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

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

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

Case No. 21292

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

Case No. 21293

MEWBOURNE OIL COMPANY'S MOTION TO DISMISS

Mewbourne Oil Company ("Mewbourne") moves the Division for an order dismissing the above applications, and in support thereof, states:

A. FACTS.

1. In Case No. 21292 COG Operating LLC ("COG)") seeks an order pooling all mineral interests in the Wolfcamp formation underlying the East halves of Section 5, 8, and 17, Township 25 South, Range 28 East, NMPM.

In Case No. 21293 COG seeks an order pooling all mineral interests in the Wolfcamp formation underlying the West halves of Section 5, 8, and 17, Township 25 South, Range 28 East, NMPM.

- 2. All of Sections 5 and 8, Township 25 South, Range 28 East, NMPM are subject to a Joint Operating Agreement dated December 15, 2018, which covers depths below the Second Bone Spring Sand zone within the Bone Spring formation (the "Pale Rider" JOA). **Exhibits A and B**. Mewbourne is designated operator under the JOA. *COG signed the mutually negotiated JOA on July 31, 2019*, less than a year ago. This was done after Mewbourne and COG completed an acreage trade, and part of that agreed-upon trade was that Mewbourne would operate Sections 5 and 8.
 - 3. Mewbourne has proposed the following two mile Wolfcamp wells under the JOA:

Pale Rider 8/5 W1OB State Com. Well No. 1H (API No. 30-015-46916); Pale Rider 8/5 W0OB State Com. Well No. 1H (API No. 30-015-46920); Pale Rider 8/5 W0PA State Com. Well No. 1H (API No. 30-015-46921);

Pale Rider 8/5 W1PA State Com. Well No. 1H (API No. 30-015-46922); Pale Rider 8/5 W0MD State Com. Well No. 1H (API No. 30-015-Pending); Pale Rider 8/5 W1MD State Com. Well No. 1H (API No. 30-015-Pending); Pale Rider 8/5 W0NC State Com. Well No. 1H (API No. 30-015-Pending); and Pale Rider 8/5 W1NC State Com. Well No. 1H (API No. 30-015-Pending).

Significantly, COG signed AFEs to voluntarily participat in all of these wells 2-3 months ago. **Exhibit C**.

4. COG operates all of Sections 17, 20, and 29, Township 25 South, Range 28 East, NMPM. <u>See</u> Exhibit A. In addition, there are no existing Wolfcamp wells in that acreage which would impair COG from drilling that acreage.

B. ARGUMENT.

COG's applications should be dismissed for the following reasons:

- (a) There is a voluntary agreement covering all of Sections 5 and 8, agreed to by COG. Thus, NMSA 1978 §70-2-17.C cannot and should not be invoked to compulsory pool that acreage in the Wolfcamp formation.
- (b) COG agreed that Mewbourne should be operator of the Wolfcamp formation underlying Sections 5 and 8. It should not be allowed to use NMSA 1978 §70-2-17.C to breach that agreement.
- (c) COG approved the drilling of the above eight wells just a couple months ago. This is further evidence that COG voluntarily agreed that the Wolfcamp formation in Sections 5 and 8 should be developed independently of other acreage.
- (d) If COG wants to drill three mile laterals, it can consolidate all of Sections 17, 20, and 29, Township 25 South, Range 28 East, NMPM, which it already operates. **See Exhibit A**.

Based on the foregoing, there is no need to pool Sections 5 and 8 with Section 17. Moreover, COG is reneging on its recent voluntary agreement with Mewbourne under which it agreed to develop Sections 5 and 8 with Mewbourne as operator. Compulsory pooling should not be countenanced by the Division under these circumstances.

WHEREFORE, Mewbourne requests that COG's applications be dismissed without need of a hearing.

James Bruce Post Office Box 1056 Santa Fe, New Mexico 87504 (505) 982-2043 jamesbruc@aol.com Attorney for Mewbourne Oil Company **VERIFICATION** Mitch Robb, being duly sworn upon his oath, deposes and states that: He is a landman for Mewbourne Oil Company; he is authorized to make this verification on its behalf; he has read the foregoing motion, and knows the contents thereof; and the facts set forth in Section A above true and correct to the best of his knowledge, information, and belief. SUBSCRIBED AND SWORN TO before me this 2th day of June, 2020 by Mitch

Respectfully submitted,

My Commission Expires:

) ss.

STATE OF TEXAS

Robb.

COUNTY OF MIDLAND

CERTIFICATE OF SERVICE

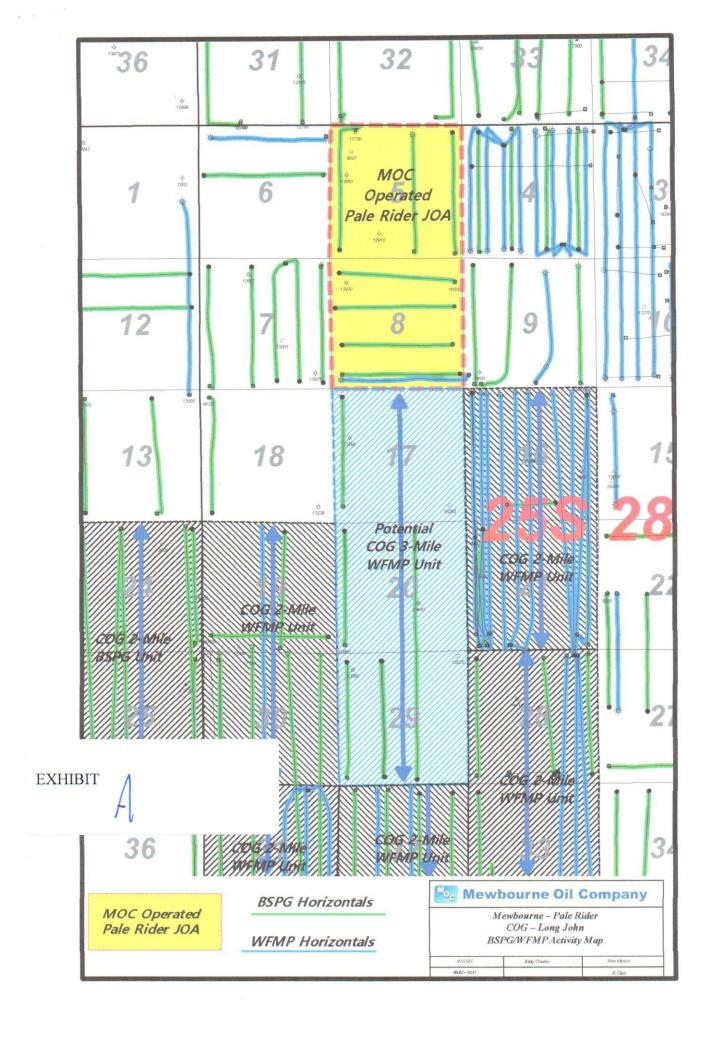
Michael Feldewert mfeldewert@hollandhart.com

Adam Rankin agrankin@hollandhart.com

Julia Broggi jbroggi@hollandhart.com

Kaitlyn Luck kaluck@hollandhart.cim

James Bruce



A.A.P.L. FORM 610 - 1989

MODEL FORM OPERATING AGREEMENT HORIZONTAL MODIFICATIONS

OPERATING AGREEMENT

DATED

	December 15 , 2018 Year	,	
OPERATOR Mew	bourne Oil Company		
CONTRACT AREA	Township 25 South, Range 28 East, N.M.P.M.		
	Section 5: All		
	Section 8: All		
Black Lake 5/8 Prosp	ect		
COUNTY OR PARIS	H OF _Eddy	, STATE OF	New Mexico

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EXHIBIT /3

OPERATING AGREEMENT

THIS AGREEMENT, entered into by and between ______ Mewbourne Oil Company

hereinafter designated and referred to as "Operator," and the signatory party or parties other than Operator, sometimes hereinafter referred to individually as "Non-Operator," and collectively as "Non-Operators."

WITNESSETH:

WHEREAS, the parties to this agreement are owners of Oil and Gas Leases and/or Oil and Gas Interests in the land identified in Exhibit "A," and the parties hereto have reached an agreement to explore and develop these Leases and/or Oil and Gas Interests for the production of Oil and Gas to the extent and as hereinafter provided,

NOW, THEREFORE, it is agreed as follows:

ARTICLET

DEFINITIONS

As used in this agreement, the following words and terms shall have the meanings here ascribed to them:

A. The term "AFE" shall mean an Authority for Expenditure prepared by a party to this agreement for the purpose of estimating the costs to be incurred in conducting an operation hereunder. An AFE is not a contractual commitment. Rather it is only an estimate, made in good faith.

B. The term "Completion" or "Complete" shall mean a single operation intended to complete a well as a producer of Oil and Gas in one or more Zones, including, but not limited to, the setting of production easing, perforating, well stimulation and production testing conducted in such operation.

C. The term "Contract Area" shall mean all of the lands, Oil and Gas Leases and/or Oil and Gas Interests intended to be developed and operated for Oil and Gas purposes under this agreement. Such lands, Oil and Gas Leases and Oil and Gas Interests are described in Exhibit "A "

D. The term "Deepen" shall mean a single operation whereby a well is drilled to an objective Zone below the deepest Zone in which the well was previously drilled, or below the Deepest Zone proposed in the associated AFE, whichever is the lesser. When used in connection with a Horizontal Well, the term "Deepen" shall mean an operation whereby a Lateral is drilled to a Displacement greater than (i) the Displacement contained in the proposal for such operation approved by the Consenting Parties, or (ii) to the Displacement to which the Lateral was drilled pursuant to a previous proposal.

E. The term "Displacement" shall have the same meaning as the term defined by the state regulatory agency having jurisdiction over the Contract Area, in the absence of which the term shall otherwise mean the length of a Lateral.

F. The terms "Drilling Party" and "Consenting Party" shall mean a party who agrees to join in and pay its share of the cost of any operation conducted under the provisions of this agreement.

G. The term "Drilling Unit" shall mean the area fixed for the drilling of one well by order or rule of any state or federal body having authority. If a Drilling Unit is not fixed by any such rule or order, a Drilling Unit shall be the drilling unit as established by the pattern of drilling in the Contract Area unless fixed by express agreement of the Drilling Parties.

H. The term "Drillsite" shall mean the Oil and Gas Lease or Oil and Gas Interest on which a proposed well is to be located. When used in connection with a Horizontal Well, the term "Drillsite" shall mean (i) the surface hole location, and (ii) the Oil and Gas Leases or Oil and Gas Interests within the Drilling Unit on or under which the wellbore, including the Lateral, is located.

I. The term "Horizontal Rig Move-On Period" shall mean the number of days after the date of rig release of a Spudder Rig until the date a rig capable of drilling a Horizontal Well to its Total Measured Depth has moved on to location.

J. The term "Horizontal Well" shall have the same meaning as the term defined by the state regulatory agency having jurisdiction over the Contract Area, in the absence of which the term shall mean a well containing one or more Laterals which are drilled, Completed or Recompleted in a manner in which the horizontal component of the Completion interval (1) extends at least one hundred feet (100") in the objective formation(s) and (2) exceeds the vertical component of the Completion interval in the objective formation(s).

K. The term "Initial Well" shall mean the well required to be drilled by the parties hereto as provided in Article VI.A.

L. The term "Lateral" shall mean that portion of a wellbore that deviates from approximate vertical orientation to approximate horizontal orientation and all wellbore beyond such deviation to Total Measured Depth.

M. The term "Non-Consent Well" shall mean a well in which less than all parties have conducted an operation as provided in Article VLB.2.

N. The terms "Non-Drilling Party" and "Non-Consenting Party" shall mean a party who elects not to participate in a proposed operation.

O. The term "Oil and Gas" shall mean oil, gas, casinghead gas, gas condensate, and/or all other liquid or gaseous hydrocarbons and other marketable substances produced therewith, unless an intent to limit the inclusiveness of this term is specifically stated.

P. The term "Oil and Gas Interests" or "Interests" shall mean unleased fee and mineral interests in Oil and Gas in tracts of land lying within the Contract Area which are owned by parties to this agreement.

Q. The terms "Oil and Gas Lease," "Lease" and "Leasehold" shall mean the oil and gas leases or interests therein covering tracts of land lying within the Contract Area which are owned by the parties to this agreement.

R. The term "Plug Back" shall mean a single operation whereby a deeper Zone is abandoned in order to attempt a Completion in a shallower Zone. When used in connection with a Horizontal Well, the term "Plug Back" shall mean an operation to test or Complete the well at a stratigraphically shallower Zone in which the operation has been or is being Completed and which is not in an existing Lateral.

S. The term "Recompletion" or "Recomplete" shall mean an operation whereby a Completion in one Zone is abandoned in order to attempt a Completion in a different Zone within the existing wellbore.

T. The term "Rework" shall mean an operation conducted in the wellbore of a well after it is Completed to secure, restore, or improve production in a Zone which is currently open to production in the wellbore. Such operations include, but are not limited to, well stimulation operations but exclude any routine repair or maintenance work or drilling, Sidetracking, Deepening, Completing, Recompleting, or Plugging Back of a well.

U. The term "Sidetrack" shall mean the directional control and intentional deviation of a well from vertical so as to change the bottom hole location unless done to straighten the hole or drill around junk in the hole to overcome other mechanical difficulties. When used in connection with a Horizontal Well, the term "Sidetrack" shall mean the directional control and deviation of a well outside the existing Lateral(s) so as to change the Zone or the direction of a Lateral from the approved proposal unless done to straighten the hole or drill around junk in the hole or to overcome other mechanical difficulties.

V. The term "Spudder Rig" shall mean a drilling rig utilized only for drilling all or part of the vertical component of a Horizontal Well; a rig used only for setting conductor pipe shall not be considered a Spudder Rig.

W. The term "Terminus" shall have the same meaning as the term defined by the state regulatory agency having jurisdiction

A.A.P.L. FORM 610 - MODEL FORM OPERATING AGREEMENT - 1989 (Horz.)

	Il be effective as of the 15th day of December , 2018
	who has prepared and circulated this form for execution, represents and warran
	s) listed below, is identical to the AAPL Form 610-1989 Model Form Operation
	On-A-Disk, Inc. No changes, alterations, or modifications, other than those made
by strikethrough and/or insertion and that are clearly reco	gnizable as changes in Articles
have been made to the form.	
ATTEST OR WITNESS:	OPERATOR
	MEWBOURNE OIL COMPANY
	By Cung mideney
	Drew Robison Corey Mitchell
	Type or print name
	Title Attorney-in-Fact
	Date
	Tax ID or S.S. No. <u>75-1254872</u>
	NON-OPERATORS
	COG OPERATING LLC
	Ву
	Sean Johnson Type or print name
	Title Attorney-in-Fact
	Date
	Tax ID or S.S. No.
	DEVON ENERGY PRODUCTION COMPANY, L.
	Ву
	Catherine Lebsack
	Type or print name
	Title Vice President
	Date
	Tax ID or S.S. No.
	OCCIDENTAL PERMAIN LIMITED PARTNERSHIP
	By: OCCIDENTAL PERMIAN MANAGER, LLC
	SW
	Bradley S. Dusek Type or print name
	The Party Party and Party
	Title Attorney-in-Fact
	Date
	Tax ID or S.S. No.

