

**COG OPERATING LLC
AUTHORITY FOR EXPENDITURE
DRILLING**

WELL NAME: Viking Helmet State Corn 2H	PROSPECT NAME: Bulldog 717008
SHL: 180' FNL/1880' FEL	STATE & COUNTY: New Mexico, Lea
BHL: 2310' FNL/1880' FEL	OBJECTIVE: Drill and Complete
FORMATION: Bone Spring	DEPTH: 19,600 +PH 12,750
LEGAL: 29: W/2 E/2 & 32: W/2 NE/4 - T24S-R35E	TVD: 12,478

INTANGIBLE COSTS		BCP	ACP	TOTAL
Title/Curtain/Permit	201	11,000		11,000
Insurance	202	4,000	302	4,000
Damages/Right of Way	203	5,000	303	5,000
Survey/Stake Location	204	7,000	304	7,000
Location/Pits/Road Expense	205	80,000	305	105,000
Drilling / Completion Overhead	206	6,000	306	6,000
Turnkey Contract	207	0	307	0
Footage Contract	208	0	308	0
Daywork Contract	209	1,190,000	309	1,190,000
Directional Drilling Services	210	239,000	310	239,000
Fuel & Power	211	138,000	311	148,000
Water	212	54,000	312	780,000
Bits	213	82,000	313	91,000
Mud & Chemicals	214	175,000	314	200,000
Drill Stem Test	215	0	315	0
Coring & Analysis	216	30,000		30,000
Cement Surface	217	20,000		20,000
Cement Intermediate	218	40,000		40,000
Cement 2nd Intermediate/Production	218	80,000	318	215,000
Cement Squeeze & Other (Kickoff Plug)	220	45,000	320	45,000
Fluid Equipment & Centralizers	221	10,000	321	35,000
Casing Crews & Equipment	222	30,000	322	54,000
Fishing Tools & Service	223	0	323	0
Geologic/Engineering	224	0	324	0
Contract Labor	225	8,000	325	208,000
Company Supervision	226	0	326	0
Contract Supervision	227	159,000	327	229,000
Testing Casing/Tubing	228	10,000	328	20,000
Mud Logging Unit	229	54,000	329	54,000
Logging	230	250,000	330	250,000
Perforating/Wireline Services	231	8,000	331	350,000
Stimulation/Treating		0	332	4,800,000
Completion Unit		0	333	125,000
Swabbing Unit		0	334	0
Rentals-Surface	235	180,000	335	455,000
Rentals-Subsurface	236	235,000	336	290,000
Trucking/Forklift/Rig Mobilization	237	125,000	337	150,000
Welding Services	238	4,000	338	9,000
Water Disposal	239	0	339	473,000
Plug to Abandon	240	0	340	0
Seismic Analysis	241	0	341	0
Closed Loop & Environmental	244	160,000	344	165,000
Miscellaneous	242	0	342	0
Contingency	243	89,000	343	119,000
TOTAL INTANGIBLES		3,511,600	7,422,000	10,933,000

TANGIBLE COSTS				
Surface Casing	401	16,000		16,000
Intermediate Casing	402	479,000	503	479,000
Production Casing		0	503	207,000
Tubing		0	504	65,000
Wellhead Equipment	405	30,000	505	45,000
Pumping Unit		0	506	103,500
Prime Mover		0	507	0
Rods		0	508	55,000
Pumps		0	509	38,000
Tanks		0	510	90,000
Flowlines		0	511	27,000
Heater Treater/Separator		0	512	54,000
Electrical System		0	513	36,000
Packers/Anchors/Hangers	414	0	514	9,000
Couplings/Fittings/Valves	415	0	515	135,000
Gas Compressors/Meters		0	516	7,290
Dehydrator		0	517	0
Injection Plant/CO2 Equipment		0	518	0
Miscellaneous	419	0	519	0
Contingency	420	0	520	50,000
TOTAL TANGIBLES		525,000	889,790	1,414,790
TOTAL WELL COSTS		4,036,600	8,311,790	12,347,790

COG Operating LLC

We approve:
_____% Working Interest

Company: Chevron U.S.A., Inc.
By: _____

Printed Name:
Title:
Date:

Date Prepared: 5/20/15

COG Operating LLC

By: Travis Newman

BEFORE THE OIL CONSERVATION DIVISION

Santa Fe, New Mexico

Case Nos. 15373 & 15374 Exhibit 3a

Submitted by: COG OPERATING LLC

Hearing Date: September 17, 2015

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

Marian Higgins-Oliver

From: trackingupdates@fedex.com
Sent: Thursday, July 23, 2015 8:12 AM
To: Becky Zindel
Subject: FedEx Shipment 774112333177 Delivered

Your package has been delivered

Tracking # 774112333177

Ship date:
Wed, 7/22/15

Mike Wallace

COG Operating LLC
Midland, TX 79701
US

Delivery date:
Thu, 7/23/15 9:04 am

ATTN: Jason Levine

Chevron USA, Inc
1400 Smith St Mid-Continent
Business Unit
HOUSTON, TX 77002
US



Shipment Facts

Our records indicate that the following package has been delivered.

Tracking number:	<u>774112333177</u>
Status:	Delivered: 07/23/2015 09:04 AM Signed for By: J.CLOUD
Signed for by:	J.CLOUD
Delivery location:	HOUSTON, TX
Delivered to:	Shipping/Receiving
Service type:	FedEx Priority Overnight
Packaging type:	FedEx Envelope
Number of pieces:	1
Weight:	2.00 lb.
Special handling/Services:	Deliver Weekday

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All weights are estimated.

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Thank you for your business.

Marian Higgins-Oliver

From: trackingupdates@fedex.com
Sent: Thursday, July 23, 2015 3:56 PM
To: Becky Zindel
Subject: FedEx Shipment 774112098187 Delivered

Your package has been delivered

Tracking # 774112098187

Ship date:
Wed, 7/22/15

Mike Wallace
COG Operating LLC
Midland, TX 79701
US

Delivery date:
Thu, 7/23/15 3:50 pm


Katherine Ross Madera
Sharbutt
408 Bosque
TULAROSA, NM 88352
US



Shipment Facts

Our records indicate that the following package has been delivered.

Tracking number:	<u>774112098187</u>
Status:	Delivered: 07/23/2015 3:50 PM Signed for By: Signature not required
Signed for by:	Signature not required
Delivery location:	TULAROSA, NM
Delivered to:	Residence
Service type:	FedEx Priority Overnight
Packaging type:	FedEx Envelope
Number of pieces:	1
Weight:	0.50 lb.
Special handling/Services:	Deliver Weekday Residential Delivery

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Thank you for your business.