

	mate - Drilling & Completion Gastar Exploration USA, Inc.		Prepared By:	RDJ	Tax Rate		
	Unnamed 21-1H			Sooner Trend	Depth:	12,750 '	
	T18N-R6W, Section 21		Parish/County:		Days:	30	
Contractor:	TBD		State:	OK	Spud Date:	TBD	
ell Program	-Drill and Complete Horizontal Hunton						
Casing		& Grade	Depth	Drilling Fluid	F	ormation Evaluation	on
Conductor	20 16		30 '	N/A			
Surface		<del>-</del>	500 ' 7,700 '	FW FW Gel w/ABO	CBL .	Triple Combo, RSW	Cores
Intermediate Production	- HETT HE - HE HE HE HE - HE - HE - HE -		12,700	FW w/Gel		BL, Triple Combo, F	
Costs	·			8300		8500	
		Item Cost per	Drilling		Completion	Completion	Total Co
Code	item	Unit	Days/Units	Drilling Cost	Days/No.	Cost	Total Co
	Intangible Drilling & Completion Cos	ts					450.0
100	Site Preparation & Maintenance			124,000	_	35,000	1 <b>59,0</b>
	Permits & Surveys Location, Roads, Pits			5,000 60,000		5,000	65,0
	Water/Water Well/Plugging		•	30,000		5,000	35,0
	Conductor/Mousehole Installation			9,000			9,0
	Site Restoration & Land Use			10,000		5,000	15,0
	Wellsite Security Roustabouts & Labor			10,000		20,000	30,0
110	Title Opinion			5,000	<u> </u>	2,500	7,5
	Drilling/Completion Rig			785,000		4,500	789,5
	Mob/Demob			125,000			125,0
	Rig Rental	22,000	30	660,000		4,500	664,5
	Top Drive & Mousehole Additional Crew/Oil Base pay						
130	Engineering & Supervision			88,000		14,000	102,0
100	Wellsite Supervision	1,400	30	42,000	10	14,000	56,0
	Engineering & Geology			15,000			15,0
	Rig Supervisor Camp			30,000			30,0
	Communications Field/Office Supplies			500 500			· _ {
140	Fuel	1,200	30	36,000		1,500	37,5
150	Well Evaluation		-	72,500		100,000	172,5
	Open Hole Logging			35,000		80,000	115,0
	Cased Hole Logging			7,500		10,000	17,5
	Mud Logging Core Analysis	1,500	20	30,000			30,0
	Drill Stem Testing						
	Fluid Analysis						
	Production Testing				10	10,000	10,0
160	Casing Services			23,500		29,500	<b>53,0</b>
	Casing Crews & Rental Tools Roustabouts & Cleaning			20,000 3,500		25,000 4,500	45 <u>,</u> 0
	Thread Specialist						
170	Cementing Services			35,000		_40,000	75,0
	Primary Cementing			35,000		40,000	75,0
	Remedial Cementing Loss Circulation						
•	Squeeze Packers & Cementers						
	Kick-Off Plugs					· · · · · · · · · · · · · · · · · · ·	
180	Drilling Tools			60,000		7,500	67,5
	Drill Bits Core Bits		-	60,000		7,500	67,
	Stabilizers/Reamers						
	Performance Motors/Turbines (ATK)						
	Drilling Jars						
100	Shock Subs  Drilling/Completion Fluids & Services		<del> </del>	130,000		10,000	140,0
190	Fluids & Services			125,000		10,000	135,0
	Shaker Screens			5,000			5,0
200	Equipment Rentals			62,500		53,500	116,0
	Shale Shaker Mud Cleaner	12.11					
	Centrifuge	MALL W. H					
	Transfer Pumps	<b>*</b>	7			10,000	10,0
	Steam Cleaners	1	<b>~</b>				
	Wear Bushing Pentals - Surface	EXHIBIT	<b>]</b>	60,000			60,0
	Rentals - Subsurface		)				
	PVT/Flo-Show	C.S.R.					
