1		IORIZATION FOR EXPENDITURE	ă.
1	and the second s	F ESTIMATED WELL CONSTRUCTION COSTS	
	IL170016N05W01H	Date: 11/2/2016  AFE #: DX.16.41465	
County: Kli Formation: M		MD: 11,500	-
		IVER. SANJOOD	Costs
DRILLING COSTS - TANGIBLE			
Surface Casing Intermediate Casing			\$52,220 \$0
Production Casing			\$133,170
Wellhead Equip & Csg			\$105,000
TOTAL DRILLING DRILLING COSTS - INTAI	COSTS - TANGIBLE		\$290,390
Location and Access	NGIBLE		\$345,500
Rig Move			\$139,500
Drilling Rig			\$574,250
Directional Services Mud Flülds & Services			\$101,460
Solids Control	·		\$142,500 \$16,055
Bits			\$72,000
Casing Crew and Servi	ices		\$33,250
Cementing Service			\$61,750
Rental Equipment Fuel			\$51,390 \$152,000
Water & Water Service	ces		\$47,200
Logging Services			\$21,000
Inspection Services			\$9,500
Contract Labor	· · · · · · · · · · · · · · · · · · ·		\$28,500
Freight Misc Materials & Equi	nmant		\$14,250 \$76,000
Telecom Services	pittenc		\$76,000
Supervision & Overhe	ad		\$143,400
HES Equip & Service			\$29,950
Air Drilling Services Coring & Analysis			<u>\$0</u>
Contingency		The state of the s	\$86,599
	COSTS - INTANGIBLE		\$2,154,087
I SALLER MINISTER			34,134,007
		HOLE COSTS	\$2,124,007
	TOTAL DRY	' HOLE COSTS LLING COSTS	
COMPLETION COSTS - TA	TOTAL DRY		\$2,124,007
COMPLETION COSTS - T, Tubing & Accessories	TOTAL DRY		\$2,124,007 \$2,444,477 \$83,200
COMPLETION COSTS - T. Tubing & Accessories Artificial Lift	TOTAL DRY		\$2,124,007 \$2,444,477 \$83,200 \$12,000
COMPLETION COSTS - T, Tubing & Accessories Artificial Lift Wellhead Equipment	TOTAL DRY		\$2,124,007 \$2,444,477 \$83,200
COMPLETION COSTS - T, Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLET COMPLETION COSTS - IN	TOTAL DRY TOTAL DRI ANGIBLE TION COSTS - TANGIBLE	LLING COSTS	\$2,124,007 \$2,444,477 \$83,200 \$12,000 \$27,800
COMPLETION COSTS - T, Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLET COMPLETION COSTS - IN Location and Access	TOTAL DRY TOTAL DRI ANGIBLE TION COSTS - TANGIBLE		\$2,124,007 \$2,444,477 \$83,200 \$12,000 \$27,800 \$123,000
COMPLETION COSTS - T. Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLET COMPLETION COSTS - IN Location and Access Completion Rig	TOTAL DRY TOTAL DRI ANGIBLE TION COSTS - TANGIBLE	LLING COSTS	\$2,124,007 \$2,444,477 \$83,200 \$12,000 \$7,800 \$123,000 \$7,500 \$30,000
COMPLETION COSTS - T, Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLET COMPLETION COSTS - IN Location and Access Completion Rig Coiled Tubing Rental Equipment	TOTAL DRY TOTAL DRI ANGIBLE TION COSTS - TANGIBLE	LLING COSTS	\$2,124,007 \$2,444,477 \$83,200 \$12,000 \$27,800 \$123,000 \$7,500 \$30,000 \$100,000
COMPLETION COSTS - T. Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLET COMPLETION COSTS - IN Location and Access Completion Rig Coiled Tubing Rental Equipment Snubbing:	TOTAL DRY TOTAL DRI ANGIBLE TION COSTS - TANGIBLE	LLING COSTS	\$2,124,007 \$2,444,477 \$83,200 \$12,000 \$27,800 \$123,000 \$7,500 \$30,000 \$100,000 \$159,670 \$0
COMPLETION COSTS - T, Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLET COMPLETION COSTS - IN Location and Access Completion Rig Coiled Tubing Rental Equipment Snubbing: Pulling/Swab Units	TOTAL DRY TOTAL DRI ANGIBLE TION COSTS - TANGIBLE	LLING COSTS	\$2,124,007 \$2,444,477 \$83,200 \$12,000 \$27,800 \$123,000 \$100,000 \$100,000 \$159,570 \$0 \$0
COMPLETION COSTS - T, Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLET COMPLETION COSTS - IN Location and Access Completion Rig Coiled Tubing Rental Equipment Snubbing Pulling/Swab Units Fuel	TOTAL DRY TOTAL DRI ANGIBLE TION COSTS - TANGIBLE	LLING COSTS	\$2,124,007 \$2,444,477 \$83,200 \$12,000 \$27,800 \$123,000 \$7,500 \$30,000 \$100,000 \$159,670 \$0 \$0
