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LOCATION: Section 9-T17S-R32E, NMPM FOOTAGE: 1650' FSL & 1650' FEL		COUNTY & OBJECTIVE	000'	
NTANGIBLE COSTS		BCP	ACP	TOTAL
	201		AOL	4,0
itle/Curative/Permit	_ 201 -	4,000		4,0
isurance	_ 202 -		302	
amages/Right of Way	203		303	
urvey/Stake Location	204	2,500	304	2,5
ocation/Pits/Road Expense	205	30,000	305 5,000	35,0
Drilling / Completion Overhead	206	2,500	306 2,000	4,5
urnkey Contract	- 207 -		307	
ootage Contract	208		308	
Daywork Contract	209		309	175,0
Directional Drilling Services	- 210 -		310	
uel & Power	- 211 -		311 1,000	29,8
Vater	- 212 -		312 32,000	46,0
			and the second se	
lits	- 213 -		313 500	24,5
/ud & Chemicals	214		314	7,0
Drill Stem Test	215	· · · · · · · · · · · · · · · · · · ·	315	
Coring & Analysis	216			····
Cement Surface	217	15,500		15,5
Cement Intermediate #1	218	16,400		16,4
ement Intermediate #2				
Cement Production			319 30,000	30,0
Cement Squeeze	- 220 -		320	
loat Equipment & Centralizers	- 221 -		321 2,000	4,5
asing Crews & Equipment	- 222 -		322 5,500	9,5
ishing Tools & Service	- 222 -		323	
			and the second se	······································
eologic/Engineering	224 _		324	
ontract Labor	225		32510,000	13,0
company Supervision	226		326	
Contract Supervision	227		3275,000	17,0
esting Casing/Tubing	228	1,800	328 2,200	4,(
lud Logging Unit	229	6,000	329	6,0
ogging	230	15,000	330	15,0
erforating/Wireline Services	231		331 24,000	24,0
timulation/Treating (4 fracs)			332 369,000	369,
ompletion Unit			333 20,000	20,
wabbing Unit			334	
entals-Surface	235	· · · · · · · · · · · · · · · · · · ·	335 36,000	41,0
tentals-Subsurface	236		336 10,000	36,
rucking/Forklift/Rig Mobilization	237		337 8,000	48,
/elding Services	238		3381,000	3,
Vater Disposal	239	······	339 3,000	3,
lug to Abandon	240		340	
eismic Analysis	241		341	
Closed Loop & Environmental	244	100,000	344	100,
liscellaneous	242		342	
Contingency 5%	243	27,065	343 28,310	55,3
TOTAL INTANGIBLES		569,000	595,000	1,163,
ANGIBLE COSTS				
urface Casing	401	31,200		31,:
termediate Casing #1	402	75,300		75,
termediate Casing #2				
roduction Casing/Liner			503 154,000	154,
ubing			504 49,000	49,
/ellhead Equipment	405	6,000	505 3,000	9,
umping Unit			506 87,500	87,
rime Mover			507	
ods			508 21,376	21,
umps			509 4,500	4,
anks			510 3,000	
			5105,000	5,
			512 5,000	5,
eater Treater/Separator				
ectrical System			513 10,000	10,
ackers/Anchors/Hangers	414 .		514 900	<u> </u>
ouplings/Fittings/Valves	415		515 7,000	7,
as Compressors/Meters			516	······
ehydrator	_		517	
jection Plant/CO2 Equipment			518	
liscellaneous	419	500	519 500	1,
ontingency 5%	420		520 18,600	24,
TOTAL TANGIBLES		118,700	367,376	486,
TOTAL WELL COSTS		688,000	963,000	1,650,
COG Operating LLC			5/7/10	
y: Erick W. Nelson		Date Prepared:		
le approve:		This AFE is only an e	stimate. By signing you agree to curred.	o pay your share

By: Printed Name: Title: Date:

COG Oper	ating LLC
Cases 14490, 14	491, 14492 and
144	93
Ex	9

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		PROSPECT NAME: Maljamar (Lowe) Pros COUNTY & STATE: Lea County, NM			
-OOTAGE: 2210' FNL & 1650' FEL		OBJECTIV	'E:	Yeso test (4 Fracs) 7000'	
NTANGIBLE COSTS		BCP		ACP	TOTAL
Title/Curative/Permit	201	4,000			4,0
nsurance	201 -	3,800	302	<u> </u>	
		3,000			
Damages/Right of Way	203		303	<u> </u>	
urvey/Stake Location	204	2,500	304		2,5
ocation/Pits/Road Expense	205	30,000	305	5,000	35,0
Drilling / Completion Overhead	206	2,500	306	2,000	4,5
urnkey Contract	207		307		
ootage Contract	208		308	·	
Paywork Contract	209 _	175,000	309	<u> </u>	175,0
Prectional Drilling Services	210		310		
uel & Power Vater	- 211 -	28,800	311	1,000	29,8
lits	- 212 -	14,000	312 313		46,0
fud & Chemicals	<u>213</u>		313	500	24,5
prill Stem Test	$-\frac{214}{215}$ -	7,000	314	<u></u>	7,0
Coring & Analysis	- ²¹⁵ -		310		
ement Surface	- 210 -	15,500			15,5
ement Intermediate #1	- 217 218 -	16,400			16,4
ement Intermediate #2	- 210 -	10,400			10,-
ement Production			319	30,000	30,0
ement Squeeze	- 220 -		319	30,000	30,0
loat Equipment & Centralizers	- ²²⁰ -	2,500	320 321	2,000	4,5
asing Crews & Equipment	- 221 -	4,000	321	5,500	4,0
ishing Tools & Service	- 223 -	4,000	323	0,000	0,0
eologic/Engineering	- 224 -	<u> </u>	324		
ontract Labor	225	3,000	325	10,000	13,0
ompany Supervision	- 226 -	0,000	326	10,000	
ontract Supervision	- 227 -	12,000	327	5,000	17,0
esting Casing/Tubing	228	1,800	328	2,200	4,0
ud Logging Unit	229	6,000	329		6,0
ogging	230	15,000	330		15,0
erforating/Wireline Services	231		331	24,000	24,0
timulation/Treating (4 fracs)			332	369,000	369,0
ompletion Unit			333	20,000	20,0
wabbing Unit			334	<u> </u>	
entals-Surface	235	5,000	335	36,000	41,0
entals-Subsurface	236	26,000	336	10,000	36,0
rucking/Forklift/Rig Mobilization	237 -	40,000	337	8,000	48,0
/elding Services	238	2,000	338	1,000	3,0
/ater Disposal	239	500	339	3,000	3,5
lug to Abandon	240		340		
eismic Analysis	241		341		
losed Loop & Environmental	244	100,000	344		100,0
liscellaneous	242		342		
ontingency 5%	243	27,065	343	28,310	55,3
TOTAL INTANGIBLES		569,000		595,000	1,163,0
ANGIBLE COSTS					
urface Casing	401	31,200			31,2
termediate Casing #1	402	75,300			75,3
termediate Casing #2	_		•		
oduction Casing/Liner			503	154,000	154,0
ubing			504	49,000	49,0
ellhead Equipment	405	6,000	505	3,000	9,0
Imping Unit			506	87,500	87,5
ime Mover			507		
ods			508	21,376	21,3
umps			509	4,500	4,5
inks			510	3,000	3,0
owlines			511	5,000	5,0
eater Treater/Separator			512	3,000	3,0
ectrical System		· · · · · · · · · · · · · · · · · · ·	513	10,000	10,0
ickers/Anchors/Hangers	- 414 -		514	900	9
ouplings/Fittings/Valves	415		515	7,000	7,0
is Compressors/Meters		<u> </u>	516		
ection Plant/CO2 Equipment			517		
ection Plant/CO2 Equipment scellaneous	419 -	500	518	500	1,0
ontingency 5%	- 419 420 -	5,700	519 520	18,600	24,3
TOTAL TANGIBLES	- 420 -	118,700	J20 -	367,376	486,0
TOTAL WELL COSTS		688,000	. •	963,000	1,650,0
OG Operating LLC			-		
y: Erick W. Nelson		Date Prepared:		5/7/10	
e approve:	т	his AFE is only an e	estimat	e. By signing you agree to pay y	∕our share

By: Printed Name: Title: Date:

