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March 28, 2014



Yates Petroleum Corporation Abo Petroleum Corporation MYCO Industries, Inc. Attn: Janet Richardson 105 South Fourth Street Artesia, NM 88210

RE: <u>Well Proposal – Sherman 4 Fee #2H</u> T19S, R26E, Sections 8: W2E2 Unit Area SHL: 150' FSL & 1645' FWL (or a legal location in Unit N – SESW) BHL: 330' FNL & 1650' FWL (or a legal location in Unit C – Lot 3) Eddy County, New Mexico

To Janet Richardson:

COG Operating LLC (COG), as Operator, proposes to drill the Sherman 4 Fee # 2H well as a horizontal well at the above-captioned location to a TVD of approximately 3,000' and a MD of 7,415' to test the Yeso Formation ("Operation"). The total cost of the Operation is estimated to be \$3,548,000 and a detailed description of the cost is set out in the enclosed Authority for Expenditure ("AFE").

COG is proposing to drill this well under the terms of the modified 1989 AAPL form of Operating. Enclosed is a 1989 AAPL form Operating Agreement. The Operating Agreement covers (T19S R26E Section 4 E/2W/2). It has the following general provisions:

- 200/500 Non-consenting penalty
- \$5,450/\$545 Drilling and Producing rate
- COG named as Operator

If you have any questions, please do not hesitate to contact me at 432-688-6601 or by email at jscott@concho.com

Respectfully,

Joseph Scott Landman

Enclosure(s)

CORPORATE ADDRESS: One Concho Center 600 W Illinois Avenue Midland, Texas 79701 Phone 432.683.7443 Fax 432.683.7441

BEFORE THE OIL CONVERSATION DIVISION Santa Fe, New Mexico Exhibit No. 5 Submitted by: COG OPERATING LLC Hearing Date: May 29, 2014

COG OPERATING LLC AUTHORITY FOR EXPENDITURE DRILLING

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WELL NAME:	SHERMAN 4 FEE #2H				LAKEWOOD/CEMETA	ARY
SHL:	150' FSL & 1645' FWL UL: N			<u>VIY:</u>	New Mexico, Eddy	
BHL:			OBJECTIVE:		SH9 Yeso Horizontal	
FORMATION:	Yeso		DEPTH:		7,636	
LEGAL:	SEC. 4 T19S-R26E API#: 30-015-4	2204	TVD:		3,000	
	COSTS		BCP		ACP	TOTAL
Title/Curative/Perm		201	10,000		<u> </u>	10,000
Insurance	ис	- 202	22,000	302		22.000
		- 202				
Damages/Right of		_	50,000	303		50,000
Survey/Stake Loca	· · · · · · · · · · · · · · · · · · ·	204	3,000	304	0	
Location/Pits/Road		205	55,000	305	25,000	80,000
Drilling / Completio	n Overhead	206	2,500	306	2,000	4,500
Turnkey Contract		207		307	,	0
Footage Contract		208	<u> </u>	308		0
Daywork Contract (0 days f/spud-ris @ \$0)	209	160,000	309	29,000	189,000
Directional Drilling	Services (0 dlr days @ \$0)	210	125,000	310		125,000
Fuel & Power		211	33,000	311	6,000	39,000
Water		212	27,000	312	130,000	157,000
Bits		213	25,000	313	5,000	30,000
Mud & Chemicals		214	21,000	314	0	21,000
Drill Stern Test		215		315	0 -	0
Coring & Analysis	····	216		0.0	·	0
Cement Surface		- 217	40.000		<u> </u>	
······································		_	42,000			42,000
Cement Intermedia		_ 218	0			0
Cement 2nd interm		218	0	319	61,000	61,000
· · · · · · · · · · · · · · · · · · ·	Other (Kickoff Plug)	220		320		0
Float Equipment &		221	2,000	321	20,000	22,000
Casing Crews & Eq		222	5,000	322	12,000	17,000
Fishing Tools & Se		223		323		0
Geologic/Engineeri Contract Labor	ng	- ²²⁴ 225	8,000	324 325	21,000	8,000
Company Supervisi	00	- 225	2,000	325	2,000 -	4,000
Contract Supervisio	ويستعال الشراقية الأراب فيستعمد والمستعال والمتحد والمتحد والمتحد والمتحد والمتحد والمتحد والمتحد والمتحد والمتح	- 227	19,000	327	20,000	39,000
Testing Casing/Tub		228	3.000	328	5,000	8,000
Mud Logging Unit (I		229	10,000	329		10,000
Logging		230	0	330		0
Perforating/Wireline	Services	231	1,500	331	95,000	96,500
Stimulation/Treating)			332	1,100,000	1,100,000
Completion Unit		_		333	30,000	30,000
Swabbing Unit		_		334		0
Rentals-Surface		235	16,000	335	200,000	216,000
Rentals-Subsurface		236	26,000	336	60,000	86,000
Trucking/Forklift/Rk		237	43,000	337	20,000	63,000
Welding Services Water Disposal		- 238 239	5,000	338 339		7,500
Plug to Abandon		- 233		340	0	0
Selsmic Analysis		241		341	0 -	0
Closed Loop & Env	Ironmental	- 244	55,000	344		55,000
Miscellaneous		242	0	342	0	0
Contingency 10%		243	79,000	343	198,500	277,500
TOTAL INTANC	SIBLES	_	866,000		2,174,000	3,040,000
		_	······································		•••••••••••••••••••••••••••••••••••••••	
TANGIBLE CO	STS					
Surface Casing (8		401	25,000			25,000
	g(2150' 8 5/8" 32# J55 LTC)	402	0	503	0	0
Production Casing				503	107,000	107,000
Tubing				504	15,000	15,000
Wellhead Equipme	nt	405	6,000	505	20,000	26,000
Pumping Unit		_		506	60,000	60,000
Prime Mover			<u> </u>	507	20,000	20,000
Rods				508	12,000	12,000
Pumps		_	<u> </u>	509 510	70,000	70,000
Tanks		-		510 511	21,000	
Flowlines		-		512	30,000	30,000
Heater Treater/Sep		-		512	20,000	20,000
Electrical System Packers/Anchors/H	anoart	414	0	514	20,000	2,500
Couplings/Fittings/		415	500	515	60,000	60,500
Gas Compressors/		- 413		516	5,000	5,000
Dehydrator		-		517		0,000
Injection Plant/CO2	2 Equipment	-		518	<u> </u>	0
		419	500	519	500	1,000
Miscellaneous						
Miscellaneous Contingency		420	2,000	520	23,000	
	BLES	420	2,000 34,000 900,000	520	<u> </u>	25,000 508,000 3,548,000

COG Operating LLC

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By: Carl Bird

We approve: _____% Working Interest

Company: By: Printed Name: Title: Date: Date Prepared: 2/12/2014

et Burleson By:

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