COG OPERATING LLC

Rock Jelly Fed Com 701H, 702H, 703H, 704H,& 705H

Section 3, 10, & 15 - T26S-29E

Eddy County, New Mexico





STATE OF NEW MEXICO DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES OIL CONSERVATION DIVISION

APPLICATION OF COG OPERATING LLC FOR COMPULSORY POOLING, EDDY COUNTY, NEW MEXICO.

CASE NO. 21344

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STATE OF NEW MEXICO DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES OIL CONSERVATION DIVISION

APPLICATION OF COG OPERATING LLC FOR COMPULSORY POOLING, EDDY COUNTY, NEW MEXICO

CASE NO. _____

<u>APPLICATION</u>

COG OPERATING LLC ("COG"), through its undersigned attorneys, hereby files this application with the Oil Conservation Division pursuant to the provisions of N.M. Stat. Ann. § 70-2-17, for an order pooling all uncommitted interests in the Wolfcamp formation, Purple Sage; Wolfcamp Pool (Pool code 98220), underlying a standard 1920-acre, more or less, horizontal spacing unit comprised of all of Sections 3, 10, and 15, Township 26 South, Range 29 East, NMPM, Eddy County, New Mexico. In support of its application, COG states:

1. COG (OGRID Number 229137) is a working interest owner in the proposed horizontal spacing unit and has the right to drill thereon.

2. COG proposes to dedicate the above-referenced horizontal spacing unit to the following proposed initial wells, which it proposes to drill simultaneously:

- The Rock Jelly Fed Com 701H well to be horizontally drilled from a surface hole location in the NE/4NE/4 (Unit A) of Section 3 to a bottom hole location in the SE/4SE/4 (Unit P) of Section 15,
- The Rock Jelly Fed Com 702H well to be horizontally drilled from a surface hole location in the NE/4NE/4 (Unit A) of Section 3 to a bottom hole location in the SW/4SE/4 (Unit O) of Section 15,

- The Rock Jelly Fed Com 703H well to be horizontally drilled from a surface hole location in the NE/4NW/4 (Unit C) of Section 3 to a bottom hole location in the SE/4SW/4 (Unit N) of Section 15,
- The Rock Jelly Fed Com 704H well to be horizontally drilled from a surface hole location in the NE/4NW/4 (Unit C) of Section 3 to a bottom hole location in the SE/4SW/4 (Unit N) of Section 15,
- The Rock Jelly Fed Com 705H well to be horizontally drilled from a surface hole location in the NE/4NW/4 (Unit C) of Section 3 to a bottom hole location in the SW/4SW/4 (Unit M) of Section 15,

The completed interval for the proposed **Rock Jelly Fed Com 703H** will be within 330' of the line separating the W/2E/2 and the E/2W/2 of Sections 3, 10, and 15, which allows inclusion of this acreage into a standard 1920-acre, more or less, horizontal spacing unit.

3. Because the proposed wells will be simultaneously drilled and completed, COG requests an extension of the 120-day period to drill and complete a well provided by the standard pooling order.

4. COG has sought and been unable to obtain voluntary agreement for the development of these lands from all the working interest owners in the subject spacing unit.

5. The pooling of interests will avoid the drilling of unnecessary wells, will prevent waste, and will protect correlative rights.

6. In order to permit COG to obtain its just and fair share of the oil and gas underlying the subject lands, all uncommitted interests in the subject spacing unit should be pooled and COG should be designated the operator of the proposed horizontal wells and spacing unit.

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WHEREFORE, COG requests that this application be set for hearing before an Examiner of the Oil Conservation Division on July 9, 2020 and, after notice and hearing as required by law, the Division enter an order:

- A. Pooling all uncommitted interests in the horizontal spacing unit;
- B. Approving the initial wells in the horizontal spacing unit;
- C. Providing an extension of the 120-days requirement to drill and complete a well;
- D. Designating COG as operator of this spacing unit and the wells to be drilled thereon;
- E. Authorizing COG to recover its costs of drilling, equipping and completing the wells;
- F. Approving the actual operating charges and costs of supervision while drilling and after completion, together with a provision adjusting the rates pursuant to the COPAS accounting procedures; and
- G. Imposing a 200% penalty for the risk assumed by COG in drilling and completing the wells against any working interest owner who does not voluntarily participate in the drilling of the well.

Respectfully submitted,

COG OPERATING LLC

Ocean Munds-Dry Michael Rodriguez COG Operating LLC 1048 Paseo de Peralta Santa Fe, New Mexico 87501 (505) 780-8000 omundsdry@concho.com mrodriguez@concho.com

ATTORNEYS FOR COG OPERATING LLC

- CASE _____: Application of COG Operating LLC for compulsory pooling, Eddy County, New Mexico. Applicant in the above-styled cause seeks an order from the division pooling all uncommitted interest owners in the Wolfcamp formation underlying a standard 1920-acre, more or less, horizontal spacing unit comprised of all of Sections 3, 10, and 15, Township 26 South, Range 29 East, NMPM, Eddy County, New Mexico. COG Operating LLC seeks to dedicate the above-referenced horizontal spacing unit to the following proposed wells:
 - The Rock Jelly Fed Com 701H well to be horizontally drilled from a surface hole location in the NE/4NE/4 (Unit A) of Section 3 to a bottom hole location in the SE/4SE/4 (Unit P) of Section 15,
 - The Rock Jelly Fed Com 702H well to be horizontally drilled from a surface hole location in the NE/4NE/4 (Unit A) of Section 3 to a bottom hole location in the SW/4SE/4 (Unit O) of Section 15,
 - The Rock Jelly Fed Com 703H well to be horizontally drilled from a surface hole location in the NE/4NW/4 (Unit C) of Section 3 to a bottom hole location in the SE/4SW/4 (Unit N) of Section 15
 - The Rock Jelly Fed Com 704H well to be horizontally drilled from a surface hole location in the NE/4NW/4 (Unit C) of Section 3 to a bottom hole location in the SE/4SW/4 (Unit N) of Section 15,
 - The Rock Jelly Fed Com 705H well to be horizontally drilled from a surface hole location in the NE/4NW/4 (Unit C) of Section 3 to a bottom hole location in the SW/4SW/4 (Unit M) of Section 15.

The completed interval for the proposed **Rock Jelly Fed Com 703H** will be within 330' of the line separating the W/2E/2 and the E/2W/2 of Sections 3, 10, and 15, which allows inclusion of this acreage into a standard 1920-acre, more or less, horizontal spacing unit. Also, to be considered will be the timing of the drilling and completing of said wells, the allocation of the cost thereof, the actual operating costs and charges for supervision, the designation of COG Operating LLC as operator of the wells, and the imposition of 200% charge for risk involved in drilling and completing said wells. Said area is located approximately 12 miles southeast of Malaga, New Mexico.

STATE OF NEW MEXICO DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES OIL CONSERVATION DIVISION

APPLICATION OF COG OPERATING LLC FOR COMPULSORY POOLING, EDDY COUNTY, NEW MEXICO

CASE NO. 21344

VERIFIED STATEMENT OF HUNTER HALL

Hunter Hall, being duly sworn upon his oath, deposes and states:

1. My name is Hunter Hall. I have been a landman with COG Operating LLC ("COG") since 2018. I have personal knowledge of the matters stated herein and am familiar with the statutes of the lands that are the subject of this application.

2. I have previously testified before the New Mexico Oil Conservation Division ("Division") where my credentials as a petroleum landman were accepted and made a matter of record.

3. In this application, COG seeks an order pooling all uncommitted interests in the Wolfcamp formation, Purple Sage; Wolfcamp Pool (Pool code 98220), underlying a standard 1920-acre, more or less, horizontal spacing unit comprised of all of Sections 3, 10, and 15, Township 26 South, Range 29 East, NMPM, Eddy County, New Mexico.

4. COG proposes to dedicate the above-referenced horizontal spacing unit to the following proposed initial wells, which it proposes to drill simultaneously:

- (a) The Rock Jelly Fed Com 701H well to be horizontally drilled from a surface hole location in the NE/4NE/4 (Unit A) of Section 3 to a bottom hole location in the SE/4SE/4 (Unit P) of Section 15,
- (b) The Rock Jelly Fed Com 702H well to be horizontally drilled from a surface hole location in the NE/4NE/4 (Unit A) of Section 3 to a bottom hole location in the SW/4SE/4 (Unit O) of Section 15,
- (c) The Rock Jelly Fed Com 703H well to be horizontally drilled from a surface hole location in the NE/4NW/4 (Unit C) of Section 3 to a bottom hole location in the SE/4SW/4 (Unit N) of Section 15,
- (d) The Rock Jelly Fed Com 704H well to be horizontally drilled from a surface hole location in the NE/4NW/4 (Unit C) of Section 3 to a bottom hole location in the SE/4SW/4 (Unit N) of Section 15,

BEFORE THE OIL CONSERVATION DIVISION Santa Fe, New Mexico Case No. 21344 Exhibit No. A Submitted by: COG OPERATING LLC Hearing Date: October 22, 2020 (e) The Rock Jelly Fed Com 705H well to be horizontally drilled from a surface hole location in the NE/4NW/4 (Unit C) of Section 3 to a bottom hole location in the SW/4SW/4 (Unit M) of Section 15,

5. The completed interval for the proposed Rock Jelly Fed Com 703H will be within 330' of the line separating the W/2E/2 and the E/2W/2 of Sections 3, 10, and 15, which allows inclusion of this acreage into a standard 1920-acre, more or less, horizontal spacing unit.

6. The proposed wells will comply with all Statewide setback requirements.

7. COG Exhibit No. A-1 contains draft Form C-102s for the proposed wells.

8. Federal APDs for the proposed wells were approved on October 8, 2020.

9. **COG Exhibit No. A-2** depicts the tracts of land comprising the proposed spacing unit in this case. The proposed spacing unit includes federal lands. It also identifies the interest ownership and interest type by tract. COG seeks to pool all uncommitted interests identified in this attachment.

10. COG owns roughly 92% of the working interest in the proposed spacing unit. COG Exhibit No. A-2.

11. As indicated in **COG Exhibit No. A-2**, COG owns 100% of the working interest in Tract 7, which encompasses all of Section 15. In its compulsory pooling application, WPX Energy Permian, LLC ("WPX") seeks to pool the W/2 of Section 15 into its proposed spacing unit where it owns 0% of the working interest.

12. No ownership depth severances exist within this proposed spacing unit, and there are no unleased mineral interests in the subject acreage.

13. All interest owners that COG seeks to pool are locatable. COG has conducted a diligent search of all public records in Eddy County, including phone directories and computer databases.

14. **COG Exhibit No. A-3** contains a sample well proposal letter and AFEs for each well provided to the working interest owners COG is seeking to pool. The costs reflected on each AFE are consistent with what other operators have incurred for drilling similar horizontal wells in the area.

15. In my opinion, COG has made good-faith efforts to reach agreement with the nonjoined parties as indicated by the following <u>Chronology of Contact</u>:

- (a) 4/22/2020 Well proposals, AFEs, and COG's proposed form of JOA was sent to all uncommitted working interest owners.
- (b) 3Q/4Q 2020 Present Ongoing email/phone communication with XTO Holdings LLC regarding the planned development, proposed OA, and their interest in the unit.

- (c) 3Q/4Q 2020 Present Ongoing email/phone communication with WPX Energy Permian regarding the planned development, proposed OA, potential trade possibilities and their interest within the unit.
 - i. 3/11/2020 WPX Notification to COG that WPX did not support the proposed development plan.
 - ii. 3/11/2020 9/22/2020: Ongoing dispute resolution discussions. Multiple trade scenarios discussed but parties could not come to terms.

16. COG continues to work with the parties to obtain voluntary joinder within the proposed spacing unit and will continue to do so in good faith. If COG reaches an agreement with any of the parties it is seeking to pool before the Division enters an order, I will inform the Division that COG is no longer seeking to pool those parties.

17. COG has estimated the overhead and administrative costs for drilling and producing the proposed wells at \$8,000 per month while drilling and \$800 per month while producing. These costs are consistent with what other operators are charging in this area for similar wells.

18. I have provided COG's legal counsel a list of names and addresses of the owners COG seeks to pool and instructed that they be notified of this hearing. Additionally, notice of this hearing was timely published in a newspaper of general circulation in Eddy County, New Mexico.

19. In my opinion, Granting COG's applications and denying WPX's application is in the best interest of conservation, will prevent waste, and protect correlative rights.

20. COG Exhibit Nos. A-1 through A-3 were either prepared by me or compiled under my direction and supervision.

Hunter Hall

VERIFICATION

))ss.

STATE OF TEXAS

COUNTY OF MIDLAND

Hunter Hall, being duly sworn upon his oath, deposes and states that: He is a landman for COG Operating LLC; he is authorized to make this verification on its behalf; he has read the foregoing statement, and knows the contents thereof; and the same is true and correct to the best of his knowledge, information, and belief.

Hunter Hall

SUBSCRIBED and SWORN to before me this 13th day of October 2000by

My Commission Expires:

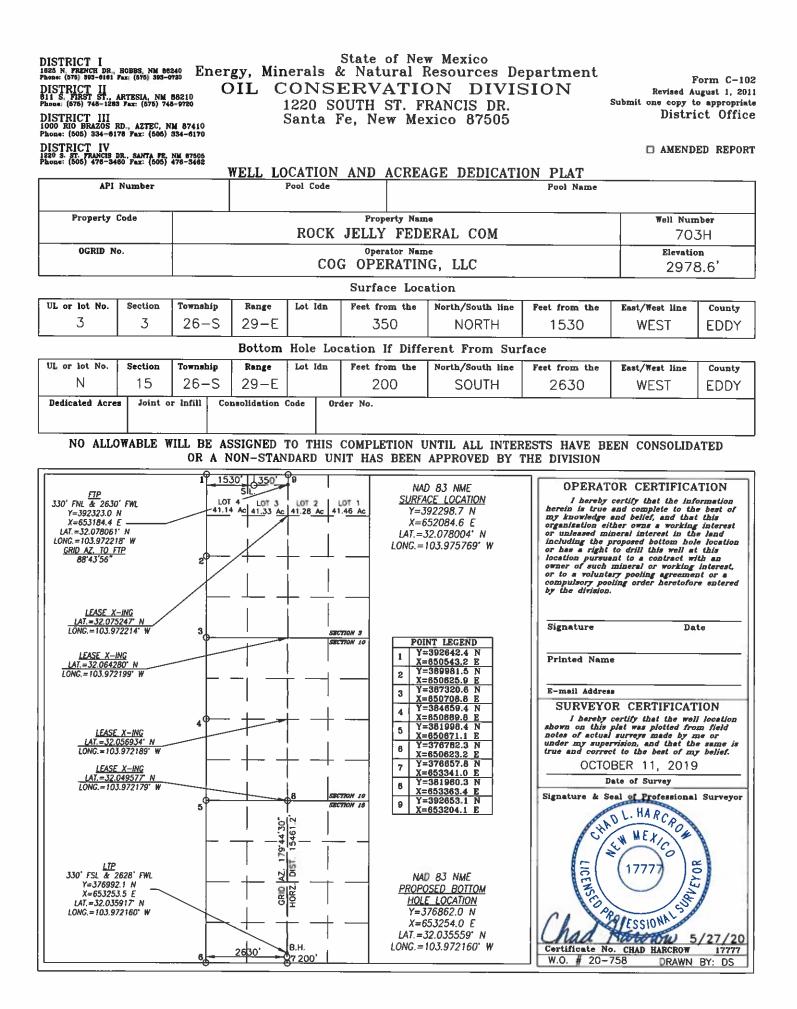
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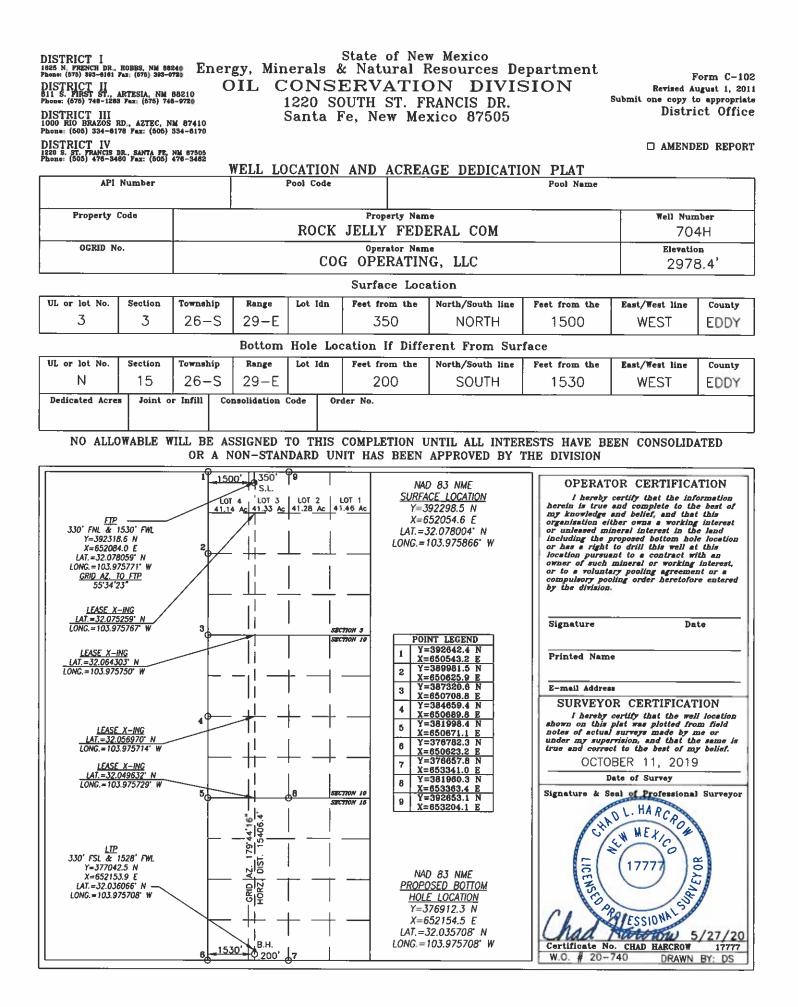


NOTARY PUBLIC

DISTRICT I 1625 N. PRENCE DR., HOBBS, NM 68: Phone: (575) 393-0161 Fax: (575) 393-0 DISTRICT II 011 S. PREST ST., ARTESIA. NM . Phone: (575) 740-1283 Fax: (575) 744 DISTRICT III 1000 RIO BRAZOS RD., AZTEC, N Phone: (505) 334-0179 Fax: (505)	B6210 B-9720 M 87410	IL CO	erals 8 ONSI 220 SC		Resources De DN DIVIS RANCIS DR.	SION	Revised Au Submit one copy to	form C-102 agust 1, 2011 o appropriate ct Office
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API Number	<u> </u>		ool Code		di Dibiorit	Pool Name		
Property Code			ROCK	Property Nam JELLY FEDI			Well Num 70	
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UL or lot No. Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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DISTRICT I 1825 N. FRENCH DR., HOBES Phone: (07) 330-6131 Pat: (6 DISTRICT II 811 S. FIRST ST., ARTES Phone: (676) 746-1263 Pat: DISTRICT III 1000 RIO BRAZOS RD., A Phone: (606) 334-6176 Pat	SIA, NM 88 (576) 748-1 AZTEC, NM	210 9720 87410	DIL C	ONS:	& Natu ERVA OUTH	iral R ATIC ST. FI	v Mexico Resources De ON DIVIS RANCIS DR. Rico 87505	SION	Revised Au ubmit one copy t	form C-102 agust 1, 2011 o appropriate ct Office
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DISTRICT I 1625 N. PRENCH DR., PROME: (676) 360-0161 DISTRICT II 011 S. PIRST ST., Phone: (676) 746-1285 DISTRICT III 1000 RIO BRAZOS F Phone: (505) 334-61' DISTRICT IV 1820 S. ST. FRANCIS I Phone: (505) 476-34'	ARTESIA, NM 5 Fax: (575) 74 RD., AZTEC, N 76 Fax: (505)	88210 8-9720 IM 87410 334-6170	DIL C	erals & ONSI 1220 SC	k Natu ERV DUTH	ural F ATIC ST. FI	v Mexico Resources De ON DIVIS RANCIS DR. Rico 87505	SION	Revised A Submit one copy t Distri	Form C-102 ugust 1, 2011 o appropriate ct Office ED REPORT
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3-265-R29E	3-265-R29E Tract	1	
Proposed Rock Jelly 1920 Ac. Unit	Tract	2	Tract 3
10-265-R29E	10-265-R29 Tract		Tract 5
Proposed Rock Jelly 1920 Ac. Unit	Tract 5		Tract 6
15-265-R29E Proposed Rock Jelly 1920 Ac. Unit	15-265-R296	Tract	7

LEASEHOLD OWNER	Tract 1 - 80 ac	Tract 2 - 400 ac	Tract 3 - 160 ac	Tract 4 - 160 ac NM 92177	Tract 5 - 740 ac NM 54291	Tract 6 - 240 ac	Tract 7 - 640 ac NM 44532
COG Operating LLC	0.0000%	95.0000%	\$3.0688%	95.6250%	96,2500%	55.8750%	100.00009
Concho Oil & Gas LLC	0.0000%	5.0000%					the second se
COG Production LLC			0.0000%	4.3750%	3.7500%	0.1250%	0.0000%
	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	40.5481%	0.0000%
COG Acreage LP	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	3.4519%	0.0000%
XTO Holdings LLC	100.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%
WPX Energy Permian, LLC	0.0000%	0.0000%	46.9313%	0.000%	0.0000%	0.0000%	0.0000%
SUM	100.0000%	100.0000%	100.0001%	100.0000%	100.0000%	100.0000%	100.000%
RECORD TITLE & OVERRIDING	Tract 1 - 80 ac	Tract 2 - 400 ac	Tract 3 - 160 ac	Tract 4 - 160 ac	Tract 5 - 240 ac	Tract 6 - 240 ac	Tract 7 - 640 ac
ROYALTY INTEREST OWNER	NMNM 138834	NMNM 96849	NM 13997	NM 92177	NM 54291	NM 58809	NM 44532
XTO Holdings LLC	RT	Part and the state of the	CARGE STREET, STREET, ST	STATE STORE STATES	Colorest Presson	0.0.0.000.000.0	ORRI
COG Operating LLC	18、赤田20世纪世界中国	RT	A Provect spinster	A Low Merry Market States	RT	The Contraction of the	ALAS MALES
Concho Oil & Gas LLC	1.0000000000000000000000000000000000000	RT	1. 10 1	AS PROVIDENT	RT	Sec. Sales	的复数美国军委员
El Paso Natural Gas Co / Burlington Resources Oil & Gas Co			RT				
WPX Energy Permian LLC	WITH DELYMPHONY CONTRACT	State State State	RT / ORRI	Contraction of the second second	CONTRACTOR DIS	ORRI	A CONTRACTOR OF A
OXY USA Inc.	45834570535034709	2010/02/2010/02/2010	Constitution of the Avia	RT	S. M. Barrison and S. M.	8T	a second second
EOG Resources Inc.	Sobdianter attante	Contraction of the second second second	and design all a market the		COLUMN COLUMN	Contraction of the Contraction	RT
Nestegg Energy Corporation	OCTOBER AND ADDRESS.	ORRI	CRAT STATE DESCRIPTION OF	ORRI	Color In all them are shown	General Street and Street	-
F. Andrew Grooms, Trustee of the F. Andrews Grooms SSP Trust UAD 3.24.14					ORRI		
Eileen M. Grooms, Trustee of the EMG Rev Trust UAD 11.1.04					ORRI		
Nuevo Seis, LP	and the second second	and the second second	Loterk states in	HIT SHE STORE STORE	ORRI	14 10 10 10 10 10 10 10 10 10 10 10 10 10	
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Danielle Hannifin	A CONTRACTOR OF A CONTRACT	STAR AND STAR	STATISTICS AND DESCRIPTION	Contraction of the second	ORRI	CONTRACTOR AND AND	or is instantion
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Schertz	and the second	Sale Call			ORRI		
AFC Partnership	CALL CONTRACTOR OF CONTRACT	AASS CONTRACTOR	Strand States States	SCHOOL SCHOOLSERING	Constant and the second second	ORRI	ORRI

