### **CASE NO. 21612**

# APPLICATION OF TAP ROCK RESOURCES, LLC FOR COMPULSORY POOLING, EDDY COUNTY, NEW MEXICO

### **EXHIBITS**

- A. Application and Proposed Notice
- B. Landman's Affidavit
- C. Geologist's Affidavit
- D. Affidavit of Notice
- E. Affidavit of Publication
- F. Pooling Checklist

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

APPLICATION OF TAP ROCK RESOURCES, LLC FOR COMPULSORY POOLING, EDDY COUNTY, NEW MEXICO.

Case No. 2/6/2

### **APPLICATION**

Tap Rock Resources, LLC applies for an order pooling all uncommitted mineral interests in the Wolfcamp formation in a horizontal spacing unit underlying the E/2 of Section 9 and the E/2 of Section 16, Township 25 South, Range 26 East, NMPM, Eddy County, New Mexico, and in support thereof, states:

- 1. Applicant is a working interest owner in the E/2 of Section 9 and the E/2 of Section 16, and has the right to drill a well or wells thereon.
- 2. Applicant proposes to drill the following wells to a depth sufficient to test the Wolfcamp formation (Purple Sage; Wolfcamp (Gas) Pool):
  - (a) the Schlitz Fed. Com. Well No. 204H, with a first take point in the SE/4SE/4 of Section 16 and the last take point in the NE/4NE/4 of Section 9; and
  - (b) the Schlitz Fed. Com. Well No. 213H, with a first take point in the SW/4SE/4 of Section 16 and the last take point in the NW/4NE/4 of Section 9.
- 3. Applicant has in good faith sought to obtain voluntary joinder of all other mineral interest owners in the E/2 of Section 9 and the E/2 of Section 16 for the purposes set forth herein.
- 4. Although applicant attempted to obtain to obtain voluntary agreements from all mineral interest owners to participate in the drilling of the wells or to otherwise commit their interests to the wells, certain interest owners have failed or refused to join in dedicating their interests. Therefore, applicant seeks an order pooling all mineral interest owners in the



Wolfcamp formation underlying the E/2 of Section 9 and the E/2 of Section 16, pursuant to NMSA 1978 §70-2-17.

5. The pooling of mineral interests in the Wolfcamp formation underlying the well unit will avoid the drilling of unnecessary wells, prevent waste, and protect correlative rights.

WHEREFORE, applicant requests that, after notice and hearing, the Division enter its order:

- A. Pooling all uncommitted mineral interests in Wolfcamp formation underlying the E/2 of Section 9 and the E/2 of Section 16;
- B. Designating Tap Rock Operating, LLC as operator of the wells;
- C. Considering the cost of drilling, completing, and equipping the wells, and allocating the costs thereof among the wells' working interest owners;
- Approving actual operating charges and costs charged for supervision, together
  with a provision adjusting the rates pursuant to the COPAS accounting procedure;
  and
- E. Setting a 200% charge for the risk assumed by applicant in drilling and completing the wells in the event a working interest owner elects not to participate in the wells.

Respectfully submitted,

James Bruce

Post Office Box 1056

Santa Fe, New Mexico 87504

(505) 982-2043

jamesbruc@aol.com

Attorney for Tap Rock Resources, LLC

### PROPOSED ADVERTISEMENT

Case	No.	

Application of Tap Rock Resources, LLC for a compulsory pooling, Eddy County, New Mexico. Tap Rock Resources, LLC seeks an order pooling all mineral interests in the Wolfcamp formation underlying a horizontal spacing unit comprised of the E/2 of Section 9 and the E/2 of Section 16, Township 25 South, Range 26 East, NMPM, Eddy County, New Mexico. The unit will be dedicated to the following wells:

- (a) the Schlitz Fed. Com. Well No. 204H, with a first take point in the SE/4SE/4 of Section 16 and the last take point in the NE/4NE/4 of Section 9; and
- (b) the Schlitz Fed. Com. Well No. 213H, with a first take point in the SW/4SE/4 of Section 16 and the last take point in the NW/4NE/4 of Section 9.

Also to be considered will be the cost of drilling and completing the wells and the allocation of the cost thereof, as well as actual operating costs and charges for supervision, designation of Tap Rock Operating, LLC as operator of the wells, and a 200% charge for the risk involved in drilling, completing, and equipping the wells. The well unit is located approximately 5-1/2 miles southeast of Whites City, New Mexico.

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

APPLICATION OF TAP ROCK OPERATING, LLC FOR A STANDARD HORIZONTAL SPACING AND PRORATION UNIT AND COMPULSORY POOLING, EDDY COUNTY, NEW MEXICO

Case No. 21612

### AFFIDAVIT OF MATTHEW PHILLIPS

I, being duly sworn on oath, state the following:

- 1. I am over the age of eighteen years and have the capacity to execute this Affidavit, which is based on my personal knowledge.
- 2. I am employed as a Land Manager with Tap Rock Operating, LLC ("Tap Rock"), and I am familiar with the subject application and the lands involved.
- 3. This affidavit is submitted in connection with the filing by Tap Rock of the above-referenced compulsory pooling applications pursuant to 19.15.4.12.A(1) NMAC.
- 4. I have previously testified before the New Mexico Oil Conservation Division as an expert witness in petroleum land matters. My credentials as a petroleum landman have been accepted by the Division and made a matter of record.
- 5. The purpose of this application is to force pool working interest owners into the horizontal spacing unit ("HSU") described below, and in the wells to be drilled in the units.
- 6. No opposition is expected. OXY USA, Inc. ("OXY"), OXY Y-1 Company ("OXY Y-1"), EOG Resources, Inc. ("EOG"), Murchison Oil & Gas, Inc. ("Murchison"), MEC Petroleum Corporation ("MEC"), Cimarex Energy Company ("Cimarex") and McCombs Energy, LLC ("McCombs") were contacted regarding the proposed well. Tap Rock continues to work toward a voluntary agreement with all parties.

EXHIBIT B

- 7. Tap Rock seeks an order pooling all mineral interests in the Purple Sage; Wolfcamp Pool (Pool Code 98220) underlying the E/2 of Section 9 and E/2 Section 16, Township 25 South, Range 26 East, NMPM, Eddy County, New Mexico. The proposed 640-acre spacing unit will be dedicated to the Schlitz Fed Com #204H and Schlitz Fed Com #213H, as the defining wells (the "Wells") for the HSU.
- 8. A proposed C-102 for each well is attached as **Exhibit 1.** The Wells will develop the Purple Sage; Wolfcamp Pool (Pool Code 98220), which is a gas pool.
- 9. The proposed surface hole, bottom hole, and first take point for each well can be found in the attached **Exhibit 1**. The proposed total vertical depth for each well can be found in the attached **Exhibit 5**.
- 10. A tract map containing the composition of the HSU is attached hereto as **Exhibit 2** and shows that the HSU is comprised of one fee tract, two Federal tracts, and two State tracts. **Exhibit 2A** shows the tracts with mineral interest and **Exhibit 2B** shows the tracts taking contractual interest into consideration.
  - 11. **Exhibit 3** is a Tract List based on the contractual interest in the HSU.
- 12. The parties being pooled and the nature of their interest are found on the Unit Interest Breakdown on **Exhibit 4** attached hereto. **Exhibit 4** also includes information regarding working interest owners and overriding royalty interest owners.
  - 13. There are no depth severances in the Wolfcamp formation in the proposed HSU.
- 14. I have conducted a diligent search of the public records in Eddy County, New Mexico, where the Wells will be located, and conducted phone directory and computer searches to obtain contact information for parties entitled to notification. I mailed all parties well proposals, including an Authorization for Expenditure ("AFE").

- 15. **Exhibit 5** is a sample proposal letter and the AFE for each of the proposed Wells. The estimated cost of each of the wells set forth in the AFE is fair, reasonable, and comparable to the costs of other Wells of similar depths and lengths drilled in this area of New Mexico.
- 16. Tap Rock has made a good faith effort to obtain voluntary joinder of the working interest owners in the proposed Wells. **Exhibit 6** is a summary of our communication with each of the parties that we seek to pool.
- 17. Tap Rock requests overhead and administrative rates of \$7000/month for drilling a well and \$700/month for a producing well. These rates are fair and comparable to the rates charged by other operators for wells of this type in this area of southeastern New Mexico. Tap Rock requests that these rates be adjusted periodically as provided in the COPAS Accounting Procedure.
- 18. Tap Rock requests the maximum cost, plus 200% risk charge be assessed against non-consenting working interest owners.
  - 19. Tap Rock requests that it be designated operator of the Wells.
- 20. The Exhibits to this Affidavit were prepared by me, or compiled from Tap Rock's company business records.
- 21. The granting of this Application is in the interests of conservation, the prevention of waste, and the protection of correlative rights.
  - 22. The foregoing is correct and complete to the best of my knowledge and belief.

FURTHER AFFIANT SAYETH NAUGHT

Matthew Phillips

STATE OF COLORADO )

)ss

COUNTY OF JEFFERSON )

Subscribed to and sworn before me this \( \subscribed \) day of June, 2021.

RACHELLE REESE
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 20124064461
COMMISSION EXPIRES SEPTEMBER 28. 2024

YULYYUUL Y Notary Public

My Commission expires 9 28 2024

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

1220 S. St. Francis Dr., Santa Fe, NM 87505

Phone: (505) 476-3460 Fax: (505) 476-3462

District IV

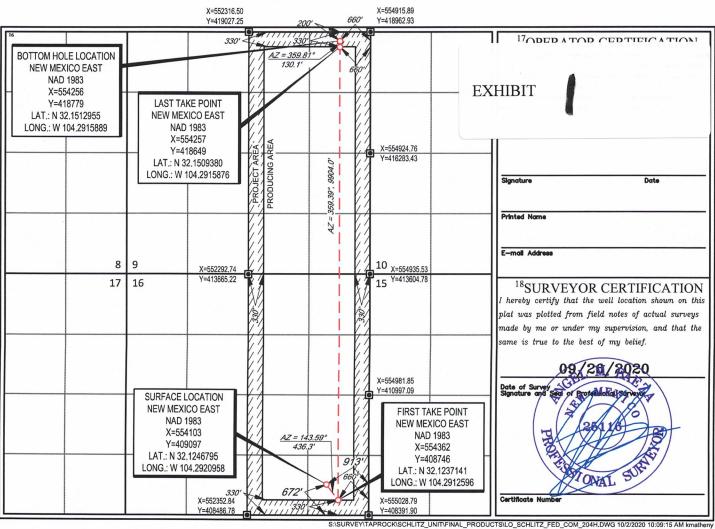
State of New Mexico
Energy, Minerals & Natural Resources
Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

FORM C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT <sup>1</sup>API Number Well Number Property Name Property Code SCHLITZ FED COM 204H OGRID No. Operator Name <sup>9</sup>Elevation 3393 372043 TAP ROCK OPERATING, LLC. 10 Surface Location UL or lot no. Township Range Lot Idn Feet from the North/South line Feet from the East/West line County Section 672' P 25-S 26-E SOUTH 913' EAST **EDDY** 16 <sup>11</sup>Bottom Hole Location If Different From Surface East/West line Feet from the County UL or lot no. Township Range Feet from the North/South line 9 25-S 26-E 200' NORTH 660' EAST **EDDY** A 12Dedicated Acres <sup>3</sup>Joint or Infill <sup>4</sup>Consolidation Code <sup>5</sup>Order No.

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III 1000 Rio Brazos Road, Aztec, NM 87410

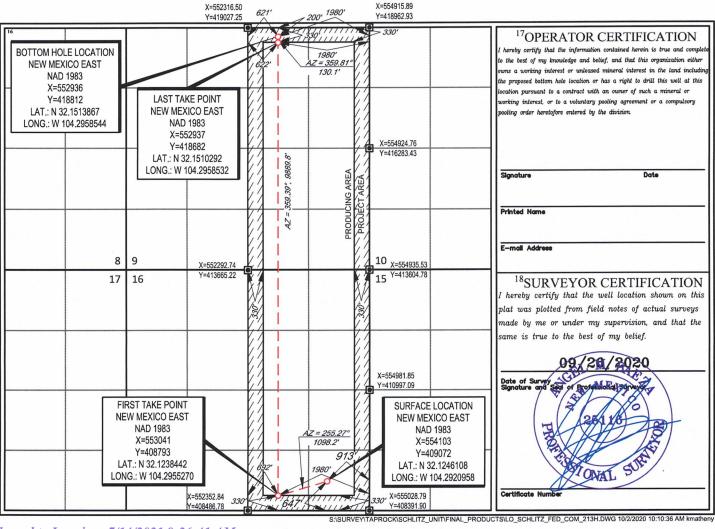
Phone: (505) 334-6178 Fax: (505) 334-6170 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462 State of New Mexico
Energy, Minerals & Natural Resources
Department
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FORM C-102
Revised August 1, 2011
Submit one copy to appropriate
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AMENDED REPORT

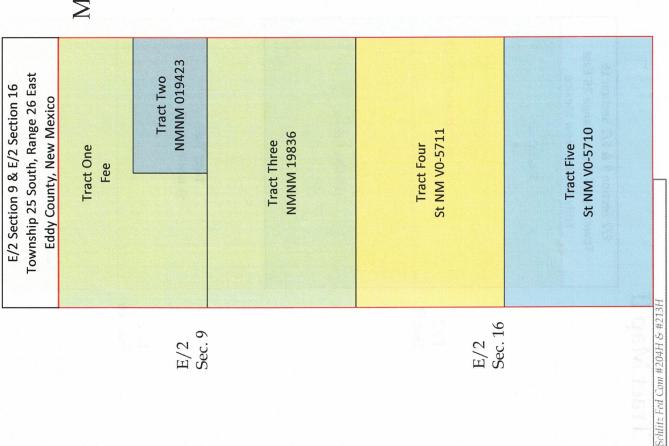
			WELL LO	OCATIO	N AND ACR	EAGE DEDIC	CATION PLA	T	
1	API Number			<sup>2</sup> Pool Code			<sup>3</sup> Pool Na	nme	
<sup>4</sup> Property C	ode				SCHLITZ F				Well Number 213H
70GRID N 37204				TAP	ROCK OPE	Name RATING, LLC.			<sup>9</sup> Elevation <b>3393</b>
					<sup>10</sup> Surface L	ocation			
UL or lot no.		Township	Range	Lot Idn			Feet from the	East/West line	County <b>EDDY</b>
P	16	25-5	6 26-E	_	647'	SOUTH	913'	EAST	EDDI
- ,			11	Bottom Ho	ole Location If I	Different From Su			
UL or lot no.	Section	Township	Range	Lot Idn	1200-1200-1200-1200-1200-1200-1200-1200		Feet from the	East/West line	County
В	9	25-5	5   26-E	-	200'	NORTH	1980'	EAST	EDDY
<sup>12</sup> Dedicated Acres	<sup>13</sup> Joint or	Infill 1	<sup>4</sup> Consolidation Co	ode 15Oro	ler No.				

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.





Mineral ownership



Tract Map I

# Exhibit 3 Case No. 21612

Fract #	: Legal	Mineral Ownership	Lease Number	Owners
	E/2 Section 9, Township 25	N/2NE/4,	NMNM 019423	Tap Rock Resources, LLC
	South, Kange 20 East, Eddy County, NM	SW/4NE/4 - Fee	NMNM 19836	EOG Resources, Inc.
		SE/4NE/4,		OXY Y-1 Company
		SE/4 - rederal		OXY USA, Inc.
				Murchison Oil & Gas, LLC
				MEC Petroleum Corporation
				Cimarex Energy Company
	E/2 Section 16, Township	NE/4 - State	St NM V0-5711	Tap Rock Resources, LLC
	Eddy County, NM	SE/4 - State	St NM V0-5710	EOG Resources, Inc.
				OXY Y-1 Company
				OXY USA, Inc.