EXHIBIT "A"

Attached to and made a part of that certain Operating Agreement dated December 15, 2018, by and between Mewbourne Oil Company, as Operator, and COG Operating LLC, et al, as Non-Operators.

1. LANDS SUBJECT TO THIS AGREEMENT

Township 25 South, Range 28 East, NMPM, Eddy County, New Mexico Section 5: All Section 8: All, containing 1,281.98 gross acres, more or less

2. DEPTH RESTRICTIONS AND EXCLUSIONS

Limited to depths below the Second Bone Spring formation, being defined as the stratigraphic equivalent of 8,140' as referenced in the Halliburton Dual Laterolog/Micro-Guard Log for the Spanky Federal Com #1 well (API 3001536895) located in section 33-T24S-R28E, Eddy County, NM.

3. ADDRESSES OF THE PARTIES

Mewbourne Oil Company 500 West Texas, Suite 1020 Midland, Texas 79701 Attn: Land Department Phone: (432) 682-3715

Fax: (432) 685-4170

COG Operating LLC

Attn: Joint Interest Ventures 600 W. Illinois Avenue Midland TX 79701 jivland@concho.com 432.683.7443

Devon Energy Production Company, L.P. 333 West Sheridan Avenue Oklahoma City, OK 73102

Occidental Permian Limited Partnership 5 Greenway Plaza, Suite 110 Houston, Texas 77046 Phone: (713) 215-7383 Attn: Land Manager – Permian Basin NM

4. PERCENTAGES OF THE PARTIES

		Subsequent Wells
Mewbourne Oil Company		31.483252%
COG Operating LLC		30.888777%
Devon Energy Production Company, L.P.		24.974025%
Occidental Permian Limited Partnership	_	12.653946%
	TOTAL	100,000000%

Initial. Substitute and

5. OIL AND GAS INTERESTS AND LEASES SUBJECT TO THE AGREEMENT

A) State Lease No:

VA-2779

Lease Dated:

February 1, 2003

Lessor:

The State of New Mexico acting by and through its Commissioner of

Public Lands.

Lessee:

OGX Resources, LLC.

Description:

Lots 1-4, S/2N/2 of Section 5, T-25-S, R-28-E, NMPM, Eddy County,

New Mexico, containing 321.98 acres, more or less.

Royalty:

B) State Lease No:

VB-2194

Lease Dated:

October 1, 2012.

Lessor:

The State of New Mexico acting by and through its Commissioner of

Public Lands.

Lessee:

Doug J. Schutz.

Description:

SE/4 of Section 5, T-25-S, R-28-E, NMPM, Eddy County, New Mexico,

containing 160.00 acres, more or less.

Royalty:

3/16th

C) Lease Dated:

January 13, 2005

Lessor: Lessee: Devon Energy Production Company, L.P. Occidental Permian Limited Partnership

Recorded:

Book 590, Page 1105, Eddy County Records, as corrected and rerecorded

in Book 603, Page 606, Eddy County Records, as corrected and rerecorded in Book 654, Page 1115, Eddy County Records, as amended and recorded in Book 687, Page 464 Eddy County Records, as amended by memorandum recorded in Book 1040, Page 344 Eddy County Records.

Description:

SW/4 of Section 5 and All of Section 8, T-25-S, R-28-E, NMPM, Eddy

County, New Mexico, containing 800.0 acres, more or less.

Royalty:

1/5th

6. BURDENS ON PRODUCTION:

Burdens of Record.

End of Exhibit "A"