	BOP Rental Forklift	<u>.</u> .	A)	2 500		0.500	
	Hydraulic Choke	m	A.	2,500 _		3,500	6,0
	Tankage (Frac Tanks)	CAL REP				40,000	40,0
210	Drill String			25,000			25,0
	Drill Pipe	CED OA	2012	20,000			20,0
	Drill Collars	SEP 30	2013				
	Drill Pipe Protectors		-	5,000			5,0
							5.0
	Inspections & Repair Corrosion Control			0,000			



Operator:	Gastar Exploration USA, Inc.			Prepared By	: RDJ	Tax Rate		
	Unnamed 21-1H			Field	Sooner Trend	Depth:	12,750 '	
	T18N-R6W, Section 21			Parish/County	Kingfisher	Days:	30	
Contractor:				State		Spud Date:	TBD	
	Solid Waste Disposal	***			5,000			5,0
	Brine & Water Disposal				5,000		15,000	20,0
	Cuttings Haul-off & Disposal				10,000		5,000	15,0
	Closed Loop Services				25,000			25,0
	Reserve & Flare Pit Closure Spill Cleanup						<u>-</u>	
230	Miscellaneous		<del></del>	-	20,000		10,000	30,0
	Specialty Tools & Services			· · ·	260,000		10,500	270,5
	Directional & MWD Services			<del></del>	260,000			260,0
	Well Surveying (SS,EMS,Gyro)							
	Fishing Tools and Services							***
	Sidetrack: Whipstock, Mills, Service							
	Coring Services							100000
	Safety (H2S) Control Of Well							
	BOP NU & Testing Services			1 - 1 - 1 - 1 - 1 - 1			6,000	6,0
	Wellhead Technician					***	4,500	4,
250	Trucking & Transportation			-	10,000		7,500	17,5
	Welding			- <del></del>	7,500		3,000	10,5
	Production Services						2.080.000	2,080,0
	Stimulation						1,600,000	1,600,
	Perforating						100,000	100,
	Wireline Services	• • •					25,000	25,
	Stimulation Water/ Transfer						80,000	80,
	Coil Tubing & Nitrogen Services						200,000	200,
	Misc. Rental Equipment		-				50,000	50,
	Pressure Testing Services						25.000	25.
200	Facilities Construction  Contract Labor		·		10.000		20,000	30,0
	Contract Labor							
	Plug and Abandonment				10,000		20,000	
310	Plug and Abandonment						20,000	5,0
310 400	OEE Insurance				5,000 15,000		10,000	
310 400 500	OEE Insurance Overhead Allocation				<b>5,000</b> 15,000		10,000	25,0
310 400 500 otal Intan	OEE Insurance Overhead Allocation gible Cost			-	5,000 15,000 \$1,819,000		10,000 \$2,459,000	25,0
310 400 500 otal Intan ngible Dr	OEE Insurance Overhead Allocation gible Cost illing & Completion Costs				5,000 15,000 \$1,819,000 8400		10,000 \$2,459,000 8600	25,0 <b>\$4,278,</b> 0
310 400 500 stal Intan ngible Dr	OEE Insurance Overhead Allocation gible Cost illing & Completion Costs Casing				5,000 15,000 \$1,819,000 8400 164,600		10,000 \$2,459,000	25, \$4,278,0 317,0
310 400 500 stal Intan ngible Dr	OEE Insurance Overhead Allocation gible Cost illing & Completion Costs		22	500	5,000 15,000 \$1,819,000 8400		10,000 \$2,459,000 8600	25, \$4,278, 317,0
310 400 500 stal Intan ngible Dr	OEE Insurance Overhead Allocation gible Cost illing & Completion Costs Casing Conductor Casing		22		5,000 15,000 \$1,819,000 8400 164,600 15,000		10,000 \$2,459,000 8600	25, \$4,278, 1 \$4,278, 1 317, ( 15, 11,
310 400 500 stal Intan ngible Dr	OEE Insurance Overhead Allocation gible Cost illing & Completion Costs Casing Conductor Casing Surface Casing Protection Casing Protection Casing				5,000 15,000 \$1,819,000 8400 164,600 15,000 11,000		10,000 \$2,459,000 8600	25, \$4,278, 317,6 15, 11,