\*final interest subject to division order title verification

Schlitz Fed Com #204H & #213H

Tract List

TAP ROCK OPERATING



September 28, 2020

Via Certified Mail; Return Receipt Requested Address List Attached

EXHIBIT 5

Re:

**Schlitz Well Proposals** 

Section 9 and 16, Township 25 South, Range 26 East

Eddy County, New Mexico (the "Wells")

Dear Working Interest Owner:

Tap Rock Operating, LLC (TRO), as Operator, hereby proposes to drill the following Wells by pad drilling to prevent waste and protect correlative rights. Accordingly, enclosed are AFEs dated September 28, 2020 for the following:

Well Name	Surface Hole	<b>Bottom Hole Location</b>	Formation	TVD	MD
	Location (SHL)	(BHL)		(Feet)	(Feet)
Schlitz Fed Com	SE/4SE/4 Sec. 16,	200' FNL & 660' FEL	Wolfcamp A	8,570'	18,770'
#204H	T25S, R26E	Sec. 9, T25S, R26E			
Schlitz Fed Com	SE/4SE/4 Sec. 16,	200' FNL & 1980' FEL	Wolfcamp A	8,745'	18,945'
#213H	T25S, R26E	Sec. 9, T25S, R26E			
Schlitz Fed Com	SW/4SW/4 Sec. 16,	200' FNL & 1980' FWL	Wolfcamp A	8,570'	18,770'
#202H	T25S, R26E	Sec. 9, T25S, R26E			
Schlitz Fed Com	SW/4SW/4 Sec. 16,	200' FNL & 660' FWL	Wolfcamp A	8,745'	18,945'
#211H	T25S, R26E	Sec. 9, T25S, R26E	•		

The proposed locations and drilling plans described above are subject to change depending on surface or subsurface issues that may be encountered. TRO will advise you of any such modifications. A separate AFE for facility costs is forthcoming. Your election to participate in the drilling and completion of the proposed wells will also be considered an election to participate in the construction of the production facility.

In the event you elect to participate in the proposed Wells, please execute the enclosed AFEs and return to me within 30 days. TRO is proposing to drill these wells under the terms of the AAPL Form 610-1989 Operating Agreement which will be provided after an election to participate is received. This Operating Agreement will be limited to the Wolfcamp formation and cover Section 9 (All) and Section 16 (All), Township 25 South, Range 26 East, Eddy County, New Mexico.

If you do not wish to participate in the Operation, TRO would like to offer the following terms:

- 3 year primary term, Term Assignment
- Royalty equal to the difference between existing burdens and 20%

TAP ROCK OPERATING



• \$1,000 per net acre bonus consideration

The Term Assignment offer is subject to the approval of TRO's board and verification of title.

Additionally, TRO is open to discuss possible trades or other deal structures related to your interest in the proposed Wells. If an agreement cannot be reached within 30 days of the date of this letter, TRO will apply to the New Mexico Oil Conservation Division for compulsory pooling of your interest into a spacing unit for the proposed Wells to allow TRO to move forward with planning and drilling the Wells.

Should you have any questions regarding the above, please contact the undersigned.

Sincerely,

TAP ROCK OPERATING, LLC

Matthew C. Phillips Senior Landman Office: 720-459-3724 mphillips@taprk.com

TAP ROCK OPERATING, LLC 523 Park Point Dr, Ste. 200, Golden, Colorado 80401 Authorization For Expenditure

Name:	Schlitz	Fed	Com	#204H
AFE#:	0			
County:	Eddy			

Date: October 6, 2020 MD/TVD: 18770 / 8570 Lateral Length: 9750 Geologic Target: Welfagen 5