AUTHORIZATION FOR EXPENDITURE

10000000000000000000000000000000000000	ST COM #1H	Pros	spect: PAL	E RIDER 8/5 (E	lack Lake	5/Devon Fee 8)
Location: SL: 260 FSL & 1330 FEL(B); BHL: 330 FNL & 1650 FEL (5)	C	ounty: Edd	у		ST: NM
Sec. 8 Blk: Survey:		TWP: 25S	RNG: 2	8E Prop. TVI	9584	TMD: 19288
INTAN	GIBLE COSTS 0180		CODE	ТСР	CODE	СС
Regulatory Permits & Surveys			0180-0100		0180-0200	\$5,000
Location / Road / Site / Preparation			0180-0105		0180-0205	\$25,000
Location / Restoration			0180-0106		0180-0206	\$25,000
Daywork / Turnkey / Footage Drilling Fuel	23 days drlg / 3 days comp @ \$2150	00/d	0180-0110		0180-0210	\$68,900
Mud, Chemical & Additives	1700 gal/day @ \$2.74/gal		0180-0114		0180-0214	\$585,000
Horizontal Drillout Services			0180-0120	\$200,000	0180-0220	\$250,000
Cementing	-		0180-0125	\$100,000	0180-0222	\$35,000
Logging & Wireline Services			0180-0130		0180-0230	\$625,000
Casing / Tubing / Snubbing Service			0180-0134		0180-0234	\$90,000
Mud Logging			0180-0137	\$30,000		
Stimulation	80 Stg 24.2 MM gal/ 24.2 MM lb				0180-0241	\$2,100,000
Stimulation Rentals & Other Water & Other					0180-0242	\$235,000
Bits			0180-0145		0180-0245	\$415,000
Inspection & Repair Services			0180-0148		0180-0248	\$8,000 \$5,000
Misc. Air & Pumping Services			0180-0154	\$40,000	0180-0254	\$10,000
Testing & Flowback Services			0180-0158	\$15,000	0180-0258	\$30,000
Completion / Workover Rig					0180-0260	\$10,500
Rig Mobilization			0180-0164	\$150,000		
Transportation			0180-0165		0180-0265	\$20,000
Welding Services			0180-0168		0180-0268	\$15,000
Contract Services & Supervision Directional Services	Includes Vertical 2		0180-0170		0180-0270	\$64,500
Equipment Rental	Includes Vertical Control		0180-0175	\$250,000	0180-0280	620,000
Well / Lease Legal		7-	0180-0184		0180-0280	\$30,000
Well / Lease Insurance		-	0180-0185		0180-0285	
Intangible Supplies EXHIB	TT C	_	0180-0188		0180-0288	\$1,000
Dallages	011	_	0180-0190		0180-0290	\$113,000
ROW & Easements		_	0180-0192		0180-0292	\$113,000
Pipeline Interconnect					0180-0293	
Company Supervision		<u></u>	0180-0195		0180-0295	\$110,400
Overhead Fixed Rate Well Abandonment		_	0180-0196	\$10,000	0180-0296	\$20,000
Contingencies	2% (TCP) 2% (CC)		0180-0198	0.17.000	0180-0298	
Contingencies	276 (TGP) 276 (CC)	70711	0180-0199	\$47,300	0180-0299	\$100,200
		TOTAL		\$2,411,000		\$5,109,500
	SIBLE COSTS 0181					
Casing (19.1" - 30") Casing (10.1" - 19.0")	4501 42 200 54 54 1 55 0 70 0 0 50	0.40/5	0181-0793	445.555		
Casing (8.1" - 19.0")	450' - 13 3/8" 54.5# J-55 ST&C @ \$3 2400' - 9 5/8" 40# HCL80 LT&C @ \$2		0181-0794	\$15,500		
Casing (6.1" - 8.0")	9700' - 7" 29# HCP-110 LT&C @ \$21		0181-0795	\$62,700 \$222,700		
Casing (4.1" - 6.0")			0101-0790	\$222,700		
for 1 1	10375' - 4 1/2" 13.5# P-110 BPN @ \$				10181-0797	\$130,200
Tubing	10375' - 4 1/2" 13.5# P-110 BPN @ \$ 8950' - 2 7/8" 6.5# EUE tbg @ \$4.54/				0181-0797	\$130,200 \$43,400
Drilling Head			0181-0860	\$40,000		\$130,200 \$43,400
Drilling Head Tubing Head & Upper Section			0181-0860	\$40,000		
Drilling Head Tubing Head & Upper Section Horizontal Completion Tools			0181-0860	\$40,000	0181-0798	\$43,400
Drilling Head Tubing Head & Upper Section Horizontal Completion Tools Sucker Rods	8950' - 2 7/8" 6.5# EUE tbg @ \$4.54/ Completion Liner Hanger		0181-0860	\$40,000	0181-0798 0181-0870 0181-0871 0181-0875	\$43,400 \$50,000 \$82,000
Drilling Head Tubing Head & Upper Section Horizontal Completion Tools Sucker Rods Subsurface Equipment	8950' - 2 7/8" 6.5# EUE tbg @ \$4.54/ Completion Liner Hanger Packer		0181-0860	\$40,000	0181-0798 0181-0870 0181-0871 0181-0875 0181-0880	\$43,400 \$50,000 \$82,000 \$10,000
Drilling Head Tubing Head & Upper Section Horizontal Completion Tools Sucker Rods Subsurface Equipment Artificial Lift Systems	8950' - 2 7/8" 6.5# EUE tbg @ \$4.54/ Completion Liner Hanger		0181-0860	\$40,000	0181-0798 0181-0870 0181-0871 0181-0875 0181-0880 0181-0884	\$43,400 \$50,000 \$82,000
Drilling Head Tubing Head & Upper Section Horizontal Completion Tools Sucker Rods Subsurface Equipment Artificial Lift Systems Pumping Unit	8950' - 2 7/8" 6.5# EUE tbg @ \$4.54/ Completion Liner Hanger Packer Gas Lift Valves		0181-0860	\$40,000	0181-0798 0181-0870 0181-0871 0181-0875 0181-0880 0181-0884 0181-0885	\$43,400 \$50,000 \$82,000 \$10,000 \$15,000
Drilling Head Tubing Head & Upper Section Horizontal Completion Tools Sucker Rods Subsurface Equipment Artificial Lift Systems	8950' - 2 7/8" 6.5# EUE tbg @ \$4.54/ Completion Liner Hanger Packer Gas Lift Valves pumps/VRU		0181-0860	\$40,000	0181-0798 0181-0870 0181-0871 0181-0875 0181-0880 0181-0884 0181-0885 0181-0886	\$43,400 \$50,000 \$82,000 \$10,000 \$15,000
Drilling Head Tubing Head & Upper Section Horizontal Completion Tools Sucker Rods Subsurface Equipment Artificial Lift Systems Pumping Unit Surface Pumps & Prime Movers Tanks - Oil Tanks - Water	8950' - 2 7/8" 6.5# EUE tbg @ \$4.54/ Completion Liner Hanger Packer Gas Lift Valves		0181-0860	\$40,000	0181-0798 0181-0870 0181-0871 0181-0875 0181-0880 0181-0884 0181-0885	\$43,400 \$50,000 \$82,000 \$10,000 \$15,000
Drilling Head Tubing Head & Upper Section Horizontal Completion Tools Sucker Rods Subsurface Equipment Artificial Lift Systems Pumping Unit Surface Pumps & Prime Movers Tanks - Oil Tanks - Water Separation / Treating Equipment	8950' - 2 7/8" 6.5# EUE tbg @ \$4.54/ Completion Liner Hanger Packer Gas Lift Valves pumps/VRU (1/4) 10 - 750 bbl (1/4) 7 - 750 bbl 1/4 - GB/30"x10'x1k# 3 ph/48"x15'x1	ft		\$40,000	0181-0798 0181-0870 0181-0871 0181-0875 0181-0880 0181-0884 0181-0886 0181-0886 0181-0890	\$43,400 \$50,000 \$82,000 \$10,000 \$15,000 \$32,000 \$54,000
Drilling Head Tubing Head & Upper Section Horizontal Completion Tools Sucker Rods Subsurface Equipment Artificial Lift Systems Pumping Unit Surface Pumps & Prime Movers Tanks - Oil Tanks - Water Separation / Treating Equipment Heater Treaters, Line Heaters	8950' - 2 7/8" 6.5# EUE tbg @ \$4.54/ Completion Liner Hanger Packer Gas Lift Valves pumps/VRU (1/4) 10 - 750 bbl (1/4) 7 - 750 bbl	ft		\$40,000	0181-0798 0181-0870 0181-0871 0181-0875 0181-0880 0181-0884 0181-0886 0181-0886 0181-0890 0181-0891	\$43,400 \$50,000 \$82,000 \$10,000 \$15,000 \$32,000 \$54,000 \$35,000
Drilling Head Tubing Head & Upper Section Horizontal Completion Tools Sucker Rods Subsurface Equipment Artificial Lift Systems Pumping Unit Surface Pumps & Prime Movers Tanks - Oil Tanks - Water Separation / Treating Equipment Heater Treaters, Line Heaters Metering Equipment	8950' - 2 7/8" 6.5# EUE tbg @ \$4.54/ Completion Liner Hanger Packer Gas Lift Valves pumps/VRU (1/4) 10 - 750 bbl (1/4) 7 - 750 bbl 1/4 - 68/30"x10"x16# 3 ph/48"x15'x1 1/4 - 8'x20'x75# HT	ft		\$40,000	0181-0798 0181-0870 0181-0875 0181-0880 0181-0884 0181-0885 0181-0896 0181-0896 0181-0897 0181-0897 0181-0897	\$43,400 \$50,000 \$82,000 \$10,000 \$15,000 \$32,000 \$54,000 \$35,000 \$122,000 \$26,000 \$15,000
Drilling Head Tubing Head & Upper Section Horizontal Completion Tools Sucker Rods Subsurface Equipment Artificial Lift Systems Pumping Unit Surface Pumps & Prime Movers Tanks - Oil Tanks - Water Separation / Treating Equipment Heater Treaters, Line Heaters Metering Equipment Line Pipe & Valves - Gathering	8950' - 2 7/8" 6.5# EUE tbg @ \$4.54/ Completion Liner Hanger Packer Gas Lift Valves pumps/VRU (1/4) 10 - 750 bbl (1/4) 7 - 750 bbl 1/4 - GB/30"x10'x1k# 3 ph/48"x15'x1	ft		\$40,000	0181-0798 0181-0870 0181-0871 0181-0875 0181-0880 0181-0885 0181-0896 0181-0897 0181-0897 0181-0899 0181-0898 0181-0899	\$43,400 \$50,000 \$82,000 \$10,000 \$15,000 \$32,000 \$54,000 \$122,000 \$26,000 \$15,000 \$13,000
Drilling Head Tubing Head & Upper Section Horizontal Completion Tools Sucker Rods Subsurface Equipment Artificial Lift Systems Pumping Unit Surface Pumps & Prime Movers Tanks - Oil Tanks - Water Separation / Treating Equipment Heater Treaters, Line Heaters Metering Equipment Line Pipe & Valves - Gathering Fittings / Valves & Accessories	8950' - 2 7/8" 6.5# EUE tbg @ \$4.54/ Completion Liner Hanger Packer Gas Lift Valves pumps/VRU (1/4) 10 - 750 bbl (1/4) 7 - 750 bbl 1/4 - 68/30"x10"x16# 3 ph/48"x15'x1 1/4 - 8'x20'x75# HT	ft		\$40,000	0181-0798 0181-0870 0181-0871 0181-0875 0181-0880 0181-0884 0181-0886 0181-0890 0181-0891 0181-0895 0181-0898 0181-0900 0181-0906	\$43,400 \$50,000 \$82,000 \$10,000 \$15,000 \$32,000 \$54,000 \$35,000 \$122,000 \$15,000 \$13,000 \$138,000
Drilling Head Tubing Head & Upper Section Horizontal Completion Tools Sucker Rods Subsurface Equipment Artificial Lift Systems Pumping Unit Surface Pumps & Prime Movers Tanks - Oil Tanks - Water Separation / Treating Equipment Heater Treaters, Line Heaters Metering Equipment Line Pipe & Valves - Gathering	8950' - 2 7/8" 6.5# EUE tbg @ \$4.54/ Completion Liner Hanger Packer Gas Lift Valves pumps/VRU (1/4) 10 - 750 bbl (1/4) 7 - 750 bbl 1/4 - 68/30"x10"x16# 3 ph/48"x15'x1 1/4 - 8'x20'x75# HT	ft		\$40,000	0181-0798 0181-0870 0181-0871 0181-0880 0181-0886 0181-0885 0181-0896 0181-0896 0181-0897 0181-0897 0181-0906 0181-0900 0181-0900	\$43,400 \$50,000 \$82,000 \$10,000 \$15,000 \$32,000 \$35,000 \$122,000 \$26,000 \$15,000 \$13,000 \$138,000 \$29,000
Drilling Head Tubing Head & Upper Section Horizontal Completion Tools Sucker Rods Subsurface Equipment Artificial Lift Systems Pumping Unit Surface Pumps & Prime Movers Tanks - Oil Tanks - Water Separation / Treating Equipment Heater Treaters, Line Heaters Metering Equipment Line Pipe & Valves - Gathering Fittings / Valves & Accessories Cathodic Protection Electrical Installation	8950' - 2 7/8" 6.5# EUE tbg @ \$4.54/ Completion Liner Hanger Packer Gas Lift Valves pumps/VRU (1/4) 10 - 750 bbl (1/4) 7 - 750 bbl 1/4 - 68/30"x10"x16# 3 ph/48"x15'x1 1/4 - 8'x20'x75# HT	ft		\$40,000	0181-0798 0181-0870 0181-0871 0181-0875 0181-0880 0181-0884 0181-0885 0181-0890 0181-0891 0181-0897 0181-0900 0181-0900 0181-0900 0181-0900 0181-0900	\$43,400 \$50,000 \$82,000 \$10,000 \$15,000 \$34,000 \$35,000 \$122,000 \$26,000 \$15,000 \$138,000 \$138,000 \$38,000
Drilling Head Tubing Head & Upper Section Horizontal Completion Tools Sucker Rods Subsurface Equipment Artificial Lift Systems Pumping Unit Surface Pumps & Prime Movers Tanks - Oil Tanks - Water Separation / Treating Equipment Heater Treaters, Line Heaters Metering Equipment Line Pipe & Valves - Gathering Fittings / Valves & Accessories Cathodic Protection	8950' - 2 7/8" 6.5# EUE tbg @ \$4.54/ Completion Liner Hanger Packer Gas Lift Valves pumps/VRU (1/4) 10 - 750 bbl (1/4) 7 - 750 bbl 1/4 - 68/30"x10"x16# 3 ph/48"x15'x1 1/4 - 8'x20'x75# HT	ft		\$40,000	0181-0798 0181-0870 0181-0871 0181-0880 0181-0886 0181-0886 0181-0896 0181-0890 0181-0897 0181-0897 0181-0909 0181-0908 0181-0909 0181-0909 0181-0909 0181-0909	\$43,400 \$50,000 \$82,000 \$10,000 \$15,000 \$32,000 \$35,000 \$122,000 \$26,000 \$15,000 \$13,000 \$138,000 \$38,000 \$38,000
Drilling Head Tubing Head & Upper Section Horizontal Completion Tools Sucker Rods Subsurface Equipment Artificial Lift Systems Pumping Unit Surface Pumps & Prime Movers Tanks - Oil Tanks - Water Separation / Treating Equipment Heater Treaters, Line Heaters Metering Equipment Line Pipe & Valves - Gathering Fittings / Valves & Accessories Cathodic Protection Electrical Installation Equipment Installation	8950' - 2 7/8" 6.5# EUE tbg @ \$4.54/ Completion Liner Hanger Packer Gas Lift Valves pumps//RU (1/4) 10 - 750 bbl (1/4) 7 - 750 bbl 1/4 - GB/30"x10'x1k# 3 ph/48"x15'x1 1/4 - 8'x20'x75# HT 1/4 - 1 mile gas line	ft lk# Hor 3ph/1/2VR			0181-0798 0181-0870 0181-0871 0181-0875 0181-0880 0181-0884 0181-0885 0181-0890 0181-0897 0181-0897 0181-0900 0181-0900 0181-0909 0181-0909 0181-0909 0181-0909 0181-0909 0181-0909 0181-0909	\$43,400 \$50,000 \$82,000 \$10,000 \$15,000 \$32,000 \$34,000 \$35,000 \$122,000 \$26,000 \$13,000 \$138,000 \$29,000 \$38,000 \$32,000
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Drilling Head Tubing Head & Upper Section Horizontal Completion Tools Sucker Rods Subsurface Equipment Artificial Lift Systems Pumping Unit Surface Pumps & Prime Movers Tanks - Oil Tanks - Water Separation / Treating Equipment Heater Treaters, Line Heaters Metering Equipment Line Pipe & Valves - Gathering Fittings / Valves & Accessories Cathodic Protection Electrical Installation Equipment Installation Pipeline Construction	8950' - 2 7/8" 6.5# EUE tbg @ \$4.54/ Completion Liner Hanger Packer Gas Lift Valves pumps/VRU (1/4) 10 - 750 bbl (1/4) 7 - 750 bbl 1/4 - 6B/30"x10"x16# 3 ph/48"x15'x1 1/4 - 8'x20"x75# HT 1/4 - 1 mile gas line TOTAL V	tk# Hor 3ph/1/2VR TOTAL SUBTOTAL VELL COST		\$340,900 \$2,751,900 \$8,8	0181-0798 0181-0870 0181-0871 0181-0875 0181-0880 0181-0884 0181-0886 0181-0890 0181-0891 0181-0895 0181-0990 0181-0900 0181-0900 0181-0900 0181-0900 0181-0900 0181-0900	\$43,400 \$50,000 \$82,000 \$10,000 \$15,000 \$32,000 \$35,000 \$122,000 \$26,000 \$13,000 \$138,000 \$29,000 \$38,000 \$32,000 \$32,000
Drilling Head Tubing Head & Upper Section Horizontal Completion Tools Sucker Rods Subsurface Equipment Artificial Lift Systems Pumping Unit Surface Pumps & Prime Movers Tanks - Oil Tanks - Water Separation / Treating Equipment Heater Treaters, Line Heaters Metering Equipment Line Pipe & Valves - Gathering Fittings / Valves & Accessories Cathodic Protection Electrical Installation Equipment Installation Pipeline Construction Extra Expense Insurance	8950' - 2 7/8" 6.5# EUE tbg @ \$4.54/ Completion Liner Hanger Packer Gas Lift Valves pumps/NRU (1/4) 10 - 750 bbl (1/4) 7 - 750 bbl 1/4 - GB/30"x10'x1k# 3 ph/48"x15'x1 1/4 - 1 mile gas line TOTAL Values TOTAL Values TOTAL Values Total values and the second	TOTAL SUBTOTAL VELL COST	Donate share of	\$340,900 \$2,751,900 \$8,8	0181-0798 0181-0870 0181-0870 0181-0870 0181-0880 0181-0886 0181-0886 0181-0890 0181-0897 0181-0990 0181-0900 0181-0900 0181-0900	\$43,400 \$50,000 \$82,000 \$10,000 \$15,000 \$32,000 \$34,000 \$35,000 \$122,000 \$15,000 \$13,000 \$138,000 \$29,000 \$38,000 \$38,000 \$32,000 \$36,000 \$
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Drilling Head Tubing Head & Upper Section Horizontal Completion Tools Sucker Rods Subsurface Equipment Artificial Lift Systems Pumping Unit Surface Pumps & Prime Movers Tanks - Oil Tanks - Water Separation / Treating Equipment Heater Treaters, Line Heaters Metering Equipment Line Pipe & Valves - Gathering Fittings / Valves & Accessories Cathodic Protection Electrical Installation Equipment Installation Pipeline Construction Extra Expense Insurance I elect to be covered by Opoperator has secured Extra I elect to purchase my own If neither box is checked above, non-operating wor	Completion Liner Hanger Packer Gas Lift Valves pumps/VRU (1/4) 10 - 750 bbl (1/4) 7 - 750 bbl 1/4 - 6B/30"x10"x1k# 3 ph/48"x15'x1 1/4 - 8'x20"x75# HT 1/4 - 1 mile gas line TOTAL Valves Decrator's Extra Expense Insurance and Expense Insurance policy. king interest owner elects to be covered by O	TOTAL SUBTOTAL VELL COST d pay my proportic ell control, clean up	onate share of and redrilling	\$340,900 \$2,751,900 \$8,8 f the premium. as estimated in L	0181-0798 0181-0870 0181-0870 0181-0870 0181-0880 0181-0886 0181-0886 0181-0890 0181-0897 0181-0990 0181-0900 0181-0900 0181-0900	\$43,400 \$50,000 \$82,000 \$10,000 \$15,000 \$32,000 \$34,000 \$35,000 \$122,000 \$15,000 \$13,000 \$138,000 \$29,000 \$38,000 \$38,000 \$32,000 \$36,000 \$
Drilling Head Tubing Head & Upper Section Horizontal Completion Tools Sucker Rods Subsurface Equipment Artificial Lift Systems Pumping Unit Surface Pumps & Prime Movers Tanks - Oil Tanks - Water Separation / Treating Equipment Heater Treaters, Line Heaters Metering Equipment Line Pipe & Valves - Gathering Fittings / Valves & Accessories Cathodic Protection Electrical Installation Equipment Installation Equipment Installation Pipeline Construction Extra Expense Insurance I elect to be covered by Operator has secured Extra I elect to purchase my own If neither box is checked above, non-operating wor	Completion Liner Hanger Packer Gas Lift Valves pumps/VRU (1/4) 10 - 750 bbl (1/4) 7 - 750 bbl 1/4 - GB/30"x10'x1k# 3 ph/48"x15'x1 1/4 - 8 "x20"x75# HT 1/4 - 1 mile gas line TOTAL V Derator's Extra Expense Insurance an Expense Insurance covering costs of win well control insurance policy. king interest owner elects to be covered by O Levi Jackson	TOTAL SUBTOTAL VELL COST d pay my proporticell control, clean up	onate share of and redrilling	\$340,900 \$2,751,900 \$8,8 f the premium. as estimated in L	0181-0798 0181-0870 0181-0870 0181-0870 0181-0880 0181-0886 0181-0886 0181-0890 0181-0897 0181-0990 0181-0900 0181-0900 0181-0900	\$43,400 \$50,000 \$82,000 \$10,000 \$15,000 \$32,000 \$34,000 \$35,000 \$122,000 \$15,000 \$13,000 \$138,000 \$29,000 \$38,000 \$38,000 \$32,000 \$40,000 \$
Drilling Head Tubing Head & Upper Section Horizontal Completion Tools Sucker Rods Subsurface Equipment Artificial Lift Systems Pumping Unit Surface Pumps & Prime Movers Tanks - Oil Tanks - Water Separation / Treating Equipment Heater Treaters, Line Heaters Metering Equipment Line Pipe & Valves - Gathering Fittings / Valves & Accessories Cathodic Protection Electrical Installation Equipment Installation Equipment Installation Pipeline Construction Extra Expense Insurance I elect to be covered by Operator has secured Extra I elect to purchase my own If neither box is checked above, non-operating wor	Completion Liner Hanger Packer Gas Lift Valves pumps/VRU (1/4) 10 - 750 bbl (1/4) 7 - 750 bbl 1/4 - 6B/30"x10"x1k# 3 ph/48"x15'x1 1/4 - 8'x20"x75# HT 1/4 - 1 mile gas line TOTAL Valves Decrator's Extra Expense Insurance and Expense Insurance policy. king interest owner elects to be covered by O	TOTAL SUBTOTAL VELL COST d pay my proporticell control in Control	onate share of and redrilling insurance.	\$340,900 \$2,751,900 \$8,8 If the premium. as estimated in L	0181-0798 0181-0870 0181-0870 0181-0870 0181-0880 0181-0886 0181-0896 0181-0890 0181-0897 0181-0908 0181-0900 0181-0900 0181-0900	\$43,400 \$50,000 \$82,000 \$10,000 \$15,000 \$32,000 \$354,000 \$35,000 \$122,000 \$15,000 \$138,000 \$138,000 \$29,000 \$38,000 \$88,000 \$32,000 \$952,600 \$6,062,100
Drilling Head Tubing Head & Upper Section Horizontal Completion Tools Sucker Rods Subsurface Equipment Artificial Lift Systems Pumping Unit Surface Pumps & Prime Movers Tanks - Oil Tanks - Water Separation / Treating Equipment Heater Treaters, Line Heaters Metering Equipment Line Pipe & Valves - Gathering Fittings / Valves & Accessories Cathodic Protection Electrical Installation Equipment Installation Pipeline Construction Extra Expense Insurance i elect to be covered by Opoperator has secured Extra lelect to purchase my own If neither box is checked above, non-operating word Prepared by: Company Approval:	Completion Liner Hanger Packer Gas Lift Valves pumps/VRU (1/4) 10 - 750 bbl (1/4) 7 - 750 bbl 1/4 - GB/30"x10'x1k# 3 ph/48"x15'x1 1/4 - 8 "x20"x75# HT 1/4 - 1 mile gas line TOTAL V Derator's Extra Expense Insurance an Expense Insurance covering costs of win well control insurance policy. king interest owner elects to be covered by O Levi Jackson	TOTAL SUBTOTAL VELL COST d pay my proporticell control in Control	conate share of and redniling insurance. 2/25/202 2/25/202 2/25/202	\$340,900 \$2,751,900 \$8,8 If the premium. as estimated in L	0181-0798 0181-0870 0181-0870 0181-0870 0181-0880 0181-0886 0181-0896 0181-0890 0181-0897 0181-0908 0181-0900 0181-0900 0181-0900	\$43,400 \$50,000 \$82,000 \$10,000 \$15,000 \$32,000 \$354,000 \$35,000 \$122,000 \$15,000 \$13,000 \$138,000 \$29,000 \$38,000 \$88,000 \$32,000 \$952,600 \$6,062,100

