## **HIGHMARK**

## AUTHORITY FOR EXPENDITURE DRILLING AND COMPLETION

Operator HighMark Energy Operating		Date 11/18/2016
Well Name Whitehall Lane 1-3H	API Number 35-011-XXXXX	AFE Number TBD
Operator WI TBD	County / State 3-17N-11W Blaine County	, OK

PROJECT: Drill, complete, and equip 1 mile horizontal Mississippian well w/multi-stage cemented plug & perf completion. +/-9,480' TVD; +/- 14,350' MD; +/- 4,550' lateral length. 2,200+ lb/ft.

Minor	Description		Drilling - 8153	Completion - 8155		Total
100	Location, Roads & Survey		\$ 145,000	\$ 8,000	5	153,000
110	Surface Damages & Right of Way		25,000		Š	25,000
120	Rig Move		200,000		5	200,000
140	Rig Cost - Daywork / Workover Rig		465,000	33,000	\$	498,000
150	Coiled Tubing Unit	····		145,000	\$	145,000
160	Fuel & Power		79,000		5	79,000
165	Orilling Water / Frac Water & Transfer	***************************************	19,000	123,000	Ś	142,000
170	Bits & BHA / Downhole Rentals		192,000	30,000	\$	222,000
175	Orill Pipe Rental		6,000		5	6,000
180	Open Hole Logging / Cased Hole Logging			5,000	\$	5,000
185	Directional Drilling Services	***************************************	157,000		Š	157,000
190	Surface Equipment Rental		108,000	96,000	\$	204,000
195	Field Office and Communications		37,000	13,000	\$	50,000
200	Contract Service - Engineering & Geology		55,000	5,000	\$	51,000
210	Tubular Inspection		6,000	3,000	\$	9,000
220	Transportation		15,000	8,000	\$	23,000
240	Fishing Tools & Services	·····	***************************************		S.	
250	Mud & Chemicals		300,000	50,000	Ş	350,000
255	Mud Logging		22,000	302000	\$	22,000
260	Formation Evaluation		12,000		\$	12,000
270	Cement Services & Float Equipment		128,000		\$	128,000
280	Casing Crews		57,000		\$	57,000
290	Stimulation		37,000.	1,600,000	\$	1,600,000
295	Pumping Services			50,000	5	50,000
300	Acidizing			8,000	5	8,000
315	Flowback & Well Testing			65,000	5	65,000
320	Mud Disposal / Salt Water Disposal		166,000	83,000	\$	249,000
325	Environmental, Health & Safety		5,000	4,000	5	9,000
340	Perforating & Wireline Services		3,000	135,000	\$	135,000
350	Wellsite Supervision		111,000	52,000		153,000
360	Other Labor		34,000	5,000	X 12	39,000
370	Surface Facility & Pipeline Installation Labor		34,000	50,000	allene	50,000
700	Legal Expenses & Title		22 000	30,000	\$	33,000
800	Other Expenses		33,000	2.600	\$	8,000
850	Overhead		6,000	2,000	5_	
851	Insurance - Control of Well		15,000	7,000	<u>\$</u>	22,000
854					<u> -</u>	
034	Contingency	TOTAL INTANGIBLE	120,000	129,000	\$	249,000
•		TOTAL DATABOLE	2,518,000	2,710,000		<b>5,</b> 228,000
TANGIBLE C	OCTC		Delline Gare	Completion - 8156		Total
100	Surface Casing		Drilling - 8154 39,000	rombienou - 9139	\$	39,000
105	Intermediate Casing				Ž	209,000
115	Production Casing		209,000		<u> </u>	
120	Wellhead		283,000		<u>*</u>	283,000
110	Tubing		18,000	32,000	\$	50,000
				45,000	\$	45 <b>,0</b> 60
130 135	Downhole Equipment		16,000	10,000	\$	26,000
**********	Artificial Lift Equipment			12,000	\$	12,000
140	Trucking		10,000	10,000	\$	20,000
150	Conductor		12,000		\$_	12,000
160	Surface Facilities			231,000	\$	231,000
170	Valves & Fittings			25,000	<u> </u>	25,000
180	Flowlines			25,000	\$	25,000
300	Other		5,000		5	5,000
		TOTAL INTANGIBLE	592,000	390,000		982,000

EXHIBIT C.S.R. G.

It is recognized that the amounts herein are estimates only and approval of this authorization shall extend to the actual costs incurred in conducting the operation specified whether more or less than that herein set out.

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HighMa	rk Approval	1///		1 111	and the second of the second o
VP Operations			Date	/18//6	
coo	Stephen Pugh		Date	1 111 20 21 17.	
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DEC 13 2016

Partne	Y Approval		
Signature		Company	
Printed Name		Date	
Title/Position	Phon	e #/Email	
WedoDO NOT elect to be covered by HighMark Energy Operating, LLC's Well Control Insurance.  (please initial)			