	DETAIL OF ESTI	IZATION FOR EXPENDITURE MATED WELL CONSTRUCTION COSTS	
		Date: 6/26/2017	
	IVA O MCCABE 1409 1-3-34WXH CANADIAN	AFE #: DX.17.42989	
	WOODFORD	MD: 20,500	
FOITHACION.	TTOODFORE		Costs
ILLING COSTS - TA	NGIBLE	•	420.4cm
Surface Casing			\$39,165 \$174,750
Intermediate Casi		· · · · · · · · · · · · · · · · · · ·	\$237,390
Production Casing			\$148,000
Wellhead Equip 8			\$599,305
	ING COSTS - TANGIBLE		3339,303
ILLING COSTS - IN			\$416,500
Location and Acc R.g Move	255		\$130,000
Driding Rig			\$495,000
Directional Service	-Di		\$170,000
Mud Fluids & Sen			\$150,000
Solids Control			\$19,950
Bits			\$96,000
Casing Crew and	Services	· · · · · · · · · · · · · · · · · · ·	\$28,500
Cementing Service			\$85,000
Rental Equipmen			\$174,000
Fuel			\$94,500
Water & Water S	ervices		\$120,500
Logging Services			527,900
inspection Service	es		\$20,000
Contract Labor			\$60,000
Freight			\$40,000
Misc Materials &	Fauinment		\$30,000
Telecom Services			\$4,500
Supervision & Ov			\$165,000
HES Equip & Serv			\$25,800
Air Drilling Service			\$0
Coring & Analysis			\$0
Contingency			\$95,000
TOTAL DRILL	ING COSTS - INTANGIBLE		\$2,448,150
TOTAL DRY HOLE COSTS		\$2,680,523	
	TOTAL DRILLIN	G COSTS	\$3,047,455
OMPLETION COST			
Tubing & Accesso	***************************************		
	pries		\$56,050
	pries		\$56,050 \$12,000
Artificial Lift			
Artificial Lift Wellhead Equipm			\$12,000
Artificial Lift Wellhead Equipm TOTAL COM	nent PLETION COSTS - TANGIBLE		\$12,000 \$27,800
Artificial Lift Wellhead Equipm TOTAL COM OMPLETION COST	nent PLETION COSTS - TANGIBLE S - INTANGIBLE	,	\$12,000 \$27,800
Artificial Lift Wellhead Equipm TOTAL COM	nent PLETION COSTS - TANGIBLE S - INTANGIBLE		\$12,000 \$27,800 \$95,850
Artificial Lift Wellhead Equipm TOTAL COM DMPLETION COST Location and Acc Completion Rig Coiled Tubing	nert PLETION COSTS - TANGIBLE S - INTANGIBLE ess		\$12,000 \$27,800 \$95,850 \$7,500
Artificial Lift Wellhead Equipm TOTAL COM DMPLETION COST Location and Acc Completion Rig	nert PLETION COSTS - TANGIBLE S - INTANGIBLE ess		\$12,000 \$27,800 \$95,850 \$7,500 \$20,000 \$150,000 \$241,400
Artificial Lift Wellhead Equipm TOTAL COM DMPLETION COST Location and Acc Completion Rig Coiled Tubing Rental Equipmer Shubbing	PLETION COSTS - TANGIBLE S - INTANGIBLE ess		\$12,000 \$27,800 \$95,850 \$7,500 \$20,000 \$150,000 \$241,400 \$0
Artificial Lift Wellhead Equipm TOTAL COM DMPLETION COST Location and Acc Completion Rig Coiled Tubing Rental Equipmer	PLETION COSTS - TANGIBLE S - INTANGIBLE ess	,	\$12,000 \$27,800 \$95,850 \$7,500 \$20,000 \$150,000 \$241,400 \$0 \$0
Artificial Lift Wellhead Equip TOTAL COM DMPLETION COST Location and Acc Completion Rig Coiled Tubing Rental Equipmer Snubbing Fuel Lift Fuel	PLETION COSTS - TANGIBLE S - INTANGIBLE ess		\$12,000 \$27,800 \$95,850 \$5,500 \$20,000 \$150,000 \$241,400 \$0 \$50 \$50
Artificial Lift Wellhead Equipm TOTAL COM MPLETION COST Location and Acc Completion Rig Corled Tubling Rental Equipmer Shubbing Pulling/Swab Unc Tuel Casing Crews	PLETION COSTS - TANGIBLE S - INTANGIBLE ess		\$12,000 \$27,800 \$95,850 \$7,500 \$20,000 \$150,000 \$241,400 \$0 \$0 \$0 \$0 \$0
Artificial Lift Wellhead Equipm TOTAL COM MPLETION COST Location and Acc Completion Rig Coiled Tubing Rental Equipmer Shubbing Pulling/Swab Uni Fuel Casing Crews Cement	PLETION COSTS - TANGIBLE S - INTANGIBLE ess		\$12,000 \$27,800 \$95,850 \$7,500 \$20,000 \$150,000 \$241,400 \$0 \$0 \$0 \$50 \$50
Artifical Lift Wellhead Equipm TOTAL COM MPLETION COST Location and Acc Completion Rig Coiled Tubing Rental Equipmer Snubbing Fulling/Swab Unit Fuel Casing Crews Lement Well Testing /Flo	PLETION COSTS - TANGIBLE S - INTANGIBLE ess t	,	\$12,000 \$27,800 \$95,850 \$7,500 \$20,000 \$150,000 \$241,400 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