	INTANGIBLE DRILLING COSTS				INITANI	SIBLE COMPLETION COSTS				INTANGIBLE PRODUCTION COSTS	
OST CODES		AMOUNT	cos	CODES		DESCRIPTION	AMOUNT		CODES	DESCRIPTION	AMOUNT
1 1	Land - Legal	10,000	2	1	Land - Legal			3	1	Land - Legal	
1 2	Land - Regulatory	5,000	2	2	Land - Regula			3	3	Land - Regulatory Land - Surface Damages	
1 3	Land - Surface Damages Land - Survey	10,000	2	3	Land - Surface Land - Survey			3	4	Land - Survey	
1 4	Location/Pit Construction	140,000	2	5	Location/Pit C			3	5	Location/Pit Construction	5,000
1 6	Remedial Dirtwork	0	2	6	Remedial Dirt			3	6	Remedial Dirtwork	
1 7	Reserve/Frac Pit Closing	0	2	7	Reserve/Frac			3	7	Reserve/Frac Pit Closing	
1 8	Drilling - Contractor	316,040	2	8	Drilling - Cont			3	9	Drilling - Contractor  Mob/Rig Up - Contractor/Trucking	
1 9	Mob/Rig Up - Contractor/Trucking Cementing Services	123,250	2	9	Cementing Se	Contractor/Trucking		3	10	Cementing Services	
1 10	Cementing Services Cementing Equipment	0	2	11	Cementing Ed			3	11	Cementing Equipment	
1 12	Bits/Drill Out Assemblies	0	2	12	Bits/Drill Out	Assemblies	38,714	3	12	Bits/Drill Out Assemblies	
1 13	Fluid Circulation Equipment/Services	54,889	2	13		on Equipment/Services		3	13	Fluid Circulation Equipment/Services Fluids/Chemicals	
1 14	Fluids/Chemicals	321,750 263,250	2	14	Fluids/Chemi	s/Wastewater Disposal	34,000	3	14	WBM Cuttings/Wastewater Disposal	
1 15 1 16	WBM Cuttings/Wastewater Disposal OBM Cuttings/Chemical Disposal	97,500	2	16		s/Chemical Disposal		3	16	OBM Cuttings/Chemical Disposal	
1 17	Fuel/Power	88,825	2	17	Fuel/Power		282,100	3	17	Fuel/Power	
1 18	Water	0	2	18	Water		474,300	3	18	Water	
1 19	Directional Drilling	134,032	2	19	Directional D			3	19	Directional Drilling Mud Logging	
1 20	Mud Logging Open/Cased/Production Hole Logs	10,094	2	20	Mud Logging	Production Hole Logs	8,440	3	21	Open/Cased/Production Hole Logs	
1 21	Coring	0	2	22	Coring	Troduction Hole Logs	0,110	3	22	Coring	
1 23	Geologic Supervision	O	2	23	Geologic Sup	ervision		3	23	Geologic Supervision	
1 24	Engineering Supervision	0	2	24	Engineering S			3	24	Engineering Supervision	
1 25	Consultant Supervision	79,942	2	25	Consultant Su		75,600	3	25	Consultant Supervision Freight/Transportation	22,500 10,000
1 26	Freight/Transportation	20,000	2	26	Freight/Trans	portation	2,000 12,970	3	26 27	Labor	85,000
1 27 1 28	Labor Supplies - Surface	2,500	2	28	Supplies - Sur	face	2,000	3	28	Supplies - Surface	
1 29	Supplies - Living Quarters	1,000	2	29	Supplies - Liv		2,000	3	29	Supplies - Living Quarters	
1 30	Rentals - Surface	34,465	2	30	Rentals - Surf		18,840	3	30	Rentals - Surface	
1 31	Rentals - Living Quarters	20,430	2	31	Rentals - Livir		14,080	3	31	Rentals - Living Quarters	
1 32	Rentals - Downhole  Rentals - Pipe & Handling Tools	0	2	32	Rentals - Dov	vnhole & Handling Tools	0	3	32	Rentals - Downhole  Rentals - Pipe & Handling Tools	
1 33 1 34	Rentals - Frac Stack	0	2	34	Rentals - Frac		87,541	3	34	Rentals - Frac Stack	
1 35	Rentals - Frac Tanks		2	35	Rentals - Frac		29,120	3	35	Rentals - Frac Tanks	
1 36	Coil Tubing Unit/Workover Rig		2	36	Coil Tubing U	nit/Workover Rig	89,472	3	36	Coil Tubing Unit/Workover Rig	83,40
1 37	Wireline/Slickline/Perforating		2	37		kline/Perforating	223,531	3	37	Wireline/Slickline/Perforating	
1 38	Temporary Packers/Plugs		2	38	Temporary P.		39,200 52,470	3	38	Temporary Packers/Plugs High Pressure Pump Truck	
1 39 1 40	High Pressure Pump Truck Stimulation		2	39 40	Stimulation	e rump truck	1,799,818	3	40	Stimulation	
1 41	Rentals - Pressure Control		2	41	Rentals - Pres	ssure Control	27.237.232	3	41	Rentals - Pressure Control	
1 42	Flowback Services		2	42	Flowback Ser		46,715	3	42	Flowback Services	52,50
1 43	Water Transfer Services		2	43	Water Transf		71,550	3	43	Water Transfer Services	20.00
1 44	Flowback Water Trucking & Disposal		2	44		ter Trucking & Disposal	11,852	3	44	Flowback Water Trucking & Disposal	30,00
1 45 1 46	Permanent Equipment Installation Pipeline Tapping Services		2	45	Pipeline Tapp	quipment Installation		3	45	Permanent Equipment Installation Pipeline Tapping Services	
1 47	Plugging & Abandonment	0	2	47	Plugging & Al			3	47	Plugging & Abandonment	
1 53	Overhead	6,382	2	53	Overhead		15,825	3	53	Overhead	5,50
1 33										Insurance	
1 54	Insurance	33,786	2	54	Insurance			3	54		
	Contingency	89,657	2	54 55	Contingency		126,612	3		Contingency	21,14
1 54		89,657			Contingency	NGIBLE COMPLETION COSTS:	harman commence		54	Contingency  TOTAL INTANGIBLE PRODUCTION COSTS:	\$315,042
1 54	Contingency TOTAL INTANGIBLE DRILLING COSTS:	89,657			Contingency TOTAL INTA		-		54	TOTAL INTANGIBLE PRODUCTION COSTS:	
1 54	CONTINGENCY  TOTAL INTANGIBLE DRILLING COSTS:  TANGIBLE DRILLING COSTS	89,657	2		TOTAL INTA	INGIBLE COMPLETION COSTS:  IIBLE COMPLETION COSTS  DESCRIPTION	-	3	54	TOTAL INTANGIBLE PRODUCTION COSTS:  TANGIBLE PRODUCTION COSTS	
1 54 1 55 COST CODES 4 60	Contingency  TOTAL INTANGIBLE DRILLING COSTS:  TANGIBLE DRILLING COSTS  S DESCRIPTION Conductor Casing	89,657 \$1,882,794 AMOUNT	cos	55 T CODE 60	TANG S Conductor Ca	BIBLE COMPLETION COSTS DESCRIPTION USING	\$3,558,750	cos	54 55 57 CODES	TOTAL INTANGIBLE PRODUCTION COSTS:  TANGIBLE PRODUCTION COSTS  DESCRIPTION  Conductor Casing	\$315,042
1 54 1 55 cost codes 4 60 4 61	Contingency TOTAL INTANGIBLE DRILLING COSTS:  TANGIBLE DRILLING COSTS  DESCRIPTION CONDUCTOR CASING SURface Casing	89,657 \$1,882,794 AMOUNT 0 25,352	cos 5 5	55 T CODE 60 61	TANG S Conductor Ca Surface Casin	BIBLE COMPLETION COSTS DESCRIPTION USING	\$3,558,750	cos 6 6	54 55 57 CODES 60 61	TOTAL INTANGIBLE PRODUCTION COSTS:  TANGIBLE PRODUCTION COSTS DESCRIPTION  Conductor Casing  Surface Casing	\$315,042
1 54 1 55 cost codes 4 60 4 61 4 62	Contingency  TOTAL INTANGIBLE DRILLING COSTS:  TANGIBLE DRILLING COSTS  S DESCRIPTION  Conductor Casing Surface Casing 1st Intermediate Casing	89,657 \$1,882,794 AMOUNT 0 25,352 62,525	cos 5 5 5	55 T CODE 60 61 62	TANG S Conductor Ca Surface Casin 1st Intermed	DESCRIPTION COSTS DESCRIPTION USING US DESCRIPTION	\$3,558,750	cos 6 6	54 55 57 CODES 60 61 62	TOTAL INTANGIBLE PRODUCTION COSTS:  TANGIBLE PRODUCTION COSTS  DESCRIPTION  Conductor Casing Surface Casing 1st Intermediate Casing	\$315,042
1 54 1 55 COST CODES 4 60 4 61 4 62 4 63	Contingency TOTAL INTANGIBLE DRILLING COSTS:  TANGIBLE DRILLING COSTS DESCRIPTION Conductor Casing Surface Casing Just intermediate Casing 2nd Intermediate Casing	89,657 \$1,882,794 AMOUNT 0 25,352 62,525 241,897	5 5 5 5	55 T CODE 60 61 62 63	TANG S Conductor Ca Surface Casin 1st Intermed 2nd Intermed	DESCRIPTION COSTS DESCRIPTION USING US DESCRIPTION	\$3,558,750	5 6 6 6 6	54 55 60 61 62 63	TOTAL INTANGIBLE PRODUCTION COSTS:  TANGIBLE PRODUCTION COSTS  DESCRIPTION  Conductor Casing  Surface Casing  1st Intermediate Casing  2nd Intermediate Casing	\$315,042
1 54 1 55 cost codes 4 60 4 61 4 62	Contingency  TOTAL INTANGIBLE DRILLING COSTS:  TANGIBLE DRILLING COSTS  S DESCRIPTION  Conductor Casing Surface Casing 1st Intermediate Casing	89,657 \$1,882,794 AMOUNT 0 25,352 62,525	5 5 5 5	55 T CODE 60 61 62	TANG S Conductor Ca Surface Casin 1st Intermed	DESCRIPTION COSTS DESCRIPTION USING US DESCRIPTION	\$3,558,750	cos 6 6	54 55 57 CODES 60 61 62	TOTAL INTANGIBLE PRODUCTION COSTS:  TANGIBLE PRODUCTION COSTS  DESCRIPTION  Conductor Casing Surface Casing 1st Intermediate Casing	\$315,042
1 54 1 55 COST CODES 4 60 4 61 4 62 4 63 4 64	Contingency TOTAL INTANGIBLE DRILLING COSTS:  TANGIBLE DRILLING COSTS DESCRIPTION Conductor Casing Surface Casing Jast intermediate Casing 2nd Intermediate Casing Production Casing Tubing Wellhead	89,657 \$1,882,794 AMOUNT 0 25,352 62,525 241,897	5 5 5 5 5 5 5	55 T CODE 60 61 62 63 64	TANG S Conductor Ca Surface Casin 1st Intermed Production C Tubing Wellhead	BIBLE COMPLETION COSTS DESCRIPTION DISCRIPTION DISCRIP	\$3,558,750	6 6 6 6 6 6	54 55 57 CODES 60 61 62 63 64	TOTAL INTANGIBLE PRODUCTION COSTS:  TANGIBLE PRODUCTION COSTS  DESCRIPTION  Conductor Casing  Surface Casing  1st Intermediate Casing  2nd Intermediate Casing  Production Casing  Tubing  Wellhead	\$315,042 AMOUNT 50,000 43,500
1 54 1 55 2005T CODES 4 60 4 61 4 62 4 63 4 64 4 65 4 66 4 67	Contingency TOTAL INTANGIBLE DRILLING COSTS:  TANGIBLE DRILLING COSTS  DESCRIPTION CONDUCTOR COSTS SUFFICE CONTINUES COSTS SUFFICE CONTINUES COSTS JUNE CONTINUES COSTS JUNE COS	89,657 \$1,882,794 AMOUNT 0 25,352 62,525 241,897	5 5 5 5 5 5 5	55 T CODE 60 61 62 63 64 65 66 67	TANG S Conductor Ca Surface Casin 1st Intermed 2nd Intermed 2nd Intermed Tubing Wellhead Permanent P	DESCRIPTION COSTS DESCRIPTION USING US BE LET CASING LIST CASING	\$3,558,750	5 6 6 6 6 6 6 6	54 55 60 61 62 63 64 65 66	TOTAL INTANGIBLE PRODUCTION COSTS:  TANGIBLE PRODUCTION COSTS  DESCRIPTION  Conductor Casing  Surface Casing  1st Intermediate Casing 2nd Intermediate Casing Production Casing Tubing  Wellhead Permanent Packers/Hangers/Plugs	\$315,042 AMOUNT
1 54 1 55 COST CODES 4 60 4 61 4 62 4 63 4 64 4 65 4 66 4 67 4 68	Contingency TOTAL INTANGIBLE DRILLING COSTS:  TANGIBLE DRILLING COSTS DESCRIPTION  Conductor Casing Surface Casing 1st intermediate Casing 2nd Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks	89,657 \$1,882,794 AMOUNT 0 25,352 62,525 241,897	5 5 5 5 5 5 5	55 60 61 62 63 64 65 66 67 68	TANG S Conductor Ca Surface Casin 1st intermed 2nd intermed Production C Tubing Wellhead Permanent P Tanks	IBLE COMPLETION COSTS DESCRIPTION USING B B B B B B B B B B B B B B B B B B B	\$3,558,750	6 6 6 6 6 6 6	54 55 60 61 62 63 64 65 66 67 68	TOTAL INTANGIBLE PRODUCTION COSTS:  TANGIBLE PRODUCTION COSTS  DESCRIPTION  Conductor Casing Surface Casing 1st Intermediate Casing 2nd Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks	\$315,042 AMOUNT 50,000 43,500 10,000
1 54 1 55 2005T CODES 4 60 4 61 4 62 4 63 4 64 4 65 4 66 4 67 4 68 4 69	Contingency  TOTAL INTANGIBLE DRILLING COSTS:  TANGIBLE DRILLING COSTS  DESCRIPTION  Conductor Casing Surface Casing Jast Intermediate Casing And Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels	89,657 \$1,882,794 AMOUNT 0 25,352 62,525 241,897	5 5 5 5 5 5 5 5 5 5	55 60 61 62 63 64 65 66 67 68 69	TANG S Conductor Ca Surface Casin 1st Intermed 2nd Intermed Production C Tubing Wellhead Permanent P Tanks Production V	BIBLE COMPLETION COSTS DESCRIPTION DISCOURTION DISCOURTING BIG BIG BIG BIG BIG BIG BIG BIG BIG BI	\$3,558,750	6 6 6 6 6 6 6	54 55 60 61 62 63 64 65 66	TOTAL INTANGIBLE PRODUCTION COSTS:  TANGIBLE PRODUCTION COSTS  DESCRIPTION  Conductor Casing Sourface Casing 1st intermediate Casing 2nd intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels	\$315,042 AMOUNT 50,000 43,500
1 54 1 55 205T CODES 4 60 4 61 4 62 4 63 4 64 4 66 4 66 4 67 4 68 4 69 4 70	Contingency TOTAL INTANGIBLE DRILLING COSTS:  TANGIBLE DRILLING COSTS DESCRIPTION  Conductor Casing Surface Casing 1st intermediate Casing 2nd Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks	89,657 \$1,882,794 AMOUNT 0 25,352 62,525 241,897	5 5 5 5 5 5 5 5 5 5 5 5 5	55 60 61 62 63 64 65 66 67 68 69 70	TANG  TANG  S  Conductor Ca Surface Casin 1st intermed 2nd Intermed Production C Tubing Wellhead Permanent P Tanks Production V Compressors	IBLE COMPLETION COSTS DISCOUPTION USING  8 Battate Casing Jate Casing Jasing Jasing  ackers/Hangers/Plugs essels	\$3,558,750	6 6 6 6 6 6 6 6 6 6	54 55 60 61 62 63 64 65 66 67 68 69	TOTAL INTANGIBLE PRODUCTION COSTS:  TANGIBLE PRODUCTION COSTS  DESCRIPTION  Conductor Casing Surface Casing 1st Intermediate Casing 2nd Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks	\$315,042 AMOUNT 50,000 43,500 10,000
1 54 1 55 2005T CODES 4 60 4 61 4 62 4 63 4 64 4 65 4 66 4 67 4 68 4 69	Contingency TOTAL INTANGIBLE DRILLING COSTS:  TANGIBLE DRILLING COSTS  DESCRIPTION  Conductor Casing Surface Casing 1st Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors	89,657 \$1,882,794 AMOUNT 0 25,352 62,525 241,897	5 5 5 5 5 5 5 5 5 5	55 60 61 62 63 64 65 66 67 68 69	TANG S Conductor Ca Surface Casin 1st Intermed 2nd Intermed Production C Tubing Wellhead Permanent P Tanks Production V	IBLE COMPLETION COSTS DESCRIPTION USES OF THE PROPERTY OF T	\$3,558,750	6 6 6 6 6 6 6	54 55 60 61 62 63 64 65 66 67 68 69 70	TOTAL INTANGIBLE PRODUCTION COSTS:  TANGIBLE PRODUCTION COSTS  DESCRIPTION  Conductor Casing Surface Casing 1st Intermediate Casing 2nd Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors	\$315,042 AMOUNT 50,000 43,500 107,000
1 54 1 55 2 55 2 6 6 7 4 60 4 61 4 62 4 63 4 64 4 65 4 66 4 67 4 68 4 69 4 70 4 71 4 72 4 73	Contingency TOTAL INTANGIBLE DRILLING COSTS:  TANGIBLE DRILLING COSTS DESCRIPTION  Conductor Casing Surface Casing 1st intermediate Casing 2nd Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines Valves & Controllers	89,657 \$1,882,794 AMOUNT 0 25,352 62,525 241,897	2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	55 60 61 62 63 64 65 66 67 68 69 70 71 72 73	TANG  TANG  Conductor Ct  Surface Casin  Ist Intermed  2nd Intermed  Productino Ct  Tubing  Wellinead Permanent  Tanks  Productino Ct  Compressors  Surface Flowl  Gathering Lin  Valves & Compressors	IBLE COMPLETION COSTS DESCRIPTION USING  8 diate Casing diate Casing sising ackers/Hangers/Plugs essels lines tes trollers	\$3,558,750	5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	54 55 60 61 62 63 64 65 66 67 68 69 70 71 72 73	TOTAL INTANGIBLE PRODUCTION COSTS:  TANGIBLE PRODUCTION COSTS  DESCRIPTION  Conductor Casing  Surface Casing  1st Intermediate Casing  2nd Intermediate Casing  Production Casing  Tubing  Wellhead  Permanent Packers/Hangers/Plugs  Tanks  Production Vessels  Compressors  Surface Flowlines  Gathering Lines  Valves & Controllers	\$315,042 AMOUNT  50,000  10,000  10,000
1 54 1 55 205T CODES 4 60 4 61 4 62 4 63 4 64 4 65 4 66 4 67 4 68 4 69 4 70 4 72 4 73 4 74	Contingency  TOTAL INTANGIBLE DRILLING COSTS:  TANGIBLE DRILLING COSTS  DESCRIPTION  Conductor Casing Surface Casing Jast intermediate Casing 2nd Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines Valves & Controllers Artificial Lift Equipment	89,657 \$1,882,794 AMOUNT 0 25,352 62,525 241,897	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	55 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74	TANGS Conductor Cs Surface Casin 1st Intermed 2nd Intermed Production Cs Tubing Permanent P Tanks Production V Compressors Surface Flow Gathering Lin Valves & Con Artificial Lint Valves & Con	biBLE COMPLETION COSTS  DESCUPPION  DESCUPPION  BIG  BIG  BIG  BIG  BIG  BIG  BIG  BI	\$3,558,750	COX 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	54 55 60 61 62 63 64 65 66 67 68 69 70 71 72 73	TOTAL INTANGIBLE PRODUCTION COSTS:  TANGIBLE PRODUCTION COSTS  DESCRIPTION  Conductor Casing Surface Casing  1st Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines Valves & Controllers Artificial Lift Equipment	\$315,042 AMOUNT 50,000 43,500 107,000 50,000
1 54 1 55	Contingency TOTAL INTANGIBLE DRILLING COSTS:  TANGIBLE DRILLING COSTS  DESCRIPTION  Conductor Casing Surface Casing 3st Intermediate Casing 2nd Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines Valves & Controllers Artificial Lift Equipment Instrumentation & Measurement	89,657 \$1,882,794 AMOUNT 0 25,352 62,525 241,897	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	55 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74	TANGS  Conductor Cc Surface Casin 1st Intermed 2nd Intermed Production Cr Tubing Wellhead Permanent P Tanks Surface Flowl Gathering Lin Valves & Con Artificia Lift I linstrumental	IBLE COMPLETION COSTS DESCRIPTION USING  B  B  Idate Casing Idate Casi	\$3,558,750	COX 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	54 55 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74	TOTAL INTANGIBLE PRODUCTION COSTS:  TANGIBLE PRODUCTION COSTS  DESCRIPTION  Conductor Casing Surface Casing 1st Intermediate Casing 2nd Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines Valves & Controllers Artificial Lift Equipment Instrumentation & Measurement	\$315,042 AMOUNT  50,000  10,000  10,000
1 54 1 55	Contingency  TOTAL INTANGIBLE DRILLING COSTS:  TANGIBLE DRILLING COSTS DESCRIPTION  Conductor Casing Surface Casing Jast intermediate Casing 2nd Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines Valves & Controllers Artificial Lift Equipment Instrumentation & Measurement Electrical Coronding/Safety Equipment	89,657 \$1,882,794 AMOUNT 0 25,352 62,525 241,897	cost 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	55 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76	Contingency TOTAL INTA  TANGS Conductor Cs Surface Casin 1st intermed 2nd intermed Production C. Tubing Wellhead Permanent P. Tanks Production V. Compressors Surface Flowl Gathering Lin Valves & Con Artificial Lift instrumentat Linstrumentat	IBLE COMPLETION COSTS DESCRIPTION USING  B diate Casing diate Casing sing ackers/Hangers/Plugs ackers/Hangers/Plugs essels lines es trollers quipment ion & Measurement unding/Safety Equipment	\$3,558,750	cos 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	60 61 62 63 64 65 66 67 68 69 70 71 72 73 74	TOTAL INTANGIBLE PRODUCTION COSTS:  TANGIBLE PRODUCTION COSTS  DESCRIPTION  Conductor Casing  Surface Casing  1st intermediate Casing  2nd Intermediate Casing  Production Casing  Tubing  Wellhead  Permanent Packers/Hangers/Plugs  Tanks  Production Vessels  Compressors  Surface Flowlines  Gathering Lines  Valves & Controllers  Artificial Lift Equipment  Instrumentation & Measurement  Electrical Grounding/Safety Equipment	\$315,042 AMOUNT  50,000  10,000  10,000
1 54 1 55	Contingency  TOTAL INTANGIBLE DRILLING COSTS:  TANGIBLE DRILLING COSTS  DESCRIPTION  Conductor Casing  Surface Casing  1st intermediate Casing 2nd Intermediate Casing Production Casing Production Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines Valves & Controllers Artificial Life Equipment Instrumentation & Measurement Electrical Grounding/Safety Equipment Permanent Equipment Installation	89,657 \$1,882,794 AMOUNT 0 25,352 62,525 241,897	cost 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	55 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74	TANGS Conductor Ct Surface Casin 1st Intermed Production Ct Tubing Wellhead Permanent P Tanks Production V. Compressors Surface Flow Gathering Lin Valves & Con Artificial Lift Instrumental Electrical Gro	IBLE COMPLETION COSTS DESCRIPTION USING  B  B  B  B  B  B  B  B  B  B  B  B  B	\$3,558,750	COX 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	54 55 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74	TOTAL INTANGIBLE PRODUCTION COSTS:  TANGIBLE PRODUCTION COSTS  DESCRIPTION  Conductor Casing Surface Casing 1st Intermediate Casing 2nd Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines Valves & Controllers Artificial Lift Equipment Instrumentation & Measurement	\$315,042 AMOUNT  50,000  10,000  10,000
1	Contingency  TOTAL INTANGIBLE DRILLING COSTS:  TANGIBLE DRILLING COSTS  DESCRIPTION  Conductor Casing  Surface Casing  1st intermediate Casing 2nd Intermediate Casing Production Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines Valves & Controllers Artificial Life Equipment Instrumentation & Measurement Electrical Grounding/Safety Equipment Permanent Equipment Installation	89,657 \$1,882,794 AMOUNT 0 25,352 62,525 241,897	cost 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	555 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76	TANGS Conductor Ct Surface Casin 1st Intermed Production Ct Tubing Wellhead Permanent P Tanks Production V. Compressors Surface Flow Gathering Lin Valves & Con Artificial Lift Instrumental Electrical Gro	IBLE COMPLETION COSTS DISCOUPTION USING  B  Istate Casing	\$3,558,750	cos 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	54 55 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 80	TOTAL INTANGIBLE PRODUCTION COSTS:  TANGIBLE PRODUCTION COSTS  DESCRIPTION  Conductor Casing  Surface Casing  1st Intermediate Casing  2nd Intermediate Casing  Production Casing  Tubing  Wellhead  Permanent Packers/Hangers/Plugs  Tanks  Production Vessels  Compressors  Surface Flowlines  Gathering Lines  Valves & Controllers  Artificial Life Equipment  Instrumentation & Measurement  Electrical Grounding/Safety Equipment  Permanent Equipment Installation	\$315,042 AMOUNT  50,000  10,000  10,000