PARTIES TO POOL

PARTIES TO FOOL			
	El Paso Natural Gas Co	Nestegg Energy Corporation	Nuevo Seis, LP
	1001 Louisiana St	2308 Sierra Vista Road	PO Box 2588
	Houston, TX 77002	Artesia, NM 88210	Roswell, NM 88202
WPX Energy Permian, LLC	Burlington Resources Oil & Gas Co	F. Andrews Grooms, Trustee	Wing Resources III, LLC
3500 One Williams Center, MD 35	925 N. Eldridge Pkwy SP2 07-E236	PO Box 2990	2100 McKinney Ave, Suite 1540
Tulsa, OK 74103	Houston, TX 77079	Ruidoso, NM 88355	Dallas, TX 75201
EOG Resources Inc.	OXY USA Inc.	Eileen M. Grooms, Trustee	Danielle Hannifin
5509 Champions Dr	5 Greenway Plaza, Suite 110	1000 W. Fourth Street	PO Box 182
Midland, TX 79706	Houston, TX 77046	Roswell, NM 88201	Roswell, NM 88202
Morris E. Schertz & wife	AFC Partnership		2000
PO Box 2588	12701 Treeridge Terrace		
Roswell, NM 88202	Poway, CA 92064		

Unit Recapitulation	WI	NRI	Committed Party?
COG Operating LLC	86.36510417%	74.17084558%	Yes
Concho Oll & Gas LLC	1.89062500%	1.63515625%	Yes
COG Production LLC	3.37900858%	2.53425642%	Yes
COG Acreage LP	0.28765808%	0.21574358%	Yes
XTO Holdings LLC	4.16666667%	3.645833333%	Yes
WPX Energy Permian	3.91093750%	3.49503983%	No
SUM	100.0000000%	85.69687500%	
COMMITTED WORKING INTEREST PERCENTAGE	96.08906250%		-
UNIGRMANDER AURICENTRE RESIDERCENTAGE.	3.91093750%		
SUM	100.0000000%		

ORRI ORRI BEFORE THE OIL CONSERVATION DIVISION Santa Fe, New Mexico Case No. 21344 Exhibit No. A-2 Submitted by: <u>COG OPERATING LLC</u> Hearing Date: <u>October 22, 2020</u>



April 22, 2020

Via CMRRR No. 91 7199 9991 8029 5489 And electronic mail to tanner.tepe@wpxenergy.com WPX Energy Permian, LLC 3500 One Williams Center, MD 35 Tulsa, OK 74103 Attn: Land Manager

Re: Rock Jelly Fed Com 701H-705H Sections 3, 10 & 15, T26S-R29E Eddy County, New Mexico BEFORE THE OIL CONSERVATION DIVISION Santa Fe, New Mexico Case No. 21344 Exhibit No. A-3 Submitted by: <u>COG OPERATING LLC</u> Hearing Date: October 22, 2020

Dear Sir or Madam:

COG Operating, LLC ("COG"), as Operator, hereby proposes the drilling of the following horizontal wells with productive laterals located in All of Sections 3, 10 & 15, Township 26 South, Range 29 East, Eddy County, New Mexico (collectively, the "Operation"). The surface pad locations will be located in Units A and C of Section 3, T26S-R29E (subject to change).

- Rock Jelly Fed Com 701H, to be drilled to a depth sufficient to test the Wolfcamp A formation at a total vertical depth of 10,100'. The surface hole location for this well is proposed at a legal location in Unit A of Section 3 and the bottomhole location in a legal location in Unit P of Section 15. The dedicated project area will be All of Sections 3, 10 & 15, T26S-R29E, Eddy County, New Mexico. The total estimated cost to drill and complete said well is \$13,545,000.00, as shown on the attached Authority for Expenditure ("AFE").
- Rock Jelly Fed Com 702H, to be drilled to a depth sufficient to test the Wolfcamp A formation at a total vertical depth of 10,100'. The surface hole location for this well is proposed at a legal location in Unit A of Section 3 and the bottomhole location in a legal location in Unit O of Section 15. The dedicated project area will be All of Sections 3, 10 & 15, T26S-R29E, Eddy County, New Mexico. The total estimated cost to drill and complete said well is \$13,545,000.00, as shown on the attached AFE.
- Rock Jelly Fed Com 703H, to be drilled to a depth sufficient to test the Wolfcamp A formation at a total vertical depth of 10,100'. The surface hole location for this well is proposed at a legal location in Unit C of Section 3 and the bottomhole location in a legal location in Unit N of Section 15. The dedicated project area will be All of Sections 3, 10 & 15, T26S-R29E, Eddy County, New Mexico. The total estimated cost to drill and complete said well is \$13,545,000.00, as shown on the attached AFE.
- Rock Jelly Fed Com 704H, to be drilled to a depth sufficient to test the Wolfcamp A formation at a total vertical depth of 10,100'. The surface hole location for this well is proposed at a legal location in Unit C of Section 3 and the bottomhole location in a legal location in Unit N of Section 15. The dedicated project area will be All of Sections 3, 10 & 15, T26S-R29E, Eddy County, New Mexico. The total estimated cost to drill and complete said well is \$13,545,000.00, as shown on the attached AFE.

April 22, 2020 - Page 2 Well Proposals Rock Jelly Fed Com Unit, 3, 10 & 15, 26S-29E

• Rock Jelly Fed Com 705H, to be drilled to a depth sufficient to test the Wolfcamp A formation at a total vertical depth of 10,100'. The surface hole location for this well is proposed at a legal location in Unit C of Section 3 and the bottomhole location in a legal location in Unit M of Section 15. The dedicated project area will be All of Sections 3, 10 & 15, T26S-R29E, Eddy County, New Mexico. The total estimated cost to drill and complete said well is \$13,545,000.00, as shown on the attached AFE.

COG is proposing these wells under the terms of a new Operating Agreement which is included electronically herewith, covering All of Sections 3, 10, and 15, T26S-R29E, Eddy County, New Mexico, as to the Wolfcamp formation. It includes the following general provisions:

- 100/300/300 Non-Consent Penalties;
- \$800/\$8000 Drilling and Producing Rate; and
- COG Operating LLC named as Operator.

Due to our offices working remotely for the time being, I have not mailed a physical copy of the OA to your office at this time. Please review the attached electronic version and email a copy to my attention upon approval. Eventually, we will need an original signature on the Memorandum for recording purposes, but will follow up with you at a later date. If you would like a physical copy of the OA mailed to you, please let me know.

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

Please indicate your participation elections in the space provided below, sign and return this letter, along with a signed copy of the enclosed AFEs and a copy of your geologic requirements, to my attention at the letterhead address or by email to hhall@concho.com. Should you have any questions, please do not hesitate to contact me at 806.782.2341.

Sincerely,

COG Operating LLC

Hunter Hall

Hunter Hall Landman

HH:bh Enc April 22, 2020 - Page 2 Well Proposals Rock Jelly Fed Com Unit, 3, 10 & 15, 26S-29E

Please make your election below:

WELL NAME	Elect to PARTICIPATE in drilling and completion	Elect NOT TO PARTICIPATE in drilling and completion
Rock Jelly Fed Com 701H		
Rock Jelly Fed Com 702H		
Rock Jelly Fed Com 703H		
Rock Jelly Fed Com 704H		
Rock Jelly Fed Com 705H		

WPX ENERGY PERMIAN, LLC

Name:	
Title	
Title:	
Date:	

Well Name Rock Jolly Fed Cam #705H SHL 350 FNL, 1470 FWL, OR UNIT C, 3-26S-29E BHL 200 FSL, 430 FWL, OR UNIT M, 15-26S-29E Formation WOLFCAMP A Legal 26S-29E-03 AFE Numbers

Prospect ATLAS 2829 State & County NEW MEXICO, EDDY Objective DRILL & COMPLETE Depth 25,300 TVD 10,100