Artificial Lift Wellhead Equipm TOTAL COM MPLETION COST Location and Acc Completion Rig Corled Tubing Rental Equipmer Shubbing Full Casing Crews Cement Well Testing /Flo Fracturing Service	nert PLETION COSTS - TANGIBLE S - INTANGIBLE ess t ts		\$12,000 \$27,800 \$95,850 \$7,500 \$20,000 \$150,000 \$241,400 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$3,80,000
Artificial Lift Wellhead Equipm TOTAL COM DMPLETION COST Location and Acc Completion Rig Coiled Tubing Rental Equipmer Shubbing Fulling/Swab Unit Fuel Casing Crews Cement Well Testing /Flo Fracturing Servic Actidizing and N2	PLETION COSTS - TANGIBLE S - INTANGIBLE ess t ts wback es Services		\$12,000 \$27,800 \$95,850 \$7,500 \$20,000 \$150,000 \$241,400 \$0 \$0 \$0 \$0 \$0 \$0 \$150,000 \$241,400 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
Artificial Lift Wellhead Equipm TOTAL COM DMPLETION COST Location and Acc Completion Rig Coiled Tubing Rental Equipmer Snubbing Fulling/Swab Uni Fuel Casing Crews Cement Well Testing /Fio Fracturing Servic Accidizing and N2 Perforating and	PLETION COSTS - TANGIBLE S - INTANGIBLE ess : : : : : : : : : : : : : : : : : :		\$12,000 \$27,800 \$95,850 \$7,500 \$20,000 \$150,000 \$241,400 \$0 \$0 \$0 \$0 \$0 \$50 \$50 \$50 \$50 \$50 \$5
Artificial Lift Wellhead Equip TOTAL COM MPLETION COST Location and Acc Completion Rig Coiled Tubing Rental Equipmer Snuoping Pulling/Swab Unified Lasing Crews Lement Well Testing /Flo Fracturing Servic Acidizing and N2 Perforating and Cased Hip e Logg	nert PLETION COSTS - TANGIBLE S - INTANGIBLE ess t ts wback es Services Wreing Services		\$12,000 \$27,800 \$95,850 \$7,500 \$20,000 \$150,000 \$241,400 \$6 \$6 \$6 \$6 \$5 \$6 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5
Artificial Lift Wellhead Equipm TOTAL COM MPLETION COST Location and Acc Completion Rig Corled Tubling Rental Equipmer Snubbing Full Casing Crews Lement Well Testing /Flo Fracturing Servic Acidizing and N2 Perforating and Cassed Ho e Logg Comp Fluids & Si	PLETION COSTS - TANGIBLE S - INTANGIBLE ess t ts wback es Services Wreling Services ing ervices		\$12,000 \$27,800 \$95,850 \$20,000 \$150,000 \$241,400 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$3 \$0 \$0 \$3 \$0 \$227,250 \$27,250 \$3,87,50 \$327,250
Artificial Lift Weilhead Equipm TOTAL COM MPLETION COST Location and Acc Completion Rig Coiled Tubling Rental Equipmer Shubbing Fulleng/Swab United Location Service Lement Well Testing /Flor Fracturing Service Acidizing and N2 Ferforating and N2 Ferforating and N2 Cased Hide Logg Comp Fluids & S Water & Water S	PLETION COSTS - TANGIBLE S - INTANGIBLE ess t ts wback es Services Wreling Services ing ervices		\$12,000 \$27,800 \$95,850 \$7,500 \$20,000 \$150,000 \$241,400 \$0 \$0 \$0 \$0 \$0 \$0 \$3,890,000 \$3,890,000 \$227,250 \$3,750 \$3,750
Artificial Lift Weilhead Equipm TOTAL COM MPLETION COST Location and Acc Completion Rig Coried Tubing Rental Equipmer Shubbing Fulling/Swab Uni Fuel Casing Crews Lement Well Testing /Fio Fracturing Servic Acidizing and N2 Perforating and Cased Hole Clogs Comp Fluids & St Water & Water Freight	wback es Services Wreine Services Writes		\$12,000 \$27,800 \$95,850 \$25,000 \$150,000 \$241,400 \$0 \$0 \$0 \$0 \$0 \$0 \$241,400 \$0 \$0 \$0 \$0 \$0 \$0 \$150,000 \$241,400 \$0 \$0 \$0 \$0 \$150,000 \$150