LOCATION: Section 9-T17S-R32E, NMPM FOOTAGE: 2120' FNL & 475' FEL		COUNTY & STATE: Lea County, NM			,	
FOOTAGE: 2120 FNL & 475 FEL		OBJECTIV	E:	Yeso test (4 Fracs) 7000'		
NTANGIBLE COSTS		BCP		ACP	TOTAL	
Title/Curative/Permit	201	4,000			4,0	
nsurance	202	3,800	302		3,8	
Damages/Right of Way	203		303			
Survey/Stake Location		2,500	304		2,5	
ocation/Pits/Road Expense	205	30,000	305	5,000	35,0	
Drilling / Completion Overhead		2,500	306	2,000	4,5	
urnkey Contract	207		307			
ootage Contract	208		308		.	
Daywork Contract	209	175,000	309		175,0	
Directional Drilling Services	210		310			
uel & Power	211	28,800	311	1,000	29,8	
Vater	212	14,000	312	32,000	46,0	
lits	213	24,000	313	500	24,5	
fud & Chemicals	214	7,000	314	· · · · · · · · · · · · · · · · · · ·	7,0	
Drill Stem Test	215		315	· · · · · · · · · · · · · · · · · · ·		
Coring & Analysis	216		•			
Cement Surface		15,500	•		15,5	
ement Intermediate #1	218	16,400	•		16,4	
Cement Intermediate #2						
ement Production			319	30,000	30,0	
ement Squeeze	220		320			
loat Equipment & Centralizers	221	2,500	321	2,000	4,5	
casing Crews & Equipment	222	4,000	322	5,500	9,	
ishing Tools & Service	223		323			
Geologic/Engineering	224		324			
Contract Labor	225	3,000	325	10,000	13,0	
Company Supervision	226		326			
Contract Supervision	227	12,000	327	5,000	17,0	
esting Casing/Tubing	228	1,800	328	2,200	4,0	
1ud Logging Unit	229	6,000	329		6,0	
ogging	230	15,000	330		15,0	
erforating/Wireline Services	231		331	24,000	24,0	
Stimulation/Treating (4 fracs)			332	369,000	369,0	
Completion Unit			333	20,000	20,0	
Swabbing Unit			334			
Rentals-Surface	235	5,000	335	36,000	41,(
Rentals-Subsurface	236	26,000	336	10,000	36,0	
rucking/Forklift/Rig Mobilization	237	40,000	337	8,000	48,0	
Velding Services	238	2,000	338	1,000	3,0	
Vater Disposal	239	500	339	3,000	3,5	
Plug to Abandon	240		340			
eismic Analysis	241		341 .			
Closed Loop & Environmental	244	100,000	344 .		100,0	
liscellaneous	242		342			
Contingency 5%	243	27,065	343	28,310	55,3	
TOTAL INTANGIBLES		569,000	-	595,000	1,163,0	
ANGIBLE COSTS						
Surface Casing	401	31,200			31,2	
ntermediate Casing #1	402	75,300	-		75,3	
termediate Casing #2	<u> </u>		-			
roduction Casing/Liner			503	154,000	154,0	
ubing			504	49,000	49,0	
/ellhead Equipment	405	6,000	505	3,000	9,0	
umping Unit			506	87,500	87,5	
rime Mover			507			
ods			508	21,376	21,3	
umps			509	4,500	4,5	
anks			510	3,000	3,(
owlines			511	5,000	5,0	
eater Treater/Separator			512	3,000	3,0	
ectrical System	— —		513	10,000	10,0	
ackers/Anchors/Hangers	414		514	900		
ouplings/Fittings/Valves	415		515	7,000	7,0	
as Compressors/Meters			516			
ehydrator	<u> </u>		517			
jection Plant/CO2 Equipment		E00	518	500	A (
	419 420	500	519	<u>500</u>	1,(
	420	5,700	520 .		24,3	
TOTAL TANGIBLES		118,700	-	367,376	486,0	
TOTAL WELL COSTS		688,000		963,000	1,650,0	
OG Operating LLC y: Erick W. Nelson		ate Prepared:		5/7/10		

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Company:

By: Printed Name: Title: Date:

	COUNTY & STA OBJECTIVE:		TE: Lea County, NM Yeso test (4 Fracs) 7100'	<u></u>	
	Objectiv	<u> </u>	1030 1031 (47 1003) 7 100		
	BCP		ACP	<u>TOTAL</u>	
201	4,000			4,0	
202	3,800	302		3,8	
203		303			
204	2,500	304		2,5	
205	30,000	305	5,000	35,0	
206	2,500	306	2,000	4,5	
207		307			
208		308			
209	175,000	309		175,0	
210					
				29,8	
				46,0	
			500	24,5	
	7,000			7,0	
		315		<u></u>	
	45 500			155	
				15,5	
218	16,400			16,4	
		240	20.000	30,0	
			30,000	30,0	
	2.500		2 000	A 7	
				4,5	
	4,000		5,500	9,5	
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	2 000		10.000	13,0	
	3,000		10,000	13,0	
	12 000		5 000	17,0	
				4,(
			2,200		
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	15,000		24.000	24,0	
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	27.065		28.310	55,3	
	569,000		595,000	1,163,0	
401	31 200			31,2	
				75,3	
	10,000		<u></u>		
		503	154,000	154,0	
				49,0	
405	6.000			9,0	
	0,000			87,5	
			21,376	21,3	
		509	4,500	4,5	
		510	3,000	3,(
		511	5,000	5,0	
		512	3,000	3,0	
		513	10,000	10,0	
414		514	900		
415		515	7,000	7,0	
		516			
	· · · · ·	517			
		518			
419	500	519	500	1,0	
420	5,700	520	18,600	24,3	
	118,700		367,376	486,0	
				1 0 7 0	
	688,000		963,000	1,650,0	
_ _	688,000		963,000	1,650,0	
	688,000 Date Prepared:		963,000	1,650,0	
	202 203 203 204 205 206 207 208 209 210 211 212 213 214 214 215 217 218 218 220 221 223 222 224 2230 224 2230 231 2336 237 2336 237 2337 238 240 241 240 241 401 402 401 402 401 402 401 402 401 402 401 402 401 402 401 414	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	

We approve:

e . . .

Company:

By:	 	
Printed Name:		
Title:		
Date:		

This AFE is only an estimate. By signing you agree to pay your share of the actual costs incurred.