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

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

APPLICATION OF ASCENT ENERGY, LLC FOR COMPULSORY POOLING, LEA COUNTY, NEW MEXICO.

Case No. 16483

APPLICATION OF ASCENT ENERGY, LLC FOR COMPULSORY POOLING, LEA COUNTY, NEW MEXICO.

Case No. 16485

#### VERIFIED STATEMENT OF LEE ZINK

Lee Zink, being duly sworn upon his oath, deposes and states:

- 1. I am a landman for Ascent Energy, LLC ("Ascent"), and have personal knowledge of the matters stated herein. I have been qualified by the Division as an expert petroleum landman.
- 2. Pursuant to NMAC 19.15.4.12.A(1), the following information is submitted in support of the compulsory pooling application filed herein:
  - (a) The purpose of this application is to force pool working interest owners into the Bone Spring and Wolfcamp horizontal spacing units described below, and in wells to be drilled in the units.
  - (b) No opposition is expected because the interest owners being pooled have been contacted regarding the proposed well, but have failed or refused to voluntarily commit their interests to the wells. All interest owners are locatable.
  - (c) The wells are in the Gavilon Development Area, a development area approved by the Bureau of Land management for drilling in the potash area. A plat outlining the Development area is attached as Attachment A.
  - (d) A plat outlining the Bone Spring unit being pooled in Case 16483 is attached hereto as Attachment B. Ascent seeks an order pooling all mineral interests in the Bone formation underlying the E/2W/2 of Section 28 and the E/2W/2 of Section 33, Township 20 South, Range 33 East, NMPM. The unit will be dedicated to:



- (i) the Gavilon Fed Com Well No. 505H, a Second Bone Spring test; and
- (ii) the Gavilon Fed Com Well No. 603H, a Third Bone Spring test.

They are horizontal wells with first take points in the SE/4SW/4 of Section 33 and final take points in the NE/4NW/4 of Section 28. The wells will comply with Division setback requirements.

The parties being pooled and their interests are set forth in Attachment B.

- (e) A plat outlining the Wolfcamp unit being pooled in Case 16485 is attached hereto as Attachment C. Ascent seeks an order pooling all mineral interests in the Wolfcamp formation underlying the E/2W/2 of Section 28 and the E/2W/2 of Section 33, Township 20 South, Range 33 East, NMPM. The unit will be dedicated to:
  - (i) the Gavilon Fed Com Well No. 705H, a lower Wolfcamp A test; and
  - (ii) the Gavilon Fed Com Well No. 706H, a upper Wolfcamp X Sand test.

They are horizontal wells with first take points in the SE/4SW/4 of Section 33 and final take points in the NE/4NW/4 of Section 28. The wells will comply with Division setback requirements.

The parties being pooled and their interests are set forth in Attachment C.

- (f) There are no depth severances in the Bone Spring and Wolfcamp formations.
- (g) Attachment F is a well proposal sent to Marathon Oil Permian LLC for the subject wells. Similar letters were sent to all other working interest owners. Ascent has had numerous contacts with all interest owners.
- (h) Ascent has made a good faith effort to obtain the voluntary joinder of the working interest owners in the proposed well.
- (i) Ascent has the right to pool the overriding royalty owners in the well unit.
- (j) Attachment F contains the Authorizations for Expenditure for the proposed wells. The estimated costs of the wells set forth therein are fair and reasonable, and comparable to the costs of other wells of similar depth and length drilled in this area of Lea County.
- (k) Ascent requests overhead and administrative rates of \$7500/month for a drilling well and \$750/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 portion of Lea County. They are also the rates set forth in the Joint Operating Agreement for the well unit. Ascent requests that these rates be adjusted periodically as provided in the COPAS Accounting Procedure.

- (l) Ascent requests that the maximum cost plus 200% risk charge be assessed against non-consenting working interest owners.
- (m) Ascent requests that it be designated operator of the wells.
- (m) The attachments to this affidavit were prepared by me, or compiled from Company business records.
- (n) The granting of this application is in the interests of conservation and the prevention of waste.

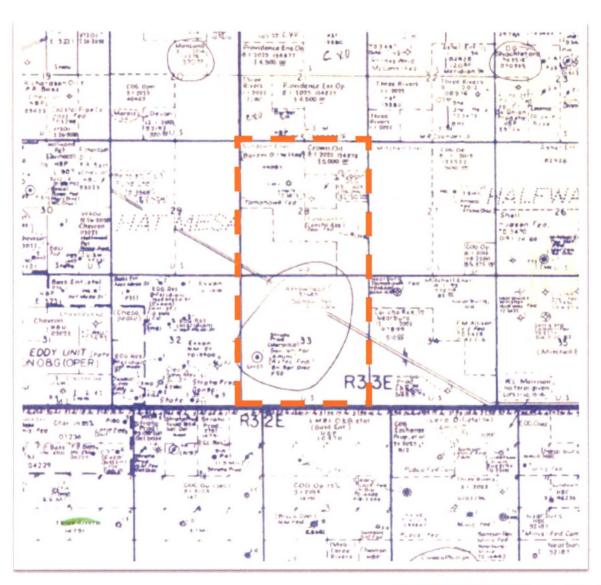
#### VERIFICATION

STATE (	OF COLORADO	)		
CITY AN	ND COUNTY OF DENVER	) ss. )		
Ascent E	ee Zink, being duly sworn upon henergy, LLC; he is authorized to g statement, and knows the content owledge, information, and belief.	make this verificates thereof; and the	ation on its bel	nalf; he has read the
Zink. S	UBSCRIBED AND SWORN TO	before me this	<u>31</u> day of 0	October, 2018 by Lee
My Com	mission Expires: 7/23/19	-	Welle Ul	Cotro

LAURIE C. OTERO
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 20074025628
MY COMMISSION CURRES 07/23/2019

# Gavilon Development Area Township 20 South, Range 33 East

Section 28: All Section 33: All 1,280.00 Gross Acres Lea County, NM



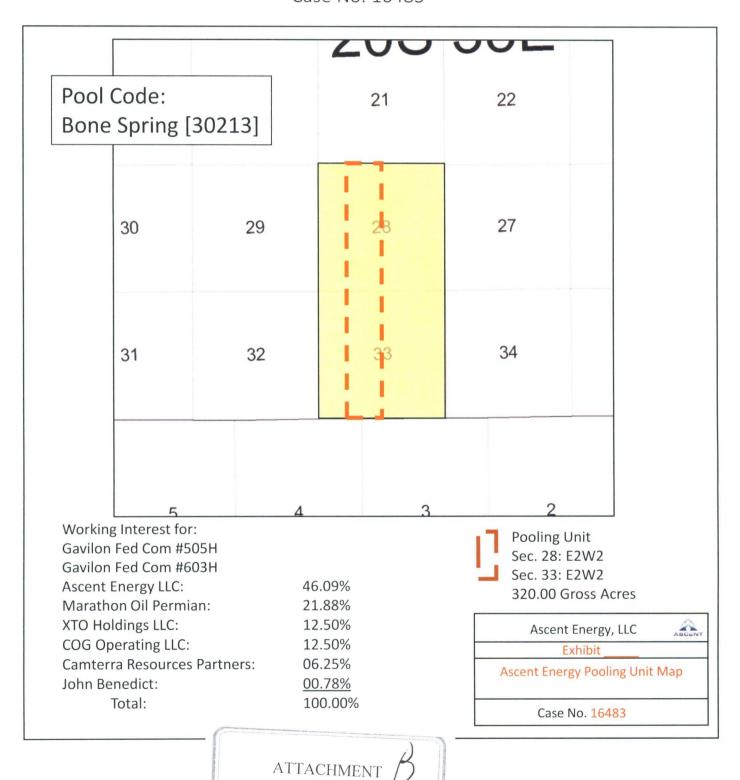




Ascent Energy, LLC	ASCENT
Exhibit	
Midland Map T20S-R33E	
1203-N33E	
Case No.	

