

AUTHORITY FOR EXPENDITURE DRILLING AND COMPLETION

	<u> </u>					
	Operator HighMark Energy Operating	Well Number			12/1/2016	
¥	/ell Name_Revana 1-7H	API Number	35-011-XXXXX	AFE Number	TRD	
Oρ	erator WI TBD	County / State	7-17N-11W Blaine County, OK			

PROJECT: Drill, complete, and equip 1 mile horizontel Mississippian well w/multi-stage cemented plug & perf completion, +/-9,600 TVD; +/- 14,450 MD; +/- 4,550 lateral length. 2,200+ ib/ft.

Drilling	3 Completion - 8155	3	Total
10			153,000
10		5	25,000
ABJ Fig First - Darwink / Workover Rig		5	200,000
50			514,000
Section	145,000		145,000
Section Company Comp		\$	82,000
			143,000
75			222,00
State		Š	6,500
Statistics Sta	5,000	5	5,000
112,000		5	157,000
95 Field Office and Communications 38,000 00 Cor Service - Engineering & Geology 56,000 10 Tubular Inspection 6,000 20 Institution 15,000 21 Institution 15,000 22 Institution 15,000 23 M		1	208,000
100 Cor A Service - Engineering & Geology S6,000		5	51,080
10			
15,000			62,000
Agg			9,000
Scale	00 8,000	\$	23,000
25.000 First 12.000 12			
12,000 Fatt An		\$	350,000
Total Tota		\$	23,000
Casina Paws S7,000		\$	12,000
Pumping Services	σo (\$	128,000
		5	57,000
Description	1,630.000	\$	1,600,000
		\$	50,000
Mind Disposal / Salt Water Disposal 166,000	-	15	8,000
Mind Disposal / Salt Water Disposal 166,000	60,000	5	65,000
Environmental, Health & Safety 5,000			249,000
		Ţ-	9.000
115,000 Wellsite Supervision 115,000 34,	135,	ı \$	135,000
Sociation Soci			167,000
Surface Facility & Pigeline Installation Labor			39,000
Description			50,000
Other Expenses 7,000	50,000	\$	
		5	33,000
Insurance - Control of Well		\$	9,000
Contingency 122,000 TOTAL INTANGIBLE 2,853,000 PAGIBLE COSTS Drilling 8154 Drilling 39,000 Surface Casing 39,000 Streed Casing 228,000 Drilling 285,000 Drilling 285,000 Develope Equipment 16,000 Downtoble Equipment 16,000 Surface Casing 128,000 Downtoble Equipment 16,000 Downtoble Equipment 16,000 Surface Facilities 12,000 O Conductor 12,000 O Surface Facilities 12,000 O Flowlings 12,000 O Flowlings 10,000	00 7,000	\$	23,000
TOTAL INTANGIBLE 2,553,000		5	
Striface Casing Striface C		\$	251,000
Surface Casing 30,000	00 2,710,660		5,263,000
Surface Casing 30,000			
S	Completion - 8156		Total
5	00	5	39,000
5		\$	202,000
00 Weilhead 28,000 0 Tubing		\$	295,000
0 Tubing 16,000 0 Bownhole Equipment 16,000 5 Artificial Lift Equipment 10,000 0 Trucking 10,000 0 Conductor 12,000 0 Surface Facilities 0 0 Valves & Fittings 0 6 Flowlines 6 0 Other 0		\$	50,000
0 Uownfinle Equipment 16,000 5 Artificial Int Equipment 10,000 0 Trucking 10,000 0 Conductor 12,000 0 Surface Facilities 0 0 Valves & Fittings 0 0 Flowlines 0 0 Other 0	45,000	\$	45,000
5 Artificial Lift Equipment 10,000 0 Trucking 10,000 0 Conductor 12,060 0 Surface Facilities 12,060 0 Valves & Fittings 0 0 Flowlines 0 0 Other		\$	26,000
0 Trucking 10,000 0 Conductor 12,060 0 Surface facilities 0 0 Valves & Fittings 0 6 Flowlines 0 0 Other 0	12,000	\$	12,000
0 Conductor 12,080 0 Surface Facilities 0 0 Valves & Fittings 0 0 Flowlines 0 0 Other		\$	28,080
0. Surface Facilities 0. Valves & Fittings 0 Flowlines 0 Other		5	12,000
O Valves & Fittings O Flowlines O Other	231,000	\$	231,000
0 Flowlines Other	25,000	\$	25,000
O Other	25,000		
······································	43,000	\$	25,000
FUTALINTARGIBLE 582,000			
	990,000	···	972,000
TOTAL APE COSTS \$ 3,135,000	0 \$ 3,400,000	\$	6,235,000

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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VP Operations	Brandon Junker - Landon Honor Brandon	Date /2///6	Ayrogiy #100000000						
coo	Stephan Pugh	Date							
Partner Approval									
Signature		Company							
Printed Name		Date							
Title/Position		Phone #/Email							
WedoDO NOT elect to be covered by HighMerk Energy Operating, LLC's Well Control Insurance. (please initial)									



EXHIBIT OR COLLEGE