310 400 500 stal Intan ngible Dr	OEE Insurance Overhead Allocation gible Cost illing & Completion Costs Casing Conductor Casing Surface Casing Protection Casing Protection Casing Drilling Liner & Tieback		18	7700	5,000 15,000 \$1,819,000 8400 164,600 15,000 11,000		10,000 \$2,459,000 8600 152,400	25, \$4,278, 317,0 15, 11, 138,
310 400 500 stal Intan ngible Dr 100	OEE Insurance Overhead Allocation gible Cost illing & Completion Costs Casing Conductor Casing Surface Casing Protection Casing Protection Casing Drilling Liner & Tieback Production Liner/Casing			7700	5,000 15,000 \$1,819,000 8400 164,600 15,000 11,000		10,000 \$2,459,000 8600 152,400	25, \$4,278, 317.( 15, 11, 138,
310 400 500 stal Intan ngible Dr 100	OEE Insurance Overhead Allocation gible Cost illing & Completion Costs Casing Conductor Casing Surface Casing Protection Casing Protection Casing Drilling Liner & Tieback Production Liner/Casing Production Liner/Casing		18	7700	5,000 15,000 \$1,819,000 8400 164,600 15,000 11,000		10,000 \$2,459,000 8600 152,400 152,400 32,200	25, \$4,278, 15, 11, 138, 152, 32,
310 400 500 stal Intan ngible Dr 100	OEE Insurance Overhead Allocation gible Cost illing & Completion Costs Casing Conductor Casing Surface Casing Protection Casing Protection Casing Protection Casing Drilling Liner & Tieback Production Liner/Casing Production Tubing Tubing		18	7700	5,000 15,000 \$1,819,000 8400 164,600 15,000 11,000		10,000 \$2,459,000 8600 152,400 152,400 32,200 31,200	25, \$4,278, 317, 15, 11, 138, 152, 32, 31,
310 400 500 stal Intan ngible Dr 100	OEE Insurance Overhead Allocation gible Cost illing & Completion Costs Casing Conductor Casing Surface Casing Protection Casing Protection Casing Protection Casing Protection Casing Production Liner/Casing Production Liner/Casing Production Tubing Tubing Pups and cross-overs		18	7700	5,000 15,000 \$1,819,000 8400 164,600 15,000 11,000		10,000 \$2,459,000 8600 152,400 152,400 32,200	25, \$4,278, 317,0 15, 11, 138, 152, 32, 31,
310 400 500 stal Intan ngible Dr 100	OEE Insurance Overhead Allocation gible Cost illing & Completion Costs Casing Conductor Casing Surface Casing Protection Casing Protection Casing Protection Casing Drilling Liner & Tieback Production Liner/Casing Production Tubing Tubing		18	7700	5,000 15,000 \$1,819,000 8400 164,600 15,000 11,000 138,600		10,000 \$2,459,000 8600 152,400 32,200 31,200 1,000	25, \$4,278, 15, 11, 138, 152, 32, 31, 1, 67,
310 400 500 otal Intan ngible Dr 100	OEE Insurance Overhead Allocation gible Cost illing & Completion Costs Casing Conductor Casing Surface Casing Protection Casing Protection Casing Drilling Liner & Tieback Production Liner/Casing Production Tubing Tubing Pups and cross-overs Subsurface Equipment Liner Hanger & Packer Production Packer, Anchor, Seals		18	7700	5,000 15,000 \$1,819,000 8400 164,600 15,000 11,000 138,600		10,000 \$2,459,000 8600 152,400 32,200 31,200 1,000 63,000	25, \$4,278, 317,4 15, 11, 138, 152, 32, 31, 1, 67,4
310 400 500 stal Intan ngible Dr 100	OEE Insurance Overhead Allocation gible Cost illing & Completion Costs Casing Conductor Casing Surface Casing Protection Casing Protection Casing Drilling Liner & Tieback Production Liner/Casing Production Tubing Tubing Pups and cross-overs Subsurface Equipment Liner Hanger & Packer Production Packer, Anchor, Seals Cementing Equipment		18	7700	5,000 15,000 \$1,819,000 8400 164,600 15,000 11,000 138,600		10,000 \$2,459,000 8600 152,400 32,200 31,200 1,000 63,000 8,000 15,000	25, \$4,278, 317, 15, 11, 138, 152, 32, 31, 1, 67,