1	Contingency TOTAL INTANGIBLE DRILLING COSTS:  TANGIBLE DRILLING COSTS  DESCRIPTION  Conductor Casing Surface Casing 1st Intermediate Casing 1st Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines Valves & Controllers Artificial Lift Equipment Instrumentation & Measurement Electrical Grounding/Safety Equipment Permanent Equipment Installation Other - Surface	89,657 \$1,882,794 AMOUNT 0 25,352 62,525 241,897 348,683	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	555 60 61 62 63 64 65 66 67 70 71 72 73 74 75 76 77 80	TANGS Conductor Cs Surface Casin 1st intermed 2nd intermed Production Cs Tanks Wellhead Permanent P Tanks Production V Compressors Surface Flowl Gathering Lin Valves & Con Artificial Lift t Instrumentat Electrical Gro Permanent E Other - Surfa Other - Surfa	IBLE COMPLETION COSTS DISCOUPTION USING  B  Istate Casing	\$3,558,750	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	54 55 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 80	TOTAL INTANGIBLE PRODUCTION COSTS:  TANGIBLE PRODUCTION COSTS  DESCRIPTION  Conductor Casing Surface Casing 1st Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines Valves & Controllers Artificial Lift Equipment Instrumentation & Measurement Electrical Grounding/Safety Equipment Permanent Equipment Other - Surface	\$315,042 AMOUNT  50,000  10,000  10,000
1	Contingency  TOTAL INTANGIBLE DRILLING COSTS:  TANGIBLE DRILLING COSTS DESCRIPTION  Conductor Casing Surface Casing Jast intermediate Casing Jast intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines Valves & Controllers Artificial Lift Equipment Instrumentation & Measurement Electrical Corounding/Safety Equipment Permanent Equipment Installation Other - Surface Other - Surface Other - Surface	89,657 \$1,882,794 AMOUNT 0 25,352 62,525 241,897 348,683	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	555 60 61 62 63 64 65 66 67 70 71 72 73 74 75 76 77 80	TANGS Conductor Cs Surface Casin 1st intermed 2nd intermed Production Cs Tanks Wellhead Permanent P Tanks Production V Compressors Surface Flowl Gathering Lin Valves & Con Artificial Lift t Instrumentat Electrical Gro Permanent E Other - Surfa Other - Surfa	IBLE COMPLETION COSTS DESCRIPTION USING  B  Gliate Casing diate Casing diate Casing ackers/Hangers/Plugs ackers/Hangers/Plugs essels lines es trollers cquipment ion & Measurement unding/Safety Equipment quipment Installation cce hole	\$3,558,750  AMOUNT  0	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	54 55 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 80	TOTAL INTANGIBLE PRODUCTION COSTS:  TANGIBLE PRODUCTION COSTS  DISCIMPTON  Conductor Casing Surface Casing 1st Intermediate Casing 1st Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines Valves & Controllers Artificial Lift Equipment Instrumentation & Measurement Electrical Grounding/Safety Equipment Permanent Equipment Installation Other - Surface Other - Surface Other - Ownhole	\$315,042  AMOUNT  50,000  43,500  10,000  107,000  15,000
1	Contingency  TOTAL INTANGIBLE DRILLING COSTS:  TANGIBLE DRILLING COSTS  DESCRIPTION  Conductor Casing Surface Casing Jast intermediate Casing And Intermediate Casing Production Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines Valves & Controllers Artificial Lift Equipment Instrumentation & Measurement Electrical Grounding/Safety Equipment Permanent Equipment Installation Other - Surface Other - Downhole TOTAL TANGIBLE DRILLING COSTS:	89,657 \$1,882,794 AMOUNT  © 25,352 62,525 241,897 348,683  O	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	555 60 61 62 63 64 65 66 67 70 71 72 73 74 75 76 77 80	TANGS Conductor Cs Surface Casin 1st intermed 2nd intermed Production Cs Tanks Wellhead Permanent P Tanks Production V Compressors Surface Flowl Gathering Lin Valves & Con Artificial Lift t Instrumentat Electrical Gro Permanent E Other - Surfa Other - Surfa	IBBLE COMPLETION COSTS DESCRIPTION DESCRIPTION USING  B  B  B  B  B  B  B  B  B  B  B  B  B	\$3,558,750  AMOUNT  0 0 50	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	54 55 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 80	TOTAL INTANGIBLE PRODUCTION COSTS:  TANGIBLE PRODUCTION COSTS  DESCRIPTION  Conductor Casing  Surface Casing  1st Intermediate Casing  2nd Intermediate Casing  Production Casing  Tubing  Wellhead  Permanent Packers/Hangers/Plugs  Tanks  Production Vessels  Compressors  Surface Flowlines  Gathering lines  Valves & Controllers  Artificial Uff Equipment  Instrumentation & Measurement  Electrical Grounding/Safety Equipment  Permanent Equipment Installation  Other - Surface  Other - Downhole  TOTAL TANGIBLE PRODUCTION COSTS:	\$315,042  AMOUNT  50,000  43,500  10,000  15,000  \$50,000
1	Contingency  TOTAL INTANGIBLE DRILLING COSTS:  TANGIBLE DRILLING COSTS  DESCRIPTION  Conductor Casing Surface Casing Jast intermediate Casing And Intermediate Casing Production Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines Valves & Controllers Artificial Lift Equipment Instrumentation & Measurement Electrical Grounding/Safety Equipment Permanent Equipment Installation Other - Surface Other - Downhole TOTAL TANGIBLE DRILLING COSTS:	89,657 \$1,882,794 AMOUNT  © 25,352 62,525 241,897 348,683  O	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	555 60 61 62 63 64 65 66 67 70 71 72 73 74 75 76 77 80	TANGS Conductor Cs Surface Casin 1st intermed 2nd intermed Production Cs Tanks Wellhead Permanent P Tanks Production V Compressors Surface Flowl Gathering Lin Valves & Con Artificial Lift t Instrumentat Electrical Gro Permanent E Other - Surfa Other - Surfa	IBBLE COMPLETION COSTS DESCRIPTION DESCRIPTION USING  B  B  B  B  B  B  B  B  B  B  B  B  B	\$3,558,750  AMOUNT  0 0 50	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	54 55 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 80	TOTAL INTANGIBLE PRODUCTION COSTS:  TANGIBLE PRODUCTION COSTS  DESCRIPTION  Conductor Casing  Surface Casing  1st Intermediate Casing  2nd Intermediate Casing  Production Casing  Tubing  Wellhead  Permanent Packers/Hangers/Plugs  Tanks  Production Vessels  Compressors  Surface Flowlines  Gathering lines  Valves & Controllers  Artificial Uff Equipment  Instrumentation & Measurement  Electrical Grounding/Safety Equipment  Permanent Equipment Installation  Other - Surface  Other - Downhole  TOTAL TANGIBLE PRODUCTION COSTS:	\$315,042  AMOUNT  \$0,000 10,7,000 10,7,000 115,000 \$2,285,500 \$600,542
1	Contingency  TOTAL INTANGIBLE DRILLING COSTS:  TANGIBLE DRILLING COSTS  DESCRIPTION  Conductor Casing Surface Casing Just intermediate Casing Ard Intermediate Casing Production Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines Valves & Controllers Artificial Life Equipment Instrumentation & Measurement Electrical Grounding/Safety Equipment Permanent Equipment Installation Other - Surface Other - Downhole  TOTAL TANGIBLE DRILLING COSTS:	89,657 \$1,882,794 AMOUNT C 25,352 62,525 241,897 348,683 C 25,661,250	2 5 5 5 5 5 5 5 5 5 5 5 5 5	555 60 61 62 63 64 65 66 67 70 71 72 73 74 75 76 77 80	TANGS Conductor Cs Surface Casin 1st intermed 2nd intermed Production Cs Tanks Wellhead Permanent P Tanks Production V Compressors Surface Flowl Gathering Lin Valves & Con Artificial Lift t Instrumentat Electrical Gro Permanent E Other - Surfa Other - Surfa	IBBLE COMPLETION COSTS DESCRIPTION DESCRIPTION USING BE	\$3,558,750  AMOUNT  0 0 50	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	54 55 60 61 62 63 64 65 66 67 71 72 73 74 75 76 80 81	TOTAL INTANGIBLE PRODUCTION COSTS:  TANGIBLE PRODUCTION COSTS  DESCRIPTION  Conductor Casing  Surface Casing  1st Intermediate Casing  2nd Intermediate Casing  Production Casing  Tubing  Wellhead  Permanent Packers/Hangers/Plugs  Tanks  Production Vessels  Compressors  Surface Flowlines  Gathering lines  Valves & Controllers  Artificial Uff Equipment  Instrumentation & Measurement  Electrical Grounding/Safety Equipment  Permanent Equipment Installation  Other - Surface  Other - Oownhole  TOTAL TANGIBLE PRODUCTION COSTS:  TOTAL WELL COST:	\$315,042  AMOUNT  \$0,000 10,7,000 10,7,000 115,000 \$2,285,500 \$600,542
1	Contingency  TOTAL INTANGIBLE DRILLING COSTS:  TANGIBLE DRILLING COSTS  DESCRIPTION  Conductor Casing Surface Casing Jast intermediate Casing And Intermediate Casing Production Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines Valves & Controllers Artificial Lift Equipment Instrumentation & Measurement Electrical Grounding/Safety Equipment Permanent Equipment Installation Other - Surface Other - Downhole TOTAL TANGIBLE DRILLING COSTS:	89,657 \$1,882,794 AMOUNT C 25,352 62,525 241,897 348,683 C 25,661,250	2 5 5 5 5 5 5 5 5 5 5 5 5 5	555 60 61 62 63 64 65 66 67 70 71 72 73 74 75 76 77 80	TANGS Conductor Cs Surface Casin 1st intermed 2nd intermed 2nd intermed Production C. Tubing Wellhead Permanent P. Tanks Production V. Compressors Surface Flowl Gathering, Lin Valves & Con Artificial Lift t instrumentat Electrical Gron Permanent E Other - Surfa Other - Surfa	IBBLE COMPLETION COSTS DESCRIPTION DESCRIPTION USING BE	\$3,558,750  AMOUNT  0 0 50	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	54 55 60 61 62 63 64 65 66 67 71 72 73 74 75 76 80 81	TOTAL INTANGIBLE PRODUCTION COSTS:  TANGIBLE PRODUCTION COSTS  DESCRIPTION  Conductor Casing  Surface Casing  1st Intermediate Casing  2nd Intermediate Casing  Production Casing  Tubing  Wellhead  Permanent Packers/Hangers/Plugs  Tanks  Production Vessels  Compressors  Surface Flowlines  Gathering lines  Valves & Controllers  Artificial Uff Equipment  Instrumentation & Measurement  Electrical Grounding/Safety Equipment  Permanent Equipment Installation  Other - Surface  Other - Downhole  TOTAL TANGIBLE PRODUCTION COSTS:	\$315,042  AMOUNT  \$0,000 10,7,000 10,7,000 115,000 \$2,285,500 \$600,542
1	Contingency  TOTAL INTANGIBLE DRILLING COSTS:  TANGIBLE DRILLING COSTS  DESCRIPTION  Conductor Casing Surface Casing Just intermediate Casing Ard Intermediate Casing Production Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines Valves & Controllers Artificial Life Equipment Instrumentation & Measurement Electrical Grounding/Safety Equipment Permanent Equipment Installation Other - Surface Other - Downhole  TOTAL TANGIBLE DRILLING COSTS:	89,657 \$1,882,794 AMOUNT C 25,352 62,525 241,897 348,683 C 25,661,250	2 5 5 5 5 5 5 5 5 5 5 5 5 5	555 60 61 62 63 64 65 66 67 70 71 72 73 74 75 76 77 80	TANGS Conductor Cs Surface Casin 1st intermed 2nd intermed 2nd intermed Production C. Tubing Wellhead Permanent P. Tanks Production V. Compressors Surface Flowl Gathering, Lin Valves & Con Artificial Lift t instrumentat Electrical Gron Permanent E Other - Surfa Other - Surfa	IBBLE COMPLETION COSTS DESCRIPTION DESCRIPTION USING BE	\$3,558,750  AMOUNT  0 0 50	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	54 55 60 61 62 63 64 65 66 67 71 72 73 74 75 76 80 81	TOTAL INTANGIBLE PRODUCTION COSTS:  TANGIBLE PRODUCTION COSTS  DESCRIPTION  Conductor Casing  Surface Casing  1st Intermediate Casing  2nd Intermediate Casing  Production Casing  Tubing  Wellhead  Permanent Packers/Hangers/Plugs  Tanks  Production Vessels  Compressors  Surface Flowlines  Gathering lines  Valves & Controllers  Artificial Uff Equipment  Instrumentation & Measurement  Electrical Grounding/Safety Equipment  Permanent Equipment Installation  Other - Surface  Other - Oownhole  TOTAL TANGIBLE PRODUCTION COSTS:  TOTAL WELL COST:	\$315,042  AMOUNT  \$0,000 10,7,000 10,7,000 115,000 \$2,285,500 \$600,542
1	Contingency  TOTAL INTANGIBLE DRILLING COSTS:  TANGIBLE DRILLING COSTS  DESCRIPTION  Conductor Casing Surface Casing Just intermediate Casing Ard Intermediate Casing Production Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines Valves & Controllers Artificial Life Equipment Instrumentation & Measurement Electrical Grounding/Safety Equipment Permanent Equipment Installation Other - Surface Other - Downhole  TOTAL TANGIBLE DRILLING COSTS:	89,657 \$1,882,794  AMOUNT  0 25,332 62,525 241,897 348,683  0  \$5678,456 \$2,561,250	2 5 5 5 5 5 5 5 5 5 5 5 5 5	555 60 61 62 63 64 65 66 67 70 71 72 73 74 75 76 77 80	TANGS Conductor Cs Surface Casin 1st intermed 2nd intermed 2nd intermed Production C. Tubing Wellhead Permanent P. Tanks Production V. Compressors Surface Flowl Gathering, Lin Valves & Con Artificial Lift t instrumentat Electrical Gron Permanent E Other - Surfa Other - Surfa	IBBLE COMPLETION COSTS DESCRIPTION DESCRIPTION USING BE	\$3,558,750  AMOUNT  0 0 50	COX 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	54 55 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 80 81	TOTAL INTANGIBLE PRODUCTION COSTS:  TANGIBLE PRODUCTION COSTS  DESCRIPTION  Conductor Casing  Surface Casing  1st Intermediate Casing  2nd Intermediate Casing  Production Casing  Tubing  Wellhead  Permanent Packers/Hangers/Plugs  Tanks  Production Vessels  Compressors  Surface Flowlines  Gathering lines  Valves & Controllers  Artificial Uff Equipment  Instrumentation & Measurement  Electrical Grounding/Safety Equipment  Permanent Equipment Installation  Other - Surface  Other - Oownhole  TOTAL TANGIBLE PRODUCTION COSTS:  TOTAL WELL COST:	\$315,042  AMOUNT  \$0,000 10,7,000 10,7,000 115,000 \$2,285,500 \$600,542
1	Contingency TOTAL INTANGIBLE DRILLING COSTS:  TANGIBLE DRILLING COSTS DESCRIPTION  Conductor Casing Surface Casing 1st intermediate Casing 2nd Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines Valves & Controllers Artificial Lift Equipment Instrumentation & Measurement Electrical Grounding/Safety Equipment Permanent Equipment Installation Other - Surface Other - Downhole TOTAL TANGIBLE DRILLING COSTS: TOTAL DRILLING COSTS:	89,657 \$1,882,794  AMOUNT  0 25,332 62,525 241,897 348,683  0  \$5678,456 \$2,561,250	2 5 5 5 5 5 5 5 5 5 5 5 5 5	555 60 61 62 63 64 65 66 67 70 71 72 73 74 75 76 77 80	TANGS Conductor Cs Surface Casin 1st intermed 2nd intermed 2nd intermed Production C. Tubing Wellhead Permanent P. Tanks Production V. Compressors Surface Flowl Gathering, Lin Valves & Con Artificial Lift t instrumentat Electrical Gron Permanent E Other - Surfa Other - Surfa	IBBLE COMPLETION COSTS DESCRIPTION DESCRIPTION USING BE	\$3,558,750  AMOUNT  0 0 50	COX 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	54 55 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 80 81	TOTAL INTANGIBLE PRODUCTION COSTS:  TANGIBLE PRODUCTION COSTS  DESCRIPTION  Conductor Casing Surface Casing 1st Intermediate Casing 2nd Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines Valves & Controllers Artificial Lift Equipment Instrumentation & Measurement Electrical Grounding/Safety Equipment Permanent Equipment Installation Other - Surface Other - Downhole  TOTAL TANGIBLE PRODUCTION COSTS: TOTAL WELL COST:	\$315,042  AMOUNT  \$0,000 10,7,000 10,7,000 115,000 \$2,285,500 \$600,542
1	Contingency TOTAL INTANGIBLE DRILLING COSTS:  TANGIBLE DRILLING COSTS DESCRIPTION  Conductor Casing Surface Casing Surface Casing Surface Casing Jast intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines Valves & Controllers Artificial Lift Equipment Instrumentation & Measurement Electrical Grounding/Safety Equipment Permanent Equipment Installation Other - Surface Other - Downhole TOTAL TANGIBLE DRILLING COSTS:  TOTAL DRILLING COSTS:	89,657 \$1,882,794  AMOUNT 0 25,352 62,535 241,897 348,683 0 0 \$5678,456 \$2,561,250  COMPANY APPROV	2 5 5 5 5 5 5 5 5 5 5 5 5 5	555 60 61 62 63 64 65 66 67 70 71 72 73 74 75 76 77 80	TANGS Conductor Cs Surface Casin 1st intermed 2nd intermed 2nd intermed Production C. Tubing Wellhead Permanent P. Tanks Production V. Compressors Surface Flowl Gathering, Lin Valves & Con Artificial Lift t instrumentat Electrical Gron Permanent E Other - Surfa Other - Surfa	IBBLE COMPLETION COSTS DESCRIPTION DESCRIPTION USING BE	\$3,558,750  AMOUNT  0 0 50	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	54 55 60 60 61 62 63 64 65 66 67 70 71 72 73 74 80 81	TOTAL INTANGIBLE PRODUCTION COSTS:  TANGIBLE PRODUCTION COSTS  DESCRIPTION  Conductor Casing Surface Casing 1st Intermediate Casing 1st Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines Valves & Controllers Artificial Lift Equipment Instrumentation & Measurement Electrical Grounding/Safety Equipment Permanent Equipment Installation Other - Surface Other - Downhole  TOTAL TANGIBLE PRODUCTION COSTS: TOTAL PRODUCTION COSTS: TOTAL WELL COST:  MATING PARTNER APPROVAL:  MAME:	\$315,042  AMOUNT  \$0,000 10,7,000 10,7,000 115,000 \$2,285,500 \$600,542
1	Contingency TOTAL INTANGIBLE DRILLING COSTS:  TANGIBLE DRILLING COSTS DESCRIPTION  Conductor Casing Surface Casing 1st intermediate Casing 2nd Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines Valves & Controllers Artificial Lift Equipment Instrumentation & Measurement Electrical Grounding/Safety Equipment Permanent Equipment Installation Other - Surface Other - Downhole TOTAL TANGIBLE DRILLING COSTS: TOTAL DRILLING COSTS:	89,657 \$1,882,794  AMOUNT 0 25,352 62,535 241,897 348,683 0 0 \$5678,456 \$2,561,250  COMPANY APPROV	2 5 5 5 5 5 5 5 5 5 5 5 5 5	555 60 61 62 63 64 65 66 67 70 71 72 73 74 75 76 77 80	TANGS Conductor Cs Surface Casin 1st intermed 2nd intermed 2nd intermed Production C. Tubing Wellhead Permanent P. Tanks Production V. Compressors Surface Flowl Gathering, Lin Valves & Con Artificial Lift t instrumentat Electrical Gron Permanent E Other - Surfa Other - Surfa	IBBLE COMPLETION COSTS DESCRIPTION DESCRIPTION USING BE	\$3,558,750  AMOUNT  0  0  \$0  \$3,558,750	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	54 55 60 60 61 62 63 64 65 66 67 70 71 72 73 74 80 81	TOTAL INTANGIBLE PRODUCTION COSTS:  TANGIBLE PRODUCTION COSTS  DESCRIPTION  Conductor Casing Surface Casing 1st Intermediate Casing 1st Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines Valves & Controllers Artificial Lift Equipment Instrumentation & Measurement Electrical Grounding/Safety Equipment Permanent Equipment Installation Other - Surface Other - Downhole  TOTAL TANGIBLE PRODUCTION COSTS: TOTAL PRODUCTION COSTS: TOTAL WELL COST:  MATING PARTNER APPROVAL:  MAME:	\$315,042  AMOUNT  \$0,000 10,7,000 10,7,000 115,000 \$2,285,500 \$600,542
1	Contingency TOTAL INTANGIBLE DRILLING COSTS:  TANGIBLE DRILLING COSTS DESCRIPTION  Conductor Casing Surface Casing Surface Casing Surface Casing Jast intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines Valves & Controllers Artificial Lift Equipment Instrumentation & Measurement Electrical Grounding/Safety Equipment Permanent Equipment Installation Other - Surface Other - Downhole TOTAL TANGIBLE DRILLING COSTS:  TOTAL DRILLING COSTS:	89,657 \$1,882,794  AMOUNT 0 25,352 62,535 241,897 348,683 0 0 \$5678,456 \$2,561,250  COMPANY APPROV	2 5 5 5 5 5 5 5 5 5 5 5 5 5	555 60 61 62 63 64 65 66 67 70 71 72 73 74 75 76 77 80	TANGS Conductor Cs Surface Casin 1st intermed 2nd intermed 2nd intermed Production C. Tubing Wellhead Permanent P. Tanks Production V. Compressors Surface Flowl Gathering, Lin Valves & Con Artificial Lift t instrumentat Electrical Gron Permanent E Other - Surfa Other - Surfa	BIBLE COMPLETION COSTS DISCOUPTION DISCOUP	\$3,558,750  AMOUNT  0  0  \$0  \$3,558,750	3 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	54 555 60 60 61 62 63 64 65 66 67 70 71 72 73 74 75 76 77 80 81	TOTAL INTANGIBLE PRODUCTION COSTS:  TANGIBLE PRODUCTION COSTS  DESCRIPTION  Conductor Casing Surface Casing 1st Intermediate Casing 1st Intermediate Casing Production Casing Tubing  Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering lines Valves & Controllers Artificial Life Equipment Instrumentation & Measurement Electrical Grounding/Safety Equipment Permanent Equipment Installation Other - Downhole  TOTAL TANGIBLE PRODUCTION COSTS: TOTAL PRODUCTION COSTS:  TOTAL PRODUCTION COSTS:  TOTAL WELL COST:  MATING PARTNER APPROVAL:  MAME:	\$315,042  AMOUNT  \$0,000 10,7,000 10,7,000 115,000 \$2,285,500 \$600,542