AUTHORIZATION FOR EXPENDITURE

Well Name: PALE RIDER 8/5 W00B	ST COM #1H	P	ros	pect: PAL	E RIDER 8/5 (B	lack Lake	5/Devor	Fee 8)
Location: SL: 260 FSL & 1360 FEL(8); BHL: 330 FNL & 2310 FEL (5)		Co	ounty: Edd	ly		ST	: NM
Sec. 8 Bik: Survey:		TWP: 25	5\$	RNG:	Prop. TVD	9380	TMD:	19184
INTANO	GIBLE COSTS 0180			CODE	ТСР	CODE		00
Regulatory Permits & Surveys	31BLE CO313 0100		ur parados	0180-0100		0180-0200		\$5,000
Location / Road / Site / Preparation				0180-0105	\$75,000	0180-0205		\$25,000
Location / Restoration Daywork / Turnkey / Footage Drilling				0180-0106		0180-0206		\$25,000
Fuel Fuel	23 days drig / 3 days comp @ \$2150 1700 gal/day @ \$2.74/gal)0/d	_	0180-0110		0180-0210		\$68,900 \$585,000
Mud, Chemical & Additives	1700 garday @ \$2.74/gai			0180-0114		0180-0214		\$565,000
Horizontal Drillout Services	***					0180-0222		\$250,000
Cementing	-		_	0180-0125		0180-0225		\$35,000
Logging & Wireline Services Casing / Tubing / Snubbing Service			_	0180-0130		0180-0230		\$625,000
Mud Logging	NA. 6 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)			0180-0137	\$30,000	0100-0234		\$30,000
Stimulation	80 Stg 24.2 MM gal/ 24.2 MM lb					0180-0241	\$	2,100,000
Stimulation Rentals & Other Water & Other				0400 0445	450.000	0180-0242		\$235,000
Bits				0180-0145 0180-0148		0180-0245		\$415,000
Inspection & Repair Services				0180-0150		0180-0250		\$5,000
Misc. Air & Pumping Services				0180-0154		0180-0254		\$10,000
Testing & Flowback Services	V-100			0180-0158	\$15,000	THE RESERVE OF THE PARTY OF THE		\$30,000
Completion / Workover Rig Rig Mobilization				0180-0164	\$150,000	0180-0260		\$10,500
Transportation	***************************************			0180-0165		0180-0265		\$20,000
Welding Services				0180-0158	\$5,000	0180-0268		\$15,000
Contract Services & Supervision				0180-0170	\$39,000	0180-0270		\$64,500
Directional Services Equipment Rental	Includes Vertical Control		_	0180-0175	\$250,000	0180-0280		\$30,000
Well / Lease Legal				0180-0184		0180-0284		\$30,000
Well / Lease Insurance				0180-0185		0180-0285		
Intangible Supplies				0180-0188	\$8,000			\$1,000
ROW & Easements				0180-0190	\$50,000			\$113,000
Pipeline Interconnect				0180-0192		0180-0292		\$113,000
Company Supervision				0180-0195	\$124,800	0180-0295		\$110,400
Overhead Fixed Rate				0180-0196	\$10,000			\$20,000
Well Abandonment				0180-0198		0180-0298		
Contingencies	2% (TCP) 2% (CC)	707		0180-0199	\$47,300	0180-0299		\$100,200
TANG	IDI E OCCUPA ALCA	TOT	AL		\$2,411,000		3	5,109,500
Casing (19.1" - 30")	IBLE COSTS 0181			0181-0793				
Casing (10.1" - 19.0")	450' - 13 3/8" 54.5# J-55 ST&C @ \$3	2.16/ft		0181-0794	\$15,500			
Casing (8.1" - 10.0")	2400' - 9 5/8" 40# HCL80 LT&C @ \$2			0181-0795	\$62,700			
Casing (6.1" - 8.0")	9600' - 7" 29# HCP-110 LT&C @ \$21			0181-0796	\$220,400			
Casing (4.1" - 6.0") Tubing	10340' - 4 1/2" 13.5# P-110 BPN @ \$ 8850' - 2 7/8" 6.5# EUE tbg @ \$4.54/					0181-0797		\$129,800 \$42,900
Drilling Head	2110 1111 202 103 8 411011		-	0181-0860	\$40,000	0101-0750		342,800
Tubing Head & Upper Section						0181-0870		\$50,000
Horizontal Completion Tools Sucker Rods	Completion Liner Hanger		_			0181-0871		\$82,000
Subsurface Equipment	Packer					0181-0875		\$10,000
Artificial Lift Systems	Gas Lift Valves					0181-0884		\$15,000
Pumping Unit						0181-0885		
Surface Pumps & Prime Movers Tanks - Oil	pumps/VRU (1/4) 10 - 750 bbl					0181-0886		\$32,000
Tanks - Water	(1/4) 7 - 750 bbl					0181-0890		\$54,000 \$35,000
Separation / Treating Equipment	1/4 - GB/30"x10'x1k# 3 ph/48"x15'x1	1k# Hor 3ph/1/2	VRI			0181-0895		\$122,000
Heater Treaters, Line Heaters Metering Equipment	1/4 - 8'x20'x75# HT					0181-0897		\$26,000
Line Pipe & Valves - Gathering	1/4 - 1 mile gas line					0181-0898		\$15,000
Fittings / Valves & Accessories	I mine ges mile					0181-0900		\$13,000 \$138,000
Cathodic Protection						0181-0908		\$29,000
Electrical Installation						0181-0909		\$38,000
Equipment Installation Pipeline Construction	1/4 - 1 mile gas line					0181-0910		\$88,000
Tipeline Constitution	174 - 1 mile gas mile	TOT	· A 1		*****	0181-0920		
		тот			\$338,600			\$951,700
		SUBTOT	AL		\$2,749,600			\$6,061,200
	TOTAL V	WELL COST	Γ		\$8,8	10,800		
Extra Expense Insurance I elect to be covered by Operator has secured Extra	erator's Extra Expense Insurance an Expense Insurance covering costs of w	d pay my propo vell control, clear	ortio n up	onate share of	of the premium. g as estimated in L	ine Item 018	0-0185	
	well control insurance policy.							
If neither box is checked above, non-operating work	ting interest owner elects to be covered by O	perator's well con	trol in	nsurance.				
Prepared by:	Levi Jackson		Date:	2/25/20	20			
Company Approval: 772 - 4	state		Date:	2/25/20	20_			
Joint Owner Interest:	Amount:	Jeff Gas	ch.	- Wigner Pyre	esident of De	elaware E	asin	3.67 Mark
Joint Owner Name: COG Ope	erating LLC	Signature:	14	f Gascli				