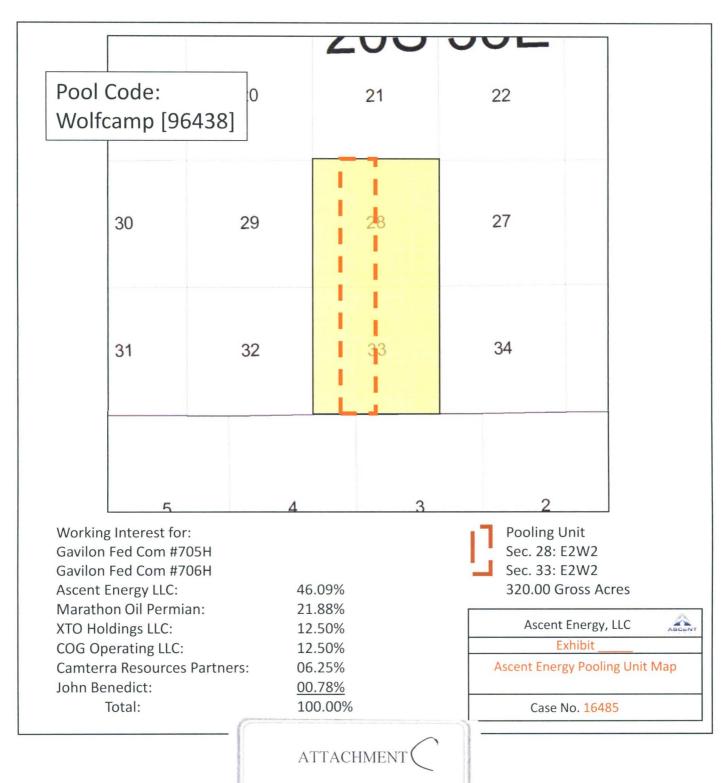
## Township 20 South, Range 33 East

Section 28: E2W2 Section 33: E2W2 320.00 Gross Acres Lea County, NM Case No. 16483



# Township 20 South, Range 33 East

Section 28: E2W2 Section 33: E2W2 320.00 Gross Acres Lea County, NM Case No. 16485





July 31, 2018

Marathon Oil Permian LLC 5555 San Felipe Street Houston, Texas 77056

Attn: Mr. Matt Brown

RE: Gavilon Development Area

<u>T20S-R30E</u> Sec. 28: E2W2 Sec. 33: E2W2

320 Gross Acres, more or less Lea County, New Mexico



Dear Working Interest Owner:

Ascent Energy, LLC ("Ascent") hereby proposes the drilling, completing and equipping the following wells to Marathon Oil Permian LLC ("Marathon") located in Sections 28 and 33 of T20S-R33E, Lea County, New Mexico (the "Wells").

1) Gavilon Fed Com #505H (the "505H Well") to test the Bone Spring formation at a total vertical depth of 10.516 and a total measured depth of 21,143". The proposed surface location of the 505H Well is 125" FSL, 1,988" FWL, T20S-R33E Sec. 33 with a bottom hole location of 100" FNL, 2,178" FWL, T20S-R33E Sec. 28.

The estimated cost associated with the 505H Well is \$9,278,660, as outlined in the enclosed Authority for Expenditure dated July 31, 2018. Ascent's records indicate that Marathon owns a 21.88% working interest in the 505H Well, and Marathon's estimated costs is approximately \$2,030,170.

2) Gavilon Fed Com #603H (the "603H Well") to test the Bone Spring formation at a total vertical depth of 11,371' and a total measured depth of 21,998'. The proposed surface location of the 603H Well is 125' FSL, 1,963' FWL, T20S-R33E Sec. 33 with a bottom hole location of 100' FNL, 1,650' FWL, T20S-R33E Sec. 28.

The estimated cost associated with the 603H Well is \$9,373,200, as outlined in the enclosed Authority for Expenditure dated July 31, 2018. Ascent's records indicate that Marathon owns a 21.88% working interest in the 603H Well, and Marathon's estimated costs is approximately \$2,050,856.

3) Gavilon Fed Com #705H (the "705H Well") to test the Wolfcamp formation at a total vertical depth of 11,653' and a total measured depth of 22,280'. The proposed surface location of the 705H Well is 125' FSL. 1,913' FWL, T20S-R33E Sec. 33 with a bottom hole location of 100' FNL, 1,650' FWL, T20S-R33E Sec. 28.

The estimated cost associated with the 705H Well is \$9,955,681, as outlined in the enclosed Authority for Expenditure dated July 20, 2018. Ascent's records indicate that Marathon owns a 21.88% working interest in the 705H Well, and Marathon's estimated costs is approximately \$2,178,303.

4) Gavilon Fed Com #706H (the "706H Well") to test the Wolfcamp formation at a total vertical depth of 11,494' and a total measured depth of 22,121'. The proposed surface location of the 706H Well is 125' FSL, 2,038' FWL, T20S-R33E Sec. 33 with a bottom hole location of 100' FNL, 2,310' FWL, T20S-R33E Sec. 28.

The estimated cost associated with the 706H Well is \$9,870,392, as outlined in the enclosed Authority for Expenditure dated July 31, 2018. Ascent's records indicate that Marathon owns a 21.88% working interest in the 706H Well, and Marathon's estimated costs is approximately \$2,159.642.

In addition, Ascent proposes the Wells under the terms of a modified 2015 Horizontal AAPL Form 610 Operating Agreement ("OA") with the following basic terms.

Contract Area:

Township 20 South, Range 33 East

Section 28: E2W2 Section 33: E2W2

- Ascent named as Operator
- 100%/300%/300% non-consent penalties
- \$8,000.00/\$800.00 drilling and producing overhead rates

Please indicate your election in the Wells and return a signed copy within thirty (30) days of receipt of this notice to Ascent. If Marathon is interested in selling its interest in the Contract Area, please contact the undersigned at your earliest convenience.

July 31, 2018 Gavilon Development Area Page 3 of 4

Ascent looks forward to working with Marathon on this matter and may file for compulsory pooling in the near future to pool any uncommitted working interest owners. If you have any questions or concerns, please do not hesitate to contact the undersigned at (720) 710-8923 or <a href="mailto:right-leaf">right-leaf</a>.

Very Truly Yours,

Lee Zink
Land Manager
Ascent Energy, LLC
1621 18th Street, Suite 200
Denver, CO 80202

Enclosure(s): Gavilon Fed Com #505H AFE

Gavilon Fed Com #603H AFE Gavilon Fed Com #705H AFE Gavilon Fed Com #706H AFE

Draft 2015 Horizontal AAPL Form 610 Operating Agreement (email only)

### Well Election(s)

Marathon hereby elects to participate in the proposed Gavilon Fed Com 505H by paying its proportionate share of the costs outlined on the associated AFE.
Marathon hereby elects not to participate in the proposed Gavilon Fed Com 505H.
Marathon hereby elects to participate in the proposed Gavilon Fed Com 603H by paying its proportionate share of the costs outlined on the associated AFE.
Marathon hereby elects not to participate in the proposed Gavilon Fed Com 603H.
Marathon hereby elects to participate in the proposed Gavilon Fed Com 705H by paying its proportionate share of the costs outlined on the associated AFE.
Marathon hereby elects not to participate in the proposed Gavilon Fed Com 705H.
Marathon hereby elects to participate in the proposed Gavilon Fed Com 706H by paying its proportionate share of the costs outlined on the associated AFE.
Marathon hereby elects not to participate in the proposed Gavilon Fed Com 706H.
Working Interest Owner:
Marathon Oil Permian LLC
By:
Title:
Date:

COST CE	NTER .	Ga	avilon Fed Com 505H		EAR 2018	DATE SUPPLEMENT NO.	July 31, 2018	
FIELD		Ha	at Mesa REGI		re Basin	LEGAL:	20S 33E	
OPERATO	OR .	As	scent Energy, LLC WELL	L NO.		W.I.		
OBJECTI			nd Bone Spring STAT	TE NM		MD/TVD	+/-21,143/10,516	
	-		CT START DATE: 1Q2019 Il a 10,360' lateral in the 2nd Bone Spring and frac v	with 63 stages Assu	mas A string das	lan		
DESCRIP	TION.	Uni	in a 10,360 lateral in the 2nd bone Spring and frac v	with 62 stages. Assu	mes 4 string des	ign.		
		]	INTANGIBLE DRILLING COSTS					
ACC		+-	DESCRIPTION	Rate	Units	DRYHOLE		TOTAL WELL COST
8305 8305	101		ocation Cleanup & Damages ig Move - MIRU, RDMO			\$125,000 \$100,000		\$125,000 100,000
8305	103		ig Contractor-Daywork/FT			\$696,000		696,000
8305	104		ig Contractor-Turnkey					0
8305 8305	105		ower & Fuel rill Fluids & Chemicals			\$130,000 \$125,000		130,000 125,000
8305	107		its, Reamer, Stabilizers			\$105,000		105,000
8305	108		ement & Cementing Services			\$210,000		210,000
8305 8305	109		lud Logging Ipen Hole Logging			\$80,000 \$30,000		80,000 30,000
8305	111		sg Crews & Tools			\$95,000		95,000
8305	112		rectional Tools & Service			\$210,000		210,000
8305 8305	114		orm Eval - Well Testing DST - Coring, Sampling ubular Inspection			\$20,000		20,000
8305	116		quipment Rentals			\$330,000		330,000
8305	117	C	Contract Labor & Services			\$125,000		125,000
8305	118		Vellsite Consultants Company Supervison & Labor			\$116,000		116,000
8305 8305	120		ransportation			\$20,000		20,000
8305	121	М	Aud,Cuttings & Water Disposal			\$80,000		80,000
8305	122		nsurance			\$40,410		40,410 25,000
8305	123	_	Overhead Nater & Water Well			\$25,000 \$50,000		50,000
8305	125		Jnanticipated MjrExp (Fishing)			\$50,000		0
8305	126		_egal			\$50,000		50,000
8305	127		Outside Operated Other Permits			\$20,000		20,000
8305	129		Environmental & Safety			\$20,000		20,000
8305	130		Plugging					0
8305	199		SUBTOTAL CONTINGENCY (%) 0.00%			\$2,802,410		\$2,802,410
0303	1,7,7		SUB-TOTAL INTANGIBLE DRILLING COSTS			\$2,802,410		\$2,802,410
		I	NTANGIBLE COMPLETION COSTS					
A	сст.	I	DESCRIPTION	Ra	te Units		COMPLETION	TOTAL WELL COST
8306	201	١.	Location & Cleanup					
8306							\$10,000	\$10,000
	202	F	Power & Fuel				\$10,000 10,000	\$10,000 10,000
8306	203	F	Power & Fuel Compl Fluids & Chemicals				\$10,000	\$10,000 10,000 45,000
		F	Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs				\$10,000 10,000 45,000	\$10,000 10,000 45,000 0
8306 8306 8306 8306	203 204 205 206	F	Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs				\$10,000 10,000	\$10,000 10,000 45,000 0 275,000
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8306 8306 8306 8306 8306 8306 8306	203 204 205 206 207 208 209 210	F F C C C C C C C C C C C C C C C C C C	Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logqing & Perforation Svcs Csq Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Evaluation				\$10,000 10,000 45,000 275,000	\$10,000 10,000 45,000 0 275,000 0 3,500,000
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8306 8306 8306 8306 8306 8306 8306 8306	203 204 205 206 207 208 209 210 211 212 213	F F F F F F F F F F F F F F F F F F F	Power & Fuel Compi Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logqing & Perforation Svcs Csq Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatin Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services	To contract the contract to th	ATT	ACHMENT (	\$10,000 10,000 45,000 275,000 3,500,000	\$10,000 10,000 45,000 0 275,000 0 3,500,000 0 200,000
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8306 8306 8306 8306 8306 8306 8306 8306	203 204 205 206 207 208 209 210 211 212 213 214 215 217 218 219 220 220 221 222 222 222 222 222 222 222	F F F F F F F F F F F F F F F F F F F	Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Stumulatn Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugging Completion Riq		ATT	ACHMENT E	\$10,000 10,000 45,000 275,000 3,500,000 200,000 120,000 15,000 641,250 95,000 35,000 5,000	\$10,000 10,000 45,000 0 0 275,000 0 3,500,000 0 200,000 120,000 120,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
8306 8306 8306 8306 8306 8306 8306 8306	203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 220 220 221 222 222 222 222 222 222 222	E F F F F F F F F F F F F F F F F F F F	Power & Fuel Compi Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logqing & Perforation Svcs Cag Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugqing Completion Riq Subtotal		ATT	ACHMENT E	\$10,000 10,000 45,000 275,000 3,500,000 200,000 120,000 15,000 641,250 95,000 35,000 75,000 30,000	\$10,000 10,000 45,000 0 275,000 0 3,500,000 200,000 120,000 120,000 15,000 641,250 641,250 75,000 35,000 30,000
8306 8306 8306 8306 8306 8306 8306 8306	203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 220 220 221 222 222 222 222 222 222 222	E F F F F F F F F F F F F F F F F F F F	Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Stumulatn Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugging Completion Riq		ATT	ACHMENT &	\$10,000 10,000 45,000 275,000 3,500,000 200,000 120,000 15,000 641,250 95,000 35,000 75,000 30,000 \$5,076,250	\$10,000 10,000 45,000 0 275,000 0 3,500,000 200,000 120,000 15,000 641,250 641,250 95,000 35,000 30,000 \$5,000
8306 8306 8306 8306 8306 8306 8306 8306	203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 220 220 221 222 222 222 222 222 222 222	E F F F F F F F F F F F F F F F F F F F	Power & Fuel Compi Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logqing & Perforation Svcs Cog Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatin Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugqing Completion Riq  SUBTOTAL CONTINGENCY (%) 0.00%		ATT		\$10,000 10,000 45,000 275,000 275,000 200,000 120,000 15,000 641,250 95,000 35,000 35,000 30,000 \$5,076,250 \$5,076,250	\$10,000 10,000 45,000 0 275,000 0 3,500,000 0 120,000 120,000 15,000 641,250 641,250 95,000 35,000 35,000 35,000 55,000 \$5,0
8306 8306 8306 8306 8306 8306 8306 8306	203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 220 220 221 222 222 222 222 222 222 222	E F F F F F F F F F F F F F F F F F F F	Power & Fuel Compi Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logqing & Perforation Svcs Cog Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatin Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugqing Completion Riq  Substotal Intangible Completion Costs		ATT	ACHMENT ( \$2,802,410	\$10,000 10,000 45,000 275,000 3,500,000 200,000 120,000 15,000 641,250 95,000 35,000 75,000 30,000 \$5,076,250	\$10,000 10,000 45,000 0 275,000 0 3,500,000 200,000 120,000 15,000 641,250 641,250 95,000 35,000 30,000 \$5,000
8306 8306 8306 8306 8306 8306 8306 8306	203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 220 220 221 222 222 222 222 222 222 222	E F F F F F F F F F F F F F F F F F F F	Power & Fuel Compi Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logqing & Perforation Svcs Cog Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Mics Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugqing Completion Riq  Subotal Intangible Completion Costs Sub-Total Intangible Completion Costs Sub-Total Intangible Completion Costs Sub-Total Intangible Completion Costs		ATT.	\$2,802,410	\$10,000 10,000 45,000 275,000 275,000 200,000 120,000 15,000 641,250 95,000 35,000 35,000 30,000 \$5,076,250 \$5,076,250	\$10,000 10,000 45,000 0 275,000 0 0 3,500,000 0 120,000 120,000 0 15,000 0 641,256 0 95,000 35,000 35,000 \$5,000 \$\$5,076,256 \$7,878,666
8306 8306 8306 8306 8306 8306 8306 8306	203 204 205 205 206 207 208 209 210 211 212 213 215 217 222 222 223 224 225 227 228	F F F F F F F F F F F F F F F F F F F	Power & Fuel Compi Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logqing & Perforation Svcs Cog Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugqing Completion Riq  Subt-Total Intangible Completion Costs Sub-Total Intangible Costs  TANGIBLE DRILLING COSTS	The state of the s	late Units	\$2,802,410 DRYHOLE	\$10,000 10,000 45,000 275,000 275,000 200,000 120,000 15,000 641,250 95,000 35,000 35,000 30,000 \$5,076,250 \$5,076,250	\$10,000 10,000 45,000 0 275,000 0 3,500,000 0 200,000 120,000 120,000 15,000 0 35,000 0 35,000 0 35,000 0 15,000 0 35,000 0 35,000 0 35,000 0 30,000 0 \$5,076,25
8306 8306 8306 8306 8306 8306 8306 8306	203 204 205 205 206 207 208 209 210 212 213 214 215 215 216 217 222 222 222 222 222 222 222 222 222	F F F F F F F F F F F F F F F F F F F	Power & Fuel Compi Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logqing & Perforation Svcs Cog Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatin Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Pluqqing Completion Riq  SubTotal Intangible Completion Costs Sub-Total Intangible Costs  TANGIBLE DRILLING COSTS  DESCRIPTION Drive Pipe Conductor Casing Surface Casing		late Units	\$2,802,410 DRYHOLE 0 \$20,000 0 \$50,000	\$10,000 10,000 45,000 275,000 275,000 200,000 120,000 15,000 641,250 95,000 35,000 35,000 30,000 \$5,076,250 \$5,076,250 \$5,076,250	\$10,000 10,000 45,000 0 275,000 0 0 3,500,000 0 120,000 120,000 0 15,000 0 641,256 0 95,000 35,000 35,000 \$5,000 \$\$5,076,256 \$7,878,666
8306 8306 8306 8306 8306 8306 8306 8306	203 204 205 205 206 207 208 209 210 211 212 213 214 215 217 220 221 222 223 224 225 227 228 229 229 220 230 240 240 250 260 260 27 27 27 28 28 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	F F F F F F F F F F F F F F F F F F F	Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Cag Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugqing Completion Riq Subrotal Subrotal Subrotal Intansible Completion Costs Sub-Total Intansible Costs  TANGIBLE DRILLING COSTS  DESCRIPTION Drive Pipe Conductor Casing Surface Casing Intermediate Casing	\$ \$ \$	late Units	\$2,802,410  DRYHOLE 0 \$20,000 0 \$50,000 0 \$125,000	\$10,000 10,000 45,000 275,000 275,000 200,000 120,000 15,000 641,250 95,000 35,000 75,000 \$5,076,250 \$5,076,250 \$5,076,250	\$10,000 10,000 45,000 0 0 275,000 0 3,500,000 0 200,000 120,000 120,000 15,000 0 35,500 0 35,500 0 5,000 0 35,000 0 35,000 0 30,000 0 10
8306 8306 8306 8306 8306 8306 8306 8306	203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 220 221 232 242 225 226 299	F F F F F F F F F F F F F F F F F F F	Power & Fuel Compil Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logqing & Perforation Svcs Cag Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugqing Completion Riq  SUBTOTAL CONTINGENCY (%) SUB-TOTAL INTANGIBLE COMPLETION COSTS SUB-TOTAL INTANGIBLE COMPLETION COSTS  TANGIBLE DRILLING COSTS  DESCRIPTION Drive Pipe Conductor Casing Surface Casing Intermediate Casing Intermediate Casing Intermediate Casing	\$	late Units	\$2,802,410 DRYHOLE 0 \$20,000 0 \$50,000	\$10,000 10,000 45,000 275,000 275,000 200,000 120,000 15,000 641,250 95,000 35,000 75,000 \$5,076,250 \$5,076,250 \$5,076,250	\$10,000 10,000 45,000 0 0 275,000 0 3,500,000 200,000 120,000 120,000 15,000 641,250 641,250 75,000 30,000 \$\$5,076,250 \$\$7,878,8660
8306 8306 8306 8306 8306 8306 8306 8306	203 204 205 205 206 207 210 211 212 213 214 215 217 218 219 220 221 222 223 224 225 226 227 228 229 230 240 250 260 27 27 27 28 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	F F F F F F F F F F F F F F F F F F F	Power & Fuel Compi Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logqing & Perforation Svcs Cag Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugqing Completion Riq  SUBTOTAL CONTINGENCY (%) 0.00% SUB-TOTAL INTANGIBLE COMPLETION COSTS SUB-TOTAL INTANGIBLE COSTS  TANGIBLE DRILLING COSTS  DESCRIPTION Drive Pipe Conductor Casing Surface Casing Intermediate Casing Intermediate Casing Sunds	\$ \$ \$	late Units	\$2,802,410  DRYHOLE 0 \$20,000 0 \$50,000 0 \$125,000	\$10,000 10,000 45,000 275,000 275,000 200,000 120,000 15,000 641,250 95,000 35,000 35,000 \$5,076,250 \$5,076,250 \$5,076,250	\$10,000 10,000 45,000 0 0 275,000 0 3,500,000 0 200,000 120,000 120,000 15,000 0 35,500 0 35,500 0 5,000 0 35,000 0 35,000 0 30,000 0 10
8306 8306 8306 8306 8306 8306 8306 8306	203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 220 221 222 222 222 222 222 222 223 233 300 300	F F F F F F F F F F F F F F F F F F F	Power & Fuel Compil Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logqing & Perforation Svcs Cag Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugqing Completion Riq  SUBTOTAL CONTINGENCY (%) 0.00% SUB-TOTAL INTANGIBLE COMPLETION COSTS  SUB-TOTAL INTANGIBLE COMPLETION COSTS  DESCRIPTION Drive Pipe Conductor Casing Surface Casing Intermediate Casing Intermediate Casing Sub Sub Sub Fit Equt Centralizers Etc Casinghead Drilling Spool Sub Surface Equipment	\$ \$ \$	late Units	\$2,802,410 DRYHOLE 0 \$20,000 0 \$50,000 0 \$125,000 0 \$150,000	\$10,000 10,000 45,000 275,000 275,000 200,000 120,000 15,000 641,250 95,000 35,000 35,000 \$5,076,250 \$5,076,250 \$5,076,250	\$10,000 10,000 45,000 0 275,000 0 3,500,000 200,000 120,000 15,000 641,250 641,250 75,000 30,000 \$\$5,076,256 \$\$7,878,666
8306 8306 8306 8306 8306 8306 8306 8306	203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 220 221 222 222 222 222 222 222 223 233 300 300	F F F F F F F F F F F F F F F F F F F	Power & Fuel Compi Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logqing & Perforation Svcs Cag Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugqing Completion Riq  SUBTOTAL CONTINGENCY (%) 0.00% SUB-TOTAL INTANGIBLE COMPLETION COSTS SUB-TOTAL INTANGIBLE COSTS  TANGIBLE DRILLING COSTS  DESCRIPTION Drive Pipe Conductor Casing Surface Casing Intermediate Casing Intermediate Casing Sunds	\$ \$ \$	late Units	\$2,802,410 DRYHOLE 0 \$20,000 0 \$50,000 0 \$125,000 0 \$150,000	\$10,000 10,000 45,000 275,000 275,000 200,000 120,000 15,000 641,250 95,000 35,000 35,000 \$5,076,250 \$5,076,250 \$5,076,250	\$10,000 10,000 45,000 0 0 275,000 0 3,500,000 0 200,000 120,000 150,000 35,000 35,000 35,000 35,000 5,000 \$\$5,076,250 \$\$7,878,666