Intanglèle Costs D-Lchr/Pite/Roads D-Dilling Overhead 206 D-Dilling Overhead 206 D-Dilling Overhead 206 D-Dilling Overhead 206 D-Directional Dfg Services 210 D-Fuel & Power 211 D-Water D-Blats D-Mud & Chemicals D-Mud & Chemicals D-Prot-2nd Int Cmt 218 D-Cement Intermed 218 D-Cement Intermed 218 D-Cement Intermed 218 D-Cement Intermed 218 D-Contract Labor D-Contract Labor D-Company Sprven 228 D-Contract Sprven 229 D-Contract Sprven 229 D-Contrad Sprven 229 D-Contrad Sprven 229 D-Contrad Sprven 229 D-Contrad Sprven 229 D-Contrad Sprven 229 D-Contrad Sprven 229 D-Contrad Sprven 229 D-Rentale-Subaric 230 D-Trucking/Fort&fr/Rig Mob 237 D-Wetking Services 238 D-Contingency 244 C-Wetkore Frac Prop 244 C-Wetkore Frac Prop 244 C-Wetkore Frac Prop 244 C-Frac Chemicals 308 C-Frac Proppart C-Frac Surface Rentals 310 C-Frac Surface Rentals 311 C-Frac Surface Rentals 315 C-Contract Labor 25 C-Antificial Lift Install 320 C-Antificial Lift Install 320 C-Antificial Lift Install 320 C-Antificial Labor 337 C-Antificial Labor C-Drillow 349 C-Contract Labor 351 B-Location/Pitu/Roads 351 B-Locator/Pitu/Roads 351 B-Locator/Pitu/Roads 355 PEO-Contract Labor 356 PEO-Contract Labor 356 PEO-Contract Labor 356 PEO-Contract Labor 357 D-Contract Labor 356 PEO-Contract Labor 357 D-Contract Labor 350 D-Contract Labor 350 D-Contract Labor 350 D-Contract Labor 351 D-Contract Labor 351 D-Contract Labor 352 D-Contract Labor 353 D-Contract Labor 354 D-Contract Labor 355 D-Contract Labor 355	Pre-Set Casing(P Pre-Set Casing(P	\$ 136,000.00 \$ 136,000.00 \$ 456,000.00 \$ 456,000.00 \$ 283,000.00 \$ 108,000.00 \$ 108,000.00 \$ 108,000.00 \$ 108,000.00 \$ 361,000.00 \$ 361,000.00 \$ 153,000.00 \$ 153,000.00 \$ 158,000.00 \$ 10,000.00 \$ 171,000.00 \$ 36,000.00 \$ 171,000.00 \$ 38,000.00 \$ 281,000.00 \$ 38,000.00 \$ 281,000.00 \$ 38,000.00 \$ 131,000.00 \$ 38,000.00 \$ 441,000.00 \$ 38,000.00 \$ 38,000.00 \$ 38,000.00 \$ 38,000.00 \$ 134,000.00 \$ 134,000.00	2 2 1 2 2 2 3 127,000.00 3 127,000.00 3 127,000.00 5 16,000.00 5 1464,000.00 5 12,000.00 5 1464,000.00 5 365,000.00 5 366,000.00 5 366,000.00 5 16,000.00 5 16,000.00 5 16,000.00 5 16,000.00 5 16,000.00 5 16,000.00 5 16,000.00 5 16,000.00 5 16,000.00 5 16,000.00 5 27,000.00 5 68,000.00 5 68,000.00 5 68,000.00 5 68,000.00 5 68,000.00 5 68,000.00 5 68,000.00 5 68,		Pmpg Equip (PEC	\$ - \$	Tet. \$ 136,000.00 \$ 13,000.00 \$ 963,000.00 \$ 963,000.00 \$ 963,000.00 \$ 106,000.00 \$ 106,000.00 \$ 381,000.00 \$ 381,000.00 \$ 381,000.00 \$ 381,000.00 \$ 383,000.00 \$ 936,000.00 \$ 936,000.00 \$ 936,000.00 \$ 936,000.00 \$ 936,000.00 \$ 937,000.00 \$ 936,000.00 \$ 936,000.00 \$ 936,000.00 \$ 936,000.00 \$ 930,000.00 \$ 9300.00 \$ 930,000.00 \$ 930,000.00 \$ 930,000.00 \$ 930,000.00 \$ 930,000.00 \$ 930,000.00 \$
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>Fuel & Power 211 >Water 212 >Bits 213 >Water 212 >Bits 213 >Mud & Chemicals 214 >Cement Surface 217 >Cement Infermed 218 >Prod-2nd Int Cmt 219 >Common Surface 211 >Comment Surface 211 >Comment Marran 219 >Comment Surface 211 >Company Sprvan 222 >Contract Labor 2225 >Company Sprvan 2261 >Contract Sprvan 227 >Pantals-Surface 238 >Mut Logging Unit 229 >Mand Logging Unit 229 >Amatals-Subarfac 238 >Contract Sprvan 243 >Completion OH 306 >Frac Chemicals 306 >Frac Proppant Transportation 307 >Frac Chemicals 308 >Frac Proppant Chemicals 308 >Frac Proppant Sprvan 326 Contract Borva 327 >Artificial Lift Install 320 >PerfWineline Svc 331 >Water 332 >Dyed Diseel 345 >Druckion/Pr		\$ 203,000,00 \$ 108,000,00 \$ 151,000,00 \$ 361,000,00 \$ 361,000,00 \$ 361,000,00 \$ 361,000,00 \$ 1158,000,00 \$ 158,000,00 \$ 93,000,00 \$ 10,000,00 \$ 71,000,00 \$ 71,000,00 \$ 71,000,00 \$ 365,000,00 \$ 281,000,00 \$ 38,000,00 \$ 35,000,00 \$ 35,000,000 \$ 35,000,0000 \$ 35,000,0000 \$ 35,000,0000 \$ 35,000,00000 \$ 35,0000000 \$ 35,000000000000000000000000000000000000	1 1			\$ - \$	\$ 456,000 0/ \$ 203,000,00 \$ 106,000,00 \$ 106,000,00 \$ 151,000,00 \$ 361,000,00 \$ 28,000,00 \$ 28,000,00 \$ 107,000,00 \$ 136,000,00 \$ 93,000,00 \$ 93,000,00 \$ 73,000,00 \$ 73,000,00 \$ 73,000,00 \$ 73,000,00 \$ 73,000,00 \$ 73,000,00 \$ 73,000,00 \$ 75,000,00 \$ 55,000,00 \$ 5000,00 \$ 201,000,00 \$ 201,000,00 \$ 201,000,00 \$ 23,000,00 \$ 242,000,00 \$ 242,000,00 \$ 286,000,00 \$ 286,000,00 \$ 486,0000,00
D-Water 212 D-Water 213 D-Bits 213 D-Bits 213 D-Bits 213 D-Bits 214 D-Cement Surface 217 D-Cement Intermed 218 D-Prod-2nd Int Cmt 219 D-Float Equipment & Centrakzers 221 D-Contract Labor 225 D-Contract Sprvan 226 D-Contract Sprvan 227 D-Contract Sprvan 228 D-Contract Sprvan 228 D-Contract Sprvan 227 D-Contract Sprvan 228 D-Contract Sprvan 228 D-Contract Sprvan 228 D-Contract Sprvan 228 D-Rentals-Surfaces 236 P-Rentals-Surfaces 236 D-Rentals-Surfaces 236 D-Rentals-Surfaces 236 D-Rentals-Surfaces 236 D-Rentals-Surfaces 236 D-Contract Sprvan 237 D-Watting Services 311 D-Watting Services 311 D-Frac Chernicals 308 -Frac Proppant Transportation 310 -Frac Sprvan 327 -Artifical Lfl Install 329 </td <td></td> <td>\$ 203,000,00 \$ 108,000,00 \$ 151,000,00 \$ 361,000,00 \$ 361,000,00 \$ 361,000,00 \$ 361,000,00 \$ 1158,000,00 \$ 158,000,00 \$ 93,000,00 \$ 10,000,00 \$ 71,000,00 \$ 71,000,00 \$ 71,000,00 \$ 365,000,00 \$ 281,000,00 \$ 38,000,00 \$ 35,000,00 \$ 35,000,000 \$ 35,000,0000 \$ 35,000,0000 \$ 35,000,0000 \$ 35,000,00000 \$ 35,0000000 \$ 35,000000000000000000000000000000000000</td> <td>1 1</td> <td></td> <td></td> <td>\$ - \$</td> <td>\$ 203,000,00 \$ 108,000,00 \$ 151,000,00 \$ 351,000,00 \$ 28,000,00 \$ 28,000,00 \$ 158,000,00 \$ 158,000,00 \$ 158,000,00 \$ 93,000,00 \$ 93,000,00 \$ 93,000,00 \$ 93,000,00 \$ 93,000,00 \$ 73,000,00 \$ 58,000,00 \$ 58,000,00 \$ 201,000,00 \$ 201,000,00 \$ 5,000,00 \$ 441,000,00 \$ 221,000,00 \$ 16,000,00 \$ 227,000,00 \$ 223,000,00 \$ 2441,000,00 \$ 286,000,00 \$ 286,000,00 \$ 486,000,00 \$ 486,000,00 \$ 486,000,00</td>		\$ 203,000,00 \$ 108,000,00 \$ 151,000,00 \$ 361,000,00 \$ 361,000,00 \$ 361,000,00 \$ 361,000,00 \$ 1158,000,00 \$ 158,000,00 \$ 93,000,00 \$ 10,000,00 \$ 71,000,00 \$ 71,000,00 \$ 71,000,00 \$ 365,000,00 \$ 281,000,00 \$ 38,000,00 \$ 35,000,00 \$ 35,000,000 \$ 35,000,0000 \$ 35,000,0000 \$ 35,000,0000 \$ 35,000,00000 \$ 35,0000000 \$ 35,000000000000000000000000000000000000	1 1			\$ - \$	\$ 203,000,00 \$ 108,000,00 \$ 151,000,00 \$ 351,000,00 \$ 28,000,00 \$ 28,000,00 \$ 158,000,00 \$ 158,000,00 \$ 158,000,00 \$ 93,000,00 \$ 93,000,00 \$ 93,000,00 \$ 93,000,00 \$ 93,000,00 \$ 73,000,00 \$ 58,000,00 \$ 58,000,00 \$ 201,000,00 \$ 201,000,00 \$ 5,000,00 \$ 441,000,00 \$ 221,000,00 \$ 16,000,00 \$ 227,000,00 \$ 223,000,00 \$ 2441,000,00 \$ 286,000,00 \$ 286,000,00 \$ 486,000,00 \$ 486,000,00 \$ 486,000,00
Abilis 213 Abilis 213 Abilis 214 Abilis 213 Abilis 214 Abilis 213 Abilis 214 Abilis 214 Cement Surface 217 Cement Infermed 218 Arrod-2nd Inf Cmt 219 Contract Labor 2225 Company Sprvan 2281 Contract Labor 2275 Contract Sprvan 2281 Contract Surface 235 Pantals-Subarfo 236 Contract Surface 238 Contract Surface Surface 306 Frac Chemicals 306 Frac Chemicals 307 Frac Chemicals 311 Water 312 Frac Chemicals 311 Water 326 <t< td=""><td></td><td>\$ 151,000.00 \$ 361,000.00 \$ 28,000.00 \$ 107,000.00 \$ 107,000.00 \$ 158,000.00 \$ 360,000.00 \$ 370,000.00 \$ 771,000.00 \$ 771,000.00 \$ 371,000.00 \$ 281,000.00 \$ 281,000.00 \$ 281,000.00 \$ 35,000.00 \$ 35,000.00 \$ 36,000.00 \$ 36,</td><td>1 1</td><td></td><td></td><td>\$ - \$</td></t<> <td>\$ 108,000.00 \$ 151,000.00 \$ 381,000.00 \$ 28,000.00 \$ 158,000.00 \$ 158,000.00 \$ 158,000.00 \$ 158,000.00 \$ 158,000.00 \$ 158,000.00 \$ 93,000.00 \$ 73,000.00 \$ 73,000.00 \$ 73,000.00 \$ 73,000.00 \$ 73,000.00 \$ 281,000.00 \$ 281,000.00 \$ 281,000.00 \$ 281,000.00 \$ 88,000.00 \$ 88,000.00 \$ 441,000.00 \$ 227,000.00 \$ 285,000.00 \$ 285,000.00 \$ 286,000.00 \$ 286,000.00 \$ 286,000.00 \$ 486,0000.00 \$ 16,0000.00 <tr tbody=""><</tr></td>		\$ 151,000.00 \$ 361,000.00 \$ 28,000.00 \$ 107,000.00 \$ 107,000.00 \$ 158,000.00 \$ 360,000.00 \$ 370,000.00 \$ 771,000.00 \$ 771,000.00 \$ 371,000.00 \$ 281,000.00 \$ 281,000.00 \$ 281,000.00 \$ 35,000.00 \$ 35,000.00 \$ 36,000.00 \$ 36,	1 1			\$ - \$	\$ 108,000.00 \$ 151,000.00 \$ 381,000.00 \$ 28,000.00 \$ 158,000.00 \$ 158,000.00 \$ 158,000.00 \$ 158,000.00 \$ 158,000.00 \$ 158,000.00 \$ 93,000.00 \$ 73,000.00 \$ 73,000.00 \$ 73,000.00 \$ 73,000.00 \$ 73,000.00 \$ 281,000.00 \$ 281,000.00 \$ 281,000.00 \$ 281,000.00 \$ 88,000.00 \$ 88,000.00 \$ 441,000.00 \$ 227,000.00 \$ 285,000.00 \$ 285,000.00 \$ 286,000.00 \$ 286,000.00 \$ 286,000.00 \$ 486,0000.00 \$ 16,0000.00 <tr tbody=""><</tr>
-Bits 213 -Bits 214 -Nud & Chemicals 214 -Cemeni Surface 217 -Cemeni Surface 217 -Cemeni Infermed 218 -Prod-2nd Inf Cmt 219 -Prod-2nd Inf Cmt 219 -Prod-2nd Informent & Centralizers 221 -Contract Equipment & Centralizers 2221 -Contract Sprvan 228 -Company Sprvan 228 -Contract Sprvan 228 -Mud Logging Unit 229 -Fraig Cag/Tbg 228 -Mud Logging Unit 229 -Fraig Cag/Tbg 236 -Nentals-Subarfo 236 -Fraid Scaff/Rig Mob 237 -Welding Services 238 -Contract Sprvan 243 -Contract Sprvan 306 -Frac Chemicals 306 -Frac Proppant 307 -Frac Chemicals 308 -Frac Proppant 311 -Wattor & Savices 311 -Vater Savices -Frac Chemicals 311 -Partol Delvery & Savices 311 -Frac Chemicals 312 -Frac Chemicals 311 -Vatifical Lfl Install <		\$ 151,000.00 \$ 361,000.00 \$ 28,000.00 \$ 107,000.00 \$ 107,000.00 \$ 158,000.00 \$ 360,000.00 \$ 370,000.00 \$ 771,000.00 \$ 771,000.00 \$ 371,000.00 \$ 281,000.00 \$ 281,000.00 \$ 281,000.00 \$ 35,000.00 \$ 35,000.00 \$ 36,000.00 \$ 36,	1 1			\$ - \$ <td>\$ 151,000.00 \$ 361,000.00 \$ 361,000.00 \$ 107,000.00 \$ 107,000.00 \$ 105,000.00 \$ 158,000.00 \$ 93,000.00 \$ 93,000.00 \$ 93,000.00 \$ 73,000.00 \$ 73,000.00 \$ 71,000.00 \$ 73,000.00 \$ 71,000.00 \$ 73,000.00 \$ 73,000.00 \$ 281,000.00 \$ 281,000.00 \$ 281,000.00 \$ 127,000.00 \$ 1440,000.00 \$ 14,400.00 \$ 227,000.00 \$ 242,000.00 \$ 286,000.00 \$ 286,000.00 \$ 486,000.00 \$ 16,000.00 \$ 16,000.00</td>	\$ 151,000.00 \$ 361,000.00 \$ 361,000.00 \$ 107,000.00 \$ 107,000.00 \$ 105,000.00 \$ 158,000.00 \$ 93,000.00 \$ 93,000.00 \$ 93,000.00 \$ 73,000.00 \$ 73,000.00 \$ 71,000.00 \$ 73,000.00 \$ 71,000.00 \$ 73,000.00 \$ 73,000.00 \$ 281,000.00 \$ 281,000.00 \$ 281,000.00 \$ 127,000.00 \$ 1440,000.00 \$ 14,400.00 \$ 227,000.00 \$ 242,000.00 \$ 286,000.00 \$ 286,000.00 \$ 486,000.00 \$ 16,000.00 \$ 16,000.00
-Cement Surface 217 -Cement Informed 218 D-Prod-2nd Inf Cmt 219 >Float Equipment & Centralizers 221 -Contract Equipment & Centralizers 2221 >Contract Labor 225 >Contract Sprvan 226 >Contract Labor 227 >Toto Carton Sprvan 227 >Toto Carton Sprvan 228 >Company Sprvan 228 >Aud Logging Unit 229 >Tracking/Forkift/Rig Mob 237 >Trucking/Forkift/Rig Mob 237 >Trucking/Forkift/Rig Mob 238 >Comparts Surface 238 >Contract Sprvan 236 >Completion OH 306 -Frac Proppant 307 >Wattors Frac Prep 304 -Frac Proppant Transportation 310 >Frac Proppant Transportation 307 -Frac Chemicals 311 >Water 327 >Aufficial Lfl Install 328 >Contract Labor 325 >Contract Labo		\$ 28,000.00 \$ 107,000.00 \$ 158,000.00 \$ 86,000.00 \$ 93,000.00 \$ 171,000.00 \$ 171,000.00 \$ 58,000.00 \$ 281,000.00 \$ 281,000.00 \$ 281,000.00 \$ 3,000.00 \$ 3,000.000\$ \$ 3,000.000\$ \$ 3,000.000\$ \$ 3,000.000\$ \$ 3,000\$ \$ 3,000\$	1 1 1 1			\$ - \$ -	\$ 381,000,00 \$ 28,000,00 \$ 158,000,00 \$ 158,000,00 \$ 96,000,00 \$ 98,000,00 \$ 98,000,00 \$ 98,000,00 \$ 98,000,00 \$ 98,000,00 \$ 73,000,00 \$ 77,1000,00 \$ 58,000,00 \$ 281,000,00 \$ 31,000,00 \$ 201,000,00 \$ 5,000,00 \$ 441,000,00 \$ 14,600,00 \$ 227,000,00 \$ 282,000,00 \$ 282,000,00 \$ 282,000,00 \$ 282,000,00 \$ 282,000,00 \$ 286,000,00 \$ 3886,000,00 \$ 3886,000,00 \$ 388,000,00 \$ 3886,000,00 \$ 3886,000,00 <tr< td=""></tr<>
-Cement Intermed 218 -Ceneral Int Crnt 219 -Prod-2nd Int Crnt 219 -Prod-2nd Int Crnt 219 -Prod-2nd Int Crnt 219 -Contract Labor 222 -Company Sprvan 226 -Comtract Labor 227 -Contract Labor 228 -Contract Sprvan 228 -Contract Sprvan 228 -Mad Logging Unit 229 -Mat Logging Unit 223 -Rentals-Subarfc 236 -Trucking/Forkiif/Rig Mob 237 -Trucking/Forkiif/Rig Mob 237 -Contrigency 244 -Welting Services 308 -Completion OH 308 -Frac Chemicals 306 -Frac Proppant Transportation 310 -Frac Proppant Services 311 -Water 326 -Contract Labor 326 -Contract Labor 326 -Contract Labor 343 -Dyed Delevery & Services 337		\$ 28,000.00 \$ 107,000.00 \$ 158,000.00 \$ 86,000.00 \$ 93,000.00 \$ 171,000.00 \$ 171,000.00 \$ 58,000.00 \$ 281,000.00 \$ 281,000.00 \$ 281,000.00 \$ 3,000.00 \$ 3,000.000\$ \$ 3,000.000\$ \$ 3,000.000\$ \$ 3,000.000\$ \$ 3,000\$ \$ 3,000\$	1 1 1 1			\$ - \$ -	\$ 28,000,00 \$ 107,000,00 \$ 107,000,00 \$ 105,000,00 \$ 98,000,00 \$ 93,000,00 \$ 10,000,00 \$ 73,000,00 \$ 73,000,00 \$ 73,000,00 \$ 73,000,00 \$ 65,000,00 \$ 281,000,00 \$ 281,000,00 \$ 201,000,00 \$ 201,000,00 \$ 201,000,00 \$ 23,000,00 \$ 23,000,00 \$ 23,000,00 \$ 23,000,00 \$ 23,000,00 \$ 242,000,00 \$ 285,000,00 \$ 286,000,00 \$ 886,000,00 \$ 480,000,00 \$ 480,000,00 \$ 480,000,00 \$ 480,000,00 \$ 480,000,00
D-Prod-2nd Int Cmt 219 D-Float Equipment & Centrakzers 221 D-Float Equipment & Centrakzers 221 D-Contract Labor 222 D-Contract Labor 226 D-Contract Labor 228 D-Contract Sprven 227 D-Test Ceg/Tbg 228 D-Contract Sprven 227 D-Test Ceg/Tbg 228 D-Rentals-Surface 235 D-Rentals-Surface 236 D-Rentals-Surface 236 D-Rentals-Surface 238 D-Contingerory 243 D-Contingerory 243 D-Environtil/Cial Loop 244 -Welthors Frac Prep 304 -Compent 306 -Compent Transportation 307 -Frac Proppant Transportation 310 -Frac Proppant Transportation 326 -Contract Labor 325 -Contract Labor 326 -Contract Sprvan 327 -Contract Labor 335 -Tracking/Forktit/Rig Mob		\$ 107,000,00 \$ 158,000,00 \$ 86,000,00 \$ 93,000,00 \$ 10,000,00 \$ 73,000,00 \$ 77,000,00 \$ 77,000,00 \$ 28,000,00 \$ 281,000,00 \$ 281,000,00 \$ 201,000,00 \$ 3,5000,00 \$ 86,000,00 \$ 86,000,00 \$ 86,000,00 \$ 3,000,00 \$ 3,000,000 \$ 3,000,0000 \$ 3,000,0000 \$ 3,0000,0000 \$ 3,000000 \$ 3,0000000 \$	1 1			\$ - \$ -	\$ 107,000,00 \$ 158,000,00 \$ 158,000,00 \$ 93,000,00 \$ 93,000,00 \$ 10,000,00 \$ 10,000,00 \$ 171,000,00 \$ 171,000,00 \$ 58,000,00 \$ 281,000,00 \$ 285,000,00 \$ 201,000,00 \$ 201,000,00 \$ 5,000,00 \$ 201,000,00 \$ 201,000,00 \$ 441,000,00 \$ 23,000,00 \$ 242,000,00 \$ 242,000,00 \$ 242,000,00 \$ 243,000,00 \$ 244,000,00 \$ 286,000,00 \$ 480,000,00 \$ 480,000,00 \$ 16,000,00 \$ 16,000,00
D-Fost Equipment & Centreitzers 2211 D-Cag Crews & Equip 2222 D-Contract Labor 2225 D-Company Sprvan 2281 D-Company Sprvan 2282 D-Company Sprvan 2281 D-Tastig Cag/Tbg 2282 D-Mud Logging Unit 229 D-Rentals-Subaric 238 D-Rentals-Subaric 238 D-Trucking/Fort/sit/Rig Mob 237 D-Wetking Services 238 D-Contride Scharter 238 D-Trucking/Fort/sit/Rig Mob 237 D-Wetking Services 238 D-Contrigency 243 D-Contrigency 244 U-Wetking Services 306 D-Frac Chemicals 306 D-Frac Chemicals 308 D-Frac Proppant Transportation 300 D-Frac Proppant Transportation 300 D-Frac Proppant Sprvan 326 D-Contract Labor 327 D-Artificial Lff Install 329 D-Weter & Services 3311		\$ 158,000,00 \$ 86,000,00 \$ 93,000,00 \$ 10,000,00 \$ 73,000,00 \$ 171,000,00 \$ 36,000,00 \$ 281,000,00 \$ 281,000,00 \$ 281,000,00 \$ 201,000,00 \$ 3,000,00 \$ 3,000,000 \$ 3,	1 1 1 1 1 1 1 1 1 1 1 1 1 1			\$ - \$ -	\$ 158,000,00 \$ 86,000,00 \$ 83,000,00 \$ 93,000,00 \$ 10,000,00 \$ 73,000,00 \$ 73,000,00 \$ 73,000,00 \$ 73,000,00 \$ 73,000,00 \$ 281,000,00 \$ 281,000,00 \$ 281,000,00 \$ 201,000,00 \$ 88,000,00 \$ 88,000,00 \$ 23,000,00 \$ 23,000,00 \$ 227,000,00 \$ 227,000,00 \$ 227,000,00 \$ 285,000,00 \$ 285,000,00 \$ 286,000,00 \$ 886,000,00 \$ 480,000,00 \$ 16,000,00 \$ 16,000,00
