## COG OPERATING LLC AUTHORITY FOR EXPENDITURE DRILLING

WELL NAME: Falabella 31 Fee #1H	PROSPECT NAME: Lakewood
Surf. 150' FSL, 380' FWL, Section 31	COUNTY & STATE: Eddy Co. NM
BHL. 330' FNL, 380' FWL, Section 31	OBJECTIVE: 7,400' MD, (2750' TVD) Paddock Test
T18S, R26E	

INTANGIBLE COSTS		BCP		ACP		<u>TOTAL</u>
Title/Curative/Permit	201	10,000				10,000
Insurance	202	22,000	302			22,000
Damages/Right of Way	/ 203	15,000	303			15,000
Survey/Stake Location		3,000	304	· · · · ·		3,000
Location/Pits/Road Expense	205	40,000	305	15,000		55,000
Drilling / Completion Overhead	206	5,000	306	1,000		6,000
Turnkey Contract	207		307			0
Footage Contract	208		308			0
Daywork Contract 15:3 @ \$14000/day	209	210,000	309	42,000		252,000
Directional Drilling Services	210	250,000	310			200,000
Fuel & Power	211	44,625	311	8,925		53,550
Water Bits	212	20,000	312	60,000		80,000
Mud & Chemicals	<sup>213</sup>	40,000 35,000	<sup>313</sup>	1,000		41,000 35,000
Drill Stem Test		33,000	315			0
Coring & Analysis	<u> </u>	· · · · · · · · · · · · · · · · · · ·	313			0
Cement Surface	<u> </u>	50,000	_			50,000
Cement Intermediate		00,000				0
Cement Production 5-1/2"	218		319	25,000		25,000
Cement Squeeze & Other (Kickoff Plug)			320 -			0
Float Equipment & Centralizers	221	2,000	321 -	25,000		27,000
Casing Crews & Equipment		5,000	322	12,000		17,000
Fishing Tools & Service	223		323			. 0
Geologic/Engineering	224	10,000	324	1,000		11,000
Contract Labor	225	10,000	325	21,000		31,000
Company Supervision	226	2,000	326	2,000		4,000
Contract Supervision	227	24,000	327	4,800		28,800
Testing Casing/Tubing	228	4,000	328	12,000		16,000
Mud Logging Unit	229	15,000	329			15,000
Logging	230	0	330			0
Perforating/Wireline Services	231	3,500	331	40,000		43,500
Stimulation/Treating			332	1,400,000		1,400,000
Completion Unit			333	24,000		24,000
Swabbing Unit		05.000	334	75.000		0
Rentals-Surface	235	25,000	335	75,000		100,000
Rentals-Subsurface Trucking/Forklift/Rig Mobilization	236	35,000 45,000	336 337	10,000 20,000		45,000
Welding Services	<u> </u>	5,000	338	2,500		7,500
Water Disposal	239	5,000	339	15,000		15,000
Plug to Abandon	240		340	13,000		15,000
Seismic Analysis	241		341			
Closed Loop & Environmental		75,000	344			75,000
Miscellaneous	242	5,000	342	1,000		6,000
Contingency		102,875	· · · · · · · · · · · · · · · · · · ·	182,775		285,650
TOTAL INTANGIBLES		1,113,000		2,001,000		3,114,000
				<u> </u>		
TANGIBLE COSTS						
Surface Casing 8 5/8" 32#	401	23,850				23,850
Intermediate Casing	402	· · · · ·	503			0
Production Casing/Liner 5 1/2" 17# x 7" 26#			503	151,100		151,100
Tubing 2600' 2 7/8"			504	19,000		19,000
Wellhead Equipment	405	8,000	505	12,000		20,000
Pumping Unit			506	40,000		40,000
Prime Mover			507	20,000		20,000
Rods			508			0
Pumps			509	10,000		10,000
Tanks			510	27,825	o	27,825
Flowlines			511	5,000	8	5,000
Heater Treater/Separator			512	48,500	'n	48,500
Electrical System			513	2,500		2,500
Packers/Anchors/Hangers	414		514	310,000		310,000
Couplings/Fittings/Valves	415	2,500	515	45,250		47,750
Gas Compressors/Meters		<u> </u>	516	4,000		4,000
Dehydrator			517			0
Injection Plant/CO2 Equipment		4 000	518	04.000		0
Miscellaneous	419 420	1,000	519	21,000		22,000
Contingency TOTAL TANGIBLES	420	4,650	520	72,825		77,475
TOTAL WELL COSTS		1,153,000	· · —	2,790,000		3,943,000
	<u> </u>	1,100,000	· —	2,700,000		0,040,000

TOTAL WELL COSTS

COG Operating LLC

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By: J. Coffman / C. Bird / C. Elliott
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Date Prepared: 02/15/2012

We approve: \_\_\_\_% Working Interest

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.