Artificial Lift Wellhead Equip TOTAL COM MPLETION COST Location and Acc Completion Rig Rental Equipmer Snuoping Fulleng/Swab Unification Fuel Casing Crews Lement Well Testing /Flo Fracturing Servic Acidizing and N2 Ferforating and Cased Hio e Logg Comp Fluids & St Water & Water I Freight	neet PLETION COSTS - TANGIBLE S - INTANGIBLE ess t ts wback es Services Wureling Services ng ervices ervices ervices es		\$12,000 \$27,800 \$95,850 \$20,000 \$150,000 \$241,400 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$3,890,000 \$327,250 \$3,750 \$317,420 \$434,010 \$15,000
Artificial Lift Wellhead Equipm TOTAL COM MPLETION COST Location and Acc Completion Rig Corled Tubling Rental Equipmer Shubbing Pulling/Swab Une Fuel Casing Crews Lement Well Testing /Flo Fracturing Servic Acidizing and N2 Perforating and N2 Perforating and N2 Perforating and N2 Perforating and N3 Perforating and N4 Perforating and N5 Perforating and N6 Losed Ho e Lose Comp Fluids & Si Water & Water I Progettion Servic Nisc Materials &	neet PLETION COSTS - TANGIBLE S - INTANGIBLE ess t ts wback es Services Wureling Services ng ervices ervices ervices es		\$12,000 \$27,800 \$95,850 \$20,000 \$150,000 \$241,400 \$0 \$0 \$0 \$0 \$0 \$0 \$221,250 \$3,890,000 \$3,890,000 \$3,27,250 \$3,27,250 \$3,27,250 \$3,27,250 \$3,27,250 \$434,010 \$5,500
Artificial Lift Wellhead Equipm TOTAL COM DIFFERENCE OF TOTAL COM MPLETION COST Location and Acc Completion Rig Coiled Tubling Rental Equipmer Shubbing Rental Equipmer Shubbing Casing Crews Cement Well Testing /Flo Fracturing Servic Acidizing and N2 Perforating Acidizing and N2 Perforating Servic Acidizing and N2 Perforating Servic Materials & Si Water & Water I Treight Inspection Servic Misc Materials & Frac Plugs	neet PLETION COSTS - TANGIBLE S - INTANGIBLE ess t ts wback es Services Wureling Services ng ervices ervices ervices es		\$12,000 \$27,800 \$95,850 \$20,000 \$150,000 \$241,400 \$0 \$0 \$0 \$0 \$0 \$0 \$3,890,000 \$3,890,000 \$3,890,000 \$3,750 \$327,250 \$32
Artificial Lift Wellhead Equip TOTAL COM DMPLETION COST Location and Acc Completion Rig Rental Equipmer Snubbing Rental Equipmer Snubbing Full Casing Crews Cement Well Testing /Flo Fracturing Servic Acidizing and N2 Perforating and Cased Hole Logg Comp Fluids & Si Water & Water S Treight Inspection Servic Misc Materials & Frac Plugs Contract Labor	Nent PLETION COSTS - TANGIBLE S - INTANGIBLE ess t ts wback es Services Wreling Services ng ervices ervices es Equip		\$12,000 \$27,800 \$95,850 \$20,000 \$150,000 \$241,400 \$241,400 \$0 \$0 \$0 \$0 \$0 \$0 \$20 \$3,890,000 \$327,250 \$3,750 \$327,420 \$434,010 \$15,000 \$40,000 \$5,500 \$5,500
Artificial Lift Wellhead Equipm TOTAL COM MPLETION COST Location and Acc Completion Rig Coiled Tubling Rental Equipmer Shubbing Full Casing Crews Cement Well Testing /Flor Faculting Servic Acidizing and N2 Perforating and Cased Ho e Logg Comp Fluids & Si Water & Water S Freight Inspection Servic Misc Materials & Frac Plugs Contract Labor Teleom Servicet	PLETION COSTS - TANGIBLE S - INTANGIBLE ess t ts wback es Services Wreling Services ng ervices es Equip		\$12,000 \$27,800 \$95,850 \$20,000 \$150,000 \$241,400 \$241,400 \$50 \$50 \$50 \$50 \$50 \$3,890,000 \$3,890,000 \$3,27,250 \$317,420 \$434,010 \$15,000 \$49,500 \$49,500
Artificial Lift Wellhead Equipm TOTAL COM MPLETION COST Location and Acc Completion Rig Coiled Tubling Rental Equipmer Shubbing Rental Equipmer Shubbing Full Casing Crews Cement Well Testing /Flo Fracturing Service Acidizing and N2 Perforating and N2 Perforation Service Perforation Servic	PLETION COSTS - TANGIBLE S - INTANGIBLE ess t ts wback es Services Wireling Services mg ervices ervices es Equip		\$12,000 \$27,800 \$295,850 \$95,850 \$20,000 \$150,000 \$241,400 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
