Macathan Oil Com	Dand CD# 201603003	
MRO AUTI	ORIZATION FOR EXPENDITURE	
DETAIL C	OF ESTIMATED WELL CONSTRUCTION COSTS	
Well Name: Calf Rope 1-1-12XH	Date: 8/1/2016	
County: BLAINE	AFE #: DX.15.39160	
Formation: MISS LIME	MD: 15,465	
DRILLING COSTS - TANGIBLE	Costs	
Surface Casing	\$39,1	65
Intermediate Casing	\$200,3	
Production Casing	\$235,8	41
Wellhead Equip & Csg Access	\$85,0	
TOTAL DRILLING COSTS - TANGIBLE	\$560,38	36
DRILLING COSTS - INTANGIBLE	***	
Location and Access Rig Move	\$342, \$140,	
Drilling Rig	\$805,0	
Directional Services	\$212,	900
Mud Fluids & Services	\$150,0	000
Solids Control	\$28,	
Bits	\$85,0	
Casing Crew and Services Cementing Service	\$47,	
Rental Equipment	\$108,i \$155,i	
Fuel	\$160,0	
Water & Water Services	\$61,5	
Logging Services	\$34,0	000
Inspection Services	\$14,2	250
Contract Labor	\$38,0	_
Freight	\$19,0	_
Misc Materials & Equipment Telecom Services	\$160,0	
Supervision & Overhead	\$14,4 \$115,2	
HES Equip & Service	\$33,6	
Air Drifling Services		\$0
Coring & Analysis		\$0
Contingency	\$119,6	80
TOTAL DRILLING COSTS - INTANGIBLE	Ć7 DAE 70	Λ
	\$2,845,28	<u> </u>
TOTAL DRY	7 HOLE COSTS \$2,922,02	
		5
TOTAL DRI	Y HOLE COSTS \$2,922,02	5
TOTAL DRI  COMPLETION COSTS - TANGIBLE  Tubing & Accessories	7 HOLE COSTS \$2,922,02 LLING COSTS \$3,405,66	5 6 40
TOTAL DRI  COMPLETION COSTS - TANGIBLE  Tubing & Accessories  Artificial Lift	7 HOLE COSTS \$2,922,02 LLING COSTS \$3,405,66  \$65,24 \$15,00	5 6 40 00
TOTAL DRI COMPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Lift Wellhead Equipment	7 HOLE COSTS \$2,922,02 LLING COSTS \$3,405,66  \$65,24 \$15,00 \$27,43	5 6 40 00 50
TOTAL DRI COMPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLETION COSTS - TANGIBLE	7 HOLE COSTS \$2,922,02 LLING COSTS \$3,405,66  \$65,24 \$15,00	5 6 40 00 50
TOTAL DRI COMPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLETION COSTS - TANGIBLE COMPLETION COSTS - INTANGIBLE	/ HOLE COSTS \$2,922,02 LLING COSTS \$3,405,66  \$65,24 \$15.00 \$274.4 \$107,69	5 6 40 00 50 0
TOTAL DRI COMPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLETION COSTS - TANGIBLE	7 HOLE COSTS \$2,922,02 LLING COSTS \$3,405,66 \$65,24 \$15,00 \$27.49 \$107,69	5 6 40 00 50 0
TOTAL DRI COMPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLETION COSTS - TANGIBLE COMPLETION COSTS - INTANGIBLE Location and Access Completion Rig Coiled Tubing	/ HOLE COSTS \$2,922,02 LLING COSTS \$3,405,66  \$65,24 \$15.00 \$274.4 \$107,69	5 6 40 00 50 0
TOTAL DRI 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	/ HOLE COSTS \$2,922,02 LLING COSTS \$3,405,66  \$65,24 \$15,00 \$27,44 \$107,69  \$7,50 \$22,80 \$515,00 \$52,80 \$5342,50	5 6 40 00 00 00 00 00 54
TOTAL DRI 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	7 HOLE COSTS \$2,922,02 LLING COSTS \$3,405,66 \$55,2- \$15,00 \$27,4: \$107,69 \$7,50 \$22,8( \$150,00 \$342,55	5 6 40 00 00 00 00 00 00 54 50 0
TOTAL DRI 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	/ HOLE COSTS         \$2,922,02           LLING COSTS         \$3,405,66           \$65,24         \$15,00           \$27,44         \$107,69           \$72,86         \$150,00           \$150,00         \$342,56           \$6,00         \$6,00	50 00 00 00 00 00 00 00 00 00 00 00 00
TOTAL DRI 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	/ HOLE COSTS \$2,922,02 LLING COSTS \$3,405,66  \$55,24 \$150,00 \$77,69  \$77,69  \$75,28 \$150,00 \$342,56	50 00 00 00 00 00 50 00 50 50
TOTAL DRI 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	## HOLE COSTS \$2,922,02 LLING COSTS \$3,405,66  \$65,24  \$15,00  \$27,44  \$107,69  \$7,56  \$2,86  \$150,00  \$340,56	6 40 00 00 00 00 00 00 00 00 00 00 00 00
TOTAL DRI 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	7 HOLE COSTS \$2,922,02 LLING COSTS \$3,405,66  \$65,2- \$15,00 \$27,4: \$107,69  \$7,50 \$22,8( \$150,00 \$342,5(	6 40 00 00 00 00 00 00 00 00 00
TOTAL DRI COMPLETION COSTS - TANGIBLE Tubing & Accessories Artificial Lift Wellheadt quipment 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	## HOLE COSTS \$2,922,02 LLING COSTS \$3,405,66  \$65,24  \$15,00  \$27,44  \$107,69  \$7,56  \$2,86  \$150,00  \$340,56	5 6 40 000 00 00 00 00 00 00 00 00 00 00 00
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TOTAL DRI 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	## HOLE COSTS \$2,922,02 LLING COSTS \$3,405,66  \$65,24 \$15,06 \$27,44 \$107,69  \$7,56 \$72,86 \$150,06 \$342,56 \$5342	5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
TOTAL DRI COMPLETION COSTS - TANGIBLE Tubling & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLETION COSTS - TANGIBLE COMPLETION COSTS - INTANGIBLE Location and Access Completion Rig Coiled Tubling Rental Equipment Snubbing Pulling/Swab Units Fuel Casing Crews Cement Well Testing /Flowback Fracturing Services Acidizing and Ni Services Perforating and Wireline Services Cased Hole Logging	## HOLE COSTS \$2,922,02 LLING COSTS \$3,405,66  \$55,24 \$15,00 \$27,44 \$107,69  \$7,56 \$22,86 \$15,00 \$342,56 \$5,00 \$342,56 \$5,00 \$342,56 \$5,00	5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