D-Cag Crews & Equip 2221 D-Contract Labor 2255 D-Company Sprvan 2261 D-Contract Sprvan 2276 D-Mattale-Surface 238 D-Mattale-Surface 238 D-Tractale-Surface 238 D-Tractale-Surface 238 D-Tracting/Fortsift/Rig Mob 237 D-Wakling Services 238 D-Tractale-Subarface 238 D-Tractagramency 243 D-Environtifical Coop 244 D-Environtifical Coop 244 C-Arting Face Prop 304 C-LardyPitaRoads 306 C-Frace Croppart Transportation 310 C-Frace Proppart Transportation 310 C-Frace Coppart Sprvan 326 C-Contract Labor 325 C-Artifical Lift Instali 320 C-Artifical Lift Instali 320		\$ 86,000.00 \$ 93,000.00 \$ 10,000.00 \$ 73,000.00 \$ 73,000.00 \$ 171,000.00 \$ 58,000.00 \$ 281,000.00 \$ 281,000.00 \$ 131,000.00 \$ 201,000.00 \$ 3,000.00 \$ 3,000.000\$ \$ 3,000.00 \$ 3,000.000\$ \$ 3,000.000\$ \$ 3,000.000\$ \$ 3,000.000\$ \$ 3,00	1 1 1 1 1 1 1 1 1 1 1 1 1 1			3 - 5 <td>8 86,000,00 \$ 93,000,00 \$ 93,000,00 \$ 73,000,00 \$ 73,000,00 \$ 73,000,00 \$ 73,000,00 \$ 73,000,00 \$ 73,000,00 \$ 58,000,00 \$ 58,000,00 \$ 281,000,00 \$ 201,000,00 \$ 201,000,00 \$ 201,000,00 \$ 200,000,00 \$ 127,000,00 \$ 127,000,00 \$ 1440,000,00 \$ 285,000,00 \$ 286,000,00 \$ 286,000,00 \$ 486,000,00 \$ 486,000,00 \$ 16,000,00 \$ 16,000,00</td>	8 86,000,00 \$ 93,000,00 \$ 93,000,00 \$ 73,000,00 \$ 73,000,00 \$ 73,000,00 \$ 73,000,00 \$ 73,000,00 \$ 73,000,00 \$ 58,000,00 \$ 58,000,00 \$ 281,000,00 \$ 201,000,00 \$ 201,000,00 \$ 201,000,00 \$ 200,000,00 \$ 127,000,00 \$ 127,000,00 \$ 1440,000,00 \$ 285,000,00 \$ 286,000,00 \$ 286,000,00 \$ 486,000,00 \$ 486,000,00 \$ 16,000,00 \$ 16,000,00
>Cag Crews & Equip 2221 >Contract Labor 225 >Company Sprvan 226 >Contract Sprvan 228 >Trucking/Forkill/Rig Mob 237 >Rentals-Sutrace 238 >Trucking/Forkill/Rig Mob 237 >Wekting Services 238 >Contingercy 243 >EnvramtifCiad Loop 244 >Contringercy 243 >EnvramtifCiad Loop 244 >Contingercy 243 >Frac Chymbels 306 -Frac Proppart 306 >Frac Chympart 307 >Frac Chympart 308 >Frac Chympart 308 >Frac Chympart Transportation 310 >Frac Proppart Transportation 326 >Contract Labor 325 >Contract Labor 326 >Contract Labor 331 <		\$ 93,000.00 \$ 10,000.00 \$ 73,000.00 \$ 73,000.00 \$ 58,000.00 \$ 65,000.00 \$ 281,000.00 \$ 131,000.00 \$ 201,000.00 \$ 5,000.00 \$ 38,000.00 \$ 38,00000 \$ 38,000000 \$ 38,0000000 \$ 3	1 1 1 1 1 1 1 1 1 1 1 1 1 1			S - S <td>\$ 93,000.00 \$ 10,000.00 \$ 73,000.00 \$ 73,000.00 \$ 73,000.00 \$ 58,000.00 \$ 58,000.00 \$ 281,000.00 \$ 281,000.00 \$ 201,000.00 \$ 201,000.00 \$ 5,000.00 \$ 441,000.00 \$ 127,000.00 \$ 148,000.00 \$ 223,000.00 \$ 422,000.00 \$ 2825,000.00 \$ 442,000.00 \$ 2827,000.00 \$ 484,000.00 \$ 484,000.00 \$ 484,000.00 \$ 486,000.00 \$ 486,000.00 \$ 486,000.00 \$ 486,000.00 \$ 486,000.00 \$ 16,000.00 \$ 16,000.00</td>	\$ 93,000.00 \$ 10,000.00 \$ 73,000.00 \$ 73,000.00 \$ 73,000.00 \$ 58,000.00 \$ 58,000.00 \$ 281,000.00 \$ 281,000.00 \$ 201,000.00 \$ 201,000.00 \$ 5,000.00 \$ 441,000.00 \$ 127,000.00 \$ 148,000.00 \$ 223,000.00 \$ 422,000.00 \$ 2825,000.00 \$ 442,000.00 \$ 2827,000.00 \$ 484,000.00 \$ 484,000.00 \$ 484,000.00 \$ 486,000.00 \$ 486,000.00 \$ 486,000.00 \$ 486,000.00 \$ 486,000.00 \$ 16,000.00 \$ 16,000.00
-Contract Labor 225 -Company Sprvan 226 -Company Sprvan 226 -Contract Sprvan 227 -Tetg Cag/Tbg 228 -Mud Logging Unit 229 -Rentals-Surface 236 -Rentals-Surface 236 -Rentals-Surface 236 -Rentals-Surface 238 -Contingeroy 243 -Contract Labor 243 -Completion OH 308 -Frac Proppant 308 -Frac Proppant Transportation 310 -Frac Proppant Transportation 310 -Frac Surface Rentals 315 -Contract Labor 325 -Contract Labor 326 -Contract Labor 326 -Contract Labor 343 -Trucking/Fo		\$ 73,000.00 \$ 171,000.00 \$ 58,000.00 \$ 65,000.00 \$ 281,000.00 \$ 131,000.00 \$ 201,000.00 \$ 201,000.00 \$ 38,000.00 \$ 38,000.00	1 1 1 1 1 1 1 1 1 1 1 1 1 1			\$ - \$ -	\$ 10,000.00 \$ 73,000.00 \$ 73,000.00 \$ 171,000.00 \$ 58,000.00 \$ 281,000.00 \$ 281,000.00 \$ 281,000.00 \$ 281,000.00 \$ 201,
2-Company Sprvan 226 2-Contract Sprvan 227 2-Tatg Cag/Tbg 228 2-Mud Logging Unit 229 2-Rentals-Subarfo 236 2-Trucking/Forktift/Rig Mob 237 2-Welding Services 238 2-Contingency 243 2-Mittle Services 238 2-Contringency 244 2-Welting Services 306 2-former Prac Prep 304 2-tar/Pritz/Roads 306 2-frac Temolas 308 2-frac Proppant Transportation 300 2-frac Proppant Transportation 310 2-Water Services 311 2-Water Services 321 2-frac Proppant Transportation 326 326 2-frac Proppant Transportation 326 326 2-frac Labor 325 <td></td> <td>\$ 73,000.00 \$ 171,000.00 \$ 58,000.00 \$ 65,000.00 \$ 281,000.00 \$ 131,000.00 \$ 201,000.00 \$ 201,000.00 \$ 38,000.00 \$ 38,000.00</td> <td>1 1 1 1 1 1 1 1 1 1 1 1 1 1</td> <td></td> <td></td> <td>\$ - \$ -</td> <td>\$ 73,000,00 \$ 171,000,00 \$ 58,000,00 \$ 65,000,00 \$ 281,000,00 \$ 281,000,00 \$ 281,000,00 \$ 201,000,00 \$ 201,000,00 \$ 5,000,00 \$ 201,000,00 \$ 5,000,00 \$ 201,000,00 \$ 23,000,00 \$ 16,000,00 \$ 285,000,00 \$ 286,000,00 \$ 286,000,00 \$ 480,000,00 \$ 480,000,00 \$ 480,000,00 \$ 480,000,00 \$ 16,000,00 \$ 16,000,00</td>		\$ 73,000.00 \$ 171,000.00 \$ 58,000.00 \$ 65,000.00 \$ 281,000.00 \$ 131,000.00 \$ 201,000.00 \$ 201,000.00 \$ 38,000.00 \$ 38,000.00	1 1 1 1 1 1 1 1 1 1 1 1 1 1			\$ - \$ -	\$ 73,000,00 \$ 171,000,00 \$ 58,000,00 \$ 65,000,00 \$ 281,000,00 \$ 281,000,00 \$ 281,000,00 \$ 201,000,00 \$ 201,000,00 \$ 5,000,00 \$ 201,000,00 \$ 5,000,00 \$ 201,000,00 \$ 23,000,00 \$ 16,000,00 \$ 285,000,00 \$ 286,000,00 \$ 286,000,00 \$ 480,000,00 \$ 480,000,00 \$ 480,000,00 \$ 480,000,00 \$ 16,000,00 \$ 16,000,00
-Contract Sprvan 227 -Cratg Cag/Tbg 228 D-Mud Logging Unit 229 D-Rentals-Surface 236 D-Mud Logging Unit 229 D-Rentals-Surface 236 D-Turstige Services 238 D-Turstige Services 238 D-Turstige Services 238 D-Tursting Services 238 D-Tursting Services 238 D-Tursting Services 238 D-Environtit/Cisd Loop 244 D-Environtit/Cisd Loop 306 C-Frac Proppant 306 C-Frac Proppant Transportation 310 Frac Surface Rentals 315 C-Contract Labor 326 C-Contract Labor 337 C-Matter Disposal 330 C-Initiget		\$ 171,000.00 \$ 58,000.00 \$ 65,000.00 \$ 281,000.00 \$ 131,000.00 \$ 201,000.00 \$ 5,000.00 \$ 88,000.00	1 1 1 1 1 1 1 1 1 1 1 1 1 1			\$ - \$ -	\$ 171,000,00 \$ 58,000,00 \$ 58,000,00 \$ 281,000,00 \$ 281,000,00 \$ 131,000,00 \$ 201,000,00 \$ 5,000,00 \$ 5,000,00 \$ 5,000,00 \$ 8,000,00 \$ 441,000,00 \$ 127,000,00 \$ 1464,000,00 \$ 285,000,00 \$ 2827,000,00 \$ 484,000,00 \$ 886,000,00 \$ 886,000,00 \$ 886,000,00 \$ 886,000,00 \$ 16,000,00 \$ 16,000,00
D-Tasg Ceg/Tbg 228 D-Mud Logging Unit 220 D-Mud Logging Unit 220 D-Rentals-Surface 235 D-Rentals-Surface 236 D-Rentals-Surface 236 D-Rentals-Surface 238 D-Rentals-Surface 238 D-Rentals-Surface 238 D-Rentals-Surface 238 D-Welding Services 238 D-Contingency 243 D-Contingency 244 UWelbors Frac Prep 304 -AutrPitsRoads 306 D-Frac Equipment 307 D-Frac Proppart 308 D-Frac Proppart Transportation 310 D-Water Services 311 D-Water Cabor 325 Contract Labor 326 -Contract Labor 331 227 Aufficial Uff. Inst		\$ 58,000.00 \$ 65,000.00 \$ 281,000.00 \$ 131,000.00 \$ 201,000.00 \$ 5,000.00 \$ 88,000.00	1 1 1 1 1 1 1 1 1 1 1 1 1 1			\$ - \$ -	\$ 58,000,00 \$ 65,000,00 \$ 281,000,00 \$ 281,000,00 \$ 291,000,00 \$ 201,000,00 \$ 201,000,00 \$ 5,000,00 \$ 3000,00 \$ 127,000,00 \$ 16,000,00 \$ 1441,000,00 \$ 285,000,00 \$ 286,000,00 \$ 286,000,00 \$ 886,000,00 \$ 480,000,00 \$ 480,000,00 \$ 16,000,00 \$ 16,000,00
D-Mud Logging Unit 229 D-Rentals-Surface 236 D-Rentals-Surface 236 D-Rentals-Surface 236 D-Rentals-Surface 238 D-Trucking/Forkit/Rg Mob 237 D-Trucking/Forkit/Rg Mob 237 D-Trucking/Forkit/Rg Mob 238 D-Contringency 243 D-Enrimit/Cital Loop 244 D-Enrimit/Cital Loop 244 D-Contringency 243 D-Contrigency 243 D-Frac Equipment 306 D-Frac Equipment 307 D-Frac Equipment 309 D-Frac Proppart Transportation 310 D-Frac Proppart Labor 325 D-Contract Labor 326 D-Contract Labor 327 D-Artificial Lift Install 320 D-Perf/Wireline Svig Mode 337 Druct Labor 343 D-Perf/Wireline Svig Mode 337 Druct Labor 345 D-Ortract Labor 374 E-Ortract Labor		\$ 65,000.00 \$ 281,000.00 \$ 131,000.00 \$ 201,000.00 \$ 5,000.00 \$ 88,000.00	1 1 1 1 1 1 1 1 1 1 1 1 1 1			\$ - \$ -	\$ 65,000,00 \$ 281,000,00 \$ 281,000,00 \$ 131,000,00 \$ 201,000,00 \$ 201,000,00 \$ 5,000,00 \$ 201,000,00 \$ 441,000,00 \$ 127,000,00 \$ 127,000,00 \$ 16,000,00 \$ 23,000,00 \$ 14,600,000 \$ 285,000,00 \$ 286,000,00 \$ 480,000,00 \$ 886,000,00 \$ 16,000,00 \$ 16,000,00 \$ 16,000,00
D-Rentals-Surface 236 D-Rentals-Surface 236 D-Rentals-Subarfo 236 D-Rentals-Subarfo 237 D-Rentals-Subarfo 237 D-Wetking Services 238 D-Centingency 243 D-Environmit/Clad Loop 244 D-Methods 306 L-Wetking Services 306 L-Wetking Services 306 L-Wetking Services 306 L-Completion OH 308 P-Frac Creenicsis 308 P-Frac Proppant 308 P-Frac Proppant Transportation 310 D-Frac Proppant Transportation 326 Contract Labor 325 Contract Labor 326 Contract Sprvan 327 Artificial Lfl Install 320 Contract Labor 331 Trucking/Forkfit/Rig Mob 337 P-MWreine Svc 331 Contract Labor 356 PG-Ortract Labor 356 PG-Ortract Labor 356		\$ 281,000.00 \$ 131,000.00 \$ 201,000.00 \$ 5,000.00 \$ 88,000.00	1 1			\$ - \$ -	\$ 281,000.00 \$ 131,000.00 \$ 131,000.00 \$ 201,000.00 \$ 5,000.00 \$ 88,000.00 \$ 441,000.00 \$ 127,000.00 \$ 127,000.00 \$ 16,000.00 \$ 23,000.00 \$ 227,000.00 \$ 285,000.00 \$ 286,000.00 \$ 480,000.00 \$ 480,000.00 \$ 480,000.00 \$ 480,000.00 \$ 480,000.00 \$ 480,000.00 \$ 480,000.00 \$ 480,000.00 \$ 16,000.00 \$ 16,000.00 \$ 227,000.00
D-Rentzles-Subarto 236 D-Trucking/Fortsfit/Rig Mob 237 D-Welding Services 238 D-Contingency 243 D-Contingency 243 D-Contingency 243 D-Contingency 243 D-Contingency 244 ZWelbors Frac Prop 304 C-Intrik/Roads 306 C-Completion OH 308 Prac Equipment 307 Prac Depropert 308 Prac Proppart 308 Prac Proppart Transportation 310 Prac Proppart & Services 311 Prace Versitace Rentals 315 Prace Versitace Rentals 315 Contract Labor 326 Contract Pryson 327 Artificial Lfl Install 329 PertWireline Svc 331 Protod Disseel 345 Drillout 346 Particy PriskRoads 355 Ped-Wireline Svc 391 Ped-Wireline Svc 391 Pedo		\$ 131,000.00 \$ 201,000.00 \$ 5,000.00 \$ 88,000.00	1 1			\$ - \$ -	\$ 131,000,00 \$ 201,000,00 \$ 201,000,00 \$ 5,000,00 \$ 88,000,00 \$ 88,000,00 \$ 441,000,00 \$ 16,000,00 \$ 16,000,00 \$ 23,000,00 \$ 242,000,00 \$ 442,000,00 \$ 64,000,00 \$ 866,000,00 \$ 486,000,00 \$ 16,000,00 \$ 16,000,00 \$ 16,000,00 \$ 16,000,00
D-Trucking/Forkil/Rig Mob 237. D-Walding Services 238 D-Corting Services 238 D-Cortingercy 243 D-Enrimmit/Cisd Loop 244 D-Enring/Enrich 306 D-Competion OH 308 D-Frac Proppart 308 D-Frac Proppart Transportation 310 Frac Proppart Transportation 310 D-Frac Surface Rentals 315 D-Contract Labor 326 C-Contract Sprvsn 326 C-Contract Sprvsn 327 D-Artificial Lift Instali 320 D-Contract Labor 336 C-Nating/Forktifr/Rig Mob 337 D-Water Disposal 338 D-Contract Labor 376 EQ-HR2 Well Offset Frac 391 FeO-W		\$ 201,000.00 \$ 5,000.00 \$ 88,000.00	1 1			\$ - \$ -	\$ 201,000,00 \$ 5,000,00 \$ 88,000,00 \$ 84,000,00 \$ 127,000,00 \$ 127,000,00 \$ 127,000,00 \$ 127,000,00 \$ 146,000,00 \$ 1444,000,00 \$ 1627,000,00 \$ 285,000,00 \$ 286,000,00 \$ 8480,000,00 \$ 8480,000,00 \$ 16,000,00 \$ 16,000,00 \$ 16,000,00
2-Wetking Services 238 2-Contingency 243 2-Contingency 243 2-Contingency 243 2-Contingency 244 2-Wettbors Frac Prep 304 2-Artification OH 306 2-Frac Chemicals 308 2-Frac Proppant 309 2-Frac Proppant Transportation 310 2-Frac Proppant Transportation 310 2-Water 315 2-Frac Sprysin 325 2-Contract Labor 325 2-Contract Sprysin 327 2-Artificial Lfl Instell 329 2-Oritract Sprysin 327 2-Artificial Lfl Instell 329 2-Oritract Labor 331 2-Trucking/Forklit/Rig Mob 337 2-Matter Disposal 336 2-Dred Disseel 345 2-Drillout 346 </td <td></td> <td>\$ 5,000.00</td> <td>1 5 127,000.00 5 18,000.00 5 23,000.00 5 23,000.00 5 225,000.00 5 442,000.00 5 442,000.00 5 442,000.00 5 442,000.00 5 46,000.00 5 40,000.00 5 40,000.00 5 40,000.00 5 40,000.00 5 40,000.00 5 40,000.00 5 40,000.00 5 40,000.00 5 40,000.00 5 40,000.00 5 5 40,000.00 5 5 5 6,000.00 5 5 5 6,000.00 5 5 5 6,000.00 5 5 5 6,000.00 5 5 5 6,000.00 5 5 5 6,000.00 5 5 5 6,000.00 5 5 5 6,000.00 5 5 5 6,000.00 5 5 5 6,000.00 5 5 5 6,000.00 5 5 5 6,000.00 5 5 5 6,000.00 5 5 5 6,000.00 5 5 5 6,000.00 5 5 5 6,000.00 5 5 5 5 5 5 5 5 5 5 5 5 5</td> <td></td> <td></td> <td>\$ - \$ -</td> <td>\$ 5,000,00 \$ 8,000,00 \$ 127,000,00 \$ 127,000,00 \$ 127,000,00 \$ 127,000,00 \$ 23,000,00 \$ 23,000,00 \$ 24,000,00 \$ 242,000,00 \$ 2442,000,00 \$ 2442,000,00 \$ 2442,000,00 \$ 2442,000,00 \$ 2442,000,00 \$ 2442,000,00 \$ 2442,000,00 \$ 2442,000,00 \$ 2442,000,00 \$ 2442,000,00 \$ 2442,000,00 \$ 244,000,00 \$ 244,000,00 \$ 244,000,00 \$ 244,000,000,00 \$ 244,000,00 \$ 244,000,00 \$ 244,000,00 \$ 244,000,00 \$ 244,000,00 \$ 244,000,00 \$ 244,000,00 \$ 244,000,00 \$ 244,000,00 \$ 244,000,00 \$ 244,000,00 \$ 244,000,00 \$ 244,000,00 \$ 244,000,00 \$ 244,000,00 \$ 244,000,00 \$ 244,000,00 \$ 244,000,00 \$ 244,000,</td>		\$ 5,000.00	1 5 127,000.00 5 18,000.00 5 23,000.00 5 23,000.00 5 225,000.00 5 442,000.00 5 442,000.00 5 442,000.00 5 442,000.00 5 46,000.00 5 40,000.00 5 40,000.00 5 40,000.00 5 40,000.00 5 40,000.00 5 40,000.00 5 40,000.00 5 40,000.00 5 40,000.00 5 40,000.00 5 5 40,000.00 5 5 5 6,000.00 5 5 5 6,000.00 5 5 5 6,000.00 5 5 5 6,000.00 5 5 5 6,000.00 5 5 5 6,000.00 5 5 5 6,000.00 5 5 5 6,000.00 5 5 5 6,000.00 5 5 5 6,000.00 5 5 5 6,000.00 5 5 5 6,000.00 5 5 5 6,000.00 5 5 5 6,000.00 5 5 5 6,000.00 5 5 5 6,000.00 5 5 5 5 5 5 5 5 5 5 5 5 5			\$ - \$ -	\$ 5,000,00 \$ 8,000,00 \$ 127,000,00 \$ 127,000,00 \$ 127,000,00 \$ 127,000,00 \$ 23,000,00 \$ 23,000,00 \$ 24,000,00 \$ 242,000,00 \$ 2442,000,00 \$ 2442,000,00 \$ 2442,000,00 \$ 2442,000,00 \$ 2442,000,00 \$ 2442,000,00 \$ 2442,000,00 \$ 2442,000,00 \$ 2442,000,00 \$ 2442,000,00 \$ 2442,000,00 \$ 244,000,00 \$ 244,000,00 \$ 244,000,00 \$ 244,000,000,00 \$ 244,000,00 \$ 244,000,00 \$ 244,000,00 \$ 244,000,00 \$ 244,000,00 \$ 244,000,00 \$ 244,000,00 \$ 244,000,00 \$ 244,000,00 \$ 244,000,00 \$ 244,000,00 \$ 244,000,00 \$ 244,000,00 \$ 244,000,00 \$ 244,000,00 \$ 244,000,00 \$ 244,000,00 \$ 244,000,00 \$ 244,000,
2-Contingency 243 D-Contingency 244 2-Wallbors Frac Prep 304 2-Wallbors Frac Prep 304 2-Uct/Pfts/Roads 305 2-Completion OH 308 2-Frac Chemicals 308 2-Frac Chemicals 308 2-Frac Chemicals 309 2-Frac Proppart Tansportation 310 2-Frac Proppart Tansportation 311 2-Water 312 2-Frac Proppart Tansportation 320 2-Frac Proppart Tansportation 311 2-Water 312 2-Water 325 2-Contract Labor 326 2-Contract Labor 327 2-Perf/Wireline Svic 331 2-Water Disposal 339 2-Water Disposal 336 2-Divide Labor 343 2-Divide Labor 374 B-Location/Pits/Roads 353 2-Water Disposal 339 2-O-Contract Labor 374 EQ-Contract Labor 374		\$ 88,000.00	\$ 127,000.00 \$ 127,000.00 \$ 16,000.00 \$ 16,000.00 \$ 23,000.00 \$ 1464,000.00 \$ 285,000.00 \$ 442,000.00 \$ 866,000.00 \$ 866,000.00 \$ 16,000.00 \$ 866,000.00 \$ 866,000.00 \$ 16,000.00 \$ 16,000.00 \$ 16,000.00 \$ 27,000.00 \$ 26,000.00 \$ 26,000.00 \$ 16,000.00 \$ 27,000.00 \$ 26,000.00 \$ 26,000.00 \$ 26,000.00 \$ 26,000.00 \$ 26,000.00 \$ 26,000.00 \$ 26,000.00 \$ 26,000.00 \$ 26,000.00 \$ 26,000.00 \$ 26,000.00 \$ 16,000.00 \$ 16,000.00			\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 88,000.00 \$ 441,000.01 \$ 127,000.00 \$ 127,000.00 \$ 23,000.00 \$ 23,000.00 \$ 23,000.00 \$ 23,000.00 \$ 286,000.00 \$ 886,000.00 \$ 886,000.00 \$ 16,000.00 \$ 16,000.00 \$ 16,000.00 \$ 227,000.00 \$ 20,000,00 \$ 20,000,000,00 \$ 20,000,00 \$ 20,000,000 \$ 20,000,000
-Envrmit/Cisd Loop 244 -Smethors Frac Prep 304 -Lich/Pits/Roads 306 -Completion OH 308 -Frac Equipment 307 -Frac Cupment 307 -Frac Cupment 308 -Frac Cupment 307 -Frac Cupment 308 -Frac Cupmant Transportation 310 -Frac Proppant Transportation 310 -Frac Proppant Transportation 310 -Frac Proppant Transportation 312 -Frac Surface Rentals 313 -Contract Labor 325 -Contract Labor 326 -Contract Sprvsn 326 -Contract Disposal 339 -Contract Disposal 339 -Contract Labor 343 -Trucking/Forkfi/Rig Mob 337 -Water Disposal 351 B-Location/PitaRoade 355 EQ-HR2 Well Offset Frac 391 FeO-Water Disposal 387 -EQ-HR2 Well Offset Frac 391 Fotal Intangible Costs </td <td></td> <td></td> <td>1 \$ 127,000.00 \$ 16,000.00 \$ 16,000.00 \$ 23,000.00 \$ 1,464,000.00 \$ 265,000.00 \$ 422,000.00 \$ 442,000.00 \$ 442,000.00 \$ 442,000.00 \$ 46,000.00 \$ 46,000.00 \$ 46,000.00 \$ 46,000.00 \$ 486,000.00 \$ 486,000.00 \$ 48,000.00 \$ 48,000.00 \$ 48,000.00 \$ 48,000.00 \$ 48,000.00 \$ 48,000.00 \$ 48,000.00 \$ 48,000.00 \$ 48,000.00 \$ 27,000.00 \$ 27,000.00 \$ 27,000.00 \$ 570,000.00 \$ 570,000.00 \$ 16,000.00</td> <td></td> <td></td> <td>\$ - \$ -</td> <td>\$ 441,000,00 \$ 127,000,00 \$ 127,000,00 \$ 127,000,00 \$ 23,000,00 \$ 23,000,00 \$ 242,000,00 \$ 285,000,00 \$ 286,000,00 \$ 442,0000,00 \$ 442,0000,00 \$ 442,000,00 \$ 442,000,00 \$ 442,000,00 \$ 460,000,00 \$</td>			1 \$ 127,000.00 \$ 16,000.00 \$ 16,000.00 \$ 23,000.00 \$ 1,464,000.00 \$ 265,000.00 \$ 422,000.00 \$ 442,000.00 \$ 442,000.00 \$ 442,000.00 \$ 46,000.00 \$ 46,000.00 \$ 46,000.00 \$ 46,000.00 \$ 486,000.00 \$ 486,000.00 \$ 48,000.00 \$ 48,000.00 \$ 48,000.00 \$ 48,000.00 \$ 48,000.00 \$ 48,000.00 \$ 48,000.00 \$ 48,000.00 \$ 48,000.00 \$ 27,000.00 \$ 27,000.00 \$ 27,000.00 \$ 570,000.00 \$ 570,000.00 \$ 16,000.00			\$ - \$ -	\$ 441,000,00 \$ 127,000,00 \$ 127,000,00 \$ 127,000,00 \$ 23,000,00 \$ 23,000,00 \$ 242,000,00 \$ 285,000,00 \$ 286,000,00 \$ 442,0000,00 \$ 442,0000,00 \$ 442,000,00 \$ 442,000,00 \$ 442,000,00 \$ 460,000,00 \$
