

EXHIBIT.

RPR CSR

OSL ESUI	mate - Drilling & (	<i>∟ompletion</i>			<u>,</u>			
	Gastar Exploration USA, Ir			Prepared By	: RDJ	Tax Rate		\Q
	Burton 16-1H		·	Field	: Sooner Trend	Depth:	12,750 '	-
	T18N-R6W, Section16			Parish/County		Days:	30	_
Contractor:				State		Spud Date:	TBD	
Conductor.								
ell Progr	raffa							
Casing	Hole Size C	asing Size Weight,	& Grade	Depth	Drilling Fluid	F	ormation Evaluati	วก
Conductor	20	16		30'	N/A			
Surface	12 1/4	9 5/8" 36# J5	5	500 '	FW	Chi 1	riple Combo, RSW	Corpe
Intermediate	8 3/4	7" 26# J55		7,700	FW Gel w/ABO FW w/Gel	CDL, I	BL, Triple Combo, F	M
Production	6 1/8	4 1/2" 11.6# P1	10	12,700	FVV W/GEI		oc, triple combo, i	-
				l	<del> </del>	-		
osts					8300		8500	
USIS	<del></del>		Item Cost per	Drilling		Completion	Completion	
Code	ltem .		Unit	Days/Units	Drilling Cost	Days/No.	Cost	Total Co
nitalizad I	ntangible Drilling &	Completion Cos					<u></u> '	
					124,000		35,000	159,0
	Site Preparation & Ma	intenance					33,000	5,0
	Permits & Surveys			ļ	5,000		5,000	
	Location, Roads, Pits				60,000		5,000	35,0
	Water/Water Well/Pluggin				30,000		3,000	9,1
	Conductor/Mousehole Inst			<del>}</del>	9,000		5,000	15,
	Site Restoration & Land U	se		ļ	10,000		5,000	10,
	Wellsite Security Roustabouts & Labor	<del>_</del>		+	10,000		20,000	30,
				<del>                                     </del>			2,500	7,
	Title Opinion			<del>                                     </del>	5,000			
120	Drilling/Completion Ri	g			785,000		4,500	789,
	Mob/Demob				125,000			125,
	Rig Rental		22,000	30	660,000		4,500	664,
	Top Drive & Mousehole							
	Additional Crew/Oil Base	рау						
	Engineering & Superv		Į .		88,000		14,000	102,0
	Wellsite Supervision		1,400	30	42,000	10	14,000	56,
	Engineering & Geology				15,000			15,
	Rig Supervisor Camp				30,000			30,
	Communications				500			
	Field/Office Supplies			<u> </u>	500			
140	Fuel	<del>-</del>	1,200	30	36,000		1,500	37,
150	Well Evaluation			-	72,500		100,000	172,
	Open Hole Logging				35,000		80,000	115,
	Cased Hole Logging			1	7,500		10,000	17,
	Mud Logging		1,500	20	30,000			30,
	Core Analysis							
	Drill Stem Testing							
	Fluid Analysis			<u> </u>				
	Production Testing					10	10,000	10,
160	Casing Services		i		23,500		29,500	53,0
	Casing Crews & Rental To	ools	1		20,000		25,000	45,
	Roustabouts & Cleaning				3,500		4,500	8,
	Thread Specialist				<u>i</u>			
170	Cementing Services				35,000		40,000	75,
	Primary Cementing			47.	35,000		40,000	75,
	Remedial Cementing							
	Loss Circulation							
	Squeeze Packers & Cemi	enters		:				
	Kick-Off Plugs			-	80.000		7 500	67
	Drilling Tools			<u> </u>	60,000		7,500	67,
	Drill Bits	_			60,000		7,500	67
	Core Bits		<del></del>	ļ	+			
	Stabilizers/Reamers	inno (ATK)	-	<del> </del>				
	Performance Motors/Turb Drilling Jars	IIICS (ATA)	+				· · · · · · · · · · · · · · · · · · ·	
	Shock Subs			†	<del> </del>		• •	
400	Drilling/Completion FI	uide & Condoor		<del>                                     </del>	130,000		10,000	140,
190		alua ik Jel VICES	<del></del>	1	125,000		10,000	135,
	Fluids & Servcies Shaker Screens				5,000	····	,0,000	5,
	Equipment Rentals		<del>- i</del>	i i	62,500		53,500	116,
	Shale Shaker		<del></del>					
	Mud Cleaner				1			
	Centrifuge				L.,			
	Transfer Pumps						10,000	10,
	Steam Cleaners					L		
	Wear Bushing				1			
	Rentals - Surface			<u> </u>	60,000			60,
	Rentals - Subsurface							
	PVT/Flo-Show							
	BOP Rental			ļ	1	<u> </u>	0.500	
	Forklift				2,500		3,500	6,
	Hydraulic Choke	- <del></del> -			ļ		40.000	40
