services	\$ \$3,434,722 \$74,690 \$15,000 \$27,450 \$117,140 \$2,500 \$22,800 \$150,000 \$342,564 \$50 \$6,000 \$50 \$50 \$50 \$50 \$50 \$50 \$50
TOTAL DRILLING  COMPLETION COSTS - TANGIBLE  Tubing & Accessories  Artificial Lift  Wellhead Equipment  TOTAL COMPLETION COSTS - TANGIBLE  COMPLETION COSTS - INTANGIBLE  Location and Access  Completion Rig  Coiled Tubing  Rental Equipment  Snubbing  Pulling/Swab Units  Fuel  Casing Crews  Cement  Well Testing / Howback  Fracturing Services  Acidizing and N2 Services	\$ \$3,434,722 \$74,690 \$15,000 \$27,450 \$117,140 \$1,17,140 \$2,2,800 \$150,000 \$342,564 \$50 \$6,000 \$50 \$50 \$50 \$50 \$50 \$50 \$50
TOTAL DRILLING  COMPLETION COSTS - TANGIBLE  Tubing & Accessories  Artificial Lift  Wellhead Equipment  TOTAL COMPLETION COSTS - TANGIBLE  COMPLETION COSTS - INTANGIBLE  Location and Access  Completion Rig  Coiled Tubing  Rental Equipment  Snubbing  Pulling/Swab Units  Fuel  Casing Crews  Cement  Well Testing / Flowback  Fracturing Services  Acidizing and N2 Services  Perforating and Wireline Services	\$ \$3,434,722 \$74,690 \$15,000 \$27,450 \$117,140 \$2,500 \$22,800 \$150,000 \$342,564 \$50 \$6,000 \$50 \$50 \$50 \$50 \$50 \$50 \$50
TOTAL DRILLING  COMPLETION COSTS - TANGIBLE  Tubing & Accessories  Artificial Lift  Wellhead Equipment  TOTAL COMPLETION COSTS - TANGIBLE  COMPLETION COSTS - INTANGIBLE  Location and Access  Completion Rig  Coiled Tubing  Rental Equipment  Snubbing  Pulling/Swab Units  Fuel  Casing Crews  Cement  Well Testing / Howback  Fracturing Services  Acidizing and N2 Services	\$ \$3,434,722  \$ \$74,690  \$ \$15,000  \$ \$27,450  \$ \$117,140   \$ \$177,140  \$ \$22,800  \$ \$150,000  \$ \$22,800  \$ \$150,000  \$ \$342,564  \$ \$6  \$ \$6  \$ \$6  \$ \$6  \$ \$5  \$ \$6  \$ \$5  \$
TOTAL DRILLING  COMPLETION COSTS - TANGIBLE  Tubing & Accessories  Artificial Lift  Wellhead Equipment  TOTAL COMPLETION COSTS - TANGIBLE  COMPLETION COSTS - INTANGIBLE  Location and Access  Completion Rig  Coiled Tubing  Rental Equipment  Snubbing  Pulling/Swab Units  Fuel  Casing Crews  Cement  Well Testing /Flowback  Fracturing Services  Acidizing and N2 Services  Perforating and Wireline Services  Cased Hole Logging  Comp Fluids & Services  Water & Water Services  Water & Water Services	\$ \$3,434,722  \$ \$74,690  \$ \$15,000  \$ \$27,450  \$ \$117,140  \$ \$1,500  \$ \$22,800  \$ \$15,000  \$ \$22,800  \$ \$342,564  \$ \$6  \$ \$6,000  \$ \$6,000  \$ \$6,000  \$ \$50
TOTAL DRILLING COMPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLETION COSTS - TANGIBLE COMPLETION COSTS - INTANGIBLE Location and Access Completion Rig Coiled Tubing Rental Equipment Snubbing Pulling/Swab Units Fuel Casing Crews Cement Well Testing /Flowback Fracturing Services Acidizing and N2 Services Perforating and Wireline Services Cased Hole Logging Comp Fluids & Services Water & Water Services Freight	\$ \$3,434,722  \$ \$74,690  \$ \$15,000  \$ \$27,450  \$ \$117,140   \$ \$22,800  \$ \$159,000  \$ \$342,564  \$ \$50  \$ \$6,000  \$ \$6,000  \$ \$600  \$ \$50
TOTAL DRILLING COMPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLETION COSTS - TANGIBLE COMPLETION COSTS - INTANGIBLE Location and Access Completion Rig Colled Tubing Rental Equipment Snubbing Pulling/Swab Units Fuel Casing Crews Cement Well Testing / Howback Fracturing Services Acidzing and N2 Services Perforanting and Wireline Services Cased Hole Logging Comp Fluids & Services Water & Water Services Freight Inspection Services	\$ \$3,434,722  \$ \$74,690  \$ \$15,000  \$ \$27,450  \$ \$117,140  \$ \$1,500  \$ \$22,800  \$ \$15,000  \$ \$22,800  \$ \$342,564  \$ \$6  \$ \$6,000  \$ \$6,000  \$ \$6,000  \$ \$50