Well Name: PALE RIDER 8/5 WOI	PA ST COM #1H	Pr	ospect:	PALE RIDER 8/5 (Black Lake	E/Deven Fo
Location: SL: 260 FSL & 1300 FE					DIACK Lake	
Sec. 8 Bik: Survey:	.L(0), BIIL. 550 FRE & 950 FEE (5)		County:			ST:!
occ. o bik. Survey.		TWP: 25	RNG	: 28E Prop. TV	D: 9394	TMD: 191
	ANGIBLE COSTS 0180		COD		CODE	CC
Regulatory Permits & Surveys Location / Road / Site / Preparation			0180-0		0 0180-0200	
Location / Restoration			0180-0		0 0180-0205	\$:
Daywork / Turnkey / Footage Drilling	23 days drlg / 3 days comp @ \$21	500/d	0180-0		0 0180-0208	\$:
Fuel	1700 gal/day @ \$2.74/gal		0180-0		0180-0214	\$5
Mud, Chemical & Additives			0180-0		0180-0220	
Horizontal Drillout Services					0180-0222	\$2
Cementing Logging & Wireline Services			0180-0		0180-0225	\$:
Casing / Tubing / Snubbing Service			0180-0		0 0180-0230	\$6: \$
Mud Logging			0180-0			4
Stimulation	80 Stg 24.2 MM gal/ 24.2 MM lb				0180-0241	\$2,1
Stimulation Rentals & Other Water & Other					0180-0242	\$2
Bits			0180-0		0180-0245	\$4
Inspection & Repair Services			0180-0		0 0180-0248	
Misc. Air & Pumping Services	100		0180-0		0180-0250	\$
Testing & Flowback Services			0180-0		0180-0254	\$
Completion / Workover Rig					0180-0260	\$
Rig Mobilization			0180-0			
Transportation Welding Services			0180-0		0180-0265	\$:
Contract Services & Supervision			0180-0		0 0180-0268	\$
Directional Services	Includes Vertical Control		0180-0			\$1
Equipment Rental			0180-0		0180-0280	\$:
Well / Lease Legal			0180-0	184 \$5,000	0180-0284	
Well / Lease Insurance			0180-0		0180-0285	
ntangible Supplies Damages			0180-0		0180-0288	
ROW & Easements			0180-0		0180-0290	\$1
Pipeline Interconnect			0180-0	192	0180-0292	\$1
Company Supervision			0180-0	195 \$124,800	0180-0295	\$1
Overhead Fixed Rate			0180-0		0180-0296	\$3
Well Abandonment			0180-0		0180-0298	
Contingencies	2% (TCP) 2% (CC)		0180-0		0180-0299	\$10
		TOTA		\$2,411,000		\$5,10
TA Casing (19.1" - 30")	NGIBLE COSTS 0181					
Casing (10.1" - 19.0")	450' - 13 3/8" 54.5# J-55 ST&C @ \$	\$32.16/ft	0181-0		-	
Casing (8.1" - 10.0")	2400' - 9 5/8" 40# HCL80 LT&C @ :		0181-0			
Casing (6.1" - 8.0")	9550' - 7" 29# HCP-110 LT&C @ \$2		0181-0			
Casing (4.1" - 6.0") Tubing	10300' - 4 1/2" 13.5# P-110 BPN @	\$11.75/ft			0181-0797	\$12
lubing		4/ft			0404 0700	
	8875' - 2 7/8" 6.5# EUE tbg @ \$4.5		2424.0	210.00	0181-0798	\$4
Orilling Head	0013 -2 110 0.0# EUE tug @ \$4.5		0181-0	\$40,000		
			0181-0	360 \$40,000	0181-0870	\$5
Orilling Head Tubing Head & Upper Section Horizontal Completion Tools Sucker Rods	Completion Liner Hanger		0181-0	\$40,000	0181-0870 0181-0871	
Orilling Head Tubing Head & Upper Section Horizontal Completion Tools Sucker Rods Subsurface Equipment			0181-00	\$40,000	0181-0870	\$5
Orilling Head Fubing Head & Upper Section Horizontal Completion Tools Sucker Rods Subsurface Equipment Artificial Lift Systems	Completion Liner Hanger		0181-0	\$40,000	0181-0870 0181-0871 0181-0875	\$5
Drilling Head Tubing Head & Upper Section Horizontal Completion Tools Sucker Rods Subsurface Equipment Artificial Lift Systems Pumping Unit	Completion Liner Hanger Packer Gas Lift Valves		0181-0	\$40,000	0181-0870 0181-0871 0181-0875 0181-0880 0181-0884 0181-0885	\$: \$: \$: \$:
Orilling Head Tubing Head & Upper Section Horizontal Completion Tools Sucker Rods Subsurface Equipment Artificial Lift Systems	Completion Liner Hanger Packer Gas Lift Valves pumps/VRU		0181-0	\$40,000	0181-0870 0181-0871 0181-0875 0181-0880 0181-0884 0181-0885 0181-0886	\$1
Orilling Head Tubing Head & Upper Section Horizontal Completion Tools Sucker Rods Subsurface Equipment Artificial Lift Systems Pumping Unit Surface Pumps & Prime Movers	Completion Liner Hanger Packer Gas Lift Valves		0181-0	\$40,000	0 181-0870 0181-0871 0181-0875 0181-0880 0181-0884 0181-0885 0181-0890	\$ 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
Orilling Head Fubing Head & Upper Section Horizontal Completion Tools Sucker Rods Subsurface Equipment Artificial Lift Systems Pumping Unit Surface Pumps & Prime Movers Fanks - Oil Fanks - Water Geparation / Treating Equipment	Completion Liner Hanger Packer Gas Lift Valves pumps/VRU (1/4) 10 - 750 bbl (1/4) 7 - 750 bbl 1/4 - GB/30"x10"x1k# 3 ph/48"x15";			\$40,000	0181-0870 0181-0871 0181-0875 0181-0880 0181-0884 0181-0885 0181-0886	\$1
Orilling Head Fubing Head & Upper Section Horizontal Completion Tools Sucker Rods Subsurface Equipment Artificial Lift Systems Pumping Unit Surface Pumps & Prime Movers Tanks - Oil Tanks - Water Geparation / Treating Equipment Heater Treaters, Line Heaters	Completion Liner Hanger Packer Gas Lift Valves pumps/VRU (1/4) 10 - 750 bbl (1/4) 7 - 750 bbl			\$40,000	0 0181-0870 0181-0871 0181-0875 0181-0885 0181-0884 0181-0885 0181-0886 0181-0890 0181-0891	\$: \$ \$ \$ \$: \$:
Orilling Head Fubing Head & Upper Section Horizontal Completion Tools Sucker Rods Subsurface Equipment Artificial Lift Systems Pumping Unit Surface Pumps & Prime Movers Fanks - Oil Tanks - Water Separation / Treating Equipment Heater Treaters, Line Heaters Metering Equipment	Completion Liner Hanger Packer Gas Lift Valves pumps/VRU (1/4) 10 - 750 bbl (1/4) 7 - 750 bbl 1/4 - GB/30"x10"x1k# 3 ph/48"x15") 1/4 - 8"x20"x75# HT			\$40,000	0181-0870 0181-0871 0181-0871 0181-0880 0181-0884 0181-0885 0181-0890 0181-0890 0181-0897 0181-0897 0181-0897	\$: \$: \$: \$: \$: \$: \$: \$: \$: \$: \$: \$: \$: \$
Orilling Head Fubing Head & Upper Section Fubing Head & Fubing Head Fubing Head & Fubing Head Fubing Head & Fubing Head Fu	Completion Liner Hanger Packer Gas Lift Valves pumps/VRU (1/4) 10 - 750 bbl (1/4) 7 - 750 bbl 1/4 - GB/30"x10"x1k# 3 ph/48"x15";			\$40,000	0181-0870 0181-0871 0181-0871 0181-0880 0181-0884 0181-0885 0181-0890 0181-0890 0181-0890 0181-0897 0181-0897 0181-0898	\$: \$: \$: \$: \$: \$: \$: \$: \$: \$: \$: \$: \$: \$
Orilling Head Tubing Head & Upper Section Horizontal Completion Tools Sucker Rods Subsurface Equipment Artificial Lift Systems Pumping Unit Surface Pumps & Prime Movers Fanks - Oil	Completion Liner Hanger Packer Gas Lift Valves pumps/VRU (1/4) 10 - 750 bbl (1/4) 7 - 750 bbl 1/4 - GB/30"x10"x1k# 3 ph/48"x15") 1/4 - 8"x20"x75# HT			\$40,000	0181-0870 0181-0871 0181-0875 0181-0886 0181-0886 0181-0886 0181-0896 0181-0890 0181-0897 0181-0898 0181-0898 0181-0898 0181-0899	\$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1
Orilling Head Cubing Head & Upper Section Horizontal Completion Tools Sucker Rods Subsurface Equipment Artificial Lift Systems Pumping Unit Surface Pumps & Prime Movers Tanks - Oil Tanks - Oil Tanks - Water Deparation / Treating Equipment Heater Treaters, Line Heaters Metering Equipment Line Pipe & Valves - Gathering Tittings / Valves & Accessories Cathodic Protection	Completion Liner Hanger Packer Gas Lift Valves pumps/VRU (1/4) 10 - 750 bbl (1/4) 7 - 750 bbl 1/4 - GB/30"x10"x1k# 3 ph/48"x15") 1/4 - 8"x20"x75# HT			\$40,000	0181-0870 0181-0871 0181-0875 0181-0880 0181-0886 0181-0885 0181-0890 0181-0891 0181-0891 0181-0897 0181-0897 0181-0906 0181-0906	\$1 \$5 \$5 \$5 \$1 \$12 \$2 \$5 \$1 \$12 \$12 \$12 \$12 \$12 \$12 \$12 \$12 \$12
Orilling Head Fubing Head & Upper Section Horizontal Completion Tools Sucker Rods Subsurface Equipment Artificial Lift Systems Pumping Unit Surface Pumps & Prime Movers Tanks - Oil Tanks - Oil Teating Equipment Heater Treaters, Line Heaters Metering Equipment Jine Pipe & Valves - Gathering Tittings / Valves & Accessories Tathodic Protection Electrical Installation Equipment Installation	Completion Liner Hanger Packer Gas Lift Valves pumps/VRU (1/4) 10 - 750 bbl (1/4) 7 - 750 bbl 1/4 - 6B/30"x10"x1k# 3 ph/48"x15" 1/4 - 8'x20'x75# HT 1/4 - 1 mile gas line			\$40,000	0181-0870 0181-0871 0181-0875 0181-0886 0181-0886 0181-0886 0181-0896 0181-0890 0181-0897 0181-0898 0181-0898 0181-0898 0181-0899	\$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1
Orilling Head Fubing Head & Upper Section Horizontal Completion Tools Sucker Rods Subsurface Equipment Artificial Lift Systems Pumping Unit Surface Pumps & Prime Movers Tanks - Oil Tanks - Oil Teating Equipment Heater Treaters, Line Heaters Metering Equipment Jine Pipe & Valves - Gathering Tittings / Valves & Accessories Tathodic Protection Electrical Installation Equipment Installation	Completion Liner Hanger Packer Gas Lift Valves pumps/VRU (1/4) 10 - 750 bbl (1/4) 7 - 750 bbl 1/4 - GB/30"x10"x1k# 3 ph/48"x15") 1/4 - 8"x20"x75# HT			\$40,000	0181-0870 0181-0875 0181-0875 0181-0880 0181-0886 0181-0886 0181-0890 0181-0891 0181-0897 0181-0999 0181-0909 0181-0908	\$12 \$12 \$12 \$12 \$12 \$13 \$13 \$13 \$13 \$13 \$13 \$13 \$13
Orilling Head Tubing Head & Upper Section Horizontal Completion Tools Sucker Rods Subsurface Equipment Artificial Lift Systems Pumping Unit Surface Pumps & Prime Movers Tanks - Oil Tanks - Water Separation / Treating Equipment Heater Treaters, Line Heaters Metering Equipment Line Pipe & Valves - Gathering Sittings / Valves & Accessories	Completion Liner Hanger Packer Gas Lift Valves pumps/VRU (1/4) 10 - 750 bbl (1/4) 7 - 750 bbl 1/4 - 6B/30"x10"x1k# 3 ph/48"x15" 1/4 - 8'x20'x75# HT 1/4 - 1 mile gas line		R	\$337,500	0181-0870 0181-0871 0181-0875 0181-0880 0181-0886 0181-0886 0181-0896 0181-0896 0181-0897 0181-0897 0181-0998 0181-0909 0181-0909 0181-0909 0181-0909 0181-0909	\$12 \$13 \$13 \$12 \$13 \$13 \$13 \$13 \$13 \$13 \$13 \$13 \$13 \$13
Orilling Head Fubing Head & Upper Section Horizontal Completion Tools Sucker Rods Subsurface Equipment Artificial Lift Systems Pumping Unit Surface Pumps & Prime Movers Tanks - Oil Tanks - Oil Teating Equipment Heater Treaters, Line Heaters Metering Equipment Jine Pipe & Valves - Gathering Tittings / Valves & Accessories Tathodic Protection Electrical Installation Equipment Installation	Completion Liner Hanger Packer Gas Lift Valves pumps/VRU (1/4) 10 - 750 bbl (1/4) 7 - 750 bbl 1/4 - 6B/30"x10"x1k# 3 ph/48"x15" 1/4 - 8'x20'x75# HT 1/4 - 1 mile gas line	x1k# Hor 3ph/1/2V TOTA	RR	\$337,500	0181-0870 0181-0870 0181-0875 0181-0880 0181-0886 0181-0886 0181-0890 0181-0891 0181-0897 0181-0897 0181-0908 0181-0908 0181-0908 0181-0909 0181-0909 0181-0909	\$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$
Orilling Head Cubing Head & Upper Section dorizontal Completion Tools Sucker Rods Subsurface Equipment Artificial Lift Systems Pumping Unit Surface Pumps & Prime Movers Tanks - Oil Tanks - Water Leparation / Treating Equipment Heater Treaters, Line Heaters Metering Equipment Line Pipe & Valves - Gathering Littings / Valves & Accessories Lathodic Protection Lectrical Installation Equipment Installation	Completion Liner Hanger Packer Gas Lift Valves pumps/VRU (1/4) 10 - 750 bbl (1/4) 7 - 750 bbl 1/4 - GB/30"x10"x1k# 3 ph/48"x15" 1/4 - 1 mile gas line	x1k# Hor 3ph/1/2V TOTA SUBTOTA	RR	\$337,500 \$2,748,500	0181-0870 0181-0870 0181-0871 0181-0880 0181-0884 0181-0886 0181-0889 0181-0890 0181-0897 0181-0898 0181-0909 0181-0909 0181-0909 0181-0909 0181-0909	\$12 \$13 \$13 \$12 \$13 \$13 \$13 \$13 \$13 \$13 \$13 \$13 \$13 \$13
Orilling Head Tubing Head & Upper Section Horizontal Completion Tools Sucker Rods Subsurface Equipment Artificial Lift Systems Pumping Unit Surface Pumps & Prime Movers Fanks - Oil Fanks - Water Feparation / Treating Equipment Heater Treaters, Line Heaters Metering Equipment Fine Pipe & Valves - Gathering Fittings / Valves & Accessories Fathodic Protection Fectival Installation Equipment Installation Fipeline Construction	Completion Liner Hanger Packer Gas Lift Valves pumps/VRU (1/4) 10 - 750 bbl (1/4) 7 - 750 bbl 1/4 - GB/30"x10"x1k# 3 ph/48"x15" 1/4 - 1 mile gas line	x1k# Hor 3ph/1/2V TOTA	RR	\$337,500 \$2,748,500	0181-0870 0181-0870 0181-0875 0181-0880 0181-0886 0181-0886 0181-0890 0181-0891 0181-0897 0181-0897 0181-0908 0181-0908 0181-0908 0181-0909 0181-0909 0181-0909	\$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$
Orilling Head "Ubing Head & Upper Section forizontal Completion Tools Sucker Rods Subsurface Equipment Artificial Lift Systems Pumping Unit Surface Pumps & Prime Movers Fanks - Oil Fanks - Water Surface Pumps & Prime Movers Fanks - Oil Fanks - Water Surface Pumps & Frime Movers Fanks - Oil Fanks - Water Surface Pumps & Frime Movers Fanks - Oil Fanks - Water Surface Pumps & Frime Movers Fanks - Oil Fanks - Water Surface Pumps & Frime Movers Fanks - Oil Fanks - Water Surface Pumps & Frime Movers Fanks - Oil Fanks - Water Feature Fanks - Cathering Surface Fank	Completion Liner Hanger Packer Gas Lift Valves pumps/VRU (1/4) 10 - 750 bbl (1/4) 7 - 750 bbl 1/4 - GB/30"x10"x1k# 3 ph/48"x15" 1/4 - 1 mile gas line	TOTA SUBTOTA WELL COST	RR LL L	\$337,500 \$2,748,500 \$8,6	0181-0870 0181-0870 0181-0875 0181-0880 0181-0880 0181-0886 0181-0886 0181-0890 0181-0895 0181-0895 0181-0895 0181-0990 0181-0900 0181-0900 0181-0900 0181-0900	\$1 \$3 \$3 \$3 \$3 \$3 \$1 \$1 \$2 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$4 \$3 \$4 \$4 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5
Drilling Head Cubing Head & Upper Section Horizontal Completion Tools Sucker Rods Subsurface Equipment Artificial Lift Systems Pumping Unit Surface Pumps & Prime Movers Tanks - Oil Tanks - Water Deparation / Treating Equipment Heater Treaters, Line Heaters Metering Equipment Tine Pipe & Valves - Gathering Section of Treating Equipment Tine Pipe & Valves & Accessories Cathodic Protection Section of Treating Equipment Telepton of Treating Equipment Tine Pipe & Valves - Gathering Section of Treating Equipment Tine Pipe & Valves - Gathering Section of Treating Equipment Tine Pipe & Valves - Gathering Section of Treating Equipment Tine Pipe & Valves - Gathering Section of Treating Tine Pipe & Valves - Gathering Section of Treating Tine Pipe & Valves - Gathering Section of Treating Tine Pipe & Valves - Gathering Section of Treating Tine Pipe & Valves - Gathering Section of Treating Tine Pipe & Valves - Gathering Section of Treating Tine Pipe & Valves - Gathering Section of Treating Tine Pipe & Valves - Gathering Section of Treating Tine Pipe & Valves - Gathering Section of Treating Tine Pipe & Valves - Gathering Tine Pipe & Va	Completion Liner Hanger Packer Gas Lift Valves pumps/VRU (1/4) 10 - 750 bbl (1/4) 7 - 750 bbl 1/4 - GB/30"x10"x1k# 3 ph/48"x15"; 1/4 - 8"x20"x75# HT 1/4 - 1 mile gas line TOTAL Operator's Extra Expense Insurance a dra Expense Insurance covering costs of own well control insurance policy.	TOTA SUBTOTA WELL COST and pay my propor well control, clean in	RRI	\$337,500 \$2,748,500 \$8,6	0181-0870 0181-0870 0181-0875 0181-0880 0181-0880 0181-0886 0181-0886 0181-0890 0181-0895 0181-0895 0181-0895 0181-0990 0181-0900 0181-0900 0181-0900 0181-0900	\$1 \$3 \$3 \$3 \$3 \$3 \$1 \$1 \$2 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$4 \$3 \$4 \$4 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5
Drilling Head Tubing Head & Upper Section Horizontal Completion Tools Sucker Rods Subsurface Equipment Artificial Lift Systems Pumping Unit Surface Pumps & Prime Movers Tanks - Oil Tanks - Water Teparation / Treating Equipment Teleater Treaters, Line Heaters Metering Equipment The Pipe & Valves - Gathering Tittings / Valves & Accessories Tathodic Protection Telectrical Installation Coupment Installation Coupment Installation Coupment Onstruction Telectrical Installation Coupment Installation Coupment Installation Topeline Construction	Completion Liner Hanger Packer Gas Lift Valves pumps//RU (1/4) 10 - 750 bbl (1/4) 7 - 750 bbl 1/4 - 6B/30"x10"x1k# 3 ph/48"x15"; 1/4 - 8'x20"x75# HT 1/4 - 1 mile gas line TOTAL Operator's Extra Expense Insurance a dra Expense Insurance covering costs of own well control insurance policy.	TOTA SUBTOTA WELL COST and pay my propor well control, clean i	RN LL	\$337,500 \$2,748,500 \$8,6 re of the premium.	0181-0870 0181-0870 0181-0875 0181-0880 0181-0880 0181-0886 0181-0886 0181-0890 0181-0895 0181-0895 0181-0895 0181-0990 0181-0900 0181-0900 0181-0900 0181-0900	\$1 \$3 \$3 \$3 \$3 \$3 \$1 \$1 \$2 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$4 \$3 \$4 \$4 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5
Drilling Head Tubing Head & Upper Section Horizontal Completion Tools Sucker Rods Subsurface Equipment Artificial Lift Systems Pumping Unit Surface Pumps & Prime Movers Tanks - Oil Tanks - Water Teaparation / Treating Equipment Teater Treaters, Line Heaters Metering Equipment Tine Pipe & Valves - Gathering Tittings / Valves & Accessories Tathodic Protection Telectrical Installation Coupment Installation Coupment Installation Coupment Onstruction Telectrical Installation Coupment Installation Coupment Installation Topical Construction Telectrical Installation Coupment Installation Topical Construction Telectrical Installation Topical Construction Telectrical Installation Topical Construction Telectrical Installation Topical Construction	Completion Liner Hanger Packer Gas Lift Valves pumps/VRU (1/4) 10 - 750 bbl (1/4) 7 - 750 bbl 1/4 - GB/30"x10"x1k# 3 ph/48"x15" 1/4 - 1 mile gas line 1/4 - 1 mile gas line TOTAL Coperator's Extra Expense Insurance a dra Expense Insurance covering costs of foown well control insurance policy, working interest owner elects to be covered by Levi Jackson	TOTA SUBTOTA WELL COST and pay my propor well control, clean of	RR LL LL LIGHT STATE OF THE STA	\$337,500 \$2,748,500 \$8,6 re of the premium. Illing as estimated in land	0181-0870 0181-0870 0181-0875 0181-0880 0181-0880 0181-0886 0181-0886 0181-0890 0181-0895 0181-0895 0181-0895 0181-0990 0181-0900 0181-0900 0181-0900 0181-0900	\$1 \$3 \$3 \$3 \$3 \$3 \$1 \$1 \$2 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$4 \$3 \$4 \$4 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5
Drilling Head "ubing Head & Upper Section forizontal Completion Tools Sucker Rods subsurface Equipment Artificial Lift Systems "umping Unit Surface Pumps & Prime Movers anks - Oil anks - Water eparation / Treating Equipment leater Treaters, Line Heaters Metering Equipment ine Pipe & Valves - Gathering ittings / Valves & Accessories athodic Protection lectrical Installation quipment Installation ripeline Construction I elect to be covered by Operator has secured Ex I elect to purchase my constituted by I elect to	Completion Liner Hanger Packer Gas Lift Valves pumps//RU (1/4) 10 - 750 bbl (1/4) 7 - 750 bbl 1/4 - 6B/30"x10"x1k# 3 ph/48"x15"; 1/4 - 8'x20"x75# HT 1/4 - 1 mile gas line TOTAL Operator's Extra Expense Insurance a dra Expense Insurance covering costs of own well control insurance policy.	x1k# Hor 3ph/1/2V TOTA SUBTOTA WELL COST and pay my propor well control, clean of the control	RR LL L	\$337,500 \$2,748,500 \$8,6 re of the premium. Illing as estimated in I	0 181-0870 0181-0870 0181-0871 0181-0880 0181-0880 0181-0886 0181-0890 0181-0890 0181-0890 0181-0890 0181-0900 0181-0900 0181-0900 0181-0900 0181-0900	\$1 \$3 \$3 \$3 \$3 \$1 \$1 \$2 \$3 \$3 \$3 \$3 \$3 \$4 \$3 \$4 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5
Drilling Head Tubing Head & Upper Section Horizontal Completion Tools Sucker Rods Subsurface Equipment Artificial Lift Systems Pumping Unit Surface Pumps & Prime Movers Tanks - Oil Tanks - Water Teparation / Treating Equipment Teaters, Line Heaters The Pipe & Valves - Gathering Teating Equipment The Pipe & Valves - Gathering Toolitings / Valves & Accessories Tathodic Protection Tectrical Installation Tequipment Installation Tepipeline Construction Telectrical Installation Tepipeline Construction The Pipe & Valves & Accessories Telectrical Installation Telectri	Completion Liner Hanger Packer Gas Lift Valves pumps/VRU (1/4) 10 - 750 bbl (1/4) 7 - 750 bbl 1/4 - GB/30"x10"x1k# 3 ph/48"x15" 1/4 - 1 mile gas line 1/4 - 1 mile gas line TOTAL Coperator's Extra Expense Insurance a dra Expense Insurance covering costs of foown well control insurance policy, working interest owner elects to be covered by Levi Jackson	x1k# Hor 3ph/1/2V TOTA SUBTOTA WELL COST and pay my propor well control, clean of the control	RR LL L	\$337,500 \$2,748,500 \$8,6 re of the premium. Illing as estimated in land	0 181-0870 0181-0870 0181-0871 0181-0880 0181-0880 0181-0886 0181-0890 0181-0890 0181-0890 0181-0890 0181-0900 0181-0900 0181-0900 0181-0900 0181-0900	\$1 \$3 \$3 \$3 \$3 \$1 \$1 \$2 \$3 \$3 \$3 \$3 \$3 \$4 \$3 \$4 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5