	ст.	DESCRIPTION			late (	Inits	· T	COMPLETION	TOTAL WELL COST
109		Production Casing	-	\$	tate (	0			THE RESERVE THE PARTY NAMED IN COLUMN TWO IS NOT
309		Tubing		\$		0		340,000 40,000	\$340,000 40,000
309		Subs Flt Eqpt Centralizers Etc						40,000	40,000
309	404	Sub Surface Equipment						30,000	30,000
309		Xmas Tree Upper Section						60,000	60,00
309	406	Outside Operated Other							The Property of the Parket of
		SUB-TOTAL TANGIBLE COMPLETION CO	ISTS					\$470,000	\$470,000
		SUB-TOTAL TANGIBLE COSTS					\$405,000	\$470,000	\$875,000
		SUB-TOTAL INTANGIBLE & TANGIBLE C					\$3,207,410	\$5,546,250	\$8,753,660
		PRODUCTION EQUIPME	NT COSTS						
								COMPLETION	TOTAL WELL COST
311	501	Artificial Lift Equipment						\$15,000	\$15,00
311	502	Prime Mover Electric Gas							W7 0.82 ( ) ( ) ( )
311	503	Sales Gathering Line							
311	504	Separation Equipment						50,000	50,00
311	505 506	Oil Treating Heating Equipment Gas Treating Dehy Equipment							
311	507	Tanks						70,000	70,00
311	508	Meters			***************************************			55,000	55,00
311	509	Electrical Equip Install						20,000	20,00
311	510	Compressor							Programme and the second
311	511	Flowlines						50,000	50,00
311	512	Labor						130,000	130,00
311	513	Trucks Hauling Transportation							h e a subbuild
311	514	Buildings						10.000	20 PRINTED TO 10 PRINTED TO 1
311	515 516	Roads & Locations Manifolds & Headers						10,000 15,000	10,00
3311	517	Chemical Injection System						15,000	200
311	518	Piping & Valves						50,000	50,0
3311	519	Welding						007000	The section beautiful
3311	520	Surface Pumps						5,000	5,0
8311	521	Filters							(大学)。1000年1月1日
B311	522	Outside Operated Other						10.000	2.838.0.717
B311	523	Environmental & Safety Engineering Supervision						10,000	10,00
8311	524 525	Surface Facilities						30,000 15,000	30,00 15,00
0311	323	Surface racincles						13,000	15,00
-		SUB-TOTAL PRODUCTION EQUIPMEN	aT .					\$525,000	\$525,0
	-						62 802 410		
		SUB-TOTAL INTANGIBLE COSTS (PA					\$2,802,410	\$5,076,250	\$7,878,6
		SUB-TOTAL TANGIBLE COSTS (PAG	E 2)				\$405,000	\$470,000	\$875,0
			GRAND TOTAL				\$3,207,410	\$6,071,250	\$9,278,6
			LESS OUTSIDE	INTERESTS			\$3,207,410	\$6,071,250	\$9,278,6
			TOTAL NET COS	STS			\$0	\$0	
		erator: Costs shown on this form are es n will be required to perform the propose		ers should not co	nsider these	e estimates as esta	blishing any limit		
				DATE					
	RED BY			1			GROSS AFE AMOUNT - DRY HOLE		\$3,207,4
REPAR							NET DRYHOLE AFE AMOUNT		
REPAR				DATE			NET ASSET TRANSFERS		
	VED						CASH OUTLAY THIS AFE		
REPAR	VED								
APPROV				DATE			IPREVIOUS AFE'S ISSUED		
PPROV				DATE			PREVIOUS AFE'S ISSUED		
APPROV	VED			DATE			TOTAL CASH OUTLAY		
APPROV	VED								
PPROV	VED	WORKING INTEREST A	OWNER WATER TO A PROPERTY OF THE PARTY OF TH	DATE			TOTAL CASH OUTLAY		2025
PPROV	VED		PPROVAL WORKING INTERES	DATE					DATE
	VED		OWNER WATER TO A PROPERTY OF THE PARTY OF TH	DATE			TOTAL CASH OUTLAY		DATE
PPROV	VED		OWNER WATER TO A PROPERTY OF THE PARTY OF TH	DATE			TOTAL CASH OUTLAY		DATE
PPROV	VED		Owner war was to be a second to the second t	DATE			TOTAL CASH OUTLAY		DATE
PPRO	VED		Owner war was to be a second to the second t	DATE			TOTAL CASH OUTLAY		DATE