COMPLETION COSTS - T, Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLET COMPLETION COSTS - IN Location and Access Completion Rig Coiled Tubing Rental Equipment Snubbing: Pulling/Swab Units	TOTAL DRY TOTAL DRI ANGIBLE TION COSTS - TANGIBLE	LLING COSTS	\$2,124,007 \$2,444,477 \$83,200 \$12,000 \$27,800 \$123,000 \$100,000 \$100,000 \$159,670 \$0 \$0 \$0
COMPLETION COSTS - T. Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLET COMPLETION COSTS - IN Location and Access Completion Rig Coiled Tubing Rental Equipment Snubbing: Pulling/Swab Units Fuel Casing Crews Cement Well Testing /Flowbecl	TOTAL DRY TOTAL DRI ANGIBLE  TION COSTS - TANGIBLE  TTANGIBLE	LLING COSTS	\$2,124,007 \$2,444,477 \$83,200 \$12,000 \$27,800 \$123,000 \$100,000 \$100,000 \$159,670 \$0 \$0 \$0 \$0 \$0 \$0
COMPLETION COSTS - T. Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLET COMPLETION COSTS - IN Location and Access Completion Rig Coiled Tubing Rental Equipment Snubbing: Pulling/Swab Units Fuel Casing Crews Cement Well Testing/Flowbact Fracturing Services	TOTAL DRY TOTAL DRI ANGIBLE  FION COSTS - TANGIBLE NTANGIBLE	LLING COSTS	\$2,124,007 \$2,444,477 \$83,200 \$12,000 \$27,800 \$123,000 \$100,000 \$100,000 \$159,670 \$0 \$0 \$0 \$0 \$1,500 \$1,600 \$1,600 \$1,600 \$1,600 \$1,600 \$1,600 \$1,600 \$1,600 \$1,600
COMPLETION COSTS - T, Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLET COMPLETION COSTS - IN Location and Access Completion Rig Coiled Tubing Rental Equipment Snubbing Pulling/Swab Units Fuel Casing Crews Cement Well Testing /Flowbacl Fracturing Services Acidizing and N2 Services	TOTAL DRY TOTAL DRI ANGIBLE  TION COSTS - TANGIBLE VTANGIBLE  k	LLING COSTS	\$2,124,007 \$2,444,477 \$3,200 \$12,000 \$27,800 \$123,000 \$100,000 \$159,670 \$0 \$0 \$0 \$0 \$1,610,000 \$1,610,000
COMPLETION COSTS - T, Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLET COMPLETION COSTS - IN Location and Access Completion Rig Coiled Tubing Rental Equipment Snubbing Pulling/Swab Units Fuel Casing Crews Cement Well Testing /Flowbacl Fracturing Services Acidizing and NZ Service	TOTAL DRY TOTAL DRI ANGIBLE  TION COSTS - TANGIBLE VTANGIBLE  k	LLING COSTS	\$2,124,007 \$2,444,477 \$83,200 \$12,000 \$27,800 \$123,000 \$100,000 \$100,000 \$159,670 \$0 \$0 \$0 \$0 \$0 \$15,610,000 \$15,610,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
COMPLETION COSTS - T. Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLET COMPLETION COSTS - IN Location and Access Completion Rig Coiled Tubing Rental Equipment Snubbing Pulling/Swab Units Fuel Casing Crews Cement Well Testing /Flowbad Fracturing Services Acidizing and N2 Service Acidizing and Wireli Cased Hole Logging Comp Fluids & Services Comp Fluids & Services	TOTAL DRY TOTAL DRI ANGIBLE  FION COSTS - TANGIBLE VIANGIBLE  k  ces ne Services s	LLING COSTS	\$2,124,007 \$2,444,477 \$3,200 \$12,000 \$27,800 \$123,000 \$100,000 \$159,670 \$0 \$0 \$0 \$0 \$1,610,000 \$1,610,000
COMPLETION COSTS - T, Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLET COMPLETION COSTS - IN Location and Access Completion Rig Coiled Tubing Rental Equipment Snubbing Pulling/Swab Units Fuel Casing Crews Cement Well Testing /Flowbacl Fracturing Service Actifizing and NZ Service Valer & Water Service Water & Water Service	TOTAL DRY TOTAL DRI ANGIBLE  FION COSTS - TANGIBLE VIANGIBLE  k  ces ne Services s	LLING COSTS	\$2,124,007 \$2,444,477 \$883,200 \$12,000 \$27,800 \$123,000 \$100,000 \$100,000 \$159,570 \$0 \$0 \$0 \$0 \$10,000 \$159,670 \$0 \$1,610,000 \$1,610,000 \$142,500 \$142,500 \$188,500