AUTHORIZATION FOR EXPENDITURE

Well Name: PALE RIDER 8/5 W	1PA ST COM #1H	P	rosp	ect:	ALE RIDER 8/	5 (B	lack Lake	5/Devon Fee 8)
The state of the s					ddy			
Sec. 8 Blk: Survey		TWP: 25	58		28E Prop.	TVD	9604	ST: NM TMD: 19338
14	TANGIBLE COSTS 0180				T			
Regulatory Permits & Surveys			L	CODE 0180-01		000	O180-0200	CC \$5.00
Location / Road / Site / Preparation	1			0180-01			0180-0200	\$25,00
Location / Restoration				0180-01			0180-0206	\$25,00
Daywork / Turnkey / Footage Drillin		500/d		0180-01	10 \$528,	100	0180-0210	\$68,90
Fuel Mud, Chemical & Additives	1700 gal/day @ \$2.74/gal			0180-01			0180-0214	\$585,00
Horizontal Drillout Services			_	0180-01	20 \$200,	000	0180-0220	
Cementing			_				0180-0222	\$250,00
Logging & Wireline Services				0180-01			0180-0225	\$35,00
Casing / Tubing / Snubbing Service				0180-01			0180-0230	\$625,00 \$90,00
Mud Logging				0180-01			0100-0234	\$90,00
Stimulation	80 Stg 24.2 MM gal/ 24.2 MM lb	7500000					0180-0241	\$2,100,00
Stimulation Rentals & Other							0180-0242	\$235,00
Water & Other Bits			_	0180-01		_	0180-0245	\$415,00
Inspection & Repair Services			-	0180-01		-	0180-0248	\$8,00
Misc. Air & Pumping Services				0180-01		000		\$5,00
Testing & Flowback Services		-	_	0180-01		000	0180-0254	\$10,00
Completion / Workover Rig				0180-01	58 \$15,0	000		\$30,00
Rig Mobilization	***************************************			0180-01	\$150,0	000	0180-0260	\$10,50
Transportation				0180-01			0180-0265	\$20,00
Welding Services				0180-01			0180-0268	\$15,00
Contract Services & Supervision	- Marine			0180-01	70 \$39,0		0180-0270	\$64,50
Directional Services Equipment Rental	Includes Vertical Control			0180-01	75 \$250,0	000		
Well / Lease Legal			_	0180-01		-	0180-0280	\$30,000
Well / Lease Insurance				0180-01			0180-0284	
Intangible Supplies				0180-01			0180-0285	
Damages			-	0180-01		_		\$1,000
ROW & Easements			_	0180-019			0180-0290	\$113,000 \$113,000
Pipeline Interconnect							0180-0292	\$113,000
Company Supervision				0180-019	5 \$124,8	_	0180-0295	\$110,400
Overhead Fixed Rate			$\overline{}$	0180-019			0180-0296	\$20,000
Well Abandonment				0180-019	8		0180-0298	
Contingencies	2% (TCP) 2% (CC)			0180-019	9 \$47,3	300	0180-0299	\$100,200
		TOTA	AL		\$2,411,0	000		\$5,109,500
	ANGIBLE COSTS 0181							
Casing (19.1" - 30")				181-079	13	H		
Casing (10.1" - 19.0")	450' - 13 3/8" 54.5# J-55 ST&C @ \$3		C	181-079	\$15,5	500		
Casing (8.1" - 10.0")	2400' - 9 5/8" 40# HCL80 LT&C @ \$	24.48/ft	0	181-079	5 \$62,7	00		
Casing (6.1" - 8.0") Casing (4.1" - 6.0")	9725' - 7" 29# HCP-110 LT&C @ \$2	1.5/ft	0	181-079	6 \$223,3	300		
Tubing	10400' - 4 1/2" 13.5# P-110 BPN @ \$ 8950' - 2 7/8" 6.5# EUE tbg @ \$4.54	\$11.75/ft	_				0181-0797	\$130,500
Drilling Head	0330 - 2776 6.5# EUE tog @ \$4.54	π	-	181-086	0 540.0		0181-0798	\$43,400
Tubing Head & Upper Section			-	101-000	0 \$40,0	_	0404 0070	450.000
Horizontal Completion Tools	Completion Liner Hanger		-				0181-0870	\$50,000 \$82,000
Sucker Rods							0181-0875	\$02,000
Subsurface Equipment	Packer						0181-0880	\$10,000
Artificial Lift Systems	Gas Lift Valves						0181-0884	\$15,000
Pumping Unit							0181-0885	7,0,000
Surface Pumps & Prime Movers Tanks - Oil	pumps/VRU					(0181-0886	\$32,000
Tanks - Water	(1/4) 10 - 750 bbl						0181-0890	\$54,000
Separation / Treating Equipment	(1/4) 7 - 750 bbl 1/4 - GB/30"x10"x1k# 3 ph/48"x15'x	flow Man Date of the con-	(0.7		-	_	0181-0891	\$35,000
Heater Treaters, Line Heaters	1/4 - 8'x20'x75# HT	ik# mor 3ph/1/2V	K.		-		0181-0895	\$122,000
Metering Equipment	NT VALVATOR III		-		_	_	0181-0897	\$26,000
Line Pipe & Valves - Gathering	1/4 - 1 mile gas line		-			_	0181-0898	\$15,000
Fittings / Valves & Accessories	ges and		-		+	_	0181-0900	\$13,000
Cathodic Protection			-	-	+	$\overline{}$	0181-0906	\$138,000
Electrical Installation					1		0181-0908	\$29,000 \$38,000
Equipment Installation						_	0181-0910	\$88,000
Pipeline Construction	1/4 - 1 mile gas line						0181-0920	\$32,000
		TOTA			\$341,5			
								\$952,900
		SUBTOTA	_		\$2,752,5	00		\$6,062,400
	TOTAL V	VELL COST			\$8	.81	4,900	
l elect to purchase my	y Operator's Extra Expense Insurance an xtra Expense Insurance covering costs of w own well control insurance policy.	ell control, clean u	up and	d redrillin	of the premium	ı. n Line	e Item 0180-	0185.
neither box is checked above, non-operating	working interest owner elects to be covered by O	perator's well contro	l insur	ance.				
Prepared by:	Levi Jackson	Dat		2/25/2	020			
Company Approval:	White		-	- 25 - 5400				
		left Gasc	-	2/25/2	esident of I)ele	ware Ro	cin
	Amount:	Signature: Ju	Ocus.	Carl	coldent of I	J C16	ware Da	
Joint Owner Name: COG O	perating LLC	Signature: J	41	bascu				