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	TER G	avilon Fed Com 603H		BUD YEAR	and the same of th	DATE	July 31, 2018	
AFE NO. FIELD	-	lat Mesa	REGION	Delaware B		SUPPLEMENT NO. LEGAL:	20S 33E	
OPERATO	_	Ascent Energy, LLC	WELL NO.	Delaware	43111	W.I.		
OBJECTIV	_	ard Bone Spring	STATE	NM		MD/TVD	+/-21,998/11,371	
		ECT START DATE: 1Q2019						
DESCRIPT	TION: D	rill a 10,360' lateral in the 3rd Bone Spring	and frac with 62	stages. Assumes	4 string design.			
		INTANGIBLE DRILLING COST	S	Pate	I II-la I	DRYHOLE		TOTAL WELL COST
8305		DESCRIPTION  Location Cleanup & Damages		Rate	Units	\$125,000		\$125,000
8305	102	Rig Move - MIRU, RDMO				\$100,000		100,000
8305 8305		Rig Contractor-Daywork/FT Rig Contractor-Turnkey				\$720,000		720,000
8305		Power & Fuel				\$140,000	10	140,000
8305		Drill Fluids & Chemicals				\$135,000		135,000
8305		Bits, Reamer, Stabilizers Cement & Cementing Services			-	\$110,000 \$215,000		110,000 215,000
8305 8305		Mud Logging				\$82,000		82,000
8305	110	Open Hole Logging				\$30,000		30,000
8305		Csg Crews & Tools			-	\$100,000 \$220,000		100,000
8305 8305		Directional Tools & Service Form Eval - Well Testing DST - Coring, 9	Sampling		-	\$220,000		220,000
8305		Tubular Inspection				\$20,000		20,000
8305		Equipment Rentals				\$340,000		340,000
8305		Contract Labor & Services Wellsite Consultants			+	\$135,000 \$120,000		135,000 120,000
8305		Company Supervison & Labor				\$120,000		0
8305		Transportation				\$20,000		20,000
8305	121	Mud,Cuttings & Water Disposal			-	\$90,000 \$41,950		90,000 41,950
8305	122	Insurance Overhead			-	\$25,000		25,000
8305	124	Water & Water Well				\$55,000		55,000
8305	125	Unanticipated MjrExp (Fishing)						0
8305	126	Legal Outside Operated Other				\$50,000		50,000
8305 8305	128	Permits			1	\$20,000		20,000
8305	129	Environmental & Safety				\$20,000		20,000
8305	130	Plugging						0
8305	199	SUBTOTAL CONTINGENCY (%) 0.00%				\$2,913,950		\$2,913,950
8303	199	SUB-TOTAL INTANGIBLE DRILLING COSTS				\$2,913,950		\$2,913,950
		INTANGIBLE COMPLETION CO	OSTS			4-10-201000		7-7-5-7-5
				CONTRACTOR OF THE PARTY OF THE				
AC	CT.	DESCRIPTION		Rate	Units		COMPLETION	TOTAL WELL COST
8306		DESCRIPTION  Location & Cleanup		Rate	Units		COMPLETION \$10,000	TOTAL WELL COST
8306 8306	201 202	Location & Cleanup Power & Fuel		Rate	Units		\$10,000 10,000	\$10,000 10,000
8306 8306 8306	201 202 203	Location & Cleanup Power & Fuel Compl Fluids & Chemicals		Rate	Units		\$10,000	\$10,000 10,000 45,000
8306 8306 8306 8306	201 202 203 204	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers		Rate	Units		\$10,000 10,000	\$10,000 10,000 45,000 0
8306 8306 8306	201 202 203	Location & Cleanup Power & Fuel Compi Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs		Rate	Units		\$10,000 10,000 45,000	\$10,000 10,000 45,000 0
8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer		Rate	Units		\$10,000 10,000	\$10,000 10,000 45,000 0 0 275,000
8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csq Crews & Tools-Drive Hammer Directional Tools & Svcs		Rate	Units		\$10,000 10,000 45,000 275,000	\$10,000 10,000 45,000 0 275,000
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer		Rate	Units		\$10,000 10,000 45,000	\$10,000 10,000 45,000 0 275,000 0 3,500,000
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csq Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection		Rate	Units		\$10,000 10,000 45,000 275,000	\$10,000 10,000 45,000 0 275,000 0 3,500,000 0
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211	Location & Cleanup Power & Fuel Compi Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals		Rate	Units		\$10,000 10,000 45,000 275,000	\$10,000 10,000 45,000 0 0 275,000 0 0 3,500,000 0 165,000
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 212	Location & Cleanup Power & Fuel Compi Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services		Rate	Units		\$10,000 10,000 45,000 275,000 3,500,000	\$10,000 10,000 45,000 0 0 275,000 0 3,500,000 0 165,000
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211	Location & Cleanup Power & Fuel Compi Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals		Rate	Units		\$10,000 10,000 45,000 275,000	\$10,000 10,000 45,000 0 275,000 0 3,500,000 0 165,000 120,000
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216	Location & Cleanup Power & Fuel Compi Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation		Rate	Units		\$10,000 10,000 45,000 275,000 3,500,000 165,000 20,000	\$10,000 10,000 45,000 0 0 275,000 0 3,500,000 0 165,000 0 120,000 20,000
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 212 213 214 215	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csq Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor		Rate	Units		\$10,000 10,000 45,000 275,000 3,500,000 165,000	\$10,000 10,000 45,000 0 275,000 0 3,500,000 0 165,000 0 120,000 15,000
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218	Location & Cleanup Power & Fuel Compi Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs CSg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead		Rate	Units		\$10,000 10,000 45,000 275,000 3,500,000 165,000 20,000 15,000	\$10,000 10,000 45,000 0 0 275,000 0 3,500,000 0 165,000 0 20,000 15,000 0
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csq Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well		Rate	Units		\$10,000 10,000 45,000 275,000 3,500,000 165,000 20,000	\$10,000 10,000 45,000 0 0 275,000 0 3,500,000 0 155,000 0 20,000 15,000 0 0 641,250
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218	Location & Cleanup Power & Fuel Compi Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs CSg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead		Rate	Units		\$10,000 10,000 45,000 275,000 3,500,000 165,000 120,000 15,000 641,250	\$10,000 10,000 45,000 0 0 275,000 0 3,500,000 0 120,000 15,000 15,000 0 0 0 0 145,000 0 0 0 0 0 0 0 0 0 0 0 0
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 220 221 222 223	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs CSQ Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials		Rate	Units		\$10,000 10,000 45,000 275,000 3,500,000 165,000 20,000 15,000	\$10,000 10,000 45,000 0 0 275,000 0 3,500,000 0 165,000 0 20,000 15,000 0 641,250 95,000
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 229 220 221 220 220 221 222 222	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing		Rate	Units		\$10,000 10,000 45,000 275,000 3,500,000 165,000 120,000 15,000 641,250 95,000 35,000 75,000	\$10,000 10,000 45,000 0 0 0 275,000 0 3,500,000 0 155,000 0 220,000 15,000 0 0 3,500,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 207 208 209 210 211 212 213 214 215 216 217 218 220 221 222 222 223	Location & Cleanup Power & Fuel Compi Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits		Rate	Units		\$10,000 10,000 45,000 275,000 3,500,000 165,000 120,000 15,000 641,250 95,000 35,000	\$10,000 10,000 45,000 0 0 275,000 0 3,500,000 0 165,000 120,000 15,000 0 641,250 0 95,000 35,000 0 0 0 15,000 0 0 15,000 0 0 15,000 0 0 15,000 0 0 15,000 0 0 0 0 0 0 0 0 0 0 0 0
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 229 220 221 220 220 221 222 222	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing		Rate	Units		\$10,000 10,000 45,000 275,000 3,500,000 165,000 120,000 15,000 641,250 95,000 35,000 75,000	\$10,000 10,000 45,000 0 0 275,000 0 3,500,000 0 165,000 0 120,000 20,000 15,000 0 641,250 0 95,000 35,000 75,000 0
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 205 207 208 209 210 211 212 213 214 215 216 219 220 220 221 222 223 224	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs CSQ Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs		Rate	Units		\$10,000 10,000 45,000 275,000 3,500,000 165,000 120,000 15,000 641,250 95,000 35,000 75,000	\$10,000 10,000 45,000 0 0 0 275,000 0 3,500,000 0 155,000 0 220,000 15,000 0 35,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 220 220 221 222 222 223 224 225	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugging Completion Rig					\$10,000 10,000 45,000 275,000 3,500,000 165,000 120,000 15,000 641,250 95,000 35,000 75,000 5,000 30,000	\$10,000 10,000 45,000 0 0 275,000 0 3,500,000 0 165,000 0 120,000 0 641,250 0 95,000 35,000 0 35,000 0 35,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 220 221 222 222 223 224 225 228	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugqing Completion Riq Subtotal					\$10,000 10,000 45,000 275,000 3,500,000 165,000 120,000 15,000 641,250 95,000 35,000 75,000 30,000 \$5,041,250	\$10,000 10,000 10,000 45,000 0 0 275,000 0 3,500,000 0 120,000 120,000 15,000 0 641,250 95,000 0 30,000 0 30,000
