

**COG OPERATING LLC
AUTHORITY FOR EXPENDITURE
DRILLING**

WELL NAME: GOLDFINGER 17 FED COM #2H	PROSPECT NAME: BULLDOG 2432
SHL: 190 FSL & 1980 FWL	STATE & COUNTY: New Mexico, Lea
BHL: 330 FNL & 1980 FWL	OBJECTIVE: DRILL AND COMPLETE
FORMATION: BRUSHY	DEPTH: 13,067
LEGAL: 17-T24S-R32E	TVD: 8,480

INTANGIBLE COSTS		BCP	ACP	TOTAL
Title/Curtive/Permit	201	11,000		11,000
Insurance	202	5,000	302	5,000
Damage/Right of Way	203	15,000	303	15,000
Survey/Spoke Location	204	7,000	304	7,000
Location/Pits/Road Expense	205	100,000	305	125,000
Drilling / Completion Overhead	206	6,000	306	6,000
Turnkey Contract	207	0	307	0
Footage Contract	208	0	308	0
Daywork Contract	209	385,000	309	385,000
Directional Drilling Services	210	178,000	310	178,000
Fuel & Power	211	85,000	311	95,000
Water	212	70,000	312	245,000
Bits	213	78,000	313	82,500
Mud & Chemicals	214	65,000	314	65,000
Drill Stem Test	215	0	315	0
Coring & Analysis	216	0		0
Cement Surface	217	35,000		35,000
Cement Intermediate	218	55,000		55,000
Cement 2nd Intermediate/Production	219	0	319	100,000
Cement Squeeze & Other (Kickoff Plug)	220	0	320	0
Float Equipment & Centralizers	221	15,000	321	30,000
Casing Crews & Equipment	222	20,000	322	40,000
Fishing Tools & Service	223	0	323	0
Geologic/Engineering	224	0	324	0
Contract Labor	225	15,000	325	140,000
Company Supervision	226	0	326	0
Contract Supervision	227	41,600	327	91,800
Testing Casing/Tubing	228	7,000	328	7,000
Mud Logging Unit	229	21,000	329	21,000
Logging	230	75,000	330	85,000
Perforating/Wireline Services	231	5,000	331	125,000
Stimulation/Treating	232	0	332	1,400,000
Completion Unit	233	0	333	50,000
Swabbing Unit	234	0	334	0
Rentals-Surface	235	85,000	335	335,000
Rentals-Subsurface	236	105,000	336	130,000
Trucking/Forklift/Rig Mobilization	237	125,000	337	150,000
Welding Services	238	5,000	338	7,500
Water Disposal	239	0	339	150,000
Plug to Abandon	240	0	340	0
Seismic Analysis	241	0	341	0
Closed Loop & Environmental	242	180,000	342	190,000
Miscellaneous	243	0	343	0
Contingency	244	90,400	344	140,400
TOTAL INTANGIBLES		1,885,000	2,622,000	4,507,000
TANGIBLE COSTS				
Surface Casing	401	39,000		39,000
Intermediate Casing	402	116,000	503	116,000
Production Casing		0	503	208,000
Tubing		0	504	44,000
Wellhead Equipment	405	15,000	505	50,000
Pumping Unit		0	506	115,000
Prime Mover		0	507	20,000
Rods		0	508	40,000
Pumps		0	509	37,000
Tanks		0	510	75,000
Flowlines		0	511	70,000
Heater Treater/Separator		0	512	65,000
Electrical System		0	513	0
Packers/Anchors/Hangers	414	0	514	10,000
Couplings/Fittings/Valves	415	0	515	170,000
Gas Compressors/Meters		0	516	8,100
Dehydrator		0	517	0
Injection Plant/CO2 Equipment		0	518	0
Miscellaneous	419	0	519	0
Contingency	420	9,000	520	54,900
TOTAL TANGIBLES		179,000	943,000	1,122,000
TOTAL WELL COSTS		2,064,000	3,565,000	5,629,000

COG Operating LLC

We approve:
% Working Interest

Company:

By:

Printed Name:

Title:

Date:

Date Prepared: 6/26/2014

COG Operating LLC

By: TIM SMITH

BEFORE THE OIL CONSERVATION DIVISION

Santa Fe, New Mexico

Exhibit No. 13

Submitted by: COG OPERATING LLC

Hearing Date: July 24, 2014

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