	Tankage (Frac Tanks)			1	<del> </del>		40,000	40,
210	Drill String		!	<u> </u>	25,000			25,
	Drill Pipe				20,000			20,
	Drill Collars			ļ				
	Drill Pipe Protectors							
	Inspections & Repair	-		1	5,000	<u>-</u>	ļ <del>.</del>	5
	Corrosion Control							
	Environmental				45,000		20,000	65



	Gastar Exploration USA, Inc.		Prepared By:	J	Tax Rate		
	Burton 16-1H			Sooner Trend	Depth:	12,750	
	T18N-R6W, Section16		Parish/County:		Days:	30	
Contractor.	TBD		State:	OK I	Spud Date:	TBD	
	Solid Waste Disposal	1		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			<del></del>			
220	Spill Cleanup Miscellaneous	<u> </u>	<u> </u>	20,000		10,000	30,0
				260,000		10,500	270,5
240	Specialty Tools & Services Directional & MWD Services	<del></del>		260,000	<del></del>	10,500	260,
	Well Surveying (SS,EMS,Gyro)			200,000			200,
	Fishing Tools and Services						
	Sidetrack: Whipstock, Mills, Service						
	Coring Services		<u> </u>				
	Safety (H2S)			<b></b>			
	Control Of Well					6,000	6.
	BOP NU & Testing Services Wellhead Technician			<del>                                     </del>		4,500	4,
250	Trucking & Transportation		<del></del>	10,000	<del>-</del>	7,500	17,
	Welding	<u> </u>	<del> </del>	7,500		3,000	10.
	Production Services	<del></del>	-	1,000	<del></del>	2,080,000	2,080,
210	Stimulation	<del></del>	<del>                                     </del>	<del>                                     </del>		1,600,000	1,600,
	Perforating		+	<del> </del>	-	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			<del>                                     </del>		25,000	25.
200	Facilities Construction  Contract Labor			10,000		20,000	30.
	Plug and Abandonment		<del>                                     </del>	10,000		20,000	30,
	OEE insurance			5,000			5,
	Overhead Allocation	-	i	15,000		10,000	25
tal Intan	gible Cost			\$1,819,000		\$2,459,000	\$4,278,
	illing & Completion Costs			8400		8600	
ngible Dri	illing & Completion Costs		ì	8400		8600	317
ngible Dri	Casing			164,600		8600 152,400	
ngible Dri	Casing  Conductor Casing	22	500				15
ngible Dri	Casing	2 <u>2</u> 18	500 7700	164,600 15,000			15 11
ngible Dri	Casing Conductor Casing Surface Casing Protection Casing Protection Casing			164,600 15,000 11,000			15 11
ngible Dri	Casing Conductor Casing Surface Casing Protection Casing Protection Casing Drilling Liner & Tieback	18	7700	164,600 15,000 11,000		152,400	15 11 138
ngible Dri	Casing Conductor Casing Surface Casing Protection Casing Protection Casing Drilling Liner & Tieback Production Liner/Casing			164,600 15,000 11,000		152,400	15 11 138 152
ngible Dri 100 110	Casing Conductor Casing Surface Casing Protection Casing Protection Casing Drilling Liner & Tieback Production Liner/Casing Production Tubing	18	7700 12700	164,600 15,000 11,000		152,400 152,400 32,200	15 11 138 152 32
ngible Dri 100 110	Casing Conductor Casing Surface Casing Protection Casing Protection Casing Drilling Liner & Tieback Production Liner/Casing Production Tubing Tubing	18	7700	164,600 15,000 11,000		152,400 152,400 32,200 31,200	15 11 138 152 32 31
ngible Dri 100 110	Casing Conductor Casing Surface Casing Protection Casing Protection Casing Drilling Liner & Tieback Production Liner/Casing Production Tubing	18	7700 12700	164,600 15,000 11,000		152,400 152,400 32,200	15 11 138 152 32 31 1
ngible Dri 100 110	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	18	7700 12700	154,600 15,000 11,000 138,600		152,400 152,400 32,200 31,200 1,000 63,000	15 11 138 152 32 31 1 67,