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

### TAP ROCK OPERATING, LLC

523 Park Point Dr, Ste. 200, Golden, Colorado 80401 Authorization For Expenditure

Name:	Schlitz Fed Com	#213
AFE#:	0	
County:	Eddy	
State:	NM	

Date: October 6, 2020 MD/TVD: 18945 / 8745 Lateral Length: 9750 Geologic Target: Wolfcamp A

CODES	INTANCIDLE DOULTE COSTS				INTANGIBLE COMPLETION COSTS				INTANGIBLE PRODUCTION COSTS	
	INTANGIBLE DRILLING COSTS  DESCRIPTION	AMOUNT	cos	CODE		AMOUNT	cos	CODES		AMOUNT
1	Land - Legal	10,000	2	1	Land - Legal		3	1	Land - Legal	
2	Land - Regulatory	5,000	2	2	Land - Regulatory		3	3	Land - Regulatory Land - Surface Damages	
3	Land - Surface Damages Land - Survey	10,000	2	3 4	Land - Surface Damages Land - Survey		3	4	Land - Survey	
5	Location/Pit Construction	140,000	2	5	Location/Pit Construction		3	5	Location/Pit Construction	5,000
6	Remedial Dirtwork	0	2	6	Remedial Dirtwork		3	6	Remedial Dirtwork	
7	Reserve/Frac Pit Closing	0	2	7	Reserve/Frac Pit Closing		3	7	Reserve/Frac Pit Closing	
8	Drilling - Contractor	312,041	2	8	Drilling - Contractor		3	8	Drilling - Contractor  Mob/Rig Up - Contractor/Trucking	
9	Mob/Rig Up - Contractor/Trucking	123,250	2	9	Mob/Rig Up - Contractor/Trucking Cementing Services		3	9	Cementing Services	
10	Cementing Services Cementing Equipment	0	2	11	Cementing Equipment		3	11	Cementing Equipment	
12	Bits/Drill Out Assemblies	0	2	12	Bits/Drill Out Assemblies	38,714	3	12	Bits/Drill Out Assemblies	
13	Fluid Circulation Equipment/Services	54,206	2	13	Fluid Circulation Equipment/Services		3	13	Fluid Circulation Equipment/Services	
14	Fluids/Chemicals	321,750	2	14	Fluids/Chemicals WBM Cuttings/Wastewater Disposal	34,000	3	14	Fluids/Chemicals WBM Cuttings/Wastewater Disposal	
15	WBM Cuttings/Wastewater Disposal OBM Cuttings/Chemical Disposal	263,250 97,500	2	15 16	OBM Cuttings/Wastewater Disposal		3	16	OBM Cuttings/Chemical Disposal	
17	Fuel/Power	88,030	2	17	Fuel/Power	282,100	3	17	Fuel/Power	
18	Water	0	2	18	Water	474,300	3	18	Water	
19	Directional Drilling	132,363	2	19	Directional Drilling		3	19	Directional Drilling	
20	Mud Logging	9,888	2	20	Mud Logging Open/Cased/Production Hole Logs	8,440	3	20	Mud Logging Open/Cased/Production Hole Logs	
21	Open/Cased/Production Hole Logs Coring	0	2	21	Coring	8,440	3	22	Coring	
23	Geologic Supervision	0	2	23	Geologic Supervision		3	23	Geologic Supervision	
24	Engineering Supervision	0	2	24	Engineering Supervision		3	24	Engineering Supervision	70.10.0
25	Consultant Supervision	79,227	2	25	Consultant Supervision	75,600	3	25	Consultant Supervision	22,50 10,00
26	Freight/Transportation	20,000	2	26	Freight/Transportation	2,000 12,970	3	25 27	Freight/Transportation Labor	10,000 85,000
27	Labor Supplies - Surface	2,500	2	27	Labor Supplies - Surface	2,000	3	28	Supplies - Surface	02,00
28	Supplies - Surrace Supplies - Living Quarters	1,000	2	29	Supplies - Living Quarters	2,000	3	29	Supplies - Living Quarters	350
30	Rentals - Surface	34,036	2	30	Rentals - Surface	18,840	3	30	Rentals - Surface	
31	Rentals - Living Quarters	20,247	2	31	Rentals - Living Quarters	14,080	3	31	Rentals - Living Quarters	
32	Rentals - Downhole	0	2	32	Rentals - Downhole	0	3	32	Rentals - Downhole	
33	Rentals - Pipe & Handling Tools	0	2	33	Rentals - Pipe & Handling Tools Rentals - Frac Stack	87,541	3	33 34	Rentals - Pipe & Handling Tools Rentals - Frac Stack	
35	Rentals - Frac Stack Rentals - Frac Tanks		2	35	Rentals - Frac Tanks	29,120	3	35	Rentals - Frac Tanks	
36	Coil Tubing Unit/Workover Rig		2	36	Coil Tubing Unit/Workover Rig	89,472	3	36	Coil Tubing Unit/Workover Rig	83,400
37	Wireline/Slickline/Perforating		2	37	Wireline/Slickline/Perforating	223,531	3	37	Wireline/Slickline/Perforating	
38	Temporary Packers/Plugs		2	38	Temporary Packers/Plugs	39,200	3	38	Temporary Packers/Plugs	
39	High Pressure Pump Truck		2	39	High Pressure Pump Truck	52,470	3	39 40	High Pressure Pump Truck Stimulation	
40	Stimulation Rentals - Pressure Control		2	40	Stimulation Rentals - Pressure Control	1,799,818	3	41	Rentals - Pressure Control	
42	Flowback Services		2	42	Flowback Services	46,715	3	42	Flowback Services	52,50
43	Water Transfer Services		2	43	Water Transfer Services	71,550	3	43	Water Transfer Services	
44	Flowback Water Trucking & Disposal		2	44	Flowback Water Trucking & Disposal	11,852	3	44	Flowback Water Trucking & Disposal	30,00
45	Permanent Equipment Installation	-	2	45	Permanent Equipment Installation		3	45	Permanent Equipment Installation	
46	Pipeline Tapping Services		2	46	Pipeline Tapping Services		3	40	Pipeline Tapping Services Plugging & Abandonment	
				47	Plugging & Ahandonment		2	47	1 1000 mg or 1 100 mg or 1	
53	Plugging & Abandonment Overhead	6,303	2	47 53	Plugging & Abandonment Overhead	15,825	3	47 53	Overhead	5,50
53 54		6,303 34,101	2 2	53 54		15,825	3 3		Overhead Insurance	
53	Overhead Insurance Contingency	34,101 89,235	2	53	Overhead Insurance Contingency	126,612	3	53	Insurance Contingency	5,500 21,14
53 54	Overhead Insurance	34,101 89,235	2	53 54	Overhead Insurance	126,612	3	53 54	Insurance	
53 54	Overhead Insurance Contingency TOTAL INTANGIBLE DRILLING COSTS:	34,101 89,235	2	53 54	Overhead Insurance Contingency TOTAL INTANGIBLE COMPLETION COSTS:	126,612	3	53 54	Insurance Contingency TOTAL INTANGIBLE PRODUCTION COSTS:	21,14
53 54 55	Overhead Insurance Contingency TOTAL INTANGIBLE DRILLING COSTS: TANGIBLE DRILLING COSTS	34,101 89,235 \$1,873,925	2 2	53 54 55	Overhead Insurance Contingency TOTAL INTANGIBLE COMPLETION COSTS: TANGIBLE COMPLETION COSTS	126,612 \$3,558,750	3 3	53 54 55	Insurance Contingency TOTAL INTANGIBLE PRODUCTION COSTS: TANGIBLE PRODUCTION COSTS	\$315,042
53 54 55	Overhead Insurance Contingency TOTAL INTANGIBLE DRILLING COSTS: TANGIBLE DRILLING COSTS DECEMPTON	34,101 89,235	2 2 2	53 54 55	Overhead Insurance Contingency TOTAL INTANGIBLE COMPLETION COSTS:  TANGIBLE COMPLETION COSTS  DESCRIPTION	126,612	3 3 3	53 54	Insurance Contingency TOTAL INTANGIBLE PRODUCTION COSTS: TANGIBLE PRODUCTION COSTS	21,14
53 54 55	Overhead Insurance Contingency TOTAL INTANGIBLE DRILLING COSTS: TANGIBLE DRILLING COSTS	34,101 89,235 \$1,873,925	2 2	53 54 55	Overhead Insurance Contingency TOTAL INTANGIBLE COMPLETION COSTS: TANGIBLE COMPLETION COSTS	126,612 \$3,558,750	3 3	53 54 55	Insurance Contingency TOTAL INTANGIBLE PRODUCTION COSTS:  TANGIBLE PRODUCTION COSTS DESCRIPTION	\$315,042
53 54 55 CODES 60 61 62	Overhead Insurance Contingency TOTAL INTANGIBLE DRILLING COSTS:  TANGIBLE DRILLING COSTS DESCRIPTION Conductor Casing Surface Casing 1st Intermediate Casing	34,101 89,235 \$1,873,925 AMOUNT 0 25,352 62,525	2 2 2 2 5 5 5	53 54 55 T CODE 60 61 62	Overhead Insurance Contingency TOTAL INTANGIBLE COMPLETION COSTS:  TANGIBLE COMPLETION COSTS  DESCRIPTION Conductor Casing Surface Casing 1st intermediate Casing	126,612 \$3,558,750	3 3 3 5 6 6 6	53 54 55 55 57 CODE: 60 61 62	Insurance Contingency TOTAL INTANGIBLE PRODUCTION COSTS:  TANGIBLE PRODUCTION COSTS DESCRIPTION Conductor Casing Surface Casing Surface Casing 1st Intermediat	\$315,042
53 54 55 55 60 61 62 63	Overhead Insurance Contingency TOTAL INTANGIBLE DRILLING COSTS:  DESCRIPTION Conductor Casing Surface Casing Surface Casing 2nd Intermediate Casing 2nd Intermediate Casing	34,101 89,235 \$1,873,925 AMOUNT 0 25,352 62,525 247,484	2 2 2 2 5 5 5 5 5	53 54 55 T CODE 60 61 62 63	Overhead Insurance Contingency TOTAL INTANGIBLE COMPLETION COSTS:  TANGIBLE COMPLETION COSTS  S DESCRIPTION Conductor Casing Surface Casing 1st Intermediate Casing 2nd Intermediate Casing	126,612 \$3,558,750	3 3 3 6 6 6 6	53 54 55 57 CODE 60 61 62 63	Insurance Contingency TOTAL INTANGIBLE PRODUCTION COSTS:  TANGIBLE PRODUCTION COSTS DEScription Conductor Casing Surface Casing 1st Intermediate Casing 2nd Intermediate Casing	\$315,042
53 54 55 60 61 62 63 64	Overhead Insurance Contingency TOTAL INTANGIBLE DRILLING COSTS:  TANGIBLE DRILLING COSTS  DESCRIPTION Surface Casing 1st Intermediate Casing 2nd Intermediate Casing Production Casing	34,101 89,235 \$1,873,925 AMOUNT 0 25,352 62,525	2 2 2 5 5 5 5 5	53 54 55 T CODE 60 61 62 63 64	Overhead Insurance Contingency TOTAL INTANGIBLE COMPLETION COSTS:  TANGIBLE COMPLETION COSTS  S DESCRIPTION Conductor Casing Surface Casing 1st intermediate Casing 2nd Intermediate Casing Production Casing	126,612 \$3,558,750	3 3 3 3 cos 6 6 6 6 6	53 54 55 55 57 50 60 61 62 63 64	Insurance Contingency TOTAL INTANGIBLE PRODUCTION COSTS:  TANGIBLE PRODUCTION COSTS OEscalarion Conductor Casing Surface Casing 1st Intermediate Casing 2nd Intermediate Casing Production Casing	21,14 \$315,042 AMOUNT
53 54 55 60 61 62 63 64 65	Overhead Insurance Contingency TOTAL INTANGIBLE DRILLING COSTS: DESCRIPTION Conductor Casing Surface Casing 12 Intermediate Casing 2nd Intermediate Casing Production Casing Trubing	34,101 89,235 \$1,873,925 AMOUNT 0 25,352 62,525 247,484	2 2 2 2 5 5 5 5 5 5 5	53 54 55 7 CODE 60 61 62 63 64 65	Overhead Insurance Contingency TOTAL INTANGIBLE COMPLETION COSTS  TANGIBLE COMPLETION COSTS  DESCRIPTION Conductor Casing Surface Casing 1st intermediate Casing 2nd Intermediate Casing Production Casing Tubing Tubing	126,612 \$3,558,750	3 3 3 3 6 6 6 6 6 6	53 54 55 55 60 61 62 63 64 65	Insurance Contingency TOTAL INTANGIBLE PRODUCTION COSTS:  TANGIBLE PRODUCTION COSTS DEScription Conductor Casing Surface Casing 1st Intermediate Casing 2nd Intermediate Casing	21,14 \$315,042 AMOUNT
53 54 55 CODES 60 61 62 63 64	Overhead Insurance Contingency TOTAL INTANGIBLE DRILLING COSTS:  TANGIBLE DRILLING COSTS  DESCRIPTION Surface Casing 1st Intermediate Casing 2nd Intermediate Casing Production Casing	34,101 89,235 \$1,873,925 AMOUNT 0 25,352 62,525 247,484	2 2 2 5 5 5 5 5	53 54 55 T CODE 60 61 62 63 64	Overhead Insurance Contingency TOTAL INTANGIBLE COMPLETION COSTS:  TANGIBLE COMPLETION COSTS  S DESCRIPTION Conductor Casing Surface Casing 1st intermediate Casing 2nd Intermediate Casing Production Casing	126,612 \$3,558,750	3 3 3 3 cos 6 6 6 6 6	53 54 55 55 57 50 60 61 62 63 64	Insurance Contingency TOTAL INTANGIBLE PRODUCTION COSTS:  TANGIBLE PRODUCTION COSTS  DESCRIPTION Conductor Casing Surface Casing 1st Intermediate Casing 2nd Intermediate Casing Production Casing Tubing	21,14 \$315,042 AMOUNT 50,00 43,50
53 54 55 60 61 62 63 64 65 66 67 68	Overhead Insurance Contingency TOTAL INTANGIBLE DRILLING COSTS:  DESCRIPTION Conductor Casing Surface Casing 1st Intermediate Casing 2nd Intermediate Casing Production Casing Wellhead Permanent Packers/Hangers/Plugs Tanks	34,101 89,235 \$1,873,925 AMOUNT 0 25,352 62,525 247,484	2 2 2 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	53 54 55 55 60 61 62 63 64 65 66 67 68	Overhead Insurance Contingency TOTAL INTANGIBLE COMPLETION COSTS:  TANGIBLE COMPLETION COSTS  S DESCRIPTION Conductor Casing Surface Casing 1st Intermediate Casing 2nd Intermediate Casing Production Casing Tubing Weilhead Permanent Packers/Hangers/Plugs Tanks	126,612 \$3,558,750	3 3 3 3 6 6 6 6 6 6 6 6 6 6	53 54 55 60 61 62 63 64 65 66 67 68	Insurance Contingency TOTAL INTANGIBLE PRODUCTION COSTS:  TANGIBLE PRODUCTION COSTS  DESCRIPTION Conductor Casing Surface Casing 1st Intermediate Casing 2nd Intermediate Casing Production Casing Tubing Weilhead Permanent Packers/Hangers/Plugs Tanks	21,14 \$315,042 AMOUNT 50,000 43,50 10,000
53 54 55 60 61 62 63 64 65 66 67 68 69	Overhead Insurance Contingency  TOTAL INTANGIBLE DRILLING COSTS.  TANGIBLE DRILLING COSTS.  DESCRIPTION  Conductor Casing Surface Casing 1st Intermediate Casing Production Casing Production Casing Tubing Promator Casing Production Vessels	34,101 89,235 \$1,873,925 AMOUNT 0 25,352 62,525 247,484	2 2 2 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	53 54 55 60 61 62 63 64 65 66 67 68 69	Overhead Insurance Contingency TOTAL INTANGIBLE COMPLETION COSTS:  TANGIBLE COMPLETION COSTS  S DESCRIPTION CONDUCTOR CASING Surface Casing Jast Intermediate Casing 2nd Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels	126,612 \$3,558,750	3 3 3 3 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	53 54 55 60 61 62 63 64 65 66 67 68 69	Insurance Contingency TOTAL INTANGIBLE PRODUCTION COSTS:  TANGIBLE PRODUCTION COSTS  DEScuirrion Conductor Casing Surface Casing 1st intermediate Casing 2nd Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels	21,14 \$315,042 AMOUNT  50,00  43,50 10,00
53 54 55 60 61 62 63 64 65 66 67 68 69 70	Overhead Insurance Contingency TOTAL INTANGIBLE DRILLING COSTS:  TANGIBLE DRILLING COSTS:  DESCRIPTION  Conductor Casing Surface Casing 1st Intermediate Casing Production Casing Tubing Wellhead Wellhead Permanent Packers/Hangers/Plugs Tanks Tanks Compressors	34,101 89,235 \$1,873,925 AMOUNT 0 25,352 62,525 247,484	2 2 2 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	53 54 55 60 61 62 63 64 65 66 67 68 69 70	Overhead Insurance Contingency TOTAL INTANGIBLE COMPLETION COSTS:  TANGIBLE COMPLETION COSTS  S DESCRIPTION CONDUCTOR CASING 1st Intermediate Casing 2nd Intermediate Casing Tubing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors	126,612 \$3,558,750	3 3 3 3 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	53 54 55 60 61 62 63 64 65 66 67 68 69 70	Insurance Contingency TOTAL INTANGIBLE PRODUCTION COSTS:  TANGIBLE PRODUCTION COSTS  osconipmon Conductor Casing Surface Casing 1st Intermediate Casing 2nd Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors	21,14 \$315,042 AMOUNT  50,00 43,50 10,00 107,00
53 54 55 60 61 62 63 64 65 66 67 68 69 70	Overhead Insurance Contingency  TOTAL INTANGIBLE DRILLING COSTS:  TANGIBLE DRILLING COSTS DESCRIPTION  Conductor Casing Surface Casing 1st Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines	34,101 89,235 \$1,873,925 AMOUNT 0 25,352 62,525 247,484	2 2 2 2 2 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5	53 54 55 60 61 62 63 64 65 66 67 68 69 70	Overhead Insurance Contingency TOTAL INTANGIBLE COMPLETION COSTS:  TANGIBLE COMPLETION COSTS  SOSCRUPTION Conductor Casing Surface Casing Jast Intermediate Casing And Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines	126,612 \$3,558,750	COSS 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	53 54 55 60 61 62 63 64 65 66 67 68 69 70	Insurance Contingency TOTAL INTANGIBLE PRODUCTION COSTS:  TANGIBLE PRODUCTION COSTS  Conductor Casing Conductor Casing Surface Casing 1st Intermediate Casing 2nd Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines	21,142 \$315,042 AMOUNT 50,000 43,50 10,700 50,000
53 54 55 60 61 62 63 64 65 66 67 68 69 70 71	Overhead Insurance Contingency  TOTAL INTANGIBLE DRILLING COSTS:  TANGIBLE DRILLING COSTS  DESCRIPTION Surface Casing 1st Intermediate Casing Production Casing Tubing Tubing Permanent Packers/Hangers/Plugs Tanks Tanks Surface Flowlines Goathering Lines	34,101 89,235 \$1,873,925 AMOUNT 0 25,352 62,525 247,484	2 2 2 2 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	53 54 55 60 61 62 63 64 65 66 67 68 69 70 71	Overhead Insurance Contingency TOTAL INTANGIBLE COMPLETION COSTS:  TANGIBLE COMPLETION COSTS  SUFFACE CASING Surface Casing 1st Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Compressors Surface Flowlines Gathering Unes	126,612 \$3,558,750	3 3 3 3 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	53 54 55 60 61 62 63 64 65 66 67 68 69 70	Insurance Contingency TOTAL INTANGIBLE PRODUCTION COSTS:  TANGIBLE PRODUCTION COSTS  DESCRIPTION Conductor Casing Surface Casing Surface Casing 1st Intermediate Casing 2nd Intermediate Casing Production Casing Tubing Weilhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines	21,142 \$315,042 AMOUNT 50,000 43,50 10,700 50,000
53 54 55 60 61 62 63 64 65 66 67 68 69 70 71 72 73	Overhead Insurance Contingency  TOTAL INTANGIBLE DRILLING COSTS:  TANGIBLE DRILLING COSTS DESCRIPTION  Conductor Casing Surface Casing 1st Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines	34,101 89,235 \$1,873,925 AMOUNT 0 25,352 62,525 247,484	2 2 2 2 2 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5	53 54 55 60 61 62 63 64 65 66 67 68 69 70 71 72	Overhead Insurance Contingency TOTAL INTANGIBLE COMPLETION COSTS:  TANGIBLE COMPLETION COSTS  SOSCRUPTION Conductor Casing Surface Casing Jast Intermediate Casing And Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines	126,612 \$3,558,750	coss 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	53 54 55 60 61 62 63 64 65 66 67 68 69 70 71	Insurance Contingency TOTAL INTANGIBLE PRODUCTION COSTS:  TANGIBLE PRODUCTION COSTS  DESCRIPTION Conductor Casing Surface Casing 1st Intermediate Casing 2nd Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines Valves & Controllers	21,14 \$315,042 AMOUNT 50,000 43,50 10,000 107,000 100,000
