

April 21, 2016

Yates Brothers, a Partnership PO Box 1394 Artesia, NM 88211

RE: Well Proposal - Clydesdale 1 Fee #5H

SHL: 2135' FSL & 150' FEL (Unit I) BHL: 2310' FSL & 330' FWL (Unit L)

Section 1, T19S, R25E, Eddy County, New Mexico

To Whom It May Concern,

COG Operating LLC ("COG"), as Operator, proposes to drill the Clydesdale 1 Fee #5H well at the captioned location, or at an approved surface location within Unit Location I, to a depth of approximately 3,200' TVD, 7,750' MD, to test the Yeso Formation ("Operation"). The total cost of the Operation is estimated to be \$2,559,500 and a detailed description of such 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. Enclosed is a 1989 AAPL form Operating Agreement. The Operating Agreement covers (T19S-R25E, Section 1: N2S2). It has the following general provisions:

- 200/500 Non-consenting penalty
- \$5,450.00/\$545.00 Drilling and Producing rate
- · COG named as Operator

If you do not wish to participate in the Operation, COG would like to lease your interest for the following general terms:

- 3 year primary term
- 3/16 Royalty, proportionately reduced
- \$150.00 per net acre bonus consideration

COG will apply to the New Mexico Oil Conservation Division for compulsory pooling for the Operation. If we do not reach an agreement within 30 days of this letter, your interest will be named in the application.

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 Stuart Dirks at 432-685-4354.

Yours Truly,

**COG Operating LLC** 

Jessica K. Froman Land Tech, NM Shelf

Enclosure(s) SD/JKF

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

Hearing Date: May 25, 2016

## COG OPERATING LLC AUTHORITY FOR EXPENDITURE DRILLING

SHL: 2135' FSL & 150' FEL (I)		STATE & COUNT	Y: New Mexico, Eddy	
BHL: 2310' FSL & 330' FWL (L)		OBJECTIVE:	Yeso Horizontal	
FORMATION: YESO		DEPTH:	7,750	
LEGAL: T19S-R25E, SEC. 1 NESE		TVD:	3,200	
NTANGIBLE COSTS		<u>BCP</u>	<u>ACP</u>	<u>TOTAL</u>
Title/Curative/Permit	201	11,000		11,0
Insurance	202	3,000 30		3.0
Damages/Right of Way	203	40,000 30		40,0
Survey/Stake Location	204	7,000 30		7,0
Location/Pits/Road Expense	205	65.000 30	· <del></del>	72,0
Drilling / Completion Overhead	208	3,000 30		7.0
Turnkey Contract	- 207	30		
Footage Contract	_ 208	30		
Daywork Contract (0 days f/spud-rls @ \$0)	209	110,000 30		110.00
Directional Drilling Services (0 dir days @ \$0)	- 210	70,000 31		70,0
Fuel & Power	- 211	12,000 31		13,0
Water	- 212	21,000 31		142.0
Bits	213	20,000 31		23.00
Mud & Chemicals	214	24,000 31		24,0
Drill Stem Test	215	31	50	
Coring & Analysis	216			
Cement Surface	- 217	30,000		30,0
Cement Intermediate	- 218	0	29.000	
Cement 2nd Intermediate/Production	- 218	0 31		36,0
Cement Squeeze & Other (Kickoff Plug)	- 220	1 000 12		7.0
Float Equipment & Centralizers Casing Crews & Equipment	- 221 222	1,000 32 3,078 32		10.0
Fishing Tools & Service	- 223	3.076 32		10.0
Geologic/Engineering	224	32		
Contract Labor	225	4,250 32		85,7
Company Supervision	226	2,000 32		9.0
Contract Supervision	227	14,000 32		70,0
Testing Casing/Tubing	228 229	2,490 32 13,000 32		7,4
Mud Logging Unit Logging	230	15,560 32		18,54
Perforating/Wireline Services	231	1,500 33		112,5
Stimulation/Treating	-	33		777,00
Completion Unit	_	33	3 30,000	30.00
Swabbing Unit	<u>.</u>	33		
Rentals-Surface	235	11,000 33		158,00
Rentals-Subsurface Trucking/Forklift/Rig Mobilization	- 238 237	16.000 33 39,000 33		109,00
Welding Services	238	4,500 33		5.50
Water Disposal	239	0 33		9,00
Plug to Abandon	240	0 34		
Seismic Analysis	241	0 34		
Closed Loop & Environmental	244	32,000 34		32.00
Miscellaneous	- 242 243	0 34 12,622 34		74.62
Contingency 2% TOTAL INTANGIBLES	. 243	12,622 34 592,000	3 <u>62,000</u> 1,551,500	2.143.50
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TANGIBLE COSTS				
Surface Casing (8 5/8" 32# J55 LTC)	401	21,000		21,00
intermediate Casing (8 5/8" 32# J55 LTC)	402	0 50		
Production Casing (5 1/2" 17# L80)	-	50		84,00
Tubing Wallhard Equipment	405	4.300 50		11,00
Wellhead Equipment Pumping Unit	- 400	50		84.00
Prime Mover	-	50		
Rods	-	50		13,00
Pumps	_	50		10,00
Tanks	-	5†		25,00
Flowlines	-			37,56
Heater Treater/Separator Electrical System	-	51.		28,00
Packers/Anchors/Hangers	414	0 51		2,00
Couplings/Fittings/Valves	415	500 51		50,50
Gas Compressors/Meters		51	6 8.000	8.00
Dehydrator	-	51		
Injection Plant/CO2 Equipment Miscellaneous	419	500 51		10.50
Miscellaneous Contingency	419	700 52		10,50
TOTAL TANGIBLES	•	27,000	389.000	416.00
TOTAL WELL COSTS		819.000	1,940.500	2.559,50
COG Operating LLC				
By: Carl Bird/Paul Final		Date Prepared: 2-3-	-16 J#	
By: Carl Bird/Paul Figel	-		NE	
		COG Operating LLC		
Ne approve:				
We approve:		Ву:		_
% Working Interest		Ву:		-
% Working Interest  Company:		Ву:		_
		Ву:		_
		Ву:	_	_
We approve:			mate. By signing you agree	to pay your share