

<b>Rodenberg 1H-6X</b>			
<b>STACK</b>		<b>AFE Drill Days = 28.4</b>	
<b>PROJECT DESCRIPTION &amp; OBJECTIVE:</b>		<b>Spud to RR = 23.4</b>	
<b>AFE #:</b>			
<b>PROPOSED TD:</b>		9,954 TVD / 20,324 MD	
<b>AFE TYPE:</b> Drill and Complete			
Original			

  

DETAIL OF ESTIMATED EXPENDITURES		COST CODE	DRILLING	COMPLETION	FACILITIES	TOTAL
<b>INTANGIBLES</b>			880	881	883	
Base / Field Office Operations (housing, utilities, trash etc.)	880101	101	\$ 39,790	\$30,000		\$69,790
Cased Hole Electric Wireline	880102	102	\$ -	\$515,000		\$515,000
Services - Casing Crews and Running Tools	880103	103	\$ 115,000	\$50,000		\$165,000
Services Cementing	880105	105	\$ 185,000			\$185,000
Coil Tubing Unit	880108	108	\$ -			\$0
Communications	880109	109	\$ 6,395			\$6,395
Consultants	880110	110	\$ -	\$125,000	\$3,000	\$128,000
Core / Fluid Analysis	880111	111	\$ -		\$10,000	\$10,000
Engineering - Process	880115	115	\$ -			\$0
Engineering - Structural	880116	116	\$ -			\$0
Directional Drilling Operations	880113	113	\$ 279,217			\$279,217
Environmental & Safety Services	880117	117	\$ 1,904	\$35,000		\$36,904
Fishing Services	880119	119	\$ -			\$0
Fluids Disposal (includes transportation)	880120	120	\$ 104,222	\$20,000		\$124,222
Services Formation Evaluation	880121	121	\$ -			\$0
Formation Stimulation - Fracturing	880122	122	\$ -	\$3,020,000		\$3,020,000
Formation Stimulation - Other	880123	123	\$ -	\$20,000		\$20,000
Inspection - Bottom Hole Assembly	880129	129	\$ 5,000			\$5,000
Inspection - Casing	880130	130	\$ -			\$0
Inspection - Drill Pipe	880131	131	\$ 25,000			\$25,000
Inspection - Tubing	880133	133	\$ -	\$11,000		\$11,000
Installation / Removal - Pipeline	880135	135	\$ -		\$85,000	\$85,000
Labor - Company Supervision	880139	139	\$ 85,265			\$85,265
Company Labor	880140	140	\$ -		\$500	\$500
Labor - Contract Employees	880141	141	\$ -			\$0
Location Preparation	880143	143	\$ 200,000	\$1,000		\$201,000
Location Remediation & Maintenance	880144	144	\$ 215,105	\$12,500		\$227,605
Services Miscellaneous	880146	146	\$ 50,849	\$6,500		\$57,349
Mud Logging Services	880147	147	\$ 23,153			\$23,153
Project Management	880149	149	\$ -			\$0
Drilling & Completion Rig Costs	880150	150	\$ 653,699	\$125,000	\$14,000	\$792,699
Drilling Well Turnkey Costs	880152	152	\$ -			\$0
Rig Mobilization & De-Mobilization	880153	153	\$ 100,000			\$100,000
Security Services	880154	154	\$ -	\$15,000		\$15,000
Slickline Services	880155	155	\$ -			\$0
Survey - Location	880156	156	\$ -			\$0
Survey - Well (not associated with directional drilling)	880157	157	\$ 2,342			\$2,342
Testing - Well Control Equipment	880160	160	\$ 20,000	\$8,000		\$28,000
Transportation - Land	880162	162	\$ 9,379	\$25,000	\$3,000	\$37,379
Tubular Conveyed Perforating & Drill Stem Testing Services	880165	165	\$ -			\$0
Services Welding	880166	166	\$ 3,000			\$3,000
Drill Bits	880301	301	\$ 152,500	\$5,000		\$157,500