53 54 55 60 61 62 63 64 65 66 67 68 69 70 71 72 73	Overhead Insurance Contingency TOTAL INTANGIBLE DRILLING COSTS:  TANGIBLE DRILLING COSTS:  DESCRIPTION  Conductor Casing Surface Casing 1st Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines Valves & Controllers	34,101 89,235 \$1,873,925 AMOUNT 0 25,352 62,525 247,484	2 2 2 2 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	53 54 55 60 61 62 63 64 65 66 67 68 69 70 71 72	Overhead Insurance Contingency TOTAL INTANGIBLE COMPLETION COSTS:  TANGIBLE COMPLETION COSTS  S DESCRIPTION CONDUCTOR CASING Surface Casing Jast Intermediate Casing And Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines Valves & Controllers Artificial Lift Equipment	126,612 \$3,558,750	COSS 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	53 54 55 60 61 62 63 64 65 66 67 68 69 70 71 72	Insurance Contingency TOTAL INTANGIBLE PRODUCTION COSTS:  TANGIBLE PRODUCTION COSTS  occupron Conductor Casing Surface Casing Jast Intermediate Casing 2nd Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines Valves & Controllers Artificial Lift Equipment Instrumentation & Measurement	21,14 \$315,042 AMOUNT 50,000 43,50 10,000 107,000 100,000
53 54 55 60 61 62 63 64 65 66 67 70 71 72 73 74 75 76	Overhead Insurance Contingency  TOTAL INTANGIBLE DRILLING COSTS:  DESCRIPTION  Conductor Casing Surface Casing 1st Intermediate Casing 1st Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines Valves & Controllers Artificial Lift Equipment Instrumentation & Measurement Electrical Grounding/Safety Equipment	34,101 89,235 \$1,873,925 AMOUNT 0 25,352 62,525 247,484	2 2 2 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	53 54 55 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74	Overhead Insurance Contingency TOTAL INTANGIBLE COMPLETION COSTS:  TANGIBLE COMPLETION COSTS  S OSCOUNTION OSCOUNTION OSCOUNTION JUSTICE S OSCOUNTION OSCO	126,612 \$3,558,750	cos 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	53 54 55 60 61 62 63 64 65 66 67 68 69 71 72 73 74 75 76	Insurance Contingency TOTAL INTANGIBLE PRODUCTION COSTS:  TANGIBLE PRODUCTION COSTS  Description Conductor Casing Surface Casing 1st Intermediate Casing 2nd Intermediate Casing Production Casing Tubing Weilhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines Valves & Controllers Artificial Lift Equipment Instrumentation & Measurement Electrical Grounding/Safety Equipment	21,14 \$315,042 AMOUNT 50,000 43,50 10,000 107,000 100,000
53 54 55 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76	Overhead Insurance Contingency  TOTAL INTANGIBLE DRILLING COSTS:  TANGIBLE DRILLING COSTS  DESCRIPTION  Surface Casing 3st Intermediate Casing 2nd Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines Valves & Controllers Artificial Lift Equipment Instrumentation & Measurement Electrical Grounding/Safety Equipment Electrical Grounding/Safety Equipment	34,101 89,235 \$1,873,925 AMOUNT 0 25,352 62,525 247,484	2 2 2 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	533 544 555 606 611 622 633 644 655 666 677 707 712 733 744 755 766	Overhead Insurance Contingency TOTAL INTANGIBLE COMPLETION COSTS  SESCUIPTION CONDUCTOR CASING Surface Casing 1st Intermediate Casing 2nd Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines Gathering Lines Tarks Artificial Lift Equipment Instrumentation & Measurement Lieutrical Grounding/Safety Equipment Permanent Equipment Installation	126,612 \$3,558,750	COX 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	53 54 55 60 61 62 63 64 65 66 67 71 72 73 74 75 76	Insurance Contingency TOTAL INTANGIBLE PRODUCTION COSTS:  TANGIBLE PRODUCTION COSTS  DESCRIPTION Conductor Casing Surface Casing 1st Intermediate Casing 2nd Intermediate Casing Production Casing Tubing Weilhead Production Casing Tubing Weilhead Froduction Vessels Compressors Surface Flowlines Gathering Lines Valves & Controllers Valves & Controllers Artificial Lift Equipment Instrumentation & Measurement Electrical Grounding/Safety Equipment Permanent Equipment Installation	21,14 \$315,042 AMOUNT 50,000 43,50 10,000 107,000 100,000
53 54 55 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 80	Overhead Insurance Contingency TOTAL INTANGIBLE DRILLING COSTS:  TANGIBLE DRILLING COSTS:  DESCRIPTION  Conductor Casing Surface Casing 1st Intermediate Casing Production Casing Tubing Wellhead Wellhead Permanent Packers/Hangers/Plugs Tanks Compressors Surface Flowlines Gathering Lines Valves & Controllers Artificial Lift Equipment Instrumentation & Measurement Electrical Grounding/Safety Equipment Permanent Equipment Installation	34,101 89,235 \$1,873,925 AMOUNT 0 25,352 62,525 247,484	2 2 2 2 2 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5	533 544 555 556 661 622 633 644 655 666 677 717 727 737 747 757 768	Overhead Insurance Contingency TOTAL INTANGIBLE COMPLETION COSTS  TANGIBLE COMPLETION COSTS  S DESCRIPTION CONDUCTOR CASING 1st Intermediate Casing 2nd Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Compressors Surface Flowlines Gathering Lines Valves & Controllers Artificial Lift Equipment Instrumentation & Measurement Electrical Grounding/Safety Equipment Permanent Equipment Instrumentation & Measurement Electrical Grounding/Safety Equipment Permanent Equipment Installation Other - Surface	126,612 \$3,558,750	COSS 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	53 54 55 60 61 62 63 64 65 66 67 70 71 72 73 74 75 76 77	Insurance Contingency TOTAL INTANGIBLE PRODUCTION COSTS:  TANGIBLE PRODUCTION COSTS  IDESCRIPTION Conductor Casing Surface Casing 2nd Intermediate Casing 2nd Intermediate Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines Valves & Controllers Artificial Lift Equipment Instrumentation & Measurement Electrical Grounding/Safety Equipment Permanent Equipment Installation Other - Surface	21,14 \$315,042 AMOUNT 50,000 43,50 10,000 107,000 100,000
53 54 55 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76	Overhead Insurance Contingency  TOTAL INTANGIBLE DRILLING COSTS.  DESCRIPTION  Conductor Casing Surface Casing 1st Intermediate Casing Production Casing Tubing Production Casing Tubing Weilhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines Variace Casing Total Intermediate Casing Production Casing Tubing Veilhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines Variace Flowlines Gathering Lines L	34,101 89,235 \$1,873,925 AMOUNT 0 25,332 62,525 247,484 351,964	2 2 2 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	533 544 555 606 611 622 633 644 655 666 677 707 712 733 744 755 766	Overhead Insurance Contingency TOTAL INTANGIBLE COMPLETION COSTS:  TANGIBLE COMPLETION COSTS obschuption Conductor Casing Surface Casing Jast Intermediate Casing And Intermediate Casing Production Casing Production Casing Tubing Weilhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines Valves & Controllers Artificial Lift Equipment Instrumentation & Measurement Electrical Grounding/Safety Equipment Permanent Equipment Installation Other - Surface Other - Surface	126.612 \$3,558,750 AMOUNT	COX 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	53 54 55 60 61 62 63 64 65 66 67 71 72 73 74 75 76	Insurance Contingency TOTAL INTANGIBLE PRODUCTION COSTS:  TANGIBLE PRODUCTION COSTS  IDESCRIPTION Conductor Casing Surface Casing Surface Casing 1st Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines Valves & Controllers Artificial Lift Equipment Instrumentation & Measurement Electrical Grounding/Safety Equipment Permanent Equipment Installation Other - Surface	\$315,042 AMOUNT  \$0.00 43,50 10,00 107,00 115,00
53 54 55 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 80	Overhead Insurance Contingency  TOTAL INTANGIBLE DRILLING COSTS:  TANGIBLE DRILLING COSTS  DESCRIPTION  Surface Casing 1st Intermediate Casing 2nd Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines Valves & Controllers Artificial Lift Equipment Instrumentation & Measurement Electrical Grounding/Safety Equipment Permanent Equipment Installation Other - Surface Other - Downhole  TOTAL TANGIBLE DRILLING COSTS:	34,101 89,235 \$1,873,925 AMOUNT 0 0,25,352 62,525 247,484 351,964 0	2 2 2 2 2 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5	533 544 555 556 661 622 633 644 655 666 677 717 727 737 747 757 768	Overhead Insurance Contingency TOTAL INTANGIBLE COMPLETION COSTS  TANGIBLE COMPLETION COSTS  S DESCRIPTION CONDUCTOR CASING 1st Intermediate Casing 2nd Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Compressors Surface Flowlines Gathering Lines Valves & Controllers Artificial Lift Equipment Instrumentation & Measurement Electrical Grounding/Safety Equipment Permanent Equipment Instrumentation & Measurement Electrical Grounding/Safety Equipment Permanent Equipment Installation Other - Surface	126.612 \$3,558,750 AMOUNT	COSS 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	53 54 55 60 61 62 63 64 65 66 67 70 71 72 73 74 75 76 77	Insurance Contingency TOTAL INTANGIBLE PRODUCTION COSTS:  TANGIBLE PRODUCTION COSTS  DESCRIPTION Conductor Casing Surface Casing 1st Intermediate Casing 2nd Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines Valves & Controllers Artificial Lift Equipment Instrumentation & Measurement Electrical Corounding/Safety Equipment Permanent Equipment Installation Other - Surface Other - Ownhole	\$315,042 AMOUNT  \$0.00 43,50 10,00 107,00 115,00
53 54 55 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 80	Overhead Insurance Contingency  TOTAL INTANGIBLE DRILLING COSTS.  DESCRIPTION  Conductor Casing Surface Casing 1st Intermediate Casing Production Casing Tubing Production Casing Tubing Weilhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines Variace Casing Total Intermediate Casing Production Casing Tubing Veilhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines Variace Flowlines Gathering Lines L	34,101 89,235 \$1,873,925 AMOUNT 0 0,25,352 62,525 247,484 351,964 0	2 2 2 2 2 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5	533 544 555 556 661 622 633 644 655 666 677 717 727 737 747 757 768	Overhead Insurance Contingency TOTAL INTANGIBLE COMPLETION COSTS:  TANGIBLE COMPLETION COSTS  SUFFACE CASING SUFFACE CASING 1st Intermediate Casing 2nd Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tarks Under Casing Production Vessels Compressors Surface Flowlines Gathering Lines Valves & Controllers Artificial Lift Equipment Instrumentation & Measurement Electrical Grounding/Safety Equipment Permanent Equipment Installation Other - Surface Other - Downhole TOTAL TANGIBLE COMPLETION COSTS:	126.612 \$3,558,750 AMOUNT	COSS 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	53 54 55 60 61 62 63 64 65 66 67 70 71 72 73 74 75 76 77	Insurance Contingency TOTAL INTANGIBLE PRODUCTION COSTS:  TANGIBLE PRODUCTION COSTS  OSCRIPTION SURFACE Casing Conductor Casing Surface Casing Jati Intermediate Casing 2nd Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Compressors Surface Flowlines Gathering Lines Valves & Controllers Artificial Lift Equipment Instrumentation & Measurement Electrical Grounding/Safety Equipment Permanent Equipment Installation Other - Surface Other - Downhole TOTAL TANGIBLE PRODUCTION COSTS:	21.14 \$315,042 AMOUNT  50.00 43,50 10,000 107,000 115,000 \$285,500 \$285,500
53 54 55 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 80	Overhead Insurance Contingency  TOTAL INTANGIBLE DRILLING COSTS:  TANGIBLE DRILLING COSTS  DESCRIPTION  Surface Casing 1st Intermediate Casing 2nd Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines Valves & Controllers Artificial Lift Equipment Instrumentation & Measurement Electrical Grounding/Safety Equipment Permanent Equipment Installation Other - Surface Other - Downhole  TOTAL TANGIBLE DRILLING COSTS:	34,101 89,235 \$1,873,925 AMOUNT 0 0,25,352 62,525 247,484 351,964 0	2 2 2 2 2 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5	533 544 555 556 661 622 633 644 655 666 677 717 727 737 747 757 768	Overhead Insurance Contingency TOTAL INTANGIBLE COMPLETION COSTS:  TANGIBLE COMPLETION COSTS  SUFFACE CASING SUFFACE CASING 1st Intermediate Casing 2nd Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tarks Under Casing Production Vessels Compressors Surface Flowlines Gathering Lines Valves & Controllers Artificial Lift Equipment Instrumentation & Measurement Electrical Grounding/Safety Equipment Permanent Equipment Installation Other - Surface Other - Downhole TOTAL TANGIBLE COMPLETION COSTS:	126.612 \$3,558,750 AMOUNT	COSS 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	53 54 55 60 61 62 63 64 65 66 67 70 71 72 73 74 75 76 77	Insurance Contingency TOTAL INTANGIBLE PRODUCTION COSTS:  TANGIBLE PRODUCTION COSTS  DISCRIPTION SURFACE Casing Conductor Casing Surface Casing 1st Intermediate Casing 2nd Intermediate Casing Production Casing Tubing Weilhead Production Casing Tubing Weilhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines Valves & Controllers Valves & Controllers Artificial Lift Equipment Instrumentation & Measurement Electrical Grounding/Safety Equipment Permanent Equipment Installation Other - Surface Other - Ownhole TOTAL TANGIBLE PRODUCTION COSTS:	21.14 \$315,042 AMOUNT  50.00 43,50 10,000 107,000 115,000 \$285,500 \$285,500
53 54 55 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 80	Overhead Insurance Contingency  TOTAL INTANGIBLE DRILLING COSTS:  TANGIBLE DRILLING COSTS  DESCRIPTION  Surface Casing 1st Intermediate Casing 2nd Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines Valves & Controllers Artificial Lift Equipment Instrumentation & Measurement Electrical Grounding/Safety Equipment Permanent Equipment Installation Other - Surface Other - Downhole  TOTAL TANGIBLE DRILLING COSTS:	34,101 89,235 \$1,873,925 AMOUNT 0 0,25,352 62,525 247,484 351,964 0	2 2 2 2 2 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5	533 544 555 556 661 622 633 644 655 666 677 717 727 737 747 757 768	Overhead Insurance Contingency TOTAL INTANGIBLE COMPLETION COSTS:  TANGIBLE COMPLETION COSTS  SUFFACE CASING SUFFACE CASING 1st Intermediate Casing 2nd Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tarks Under Casing Production Vessels Compressors Surface Flowlines Gathering Lines Valves & Controllers Artificial Lift Equipment Instrumentation & Measurement Electrical Grounding/Safety Equipment Permanent Equipment Installation Other - Surface Other - Downhole TOTAL TANGIBLE COMPLETION COSTS:	126.612 \$3,558,750 AMOUNT	COSS 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	53 54 55 60 61 62 63 64 65 66 67 70 71 72 73 74 75 76 77	Insurance Contingency TOTAL INTANGIBLE PRODUCTION COSTS:  TANGIBLE PRODUCTION COSTS  OSCRIPTION SURFACE Casing Conductor Casing Surface Casing Jati Intermediate Casing 2nd Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Compressors Surface Flowlines Gathering Lines Valves & Controllers Artificial Lift Equipment Instrumentation & Measurement Electrical Grounding/Safety Equipment Permanent Equipment Installation Other - Surface Other - Downhole TOTAL TANGIBLE PRODUCTION COSTS:	21,14 \$315,042 AMOUNT  50,000 43,50 10,000 10,000 115,000 \$285,500 \$600,542
53 54 55 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 80	Overhead Insurance Contingency  TOTAL INTANGIBLE DRILLING COSTS:  TANGIBLE DRILLING COSTS  DESCRIPTION Surface Casing Surface Casing 13st Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines Valves & Controllers Artificial Lift Equipment Instrumentation & Measurement Celectrical Grounding/Safety Equipment Permanent Equipment Installation Other - Surface Other - Downhole TOTAL TANGIBLE DRILLING COSTS:	34,101 89,235 \$1,873,925 AMOUNT 0 25,352 62,525 247,484 351,964 0	2 2 2 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	533 544 555 556 661 622 633 644 655 666 677 717 727 737 747 757 768	Overhead Insurance Contingency TOTAL INTANGIBLE COMPLETION COSTS:  TANGIBLE COMPLETION COSTS  SUFFACE CASING SUFFACE CASING 1st Intermediate Casing 2nd Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tarks Under Casing Production Vessels Compressors Surface Flowlines Gathering Lines Valves & Controllers Artificial Lift Equipment Instrumentation & Measurement Electrical Grounding/Safety Equipment Permanent Equipment Installation Other - Surface Other - Downhole TOTAL TANGIBLE COMPLETION COSTS:	126.612 \$3,558,750 AMOUNT	cos 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	53 54 55 60 61 62 63 64 65 66 67 70 71 72 73 74 80 81	Insurance Contingency TOTAL INTANGIBLE PRODUCTION COSTS:  TANGIBLE PRODUCTION COSTS  OISCRIPTION Surface Casing Conductor Casing Surface Casing 1st Intermediate Casing 2nd Intermediate Casing Production Casing Tubing Weilhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines Valves & Controllers Artificial Lift Equipment Instrumentation & Measurement Instrumentation & Me	21,14 \$315,042 AMOUNT  50,000 43,50 10,000 10,000 115,000 \$285,500 \$600,542
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AFE is an estimate only. By signing this AFE, you agree to pay your proportionate share of the actual costs.

