COG OPERATING LLC
AUTHORITY FOR EXPENDITURE
DRILLING

WELL NAME:	COACHMAN FEE COM #14H	PROSPECT NAME:	BULLDOG 2535 (717109)
SHL:	190 FNL & 580 FWL	STATE & COUNTY:	New Mexico, Lea
BHL:	330 FSL & 580 FWL	OBJECTIVE:	DRILL & COMPLETE
FORMATION:	BRUSHY CANYON	DEPTH:	13,575
LEGAL:	21-25S-35E	TVD:	9,060

INTANGIBLE COSTS		BCP		ACP	TOTAL
Title/Curative/Permit	201	9,000			9,000
Insurance	202	4,000	302		4,000
Damages/Right of Way	203	7,000	303		7,000
Survey/Stake Location	204	4,000	304		4,000
Location/Pits/Road Expense	205	60,000	305	110,000	170,000
Drilling / Completion Overhead	206	8,000	306		8,000
Turnkey Contract	207	0	307		0
Footage Contract	208	0	308		0
Daywork Contract	209	295,000	309		295,000
Directional Drilling Services	210	104,000	310		104,000
Fuel & Power	211	30,000	311	8,500	38,500
Water	212	42,000	312	330,000	372,000
Bits	213	60,000	313	3,000	63,000
Mud & Chemicals	214	30,000	314	8,500	38,500
Drill Stem Test	215	0	315		0
Coring & Analysis	216	0			0
Cement Surface	217	25,500			25,500
Cement Intermediate	218	36,000			36,000
Cement 2nd Intermediate/Production	218	0	319	95,000	95,000
Cement Squeeze & Other (Kickoff Plug)	220	0	320		0
Float Equipment & Centralizers	221	4,500	321	6,500	11,000
Casing Crews & Equipment	222	12,500	322	13,500	26,000
Fishing Tools & Service	223	0	323		0
Geologic/Engineering	224	0	324		0
Contract Labor	225	5,500	325	154,000	159,500
Company Supervision	226	0	326		0
Contract Supervision	227	43,000	327	70,000	113,000
Testing Casing/Tubing	228	10,000	328	10,000	20,000
Mud Logging Unit	229	15,000	329		15,000
Logging	230	0	330		0
Perforating/Wireline Services	231	4,000	331	130,000	134,000
Stimulation/Treating		0	332	984,000	984,000
Completion Unit		0	333	42,500	42,500
Swabbing Unit		0	334		0
Rentals-Surface	235	77,000	335	186,000	263,000
Rentals-Subsurface	236	73,000	336		73,000
Trucking/Forklift/Rig Mobilization	237	85,000	337	45,000	130,000
Welding Services	238	3,500	338	5,000	8,500
Water Disposal	239	0	339	420,000	420,000
Plug to Abandon	240	0	340		0
Seismic Analysis	241	0	341		0
Closed Loop & Environmental	244	140,000	344	5,000	145,000
Miscellaneous	242	0	342		0
Contingency	243	24,000	343	34,500	58,500
TOTAL INTANGIBLES		1,211,500		2,661,000	3,872,500

TANGIBLE COSTS		BCP		ACP	TOTAL
Surface Casing	401	29,000			29,000
Intermediate Casing	402	113,000	503		113,000
Production Casing		0	503	165,000	165,000
Tubing		0	504	34,500	34,500
Wellhead Equipment	405	25,000	505	23,000	48,000
Pumping Unit		0	506	87,173	87,173
Prime Mover		0	507		0
Rods		0	508	35,000	35,000
Pumps		0	509	60,000	60,000
Tanks		0	510	48,776	48,776
Flowlines		0	511	27,000	27,000
Heater Treater/Separator		0	512	106,262	106,262
Electrical System		0	513	86,000	86,000
Packers/Anchors/Hangers	414	0	514	0	0
Couplings/Fittings/Valves	415	0	515	228,000	228,000
Gas Compressors/Meters		0	516	11,000	11,000
Dehydrator		0	517		0
Injection Plant/CO2 Equipment		0	518		0
Miscellaneous	419	0	519	38,000	38,000
Contingency	420	0	520	34,000	34,000
TOTAL TANGIBLES		167,000		983,711	1,150,711
TOTAL WELL COSTS		1,378,000		3,644,711	5,023,711

COG Operating LLC

Date Prepared: 2/15/2018

COG Operating LLC

We approve:
_____% Working Interest

By: TRAVIS NEWMAN/KEN LAFORTUNE KG

Company: Ohio State University
By:

Printed Name:
Title:
Date:

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

OCD Case No. 15485

COG OPERATING
Exhibit # 7