COMPLETION COSTS - T, Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLET COMPLETION COSTS - IN Location and Access Completion Rigs Coiled Tubing Rental Equipment Snubbing: Pulling/Swab Units Fuel Casing Crews Cement Well Testing /Flowbacl Fracturing Services Acidzing and N2 Service Acidzing and Wireli Cased Hole Logging Comp Fluids & Services Water & Water Service Water & Water Service Freight	TOTAL DRY TOTAL DRI ANGIBLE  FION COSTS - TANGIBLE VIANGIBLE  k  ces ne Services s	LLING COSTS	\$2,124,007 \$2,444,477 \$83,200 \$12,000 \$27,800 \$123,000 \$100,000 \$100,000 \$19,570 \$0 \$0 \$0 \$0 \$0 \$10,000 \$159,670 \$0 \$0 \$0 \$1,610,000
COMPLETION COSTS - T. Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLET COMPLETION COSTS - IN Location and Access Completion Rig Coiled Tubing Rental Equipment Snubbing Pulling/Swab Units Fuel Casing Crews Cement Well Testing /Flowbacl Fracturing Services Acidizing and NZ Service Acidizing and NZ Service Perforating and Wirelin Cased Mole Logging Comp Fluids & Services Water & Water Service Freight Inspection Services	TOTAL DRY TOTAL DRI ANGIBLE  FION COSTS - TANGIBLE VITANGIBLE  k  ces ne Services s s	LLING COSTS	\$2,124,007 \$2,444,477 \$2,444,477 \$12,000 \$27,800 \$123,000 \$130,000 \$100,000 \$159,670 \$0 \$0 \$0 \$1,610,000 \$1,61
COMPLETION COSTS - T, Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLET COMPLETION COSTS - IN Location and Access Completion Rigs Coiled Tubing Rental Equipment Snubbing: Pulling/Swab Units Fuel Casing Crews Cement Well Testing /Flowbacl Fracturing Services Acidzing and N2 Service Acidzing and Wireli Cased Hole Logging Comp Fluids & Services Water & Water Service Water & Water Service Freight	TOTAL DRY TOTAL DRI ANGIBLE  FION COSTS - TANGIBLE VITANGIBLE  k  ces ne Services s s	LLING COSTS	\$2,124,007 \$2,444,477 \$83,200 \$12,000 \$27,800 \$123,000 \$100,000 \$100,000 \$19,570 \$0 \$0 \$0 \$0 \$0 \$10,000 \$159,670 \$0 \$0 \$0 \$1,610,000
COMPLETION COSTS - T. Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLET COMPLETION COSTS - IN Location and Access Completion Rig Coiled Tubing Rental Equipment Snubbing Pulling/Swab Units Fuel Casing Crews Cement Well Testing /Flowbacl Fracturing Services Acidizing and NZ Service Macing Cased Mole Logging Comp Fluids & Services Water & Water Service Freight Inspection Services Misc Materials & Equip Frac Pluss Contract Labor	TOTAL DRY TOTAL DRI ANGIBLE  FION COSTS - TANGIBLE VITANGIBLE  k  ces ne Services s s	LLING COSTS	\$2,124,007 \$2,444,477 \$2,444,477 \$12,000 \$27,800 \$123,000 \$130,000 \$100,000 \$159,670 \$0 \$0 \$0 \$1,610,000 \$1,61
COMPLETION COSTS - T. Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLET COMPLETION COSTS - IN Location and Access Completion Rig Coiled Tubing Rental Equipment Snubbing Pulling/Swab Units Fuel Casing Crews Cement Well Testing /Flowbacl Fracturing Services Acidizing and NZ Service Perforating and Wireli Cased Hole Logging Comp Fluids & Services Water & Water Service Freight Inspection Services Misc Materials & Equip Frac Plugs Contract Labor Telecom Services	TOTAL DRY TOTAL DRI ANGIBLE  FION COSTS - TANGIBLE VITANGIBLE  k  ces ne Services s s	LLING COSTS	\$2,124,007 \$2,444,477 \$2,444,477 \$12,000 \$27,800 \$123,000 \$123,000 \$100,000 \$159,670 \$0 \$0 \$0 \$1,610,000 \$1,61
COMPLETION COSTS - T. Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLET COMPLETION COSTS - IN Location and Access Completion Rig Coiled Tubing Rental Equipment Snubbing Pulling/Swab Units Fuel Casing Crews Cement Well Testing /Flowbacl Fracturing Services Acidizing and NZ Service Macing Cased Mole Logging Comp Fluids & Services Water & Water Service Freight Inspection Services Misc Materials & Equip Frac Pluss Contract Labor	TOTAL DRY TOTAL DRI ANGIBLE  TION COSTS - TANGIBLE  UTANGIBLE  k  ces ne Services s s	LLING COSTS	\$2,124,007 \$2,444,477 \$883,200 \$12,000 \$27,800 \$123,000 \$100,000 \$100,000 \$159,570 \$0 \$0 \$0 \$0 \$1,610,000 \$1,610,000 \$1,610,000 \$1,610,000 \$1,610,000 \$1,620,000 \$1,6