310 400 500 stal Intan ngible Dr 100	OEE Insurance Overhead Allocation gible Cost illing & Completion Costs Casing Conductor Casing Surface Casing Protection Casing Protection Casing Protection Casing Protection Casing Production Liner/Casing Production Liner/Casing Production Tubing Tubing Pups and cross-overs Subsurface Equipment Liner Hanger & Packer Production Packer, Anchor, Seals Cementing Equipment Gas Lift Mandrels & Valves		18	7700	5,000 15,000 \$1,819,000 8400 164,600 15,000 11,000 138,600		10,000 \$2,459,000 8600 152,400 32,200 31,200 1,000 63,000	25, \$4,278, 317, 15, 11, 138, 152, 32, 31, 1, 67,
310 400 500 stal Intan ngible Dr 100	OEE Insurance Overhead Allocation gible Cost illing & Completion Costs Casing Conductor Casing Surface Casing Protection Casing Protection Casing Drilling Liner & Tieback Production Liner/Casing Production Liner/Casing Tubing Pups and cross-overs Subsurface Equipment Liner Hanger & Packer Production Packer, Anchor, Seals Cementing Equipment Cas Lift Mandrels & Valves Pumps		18	7700	5,000 15,000 \$1,819,000 8400 164,600 15,000 11,000 138,600		10,000 \$2,459,000 8600 152,400 32,200 31,200 1,000 63,000 8,000 15,000 20,000	25, \$4,278, 15, 11, 138, 152, 32, 31, 1, 67,
310 400 500 stal Intan ngible Dr 100	OEE Insurance Overhead Allocation gible Cost illing & Completion Costs Casing Conductor Casing Surface Casing Protection Casing Protection Casing Protection Casing Production Liner/Casing Production Liner/Casing Production Tubing Tubing Pups and cross-overs Subsurface Equipment Liner Hanger & Packer Production Packer, Anchor, Seals Cementing Equipment Gas Lift Mandrels & Valves Pumps Bridge Plugs		18	7700	5,000 15,000 \$1,819,000 8400 164,600 15,000 11,000 138,600 4,500		10,000 \$2,459,000 8600 152,400 32,200 31,200 1,000 63,000 8,000 15,000 20,000	25, \$4,278, 15, 11, 138, 152, 32, 31, 1, 67,
310 400 500 501 100 110 110	OEE Insurance Overhead Allocation gible Cost illing & Completion Costs Casing Conductor Casing Surface Casing Protection Casing Protection Casing Drilling Liner & Tieback Production Liner/Casing Production Liner/Casing Tubing Pups and cross-overs Subsurface Equipment Liner Hanger & Packer Production Packer, Anchor, Seals Cementing Equipment Cas Lift Mandrels & Valves Pumps		18	7700	5,000 15,000 \$1,819,000 8400 164,600 15,000 11,000 138,600		10,000 \$2,459,000 8600 152,400 32,200 31,200 1,000 63,000 8,000 15,000 20,000	25, \$4,278, 15, 11, 138, 152, 32, 31, 67, 19, 20, 25, 4
310 400 500 501 100 110 110	OEE Insurance Overhead Allocation gible Cost illing & Completion Costs Casing Conductor Casing Surface Casing Protection Casing Protection Casing Protection Casing Protection Casing Production Liner/Casing Production Liner/Casing Production Tubing Tubing Pups and cross-overs Subsurface Equipment Liner Hanger & Packer Production Packer, Anchor, Seals Cementing Equipment Gas Lift Mandrels & Valves Pumps Bridge Plugs Wellhead Equipment		19 19 19 19 19 19 19 19 19 19 19 19 19 1	7700 12700 7800	5,000 15,000 \$1,819,000 8400 164,600 15,000 11,000 138,600 4,500		10,000 \$2,459,000 8600 152,400 32,200 31,200 1,000 63,000 20,000 20,000 10,000 78,000 21,000	25, \$4,278, 15, 11, 138, 152, 32, 31, 1, 67, 4, 20, 25, 178, 21, 21, 21, 21, 21, 21, 21, 21, 21, 21