2-Wellbors Frac Prep 304 2-Uctr/Pits/Roads 306 2-Lctr/Pits/Roads 306 2-Lctr/Pits/Roads 306 2-Frac Equipment 307 2-Frac Equipment 308 2-Frac Proppart Transportation 300 2-Frac Proppart Transportation 300 2-Frac Proppart Transportation 310 2-Frac Proppart Transportation 310 2-Frac Stremetals 311 2-Water 312 2-Frac Stremetals 312 2-Frac Stremetals 312 2-Frac Straface Rentals 315 2-Contract Labor 326 2-Contract Sprvsn 327 2-Artificial Lfl Install 329 2-PerfWireline Svc 331 2-Water Disposal 333 2-Dred Disseel 343 2-Drillout 346 2-Drillout 346 2-Drillout 346 2-Drillout 346 2-Drillout 346 2-Drindu Uffset Frac 391			\$ 127,000.00 \$ 16,000.00 \$ 23,000.00 \$ 23,000.00 \$ 23,000.00 \$ 627,000.00 \$ 627,000.00 \$ 442,000.00 \$ 866,000.00 \$ 866,000.00 \$ 480,000.00 \$ 16,000.00 \$ 16,000.00 \$ 27,000.00 \$ 28,000.00 \$ 28,000.00 \$ 28,000.00 \$ 28,000.00 \$ 28,000.00 \$ 28,000.00 \$ 28,000.00 \$ 28,000.00 \$ 27,000.00 \$ 570,000.00 \$ 16,000.00			\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 127,000.00 127,000.00 12,000.00 1464,000 1464,000 1464,000 1464,000 1464,000
C-Ldr/Pfts/Roads 306 C-Completion OH 306 C-Completion OH 306 C-Frac Equipment 307 C-Frac Chemicsis 308 C-Frac Proppart 308 C-Frac Proppart Transportation 310 C-Frac Proppart Transportation 310 C-Frac Proppart Transportation 310 C-Frac Sturface Rentab 312 C-Frac Sturface Rentab 315 C-Contract Labor 326 C-Artifical Lift Install 320 C-Artifical Lift Install 320 C-Artifical Lift Install 329 C-Artifical Lift Install 329 C-Artifical Lift Install 329 C-Artifical Lift Install 329 C-Intigency 343 C-Droppang Stright of Way 351 IB-Location/Pita/Roads 353 EQ-Chitact Labor 374 FEQ-Hioviback Crews & Equip 392 Fed-Hioviback Crews & Equip 392 Fed-Hioviback Crews & Equip 392 Fed-Hioviback Crews & Equip <td></td> <td></td> <td>\$ 16,000.00 \$ 23,000.00 \$ 1,464,000.00 \$ 1,464,000.00 \$ 1,464,000.00 \$ 1,464,000.00 \$ 1,464,000.00 \$ 1,464,000.00 \$ 1,464,000.00 \$ 480,000.00 \$ 486,000.00 \$ 16,000.00 \$ 16,000.00 \$ 27,000.00 \$ 287,000.00 \$ 27,000.00 \$ 570,000.00 \$ 16,000.00</td> <td></td> <td></td> <td>\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -</td> <td>\$ 16,000,00 23,000,00 32,000,00 34,000,00</td>			\$ 16,000.00 \$ 23,000.00 \$ 1,464,000.00 \$ 1,464,000.00 \$ 1,464,000.00 \$ 1,464,000.00 \$ 1,464,000.00 \$ 1,464,000.00 \$ 1,464,000.00 \$ 480,000.00 \$ 486,000.00 \$ 16,000.00 \$ 16,000.00 \$ 27,000.00 \$ 287,000.00 \$ 27,000.00 \$ 570,000.00 \$ 16,000.00			\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 16,000,00 23,000,00 32,000,00 34,000,00
C-Completion OH 308 C-Frac Chemicals 307 C-Frac Chemicals 308 C-Frac Proppart 309 C-Frac Proppart 309 C-Frac Proppart 309 C-Frac Proppart 308 C-Frac Proppart 308 C-Frac Proppart Transportation 310 C-Frac Surface Rentals 311 C-Water 312 C-Contract Labor 325 C-Contract Sprvan 327 C-Artificial Lift Install 329 C-Contract Sprvan 327 C-Artificial Lift Install 329 C-Contract Labor 331 C-Trucking/Forkit//Rig Mob 337 C-Water Disposal 339 C-Ontract Labor 351 B-Locaston/Pita/Roads 353 EQ-Contract Labor 356 EQ-C-Water Disposal 367 EQ-Water Disposal 367 EQ-Water Disposal 367 EQ-HR2 Witel Offset Frac 391 Fotal Intangible Costs 56 <td></td> <td></td> <td>\$ 23,000.00 \$ 1,464,000.00 \$ 627,000.00 \$ 627,000.00 \$ 285,000.00 \$ 442,000.00 \$ 460,000.00 \$ 866,000.00 \$ 460,000.00 \$ 460,000.00 \$</td> <td></td> <td></td> <td>\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -</td> <td>\$ 23,000,00 \$ 1,484,000,00 \$ 627,000,00 \$ 285,000,00 \$ 442,000,00 \$ 442,000,00 \$ 886,000,00 \$ 886,000,00 \$ 16,000,00 \$ 16,000,00 \$ 227,000,00 \$ 227,000,00</td>			\$ 23,000.00 \$ 1,464,000.00 \$ 627,000.00 \$ 627,000.00 \$ 285,000.00 \$ 442,000.00 \$ 460,000.00 \$ 866,000.00 \$ 460,000.00 \$			\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 23,000,00 \$ 1,484,000,00 \$ 627,000,00 \$ 285,000,00 \$ 442,000,00 \$ 442,000,00 \$ 886,000,00 \$ 886,000,00 \$ 16,000,00 \$ 16,000,00 \$ 227,000,00 \$ 227,000,00
C-Frac Equipment 307 C-Frac Chemicals 308 C-Frac Chemicals 308 C-Frac Proppart Tansportation 310 C-Frac Proppart Tansportation 310 C-Frac Proppart Tansportation 311 C-Water 312 C-Frac Surface Rentals 315 C-Water 328 C-Contract Labor 326 C-Company Sprvsn 328 C-Contract Labor 327 C-Artificial Lift Instell 320 C-Perf/Wireline Svic 331 C-Water Disposal 333 C-Ontract Labor 343 C-Divide Libor 343 C-Divide Libor 343 C-Divide Libor 343 C-Divide Disseel 345 C-Unitiout 346 C-Oritract Labor 374 PEO-Water Disposal 387 PEO-Water Disposal 387 PEO-Water Disposal 387 PEO-Water Labor 374 PEO-Water Disposal 387			\$ 1,464,000.00 \$ 627,000.00 \$ 627,000.00 \$ 285,000.00 \$ 285,000.00 \$ 442,000.00 \$ 442,000.00 \$ 866,000.00 \$ 866,000.00 \$ 16,000.00 \$ 16,000.00 \$ 366,000.00 \$ 16,000.00 \$ 16,000.00 \$ 16,000.00 \$ 16,000.00 \$ 27,000.00 \$ 227,000.00 \$ 26,000.00 \$ 27,000.00 \$ 26,000.00 \$ 27,000.00 \$ 26,000.00 \$ 27,000.00			\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 1,464,000.00 \$ 627,000.00 \$ 285,000.00 \$ 442,000.00 \$ 64,000.00 \$ 866,000.00 \$ 866,000.00 \$ 16,000.00 \$ 16,000.00 \$ 227,000.00 \$ 227,000.00
C-Frac Chemicals 306 C-Frac Proppart 306 C-Frac Proppart Transportation 310 C-Frac Proppart Transportation 310 C-Frac Proppart Transportation 310 C-Frac Surface Rentals 311 C-Frac Surface Rentals 315 C-Contract Labor 326 C-Contract Sprvan 328 C-Contract Sprvan 327 C-Artifictal Lift Instali 320 C-Artifictal Lift Instali 320 C-Contract Sprvan 337 C-Trucking/Fortkift/Rig Mob 337 C-Contract Disposal 338 C-Contract Labor 343 C-Dred Disso 351 B-Location/Pita/Roads 353 FEQ-Contract Labor 354 FeQ-Water Disposal 387 PEQ-Velto Disposal 387 PEQ-HR2 Weit Offset Frac 391 Fotal Intangible Costs 391 Fotal Intangible Costs 392 Contract Labor 392 Cottrect Labor 392 C			\$ 627,000,00 \$ 285,000,00 \$ 442,000,00 \$ 64,000,00 \$ 866,000,00 \$ 480,000,00 \$ 180,000,00 \$ 18,000,00 \$ 18,000,00 \$ 227,000,00 \$ 28,000,00 \$ 570,000,00 \$ 16,000,00 \$ 16,000,000 \$ 16,000,0000 \$ 16,000,0000 \$ 16,000,0000 \$ 16,0000,0000 \$ 16,0000,000			\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 627,000.00 \$ 285,000.00 \$ 285,000.00 \$ 442,000.00 \$ 64,000.00 \$ 886,000.00 \$ 886,000.00 \$ 16,000.00 \$ 16,000.00 \$ 16,000.00 \$ 16,000.00
C-Frac Proppart 309 C-Frac Proppart Transportation 310 C-Frac Proppart Transportation 310 C-Frac Proppart & Services 311 C-Water 312 C-Frac Surface Rentals 315 C-Contract Labor 326 C-Company Sprvsn 326 C-Contract Labor 327 C-Artificial Lft Instell 329 C-Artificial Lft Instell 329 C-Artificial Lft Instell 329 C-Contract Devocal 333 C-Trucking/ForkMrRig Mob 337 C-Artificial Lft Instell 329 C-Contract Labor 343 C-Droid Diesel 345 C-Drillout 346 SC-Drillout 346 PEO-Contract Labor 356 PEO-Contract Labor 374 PEO-Contract Labor 374 PEO-Flowback Crews & Equip 392 PC-HR2 Well Offset Frac 391 Total Intangible Costs 392 P-Production Casing/Liner 403 <t< td=""><td></td><td></td><td>\$ 285,000.00 \$ 442,000.00 \$ 64,000.00 \$ 866,000.00 \$ 16,000.00 \$ 16,000.00 \$ 16,000.00 \$ 16,000.00 \$ 3,227,000.00 \$ 88,000.00 \$ 570,000.00 \$ 16,000.00</td><td></td><td></td><td>\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$</td><td>\$ 285,000.00 \$ 442,000.00 \$ 64,000.00 \$ 886,000.00 \$ 480,000.00 \$ 16,000.00 \$ 16,000.00 \$ 227,000.00</td></t<>			\$ 285,000.00 \$ 442,000.00 \$ 64,000.00 \$ 866,000.00 \$ 16,000.00 \$ 16,000.00 \$ 16,000.00 \$ 16,000.00 \$ 3,227,000.00 \$ 88,000.00 \$ 570,000.00 \$ 16,000.00			\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$ 285,000.00 \$ 442,000.00 \$ 64,000.00 \$ 886,000.00 \$ 480,000.00 \$ 16,000.00 \$ 16,000.00 \$ 227,000.00
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2-Water 312 2-Water 315 2-Frac Surface Rentals 315 2-Contract Labor 325 2-Company Sprvan 326 2-Company Sprvan 327 2-Artificial Lift Install 329 2-Perf/Wireline Svc 331 2-Perf/Wireline Svc 331 2-Water Disposal 338 2-Ording Ordel Dissel 343 2-Ording Ordel Dissel 343 2-Dreid Dissel 343 2-Dreid Dissel 343 2-Dreid Dissel 345 2-Drillout 346 2-Drillout 346 2-Drouting Pris/Roads 353 PEO-Contract Labor 356 PEO-Contract Labor 374 PEO-Vater Disposal 387 PEO-Vater Disposal 387 PEO-Contract Labor 374 PEO-Vater Disposal 387 PEO-Vater Disposal 387 PEO-Contract Labor 374 PEO-Vater Disposal 387 PEO-Vat			\$ 866,000.00 \$ 480,000.00 \$ 16,000.00 \$ 16,000.00 \$ 227,000.00 \$ 68,000.00 \$ 570,000.00 \$ 16,000.00			\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 868,000.00 \$ 480,000.00 \$ 16,000.00 \$ 16,000.00 \$ 227,000.00
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-Contract Labor 325 -Company Sprvan 326 -Contract Sprvan 327 -Contract Sprvan 327 -Artificial Lift Install 329 -PerfWireine Svc 331 -Trucking/ForkMr/Rig Mob 337 -Mater Disposal 339 -Orated Disseel 343 -Dyed Disseel 343 -Dreid Disseel 345 -Drillout 346 -Dreid Disseel 345 -Dreid Oriset Labor 356 FEQFourtact Labor 374 2EQ-HR2 Welt Offset Frac 391 Text and Disposal 382 -Preduction Casing/Liner 342 -Preduction Casing/Liner 403 -Preduction Casing/Liner 405			\$ 16,000.00 \$ 16,000.00 \$ 227,000.00 \$ 88,000.00 \$ 570,000.00 \$ 16,000.00		······································	\$ <u>·</u> \$ <u>·</u> \$	\$ 16,000.00 \$ 16,000.00 \$ 227,000.00
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C-Contract Sprvan 327 C-Anfificial Lift Install 320 C-Turcking/Fortkif/Rig Mob 331 C-Turcking/Fortkif/Rig Mob 336 C-Continger Contract Listor 343 C-Dired Diseed 345 Continue Listor 346 TB-Location/Pita/Roads 353 FEQ-Contract Listor 356 FEQ-HR2 Weit Offset Frac 391 Fotal Intangible Costs 392 Fotal Intangible Costs 392 Sufface Casing 401 D-Intermed Casing/Liner 403 -Production Casing/Liner 403			\$ 227,000.00 \$ 68,000.00 \$ 570,000.00 \$ 16,000.00	· · · ·		5 -	\$ 227,000.00
C-Artificial Lift Instell 320 C-Artificial Lift Instell 321 C-Pert/Wireline Svc 331 C-Trucking/Fortk/It/Rig Mob 337 C-Trucking/Fortk/It/Rig Mob 337 C-Trucking/Fortk/It/Rig Mob 337 C-Water Disposal 338 C-Ontingency 343 C-Drillout 346 C-Drillout 345 C-Drillout 346 FB-Damagea/Right of Way 3511 TB-Location/Pita/Roads 353 PEC-Contract Labor 374 PEQ-Howback Crews & Equip 397 FocHR2, Well Offset Frac 391 Fotal Intangible Costs 392 PEQ-Flowback Crews & Equip 392 O-Intermed Ceg 402 -Production Casing/Liner 403			\$ 68,000.00 \$ 570,000.00 \$ 16,000.00				
2-Perf/Wireline Svc 331 2-Trucking/Forkit/Rig Mob 337 2-Trucking/Forkit/Rig Mob 337 2-Trucking/Forkit/Rig Mob 339 2-Contingency 343 2-Contingency 343 2-Drillout 346 1B-Lostion/PitaRoads 353 1B-Contract Labor 356 2-Contract Labor 367 2-Co-HR2 Well Offset Frac 391 7etQ-Harz Vell Offset Frac 391 7etal triangible Costs 392 2-Surface Casing 401 2-Intermed Ceg 402 2-Production Casing/Liner 403			\$ 570,000.00 \$ 16,000.00			1\$ 1	\$ 68,000.04
2-Trucking/Forklift/Rig Mob 337 2-Water Disposal 330 2-Water Disposal 330 2-Ordingency 343 2-Dyed Dissel 345 2-Dyed Dissel 345 2-Dyed Dissel 345 2-Dyed Dissel 345 2-Dred Dissel 345 18-Locatizet Labor 356 18-Contract Labor 356 18-Contract Labor 356 19-Contract Labor 374 19-Contract Labor 386 19-Contract Cabor 387 19-Contract Cabor 387 10-Contract Contract 387 10-Contract Contract 387 10-Contract Contract 387 10-Contract 20-Contract 387 10-Contract 38			\$ 16,000.00		-		
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Contingency 343 C.Dyd Diesel 345 C.Dyd Diesel 345 C.Dyd Diesel 345 IB-Damages/Right of Way 351 IB-Contract Labor 353 FEQ-Contract Labor 356 FEQ-Contract Labor 374 PEQ-Contract Labor 377 PEQ-Water Disposel 387 PEQ-HR2 Well Offset Frac 391 Fotal triangible Costs 392 PEQ-Flowback Crews & Equip 392 P-Surface Casing 401 P-Intermed Ceg 402 -Production Casing/Liner 403						\$ -	\$ 16,000.00
C-Dyed Diesel 345 C-Drillout 346 IB-Damages/Right of Way 351 IB-Location/Pita/Roads 353 IB-Contract Labor 356 PEQ-Contract Labor 374 PEQ-Contract Labor 374 PEQ-Contract Labor 374 PEQ-Water Disposal 387 Foch HR2 Woll Offset Frac 391 Fotal Intangible Costs 322 PEQ-Flowback Crews & Equip 382 >Sufface Casing 401 D-Intermed Cag 402 -Production Casing/Liner 403			\$ 61,000.00				\$ 61,000.00
C-Drillout 346 TB-Damages/Right of Way 351 TB-Ocstion/Prits/Roads 353 TB-Contract Labor 356 PEQ-Contract Labor 356 PEQ-Contract Labor 374 PEQ-HR2 Viel Offset Frac 391 rotal Intangible Costs PEQ-Flowback Crews & Equip 392 Surface Casing 401 D-Intermed Cag 402 D-Production Casing/Liner 403 Vellbed Equip 405		_	\$ 226,000.00			\$ •	\$ 226,000.00
Tet-Damages/Right of Way 351 TB-Location/Pita/Roads 353 TB-Contract Labor 356 PEQ-Contract Labor 374 PEQ-Contract Labor 374 PEQ-Contract Labor 374 PEQ-Water Disposal 387 PEQ-HR2 Weit Offset Frac 391 Fotal Intangible Costs 392 PEQ-HR2 Costs 392 PEQ-Flowback Crews & Equip 392 P-Surface Casing 401 D-Intermed Cag 402 -Production Casing/Liner 403		_	\$ 495,000.00	<u> </u>		5 -	\$ 495,000.00
Tel-Location/Pita/Roads 353 TB-Contract Labor 356 TB-Contract Labor 374 PEQ-Contract Labor 374 PEQ-Water Disposal 387 PEQ-Hitz Velil Offset Frac 391 Fotal Intangible Costs Fotal Intangible Costs 392 2-Surface Casing 401 2-Infermed Casing/Liner 402 2-Wellbed Equip 405			\$ 510,000.00				\$ 510,000.00
TB-Contract Labor 356 PEQ-Contract Labor 374 PEQ-Contract Labor 374 PEQ-Water Disposal 387 PEQ-HR2 Well Offset Frac 391 fotal Intangible Costs 92 PEQ-Flowback Crews & Equip 392 >Surface Casing 401 D-Intermed Ceg 402 O-Production Casing/Liner 403		-		\$ 2,000.		\$ -	\$ 2,000.00
PEQ-Contract Labor 374 PEQ-Contract Labor 387 PEQ-HR2 Well Offset Frac 391 Fotal Intangible Costs 1 fangible Costs 1 PEQ-Flowback Crews & Equip 392 >Surface Casing 401 D-Intermed Cag 402 -Production Casing/Liner 403 -Wellbeadt Equip 405				\$ 43,000.	00	\$ -	\$ 43,000.00
PEO-Water Disposal 387 PEO-HR2 Well Offset Frac 391 Fotal Intangible Costs Fangible Costs PEO-Flowback Crews & Equip 392 -Surface Casing 401 D-Infermed Cag 402 D-Production Casing/Liner 403 D-Wellhead Equip 405				\$ 184,000.			\$ 184,000.00
PEQHR2 Well Offset Frac 391 Total triangible Costs 392 Fangible Costs 392 PEQ-Flowback Crews & Equip 392 -Surface Casing 401 D-Intermed Ceg 402 -Production Casing/Liner 403 -Wellbead Equip 405					\$ 43,000.00		\$ 43,000.00
Fotal Intangible Costs Tangible Costs FGC-Flowback Crews & Equip 392 D-Surface Casing 401 -Intermed Cag 402 D-Production Casing/Liner 403 D-Wellhead Equip 405					\$ 203,000.00		\$ 203,000.00
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D-Surface Casing 401 D-Intermed Cag 402 D-Production Casing/Liner 403 D-Wellhead Equip 405	NO 23 THE APPROPRIATE STATES OF THE PARTY	Contract the state	The second second	And the state of the second	A PARTICIPAL OF THE PARTY IN A PARTY IN	Conferration and a second	sector many many stand
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D-Production Casing/Liner 403 D-Wellhead Equip 405		\$ 35,000.00					\$ 35,000.00
D-Production Casing/Liner 403 D-Wellhead Equip 405		\$ 323,000.00				\$ -	\$ 323,000.00
D-Wellhead Equip 405 C-Tubing 504		\$ 446,000.00				\$ -	\$ 446,000.00
C-Tubing 504		\$ 108,000.00					\$ 108,000.00
			\$ 79,000.00			\$ -	\$ 79,000.00
C-Wellhead Equip 505			\$ 43,000.00				\$ 43,000.00
18-Tanka 510				\$ 80,000.	00	\$.	\$ 80,000.00
B-Flowfines/Pipelines 511				\$ 30,000			\$ 30,000.00
B-Htr Trtr/Seprtr 512				\$ 185,000.			\$ 185,000.00
B-Electrical System/Equipment 513				\$ 119,000		5	\$ 119,000.00
C-Pckrs/Anchors/Hgrs 514			\$ 98,000.00			s -	\$ 98,000.00
B-Couplings/Fittings/Valves 515		1		\$ 204,000.	00		\$ 204,000.00
B-Pumps-Surface 521				\$ 25,000			\$ 25,000.00
B-Instrumentation/SCADA/POC 522			1	\$ 20,000			\$ 20,000.00
B-Miscellaneous 523			1	\$ 20,000.			\$ 20,000.00
B-Metera/Lacta 525				\$ 25,000.			\$ 25,000.00
B-Flares/Combusters/Emission 526		-					\$ 30,000.00
-Gas Lifl/Compression 527				\$ 20,000			\$ 38,000.00
EQ-Wellhead Equipment 531			\$ 38,000 on	\$ 30,000.			\$ 38,000.00 \$ 43,000.00
			\$ 38,000.00	\$ 30,000.		15	
over confine onere			1000		\$ 43,000.00		
Intel Cross Cost	\$ • \$ • •	\$ 912,000.00	1000		\$ 43,000.00		\$ 2,073,000.00
Intel Gross Cost Note: The above costs are estimates only. Ac		\$ 912,000.00	\$ 258,000.00	\$ 738,000.	\$ 43,000.00 00 \$ 165,000.00	\$	