Communication

## .0/21/20 - Tap Rock and EOG discuss potential trade via Microsoft Teams meeting; EOG is following up with management 2/1/20 - Murchison requests delaying election until closer to actual spud date for wells, Tap Rock agrees to allow option to 10/21/20 - Murchison confirms receipt of proposals, forwards operations inquiries and requests confirmation of working /18/21 - Call with EOG regarding trade; awaiting confirmation of NRI and moving forward with discussions /21/21 - Tap Rock provides EOG with acreage numbers for trade proposal; follow up email sent 6/2 10/19/20 - OXY USA forwards operations inquiries, asks for confirmation of working interest 10/19/20 - OXY Y-1 forwards operations inquiries, asks for confirmation of working interest 1/17/20 - Tap Rock follows up with EOG regarding the trade via email - no response 10/5/20 - MEC confirms receipt of proposals; requests working interest confirmation .0/29/20 - Tap Rock provides working interest and answers operations inquiries 10/29/20 - Tap Rock provides working interest and answers operations inquiries /11/21 - OXY provides requested revisions to JOA; Tap Rock reviewing /11/21 - OXY provides requested revisions to JOA; Tap Rock reviewing 5/2/21 - EOG responds and says they will discuss and get back in touch participate under JOA but notes that party will be pooled for protection 1/3/20 - Tap Rock provides JOA form per Murchison's request :/3/21 - Tap Rock provides updated spud dates upon request 10/5/20 - Tap Rock confirms MEC working interest 11/17/20 - Tap Rock answers operations inquiries 10/12/20 - EOG confirms receipt; proposes trade 0/27/20 - Tap Rock confirms working interest 1/28/20 - Sent well proposals 1/28/20 - Sent well proposals /28/20 - Sent well proposals /28/20 - Sent well proposals /28/20 - Sent well proposals Summary of Communication egarding structure nterest **MEC Petroleum Corporation** Murchison Oil & Gas, LLC Party EOG Resources, Inc. **OXY Y-1 Company** OXY USA, Inc.



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2/30/20 - Tap Rock follows up with Cimarex after continuance filed; Cimarex responds with request for updating timing

11/3/20 - Phone conversation to discuss proposals - no further communication

11/2/20 - Cimarex confirms receipt of proposals

10/21/20 - Sent well proposals

Cimarex Energy Company

/1/21 - Cimarex provides preferred terms for Term Assignment; Tap Rock currently evaluating

/18/21 - Cimarex asks Tap Rock for Term Assignment proposal

10/20/20 - MEC requests delaying election until closer to actual spud date for wells, Tap Rock agrees to allow option to

5/2/21 - MEC requests updated timing on spud/first production; Tap Rock provides

participate under JOA but notes that party will be pooled for protection

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

APPLICATION OF TAP ROCK OPERATING, LLC
FOR A STANDARD HORIZONTAL SPACING
AND PRORATION UNIT AND COMPULSORY POOLING,
LEA COUNTY, NEW MEXICO
Case No. 21612

### AFFIDAVIT OF MATTHEW JONES

I, being duly sworn on oath, state the following:

- 1. I am over the age of 18, and I have personal knowledge of the matters stated herein.
- 2. I am employed as a petroleum geologist for Tap Rock Operating, LLC ("Tap Rock"), and I am familiar with the subject applications and the geology involved.
- 3. This affidavit is submitted in connection with the filing by Tap Rock of the above-referenced compulsory pooling applications pursuant to 19.15.4.12.A(1) NMAC.
- 4. I have not previously testified before the New Mexico Oil Conservation Division. I hold a bachelor's degree in Chemistry and a master's degree in Geology from New Mexico State University. Since 2009 I have been employed as a petroleum geologist for several large independent and small private oil and gas companies. Much of my professional work since 2015 has focused on the Delaware Basin of New Mexico and Texas.
- 5. **Exhibit 7** is a Project Locator Map depicting the location of the Horizontal Spacing Unit ("HSU") within the Delaware Basin. Within Sections 9 & 16 of 25S 26E, are the Schlitz Fed Com #204H and #213H wells (the "Wells").
- 6. **Exhibit 8** is a Gun Barrel Diagram showing the planned Wolfcamp horizontal spacing for the Wells. This diagram shows the projected development of the two Wolfcamp Wells.

EXHIBIT C

A nearby type log has been included (for log descriptions, see Exhibit 10 below) to show approximate depths and reservoir quality of the selected landing zones.

- 7. **Exhibit 9** is a Wolfcamp A Structure Map. This map shows the location of the Schlitz Fed Com E/2 HSU outlined by the red box. The surface/bottom hole locations of the Wells are shown, zoomed in, to the right. The map is the top of the Wolfcamp A formation in sub-sea vertical depth. The contour intervals are 25 feet each. There is a monoclinal dip down to the east. The orientation of the Wells will each be approximately along strike. There are no horizontal wells in the direct vicinity that have targeted similar intervals within the Wolfcamp formation. However, there are horizontal wells shown on the map that are Wolfcamp producers in different intervals. The vertical wells controlling the structure map have the sub-sea vertical depth posted in maroon. The subsequent cross-section from A-A' (**Exhibit 10**) is also identified to locate our closest control on the reservoir properties for the Wells. I do not observe any faulting, pinch-outs, or other geologic impediments or hazards to developing this targeted interval with a horizontal well.
- 8. **Exhibit 10** is a Wolfcamp Stratigraphic Cross Section (flattened on the uppermost Wolfcamp surface). For each well, track 1 has a gamma ray log with interpreted color fill for lithology and scaled from 0 to 150 api units. For gamma ray, the blue colors indicate carbonate, yellow to orange are sandstone/siltstones, and the darker browns are shale facies. Track 2 has the deep resistivity log, scaled from 2 ohmm to 2000 ohmm. The red shading cutoff is at 10 ohmm or less to help identify the more siliciclastic rocks. Track 3 is the porosity track and contains the red neutron porosity curve and the blue density porosity curve, both scaled from 25% to 0%. The gray shading is separation of neutron and density porosity curves and typically interpreted as increasing clay content with increasing separation. The purple shading on the density porosity curve highlights anything greater than 8% porosity. This cutoff indicates the best rock properties for

reservoir evaluation. The cross-section identifies the key tops used to evaluate reservoirs and landing targets for the Wells. Peach circles on the depth track of Well 3 show the landing target intervals for the Wells.

- 9. **Exhibit 11** is an Isopach Map of the Gross Wolfcamp interval. This map shows the location of the Schlitz Fed Com E/2 outlined by the red box. The surface/bottom hole locations of the Wells are shown, zoomed in, to the right. The anticipated gross thickness of the interval is 2,100-2,175 feet throughout the HSU. The contour intervals are 25°. As previously stated, there are no horizontal wells that have targeted this specific interval in the direct vicinity, but all the horizontals shown on the map are landed in the Wolfcamp formation in different intervals. The location of the previous cross-section from A-A' is also shown on this map.
  - 10. Based on my geologic study of the area, I conclude the following:
    - a. The horizontal spacing and proration unit is justified from a geologic standpoint.
    - There are no structural impediments or faulting that will interfere with horizontal development.
    - c. Each quarter section in the HSU will contribute more or less equally to production.
    - d. The preferred well orientation in this area is south-north. This is because the inferred orientation of the maximum horizontal stress is roughly northwest-southeast.
- 11. **Exhibit 12** shows a Simplified Wellbore Diagram for each of the Wells in the HSU and demonstrate that the first and last take points for each well will be standard.
- 12. The Exhibits to this Affidavit were prepared by me, or compiled from Tap Rock's company business records.

- 13. The granting of this Application is in the interests of conservation and the prevention of waste.
  - 14. The foregoing is correct and complete to the best of my knowledge and belief.

FURTHER AFFIANT SAYETH NAUGHT

MATTHEW JONES

STATE OF COLORADO

)ss

COUNTY OF JEFFERSON)

Subscribed to and sworn before me this 5 day of June, 2021.