Blow-Out Preventor	880302	302	\$ 22,737	\$50,000		\$72,737
Completion Fluids	880304	304	\$ -	\$5,000		\$5,000
Compressors	880305	305	\$ -			\$0
Cranes	880307	307	\$ -	\$10,000		\$10,000
Dehydration Unit	880309	309	\$ -			\$0
Drill String	880310	310	\$ 34,427			\$34,427
Electrical Repairs	880311	311	\$ -			\$0
Fuel	880313	313	\$ 113,687	\$215,000		\$328,687
Gas Measurement	880317	317	\$ -		\$34,000	\$34,000
Generators	880318	318	\$ -			\$0
Rent Lost in Hole	880325	325	\$ -			\$0
Rent Miscellaneous Surface Equipment	880328	328	\$ 13,198	\$150,000	\$50,000	\$213,198
Mud - Drilling	880329	329	\$ 174,314			\$174,314
Mud Monitoring & Processing Equipment	880330	330	\$ 54,001			\$54,001
Stabilizer, Under-Reamer, Hole-Opener	880341	341	\$ 11,369			\$11,369
Tools & Supplies	880346	346	\$ -		\$85,000	\$85,000
Vapor Recovery System	880349	349	\$ -		\$20,000	\$20,000
Drilling Water	880350	350	\$ 7,816	\$480,000		\$487,816
Water Handling Equipment	880351	351	\$ -			\$0
Drilling Insurance	880501	501	\$ 10,000			\$10,000
Legal Fees	880503	503	\$ 15,000			\$15,000
Regulatory Compliance	880511	511	\$ 1,500			\$1,500
Overhead	880965	965	\$ 14,211			\$14,211
<b>Subtotal - Intangibles</b>			<b>\$ 2,749,080</b>	<b>\$ 4,934,000</b>	<b>\$ 304,500</b>	<b>\$7,987,580</b>
<b>TANGIBLES</b>			880	881	883	
Heaters - Indirect Line	880321	321	\$ -			\$0
Oil Measurement Equipment	880332	332	\$ -			\$0
Line Pipe & Battery Fittings	880335	335	\$ -			\$0
Pumps	880336	336	\$ -			\$0
Separators	880340	340	\$ -		\$62,000	\$62,000
Stock Tanks	880345	345	\$ -		\$65,000	\$65,000
Treaters	880347	347	\$ -			\$0
Artificial Lift	880601	601	\$ -		\$25,000	\$25,000
Casing Accessories	880602	602	\$ 41,000			\$41,000
Miscellaneous Tangible Equipment	880603	603	\$ -			\$0
Packers / Anchors / Liner Hangers	880604	604	\$ -		\$0	\$0
Water Casing (Conductor Casing)	880607	607	\$ 10,000			\$10,000
Pipe Surface Casing	880608	608	\$ 20,000			\$20,000
Pipe Intermediate Casing	880609	609	\$ 309,390			\$309,390
Production Casing/Liner	880610	610	\$ 528,424		\$0	\$528,424
Pipe Casing Liner	880611	611	\$ -			\$0
Tubing	880613	613	\$ -		\$50,000	\$50,000
Rods	880614	614	\$ -		\$0	\$0
Tubing Accessories	880616	616	\$ -	\$30,000		\$30,000
Wellhead	880617	617	\$ 37,000	\$ -		\$37,000
<b>Subtotal - Tangibles</b>			<b>\$ 945,814</b>	<b>\$ 30,000</b>	<b>\$ 202,000</b>	<b>\$1,177,814</b>
<b>AFE TOTAL</b>			<b>\$ 3,694,894</b>	<b>\$ 4,964,000</b>	<b>\$ 506,500</b>	<b>\$9,165,394</b>

  

Scope By	Prepared By	Prepared By	Prepared By
Date Modified	Thomas Frank	Cody Bass	
	Date Modified	Date Modified	Date Modified
	4/9/2015	4/8/2015	

This AFE is only an estimate. By returning one signed copy the undersigned hereby agrees to pay its share of all the actual costs incurred in this operation.

APR 23 2015

NAME: \_\_\_\_\_  
 PRINTED NAME: \_\_\_\_\_  
 TITLE: \_\_\_\_\_

COMPANY: \_\_\_\_\_  
 DATE: \_\_\_\_\_

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