310 400 500 stal Intan ngible Dr 100 110	OEE Insurance Overhead Allocation gible Cost illing & Completion Costs Casing Conductor Casing Surface Casing Protection Casing Protection Casing Protection Casing Drilling Liner & Tieback Production Liner/Casing Production Tubing Tubing Pups and cross-overs Subsurface Equipment Liner Hanger & Packer Production Packer, Anchor, Seals Cementing Equipment Gas Lift Mandrels & Valves Pumps Bridge Plugs Wellhead Equipment Production Equipment Stock Tanks 400 BL Water Tank 400 BBL		12	7700 12700 7800	5,000 15,000 \$1,819,000 8400 164,600 15,000 11,000 138,600 4,500		10,000 \$2,459,000 8600 152,400 32,200 31,200 1,000 63,000 20,000 20,000 20,000 21,000 9,000	25, \$4,278, 15, 11, 138, 152, 32, 31, 1, 67, 8, 20, 20, 25, 78, 21, 9,
310 400 500 stal Intan ngible Dr 100 110	OEE Insurance Overhead Allocation gible Cost illing & Completion Costs Casing Conductor Casing Surface Casing Protection Casing Protection Casing Drilling Liner & Tieback Production Tubing Tubing Pups and cross-overs Subsurface Equipment Liner Hanger & Packer Production Packer, Anchor, Seals Cementing Equipment Cas Lift Mandrels & Valves Pumps Bridge Plugs Wellhead Equipment Production Equipment Stock Tanks 400 BL Water Tank 400 BL Water Tank 400 BBL Sand Separator		10,50C 9,00C	7700 12700 7800	5,000 15,000 \$1,819,000 8400 164,600 15,000 11,000 138,600 4,500		10,000 \$2,459,000 8600 152,400 32,200 31,200 1,000 63,000 20,000 20,000 20,000 10,000 78,000 9,000 6,000	25, \$4,278, 15, 11, 138, 152, 32, 31, 67, 15, 19, 20, 25, 178, 21, 9, 6,
310 400 500 stal Intan ngible Dr 100 110	OEE Insurance Overhead Allocation gible Cost illing & Completion Costs Casing Conductor Casing Surface Casing Protection Casing Protection Casing Orilling Liner & Tieback Production Liner/Casing Production Tubing Tubing Pups and cross-overs Subsurface Equipment Liner Hanger & Packer Production Packer, Anchor, Seals Cementing Equipment Gas Lift Mandrels & Valves Pumps Bridge Plugs Wellhead Equipment Stock Tanks 400 BL Water Tank 400 BBL Sand Separator Gas Meters		10,500 9,000	7700 12700 7600	5,000 15,000 \$1,819,000 8400 164,600 15,000 11,000 138,600 4,500		10,000 \$2,459,000 8600 152,400 32,200 31,200 1,000 63,000 20,000 20,000 20,000 20,000 21,000 9,000 6,000 13,500	25, \$4,278,6 317.0 150, 111, 138,6 152, 32, 31, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1
310 400 500 stal Intan ngible Dr 100 110	OEE Insurance Overhead Allocation gible Cost illing & Completion Costs Casing Conductor Casing Surface Casing Protection Casing Protection Casing Drilling Liner & Tieback Production Tubing Tubing Pups and cross-overs Subsurface Equipment Liner Hanger & Packer Production Packer, Anchor, Seals Cementing Equipment Gas Lift Mandrels & Valves Pumps Bridge Plugs Wellhead Equipment Production Equipment Stock Tanks 400 BL Sand Separator Gas Meters Separator - 2 Phase 36"x 10"		10,500 9,000 4,500 8,500	7700 12700 7800	5,000 15,000 \$1,819,000 8400 164,600 15,000 11,000 138,600 4,500		10,000 \$2,459,000 8600 152,400 32,200 31,200 1,000 63,000 20,000 20,000 20,000 21,000 21,000 9,000 6,000 13,500 8,500	25, \$4,278, 15, 15, 138, 152, 32, 31, 1, 67,; 8, 19, 20, 25, 78,( 21, 9, 6, 13, 8,