TOTAL DRI 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	/ HOLE COSTS \$2,922,02 LLING COSTS \$3,405,66  \$55,24 \$150,00 \$77,69  \$77,69  \$75,28 \$150,00 \$342,54 \$50,00 \$542,54 \$55,28	5 6 6 00 00 00 00 00 00 00 00 00 00 00 00
TOTAL DRI COMPLETION COSTS - TANGIBLE Tubling & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLETION COSTS - TANGIBLE COMPLETION COSTS - INTANGIBLE Location and Access Completion Rig Coiled Tubling Rental Equipment Snubbing Pulling/Swab Units Fuel Casing Crews Cement Well Testing /Flowback Fracturing Services Acidizing and Ni Services Perforating and Wireline Services Cased Hole Logging	/ HOLE COSTS \$2,922,02 LLING COSTS \$3,405,66  \$65,24 \$15,00 \$15,00 \$7,56 \$22,86 \$155,00 \$515,00 \$542,50 \$52,86 \$5342,50 \$53,00 \$	5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
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TOTAL DRI 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 Per forating and Wireline Services Cased Hole Logging Comp Fluids & Services Water & Water Services Freight Inspection Services Misc Materials & Equip	## HOLE COSTS \$2,922,02 LLING COSTS \$3,405,66  \$65,24 \$15,00 \$27,44 \$107,69  \$7,50 \$22,80 \$150,00 \$342,50 \$542,50 \$579,72 \$2,805,00 \$579,72 \$2,805,00 \$515,04 \$515,04 \$515,04 \$515,04 \$515,04 \$515,04 \$515,04 \$515,04 \$515,04 \$515,04	5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
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TOTAL DRI 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 Inspection Services Misc Materials & Equip Frac Plugs Contract Labor Telecom Services	/ HOLE COSTS         \$2,922,02           LLING COSTS         \$3,405,66           \$55,24         \$15,00           \$77,69         \$75,50           \$150,00         \$342,56           \$150,00         \$342,56           \$22,80         \$350,00           \$342,56         \$36,00           \$342,56         \$360,00           \$342,56         \$360,00           \$342,56         \$360,00           \$342,50         \$360,00           \$342,60         \$360,00           \$342,60         \$360,00           \$342,60         \$360,00           \$342,60         \$360,00           \$342,60         \$360,00           \$342,60         \$360,00           \$343,60         \$360,00           \$343,60         \$360,00           \$343,60         \$360,00           \$343,60         \$360,00           \$343,60         \$360,00           \$343,60         \$360,00           \$343,60         \$360,00           \$343,60         \$360,00           \$343,60         \$360,00           \$343,60         \$360,00           \$343,60         \$360,00           \$343,60	5 6 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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TOTAL DRI COMPLETION COSTS - TANGIBLE Tubling & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLETION COSTS - TANGIBLE COMPLETION COSTS - INTANGIBLE Location and Access Completion Rig Coiled Tubling 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 Misc Materials & Equip Frac Plugs Contract Labor Telecom Services HES Equip & Service HES Equip & Service Supervision & Overhead Tracers	## HOLE COSTS \$2,922,02 LLING COSTS \$3,405,66  \$65,24 \$15,00 \$27,44 \$107,69  \$7,55 \$22,86 \$150,06 \$342,56 \$542,56 \$542,56 \$542,56 \$543,86 \$543	5 6 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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TOTAL DRI 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 Inspection Services Misc Materials & Equip Frac Plus Frac Plus Equipment MES Equip & Service Supervision & Overhead Tracers Surface Facilities Contingency	/ HOLE COSTS         \$2,922,02           LLING COSTS         \$3,405,66           \$55,24         \$15,00           \$77,69         \$75,60           \$72,86         \$150,00           \$342,56         \$342,56           \$59,77         \$2,805,00           \$75,50         \$2,805,00           \$75,50         \$24,92,30           \$13,90         \$42,92           \$15,94         \$15,94           \$13,90         \$45,50           \$15,94         \$25,94           \$15,94         \$25,94           \$10,90         \$10,90           \$10,90         \$21,55           \$174,40         \$20,00           \$41,20         \$41,20           \$41,20         \$41,20	5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
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TOTAL DRI 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 Ni2 Services Acidizing and Ni2 Services Cased Hole Logging Comp Fluids & Services Water & Water Services Freight Inspection Services Mise Materials & Equip Frac Plugs Contract Labor Telecom Services HES Equip & Services Supervision & Overhead Tracers Surface Facilities Contingency TOTAL COMPLETION COSTS - INTANGIBLE	HOLE COSTS   \$2,922,02	5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6

EXHIBIT 2
OR C.S.R. C. AL REPORTE

AUG 16 2016

SIGNATURE:	 	 
PRINTED NAME:		
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TITLE:		