TOTAL DRILLING COMPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLETION COSTS - TANGIBLE COMPLETION COSTS - INTANGIBLE Location and Access Completion Rig Coiled Tubing Rental Equipment Snubbing Pulling/Swab Units Fuel Casing Crews Cement Well Testing /Flowback Fracturing Services Acidizing and N2 Services Perforating and Wireline Services Cased Hole Logging Comp Fluids & Services Water & Water Services Freight	\$ \$3,434,722  \$ \$74,690  \$ \$15,000  \$ \$27,450  \$ \$117,140   \$ \$75,500  \$ \$22,800  \$ \$150,000  \$ \$342,564  \$ \$50  \$ \$6,000  \$ \$50
TOTAL DRILLING COMPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLETION COSTS - TANGIBLE COMPLETION COSTS - INTANGIBLE Location and Access Completion Rig Coiled Tubing Rental Equipment Snubbing Pulling/Swab Units Fuel Casing Crews Cement Well Testing / Howback Fracturing Services Acidzing and N2 Services Perforating and Wireline Services Cased Hole Logging Comp Fluids & Services Water & Water Services Freight Inspection Services Misc Materials & Equip Frac Plugs Contract Labor	\$ \$3,434,722  \$ \$74,690  \$ \$15,000  \$ \$27,450  \$ \$117,140   \$ \$117,140   \$ \$12,800  \$ \$12,800  \$ \$12,800  \$ \$342,564  \$ \$0  \$ \$6,000  \$ \$6,000  \$ \$150,400  \$ \$10,000  \$ \$10,
TOTAL DRILLING COMPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Lift TOTAL COMPLETION COSTS - TANGIBLE COMPLETION COSTS - TANGIBLE Location and Access Completion Rig Coiled Tubing Rental Equipment Snubbing Pulling/Swab Units Fulling/Swab Units Full Testing /Flowback Fracturing Services Acidizing and NZ Services Perforating and Wireline Services Cased Hole Logging Comp Fluids & Services Water & Water Services Water & Water Services Water & Water Services Misc Materials & Equip Frac Plugs Contract Labor Telecom Services	\$ \$3,434,722  \$ \$74,690  \$ \$15,000  \$ \$27,450  \$ \$117,140   \$ \$75,500  \$ \$22,800  \$ \$150,000  \$ \$342,564  \$ \$50  \$ \$6,000  \$ \$50
TOTAL DRILLING COMPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLETION COSTS - TANGIBLE COMPLETION COSTS - INTANGIBLE Location and Access Completion Rig Coiled Tubing Rental Equipment Snubbing Pulling/Swab Units Fuel Casing Crews Cement Well Testing / Howback Fracturing Services Acidzing and N2 Services Perforating and Wireline Services Cased Hole Logging Comp Fluids & Services Water & Water Services Freight Inspection Services Misc Materials & Equip Frac Plugs Contract Labor	\$ \$3,434,722  \$ \$74,690  \$ \$15,000  \$ \$27,450  \$ \$117,140   \$ \$7,500  \$ \$22,800  \$ \$150,000  \$ \$342,564  \$ \$6,000  \$ \$6,000  \$ \$6,000  \$ \$6,000  \$ \$5
TOTAL DRILLING COMPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLETION COSTS - TANGIBLE COMPLETION COSTS - INTANGIBLE Location and Access Completion Rig Corled Tubing Rental Equipment Snubbing Pulling/Swab Units Fuel Casing Crews Cement Well Testing / Flowback Fracturing Services Acidizing and NZ Services Perforating and Wireline Services Cased Hole Logging Comp Fluids & Services Water & Water Services Hispection Services Misc Materials & Equip Frac Plugs Contract Labor Telecom Services HES Equip & Service Supervision & Overhead Tracers	\$ \$3,434,722  \$ \$74,690  \$ \$15,000  \$ \$27,450  \$ \$1177,140  \$ \$1177,140  \$ \$12,800  \$ \$12,800  \$ \$150,000  \$ \$342,564  \$ \$0  \$