Artificial Lift Wellhead Equip TOTAL COM MPLETION COST Location and Acc Completion Rig Rental Equipmer Snubbing Rental Equipmer Snubbing Pulking/Swab Uni Fuel Casing Crews Cement Well Testing /Flo Fracturing Servic Acidizing and N2 Perforating and Cased Hole Logg Comp Fluids & Si Water & Water 1 Freight Inspection Service Misc Materials & Frac Plugs Constract Labor Telecom Service HES Leupa & Sers Supervision & Os	PLETION COSTS - TANGIBLE S - INTANGIBLE ess t ts wback es Services Wireling Services mg ervices ervices es Equip		\$12,000 \$27,800 \$27,800 \$20,000 \$20,000 \$150,000 \$241,400 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$
Artificial Lift Wellhead Equipm TOTAL COM MPLETION COST Location and Acc Completion Rig Coiled Tubing Rental Equipmer Snubbing Full Casing Crews Cement Well Testing /Flo Facturing Servic Acidizing and N2 Perforating and Cassed Hoe Logg Comp Fluids & Si Water & Water S Freight Inspection Service Misc Materials & Frac Pugs Compract Labor Telecom Service HES Equip & Service HES Equip & Service Supervision & Ortificates	PLETION COSTS - TANGIBLE S - INTANGIBLE ess t ts wback es Services Wireling Services mg ervices ervices es Equip		\$12,000 \$27,800 \$295,850 \$95,850 \$20,000 \$150,000 \$241,400 \$241,400 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$53,850,000 \$53,850,000 \$53,8750 \$53,750 \$53,750 \$53,750 \$510,000 \$54,000 \$54,000 \$54,000 \$54,000 \$54,000 \$54,000 \$54,000 \$54,000 \$54,000 \$54,000 \$54,000 \$54,000 \$55,500 \$5108,100 \$50 \$5142,500 \$5142,500
Artificial Lift Wellhead Equipm TOTAL COM MPLETION COST Location and Acc Completion Rig Corled Tubing Rental Equipmer Snuoping Pulling/Swab United Testing Flority Lement Well Testing /Flority Facturing Service Acidizing and N2 Perforating and N3 Perforating and N4 Lossed Hoe Logg Comp Fluids & Si Water & Water 1 Lossed Hoe Logg Comp Fluids & Si Water & Water 1 Lossed Hoe Logg Comp Fluids & Si Water & Water 1 Lossed Hoe Logg Comp Fluids & Si Water & Supervision Service HES Equip & Servi Suppervision & Ox Tracers Supface Faculties	PLETION COSTS - TANGIBLE S - INTANGIBLE ess t ts wback es Services Wireling Services mg ervices ervices es Equip		\$12,000 \$27,800 \$27,800 \$295,850 \$20,000 \$150,000 \$241,400 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
Artificial Lift Wellhead Equip TOTAL COM MPLETION COST Location and Acc Completion Rig Rental Equipmer Snuoping Pulleng/Swab Unification Fuel Casing Crews Cement Well Testing /Flo Fracturing Servic Acidizing and N2 Perforating and Cased Hig e Logg Comp Fluids & Si Water & Water 1 Treight Inspection Service Misc Materials & Frac Plugs Contract Labor Telecom Service HES Equip & Sers Supervision & O Tracers Surface Facilities Contrace Facilities	PLETION COSTS - TANGIBLE S - INTANGIBLE ess t ts wback es Services Wreinic Services ing ervices er		\$12,000 \$27,800 \$27,800 \$20,000 \$20,000 \$150,000 \$241,400 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$
Artificial Lift Weilhead Equip TOTAL COM DMPLETION COST Location and Acc Completion Rig Coiled Tubing Rental Equipmer Snubbing Fulling/Swab Unificial Casing Crews Cement Well Testing /Flo Fracturing Servic Acidizing and N2 Perforating and Cassed Hole Logg Comp Fluids & Si Water & Water 3 Freght Inspection Service Misc Materials & Frac Plugs Contract Labor Telecom Service HES Equip & Ser Supervision & O Tracers Surface Faculties Contingency	PLETION COSTS - TANGIBLE S - INTANGIBLE ess t ts wback es Services Wireling Services mg ervices ervices es Equip	FTION COSTS	\$12,000 \$27,800 \$27,800 \$295,850 \$20,000 \$150,000 \$241,400 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$

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