



February 19, 2015

Yates Industries LLC Sharbro Energy LLC P.O. Box 840 Artesia, NM 88211 Attn: Ms. Hannah Palomin

 Re: Well Proposal – Pilum 15 Fee #1H T18S, R26E, Sections 15: N2S2 Unit Area SHL: 2485' FSL & 425' FEL Section 16, or at a legal location BHL: 2322' FSL & 330' FEL Section 15, or at a legal location Eddy County, New Mexico

Dear Ms. Palomin:

COG Operating LLC (COG), as Operator, proposes to drill the Pilum 15 Fee #1H well as a horizontal well at the above-captioned location to a TVD of approximately 2,765' and a MD of 7,750' to test the Yeso Formation ("Operation"). The total cost of the Operation is estimated to be \$3,099,000.00 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 Agreement modified for horizontal development. Enclosed is a 1989 AAPL for Operating Agreement. It has the following general provisions:

- 100/300 Non-consenting penalty
- \$6,000.00/\$600.00 Drilling and Producing rate
- COG named as Operator

If you do not wish to participate in the Operation, COG would like to acquire a Term Assignment of your leasehold for the following general terms:

- 1 year primary term
- Delivering a 1.0% ORRI, proportionately reduced
- \$150.00 per net acre bonus consideration

If we do not reach an agreement within 30 days of the date of this letter COG will request that the New Mexico Oil Conservation Division issue an order for compulsory pooling of your interest into a spacing unit for the proposed well.

BEFORE THE OIL CONVERSATION DIVISION Santa Fe, New Mexico Exhibit No. 5 Submitted by: COG Operating LLC Hearing Date: April 2, 2015

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

Please indicate your election to participate in the well by signing and returning the enclosed AFE and the second page of this letter. If you desire to receive well information regarding the subject operations please return a Well Information Requirements list to COG. Technical questions should be directed to Carl Bird at 432-686-3057 and land questions to the undersigned at 432-685-4354.

If you have any questions, please do not hesitate to contact the undersigned at 432-685-4354.

Respectfully,

Stuart A. Dirks, CPL Senior Landman Enclosure(s) SD/JKF

Yates Industries LLC Pilum 15 Fee #1H, Well Proposal February 19, 2015

 Elect to limit participation to original working interest in the Plium 15 Fee #1H.

Elect to assume proportionate share of the non-consenting parties' working interest in the Pilum 15 Fee #1H.

Elect to assume all available non-consenting parties' working interest in the Pilum 15 Fee #1H.

Date:

By:	
Printed Name:	
Title	

Sharbro Energy LLC

Pilum 15 Fee #1H, Well Proposal February 19, 2015

Elect to limit participation to original working interest in the Pilum 15 Fee #1H.

- Elect to assume proportionate share of the non-consenting parties' working interest in the Pilum 15 Fee #1H.
 - Elect to assume all available non-consenting parties' working interest in the Pilum 15 Fee #1H.

By:	Date:
Printed Name:	
Title:	

COG OPERATING LLC AUTHORITY FOR EXPENDITURE DRILLING

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SHL:	2485' FSL & 425' FEL (UL: I; SEC. 1	6)	STATE & COUI	VTY:	New Mexico, Eddy	
BHL	2322' FSL & 330' FEL (UL: I; SEC. 1		OBJECTIVE:		SH9 Yeso Horizontal	
FORMATION		<u>.</u>	DEPTH:		7,750	
EGAL:	T18S-R26E, SEC. 15		TVD:		2,765	· · · ·
	1.00 1.202, 020, 10				2,100	·
NTANGIBLE	COSTS		BCP		ACP	TOTAL
Tille/Curative/Per		201	11,000			101.40
		- 202		302	, _	
nsurance	Z184	-	3,000		·	
Damages/Right o		203	40,000	303		. 40
Survey/Stake Loo		204	7,000	304	0	7
ocation/Pits/Roa	id Expense	205	85,000	305	25,000	110
Drilling / Complet	ion Overhead	206	3,000	306	2,000	5
umkey Contract		207		307		
ootage Contract		208		308		
aywork Contrac	t (0 days f/spud-ris @ \$0)	209	130,000	309	0	130
	Services (0 dir days @ \$0)	210	95,000	310		95
uel & Power		211	25,000	311	5.000	30
Vater		_		•	105,000	129
		- 212	24,000	312		
lits		- 213	20,000	313	5,000	25
lud & Chemicals		_ 214	28,000	314	0	28
rill Stem Test		215		315	<u> </u>	
oring & Analysis		218				
ement Surface		217	35,000	-		· 35
ement intermed	iate	218	0	•		
	mediate/Production	218		319	42,000	42
	& Other (Kickoff Plug)	220		320	0	
		-	2,000	-	18.000	20
loat Equipment i asing Crews & E		- 221 222	4,250	321 322	10,200	
		- 222		323	10,200	14
Ishing Tools & S eologic/Enginee		- 223	2,000	324	· · · · · · · · · · · · · · · · · · ·	2
contract Labor	ang .	225	29,750	325	42,000	71
ompany Supervi	ision	226	2,000	326	2,000	4
ontract Supervis		- 227	17,000	327	46,000	. 63
esting Casing/Ti		228	2,490	328	4,500	
Aud Logging Unit		229	15,000	329		15
ogging		230	18,000	330		18
Perforating/Wireli	ne Services	231	1,500	331	130,000	131.
timulation/Treat		-	<u> </u>	332	970,000	970
ompletion Unit				333	35,000	35
wabbing Unit		-		334		
Rentals-Surface		235	13,000	335	240,000	253,
tentals-Subsurfa	CB	236	23,000	336	15,000	38
rucking/Forklift/F	Rig Mobilization	237	42,000	337	60,000	102
Velding Services		238	5,000	338	3,000	8
ater Disposal		239	0	339	20,000	20
lug to Abandon	· · · · · · · · · · · · · · · · · · ·	240	0	340	0	
eismic Analysis		241	0	341	0	
tosed Loop & En	vironmental	_ 244	56,000	344 .	0	56
liscellaneous		242	0	342	0	
contingency 5%		243	37,010	343	89,300	126,
TOTAL INTAN	GIBLES	-	776,000		1,869,000	2,645,
ANGIBLE CO						
	5/8" 32# J55 LTC)	401			<u> </u>	28
	ng(2150' 8 5/8" 32# J55 LTC)	402	0	503	0	
) (5 1/2" 17# L80)	_		503	113,000	113.
ubing				504	15,000	15,
/ellhead €quipm	ent	405	5,790	505	18,000	23
umping Unit	· · · · · · · · · · · · · · · · · · ·	-		508	54,000	54.
nme Mover ods		-		507 508	11,000	11,
umps		-		509	63,000	63
anks		-		510	19,000	19
owlines		-		511	11,000	11
eater Treater/Se	parator	-		512	29,000	29
ectrical System	·	-		513	18,000	18
ackers/Anchors/	Hangers	414	0	514	2,000	2
ouplings/Fittings		415	500	515	36,000	36
as Compressors		-	-	516	4,000	4
ehydrator	·····	-	·	517		
jection Plant/CO	2 Equipment	-		518		
		419	500	519	4,000	4
iscellaneous						
iscellaneous ontingency		420	2,210	520	20,000	22
	BLES	420	2,210	520	417,000	22 454 3,099

By: Carl Bird

We approve: ____% Working interest

Company: By:

Printed Name; Title: Date;

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

JKF

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Date Prepared: 2/19/2015

COG Operating LLC

By:

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