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 220 220 221 222 222 223 224 225	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugging Completion Rig					\$10,000 10,000 45,000 275,000 3,500,000 165,000 120,000 15,000 641,250 95,000 75,000 5,000 30,000 \$55,041,250	\$10,000 10,000 45,000 0 0 0 275,000 0 3,500,000 0 155,000 0 20,000 15,000 0 0 641,250 0 5,000 0 35,000 0 35,000 0 55,000 0 0 0 0 0 0 0 0 0 0 0 0 0
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 220 221 222 222 223 224 225 228	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugqing Completion Riq  SUBTOTAL CONTINGENCY (%) 0.00% SUB-TOTAL INTANGIBLE COMPLETION COSTS SUB-TOTAL INTANGIBLE COMPLETION COSTS				\$2,913,950	\$10,000 10,000 45,000 275,000 3,500,000 165,000 120,000 15,000 641,250 95,000 35,000 75,000 30,000 \$5,041,250	\$10,000 10,000 45,000 0 0 275,000 0 3,500,000 0 165,000 0 20,000 15,000 0 641,250 95,000 35,000 0 35,000 0 \$5,041,250
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 220 221 221 222 223 224 225 226 227 228	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugqing Completion Riq  SUBTOTAL CONTINGENCY (%) 0.00% SUB-TOTAL INTANGIBLE COMPLETION COSTS SUB-TOTAL INTANGIBLE CORTS				\$2,913,950	\$10,000 10,000 45,000 275,000 3,500,000 165,000 120,000 15,000 641,250 95,000 35,000 5,000 30,000 \$5,041,250 \$5,041,250	\$10,000 10,000 45,000 0 0 275,000 0 3,500,000 0 165,000 0 20,000 15,000 0 0 641,250 0 95,000 35,000 0 75,000
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 227 220 221 222 223 224 225 228	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugqing Completion Riq Subtotal Intransgible Completion Costs Sub-Total Intransgible Costs TANGIBLE DRILLING COS DESCRIPTION				\$2,913,950 DRYHOLE	\$10,000 10,000 45,000 275,000 3,500,000 165,000 120,000 15,000 641,250 95,000 35,000 5,000 30,000 \$5,041,250 \$5,041,250	\$10,000 10,000 45,000 0 0 275,000 0 3,500,000 0 165,000 0 20,000 15,000 0 641,250 95,000 35,000 0 35,000 0 \$\$5,041,250
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 205 207 208 209 210 211 212 213 214 215 216 217 220 220 221 222 223 224 225 226 229 299 299	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugqiinq Completion Riq  SUBTOTAL CONTINGENCY (%) SUB-TOTAL INTANGIBLE COMPLETION COSTS SUB-TOTAL INTANGIBLE COMPLETION COSTS SUB-TOTAL INTANGIBLE COMPLETION COSTS DESCRIPTION Drive Pipe Conductor Casing		\$ Rate \$	Units	DRYHOLE \$20,000	\$10,000 10,000 45,000 275,000 3,500,000 165,000 120,000 15,000 641,250 95,000 35,000 75,000 5,000 \$5,041,250 \$5,041,250 \$5,041,250	\$10,000 10,000 10,000 45,000 0 0 275,000 0 0 3,500,000 0 120,000 15,000 0 20,000 15,000 0 35,000 0 0 35,000 0 \$5,000 0 0 \$5,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 212 213 214 217 216 219 220 221 222 223 224 225 226 227 228 299	Location & Cleanup Power & Fuel Compi Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Environmental & Safety Costs Plugqing Completion Riq  Subtotal Subtotal Intransible Completion Costs Sub-Total Intransible Costs TANGIBLE DRILLING COS Description Drive Pipe Conductor Casing Surface Casing			Units	DRYHOLE \$20,000 \$50,000	\$10,000 10,000 45,000 275,000 3,500,000 165,000 120,000 15,000 641,250 95,000 35,000 75,000 30,000 \$5,041,250 \$5,041,250 \$5,041,250	\$10,000 10,000 10,000 45,000 0 0 275,000 0 3,500,000 0 165,000 0 20,000 15,000 0 641,250 95,000 30,000 0 \$5,041,250 \$7,955,200
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 205 207 208 209 210 211 212 213 214 215 216 217 220 220 221 222 223 224 225 226 229 299 299	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugging Completion Riq  SUBTOTAL INTANGIBLE COMPLETION COSTS SUB-TOTAL INTANGIBLE COMPLETION COSTS SUB-TOTAL INTANGIBLE COMPLETION COSTS TANGIBLE DRILLING COS DESCRIPTION Drive Pipe Conductor Casing Surface Casing Intermediate Casing		Rate \$ - \$ - \$ 5 - \$	Units 0 0 0 0 0	DRYHOLE \$20,000 \$50,000 \$125,000	\$10,000 10,000 45,000 275,000 3,500,000 165,000 120,000 15,000 641,250 95,000 35,000 75,000 30,000 \$5,041,250 \$5,041,250 \$5,041,250	\$10,000 10,000 45,000 0 0 275,000 0 0 3,500,000 0 165,000 0 120,000 15,000 0 35,000 0 35,000 0 35,000 0 35,000 0 35,000 0 35,000 0 35,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 212 213 214 217 216 217 220 220 221 222 223 224 225 226 227 228 299	Location & Cleanup Power & Fuel Compi Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Cog Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Environmental & Safety Costs Plugqing Completion Riq  SubTotal Intangible Completion Costs Sub-Total Intangible Completion Cost Sub-Total Intangible Costs TANGIBLE DRILLING COS Description Drive Pipe Conductor Casing Surface Casing Intermediate Casing Intermediate Casing Subs Fit Egpt Centralizers Etc			Units	DRYHOLE \$20,000 \$50,000	\$10,000 10,000 45,000 275,000 3,500,000 165,000 120,000 15,000 641,250 95,000 35,000 75,000 30,000 \$5,041,250 \$5,041,250 \$5,041,250	\$10,000 10,000 10,000 45,000 0 0 275,000 0 3,500,000 0 165,000 0 20,000 15,000 0 641,250 95,000 30,000 0 \$5,041,250 \$7,955,200
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 213 214 215 216 217 218 229 220 221 222 223 224 225 226 227 228	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugging Completion Riq  SUBTOTAL INTANGIBLE COMPLETION COSTS SUB-TOTAL INTANGIBLE COMPLETION COSTS SUB-TOTAL INTANGIBLE COMPLETION COSTS SUB-TOTAL INTANGIBLE COSTS TANGIBLE DRILLING COS DESCRIPTION Drive Pipe Conductor Casing Intermediate Casing Intermediate Casing Intermediate Casing Subs Fit Eqpt Centralizers Etc Casinghead Drilling Spool		Rate \$ - \$ - \$ 5 - \$	Units 0 0 0 0 0	DRYHOLE \$20,000 \$50,000 \$125,000	\$10,000 10,000 45,000 275,000 3,500,000 165,000 120,000 15,000 641,250 95,000 35,000 75,000 30,000 \$5,041,250 \$5,041,250 \$5,041,250	\$10,000 10,000 10,000 45,000 0 275,000 0 3,500,000 0 165,000 120,000 15,000 0 641,250 0 35,000 0 30,000 0 75,000 5,000 0 \$\$5,041,250 \$\$7,955,200  TOTAL WELL COST \$20,000 125,000 125,000 125,000 125,000 125,000 125,000 125,000 125,000 125,000 125,000 125,000 125,000 125,000 125,000
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 212 213 214 217 216 217 220 220 221 222 223 224 225 226 227 228 299	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugging Completion Riq  Subtotal Contingency (%) 0.00% Sub-Total Intangible Completion Costs Sub-Total Intangible Completion Costs Sub-Total Intangible Completion Cost Description Drive Pipe Conductor Casing Surface Casing Intermediate Casing Intermediate Casing Sub Sit Egpt Centralizers Etc Casinghead Drilling Spool Sub Surface Equipment		Rate \$ - \$ - \$ 5 -	Units 0 0 0 0 0	DRYHOLE \$20,000 \$50,000 \$125,000 \$150,000	\$10,000 10,000 45,000 275,000 3,500,000 165,000 120,000 15,000 641,250 95,000 35,000 75,000 30,000 \$5,041,250 \$5,041,250 \$5,041,250	\$10,000 10,000 10,000 45,000 0 0 275,000 0 0 3,500,000 0 120,000 15,000 0 641,250 0 35,000 0 35,000 0 55,041,250 \$7,955,200  TOTAL WELL COST \$20,000 150,000 120,000 150,000 150,000 150,000 150,000 150,000 150,000 150,000 150,000 150,000 150,000 150,000 150,000 150,000 150,000 150,000
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 220 221 222 223 224 225 226 299  CCCT. 301 302 303 306 305 306	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugqing Completion Riq  Subtotal Subtotal Intangible Completion Costs Sub-Total Intangible Completion Cost Sub-Total Intangible Costs  TANGIBLE DRILLING COS  DESCRIPTION Drive Pipe Conductor Casing Intermediate Casing Intermediate Casing Intermediate Casing Intermediate Casing Sub Sufface Equipment		Rate \$ - \$ - \$ 5 -	Units 0 0 0 0 0	DRYHOLE \$20,000 \$50,000 \$125,000 \$150,000	\$10,000 10,000 45,000 275,000 3,500,000 165,000 120,000 15,000 641,250 95,000 35,000 75,000 30,000 \$5,041,250 \$5,041,250 \$5,041,250	\$10,000 10,000 45,000 0 0 275,000 0 3,500,000 0 165,000 0 20,000 15,000 0 35,000 0 0 35,000 0 0 0 100,000 0 0 0 0 0 0 0 0 0 0 0