COG Operating LLC

8y:

We approve: % Working Interest

Company: By:

Printed Name: Title: Date:

Date Prepared:

COG Operating LLC 8y:

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

Page 1 of 1

Well Name Rock Jelly Fed Com #761H SHL 210 FNL, 1055 FEL, OR UNIT A, 3-26S-29E BHL 200 FSL, 330 FEL, OR UNIT P, 15-26S-29E Formation WOLFCAMP A Legal 26S-29E-03 AFE Numbers

Prospect ATLAS 2629 State & County NEW MEXICO, EDDY Objective DRILL & COMPLETE Desth 25,300 TVD 10,100

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Face Propent Transportation 310 S 42.000.00 S S S Water 311 S 64.000.00 S <		309					\$							\$	285,000
Water 312 S 66,000.00 S S 1 Centract Labor 355 S \$ <td< td=""><td>-Frac Proppant Transportation</td><td>310</td><td></td><td></td><td></td><td></td><td>5</td><td>442,000.00</td><td><u> </u></td><td>_</td><td></td><td></td><td>-</td><td>\$</td><td>442.000</td></td<>	-Frac Proppant Transportation	310					5	442,000.00	<u> </u>	_			-	\$	442.000
Water 312 S 8 86,000.00 S S I Contract Labor 335 S S 16,000.00 S S S I Contract Labor 335 S S 16,000.00 S S S S C S S S S S C S C S C S C S C S C S C S S S S S	Fuel Delivery & Services	311					\$	64,000.00				\$	-	\$	64,000
Frac Gunda Contract Labor 351 Image: Second Contract Labor S S S S S Contract Labor S	Water	312					\$	866,000.00				\$	•	\$	866,000
Company Sprivin 326 Image: Sprivin Sprivin 327 Spriving Spriving </td <td>Frac Surface Rentals</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>\$</td> <td>480,000.00</td> <td></td> <td></td> <td></td> <td>\$</td> <td>-</td> <td>\$</td> <td>480,000</td>	Frac Surface Rentals						\$	480,000.00				\$	-	\$	480,000
Contract Sprvn 327 S												\$	-	\$	16,000
Ardical Lineal 320 \$ Control Labor\$\$												\$	•	\$	16,000
Pert/Wrietie Svo 331 \$ 57,000,00 \$ - <td>-Contract Sprvsn</td> <td></td> <td>\$</td> <td>-</td> <td>\$</td> <td>227,000</td>	-Contract Sprvsn											\$	-	\$	227,000
Tracking/PortAil/Rig Mob 337 \$ \$ \$ \$ \$ \$ Contingency 339 \$													-	\$	68,000.
Water Disposal 339 \$ \$ \$ 1000.00 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$														- w	570,000
Contingency 343 . \$ 28,000,00 . \$.	-Trucking/Forklift/Rig Mob				<u> </u>							\$	-		16,000
Dyed Desel 345 S \$ <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td><u> </u></td><td></td><td></td><td></td><td></td><td></td><td>61,000.</td></t<>									<u> </u>						61,000.
Drilout 346 \$ 510,000.00 \$ 2,000.00 \$					<u> </u>				<u> </u>				•		226,000
8-0amages/Right of Way 351 5 \$ </td <td></td> <td></td> <td></td> <td></td> <td><u> </u></td> <td></td> <td></td> <td></td> <td><u> </u></td> <td></td> <td>·</td> <td></td> <td>-</td> <td></td> <td>495.000</td>					<u> </u>				<u> </u>		·		-		495.000
B-Locaton/PlayRoads \$33 \$ \$ \$ 43,000.00 \$ \$ \$ 6-OrtnatLabor 356 \$ \$ 184,000.00 \$							\$	510,000.00		0.000.00	-				510,000
3-Contract Labor 356 \$ \$ 184,000.00 \$<					<u> </u>				5					<u> </u>	2,000
EO-Contract Labor 374 S 4300000 \$ <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>43,000</td>															43,000
CO-Weiter Disposal 347 Image Sector \$ 203,000,00 \$ - \$ 3 EQ-HRZ Weit Ofisel Frac 391 - \$ - \$ 21,000,00 \$ - \$ 3 EQ-HRZ Weit Ofisel Frac 391 - \$ 4,377,000,00 \$ 0,599,000,00 \$ 229,000,00 \$ 287,000,00 \$ - \$ 11/, anglible Costs - \$ - \$ 4,377,000,00 \$ 0,599,000,00 \$ 229,000,00 \$ - \$ 11/, anglible Costs - \$ 323,000,00 - \$ 122,000,00 \$ -									├	184,000.00	* 43,000,00				184,000
EQ-HRZ Well Offsel Frac 391 \$ <td></td> <td></td> <td></td> <td>· · · · ·</td> <td><u> </u></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>•</td> <td></td> <td>43,000</td>				· · · · ·	<u> </u>								•		43,000
stal Intangible Costs \$ \$ \$ \$ \$ \$ \$ \$ 11,4 angible Costs 5 229,000,00 \$ 229,000,00 \$ 229,000,00 \$ \$ \$ 11,4 angible Costs 5 322,000,00 \$ <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>203,000</td></td<>															203,000
Angible Cests S 122,000,00 \$ \$ Surface Casing 401 \$ 35,000,00 \$ </td <td></td> <td>331</td> <td></td> <td>· Television - Television</td> <td></td> <td>77 000 00</td> <td></td> <td>0 000 000 00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>21,000</td>		331		· Television - Television		77 000 00		0 000 000 00							21,000
CO-Flowback Crews & Equip 392 \$ 122,000.00 \$ - \$ Surface Casing 401 \$ 35,000.00 \$ - \$ - \$ Surface Casing 401 \$ 35,000.00 \$ - \$ - \$ Production Casing/Liner 403 \$ 446,000.00 \$ - \$ - \$ Weilhead Equip 405 \$ 108,000.00 \$ - \$ - \$ Tubing 504 \$ 108,000.00 \$ - \$ - \$ Tubing 504 \$ 108,000.00 \$ - \$ \$ \$ Tubing 504 \$ 108,000.00 \$ - \$ \$ \$ Affanks 510 \$ 30,000.00 \$ - \$ \$ \$ \$ \$ J-Provinies/Pipelines 511 \$ 30,000.00 \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ </td <td>ann mennikunn cones</td> <td>10110910</td> <td></td> <td>•</td> <td>9 4,3</td> <td>177,000.00</td> <td>•</td> <td>0,389,000.00</td> <td>•</td> <td>229,000.00</td> <td>\$ 207,000.00</td> <td>•</td> <td>- 12 - 12 - 11 - 12 - 12 - 12 - 12 - 12</td> <td>•</td> <td>11,472,000.</td>	ann mennikunn cones	10110910		•	9 4,3	177,000.00	•	0,389,000.00	•	229,000.00	\$ 207,000.00	•	- 12 - 12 - 11 - 12 - 12 - 12 - 12 - 12	•	11,472,000.
CO-Flowback Crews & Equip 392 \$ 122,000.00 \$ - \$ Surface Casing 401 \$ 35,000.00 \$ - \$ - \$ Surface Casing 401 \$ 35,000.00 \$ - \$ - \$ Production Casing/Liner 403 \$ 446,000.00 \$ - \$ - \$ Weilhead Equip 405 \$ 108,000.00 \$ - \$ - \$ Tubing 504 \$ 108,000.00 \$ - \$ - \$ Tubing 504 \$ 108,000.00 \$ - \$ \$ \$ Tubing 504 \$ 108,000.00 \$ - \$ \$ \$ Affanks 510 \$ 30,000.00 \$ - \$ \$ \$ \$ \$ J-Provinies/Pipelines 511 \$ 30,000.00 \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ </td <td>Ingible Costs</td> <td>200 1022</td> <td>0.04/01/01/2020</td> <td>CONTRACTOR AND INCOME.</td> <td>Children Maria</td> <td>TO strates</td> <td></td> <td></td> <td></td> <td>ALC: NOT A REAL PROPERTY.</td> <td>And the same the second</td> <td>and bar</td> <td></td> <td>_</td> <td></td>	Ingible Costs	200 1022	0.04/01/01/2020	CONTRACTOR AND INCOME.	Children Maria	TO strates				ALC: NOT A REAL PROPERTY.	And the same the second	and bar		_	
Surface Casing 401 \$ 35,000.00 \$ 0		392								1	\$ 122,000,00	\$		5	122,000
Intermed Csg 402 \$ 323,000.00 \$ - \$ Production Casing/Liner 403 \$ 446,000.00 \$ - \$ Production Casing/Liner 403 \$ 446,000.00 \$ - \$ Wellhead Equip 405 \$ 108,000.00 \$ - \$ Tubing 504 \$ 108,000.00 \$ - \$ Wellhead Equip 505 \$ 43,000.00 \$ - \$ 3-Tanks 510 \$ 43,000.00 \$ - \$ 3-Tanks 510 \$ 30,000.00 \$ - \$ 3-Tanks 511 \$ 80,000.00 \$ - \$ 3-Tanks 511 \$ \$ 43,000.00 \$ - \$ 3-Tanks \$ 100 \$ 105,000.00 \$ - \$ 3-Tanks \$ 100 \$ - \$ \$ 3-Electrical System/Equipment \$12 \$ 185,000.00 \$ - \$ 3-Electrical System/Equipment \$13 \$ \$ 20,000.00 \$ - \$ 3-Pumps-Surface \$ \$ 201,000.00 \$ - \$ \$ \$ 3-Instrumentation/SCADA/PCC \$ \$ 22 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$					s	35,000.00			<u> </u>		- 144,000.00				35,000
Production Casing/Liner 403 \$ 446,000.00 \$ - <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td>t</td><td></td><td></td><td></td><td></td><td></td><td>323.000</td></th<>							-		t						323.000
Wellhead Equip 405 \$ 108,000.00 \$ 79,000.00 \$ - \$ Tubing 504 \$ 79,000.00 \$ - \$ 3-Tanks 510 \$ 43,000.00 \$ - \$ 3-Tanks 510 \$ 43,000.00 \$ - \$ 3-Tanks 510 \$ 43,000.00 \$ - \$ 3-Tanks 510 \$ 30,000.00 \$ - \$ 3-Flowines/Pipelines \$11 \$ \$ 30,000.00 \$ - \$ 3-Flowines/Pipelines \$11 \$ \$ 30,000.00 \$ - \$ 3-Flowines/Pipelines \$11 \$ \$ 30,000.00 \$ - \$ 3-Flowines/Pipelines \$11 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$							-		<u> </u>						446,000
Tubing 504 \$ 79,000.00 \$ - \$ Wellhead Equip 605 \$ 43,000.00 \$ - \$ Flowines/Pipelines 510 \$ 30,000.00 \$ - \$ J-Flowines/Pipelines 511 \$ 30,000.00 \$ - \$ J-Plowines/Pipelines 511 \$ \$ 30,000.00 \$ - \$ J-Elowines/Pipelines 511 \$ \$ 30,000.00 \$ - \$ J-Electrical System/Equipment 513 \$ \$ 185,000.00 \$ - \$ J-Electrical System/Equipment 513 \$ \$ 98,000.00 \$ - \$ J-Couplings/Filtings/Valves 515 \$ 204,000.00 \$ - \$ J-Pumps-Surface 521 \$ 20,000.00 \$ - \$ J-Instrumentation/SCADA/PCC 522 \$ 20,000.00 \$ - \$ J-Instrumentation/SCADA/PCC 523 \$ 30,000.00 \$ - \$ J-Blates/Lacts 5 38,000.00 \$ - \$ \$ J-Instrumentation/SCADA/PCC 523 \$ - \$ \$ J-Instrumentation/SCADA/PCC 525 \$ - \$ \$ J-Maters/Lacts 525 \$ 38,000.00<									<u> </u>						108,000
Wellhead Equip 505 \$ 43,000.00 \$					1 ·		s	79,000.00	<u> </u>						79,000
1-Tanks 510 \$ 80,000,00 \$ - \$ I-Rowlnes/Pipelines 511 \$ 30,000,00 \$ - \$ I-Rowlnes/Pipelines 511 \$ 185,000,00 \$ - \$ I-Rowlnes/Pipelines 511 \$ 185,000,00 \$ - \$ I-Rowlnes/Pipelines 512 \$ 185,000,00 \$ - \$ I-Electrical System/Equipment 513 \$ \$ 98,000,00 \$ - \$ I-Coupling/Fittings/Valves 514 \$ \$ 98,000,00 \$ - \$ I-Oupling/Fittings/Valves 515 \$ \$ 204,000,00 \$ - \$ I-Pumps-Surface 521 \$ \$ 20,000,00 \$ - \$ I-Instrumentation/SCADAPOC 522 \$ \$ 20,000,00 \$ - \$ I-Instrumentation/SCADAPOC 522 \$ \$ 20,000,00 \$ - \$ I-Miscellaneous 525 \$ \$ 20,000,00 \$ - \$ I-Miscellaneous 526 \$ \$ 30,000,00 \$ - \$ Gas Lift/Compression 527 \$ \$ 38,000,00 \$ - \$ Co-Wellhead Equipment 531 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$				i	1		Š	43,000.00	<u> </u>						43,000
AFTOWINGs/Pipelines 511 S 30,000,00 \$ \$ 2-HW Trit/Seprin 512 \$ 185,000,00 \$ \$ \$ 2-HW Trit/Seprin 512 \$ 185,000,00 \$ \$ \$ 2-HW Trit/Seprin 513 \$ 185,000,00 \$ \$ \$ 2-Couplings/Handbor/SEAges 514 \$ 98,000,00 \$ \$ \$ \$ 2-Couplings/Hittings/Alvives 515 \$ 20,000,00 \$				i	1		-		5	80.000.08					80,000
Htt Tri/Seprir 512 \$ 185,000,00 \$ - \$ Electrical System/Equipment 513 \$ 185,000,00 \$ - \$ Electrical System/Equipment 513 \$ 38,000,00 \$ - \$ Electrical System/Equipment 514 \$ 98,000,00 \$ - \$ Electrical System/Equipment 514 \$ 98,000,00 \$ - \$ Electrical System/Equipment 515 \$ 204,000,00 \$ - \$ Pumpa-Surface 521 \$ 20,000,00 \$ - \$ Instrumentation/SCADA/POC 522 \$ 20,000,00 \$ - \$ Instrumentation/SCADA/POC 522 \$ 20,000,00 \$ - \$ Instrumentation/SCADA/POC 522 \$ \$ 20,000,00 \$ - \$ Instrumentation/SCADA/POC 525 \$ \$ 30,000,00 \$ - \$ Instrumentation/SCADA/POC 526 \$ \$ 30,000,00 \$ - \$ Instrumentation/SCADA/POC 526 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$									Ś					<u> </u>	30,000
Electrical System/Equipment \$13 \$ 119,000.00 \$\$ Pcdrg/AnchorsPigrs 514 \$ 98,000.00 \$\$ \$\$ Pcdrg/AnchorsPigrs 515 \$ 98,000.00 \$\$ \$\$ Pumps-Surface 521 \$ 204,000.00 \$\$ \$\$ Instrumentation/SCADA/POC 522 \$\$\$ \$\$ \$\$ Instrumentation/SCADA/POC 522 \$\$\$\$ \$\$ \$\$ Instrumentation/SCADA/POC 522 \$\$\$\$\$ \$\$ \$\$\$ Instrumentation/SCADA/POC 522 \$\$\$\$\$					i							Š	-		185,000
PetryAnchoreHigrs 514 \$ 98,000.00 \$ 24,000.00 \$ - \$ \$ -					1										119,000
Couplings/Fittings/Valves 515 \$ 204,000.00 \$ - \$ \$ -Pumps-Surface 521 \$ 25,000.00 \$ - \$ \$ -Instrumentation/SCADA/POC 522 \$ 20,000.00 \$ - \$ \$ -Miscellaneous 523 \$ 20,000.00 \$ - \$ \$ -Miscellaneous 523 \$ 20,000.00 \$ - \$ \$ -Miscellaneous 525 \$ 30,000.00 \$ - \$ \$ -Miscellaneous 525 \$ 30,000.00 \$ - \$ \$ -Flares/Combusters/Emission 526 \$ 30,000.00 \$ - \$ \$ Gas Lift/Compression 527 \$ 38,000.00 \$ - \$ \$ Q-Wellhead Equipment 531 \$ \$ 31,000.00 \$ - \$ \$					1		\$	98,000.00	1					· ·	98,000
Pumps-Surface \$21 \$					1				\$	204,000.00					204,000
Instrumentation/SCADA/POC 522 \$<					Ι				\$						25,000
I-Miscellaneous 523 \$ \$ 20,000,00 \$ - \$ I-Miscellaneous 525 \$ \$ \$ 25,000,00 \$ - \$ I-Miscellaneous 525 \$ \$ \$ 30,000,00 \$ - \$ Gas Lift/Compression 527 \$ \$ 38,000,00 \$ - \$ CQ-Wellhead Equipment 531 \$					1				\$				-		20,000.
Meters/Lacts 525 \$		523							\$				-		20,000
Flares/Combusters/Emission 526 \$ 30,000.00 \$ - \$ Gas Lift/Compression 527 \$ 38,000.00 \$ - \$ C2-Wellhoad Equipment 531 \$ 43,000.00 \$ - \$ tail Tangible Costs \$ - \$ 912,000.00 \$ 258,000.00 \$ 185,000.00 \$ - \$ 2,000.00	-Meters/Lacts	525							\$						25,000
Gas Lift/Compression 527 \$ 38,000.00 \$ - \$ \$ - \$ CQ-Wellhead Equipment 531 \$ 43,000.00 \$ 43,000.00 \$ - \$ rengible Costs \$ - \$ 912,000.00 \$ 258,000.00 \$ 185,000.00 \$ - \$ 2,															30,000
C2-Wellhead Equipment 531 \$ 43,000.00 \$ - \$ Val Tangible Costs \$ - \$ 912,000.00 \$ 258,000.00 \$ 738,000.00 \$ - \$ 2,000.00 \$ - \$ 2,000.00 \$ 165,000.00 \$ - \$ 2,000.00 \$ 165,000.00 \$ - \$ 2,000.00 \$ 165,000.00 \$ - \$ 2,000.00 \$ 165,000.00 \$ - \$ 2,000.00 \$ 165,000.00 \$ - \$ 2,000.00 \$ 165,000.00 \$ - \$ 2,000.00 \$ - \$ 2,000.00 \$ 165,000.00 \$ - \$ 2,000.00 \$ - \$ 2,000.00 \$ - \$ 2,000.00 \$ - \$ 2,000.00 \$ - \$ 2,000.00 \$ - \$ 2,000.00 \$ 165,000.00 \$ <td></td> <td>527</td> <td></td> <td></td> <td></td> <td></td> <td>\$</td> <td>38,000.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>38,000</td>		527					\$	38,000.00							38,000
tel Tanglible Costs \$ - \$ 912,000.00 \$ 258,000.00 \$ 738,000.00 \$ 185,000.00 \$ - \$ 2,0											\$ 43,000.00				43,000
		251022	\$ 35-30 Million 16.	 200024/2222940 7/2 	\$ 9	12,000.00	\$	258,000.00	\$	738,000.00		\$	and the second second		2,073,000
tal Gross Cost \$ - \$ - \$ 5,289,000.00 \$ 6,857,000.00 \$ 967,000.00 \$ 432,000.00 \$ - \$ 13,	tal Gross Cost	C()(herbeite	Sectories - 23	\$ NAMES AND AND A 1987	\$ 5,2	89,000.00	\$	6.857,000.00	\$	967,000.00	\$ 432,000.00	\$ 13.2	NO.P. GRANDA TO	\$	13,545,000.

COG Operating LLC

By:

We approve: % Working Interest

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.

COG Operating LLC

Date Prepared:

<u> 8y:</u>

Well Name Rock Jelly Fed Com #702H SHL 210 FNL, 1065 FEL, OR UNIT A, 3-26S-29E BHL 200 FSL, 1485 FEL, OR UNIT O, 15-26S-29E Formation WOLFCAMP A Legal 26S-29E-03 AFE Numbers

Prospect ATLAS 2628 State & County NEW MEXICO, EDDY Objective DRILL & COMPLETE Desth 25,300 TVD 10,100

ost Description	Code PreSpuc	d (PS)] Pre-Set Casing(PC)	Drilling (DR)	Completions (C) Tank Bity Constrctn(TB	Pmpq Equip (PEQ)	Revision	11
Ingible Costs	and a second sec	and a spine the second second second		The edge of	and at the set of the set of the set of the set	THE REAL PROPERTY OF	a activity and the train	ALCONG CONTRACTO
ctn/Pits/Roads	205		\$ 136,000.00		and the second based from		<u>s</u> - s	136,00
rilling Overhead	206		\$ 13,000.00	<u> </u>			\$. \$	13,00
aywork Contract	209		\$ 953,000.00	l			5 - 5	953,00
rectional Drlg Services	210		\$ 456,000.00				5 - 5	456,00
el & Power	211		\$ 203,000.00				S - S	203,00
ater	212		\$ 108,000.00				5 - 5	108,00
ts	213		\$ 151,000.00				5 - 5	151,0
ud & Chemicals	214		\$ 361,000.00	1			5 - 5	361,0
ement Surface	217		\$ 28,000.00				\$ - \$	28,0
ement Intermed	218		\$ 107,000.00		· · · · · · · · · · · · · · · · · · ·		\$ - 15	107,0
rod-2nd Int Cmt	219		\$ 158,000.00					158,0
loat Equipment & Centralizers	221		\$ 86,000.00					
	222							86.0
sg Crews & Equip							5 - 5	93,0
ontraci Labor	225		\$ 10,000.00				<u>s - s</u>	10,0
ompany Sprvsn	226		\$ 73,000.00	<u> </u>		1	<u> </u>	73,0
contract Sprvsn	227		\$ 171,000.00			1.	5 - 5	171,0
stg Csg/Tbg	228		\$ 58,000.00				5 - 5	58,0
lud Logging Unit	229		\$ 65,000.00	1			5 - 5	65,0
tentals-Surface	235		\$ 281,000.00			· · · · · · · · · · · · · · · · · · ·	<u>s</u> - s	281,0
entals-Subsric	236		\$ 131,000.00				5 . 5	131.0
rucking/Forklift/Rig Mob	237		\$ 201,000.00	l	1		s - s	201,0
/elding Services	238		\$ 5,000.00					
					· · · · · · · · · · · · · · · · · · ·		<u> </u>	5,0
ontingency	243		\$ 88,000.00				<u>s</u>	88,0
nvmmtl/Cisd Loop	244		\$ 441,000.00				<u>s - s</u>	441,0
Vellbore Frac Prep	304			\$ 127,000.0			5 - \$	127,0
ctn/Pits/Roads	305			\$ 16,000.0	0		s s	16,0
Completion OH	306		1	\$ 23,000.0	0		\$ - \$	23,0
rac Equipment	307			\$ 1,464,000.0		·	<u>š</u> - iš	1,464.0
rac Chemicals	308		l	\$ 627,000.0			s - is	627,0
rac Proppant	309			\$ 285,000.0			s - 15	
								285,0
rac Proppant Transportation	310			\$ 442,000.0			\$	442,0
uel Delivery & Services	311			\$ 64,000.0			s - s	64,00
Vater	312			\$ 866,000.0			<u> </u>	866,00
rac Surface Rentals	315			\$ 480,000.0	0		\$ - \$	480,0
Contract Labor	325			\$ 16,000.0	0		\$ - 5	16,0
Company Sprvsn	326			\$ 16,000.0			<u>s</u> - Is	16,0
Contract Sprvsn	327			\$ 227,000.0			\$. \$	227,0
Artificial Lift Install	329			\$ 68,000.0			\$. \$	68,0
er/Wireline Svc	331							
	337						\$ - \$	570,0
Trucking/Forklift/Rig Mob				\$ 16,000.0			S - S	16,0
Nater Disposal	339		L	\$ 61,000.0			\$ - 5	61,00
Sontingency	343			\$ 226,000.0			S - S	226,00
lyed Diesel	345			\$ 495,000.0	0		S = S	495,0
Drillout	346			\$ 510,000.0	0		\$ 5	510,00
Damages/Right of Way	351		1		\$ 2,000.00		\$ - 5	2,0
Location/Pits/Roads	353				\$ 43,000.00	<u> </u>	<u>s</u>	43,0
Contract Labor	356				\$ 184,000.00			
2-Contract Labor	374		ł		3 184,000.00	E (2.000.00		184,0
2-Contract Labor				<u> </u>		\$ 43,000.00		43,0
2-Water Disposal	387		ļ			\$ 203,000.00		203,0
2-HRZ Well Offsel Frac	391		5 C			\$ 21,000.00	s - s	21,0
el Intengible Costs	Charles States	10 0.00 S HOLDWARD BO 100	\$ 4,377,000.00	\$ 6,599,000.0	0 \$ 229,000.00	\$ 267,000.00	5	11,472,0
gible Costs	Service and the second	And the second s		2500	PRINTER RATE REALIZING	And the state of the state of the state of the	a superior of the second second second	the second second
2-Flowback Crews & Equip	392	1	T	1	1	\$ 122,000.00	\$ - \$	122,0
urface Casing	401		\$ 35,000.00			- 122,000.00	s - s	35.0
	402				- /			
termed Csg			\$ 323,000.00			<u>-</u> ·	\$ - \$	323,0
roduction Casing/Liner	403		\$ 446,000.00	·			<u>s - s</u>	446,0
/ellhead Equip	405		\$ 108,000.00				<u>s</u> s	108,0
ubing	504			\$ 79,000.0			s <u>s</u> s	79,0
Vellhead Equip	505			\$ 43,000.0			\$ - \$	43,0
Tanks	510				\$ 80,000.00		S - S	80,0
Flowlines/Pipelines	511				\$ 30,000.00		5 - 5	30,0
Htr Trtr/Seprtr	512		1	Î	\$ 185,000.00		s - s	185,0
lectrical System/Equipment	513	1	l		\$ 119,000,00	· · · · · · · · · · · · · · · · · · ·	5 5	119,0
ckrs/Anchors/Hgrs	514			\$ 98,000.0				
			-	\$ 98,000.0			\$ \$	98,0
Couplings/Fittings/Valves	515				\$ 204,000.00		<u>s</u> - s	204,0
Pumps-Surface	521				\$ 25,000.00		<u>s</u> - s	25,0
instrumentation/SCADA/POC	522				\$ 20,000.00		s - s	20,0
Miscellaneous	523			1	\$ 20,000.00		S - S	20,0
Meters/Lacts	525	1	i		\$ 25,000.00	j	\$ \$	25.0
Flares/Combusters/Emission	526		i	i	\$ 30,000.00		5 5	30,0
as Lift/Compression	527			\$ 38,000.0		<u> </u>		
				38,000.0	<u> </u>		<u>s s</u>	38,0
2-Wellhead Equipment	531					\$ 43,000.00		43.0
		11.04 1 C 1253 (2007) (2017)	\$ 912,000,00	\$ 258,000.0	0 \$ 738,000.00	\$ 165,000.00	5	2,073,0
al Tangible Costs	CONTRACTOR A CONTRACTOR		\$ \$12,000.00	\$ 258,000.0	0 8 130,000.00		· · · · · · · · · · · · · · · · · · ·	A,010,0

\$ 5,289,000.00 \$ 6,857,000.00 \$ 967,000.00 \$ 432,000.00 \$ Note: The above costs are estimates only. Actual costs will be billed as incurred.

COG Operating LLC

Ву

We approve: % Working Interest

Company: By:

Printed Name: Title: Date:

Date Prepared: COG Operating LLC

By:

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

Weil Name Rock Jelly Fed Com #703H SHL 350 FNL, 1530 FWL, OR UNIT C, 3-26S-29E BHL 200 FSL, 2630 FWL, OR UNIT N, 15-26S-29E Formation WOLFCAMP Legal 26S-29E-03 AFE Numbers

Prospect ATLAS 2629 State & County NEW MEXICO, EDDY Objective DRILL & COMPLETE Depth 25,300 TVD 10,100

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TB-Flares/Combusters/Emission 526 \$ <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>25,000.00</td></t<>							1								25,000.00
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	Total Gross Cost	Start and	\$ 5015500 - 92	\$ (7-61)(01-58)(6-16)	\$	5,289,000.00	\$	6,857,000.00	\$	967,000.00	\$ 432,000.00	\$	(FCR08E032.8280871 + 38)	\$	13,545,000.00
Note: The above costs are estimates only. Actual costs will be billed as incurred.	Note: The above costs are estima	les only. A	ctual costs will he	billed as incurred.	_										

COG Operating LLC

We approve: % Working Interest

Company: By:

By:

Printed Name: Title:

Date:

Date Prepared: COG Operating LLC

By:

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

Well Name Rock Jelly Fed Com #704H SHL 350 FNL, 1500 FWL, OR UNIT C, 3-26S-29E BHL 200 FSL, 1530 FWL, OR UNIT N, 15-26S-29E Formation WOLFCAMP A Legal 26S-29E-03 AFE Numbers

Prospect ATLAS 2629 State & County NEW MEXICO, EDDY Objective DRILL & COMPLETE Depth 25,300 TVD 10,100

at Description	Code	Prespud (PS)	Pre-Set Casing(PC)		Drilling (DR)	C	ompietions (C)	Tank	Bity Constrcts(TB)	Pmpq Equip (PEQ)	Revision		T
.ctr/Pits/Roads	205			5	136,000.00	-		-			2 2	\$	136,000
Drilling Overhead	206			ŝ	13,000.00						\$ -	\$	13,000
Daywork Contract	209			Ś	953,000.00						\$.	S	953,000
Directional Orlg Services	210			s	456,000.00						s .	Ś	456,000
uel & Power	211			\$	203,000.00						\$ -	\$	203,000
Vater	212			\$	108,000.00						\$.	\$	108,000
3its	213			\$	151,000.00				1		\$ -	\$	151,000.
Aud & Chemicals	214			\$	361,000.00						\$ -	\$	361,000
Cement Surface	217			\$	28,000.00						\$.	\$	28,000
Cement Intermed	218			\$	107,000.00						\$ -	\$	107,000
Prod-2nd Int Crnt	219			\$	158,000.00				l l		\$ -	\$	158,000
loat Equipment & Centralizers	221			\$	86,000.00						<u> </u>	\$	86,000
Csg Crews & Equip	222			\$	93,000.00						\$ -	\$	93,000
Contract Labor	225			\$	10,000.00						\$ -	\$	10,000
Company Sprvsn	226			5	73,000.00						\$ -	\$	73,000
ontract Sprvsn	227			\$	171,000.00						\$ -	\$	171,000
stg Csg/Tbg	228			\$	58,000.00						\$ -	\$	58,000
lud Logging Unit	229			\$	65,000.00						\$ -	\$	65,000
entals-Surface	235			\$	281,000.00						\$ -	\$	281,000
entals-Subsrfc	236			\$	131,000.00						\$ -	\$	131,000
rucking/Forklift/Rig Mob	237			\$	201,000.00						\$ -	\$	201,000
/elding Services	238			\$	5,000.00						\$ +	\$	5,000
ontingency	243			\$	88,000.00							\$	88,000
nymmtl/Clsd Loop	244			\$	441,000.00							\$	441,000
ellbore Frac Prep	304					\$	127,000.00				\$ -	\$	127,000
ctn/Pits/Roads	305					\$	16,000.00				\$ -	\$	16,000
ompletion OH	306					ŝ	23,000.00				\$.	\$	23,000
ac Equipment	307					\$	1,464,000.00				\$ -	\$	1,464,000
rac Chemicals	308					\$	627,000.00					\$	627,000
ac Proppant	309					\$	285,000.00				\$.	\$	285,000
ac Proppant Transportation	310					\$	442,000.00		1		s -	Š	442,000
el Delivery & Services	311					\$	64,000.00				\$ -	\$	64,000
ater	312					Ś	866,000.00					\$	866,000
ac Suríace Rentals	315					ŝ	480,000.00				s .	ŝ	480,000
ontract Labor	325					ŝ	16,000.00					s	16,000
ompany Sprvsn	326					Š	16,000.00				s .	\$	16,000
ontract Sprvsn	327					Š	227,000.00				5 .	S	227,000
rtificial Lift Install	329					\$	68,000.00	-				\$	68,000
erf/Wireline Svc	331					Š	570,000.00				s .	\$	570,000
ucking/Forklift/Rig Mob	337					ŝ	16,000.00				\$	s	16,000
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Contract Labor	356					-		ŝ	184.000.00			ŝ	184,000
-Contract Labor	374							-	104,000.00	\$ 43,000.00	•	\$	43,000
-Water Disposal	387					-				\$ 203,000.00		\$	203,000
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Nihead Equip	405			\$	108,000.00						\$ ÷	\$	108,00
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Imps-Surface	521							\$	25,000.00		\$ -	\$	25,00
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iscellaneous	523							\$	20,000.00			\$	20.00
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ares/Combusters/Emission	526							Š	30,000.00		<u>s</u> _	\$	30,00
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COG Operating LLC

By:

We approve: % Working Interest

Company: By:

Printed Name: Title: Date:

Date Prepared: COG Operating LLC

By:

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

STATE OF NEW MEXICO DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES OIL CONSERVATION DIVISION

APPLICATION OF COG OPERATING LLC FOR COMPULSORY POOLING, EDDY COUNTY, NEW MEXICO

CASE NO. 21344

VERIFIED STATEMENT OF WILL NEELY

Will Neely, being duly sworn upon his oath, deposes and states:

1. My name is Will Neely. I have been a geologist with COG Operating LLC ("COG") since 2019. I am familiar with the application filed by COG in this case and I have conducted a geologic study of the lands in the subject area.