ngible Dri 100 110	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 12700	154,600 15,000 11,000 138,600		152,400 152,400 32,200 31,200 1,000 63,000 8,000	15 11 138 152 32 31 1 67,
ngible Dri 100 110	Casing Conductor Casing Surface Casing Protection Casing Protection Casing Protection Casing Drilling Liner & Tieback Production Liner/Casing IProduction Tubing Tubing Pups and cross-overs Subsurface Equipment Liner Hanger & Packer Production Packer, Anchor, Seals Cementing Equipment	18	7700 12700	154,600 15,000 11,000 138,600		152,400 152,400 32,200 31,200 1,000 63,000 8,000 15,000	15 11 138 152 32 31 1 67,
ngible Dri 100 110	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	18	7700 12700	154,600 15,000 11,000 138,600		152,400 152,400 32,200 31,200 1,000 63,000 8,000	15 11 138 152 32 31 1 67,
ngible Dri 100 110	Casing Conductor Casing Surface Casing Protection Casing Protection Casing Protection Casing Production Casing Production Liner/Casing Production Tubing Itubing Pups and cross-overs Subsurface Equipment Liner Hanger & Packer Production Packer, Anchor, Seals Cementing Equipment Gas Lift Mandrels & Valves Pumps	18	7700 12700	154,600 15,000 11,000 138,600		152,400 152,400 32,200 31,200 1,000 63,000 8,000 15,000 20,000	15 11 138 152 32 31 1 67, 8 19 20
100 100 110 110	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	18	7700 12700	154,600 15,000 11,000 138,600		152,400 152,400 32,200 31,200 1,000 63,000 8,000 15,000 20,000	15 11 138 152 32 31 1 67, 8 19 20
100 100 110 110 120	Casing Conductor Casing Surface Casing Protection Casing Protection Casing Protection Casing Production Casing Production Liner/Casing Production Tubing Itubing Pups and cross-overs Subsurface Equipment Liner Hanger & Packer Production Packer, Anchor, Seals Cementing Equipment Gas Lift Mandrels & Valves Pumps	18	7700 12700	154,600 15,000 11,000 138,600 4,500		152,400 152,400 32,200 31,200 1,000 63,000 8,000 15,000 20,000	15 11 138 152 32 31 1 67, 8 19 20
100 100 110 110 120	Casing Conductor Casing Surface Casing Protection Casing Protection Casing Protection Casing Production 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 Production Equipment Production Equipment Stock Tanks 400 BL	18	7700	154,600 15,000 11,000 138,600 4,500		152,400 152,400 32,200 31,200 1,000 63,000 15,000 20,000 10,000 78,000 21,000	152 111 138 152 322 311 1 1 67, 8 8 19 20 20 25, 78,
100 100 110 110 120	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 BBL Water Tank 400 BBL	18	7700 12700 7800	154,600 15,000 11,000 138,600 4,500		152,400 152,400 32,200 31,200 1,000 63,000 15,000 20,000 20,000 10,000 78,000 21,000 9,000	15 11 138 152 322 32 31 1 1 67, 8 8 9 20 20 25, 78, 21
100 100 1100 1100 120	Casing Conductor Casing Surface Casing Protection Casing Protection Casing Protection Casing Protection Casing Drilling Liner & Tieback Production Inter/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 Sand Separator	18 12 4 4 10,500 9,000	7700 12700 7800	154,600 15,000 11,000 138,600 4,500		152,400 152,400 32,200 31,200 1,000 63,000 15,000 20,000 20,000 10,000 78,000 21,000 9,000 6,000	15 11 138 152 32 31 1 67, 8 8 19 20 20 25, 78, 21 9 6
100 100 110 110 120	Casing Conductor Casing Surface Casing Protection Casing Protection Casing Protection Casing Production Casing Production Liner/Casing Production Tubing Itubing 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	18 12 4 4 10,500 9,000	7700 12700 7800	154,600 15,000 11,000 138,600 4,500		152,400 152,400 32,200 31,200 1,000 63,000 20,000 20,000 20,000 20,000 20,000 21,000 9,000 5,000 13,500	15 11 138 152 32 31 1 67, 20 20 25, 78, 8 21 9 6
