



Sent Certified Mail
Receipt No. 91-7199-9991-7034-5786-2053

August 13, 2015

Janet M. Hanley
5422 Beaver Lodge Drive
Kingwood, TX 77345

RE: Well Proposal - Bone Yard 11 Fee #12H
SHL: 170' FSL & 1460' FWL (Unit N), Section 2
BHL: 330' FSL & 1660' FWL (Unit N), Section 11
T20S, R25E, Eddy County, New Mexico

Dear Ms. Hanley:

COG Operating LLC ("COG"), as Operator, proposes to drill the Bone Yard 11 Fee #12H as a horizontal well at the above-captioned location or at an approved surface location within location unit letter N, to a depth of approximately 2855' TVD, 7825' MD to test the Yezo Formation ("Operation"). The total cost of the Operation is estimated to be \$2,786,000 and a detailed description of the cost is set out in the enclosed Authority for Expenditure ("AFE"). COG anticipates that it will spud the well on or before November 1, 2015.

COG is proposing to drill this well under the terms of a modified 1989 AAPL Model Form Operating Agreement ("OA") covering the E 1/2 of the W 1/2 of Section 11, T-20-S, R-25-E, with the following general provisions:

- 100/300 Non-consenting penalty
- \$6000 per month drilling rate - \$600 per month producing rate
- COG named as Operator
(a draft of our proposed OA is enclosed)

If you wish to participate in the Operation, please sign and return the AFE. If you desire to receive well information regarding the subject operations, please include a Well Information Requirements list with the AFE. Upon receipt of your signed AFE, we will send an executable copy of the OA.

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

- Three year primary term
- 3/16 Royalty Interest, proportionately reduced
- \$150 per net acre bonus consideration

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

Please direct any technical questions to Carl Bird at 432-686-3057 and land questions to the undersigned at 432-685-4354.

Yours Truly,

COG Operating LLC

Stuart A. Dirks, CPL
Senior Landman

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

BEFORE THE OIL CONSERVATION
DIVISION
Santa Fe, New Mexico
Exhibit No. 8
Submitted by: COG OPERATING LLC
Hearing Date: October 1, 2015

**COG OPERATING LLC
AUTHORITY FOR EXPENDITURE
DRILLING**

WELL NAME: BONE YARD 11 FEE #12H	PROSPECT NAME: LAKEWOOD/CEMETARY
SHL: 170' FSL 1460' FWL (UL N - Sec 2)	STATE & COUNTY: New Mexico, Eddy
BHL: 330' FSL 1660' FWL (UL N - Sec 11)	OBJECTIVE: Yeso Horizontal
FORMATION: Yeso	DEPTH: 7,825
LEGAL: T20S-R25E, SEC. 11	TVD: 2,855

INTANGIBLE COSTS		BCP	ACP	TOTAL
Title/Curative/Permit	201	11,000		11,000
Insurance	202	4,000	302	4,000
Damages/Right of Way	203	40,000	303	40,000
Survey/Stake Location	204	7,000	304	7,000
Location/Pits/Road Expense	205	85,000	305	110,000
Drilling / Completion Overhead	206	3,000	306	5,000
Turnkey Contract	207		307	0
Footage Contract	208		308	0
Daywork Contract (0 days /spud-rs @ \$0)	209	156,000	309	156,000
Directional Drilling Services (0 dir days @ \$0)	210	99,000	310	99,000
Fuel & Power	211	24,000	311	29,000
Water	212	29,000	312	114,000
Bits	213	20,000	313	25,000
Mud & Chemicals	214	34,000	314	34,000
Drill Stem Test	215		315	0
Coring & Analysis	216			0
Cement Surface	217	32,000		32,000
Cement Intermediate	218	0		0
Cement 2nd Intermediate/Production	218	0	319	38,000
Cement Squeeze & Other (Kickoff Plug)	220		320	0
Float Equipment & Centralizers	221	1,100	321	8,100
Casing Crews & Equipment	222	3,800	322	12,800
Fishing Tools & Service	223		323	0
Geologic/Engineering	224		324	0
Contract Labor	225	5,000	325	47,000
Company Supervision	226	2,000	326	4,000
Contract Supervision	227	18,000	327	84,000
Testing Casing/Tubing	228	2,490	328	6,990
Mud Logging Unit	229	18,000	329	18,000
Logging	230	18,000	330	18,000
Perforating/Wireline Services	231	1,500	331	118,000
Stimulation/Treating			332	824,000
Completion Unit			333	35,000
Swabbing Unit			334	0
Rentals-Surface	235	15,000	335	220,000
Rentals-Subsurface	236	28,000	336	15,000
Trucking/Forklift/Rig Mobilization	237	44,000	337	60,000
Welding Services	238	5,000	338	3,000
Water Disposal	239	0	339	20,000
Plug to Abandon	240	0	340	0
Seismic Analysis	241	0	341	0
Closed Loop & Environmental	244	42,000	344	0
Miscellaneous	242	0	342	0
Contingency 2%	243	15,110	343	32,500
TOTAL INTANGIBLES		763,000	1,598,000	2,361,000
TANGIBLE COSTS				
Surface Casing (8 5/8" 32# J55 LTC)	401	25,000		25,000
Intermediate Casing (8 5/8" 32# J55 LTC)	402	0	503	0
Production Casing (5 1/2" 17# L80)			503	109,000
Tubing			504	15,000
Wellhead Equipment	405	5,790	505	18,000
Pumping Unit			506	54,000
Prime Mover			507	0
Rods			508	11,000
Pumps			509	63,000
Tanks			510	19,000
Flowlines			511	11,000
Heater Treater/Separator			512	29,000
Electrical System			513	18,000
Packers/Anchors/Hangers	414	0	514	2,000
Couplings/Fittings/Valves	415	500	515	36,000
Gas Compressors/Meters			516	4,000
Dehydrator			517	0
Injection Plant/CO2 Equipment			518	0
Miscellaneous	419	500	519	4,000
Contingency	420	210	520	0
TOTAL TANGIBLES		32,000	393,000	425,000
TOTAL WELL COSTS		795,000	1,991,000	2,786,000

COG Operating LLC

By: Carl Blid

Date Prepared: 8/10/2015

COG Operating LLC

We approve:
_____% Working Interest

By: _____

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.