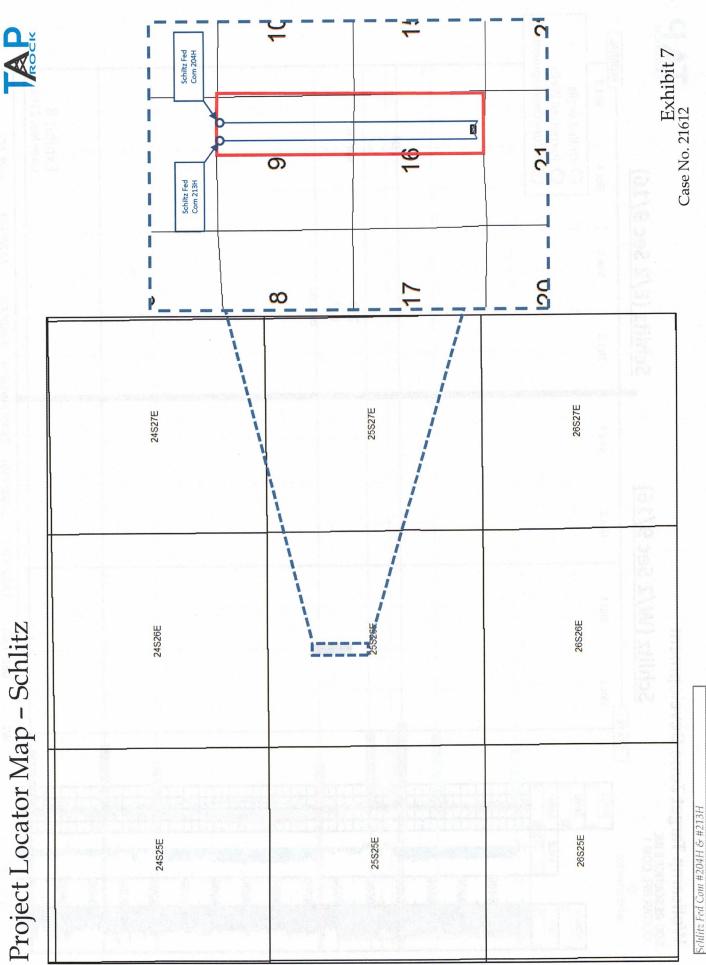
RACHELLE REESE NOTARY PUBLIC STATE OF COLORADO NOTARY ID 20124064461

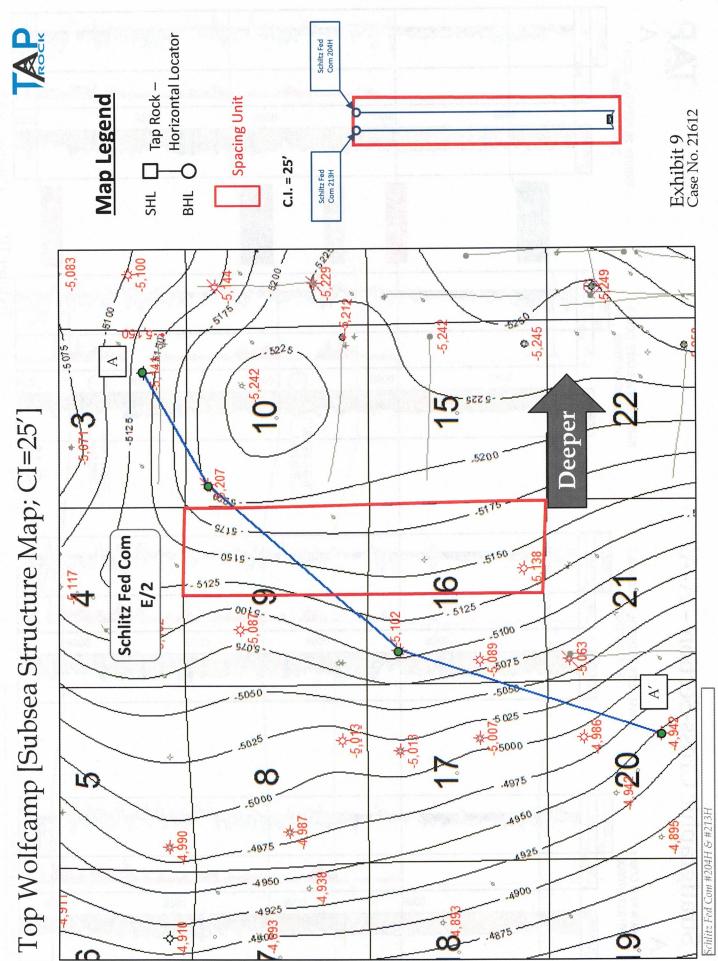
MY COMMISSION EXPIRES SEPTEMBER 28, 2024

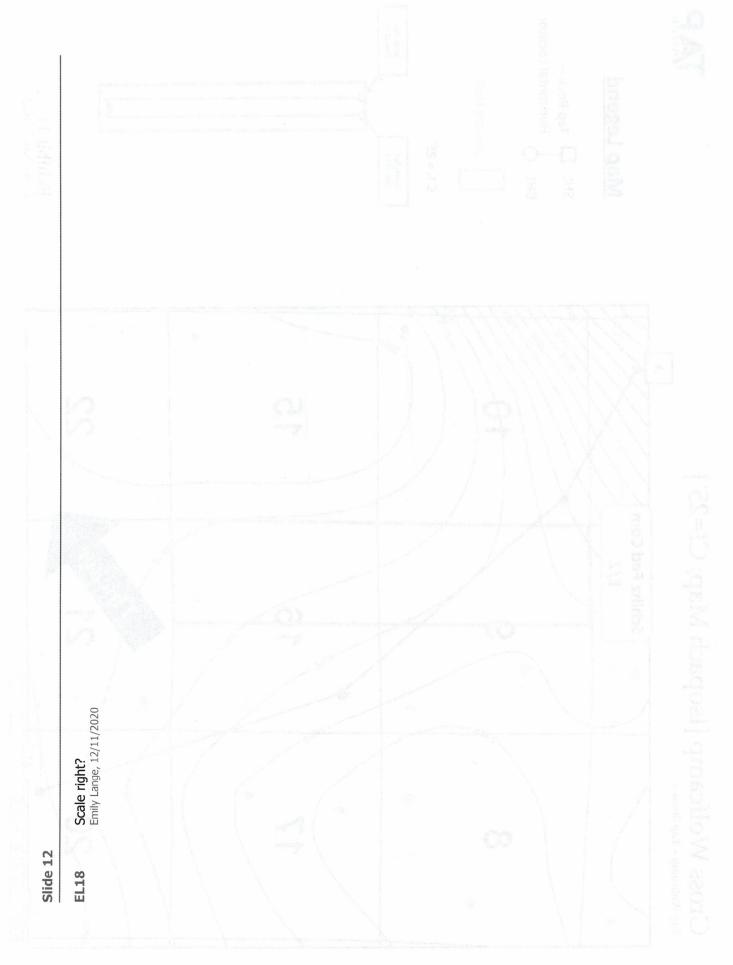
Notary Public

My Commission expires

9/20/2024







# Schlitz Fed Com 204H (2 mile S-N Lateral)



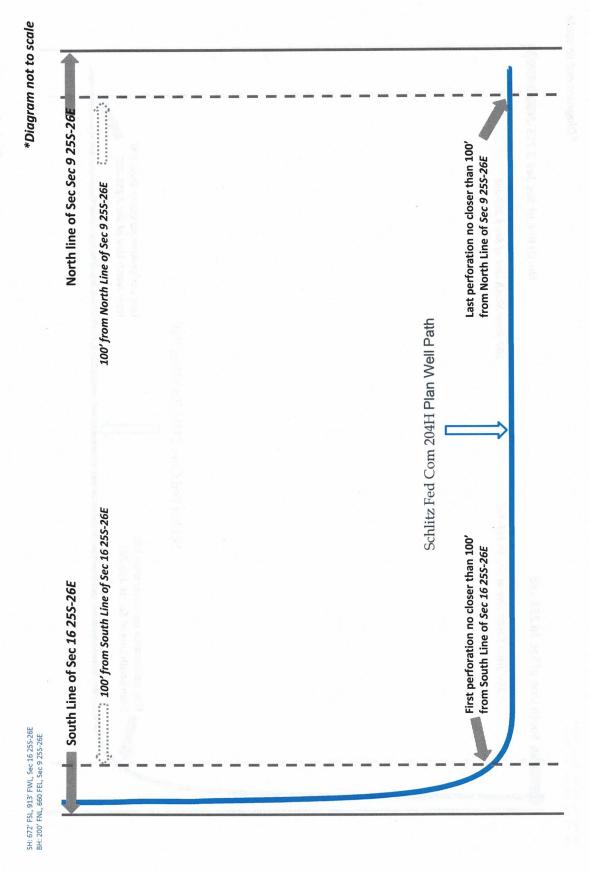


Exhibit 12A

Case No. 21612

Schlitz Fed Com #204H & #213F

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

APPLICATIONS OF TAP ROCK RESOURCES, LLC FOR COMPULSORY POOLING, EDDY COUNTY, NEW MEXICO.

Case Nos. 21611 and 21612

### **SELF-AFFIRMED STATEMENT OF NOTICE**

COUN	NTY OF	SANTA FE )
STAT	E OF N	) ss. EW MEXICO )
	James	Bruce deposes and states:
	1.	I am over the age of 18, and have personal knowledge of the matters stated herein.
	2.	I am an attorney for Tap Rock Resources, LLC.
names		Tap Rock Resources, LLC has conducted a good faith, diligent effort to find the rrect addresses of the interest owners entitled to receive notice of the applications
addres hereto	4. ses, by as Attac	Notice of the applications was provided to the interest owners, at their last known certified mail. Copies of the notice letters and certified return receipts are attached chment A.
Rules.	5.	Tap Rock Resources, LLC has complied with the notice provisions of Division
made u as of tl	ınder pe	I understand that this Self-Affirmed Statement will be used as written testimony affirm that my testimony in paragraphs 1 through 5 above is true and correct and is enalty of perjury under the laws of the State of New Mexico. My testimony is made nandwritten next to my signature below.  James Bruce

**EXHIBIT** 

Released to Imaging: 7/14/2021 9:26:41 AM

JAMES BRUCE ATTORNEY AT LAW

POST OFFICE BOX 1056 SANTA FE, NEW MEXICO 87504

369 MONTEZUMA, NO. 213 SANTA FE, NEW MEXICO 87501

(505) 982-2043 (Phone) (505) 660-6612 (Cell) (505) 982-2151 (Fax)

jamesbruc@aol.com

December 17, 2020



### <u>CERTIFIED MAIL – RETURN RECEIPT REQUESTED</u>

To: Persons on Exhibit A

Ladies and gentlemen:

Enclosed are copies of the following applications for compulsory pooling, filed with the New Mexico Oil Conservation Division by Tap Rock Resources, LLC:

- 1. Case No. 21611, regarding two Wolfcamp wells in the W/2 of Section 9 and the W/2 of Section 16;
- 2. Case No. 21612, regarding two Wolfcamp wells in the E/2 of Section 9 and the E/2 of Section 16;
- 3. Case No. 21613, regarding two Wolfcamp wells in the W/2 of Section 8 and the W/2 of Section 17; and
- 4. Case No. 21614, regarding two Wolfcamp wells in the E/2 of Section 8 and the E/2 of Section 17,

All in Township 25 South, Range 26 East, N.M.P.M., Eddy County, New Mexico.

These matters are scheduled for hearing at 8:15 a.m. on Thursday, January 7, 2021. During the COVID-19 Public Health Emergency, state buildings are closed to the public and the hearing will be conducted remotely. To determine the location of the hearing or to participate in an electronic hearing, go to <a href="mailto:emnrd.state.nm.us/OCD/hearings">emnrd.state.nm.us/OCD/hearings</a> or see the instructions posted on the Division's website, <a href="http://emnrd.state.nm.us/OCD/announcements.html">http://emnrd.state.nm.us/OCD/announcements.html</a>.

You are not required to attend this hearing, but as an owner of an interest who may be affected by the applications, you may appear and present testimony. Failure to appear at that time and become a party of record will preclude you from contesting these matters at a later date.

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A party appearing in a Division case is required by Division Rules to file a Pre-Hearing Statement no later than Thursday, December 31, 2020. This statement may be filed online with the Division at <u>ocd.hearings@state.nm.us</u>, and should include: The name of the party and his or her attorney; a concise statement of the case; the name(s) of the witness(es) the party will call to testify at the hearing; the approximate time the party will need to present his or her case; and identification of any procedural matters that need to be resolved prior to the hearing. The Pre-Hearing Statement must also be provided to the undersigned.

Very truly yours,

ames Bruce

Attorney for Tap Rock Resources, LLC

### EXHIBIT A

OXY USA Inc. OXY Y-1 Company 5 Greenway Plaza, Ste. 110 Houston, TX 77046

EOG Resources, Inc. 5509 Champions Dr. Midland, TX 79706

Murchison Oil & Gas, Inc. Legacy Tower One 7250 Dallas Parkway, Ste. 1400 Plano, TX 75024

MEC Petroleum Corp. 414 W. Texas Ave. Midland, TX 79701

McCombs Energy, LLC 5599 San Felipe, Ste. 1200 Houston, TX 77056 Postmark Here

SENDER: COMPLETE HIS SECTION	COMPLETE THIS SECTION ON DELIVERY	
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,	City, State, ZIP+4°				
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December 17, 2020

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All in Township 25 South, Range 26 East, N.M.P.M., Eddy County, New Mexico.

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Very truly yours,

James Bruce

Attorney for Tap Rock Resources, LLC

### EXHIBIT A

Cimarex Energy Co. Suite 600 600 North Marienfeld Midland, Texas 79701

19E	U.S. Postal Service <sup>™</sup> CERTIFIED MAIL® RECEIPT Domestic Mail Only For delivery information, visit our website at www.usps.som <sup>®</sup> .			
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jamesbruc@aol.com

January 11, 2021

### CERTIFIED MAIL - RETURN RECEIPT REQUESTED

To: Persons on Exhibit A

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- 2. Case No. 21612, regarding two Wolfcamp wells in the E/2 of Section 9 and the E/2 of Section 16;
- 3. Case No. 21613, regarding two Wolfcamp wells in the W/2 of Section 8 and the W/2 of Section 17;
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all in Township 25 South, Range 26 East, N.M.P.M., Eddy County, New Mexico.

These matters are scheduled for hearing at 8:15 a.m. on Thursday, February 18, 2021. During the COVID-19 Public Health Emergency, state buildings are closed to the public and the hearing will be conducted remotely. To determine the location of the hearing or to participate in an electronic hearing, go to <a href="mailto:emnrd.state.nm.us/OCD/hearings">emnrd.state.nm.us/OCD/hearings</a> or see the instructions posted on the Division's website, <a href="http://emnrd.state.nm.us/OCD/announcements.html">http://emnrd.state.nm.us/OCD/announcements.html</a>. You are not required to attend this hearing, but as an owner of an interest who may be affected by the applications, you may appear and present testimony. Failure to appear at that time and become a party of record will preclude you from contesting these matters at a later date.

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Very truly yours,

James Bruce

Attorney for Tap Rock Resources, LLC

### **EXHIBIT A**

McCombs Energy, LLC Suite 403 750 East Mulberry Avenue San Antonio, Texas 78212

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# Carlsbad Current Argus.

# Affidavit of Publication Ad # 0004525794 This is not an invoice

JAMES BRUCE ATTORNEY AT LAW POBOX 1056

SANTA FE, NM 87504

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:

12/25/2020

Legal Clerk

Subscribed and sworn before me this December 25, 2020:

State of WI, County of Brown
NOTARY PUBLIC

My commission expires

### NOTICE

To: OXY USA Inc., OXY Y-1 Company, EOG Resources, Inc., Murchison Oil & Gas, Inc., MEC Petroleum Corp., Cimarex Energy Co., and McCombs Energy, LLC, or your successors or assigns: Tap Rock Resources, LLC has filed four applications with the New Mexico Oil Conservation Division seeking the pooling of the Wolfcamp formation in the following well units:

- 1. Case No. 21611, regarding two Wolfcamp wells in the W/2 of Section 9 and the W/2 of Section 16;
- 2. Case No. 21612, regarding two Wolfcamp wells in the E/2 of Section 9 and the E/2 of Section 16;
- 3. Case No. 21613, regarding two Wolfcamp wells in the W/2 of Section 8 and the W/2 of Section 17; and
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#4525794, Current Argus, December 25, 2020

VICKY FELTY Notary Public State of Wisconsin **EXHIBIT** 



Ad # 0004525794 PO #: # of Affidavits1

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