100 100 110 110 120	Casing Conductor Casing Surface Casing Protection 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 Production Equipment Production Equipment Stock Tanks 400 BL Water Tank 400 BL Sand Separator Gas Maters Separator - 2 Phase 36"x 10"	18 12 4 10,500 9,000 4,500 8,500	7700 12700 7800	154,600 15,000 11,000 138,600 4,500		152,400 152,400 32,200 31,200 1,000 63,000 15,000 20,000 20,000 10,000 78,000 21,000 9,000 6,000	15 11 138 152 322 323 31 1 1 67, 78, 20 20 25, 78, 21 9 6 6
100 100 110 110 120	Casing Conductor Casing Surface Casing Protection Casing Protection Casing Protection Casing Protection Casing Production 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 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" Miscellaneous Equipment	18 12 4 4 10,500 9,000	7700 12700 7800	154,600 15,000 11,000 138,600 4,500		152,400 152,400 32,200 31,200 1,000 63,000 15,000 20,000 20,000 10,000 78,000 21,000 9,000 6,000 13,500 8,500	15 11 138 152 32 31 1 67, 20 20 25, 78, 21 9 6 6 13 8
100 100 110 110 120	Casing Conductor Casing Conductor Casing Protection 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 Production Equipment Stock Tanks 400 BL Water Tank 400 BBL Sand Separator Gas Matters Separator - 2 Phase 36"x 10" Heater Treater 6"x 20" Miscellaneous Equipment Miscellaneous Equipment Miscellaneous Equipment	18 12 4 10,500 9,000 4,500 8,500	7700 12700 7800	154,600 15,000 11,000 138,600 4,500		152,400 152,400 32,200 31,200 1,000 63,000 15,000 20,000 20,000 21,000 9,000 6,000 13,500 8,500 20,000 45,000 20,000	15 11 138 152 32 31 1 1, 67, 78, 20, 25, 78, 21, 9, 6, 6, 13, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9,
100 100 110 110 120 130 140	Casing Conductor Casing Surface Casing Protection 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 Stock Tanks 400 BBL Sand Separator - 2 Phase 36"x 10" Heater Treater 6"x 20" Miscellaneous Equipment Surface Lines/Gathering System Line Pipe/Fittings	18 12 4 10,500 9,000 4,500 8,500	7700 12700 7800	154,600 15,000 11,000 138,600 4,500		152,400 152,400 32,200 31,200 1,000 63,000 15,000 20,000 20,000 21,000 21,000 9,000 21,000 9,000 13,500 8,500 8,500 20,000 45,000	15 11 138 152 32 31 1 1, 67, 78, 20, 25, 78, 21, 9, 6, 6, 13, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9,
100 100 110 110 120 130 140	Casing Conductor Casing Surface Casing Protection 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 Sand Separator Gas Maters Separator - 2 Phase 36"x 10" Heater Treater 6"x 20" Miscellaneous Equipment Surface Lines/Gathering System Line Pipe/Fittings Sucker Rods	18 12 4 10,500 9,000 4,500 8,500	7700 12700 7800	164,600 15,000 11,000 138,600 4,500 4,500		152,400  152,400  32,200  31,200  1,000  15,000  20,000  20,000  21,000  9,000  6,000  13,500  9,000  45,000  25,000	15 11 138 152 32 31 1 67, 8 199 20 25, 78, 6, 6, 13, 8, 8, 20, 20, 25,
100 100 110 110 120 130 140	Casing Conductor Casing Surface Casing Protection 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 Sand Separator Gas Maters Separator - 2 Phase 36"x 10" Heater Treater 6"x 20" Miscellaneous Equipment Surface Lines/Gathering System Line Pipe/Fittings Sucker Rods	18 12 4 10,500 9,000 4,500 8,500	7700 12700 7800	154,600 15,000 11,000 138,600 4,500		152,400 152,400 32,200 31,200 1,000 63,000 15,000 20,000 20,000 21,000 9,000 6,000 13,500 8,500 20,000 45,000 20,000	15 11 138 152 32 31 1 67, 8 8 199 20 25, 78, 6 6 13 8 8 20 45, 20 25