AUTHORIZATION FOR EXPENDITURE

Location: SL: 300 FSL & 1430 FWL	ST COM #1H	Pros	pect: PA	LE RIDER 8/5 (B	lack Lake	5/Devon Fee 8)
THE PARTY OF THE P	(8); BHL: 330 FNL & 330 FWL (5)	Co	ounty: Ed	dy		ST: NM
Sec. 8 Blk: Survey:	TW	P: 25S	RNG:	28E Prop. TVD	9363	TMD: 19115
INITAN	CIPLE COSTS A489					
Regulatory Permits & Surveys	GIBLE COSTS 0180		0180-0100	*10,000	0180-0200	\$5,000
Location / Road / Site / Preparation			0180-0105		0180-0205	\$25,000
Location / Restoration			0180-0106		0180-0206	\$25,000
Daywork / Turnkey / Footage Drilling	23 days drlg / 3 days comp @ \$19500/d		0180-0110	\$479,100	0180-0210	\$62,600
Fuel	1700 gal/day @ \$1.10/gal		0180-0114		0180-0214	\$234,900
Mud, Chemical & Additives			0180-0120	\$200,000	0180-0220	
Horizontal Drillout Services					0180-0222	\$250,000
Cementing Logging & Wireline Services			0180-0125		0180-0225	\$35,000
Casing / Tubing / Snubbing Service			0180-0130 0180-0134		0180-0230 0180-0234	\$625,000 \$90,000
Mud Logging			0180-0134		0180-0234	\$30,000
Stimulation	80 Stg 24.2 MM gal/ 24.2 MM lb			,,,,,,,,	0180-0241	\$2,100,000
Stimulation Rentals & Other					0180-0242	\$235,000
Water & Other			0180-0145		0180-0245	\$415,000
Bits			0180-0148		0180-0248	\$8,000
Inspection & Repair Services Misc. Air & Pumping Services			0180-0150		0180-0250	\$5,000
Testing & Flowback Services			0180-0154 0180-0158		0180-0254 0180-0258	\$10,000
Completion / Workover Rig			0180-0158	\$15,000		\$30,000
Rig Mobilization			0180-0164	\$150,000	0180-0260	\$10,500
Transportation			0180-0165		0180-0265	\$20,000
Welding Services			0180-0168		0180-0268	\$15,000
Contract Services & Supervision			0180-0170	\$39,000	0180-0270	\$64,500
Directional Services	Includes Vertical Control		0180-0175			
Equipment Rental			0180-0180		0180-0280	\$30,000
Well / Lease Legal Well / Lease Insurance			0180-0184		0180-0284	
Intangible Supplies			0180-0185		0180-0285	#4.000
Damages			0180-0188		0180-0288 0180-0290	\$1,000 \$113,000
ROW & Easements			0180-0190		0180-0290	\$113,000
Pipeline Interconnect			0.000.0102		0180-0293	\$110,000
Company Supervision			0180-0195	\$124,800	0180-0295	\$110,400
Overhead Fixed Rate			0180-0196	\$10,000	0180-0296	\$20,000
Well Abandonment			0180-0198		0180-0298	
Contingencies	2% (TCP) 2% (CC)		0180-0199	\$45,006	0180-0299	\$93,058
		TOTAL		\$2,295,306		\$4,745,958
TANG	GIBLE COSTS 0181					
Casing (19.1" - 30")			0181-0793			
Casing (10.1" - 19.0")	450' - 13 3/8" 54.5# J-55 ST&C @ \$32.16/ff	i	0181-0794	\$15,500		
Casing (8.1" - 10.0")	2400' - 9 5/8" 40# HCL80 LT&C @ \$24.48/1	ft	0181-0795			
Casing (6.1" - 8.0")	9570' - 7" 29# HCP-110 LT&C @ \$21.5/ft		0181-0796	\$219,900		
Casing (4.1" - 6.0") Tubing	10340' - 4 1/2" 13.5# P-110 BPN @ \$11.75 8910' - 2 7/8" 6.5# EUE tbg @ \$4.54/ft	ft			0181-0797	\$129,800
Drilling Head	0310 - 2 1/6 0.3# EUE tbg @ \$4.54/ft		0181-0860	\$40,000	0181-0798	\$42,900
Tubing Head & Upper Section			0101-0000	\$40,000	0181-0870	\$50,000
Horizontal Completion Tools	Completion Liner Hanger				0181-0871	\$82,000
Sucker Rods					0181-0875	
Subsurface Equipment	Packer				0181-0880	\$10,000
Artificial Lift Systems	Gas Lift Valves				0181-0884	\$15,000
Pumping Unit					0181-0885	
Surface Pumps & Prime Movers Tanks - Oil	pumps/VRU (1/4) 10 - 750 bbl				0181-0886	\$32,000
	(1/4) 7 - 750 bbl				0181-0890	\$54,000
LAUKS - VVATEE					0181-0891	\$35,000
Tanks - Water Separation / Treating Equipment	1/4 - GB/30"x10'v1k# 3 ph/40"045'04L# !!-	r 3nh/4/21/DT			0194 0005	6400 000
Separation / Treating Equipment	1/4 - GB/30"x10'x1k# 3 ph/48"x15'x1k# Hc	or 3ph/1/2VRT			0181-0895	\$122,000
Separation / Treating Equipment Heater Treaters, Line Heaters	1/4 - GB/30"x10'x1k# 3 ph/48"x15'x1k# Hc 1/4 - 8'x20'x75# HT	or 3ph/1/2VRT			0181-0897	\$26,000
Separation / Treating Equipment Heater Treaters, Line Heaters Metering Equipment		or 3ph/1/2VRT			0181-0897 0181-0898	\$26,000 \$15,000
Separation / Treating Equipment Heater Treaters, Line Heaters Metering Equipment Line Pipe & Valves - Gathering	1/4 - 8'x20'x75# HT	or 3ph/1/2VRT			0181-0897	\$26,000
Separation / Treating Equipment Heater Treaters, Line Heaters Metering Equipment Line Pipe & Valves - Gathering Fittings / Valves & Accessories Cathodic Protection	1/4 - 8'x20'x75# HT	or 3ph/1/2VRT			0181-0897 0181-0898 0181-0900	\$26,000 \$15,000 \$10,000
Separation / Treating Equipment Heater Treaters, Line Heaters Metering Equipment Line Pipe & Valves - Gathering Fittings / Valves & Accessories Cathodic Protection Electrical Installation	1/4 - 8'x20'x75# HT	or 3ph/1/2VRT			0181-0897 0181-0898 0181-0900 0181-0906	\$26,000 \$15,000 \$10,000 \$138,000
Separation / Treating Equipment Heater Treaters, Line Heaters Metering Equipment Line Pipe & Valves - Gathering Fittings / Valves & Accessories Cathodic Protection Electrical Installation Equipment Installation	1/4 - 8'x20'x75# HT 1/45 mile gas line	or 3ph/1/2VRT			0181-0897 0181-0898 0181-0900 0181-0906 0181-0908	\$26,000 \$15,000 \$10,000 \$138,000 \$29,000
Separation / Treating Equipment Heater Treaters, Line Heaters Metering Equipment Line Pipe & Valves - Gathering Fittings / Valves & Accessories Cathodic Protection Electrical Installation Equipment Installation	1/4 - 8'x20'x75# HT	or 3ph/1/2VRT			0181-0897 0181-0898 0181-0900 0181-0906 0181-0908 0181-0909	\$26,000 \$15,000 \$10,000 \$138,000 \$29,000 \$38,000
Separation / Treating Equipment Heater Treaters, Line Heaters Metering Equipment Line Pipe & Valves - Gathering Fittings / Valves & Accessories Cathodic Protection Electrical Installation	1/4 - 8'x20'x75# HT 1/45 mile gas line	or 3ph/1/2VRT		\$338,100	0181-0898 0181-0898 0181-0900 0181-0906 0181-0908 0181-0909 0181-0910	\$26,000 \$15,000 \$10,000 \$138,000 \$29,000 \$38,000 \$88,000
Separation / Treating Equipment Heater Treaters, Line Heaters Metering Equipment Line Pipe & Valves - Gathering Fittings / Valves & Accessories Cathodic Protection Electrical Installation Equipment Installation	1/45 mile gas line 1/45 mile gas line	TOTAL			0181-0898 0181-0898 0181-0900 0181-0906 0181-0908 0181-0909 0181-0910	\$26,000 \$15,000 \$10,000 \$138,000 \$29,000 \$38,000 \$88,000 \$20,000
Separation / Treating Equipment Heater Treaters, Line Heaters Metering Equipment Line Pipe & Valves - Gathering Fittings / Valves & Accessories Cathodic Protection Electrical Installation Equipment Installation	1/4 - 8'x20'x75# HT 1/45 mile gas line 1/45 mile gas line	TOTAL		\$338,100 \$2,633,406	0181-0898 0181-0898 0181-0900 0181-0906 0181-0908 0181-0909 0181-0910	\$26,000 \$15,000 \$10,000 \$138,000 \$29,000 \$38,000 \$88,000
Separation / Treating Equipment Heater Treaters, Line Heaters Metering Equipment Line Pipe & Valves - Gathering Fittings / Valves & Accessories Cathodic Protection Electrical Installation Equipment Installation Pipeline Construction	1/45 mile gas line 1/45 mile gas line	TOTAL		\$2,633,406	0181-0898 0181-0898 0181-0900 0181-0906 0181-0908 0181-0909 0181-0910	\$26,000 \$15,000 \$10,000 \$138,000 \$29,000 \$38,000 \$88,000 \$20,000
Separation / Treating Equipment Heater Treaters, Line Heaters Metering Equipment Line Pipe & Valves - Gathering Fittings / Valves & Accessories Cathodic Protection Electrical Installation Equipment Installation Pipeline Construction Extra Expense Insurance I elect to be covered by O Operator has secured Extra	1/45 mile gas line 1/45 mile gas line 1/45 mile gas line TOTAL WELI Derator's Extra Expense Insurance and pay Expense Insurance covering costs of well corn well control insurance policy.	TOTAL SUBTOTAL COST my proportion throl, clean up a	and redrilling	\$2,633,406 \$8,3	0181-0897 0181-0898 0181-0900 0181-0906 0181-0908 0181-0909 0181-0910 0181-0920	\$26,000 \$15,000 \$10,000 \$138,000 \$29,000 \$38,000 \$20,000 \$936,700 \$5,682,658
Separation / Treating Equipment Heater Treaters, Line Heaters Metering Equipment Line Pipe & Valves - Gathering Fittings / Valves & Accessories Cathodic Protection Electrical Installation Equipment Installation Pipeline Construction Extra Expense Insurance I elect to be covered by O Operator has secured Extra	1/45 mile gas line 1/45 mile gas line 1/45 mile gas line TOTAL WELI Derator's Extra Expense Insurance and pay Expense Insurance covering costs of well core	TOTAL SUBTOTAL COST my proportion throl, clean up a	and redrilling	\$2,633,406 \$8,3	0181-0897 0181-0898 0181-0900 0181-0906 0181-0908 0181-0909 0181-0910 0181-0920	\$26,000 \$15,000 \$10,000 \$138,000 \$29,000 \$38,000 \$20,000 \$936,700 \$5,682,658
Separation / Treating Equipment Heater Treaters, Line Heaters Metering Equipment Line Pipe & Valves - Gathering Fittings / Valves & Accessories Cathodic Protection Electrical Installation Equipment Installation Pipeline Construction Extra Expense Insurance I elect to be covered by O Operator has secured Extra I elect to purchase my ow fineither box is checked above, non-operating wo	1/45 mile gas line 1/45 mile gas line 1/45 mile gas line TOTAL WELI Decrator's Extra Expense Insurance and pay Expense Insurance covering costs of well corn well control insurance policy. king interest owner elects to be covered by Operator T. Cude	TOTAL SUBTOTAL COST my proportion throl, clean up a	and redrilling	\$2,633,406 \$8,3 of the premium. g as estimated in Li	0181-0897 0181-0898 0181-0900 0181-0906 0181-0908 0181-0909 0181-0910 0181-0920	\$26,000 \$15,000 \$10,000 \$138,000 \$29,000 \$38,000 \$20,000 \$936,700 \$5,682,658
Separation / Treating Equipment Heater Treaters, Line Heaters Metering Equipment Line Pipe & Valves - Gathering Fittings / Valves & Accessories Cathodic Protection Electrical Installation Equipment Installation Pipeline Construction Extra Expense Insurance I elect to be covered by O Operator has secured Extra I elect to purchase my ow fineither box is checked above, non-operating wo	1/45 mile gas line 1/45 mile gas line 1/45 mile gas line TOTAL WELI Decrator's Extra Expense Insurance and pay Expense Insurance covering costs of well corn well control insurance policy. king interest owner elects to be covered by Operator T. Cude	TOTAL SUBTOTAL COST my proportion trol, clean up	and redrilling	\$2,633,406 \$8,3 of the premium. g as estimated in Li	0181-0897 0181-0898 0181-0900 0181-0906 0181-0908 0181-0909 0181-0910 0181-0920	\$26,000 \$15,000 \$11,000 \$138,000 \$29,000 \$38,000 \$20,000 \$936,700 \$5,682,658
Separation / Treating Equipment Heater Treaters, Line Heaters Metering Equipment Line Pipe & Valves - Gathering Fittings / Valves & Accessories Cathodic Protection Electrical Installation Equipment Installation Pipeline Construction Extra Expense Insurance I elect to be covered by O Operator has secured Extra I elect to purchase my ow fineither box is checked above, non-operating wo Prepared by: Company Approval:	1/45 mile gas line 1/45 mile gas line 1/45 mile gas line TOTAL WELI Derator's Extra Expense Insurance and pay Expense Insurance covering costs of well corn well control insurance policy. king interest owner elects to be covered by Operator T. Cude	TOTAL SUBTOTAL COST my proportion trol, clean up and the control in Date: Date:	3/24/20	\$2,633,406 \$8,3 of the premium. g as estimated in Li	0181-0897 0181-0898 0181-0900 0181-0908 0181-0909 0181-0910 0181-0920 116,064	\$26,000 \$15,000 \$110,000 \$138,000 \$29,000 \$38,000 \$20,000 \$936,700 \$5,682,658
Separation / Treating Equipment Heater Treaters, Line Heaters Metering Equipment Line Pipe & Valves - Gathering Sittings / Valves & Accessories Cathodic Protection Sectrical Installation Sequipment Installation Sippline Construction Lettra Expense Insurance Lettra Expen	1/45 mile gas line 1/45 mile gas line 1/45 mile gas line TOTAL WELI Derator's Extra Expense Insurance and pay Expense Insurance covering costs of well corn an well control insurance policy. king interest owner elects to be covered by Operator T. Cude	TOTAL SUBTOTAL COST my proportion trol, clean up and the control in Date: Date:	and redrilling	\$2,633,406 \$8,3 of the premium. g as estimated in Li 220 220 331 341 352 353 353 353 353 353 353 353 353 353	0181-0897 0181-0898 0181-0900 0181-0908 0181-0909 0181-0910 0181-0920 116,064	\$26,000 \$15,000 \$10,000 \$138,000 \$29,000 \$38,000 \$20,000 \$5,682,658

AUTHORIZATION FOR EXPENDITURE

Well Name	: PA	LER	IDE	R 8/5 W1M	ST COM #1H		Pros	pect: PALE	RIDER 8/5 (B	Black Lake	5/Devon Fee 8)	
Location:	SL: 3	00 F	SL 8	1460 FWL	(8); BHL: 330 FNL & 990 FWL (5)		C	ounty: Eddy			ST: NM	
Sec. 8	В	lk:		Survey:		TWP:	25S	RNG: 28	E Prop. TVI	9548	TMD: 19207	
				INITAN	GIBLE COSTS 0180			0005				
Regulatory P	ermit	s & Si	urve		GIBLE CO313 0100			0180-0100	TCP \$10,000	0180-0200	CC \$5,0	000
Location / Ro			Prep	aration				0180-0105	\$75,000	1,000	\$25,0	
Location / Re Daywork / To				- D-illi				0180-0106		0180-0206	\$25,0	
Fuel	urnke	y / FO	otag	e Unilling	23 days drlg / 3 days comp @ \$1950 1700 gal/day @ \$1.10/gal	00/d		0180-0110	\$479,100	0180-0210 0180-0214	\$62,6 \$234,9	_
Mud, Chemi	cal &	Additi	ives		1700 ganday & \$1.10/gai			0180-0114	\$200,000		\$234,9	UU
Horizontal D	rillou	Serv	rices							0180-0222	\$250,0	00
Cementing	Carlin	- C						0180-0125	\$100,000		\$35,0	
Logging & W Casing / Tub				Service				0180-0130 0180-0134	\$2,000 \$20,000		\$625,0 \$90,0	
Mud Logging								0180-0137	\$30,000	0160-0234	\$90,0	00
Stimulation					80 Stg 24.2 MM gal/ 24.2 MM lb					0180-0241	\$2,100,0	000
Stimulation F Water & Oth		ls & C	Other					2400 0445	AFO 000	0180-0242	\$235,0	
Bits	161		-				_	0180-0145 0180-0148	\$50,000 \$111,100		\$415,0 \$8,0	-
Inspection &								0180-0150	\$40,000		\$5,0	-
Misc. Air & F								0180-0154		0180-0254	\$10,0	-
Testing & Flo								0180-0158	\$15,000		\$30,0	
Rig Mobiliza		kover	Rig					0180-0164	\$150,000	0180-0260	\$10,5	00
Transportation								0180-0165		0180-0265	\$20.0	00
Welding Serv								0180-0168	1,1200,000,000,000,000	0180-0268	\$15,0	
Contract Ser			pervi	sion				0180-0170		0180-0270	\$64,5	00
Directional S Equipment F					Includes Vertical Control			0180-0175	\$250,000	0400 0000	* 00.0	000
Well / Lease							_	0180-0180	\$201,300	0180-0280 0180-0284	\$30,0	00
Well / Lease			8					0180-0185		0180-0285		
Intangible Su	upplie	S						0180-0188	\$8,000	0180-0288	\$1,0	00
Damages ROW & Ease								0180-0190	\$50,000		\$113,0	_
Pipeline Inte								0180-0192		0180-0292 0180-0293	\$113,0	00
Company Su								0180-0195	\$124,800	0180-0293	\$110,4	00
Overhead Fi								0180-0196	\$10,000		\$20,0	
Well Abando		nt						0180-0198		0180-0298		
Contingencie	es				2% (TCP) 2% (CC)			0180-0199	\$45,006	0180-0299	\$93,0	
		_			W.	ТО	TAL		\$2,295,306		\$4,745,9	58
Casing (19.	1" - 1	30")		TANC	SIBLE COSTS 0181			0404.0700				
Casing (19.)		450' - 13 3/8" 54.5# J-55 ST&C @ \$3	2 16/ft	_	0181-0793	\$15,500			_
Casing (8.1'					2400' - 9 5/8" 40# HCL80 LT&C @ \$2			0181-0795	\$62,700			_
Casing (6.1'					9570' - 7" 29# HCP-110 LT&C @ \$21	.5/ft		0181-0796	\$219,900			
Casing (4.1' Tubing	- 6.	0")			10340' - 4 1/2" 13.5# P-110 BPN @ \$					0181-0797	\$129,8	-
Drilling Head	1				8910' - 2 7/8" 6.5# EUE tbg @ \$4.54/	π		0181-0860	\$40,000	0181-0798	\$42,9	00
Tubing Head								0101-0000	Ψ40,000	0181-0870	\$50,0	00
Horizontal Co		tion 1	Tools		Completion Liner Hanger					0181-0871	\$82,00	
Sucker Rods Subsurface E		ant			Backer					0181-0875		
Artificial Lift S					Packer Gas Lift Valves					0181-0880 0181-0884	\$10,00	_
Pumping Uni	it									0181-0885	\$15,00	00
Surface Pum	ps &	Prime	e Mo	vers	pumps/VRU					0181-0886	\$32,00	00
Tanks - Oil Tanks - Wate	r				(1/4) 10 - 750 bbl					0181-0890	\$54,00	00
Separation /		ing Fo	quinr	nent	(1/4) 7 - 750 bbl 1/4 - GB/30"x10'x1k# 3 ph/48"x15'x1	k# Hor 2nh/4	21/21			0181-0891	\$35,00	
Heater Treat					1/4 - 8'x20'x75# HT	Hor Spil/ I	TAK!			0181-0895	\$122,00 \$26,00	
Metering Equ										0181-0898	\$15,00	
Line Pipe & V					1/45 mile gas line					0181-0900	\$10,00	00
Fittings / Valv Cathodic Pro			ssori	es						0181-0906	\$138,00	_
Electrical Inst										0181-0908 0181-0909	\$29,00 \$38,00	_
Equipment Ir	_									0181-0909	\$88,00	
Pipeline Con	struct	ion			1/45 mile gas line					0181-0920	\$20,00	_
						ТО	TAL		\$338,100		\$936,7	
						SUBTO	TAI		\$2,633,406		\$5,682,6	
					TOTAL						\$3,002,0	30
Extra Expense	Insura	ance	Maril		TOTAL V	VELL COS		Consultation of the Consul	\$8,3	16,064		(42)
	Lele	ct to	be co	overed by O	perator's Extra Expense Insurance and	d pay my pror	artio	nate share of t	ha aramium			200
	Ope	rator h	has s	ecured Extra	Expense Insurance covering costs of w	ell control, clea	an up	and redrilling as	estimated in Li	ne Item 0180	-0185.	-
X					well control insurance policy.							- 1
If neither box is o	checked	above	e, non	operating wor	king interest owner elects to be covered by O	perator's well co	ntrol in	nsurance.				-
	pared l				T. Cude		Date:	3/24/2020				۲
Company A			-	17.11	stattae				_			
							Date:	3/24/2020				
Joint Owner	r Inter	est:			Amount:				lent of Dela	aware Ba	sin	
Joint Owne	er Nan	ne:	_(OG Ope	rating LLC	Signature	Jeff	- Gascle				
			-	1			-9045	12269C5F4F0				

