

**COG OPERATING LLC
AUTHORITY FOR EXPENDITURE
DRILLING**

WELL NAME: **GOLDFINGER 17 FED COM #4H** PROSPECT NAME: **BULLDOG2432**
 SHL: **190 FSL & 660 FEL** STATE & COUNTY: **New Mexico, Lea**
 BHL: **330 FNL & 660 FEL** OBJECTIVE: **DRILL AND COMPLETE**
 FORMATION: **BRUSHY** DEPTH: **13,105**
 LEGAL: **17-24S-32E** TVD: **8,505**

INTANGIBLE COSTS

	BCP	ACP	TOTAL
Title/Curative/Permit	11,000		11,000
Insurance	5,000		5,000
Damages/Right of Way	15,000		15,000
Survey/Stake Location	7,000		7,000
Location/Pits/Road Expense	100,000	25,000	125,000
Drilling / Completion Overhead	7,000		7,000
Turnkey Contract	0		0
Footage Contract	0		0
Daywork Contract	385,000		385,000
Directional Drilling Services	178,000		178,000
Fuel & Power	85,000	10,000	95,000
Water	70,000	175,000	245,000
Bits	78,000	4,500	82,500
Mud & Chemicals	65,000		65,000
Drill Stem Test	0		0
Coring & Analysis	0		0
Cement Surface	35,000		35,000
Cement Intermediate	55,000		55,000
Cement 2nd Intermediate/Production	0	100,000	100,000
Cement Squeeze & Other (Kickoff Plug)	0		0
Float Equipment & Centralizers	15,000	15,000	30,000
Casing Crews & Equipment	20,000	20,000	40,000
Fishing Tools & Service	0		0
Geologic/Engineering	0		0
Contract Labor	15,000	125,000	140,000
Company Supervision	0		0
Contract Supervision	41,600	50,000	91,600
Testing Casing/Tubing	7,000		7,000
Mud Logging Unit	21,000		21,000
Logging	75,000	10,000	85,000
Perforating/Wireline Services	5,000	120,000	125,000
Stimulation/Treating	0	1,400,000	1,400,000
Completion Unit	0	50,000	50,000
Swabbing Unit	0		0
Rentals-Surface	85,000	250,000	335,000
Rentals-Subsurface	105,000	25,000	130,000
Trucking/Forklift/Rig Mobilization	125,000	25,000	150,000
Welding Services	5,000	17,500	22,500
Water Disposal	0	150,000	150,000
Plug to Abandon	0		0
Seismic Analysis	0		0
Closed Loop & Environmental	180,000	10,000	190,000
Miscellaneous	0		0
Contingency	90,400	50,000	140,400
TOTAL INTANGIBLES	1,885,000	2,622,000	4,507,000

TANGIBLE COSTS

Surface Casing	39,000		39,000
Intermediate Casing	116,000		116,000
Production Casing	0	208,000	208,000
Tubing	0	44,000	44,000
Wellhead Equipment	15,000	35,000	50,000
Pumping Unit	0	115,000	115,000
Prime Mover	0	20,000	20,000
Rods	0	40,000	40,000
Pumps	0	37,000	37,000
Tanks	0	75,000	75,000
Flowlines	0	70,000	70,000
Heater Treater/Separator	0	65,000	65,000
Electrical System	0	0	0
Packers/Anchors/Hangers	0	10,000	10,000
Couplings/Fittings/Valves	0	170,000	170,000
Gas Compressors/Meters	0	8,100	8,100
Dehydrator	0	0	0
Injection Plant/CO2 Equipment	0	0	0
Miscellaneous	0	0	0
Contingency	0,000	45,900	45,900
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: 4/16/2014

COG Operating LLC

By: Tim Smith

BEFORE THE OIL CONSERVATION DIVISION

Santa Fe, New Mexico

Exhibit No. 15

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.