TOTAL DRILLING COMPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLETION COSTS - TANGIBLE COMPLETION COSTS - INTANGIBLE Location and Access Completion Rig Coiled Tubing Rental Equipment Snubbing Pulling/Swab Units Fuel Casing Crews Cement Well Testing / Flowback Fracturing Services Acidizing and NZ Services Perforating and Wireline Services Cased Hole Logging Comp Fluids & Services Water & Water Services Mater & Water Services Inspection Services Misc Materials & Equip Frac Plugs Contract Labor Telecom Services MES Equip & Service Supervision & Overhead Tracers Surface Facilities	\$ \$3,434,722  \$ \$74,690  \$ \$15,000  \$ \$27,450  \$ \$177,140  \$ \$177,140  \$ \$22,800  \$ \$150,000  \$ \$342,564  \$ \$6  \$ \$6  \$ \$6  \$ \$6  \$ \$6  \$ \$6  \$ \$6  \$ \$6  \$ \$6  \$ \$7,725  \$ \$2,819,250  \$ \$150,400  \$ \$75,500  \$ \$150,400  \$ \$75,500  \$ \$272,100  \$ \$429,230  \$ \$13,950  \$ \$10,000  \$ \$75,400  \$ \$52,250  \$ \$10,000  \$ \$513,900  \$ \$117,400  \$ \$211,500  \$ \$211,500  \$ \$211,500  \$ \$211,500  \$ \$211,500  \$ \$20,000  \$ \$211,500  \$ \$20,000  \$ \$211,500  \$ \$20,000  \$ \$211,500  \$ \$20,000  \$ \$211,500
TOTAL DRILLING  COMPLETION COSTS - TANGIBLE  Tubing & Accessories  Artificial Lift  Wellhead Equipment  TOTAL COMPLETION COSTS - TANGIBLE  COMPLETION COSTS - INTANGIBLE  Location and Access  Completion Rig  Colled Tubing  Rental Equipment  Shubbing  Pulling/Swab Units  Fuel  Casing Crews  Cement  Well Testing / Flowback  Fracturing Services  Acidizing and NZ Services  Acidizing and NZ Services  Cased Hole Logging  Comp Fluids & Services  Water & Water Services  Misc Materials & Equip  Frac Plugs  Contract Labor  Telecom Services  MIS Equip & Service  Supervision & Overhead  Tracers  Surface Facilities  Contingency	\$ \$3,434,722  \$ \$74,690  \$ \$15,000  \$ \$27,450  \$ \$1177,140  \$ \$1177,140  \$ \$12,800  \$ \$12,800  \$ \$150,000  \$ \$342,564  \$ \$0  \$ \$10,000  \$ \$13,950  \$ \$44,923  \$ \$13,950  \$ \$10,000  \$ \$75,400  \$ \$15,000  \$ \$15,000  \$ \$10,000  \$ \$11,500  \$ \$12,000  \$ \$11,500  \$ \$11,500  \$ \$11,500  \$ \$11,500  \$ \$11,500  \$ \$11,500  \$ \$11,500  \$ \$11,500  \$ \$11,500  \$ \$11,500  \$ \$11,500  \$ \$11,500  \$ \$11,500  \$ \$10,000  \$ \$11,500  \$ \$
TOTAL DRILLING  COMPLETION COSTS - TANGIBLE  Tubing & Accessories  Artificial Lift  Wellhead Equipment  TOTAL COMPLETION COSTS - TANGIBLE  COMPLETION COSTS - INTANGIBLE  Location and Access  Completion Rig  Colled Tubing  Rental Equipment  Snubbing  Pulling/Swab Units  Fuel  Casing Crews  Cement  Well Testing /Flowback  Fracturing Services  Acidizing and NZ Services  Perforating and Wireline Services  Cased Nole Logging  Comp Fluids & Services  Water & Water Services  Hispection Services  Misc Materials & Equip  Frac Plugs  Contract Labor  Telecom Services  MES Equip & Services  Surface Facilities	\$ \$3,434,722  \$ \$74,690  \$ \$15,000  \$ \$27,450  \$ \$1177,140  \$ \$1177,140  \$ \$12,800  \$ \$12,800  \$ \$150,000  \$ \$342,564  \$ \$0  \$ \$150,400  \$ \$77,500  \$ \$277,100  \$ \$429,230  \$ \$429,230  \$ \$429,230  \$ \$13,950  \$ \$45,500  \$ \$10,000  \$ \$75,400  \$ \$52,750  \$ \$10,000  \$ \$10,000  \$ \$10,000  \$ \$10,000  \$ \$10,000  \$ \$10,000  \$ \$11,500  \$ \$10,000  \$ \$11,500  \$ \$10,000  \$ \$11,500  \$ \$10,000  \$ \$11,500  \$ \$10,000  \$ \$11,150  \$ \$10,00

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JUN 202016

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