2. I have not previously testified before the New Mexico Oil Conservation Division ("Division"). My experience and qualifications are as follows:

I graduated from Oklahoma State University with both a Bachelor of Science in Geology in 2017 and my Master of Science in Geology in 2018 where my graduate research focused primarily on unconventional reservoirs in the "STACK play." In January 2019, I began working for COG as a geologist in the Delaware Basin where I still work today. I have one accepted publication in the Society of Exploration Geophysicists' "Interpretation" publication and am a member of the American Association of Petroleum Geologists and the Oklahoma State University School of Geology Advisory Board.

3. COG is targeting the Wolfcamp formation with its proposed Rock Jelly Federal Com 701H, 702H, 703H, 704H, and 705H wells (collectively the "Wells").

4. Attachment A is a locator map displaying COG's acreage in yellow for the Wolfcamp formation. Existing producing wells in the Wolfcamp A Shale interval are represented by solid lines. The approximate wellbore paths for the Wells are marked by dashed lines.

5. Attachment B is a subsea structure map that I prepared for the top of the Wolfcamp formation that is representative of the targeted interval within the Wolfcamp A interval. The data points are indicated by crosses. I used the Wolfcamp structure because it is a reliable regional marker and the target intervals lie near this marker. The approximate wellbore paths for the proposed Wells are depicted by dashed lines. The map shows that the formation is dipping to the east-southeast in this area.

BEFORE THE OIL CONSERVATION DIVISION Santa Fe, New Mexico Case No. 21344 Exhibit No. B Submitted by: <u>COG OPERATING LLC</u> Hearing Date: <u>October 22, 2020</u> 6. I do not observe any faulting, pinch-outs, or other geologic impediments to developing the targeted intervals with horizontal wells in this area.

7. Attachment C overlays a cross-section line consisting of five wells penetrating the Wolfcamp formation that I used to construct a stratigraphic cross-section from A to A'. I consider these well logs to be representative of the geology in the area.

8. Attachment D is a stratigraphic cross-section using the representative wells depicted on Attachment C. Each well in the cross-section contains gamma ray, resistivity, and porosity logs. The proposed target interval in the Wolfcamp formation are labeled on the exhibit. The cross-section demonstrates that the targeted intervals are continuous across the proposed spacing unit.

9. In my opinion, the stand-up orientation of the proposed wells is the preferred orientation for horizontal well development in this area and is appropriate to efficiently and effectively develop the subject acreage.

10. Based on my geologic study, the targeted interval underlying the subject area is suitable for development by horizontal wells, and the acreage comprising the proposed spacing unit will contribute, more-or-less, equally to the production from the wellbores.

11. In my opinion, Granting COG's applications and denying WPX's application is in the best interest of conservation, will prevent waste, and protect correlative rights.

12. COG Exhibit No. 2 and Attachments A through D were either prepared by me or compiled under my direction and supervision.

THIS CONCLUDES WILL NEELY'S STATEMENT.

VERIFICATION

))ss.

)

STATE OF TEXAS

COUNTY OF MIDLAND

Will Neely, being duly sworn upon his oath, deposes and states that: He is a geologist for COG Operating LLC; he is authorized to make this verification on its behalf; he has read the foregoing statement, and knows the contents thereof; and the same is true and correct to the best of his knowledge, information, and belief.

Will Neely

SUBSCRIBED and SWORN to before me this Hay of October, by

My Commission Expires:

2-26-27

NOTARY PUBLIC



William Christopher Neely

2103 Ward St. Midland, TX 79705 903.821.1174 wcneely2@gmail.com

Professional Experience

Geologist I | Concho Resources, Midland, TX

- January 2019 Present Evaluate, plan, and execute single & multi-well pad projects and SWD wells while working closely with other disciplines throughout all phases of project planning
- Continuously incorporate a multi-disciplinary approach to assess secondary and tertiary target potential on a core to regional scale for multiple asset areas in the Permian Basin
- Extensive technical work in well log interpretation, log based sequence stratigraphy, multivariate predictive processes, geomodelling, geosteering, geologic mapping, and resource evaluation

Completed Professional Course Topics/Certifications

Petra/Geographix/Petrel/Kingdom/Transform **Reservoir Characterization & Geostatistical Modeling** ArcGIS Geomechanical Concepts in Unconventional Completions **Unconventional Resource Assessment & Evaluation** Applied Well Log Sequence Stratigraphy for Exploration and Production Spotfire Essentials Starsteer Geosteering **Professional Organizations and Organizational Boards** Aug 2014 – Present

AAPG (American Association of Petroleum Geologists) Oklahoma State University School of Geology Alumni Board Oil and Gas Network "Street Team"

Previous Related Work Experience

Geoscience Intern | Concho Resources, Midland, TX

- Large scale acreage evaluation in the Northern Delaware Basin
- Determined favorable economic targets in undeveloped area from over 5000 feet of strata
- Worked with both reservoir engineering department and land department to both qualify and quantify geologic work

Geoscience Intern | WPX Energy, Tulsa, OK

- Exploration and initial development of potential lateral play within a carbonate system of the Williston Basin in ND, MT.
- Aided in development of theoretical depositional model of the carbonate sequences.
- Analyzation of geochemical (SRA) data from potential source rocks interbedded within carbonate system.

Geoscience Intern | BGEnergy Partners, Oklahoma City, OK

- Gathered additional information of newly leased areas and developed potential prospects (North-Central Oklahoma)
- Evaluated key target formations and helped execute secondary recovery procedures in sandstone reservoirs

Education and Certifications

Oklahoma State University		Graduation: Fall 2018			
Master of Science in Geology	Cumulative GPA: 4.00/4.00				
Thesis Topic Multidisciplinary Characterization of Reserv	voir Heterogeneity within the Me	ramec Interval of the STACK Play,			
Central Oklahoma					
Publications (1) Interpretation, "Characterization of Rese	ervoir Heterogeneity within the N	leramec Interval of the STACK Play.			
Central Oklahoma". In print. 2020.	2 /				
Oklahoma State University	Graduation: May 2017				
Bachelor of Science in Geology	Cumulative GPA: 3.50/4.00				
Research Emphasis: Characterization of Subsurface after (Major GPA: 3.70/4.00				
Related Coursework Short Courses:		•			
Well Log Analysis Petroleum Rocks & Fluids	Subsurface Methods	Petroleum Geology			
Advanced Carbonate Petrology and Geochemistry	Sequence Stratigraphy				
Geophysical exploration	Fundamentals of GIS				
Related Collegiate Experience and Community Invol	lvement				
AAPG Imperial Barrel Award Competition 2 nd Place Mid		Spring 2018			
 Bight Basin Australia Created synthetics, struc 					
attributes to aid in interpretation, developed 3-D	conceptual models of petroleum	system, and developed a prospect			
with associated volumetric analysis					
Vice President AAPG OSU Student Chapter	Sept. 2016 – May 2017				
Coordinate professional development events and ac	ctivities and communicate valuab	le information to students.			
Executive Director- Co-Founder "Gatorfest"		August 2013 – May 2015			

Raised over \$10,000 each year for the Stillwater YMCA as director and the event still takes place every spring.

May 2018 - August 2018

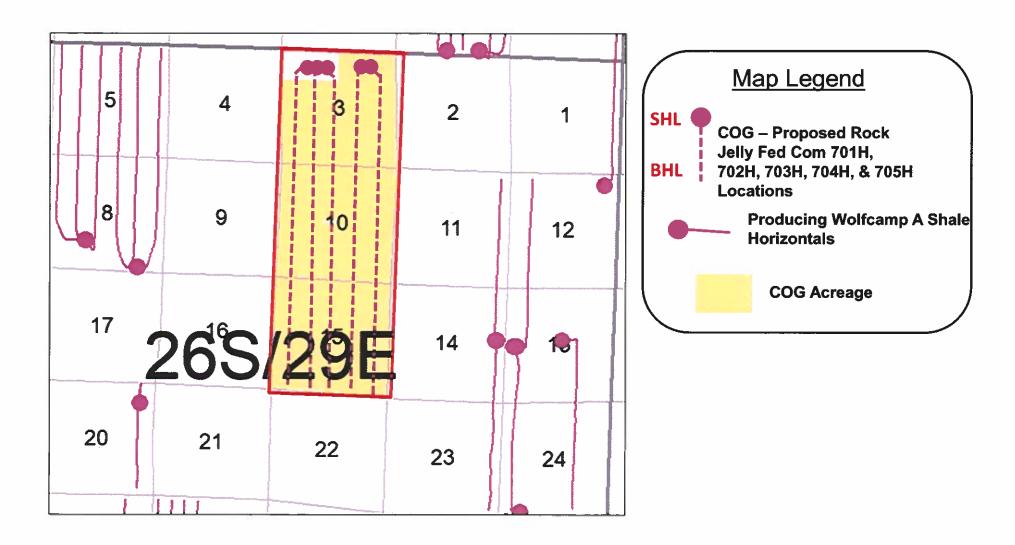
October 2019 - Present

June 2019 – Present

May 2017 – August 2017

August 2014 -- May 2017

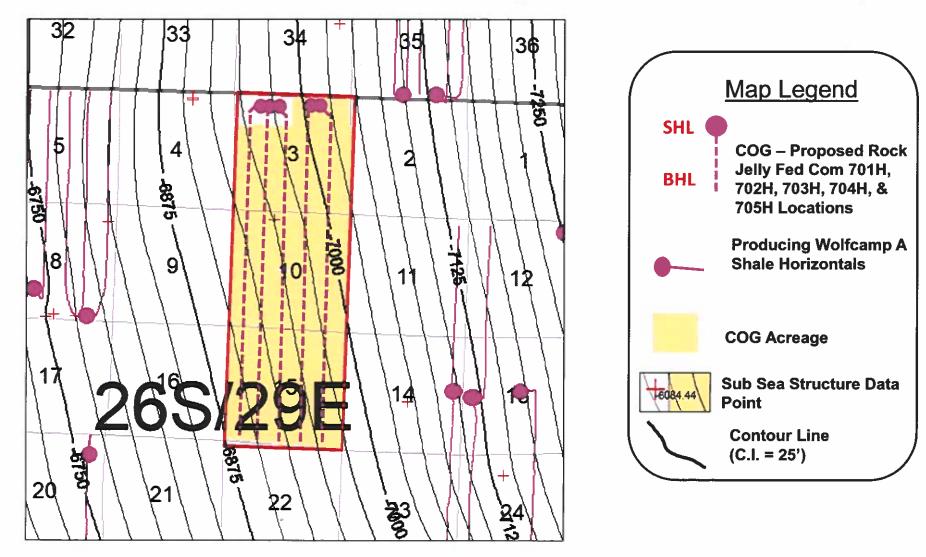
Purple Sage Pool Rock Jelly Fed Com Location Map



СОNСНО

BEFORE THE OIL CONSERVATION DIVISION Santa Fe, New Mexico Case No. 21344 Attachment A Submitted by: <u>COG OPERATING LLC</u> Hearing Date: <u>October 22, 2020</u>

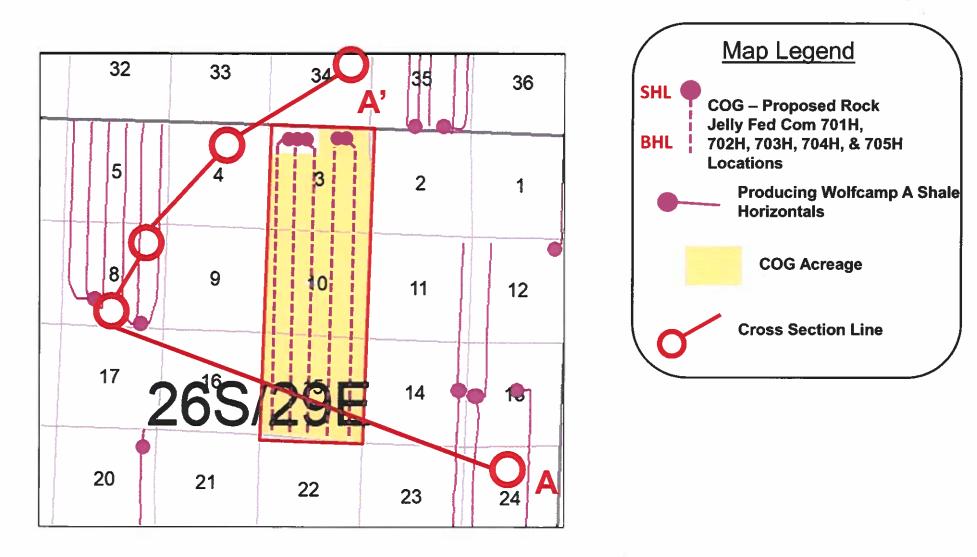
Purple Sage Pool Wolfcamp Subsea **Structure Map**



BEFORE THE OIL CONSERVATION DIVISION Santa Fe, New Mexico Case No. 21344 Attachment B Submitted by: COG OPERATING LLC Hearing Date: October 22, 2020



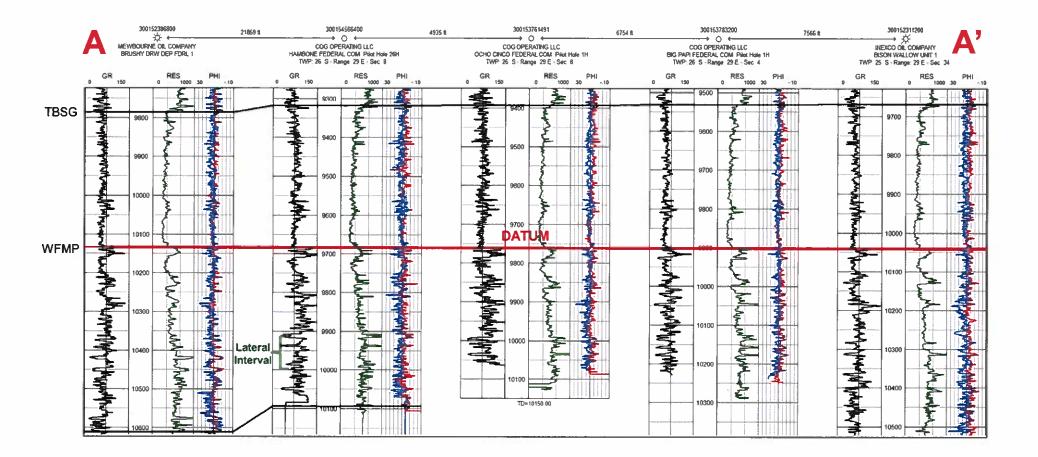
Purple Sage Pool Cross Section Location Map





BEFORE THE OIL CONSERVATION DIVISION Santa Fe, New Mexico Case No. 21344 Attachment C Submitted by: <u>COG OPERATING LLC</u> Hearing Date: <u>October 22, 2020</u>

Stratigraphic Cross Section A – A'





BEFORE THE OIL CONSERVATION DIVISION Santa Fe, New Mexico Case No. 21344 Attachment D Submitted by: COG OPERATING LLC Hearing Date: October 22, 2020

Shane Volk

Reservoir Engineer

Contact

Address 6463 Valley View Rd Edmond, Oklahoma, 73034

Phone (918) 724-0085

E-mail shanevolk@att.net

Skills

Asset Valuations Economic Analysis Budgeting & Scenario Analysis Decline Curve Analysis Type Curve Generation Field Development Planning Operational Planning Production Forecasting Probabilistic Analysis Risk & Uncertainty Analysis Portfolio Characterizations Project Management Reserves Estimation Data Analysis

Strengths

Emotional Intelligence Leadership Commercial Mindset Continuous Improvement Attention to Detail Mentoring & Developing Others Analytical Problem-Solving Versatile, proactive, and meticulous Reservoir Engineer with over ten years of experience in multiple basins in the upstream oil and gas industry. Proven success in leadership, reservoir engineering, as well as strategic & operational planning. Servant leader experienced in driving great team successes in both supervisory and support staff roles. Unique ability to actualize the value proposition associated with complex technical problems. Recognized consistently for exceptional ability to improve processes and tools. Proficient across the entire value chain, with specialized expertise in economic analysis, asset valuations, and development planning. Big picture focus, communicating strategic direction and vision to succeed.

Work History

2019-03 -	BU Strategic Planning							
2019-10	Devon Energy, Oklahoma City, OKArea: Permian Basin							
	 Transformed strategic planning capabilities through integration of subsurface characterizations with surface infrastructure; identified bottlenecks & created field development scenarios 							
	which maximized free cash flow							
	 Automated BU marketing production forecast process with IT collaboration; eliminated monthly work previously done by six engineers 							
	 Enhanced Enersight software utilization from a simple production forecast only tool to a dynamic scenario analysis 							
	tool focused on optimizing free cash flow							
2018-05 -	Reservoir Engineering							
2019-02	Devon Energy, Oklahoma City, OK							
	Area: Anadarko Basin							
	 Identified path to commerciality for gas heavy STACK assets; 							
	innovatively exposed significant gas marketing agreement							
	disadvantage & asset margin impact							
	 Developed economic screening process for exploration prospects to prioritize team offerte and quickly programs 							
	prospects to prioritize team efforts and quickly progress highest value opportunities							
	 Initiated team efforts to propose creative JV finance options i 							
	high GOR areas to reduce capital expenses and improve economic metrics							
	 economic metrics Selected as BU expert to join corporate Business Developme group for multiple valuations; routinely evaluated PDP and 							
2015-11 -	 economic metrics Selected as BU expert to join corporate Business Developme group for multiple valuations; routinely evaluated PDP and risked upside development scenarios for potential acquisition 							
2015-11 - 2018-04	 economic metrics Selected as BU expert to join corporate Business Development group for multiple valuations; routinely evaluated PDP and risked upside development scenarios for potential acquisition Reservoir Engineering Supervisor 							
	 economic metrics Selected as BU expert to join corporate Business Developme group for multiple valuations; routinely evaluated PDP and risked upside development scenarios for potential acquisition 							

 Successfully assumed Reservoir Manager & Supervisor responsibilities and led department efforts to integrate ~\$500

Software

PEEP	
Enersight	
Microsoft Office	
IHS Harmony	
IHS Enerdeq	
DrillingInfo	
OFM	
Spotfire	
Aries	

Most Proud Of

Completing EMBA

Excelled (4.0) while also balancing the demands of a full-time job and family of five <u>1st Planning Supervisor</u> Selected as one of the first Execution Planning Supervisors at Devon Energy

Education

2017-08 - 2018-10 Executive MBA

University of Oklahoma - Norman, OK

2005-08 - 2009-05

Bachelor of Science: Petroleum Engineering

University of Oklahoma - Norman, OK million acquisition of RKI Exploration

- Utilized economic distributions to create probability of commercial success methodology; facilitated meaningful leadership discussion around uncertainty between investment opportunities
- Initiated and led subsurface asset team efforts to prioritize and progress asset valuation opportunities (acreage trades, state/federal lease sales, JVs, DrillCo transactions)
- Selected as BU subsurface lead to join Business Development for significant divestiture valued at ~\$1 billion; served as primary point of contact with investment banking experts to characterize PDP & upside opportunities

Execution Planning Supervisor

Devon Energy, Oklahoma City, OK

- Area: Powder River Basin
- Instrumental in leading BU through project management change management initiative
- Supervised multi-functional development team (geoscience, land, drilling, operations, completions) and led efforts to generate, implement, and execute four rig drilling program
- Generated quality assurance reports/tools to track progress & manage change with respect to daily operations & program performance (cost, schedule, production, risk)
- Created and implemented permitting flow model to provide increased regulatory transparency, process improvement, and inventory management
- Led and coordinated efforts to define and implement development planning hand-off process between subsurface asset and execution teams

Special Assignment - Project Management

Devon Energy, Oklahoma City, Oklahoma

- One of five selected for enterprise transformation initiative
- Defined and implemented enterprise BU roles and responsibilities for Devon's Project Management Methodology (asset and execution teams)
- Served as subject matter expert during company-wide implementation training courses

Reservoir Engineering

Devon Energy, Oklahoma City, Oklahoma

- Area: Powder River Basin
- Interim Reservoir Manager from Jan 2014 Feb 2014
- Selected for newly-created role accountable for managing and coordinating corporate processes for the entire BU; included business performance analysis, budget development and forecasts, portfolio updates, full life cycle economic lookbacks, and SEC reserves management

2012-09 -2014-03

2014-04 -

2014-07

2014-08 -

2015-10

- Championed and implemented new portfolio characterization process to reduce burden on other reservoir engineers
- Established new reconciliation and review process to improve effectiveness in SEC reserves management
- Implemented end-of-field-life methodology for declining assets; included transferable profitability screening process of any asset

Reservoir Engineering

Devon Energy, Oklahoma City, Oklahoma

- Area: Wind River Basin (Enhanced Oil Recovery)
- Identified the critical surveillance metric for the Madison CO2 flood – Injection Withdrawal Ratio – which drove performance and enabled a peak rate of ~6,000 BOPD
- Created and stewarded injection schedule for the Madison CO2 flood; resulting WAG cycle mitigated significant gas breakthrough issues
- Organized and led team technical reviews to quickly identify, evaluate, and obtain approval for additional opportunities for the Madison CO2 flood prior to budget (compression upgrade, recompletions, drilling, and conformance)

Reservoir Engineering

2011-03 -2011-10

2011-11 -2012-08

- ExxonMobil, Houston, TXArea: Permian Basin
- One of two reservoir engineers selected to multi-functional project execution team targeting emerging tight oil plays (Bone Spring/Wolfberry)
- Developed initial five well appraisal plan and potential range of outcomes with subsurface team
- Coordinated budget activities for twenty-five assets; developed plan which positioned assets for profitable growth

Reservoir Engineering

ExxonMobil, Houston, TX

- Area: Offshore Gulf of Mexico
- After inheriting compression upgrade project after key technical checkpoint, subsequently identified and corrected significant incremental economics modeling error resulting in project deferral (\$11 million CAPEX savings)
- Completed reservoir characterization of 14 horizons; proactively evaluated net-asset-value scenarios of three associated platforms and subsequently recommended and led divestiture efforts
- Developed well seriatim based on TGOR and WOR to optimize production due to significant facility constraints; initially resulted in ~800 BOPD uplift

2009-07 -

2011-02

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

APPLICATION OF COG OPERATING LLC FOR COMPULSORY POOLING, EDDY COUNTY, NEW MEXICO.