TOTAL WELL COST	COMPLETION		Units	Rate		DESCRIPTION	ст.	ACC
\$355,000	355,000		0	\$ -		Production Casing		309
43,000	43,000		0	\$ -		Tubing		309
A Carrier C					Etc	Subs Flt Eqpt Centralizers		309
30,000	30,000					Sub Surface Equipment		309
60,000	60,000					Xmas Tree Upper Section		309
0	84		-			Outside Operated Other	406	309
\$488,000	\$488,000				ION COSTS	SUB-TOTAL TANGIBLE COMPLETI		
\$893,000	\$488,000	\$405,000			1014 CO313	SUB-TOTAL TANGIBLE COSTS		
					In a source			
\$8,848,200	\$5,529,250	\$3,318,950			Address of the Contract of the	SUB-TOTAL INTANGIBLE & TANG		
				-	PMENT COSTS	PRODUCTION EQUI		
TOTAL WELL COST \$15,000	COMPLETION \$15,000					Artificial Lift Equipment	501	211
313,000						Prime Mover Electric Gas		311
1 100 Page 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						Sales Gathering Line		311
50,000	50,000					Separation Equipment	504	311
10.00					ment	Oil Treating Heating Equip	505	311
<b>一种的对话是自由的</b>					nent	Gas Treating Dehy Equipm	506	3311
70,000						Tanks	507	3311
55,00						Meters	508	311
20,00						Electrical Equip Install	509	311
50,00	50,000					Compressor	510	3311
	130,000					Flowlines Labor	511	3311
130,00	130,000			-	ation	Trucks Hauling Transporta	513	3311
Trouble State of					2001	Buildings	514	8311
10,00	10,000					Roads & Locations	515	8311
15,00	15,000					Manifolds & Headers	516	8311
THE RESERVE OF THE PARTY OF THE					m	Chemical Injection System	517	8311
50,00	50,000					Piping & Valves	518	8311
4、4.18以350年度11年度11	8					Welding	519	8311
5,00	5,000					Surface Pumps	520	8311
Section of the section of the						Filters	521	8311
10,00	10,000					Outside Operated Other	522	8311
30,00	30,000					Environmental & Safety Engineering Supervision	523 524	8311
15.00	15,000			-		Surface Facilities	525	8311
25/00	23/000					Dollidee Facilities	323	0311
\$525,00	\$525,000				UIPMENT	SUB-TOTAL PRODUCTION EQU		
	\$5,041,250	\$2,913,950				SUB-TOTAL INTANGIBLE COST		
	\$488,000	\$405,000						
						SUB-TOTAL TANGIBLE COSTS		
	\$6,054,250	\$3,318,950			GRAND TOTAL			-
	\$6,054,250	\$3,318,950		S	LESS OUTSIDE INTEREST			
9	\$0	\$0			TOTAL NET COSTS			
		tablishing any limit	hese estimates as	not consider t	are estimates only. Nonoperators should	erator: Costs shown on this form will be required to perform the pr		
\$3,318,9					DATE	will be required to perform the pr		PREPAR
		GROSS AFE AMOUNT - DRY HOLE					NEU DT	ALPAK
		NET DRYHOLE AFE AMOUNT			DATE			
		NET ASSET TRANSFERS			DATE		VED	APPROV
		CASH OUTLAY THIS AFE						
		PREVIOUS AFE'S ISSUED			DATE		VED	APPROV
		TOTAL CASH OUTLAY						
					DATE		VED	APPROV
1 2175				7		WORKING INTERE		
DATE		APPROVED BY		-	WORKING INTEREST	COMPANY		
				+				
				-				
-		APPROVED BY			WORKING INTEREST	COMPANY		