100 100 110 110 120 130 140	Casing Conductor Casing Surface Casing Protection 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 Sand Separator Gas Maters Separator - 2 Phase 36"x 10" Heater Treater 6"x 20" Miscellaneous Equipment Surface Lines/Gathering System Line Pipe/Fittings Sucker Rods	18 12 4 10,500 9,000 4,500 8,500	7700 12700 7800	164,600 15,000 11,000 138,600 4,500 4,500		152,400  152,400  32,200  31,200  1,000  15,000  20,000  20,000  21,000  9,000  6,000  13,500  9,000  45,000  25,000	15, 11, 138, 15, 15, 16, 17, 18, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19
100 100 110 110 120 130 140	Casing Conductor Casing Surface Casing Protection 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 Sand Separator Gas Maters Separator - 2 Phase 36"x 10" Heater Treater 6"x 20" Miscellaneous Equipment Surface Lines/Gathering System Line Pipe/Fittings Sucker Rods	18 12 4 10,500 9,000 4,500 8,500	7700 12700 7800	164,600 15,000 11,000 138,600 4,500 4,500 15,000 15,000 Drilling		152,400  152,400  32,200  31,200  1,000  15,000  20,000  10,000  78,000  21,000  9,000  6,000  13,500  9,000  45,000  25,000  \$380,600  Completion	15, 11, 138, 15, 15, 16, 17, 18, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19
100 100 110 110 120 130 140	Casing Conductor Casing Surface Casing Protection 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 Stock Tanks 400 BBL Sand Separator Gas Maters Separator - 2 Phase 36"x 10" Heater Treater 6"x 20" Miscellaneous Equipment Surface Lines/Gathering System Line Pipe/Fittings Sucker Rods ble Cost	18 12 4 4 10,500 9,000 4,500 8,500 20,000	7700 12700 7800	164,600 15,000 11,000 138,600 4,500 4,500 4,500 15,000 5184,100 Drilling \$2,003,100		152,400  152,400  32,200  31,200  1,000  15,000  20,000  10,000  78,000  13,500  8,500  20,000  45,000  \$380,600  Completion  \$2,839,600	\$4,842,
100 100 110 110 120 130 140	Casing Conductor Casing Surface Casing Protection Casing Protection Casing Protection Casing Protection Casing Protection Casing Production 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 - 2 Phase 36"x 10" Heater Treater 6"x 20" Miscellaneous Equipment Surface Lines/Galthering System Line Pipe/Fittings Sucker Rods ple Cost  Total Cost tengencies	18 12 4 10,500 9,000 4,500 8,500	7700 12700 7800	164,600 15,000 11,000 136,600 136,600 4,500 4,500 15,000 15,000 5184,100 5184,100 5184,100 5184,100 5184,100		152,400  152,400  32,200  31,200  1,000  63,000  15,000  20,000  20,000  78,000  13,500  6,000  13,500  20,000  45,000  25,000  \$380,600  Completion  \$2,839,600  \$141,980.00	15, 11, 138, 152, 32, 31, 1, 1, 67, 8, 19, 20, 25, 78, 21, 9, 6, 13, 8, 20, 45, 4, 20, 25, \$\$564  Total \$4,842, \$242,
100 100 110 110 120 130 140	Casing Conductor Casing Surface Casing Protection 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 Stock Tanks 400 BBL Sand Separator Gas Maters Separator - 2 Phase 36"x 10" Heater Treater 6"x 20" Miscellaneous Equipment Surface Lines/Gathering System Line Pipe/Fittings Sucker Rods ble Cost	18 12 4 4 10,500 9,000 4,500 8,500 20,000	7700 12700 7800	164,600 15,000 11,000 138,600 4,500 4,500 4,500 15,000 5184,100 Drilling \$2,003,100		152,400  152,400  32,200  31,200  1,000  15,000  20,000  10,000  78,000  13,500  8,500  20,000  45,000  \$380,600  Completion  \$2,839,600	15, 11, 138, 152, 32, 31, 1, 67, 67, 78, 20, 20, 25, 78, 21, 9, 6, 13, 8, 20, 45, 45, 47, 564  Total \$4,842,

Approved By

Company Granter To Purcago

Title: OPS Marieron
Signed this 30 day of Acc 2013