310 400 500 500 stal Intan ngible Dr 100 110 120	OEE Insurance Overhead Allocation gible Cost illing & Completion Costs Casing Conductor Casing Surface Casing Protection Casing Protection Casing Drilling Liner & Tieback Production Liner/Casing Production Tubing Tubing Pups and cross-overs Subsurface Equipment Liner Hanger & Packer Production Packer, Anchor, Seals Cementing Equipment Gas Lift Mandrels & Valves Pumps Bridge Plugs Wellhead Equipment Production Equipment Stock Tanks 400 BL Water Tank 400 BL Sand Separator Gas Meters Separator - 2 Phase 36"x 10" Heater Treater 6"x 20"		10,500 9,000	7700 12700 7800	5,000 15,000 \$1,819,000 8400 164,600 15,000 11,000 138,600 4,500		10,000 \$2,459,000 8600 152,400 32,200 31,200 1,000 63,000 20,000 20,000 21,000 9,000 6,000 13,500 8,500 20,000 20,000	25, \$4,278, 15, 15, 11, 138, 152, 32, 31, 1, 67, 19, 20, 25, (78,6, 13, 8, 6, 20, 13, 8, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20
310 400 500 500 stal Intan ngible Dr 100 110 120	OEE Insurance Overhead Allocation gible Cost illing & Completion Costs Casing Conductor Casing Surface Casing Protection Casing Protection Casing Drilling Liner & Tieback Production Tubing Tubing Pups and cross-overs Subsurface Equipment Liner Hanger & Packer Production Packer, Anchor, Seals Cementing Equipment Gas Lift Mandrels & Valves Pumps Bridge Plugs Wellhead Equipment Production Equipment Stock Tanks 400 BL Sand Separator Gas Meters Separator - 2 Phase 36"x 10"		10,500 9,000 4,500 8,500	7700 12700 7800	5,000 15,000 \$1,819,000 8400 164,600 15,000 11,000 138,600 4,500		10,000 \$2,459,000 8600 152,400 32,200 31,200 1,000 63,000 20,000 20,000 20,000 21,000 21,000 9,000 6,000 13,500 8,500	25, \$4,278, 15, 15, 15, 15, 15, 15, 15, 15, 15, 15
310 400 500 500 stal Intan ngible Dr 100 110 120	Overhead Allocation gible Cost illing & Completion Costs Casing Conductor Casing Surface Casing Protection Casing Protection Casing Protection Casing Protection Casing Production Liner/Casing Production Liner/Casing Production Tubing Tubing Pups and cross-overs Subsurface Equipment Liner Hanger & Packer Production Packer, Anchor, Seals Cementing Equipment Gas Lift Mandrels & Valves Pumps Bridge Plugs Wellhead Equipment Stock Tanks 400 BL Water Tank 400 BL Sand Separator Gas Meters Separator - 2 Phase 36"x 10" Heater Treater 6"x 20" Miscellaneous Equipment Surface Lines/Gathering System Line Pipe/Fittings		10,500 9,000 4,500 8,500	7700 12700 7800	5,000 15,000 \$1,819,000 8400 164,600 15,000 11,000 138,600 4,500		10,000 \$2,459,000 8600 152,400 32,200 31,200 1,000 63,000 20,000 20,000 21,000 9,000 21,000 9,000 13,500 8,500 8,500 20,000 45,000	25, \$4,278, 15, 11, 138, 152, 32, 31, 67, 20, 25, 78, 19, 6, 13, 8, 20, 45, 20, 25, 20, 25, 20, 25, 21, 21, 21, 21, 21, 21, 21, 21, 21, 21
310 400 500 500 stal Intan ngible Dr 100 110 120	OEE Insurance Overhead Allocation gible Cost  illing & Completion Costs  Casing Conductor Casing Surface Casing Protection Casing Protection Casing Drilling Liner & Tieback Production Tubing Tubing Pups and cross-overs Subsurface Equipment Liner Hanger & Packer Production Packer, Anchor, Seals Cementing Equipment Gas Lift Mandrels & Valves Pumps Bridge Plugs Wellhead Equipment Stock Tanks 400 BL Water Tank 400 BL Water Tank 400 BL Sand Separator - 2 Phase 36"x 10" Heater Treater 6"x 20" Miscellaneous Equipment Surface Lines/Gathering System Line Pipe/Fritings Sucker Rods		10,500 9,000 4,500 8,500	7700 12700 7800	5,000 15,000 \$1,819,000 8400 164,600 15,000 138,600 4,500		10,000 \$2,459,000 8600 152,400 32,200 31,200 1,000 63,000 20,000 10,000 78,000 21,000 9,000 13,500 6,000 13,500 6,000 13,500 6,000 13,500 6,000 20,000 45,000 25,000	25, \$4,278, 15, 11, 138, 152, 32, 31, 67, 19, 20, 25, 13, 8, 20, 45, 120, 25, 120, 25, 13, 8, 20, 25, 120, 25, 13, 8, 20, 25, 120, 25, 13, 13, 14, 15, 15, 15, 15, 15, 15, 15, 15, 15, 15