COMPLETION COSTS - T. Tybing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLET COMPLETION COSTS - IN Location and Access Completion Rig Coiled Tubing Rental Equipment Snubbing Pulling/Swab Units Fuel Casing Crews Cement Well Testing /Flowbacl Fracturing Services Acidizing and NZ Service Perforating and Wireli Cased Hole Logging Comp Fluids & Services Water & Water Service Freight Inspection Services Misc Materials & Equip Frac Plugs Contract Labor Telecom Services HES Equip & Services HES Equip & Services Supervision & Overhea Tracers	TOTAL DRY TOTAL DRI ANGIBLE  TION COSTS - TANGIBLE  UTANGIBLE  k  ces ne Services s s	LLING COSTS	\$2,124,007 \$2,444,477 \$2,444,477 \$12,000 \$27,800 \$123,000 \$123,000 \$100,000 \$159,670 \$0 \$0 \$0 \$1,610,000 \$1,61
COMPLETION COSTS - T, Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLET COMPLETION COSTS - IN Location and Accessories Completion Rig Coiled Tubing Rental Equipment Snubbing Pulling/Swab Units Fuel Casing Crews Cement Well Testing /Flowbacl Fracturing Services Acidizing and NZ Service Perforating and Wireli Cased Hole Logging Comp Fluids & Service Water & Water Service Freight Inspection Services Misc Materials & Equip Frac Plugs Contract Labor Telecom Services HES Equip & Service. Supervision & Overhea Tracers Tracers Surface Facilities	TOTAL DRY TOTAL DRI ANGIBLE  TION COSTS - TANGIBLE  UTANGIBLE  k  ces ne Services s s	LLING COSTS	\$2,124,007 \$2,444,477  \$83,200 \$12,000 \$27,800 \$123,000  \$57,500 \$30,000 \$100,000 \$159,570 \$0 \$0 \$0 \$0 \$0 \$59,000 \$1,610,000 \$155,600 \$0 \$155,600 \$135,000 \$34,000 \$34,000 \$34,000 \$35,000 \$34,000 \$35,000 \$34,000 \$35,000
COMPLETION COSTS - T. Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLET COMPLETION COSTS - IN Location and Access Completion Rig Coiled Tubing Rental Equipment Snubbing: Pulling/Swab Units Fuel Casing Crews Cement Well Testing /Flowbact Fracturing Services Acidizing and NZ Service Water & Water Service Peright Inspection Services Misc Materials & Equip Frac Plus Contract Labor Telecom Services HES Equip & Service Supervision & Overhea Tracers Surface Facilities Contringency	TOTAL DRY TOTAL DRI ANGIBLE  FION COSTS - TANGIBLE VITANGIBLE  k  ces ne Services s ses	LLING COSTS	\$2,124,007 \$2,444,477 \$883,200 \$12,000 \$27,800 \$123,000 \$123,000 \$100,000 \$159,670 \$0 \$0 \$0 \$0 \$0 \$1,610,000 \$
COMPLETION COSTS - T. Tubing & Accessories Artificial Lift Wellhead Equipment TOTAL COMPLET COMPLETION COSTS - IN Location and Access Completion Rig Coiled Tubing Rental Equipment Snubbing: Pulling/Swab Units Fuel Casing Crews Cement Well Testing /Flowbact Fracturing Services Acidizing and NZ Service Water & Water Service Peright Inspection Services Misc Materials & Equip Frac Plus Contract Labor Telecom Services HES Equip & Service Supervision & Overhea Tracers Surface Facilities Contringency	TOTAL DRY TOTAL DRI ANGIBLE  FION COSTS - TANGIBLE  VTANGIBLE  k  ces ne Services  s es	LLING COSTS	\$2,124,007 \$2,444,477  \$883,200 \$12,000 \$27,800 \$123,000  \$57,500 \$30,000 \$100,000 \$159,570 \$50 \$50 \$50 \$50 \$50 \$50 \$5123,000 \$155,600 \$515,600 \$515,600 \$515,600 \$515,600 \$515,000 \$515,000 \$515,000 \$515,000 \$515,000 \$515,000 \$515,000 \$515,000 \$515,000 \$515,000 \$515,000 \$515,000 \$515,000 \$515,000 \$515,000 \$515,000 \$515,000 \$516,000 \$515,000 \$516,000 \$515,000 \$516,000 \$515,000 \$516,000 \$515,000 \$515,000 \$515,000 \$515,000 \$515,000

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 respresentation or warrant 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.