AUTHORIZATION FOR EXPENDITURE

Well Name: PALE RIDER	B/5 WONC ST COM #1H	Pros	pect: PAL	E RIDER 8/5 (B	lack Lake	5/Devon Fee 8)
Location: SL: 300 FSL & 1	490 FWL (8); BHL: 330 FNL & 1650 FWL (5)	Co	ounty: Edd	у		ST: NM
Sec. 8 Blk: St	urvey:	TWP: 25S	RNG: 2	8E Prop. TVD	9383	TMD: 19071
	INTANGIBLE COSTS 0180		CODE	ТСР	CODE	СС
Regulatory Permits & Surveys			0180-0100		0180-0200	\$5,000
Location / Road / Site / Prepa	ration		0180-0105	\$75,000	0180-0205	\$25,000
Location / Restoration	D 1111		0180-0106	\$200,000	0180-0206	\$25,000
Daywork / Turnkey / Footage		/d	0180-0110	\$479,100	0180-0210	
Fuel Mud, Chemical & Additives	1700 gal/day @ \$1.10/gal		0180-0114 0180-0120	\$50,000 \$200,000	0180-0214	\$234,900
Horizontal Drillout Services			0100-0120	Ψ200,000	0180-0222	\$250,000
Cementing			0180-0125	\$100,000		
Logging & Wireline Services			0180-0130	\$2,000	0180-0230	\$625,000
Casing / Tubing / Snubbing Se	rvice		0180-0134	\$20,000	0180-0234	\$90,000
Mud Logging			0180-0137	\$30,000		
Stimulation	80 Stg 24.2 MM gal/ 24.2 MM lb				0180-0241	
Stimulation Rentals & Other				250,000	0180-0242	\$235,000
Water & Other Bits			0180-0145 0180-0148	\$50,000 \$111,100	0180-0245 0180-0248	\$415,000 \$8,000
Inspection & Repair Services	· · · · · · · · · · · · · · · · · · ·		0180-0148	\$40,000	0180-0248	\$5,000
Misc. Air & Pumping Services			0180-0154	\$40,000	0180-0254	
Testing & Flowback Services			0180-0158	\$15,000		
Completion / Workover Rig					0180-0260	
Rig Mobilization			0180-0164	\$150,000		
Transportation			0180-0165	\$20,000		
Welding Services			0180-0168	\$5,000	0180-0268	
Contract Services & Supervision	on		0180-0170	\$39,000	0180-0270	\$64,500
Directional Services	Includes Vertical Control		0180-0175	\$250,000		
Equipment Rental			0180-0180		0180-0280	\$30,000
Well / Lease Legal			0180-0184	\$5,000	0180-0284	
Well / Lease Insurance Intangible Supplies			0180-0185	\$5,000	0180-0285 0180-0288	
Damages			0180-0188	\$8,000		
ROW & Easements			0180-0190	\$50,000	0180-0290 0180-0292	\$113,000 \$113,000
Pipeline Interconnect			0100-0192		0180-0292	
Company Supervision			0180-0195	\$124,800		
Overhead Fixed Rate			0180-0196	\$10,000		
Well Abandonment			0180-0198	4.01000	0180-0298	
Contingencies	2% (TCP) 2% (CC)		0180-0199	\$45,006		
		TOTAL		\$2,295,306		\$4,745,958
	TANGIBLE COSTS 0181	101712		VZ,Z00,000		V4,140,000
Casing (19.1" - 30")	TANGIBLE COSTS 0181		0181-0793			
Casing (10.1" - 19.0")	450' - 13 3/8" 54.5# J-55 ST&C @ \$32	16/ft	0181-0794	\$15,500		
Casing (8.1" - 10.0")	2400' - 9 5/8" 40# HCL80 LT&C @ \$24		0181-0795	\$62,700		
Casing (6.1" - 8.0")	9570' - 7" 29# HCP-110 LT&C @ \$21.		0181-0796	\$219,900		
Casing (4.1" - 6.0")	10340' - 4 1/2" 13.5# P-110 BPN @ \$1				0181-0797	\$129,800
Tubing	8910' - 2 7/8" 6.5# EUE tbg @ \$4.54/ft				0181-0798	\$42,900
Drilling Head			0181-0860	\$40,000		
Tubing Head & Upper Section					0181-0870	
Horizontal Completion Tools	Completion Liner Hanger				0181-0871	
Sucker Rods	D. L.				0181-0875	
Subsurface Equipment	Packer		-		0181-0880	
Artificial Lift Systems Pumping Unit	Gas Lift Valves				0181-0884 0181-0885	
Surface Pumps & Prime Move	ers pumps/VRU				0181-0886	
Tanks - Oil	(1/4) 10 - 750 bbl				0181-0890	-
Tanks - Water	(1/4) 7 - 750 bbl				0181-0891	
Separation / Treating Equipm		x# Hor 3ph/1/2VR			0181-0895	
Heater Treaters, Line Heaters					0181-0897	
Metering Equipment					0181-0898	\$15,000
Line Pipe & Valves - Gathering					0181-0900	\$10,000
Fittings / Valves & Accessorie	S				0181-0906	
Cathodic Protection					0181-0908	
Electrical Installation					0181-0909	
Equipment Installation					0181-0910	
Pipeline Construction	1/45 mile gas line				0181-0920	\$20,000
		TOTAL		\$338,100		\$936,700
		SUBTOTAL		\$2,633,406		\$5,682,658
	TOTAL	ELL COST		* 0.0	16,064	
Operator has se	vered by Operator's Extra Expense Insurance and cured Extra Expense Insurance covering costs of we ase my own well control insurance policy.	pay my proportio		of the premium.		80-0185.
If neither box is checked above, non-	operating working interest owner elects to be covered by Op	erator's well control i	nsurance.			
Prepared by:	T. Cude	Date		20		
The state of the s	m. white	Date				
				sident of De	laware F	Basin
	Amount:	Signature: Ju	Casel		Na Care	
Joint Owner Name:C	OG Operating LLC	Signature.	1 Busin			

AUTHORIZATION FOR EXPENDITURE

Well Name: PALE RIDER 8/5 W1NG	ST COM #1H		Pros	pect: P	ALE RIDER 8/5	(Black Lake	5/Devon Fee 8
Location: SL: 300 FSL & 1520 FWL	ounty: E	ddy	ST: NM				
Sec. 8 Blk: Survey:		TWP:	258	RNG:	28E Prop. TV	/D: 9568	TMD: 19243
INTAN	NGIBLE COSTS 0180			CODE	ТСР	CODE	СС
Regulatory Permits & Surveys	IGIBLE CO313 0100			0180-010		0 0180-0200	
Location / Road / Site / Preparation				0180-010		0 0180-0205	
Location / Restoration				0180-010			
Daywork / Turnkey / Footage Drilling Fuel	23 days drlg / 3 days comp @ \$195	500/d		0180-011		_	
Mud, Chemical & Additives	1700 gal/day @ \$1.10/gal			0180-011		_	
Horizontal Drillout Services				0100-012	Ψ200,00	0180-0222	
Cementing				0180-012	\$100,00		
Logging & Wireline Services				0180-013			
Casing / Tubing / Snubbing Service Mud Logging				0180-013			\$90,000
Stimulation	80 Stg 24.2 MM gal/ 24.2 MM lb			0180-013	\$30,00	0180-0241	\$2,100,000
Stimulation Rentals & Other	or org Eviz initi gair Eviz initi io					0180-0242	
Water & Other				0180-014			
Bits				0180-014			
Inspection & Repair Services Misc, Air & Pumping Services				0180-015		0180-0250	
Testing & Flowback Services			-	0180-015	020		
Completion / Workover Rig				0.00.010	\$ 10,00	0180-0260	
Rig Mobilization				0180-016		00	
Transportation				0180-016			
Welding Services Contract Services & Supervision				0180-016			
Directional Services	Includes Vertical Control			0180-017			\$64,500
Equipment Rental	moludes valued Coulton			0180-017			\$30,000
Well / Lease Legal				0180-018			
Well / Lease Insurance				0180-018	\$5,00	0 0180-0285	
Intangible Supplies				0180-018	The state of the s		\$1,000
Damages				0180-019			
ROW & Easements Pipeline Interconnect				0180-019	92	0180-0292	
Company Supervision				0180-019	5 \$124,80	0180-0293	The second secon
Overhead Fixed Rate				0180-019			
Well Abandonment				0180-019		0180-0298	
Contingencies	2% (TCP) 2% (CC)			0180-019	9 \$45,00	6 0180-0299	\$93,058
		TO	DTAL		\$2,295,30	6	\$4,745,958
TAN	GIBLE COSTS 0181						
Casing (19.1" - 30")				0181-079	3		
Casing (10.1" - 19.0")	450' - 13 3/8" 54.5# J-55 ST&C @ \$			0181-079			
Casing (8.1" - 10.0") Casing (6.1" - 8.0")	2400' - 9 5/8" 40# HCL80 LT&C @ \$			0181-079		_	
Casing (6.1 - 6.0")	9680' - 7" 29# HCP-110 LT&C @ \$2 10375' - 4 1/2" 13.5# P-110 BPN @		_	0181-079	\$222,70		6120 200
Tubing	8930' - 2 7/8" 6.5# EUE tbg @ \$4.54					0181-0797	
Drilling Head				0181-086	\$40,00		
Tubing Head & Upper Section						0181-0870	\$50,000
Horizontal Completion Tools	Completion Liner Hanger					0181-0871	
Sucker Rods Subsurface Equipment	Packer					0181-0875	
Artificial Lift Systems	Gas Lift Valves					0181-0880	
Pumping Unit						0181-0884	
Surface Pumps & Prime Movers	pumps/VRU					0181-0886	
Tanks - Oil	(1/4) 10 - 750 bbl					0181-0890	
Tanks - Water	(1/4) 7 - 750 bbl					0181-0891	\$35,000
Separation / Treating Equipment Heater Treaters, Line Heaters	1/4 - GB/30"x10'x1k# 3 ph/48"x15'x 1/4 - 8'x20'x75# HT	c1k# Hor 3ph/	1/2VR1			0181-0895	
Metering Equipment	114 - 0 AZV X/ 3# TI					0181-0897	\$26,000
Line Pipe & Valves - Gathering	1/45 mile gas line					0181-0898	\$15,000 \$10,000
Fittings / Valves & Accessories						0181-0906	\$138,000
Cathodic Protection						0181-0908	\$29,000
Electrical Installation						0181-0909	\$38,000
Equipment Installation Pipeline Construction	1/4 E mile !!					0181-0910	\$88,000
i ipoline Construction	1/45 mile gas line					0181-0920	\$20,000
		TC	TAL		\$340,90	0	\$937,600
		SUBTO	TAL		\$2,636,20	6	\$5,683,558
	TOTAL	WELL CO	ет		¢o	319,764	
Operator has secured Extra I elect to purchase my ow If neither box is checked above, non-operating wo	T. Cude	well control, cle	ean up	and redrilli	ng as estimated in	Line Item 018	0-0185.
Company Approval:	white		Date:	3/24/2	2020		
Joint Owner Interest:	Amount:	Jeff Ga	sch.	Vice P	resident of	Delaware	Basin
Joint Owner Name: COG Op	perating LLC	Signature	: 14	11 base	u		
			-90	4512269C5	4F0		