310 400 500 500 stal Intan ngible Dr 100 110 120	OEE Insurance Overhead Allocation gible Cost  illing & Completion Costs  Casing Conductor Casing Surface Casing Protection Casing Protection Casing Drilling Liner & Tieback Production Tubing Tubing Pups and cross-overs Subsurface Equipment Liner Hanger & Packer Production Packer, Anchor, Seals Cementing Equipment Gas Lift Mandrels & Valves Pumps Bridge Plugs Wellhead Equipment Stock Tanks 400 BL Water Tank 400 BL Water Tank 400 BL Sand Separator - 2 Phase 36"x 10" Heater Treater 6"x 20" Miscellaneous Equipment Surface Lines/Gathering System Line Pipe/Fritings Sucker Rods		10,500 9,000 4,500 8,500	7700 12700 7800	5,000 15,000 \$1,819,000 8400 164,600 15,000 11,000 138,600 4,500		10,000 \$2,459,000 8600 152,400 32,200 31,200 1,000 63,000 20,000 21,000 9,000 10,000 78,000 21,000 9,000 13,500 6,000 13,500 8,500 20,000 20,000 25,000	25, \$4,278, 15, 15, 11, 138, 152, 32, 31, 67, 18, 20, 25, 45, 19, 20, 25, 13, 8, 20, 25, 15, 15, 20, 25, 15, 15, 15, 15, 15, 15, 15, 15, 15, 1
310 400 500 500 stal Intan ngible Dr 100 110 120	Overhead Allocation gible Cost  illing & Completion Costs  Casing Conductor Casing Surface Casing Protection Casing Protection Casing Protection Casing Protection Casing Production Liner/Casing Production Tubing Tubing Pups and cross-overs Subsurface Equipment Liner Hanger & Packer Production Packer, Anchor, Seals Cementing Equipment Gas Lift Mandrels & Valves Pumps Bridge Plugs Wellhead Equipment Stock Tanks 400 BL Water Tank 400 BBL Sand Separator Gas Meters Separator - 2 Phase 36"x 10" Heater Traeter 6"x 20" Miscellaneous Equipment Surface Lines/Gathering System Line Pipe/Fittings Sucker Rods ble Cost		10,500 9,000 4,500 8,500	7700 12700 7800	5,000 15,000 \$1,819,000 8400 164,600 15,000 11,000 138,600 4,500 4,500 5184,100 Drilling		10,000 \$2,459,000 8600 152,400 32,200 31,200 1,000 63,000 20,000 10,000 78,000 21,000 9,000 13,500 6,000 13,500 6,000 13,500 20,000 45,000 25,000 \$380,600 Completion	25, \$4,278, 15, 15, 15, 15, 15, 15, 15, 15, 15, 15
310 400 500 otal Intan ngible Dr 100 110 120	Overhead Allocation gible Cost  illing & Completion Costs  Casing Conductor Casing Surface Casing Protection Casing Protection Casing Protection Casing Protection Casing Production Tubing Tubing Pups and cross-overs Subsurface Equipment Liner Hanger & Packer Production Packer, Anchor, Seals Cementing Equipment Gas Lift Mandrels & Valves Pumps Bridge Plugs Wellhead Equipment Stock Tanks 400 BL Water Tank 400 BL Water Tank 400 BL Sand Separator - 2 Phase 36"x 10" Heater Treater 6"x 20" Miscellaneous Equipment Surface Lines/Gathering System Line Pipe/Fritings Sucker Rods  Die Cost  Total Cost		10,500 9,000 4,500 8,500	7700 12700 7800	5,000 15,000 \$1,819,000 8400 164,600 15,000 11,000 138,600 4,500		10,000 \$2,459,000 8600 152,400 32,200 31,200 1,000 63,000 20,000 10,000 78,000 21,000 9,000 13,500 6,000 13,500 6,000 13,500 20,000 45,000 25,000 \$380,600 Completion \$2,839,600	25, \$4,278, 15, 15, 15, 15, 15, 15, 15, 15, 15, 15