Case No. 21344

VERIFIED STATEMENT OF SHANE VOLK

Shane Volk, of lawful age and being first duly sworn, declares as follows:

- 1. My name is Shane Volk. I have been a reservoir engineer with COG Operating LLC since March of 2020. I am familiar with the application filed by COG Operating LLC and engineering matters involved with this case. I have conducted an economic evaluation of the subject wells.
- 2. I have not previously testified before the New Mexico Oil Conservation Division. My experience and qualifications are as follows:
 - a. Education
 - i. Executive MBA, University of Oklahoma, 2018
 - ii. BS Petroleum Engineering, University of Oklahoma, 2005
 - b. Work History
 - i. Reservoir Engineer, ExxonMobil, July 2009 October 2011
 - ii. Reservoir Engineer, Devon Energy, November 2011 October 2019
 - iii. Reservoir Engineer, Concho, March 2020 Present
- 3. I have prepared certain exhibits in support of COG's application for the hearing and I will explain each for the examiners.
- 4. <u>COG Exhibit No. C-1</u> is a summary of the points I will demonstrate in the following exhibits to show why COG's development plan is in the best interest of conservation, the prevention of waste and the protection of correlative rights. Additionally, COG's proposed development plan is the most efficient and economic way to develop this acreage.
- 5. <u>COG Exhibit No. C-2</u> is a development plan comparison. On the left-hand side, I have shown COG's preferred development plan. On the right-hand side, I have shown an alternative development plan if COG's application is denied. The preferred development pattern will allow for 15,180 feet of total lateral. Project capital will be approximately \$47.6 million. If Concho were forced to follow the sub-optimal development plan, it

BEFORE THE OIL CONSERVATION DIVISION Santa Fe, New Mexico Case No. 21344 Exhibit No. C Submitted by: <u>COG OPERATING LLC</u> Hearing Date: October 22, 2020 would only allow for 10,956 feet of total lateral but would take \$57.5 million in project capital.

The alternate plan would cause waste because it would use capital inefficiently (requires an estimated \$9.9 million of additional capital to fully develop the 3 sections), and results in increased surface land used by wellbore SHLs as well as production facilities.

- 6. <u>COG Exhibit No. C-3</u> shows a surface usage comparison. Pad locations are shown in yellow. The alternate development plan will require 50% more surface locations. COG's preferred development plan reduces surface and facility usage.
- 7. <u>COG Exhibit No. C-4</u> illustrates how Concho's development plan will allow for more efficient recovery of the area. The red bar areas show the non-stimulated area. The alternative plan would lead to a portion of the reservoir that would not be stimulated due to lost lateral length from statewide offset requirements.
- 8. <u>COG Exhibit No.C-5</u> provides a net economic comparison between COG's preferred development plan and the alternate plan. The Net Present Value discounted at 10% for our preferred development plan will be more than 9% than the alternate plan. The preferred plan will cost almost \$10 million dollars less. Additionally, the preferred plan will provide 18% more Profits to Investment (discounted at 10%) and 15% improvement to the total development Return on Investment. Finally, using the lateral lengths from Exhibit C-2, drilling and completion costs (in total and on a per foot basis) are less under the preferred plan. If the alternate plan is forced, it will result in ~\$7 million in lost value to all parties involved.
- 9. Granting COG's applications is in the best interest of conservation, will prevent waste, and protect correlative rights.
- **10.** COG Exhibit Nos. C-1 through C-5 were prepared by me or compiled under my direction or supervision.

THIS CONCLUDES SHANE VOLK'S STATEMENT.

VERIFICATION

STATE OF TEXAS)
)ss.
COUNTY OF MIDLAND)

Shane Volk, being duly sworn upon his oath, deposes and states that: he is a Reservoir Engineer for COG Operating LLC; he is authorized to make this verification on its behalf; he has read the foregoing statement, and knows the contents thereof; and the same is true and correct to the best of his knowledge, information, and belief.

de

Shane Volk

SUBSCRIBED and SWORN to before me this 13th day of October, 2020, by

NOTARY PUBLIC



My Commission Expires:

2-26-2023

Summary

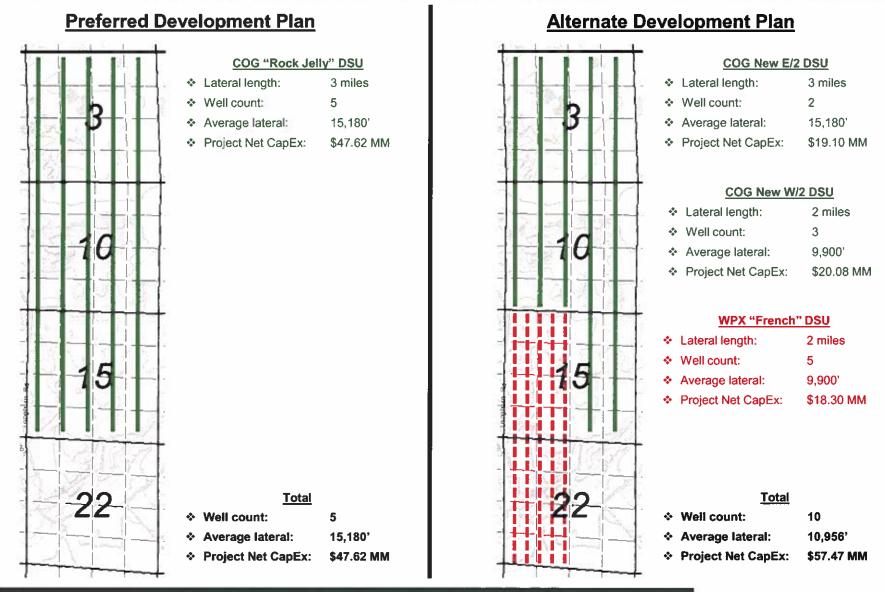
- COG's development plan maximizes the economic recovery of sections
 3, 10 and 15
- WPX's alternate development plan has the following consequences to recover the same reserves:
 - Five additional wells
 - ➤ ~\$10 MM additional net CapEx
 - Reduces average lateral length by ~28%
 - Increases surface pad locations by 50%
 - Reduces completed lateral/section by 55'
 - Creates value erosion for Concho
 - \circ NPV₁₀ reduced by \$7 MM
 - Discounted P/I reduced by ~15%
 - \circ ROR reduced by ~13%

BEFORE THE OIL CONSERVATION DIVISION Santa Fe, New Mexico Case No. 21344 Exhibit No. C-1 Submitted by: <u>COG OPERATING LLC</u> Hearing Date: <u>October 22, 2020</u>



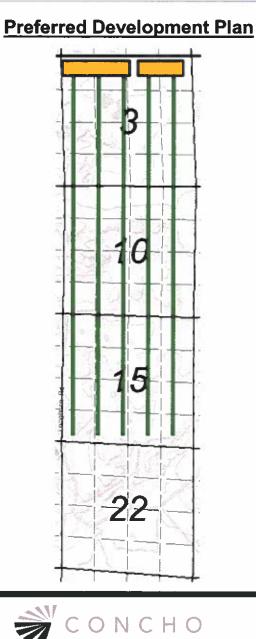
Development Plan Comparison

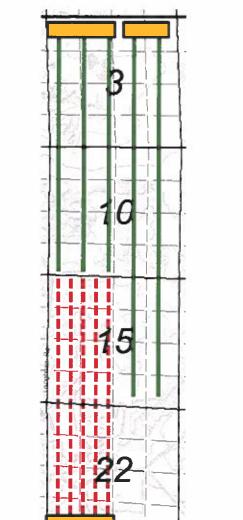
СОNСНО



BEFORE THE OIL CONSERVATION DIVISION Santa Fe, New Mexico Case No. 21344 Exhibit No. C-2 Submitted by: <u>COG OPERATING LLC</u> Hearing Date: <u>October 22, 2020</u>

Pad Location

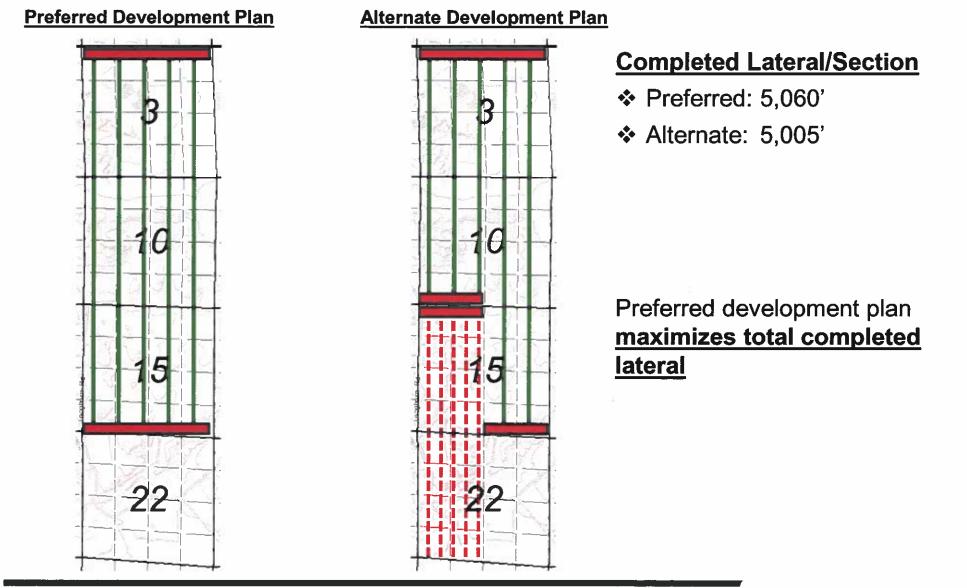




Alternate Development Plan

Alternate development plan requires <u>50% more surface</u> <u>locations</u>

BEFORE THE OIL CONSERVATION DIVISION Santa Fe, New Mexico Case No. 21344 Exhibit No. C-3 Submitted by: <u>COG OPERATING LLC</u> Hearing Date: <u>October 22, 2020</u>

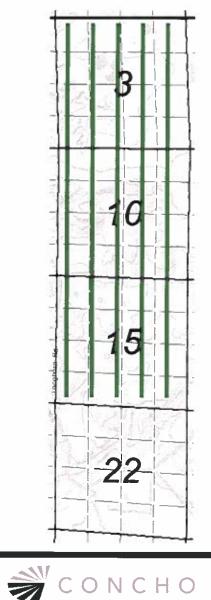


СОИСНО

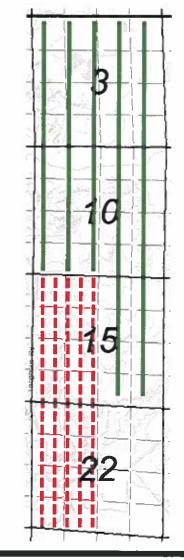
BEFORE THE OIL CONSERVATION DIVISION Santa Fe, New Mexico Case No. 21344 Exhibit No. C-4 Submitted by: COG OPERATING LLC Hearing Date: October 22, 2020

Net Economic Comparison

Preferred Development Plan



Alternate Development Plan



Metric	Preferred	Alternate		
NPV ₁₀ (\$ MM)	+9%			
CapEx (\$ MM)	47.62	57.47		
PIR ₁₀	+18%			
ROR	+15%			
D&C/foot (\$)	704	746		

BEFORE THE OIL CONSERVATION DIVISION Santa Fe, New Mexico Case No. 21344 Exhibit No. C-5 Submitted by: <u>COG OPERATING LLC</u> Hearing Date: <u>October 22, 2020</u>

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

APPLICATION OF COG OPERATING LLC FOR COMPULSORY POOLING, EDDY COUNTY, NEW MEXICO.

CASE NO. 21344

AFFIDAVIT

STATE OF NEW MEXICO)) ss. COUNTY OF SANTA FE)

Michael Rodriguez, attorney and authorized representative of COG Operating LLC, the Applicant herein, being first duly sworn, upon oath, states that the above-referenced Application were provided under the notice letter and proof of receipts attached hereto.

Michael Rodriguez

SUBSCRIBED AND SWORN to before me this 15th day of October 2020 by Michael

Rodriguez.

•)aa(•)A, - s(ab ISAMARIE ORTIZ Y PUBLIC-STATE OP NE My commission ublic

BEFORE THE OIL CONSERVATION DIVISION Santa Fe, New Mexico Case No. 21344 Exhibit No. D Submitted by: <u>COG OPERATING LLC</u> Hearing Date: <u>October 22, 2020</u>



June 18, 2020

VIA CERTIFIED MAIL CERTIFIED RECEIPT REQUESTED

TO: ALL INTEREST OWNERS SUBJECT TO POOLING PROCEEDINGS

Case No. 21344: Application of COG Operating, LLC for Compulsory Pooling, Re: Eddy County, New Mexico. Rock Jelly Fed Com #701H, #702H, #703H, #704H, #705H Wells

To whom it may concern:

This letter is to advise you that COG Operating LLC has filed the enclosed application with the New Mexico Oil Conservation Division. The hearing will be conducted on July 9, 2020 beginning at 8:15 a.m.

During the COVID-19 Pubic Health Emergency, state buildings are closed to the public and hearings will be conducted remotely. To participate in the electronic hearing, see the instructions posted on the OCD Hearings website: http://www.emnrd.state.nm.us/OCD/announcements.html. You are not required to attend this hearing, but as an owner of an interest that may be affected by this application, you may appear and present testimony. Failure to appear at that time and become a party of record will preclude you from challenging the matter at a later date.

Pursuant to Division Rule 19.135.4.13.B, parties appearing in a case are required to file a pre-hearing Statement at least four business days in advance of a scheduled hearing, but in no event later than 5:00 p.m. mountain time, on the Thursday preceding the scheduled hearing date. The statement must be filed at the Division's Santa Fe office or electronically submitted to ocd.hearings@state.nm.us and should include: the names of the parties and their attorneys, a concise statement of the case, the names of all witnesses the party will call to testify at the hearing, the approximate time the party will need to present its case, and identification of any procedural matters that are to be resolved prior to the hearing.

If you have any questions about this matter, please contact Travis Macha at (432) 221-0452 or tmacha@concho.com.

Sincerely,

Michael Rodriguez ATTORNEY FOR COG OPERATING LLC

SANTA FE OFFICE

ONE CONCHO CENTER | 600 WEST ILLINOIS AVENUE | MIDLAND, TEXAS 79701 1048 PASEO DE PERALTA | SANTA FE, NEW MEXICO 87501 P432.683.7443 | F432.683.7441

P 505.780.8000 | F 505.428.0485

Carlsbad Current Argus.

Affidavit of Publication Ad # 0004246513 This is not an invoice

CONCHO 1048 PASEO DE PERALTA

SANTA FE, NM 87501

I, a legal clerk of the **Carlsbad Current Argus**, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the State wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof on the date as follows, to wit:

06/25/2020

len Legal Clerk

Subscribed and sworn before me this June 25, 2020:

er VI, County of Brown State

My commission expires

Ad # 0004246513 PO #: NOP Rock Jelly # of Affidavits1

This is not an invoice

NANCY HEYRMAN Notary Public State of Wisconsin

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION SANTA FE, NEW MEXICO

The State of New Mexico through its Oil Conservation Division hereby gives notice pursuant to law and the Rules and Regulations of the Division of the following public hearing to be held at 8:15 A.M. on July 9, 2020. During the COVID-19 Pubic Health Emergency, state buildings are closed to the public and hearings will be conducted remotely. To participate in the electronic hearing, see the instructions posted on the OCD Hearings website: http://www.emnrd.state.nm.u s/OCD/announcements.html. If you are an individual with a disability who is in need of a reader, amplifier, qualified sign language interpreter, or any other form of auxiliary aid or service to attend or participate in the hearing, please contact: Florene Davidson at 505-476-3458 or through the New Mexico Relay Network, 1-800-659-1779 by June 30, contact: Rorene Davidson at copies of the docket by contacting Ms. Davidson at the phone number indicated above. Also, the docket will be posted on the Oil Conservation Division website at www.emnrd.state.nm.us/OCD/. Please contact Ms. Davidson if a summary or other type of accessible form is needed.

> STATE OF NEW MEXICO TO: All named parties and persons having any right, title, interest or claim in the following case and notice to the public.

(NOTE: All land descriptions herein refer to the New Mexico Principal Meridian whether or not so stated.)

To: All interested parties, including: Burlington Resources Oil & Gas Co.; OXY U.S.A., Inc.; EOG Resources, Inc.; XTO Holdings, LLC; WPX Energy Permian, LLC; Nestegg Energy Corporation; Nuevo Seis, LP; Wing Resources III, LLC; Danielle Hannifin; R.R. Hinkle Company, Inc.; Morris E. Schertz and wife, Holly K. Schertz; Pony Oil Operating, LLC.

CASE 21344: Application of COG Operating LLC for compulsory pooling, Eddy County, New Mexico. Applicant in the above-styled cause seeks an order from the division pooling all uncommitted interest owners in the Wolfcamp formation underlying a standard 1920-acre, more or less, horizontal spacing unit comprised of all of Sections 3, 10, and 15, Township 26 South, Range 29 East, NMPM, Eddy County, New Mexico. COG Operating LLC seeks to dedicate the above-referenced horizontal spacing unit to the following proposed wells:

• The Rock Jelly Fed Com 701H well to be horizontally drilled from a surface hole location in the NE/4NE/4 (Unit A) of Section 3 to a bottom hole location in the SE/4SE/4 (Unit P) of Section 15,

 The Rock Jelly Fed Com 702H well to be horizontally drilled from a surface hole location in the NE/4NE/4 (Unit A) of Section 3 to a bottom hole location in the SW/4SE/4 (Unit O) of Section 15,

• The Rock Jelly Fed Com 703H well to be horizontally drilled from a surface hole location in the NE/4NW/4 (Unit C) of Section 3 to a bottom hole location in the SE/4SW/4 (Unit N) of Section 15,

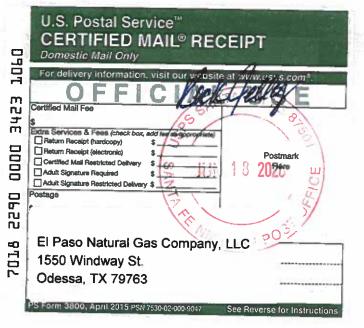
The Rock Jelly Fed Com 704H well to be horizontally drilled from a surface hole location in the NE/4NW/4 (Unit C) of Section 3 to a bottom hole location in the SE/4SW/4 (Unit N) of Section 15,

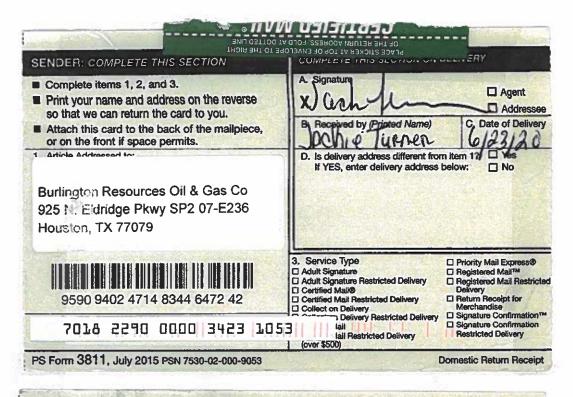
The Rock Jelly Fed Com 705H well to be horizontally drilled from a surface hole location in the NE/4NW/4 (Unit C) of Section 3 to a bottom hole location in the SW/4SW/4 (Unit M) of Section 15.

• The completed interval for the proposed Rock Jelly Fed Com 703H will be within 330' of the line separating the W/2E/2 and the E/2W/2 of Sections 3, 10, and 15, which allows inclusion of this acreage into a standard 1920-acre, more or less, horizontal spacing unit. Also, to be considered will be the timing of the drilling and completing of said wells, the allocation of the cost thereof, the actual operating costs and charges for supervision, the designation of COG Operating LLC as operator of the wells, and the imposition of 200% charge for risk involved in drilling and completing said wells. Said area is located approximately 12 miles southeast of Malaga, New Mexico.

June 25, 2020

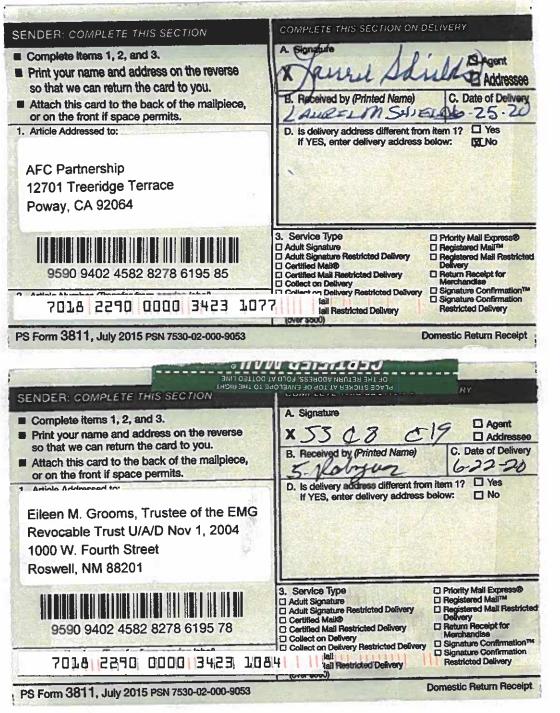




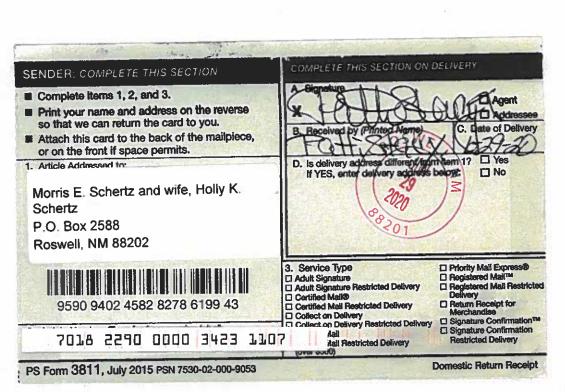


SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY				
Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you.	A. Signature	Agent Addressee			
Attach this card to the back of the mailpiece, or on the front if space permits.	B. Received by (Printed Name)	C. Date of Delivery			
	D. Is delivery address different from If YES, enter delivery address				
El Paso Natural/Gas Company, LLC 1550 Windway St. Odessa, TX 79763					
1550 Windway St.	3. Service Type Adult Signature Adult Signature Restricted Delivery Certified Mail® Collect on Delivery Collect on Delivery Restricted Delivery Collect on Delivery Restricted Delivery	Priority Mall Express® Registered Mail™ Registered Mail Restricte Delivery Return Receipt for Merchandise Signature Confirmation™			

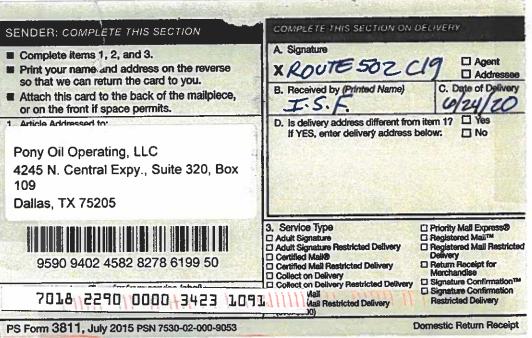








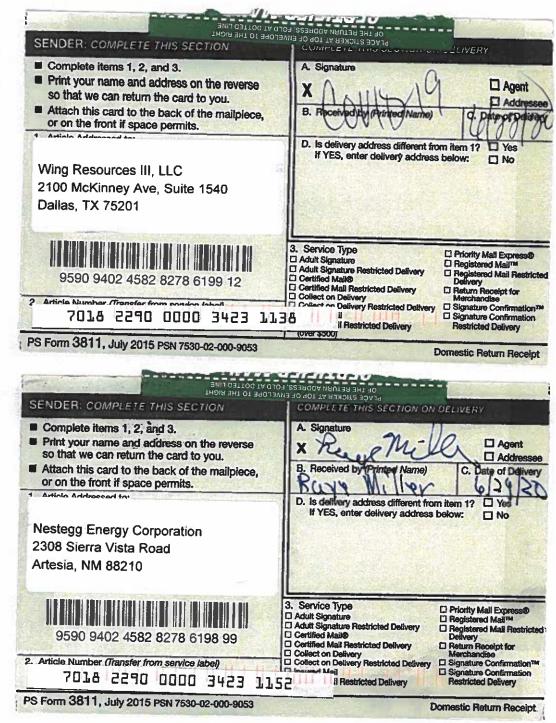


















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