

Gastar Exploration LLC.
Authorization For Expenditure - Drilling & Completion

Operator: Gastar Exploration	Prepared By: JMO	Tax Rate
Well Name: KATY 21-1H	Field: Sooner Trend	Depth: 11,887'
Legal: 21-18N-8W	Parish/County: KINGFISHER	Days: 18
Contractor:	State: OK	Spud Date:

Type of Operation New Drill ☒ Other _____ AFE # _____
 Re-Entry _____ Re-Comp _____ Budgeted: Yes ☒ No: _____

Work Description
 Drill & complete a horizontal MERAMEC well.

Well Program (New Drills and Re-Entry Wells)

Casing	Hole Size	Casing Size Weight & Grade	Depth	Drilling Fluid	Formation Evaluation
Conductor Pipe	26"	20" O.D. H-40	60'	water	
Surface	12 1/4"	9 5/8" 36 #/ft. J-55 STC	800'	WBM	
Intermediate	8 3/4"	7" 29 #/ft. P-110 LTC	7,600'	WBM	
Prod. Liner	6 1/8"	4.5" 11.6 #/ft. P-110 BTC	11,887'	Water	

Costs

Code	Item	Drilling Cost	Completion Cost	Total Cost
Capitalized Intangible Drilling & Completion Costs		8300/8400	8500/8600	
100	Site Preparation & Maintenance	162,800	125,000	287,800
110	Title Opinion	45,000		45,000
120	Drilling/Completion Rig	537,000		537,000
130	Engineering & Supervision	72,000	37,800	109,800
140	Fuel	41,605		41,605
150	Well Evaluation	117,100	49,500	166,600
160	Casing Services	17,000	12,000	29,000
170	Cementing Services	28,500	25,000	53,500
180	Drilling Tools	47,500	2,200	49,700
190	Fluids, Services, & Rentals	46,800	250,000	296,800
200	Equipment Rentals	22,900	170,350	193,250
210	Drill String	47,825	9,100	56,725
220	Environmental	53,480	62,500	115,980
230	Miscellaneous			
240	Specialty Tools & Services	87,000		87,000
250	Trucking & Transportation	10,000	2,500	12,500
260	Welding	5,000		5,000
270	Production Services		1,537,500	1,537,500
300	Contract Labor	13,000	38,000	51,000
310	Plug and Abandonment	15,000		15,000
400	Insurance	7,132		7,132
500	Overhead Allocation			
Total Intangible Cost		1,376,422	2,321,450	\$3,697,872
100	Casing	130,453	31,500	161,953
110	Tubing		34,250	34,250
120	Subsurface Equipment		69,500	69,500
130	Wellhead Equipment	11,500	5,000	16,500
140	Production Equipment		122,128	122,128
150	Miscellaneous Equipment			
Total Tangible Cost		\$141,953	\$262,378	\$404,331
Total Cost		\$1,518,375	\$2,583,828	\$4,102,203
Contingencies 10%		\$151,837.47	\$258,382.80	\$410,220
AFE Cost		\$1,670,212	\$2,842,211	\$4,512,423
Operator	W.I. Share			
WIP #1	W.I. Share			
WIP #2	W.I. Share			
WIP #3	W.I. Share			
Total				

Approvals

Company, Name & Title	Signature	Date
Initiator John O'Dowd		10/3
1st Level Rick Johnson	_____	_____
2nd Level	_____	_____
3rd Level Russ Porter	_____	_____

Approvals - Working Interest Partners

Name & Title	Signature	Date
WIP #1	_____	_____
WIP #2	_____	_____
WIP #3	_____	_____



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OCT 11 2016