310 400 500 otal Intan ngible Dr 100 110 120	Overhead Allocation gible Cost  illing & Completion Costs  Casing Conductor Casing Surface Casing Protection Casing Protection Casing Protection Casing Protection Casing Production Liner/Casing Production Tubing Tubing Pups and cross-overs Subsurface Equipment Liner Hanger & Packer Production Packer, Anchor, Seals Cementing Equipment Gas Lift Mandrels & Valves Pumps Bridge Plugs Wellhead Equipment Stock Tanks 400 BL Water Tank 400 BBL Sand Separator Gas Meters Separator - 2 Phase 36"x 10" Heater Traeter 6"x 20" Miscellaneous Equipment Surface Lines/Gathering System Line Pipe/Fittings Sucker Rods ble Cost		10,500 9,000 4,500 8,500	7700 12700 7800	5,000 15,000 \$1,819,000 8400 164,600 15,000 11,000 138,600 4,500 4,500 5184,100 Drilling		10,000 \$2,459,000 8600 152,400 32,200 31,200 1,000 63,000 20,000 10,000 78,000 21,000 9,000 13,500 6,000 13,500 6,000 13,500 20,000 45,000 25,000 \$380,600 Completion	25, \$4,278, 15, 15, 11, 138, 152, 32, 31, 67, 19, 20, 25, 13, 8, 20, 45, 19, 20, 25, 1564  Total \$4,842,
310 400 500 otal Intan ingible Dr 100 110 120 130 140	Overhead Allocation gible Cost  illing & Completion Costs  Casing Conductor Casing Surface Casing Protection Casing Protection Casing Protection Casing Protection Casing Production Tubing Tubing Pups and cross-overs Subsurface Equipment Liner Hanger & Packer Production Packer, Anchor, Seals Cementing Equipment Gas Lift Mandrels & Valves Pumps Bridge Plugs Wellhead Equipment Stock Tanks 400 BL Water Tank 400 BL Water Tank 400 BL Sand Separator - 2 Phase 36"x 10" Heater Treater 6"x 20" Miscellaneous Equipment Surface Lines/Gathering System Line Pipe/Fritings Sucker Rods ble Cost  Total Cost  Ittengencies		10,500 9,000 4,500 8,500 20,000	7700 12700 7800	\$1,819,000 \$1,819,000 \$1,819,000 \$1,819,000 15,000 11,000 138,600 4,500 4,500 4,500 \$184,100 Drilling \$2,003,100 \$100,155		10,000 \$2,459,000 8600 152,400 32,200 31,200 1,000 63,000 20,000 10,000 78,000 21,000 9,000 13,500 8,500 20,000 21,000 45,000 25,000 \$380,600 Completion \$2,839,600 \$141,980.00	\$4,842, \$242,
310 400 500 otal Intan ngible Dr 100 110 120	Overhead Allocation gible Cost  illing & Completion Costs  Casing Conductor Casing Surface Casing Protection Casing Protection Casing Protection Casing Protection Casing Production Tubing Tubing Pups and cross-overs Subsurface Equipment Liner Hanger & Packer Production Packer, Anchor, Seals Cementing Equipment Gas Lift Mandrels & Valves Pumps Bridge Plugs Wellhead Equipment Stock Tanks 400 BL Water Tank 400 BL Water Tank 400 BL Sand Separator - 2 Phase 36"x 10" Heater Treater 6"x 20" Miscellaneous Equipment Surface Lines/Gathering System Line Pipe/Fritings Sucker Rods  Die Cost  Total Cost		10,500 9,000 4,500 8,500 20,000	7700 12700 7800	\$1,819,000 \$1,819,000 \$1,819,000 \$1,819,000 15,000 11,000 138,600 4,500 4,500 \$184,100 Drilling \$2,003,100		10,000 \$2,459,000 8600 152,400 32,200 31,200 1,000 63,000 20,000 10,000 78,000 21,000 9,000 13,500 6,000 13,500 6,000 13,500 20,000 45,000 25,000 \$380,600 Completion \$2,839,600	25, \$4,278, 15, 15, 15, 15, 15, 15, 15, 15, 15, 15

Approved By: Top Grant Title: Operations Mayness
Signed this 30th day of September 2013,