BEFORE THE OIL CONSERVATION DIVISION

Santa Fe, New Mexico Exhibit No. 4A Submitted by: <u>COG OPERATING LLC</u> Hearing Date: <u>March 15, 2012</u>

## COG OPERATING LLC

AU		PERATING LLC		E	
		RILLING		-	
WELL NAME: Falabella 31 Fee #4H PROSPECT NAME: Lakewood					
Surf. 150' FSL, 1040' FEL, Section 31		COUNTY & S	TATE	: Eddy Co. NM	
BHL. 330' FNL, 1040' FEL, Section 31		OBJECTIVE:	7,400	)' MD, (2750' TVD) Pa	ddock Test
T18S, R26E (Pilot Hole TD 4500')	_				
INTANGIBLE COSTS		BCP		ACP	TOTAL
Title/Curative/Permit	201	10,000			10,000
Insurance	202	22,000	302		22,000
Damages/Right of Way	203	15,000	303		15,000
Survey/Stake Location		3,000	304		3,000
Location/Pits/Road Expense	205	40,000	305	15,000	55,000
Drilling / Completion Overhead	206	5,000	306	1,000	6,000
Turnkey Contract	207	<u> </u>	307		
Footage Contract	208	210.000	308 309	42,000	252,000
Daywork Contract 15:3 @ \$14000/day Directional Drilling Services	<u> </u>	250,000	309	42,000	200,000
Fuel & Power	- 210 211 -	44,625		8,925	53,550
Water	- 211 -	20,000		60,000	80,000
Bits	- 212 -	40,000	313	1,000	41,000
Mud & Chemicals	- <sup>213</sup> -	35,000	314	1,000	35,000
Drill Stem Test	- 215 -	55,550	315		
Coring & Analysis	216		• • •		
Cement Surface	217	50,000			50,000
Cement Intermediate	218	<u> </u>	•		(
Cement Production 5-1/2"			319	25,000	25,000
Cement Squeeze & Other (Kickoff Plug)	220		320		(
Float Equipment & Centralizers	221	2,000	321	25,000	27,000
Casing Crews & Equipment	222	5,000	322	12,000	17,000
Fishing Tools & Service	223		323		
Geologic/Engineering	224	10,000	324	1,000	11,00
Contract Labor	225	10,000		21,000	31,00
Company Supervision	226	2,000		2,000	4,00
Contract Supervision	227	24,000		4,800	28,800
Testing Casing/Tubing	228	4,000	328	12,000	16,00
Mud Logging Unit	229	15,000	329		15,00
Logging Perforating/Wireline Services	230	3,500	330	40.000	42.50
Stimulation/Treating	231	3,500	331 332	40,000	43,500
Completion Unit	<del>_</del>		333	24,000	24,00
Swabbing Unit			334		(
Rentals-Surface	235	25,000	335	75,000	100,000
Rentals-Subsurface	236	35,000	336	10,000	45,000
Trucking/Forklift/Rig Mobilization	237	45,000	337	20,000	65,000
Welding Services	238	5,000	338	2,500	7,500
Water Disposal	239		339	15,000	15,00
Plug to Abandon	240		340		
Seismic Analysis	241		341		
Closed Loop & Environmental	244	75,000	344		75,00
Miscellaneous	242	5,000	342	1,000	6,00
Contingency	243	102,875	343	182,775	285,650
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TANGIBLE COSTS					
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Intermediate Casing	402		503		
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Pumps			509	10,000	10,00
Tanks Elowlines			510	27,825	27,82
Flowlines Heater Treater/Separator			511 512	5,000	5,00
Electrical System			512 513	48,500	48,50
Packers/Anchors/Hangers	414		513	310,000	310,00
Couplings/Fittings/Valves	415 -	2,500	515	45,250	47,75
Gas Compressors/Meters			516	4,000	4,000

We approve: \_% Working Interest

Gas Compressors/Meters

Contingency TOTAL TANGIBLES

COG Operating LLC

Injection Plant/CO2 Equipment

By: J. Coffman / C. Bird / C. Elliott

TOTAL WELL COSTS

Dehydrator

Miscellaneous

Company: By:

Date:

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> Printed Name: Title:

 •	By signing you agree to pay your share
of the actual costs incurred.	

Date Prepared:

419

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02/15/2012

1,000 519 4,650 520 40,000

1,153,000

21,000

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2,790,000

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BEFORE THE OIL CONSERVATION DIVISION Santa Fe, New Mexico Exhibit No. 4B Submitted by: <u>COG OPERATING LLC</u> Hearing Date: <u>March 15, 2012</u>

4,000

22,000 77,475 829,000

3,943,000

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