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	TER G	avilon Fed Com 705H		BUD YEAR		DATE	July 31, 2018	
FE NO. IELD	_	at Mesa	REGION	CATEGORY Delaware B		SUPPLEMENT NO. LEGAL:	20S 33E	
PERATO	_	scent Energy, LLC	WELL NO.	Dejaware b	43111	W.I.		
BJECTIV	****	VolfCamp A	STATE	NM		MD/TVD	+/-22,280'/11,653'	
	****	ECT START DATE: 1Q2019					The second secon	
		INTANGIBLE DRILLING COSTS		s. Assumes 4 str	ing design.			3
ACC	r. T	DESCRIPTION		Rate	Units	DRYHOLE		TOTAL WELL COST
8305		ocation Cleanup & Damages		7,212		\$125,000		\$125,000
8305		Rig Move - MIRU, RDMO				\$100,000		100,000 792,000
8305 8305		Rig Contractor-Daywork/FT Rig Contractor-Turnkey			<del> </del>	\$792,000		752,000
8305		Power & Fuel				\$150,000		150,000
8305		Orill Fluids & Chemicals				\$200,000		200,000
8305 8305		Bits, Reamer, Stabilizers Cement & Cementing Services		-	-	\$130,000 \$230,000		130,000
8305		Mud Logging				\$88,000		88,000
8305		Open Hole Logging				\$30,000		30,000
8305 8305		Csg Crews & Tools Directional Tools & Service			-	\$130,000 \$235,000		130,000
8305		Form Eval - Well Testing DST - Coring, Sa	mpling			\$233,000		1
8305	115	Tubular Inspection				\$20,000		20,00
8305		Equipment Rentals				\$350,000		350,00 145,00
8305 8305		Contract Labor & Services Wellsite Consultants			+	\$145,000 \$132,000		132,00
8305	119	Company Supervison & Labor						Property of States
8305		Transportation			-	\$20,000		20,00
8305 8305		Mud,Cuttings & Water Disposal Insurance			+	\$120,000 \$42,431		42,43
8305	123	Overhead				\$25,000		25,00
8305	-	Water & Water Well				\$55,000		55,00
8305 8305	125 126	Unanticipated MjrExp (Fishing) Legal			+	\$50,000		50,00
8305	127	Outside Operated Other						
8305	128	Permits				\$20,000		20,00
8305	129	Environmental & Safety Plugging			+	\$20,000		20,00
0303		SUBTOTAL				\$3,209,431		\$3,209,43
8305	199	CONTINGENCY (%) 0.00%				0		
		SUB-TOTAL INTANGIBLE DRILLING COSTS  INTANGIBLE COMPLETION COST	CTC			\$3,209,431		\$3,209,43
		THE PROPERTY OF THE PERSON CO.						
AC	CT.	DESCRIPTION		Rate	Units	THE PROPERTY OF THE PARTY OF TH	COMPLETION	TOTAL WELL COST
8306	201	Location & Cleanup		Rate	Units	ACTION STREET AND RELIGIOUS AND STREET, AND STREET AND	\$10,000	\$10,00
8306 8306	201	Location & Cleanup Power & Fuel		Rate	Units	579-10-10-14-16-18-0-14-16-16-16-16-16-16-16-16-16-16-16-16-16-	\$10,000 10,000	\$10,00 10,00
8306 8306	201 202 203	Location & Cleanup Power & Fuel Compl Fluids & Chemicals		Rate	Units		\$10,000	\$10,00 10,00
8306 8306	201	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs		Rate	Units	5-0-0-1-0-1-0-1-0-0-1-0-1-0-1-0-1-0-1-0-	\$10,000 10,000 45,000	\$10,00 10,00 45,00
8306 8306 8306 8306 8306 8306	201 202 203 204 205 206	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs		Rate	Units	5-00-0-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	\$10,000 10,000	\$10,00 10,00 45,00
8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer		Rate	Units		\$10,000 10,000 45,000	\$10,00 10,00 45,00
8306 8306 8306 8306 8306 8306	201 202 203 204 205 206	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs		Rate	Units		\$10,000 10,000 45,000	\$10,00 10,00 45,00 275,00
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Loggling & Perforation Svcs Csg Crews & Tools-Orive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Evaluation		Rate	Units		\$10,000 10,000 45,000 275,000	\$10,00 10,00 45,00 275,00
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection	999 AND 100 TO 1	Rate	Units		\$10,000 10,000 45,000 275,000 3,600,000	\$10,00 10,00 45,00 275,00 3,600,00
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 212	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Orive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services		Rate	Units		\$10,000 10,000 45,000 275,000 3,600,000	\$10,00 10,00 45,00 275,00 3,600,0 165,0
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 212 213 214	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant		Rate	Units		\$10,000 10,000 45,000 275,000 3,600,000	\$10,00 10,00 45,00 275,00 3,600,0 165,0
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 212	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Orive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services		Rate	Units		\$10,000 10,000 45,000 275,000 3,600,000 165,000	\$10,00 10,00 45,00 275,00 3,600,0 165,0
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal		Rate	Units		\$10,000 10,000 45,000 275,000 3,600,000	\$10,00 10,00 45,00 275,00 3,600,0 165,0 20,0
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance		Rate	Units		\$10,000 10,000 45,000 275,000 3,600,000 165,000 120,000	\$10,00 10,00 45,00 275,00 3,600,0 165,0 20,0
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal		Rate	Units		\$10,000 10,000 45,000 275,000 3,600,000 165,000 120,000	\$10,00 10,00 45,00 275,00 3,600,00 165,00 120,0 20,0 15,0
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 220	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing		Rate	Units		\$10,000 10,000 45,000 275,000 3,600,000 165,000 120,000 15,000 641,250	\$10,00 10,00 45,00 275,00 3,600,00 165,00 20,0 15,0
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services		Rate	Units		\$10,000 10,000 45,000 275,000 3,600,000 165,000 20,000 15,000 641,250	\$10,00 10,00 45,00 275,00 3,600,00 165,00 120,0 15,0 641,2
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 220	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing		Rate	Units		\$10,000 10,000 45,000 275,000 3,600,000 165,000 20,000 15,000 641,250 95,000 35,000	\$10,00 10,00 45,00 275,00 3,600,00 165,00 20,0 15,0 641,2 95,0 35,0
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 221 222 221 222 223	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits		Rate	Units		\$10,000 10,000 45,000 275,000 3,600,000 165,000 20,000 15,000 641,250	\$10,00 10,00 45,00 275,00 3,600,0 165,0 20,0 15,0 641,2 95,0 35,0 75,0
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 220 221 222 223 224 225 226 209 209 210 211 212 213 214 215 216 217 217 217 218 218 218 218 218 218 218 218 218 218	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coll Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs		Rate	Units		\$10,000 10,000 45,000 275,000 3,600,000 165,000 120,000 15,000 641,250 95,000 35,000 75,000	\$10,00 10,00 45,00 275,00 3,600,0 165,0 20,0 15,0 641,2 95,0 35,0 75,0
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 221 222 221 222 223	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits		Rate	Units		\$10,000 10,000 45,000 275,000 3,600,000 165,000 120,000 15,000 641,250 95,000 35,000 75,000 5,000	\$10,00 10,00 45,00 275,00 3,600,00 165,0 20,0 15,0 641,2 95,0 35,0 75,0
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 218 219 220 221 221 222 222 223 224 225	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugging Completion Rig		Rate	Units		\$10,000 10,000 45,000 275,000 3,600,000 165,000 120,000 15,000 641,250 95,000 35,000 75,000 5,000	\$10,00 10,00 45,00 275,00 3,600,00 165,00 20,0 15,0 641,2 95,0 35,0 75,0 5,0
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 220 221 222 223 224 225 226	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugging Completion Rig Subtotal		Rate	Units		\$10,000 10,000 45,000 275,000 275,000 3,600,000 165,000 120,000 15,000 641,250 95,000 35,000 5,000 30,000 \$5,141,250	\$10,00 10,00 45,00 275,00 3,600,00 165,00 20,0 15,0 641,2 95,0 35,0 75,0 30,0 \$5,141,2
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 218 219 220 221 221 222 222 223 224 225	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coll Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugging Completion Rig  SUBTOTAL CONTINGENCY (%) 0.00%		Rate	Units		\$10,000 10,000 45,000 275,000 3,600,000 165,000 120,000 15,000 641,250 95,000 35,000 75,000 30,000 55,141,250	\$10,00 10,00 45,00 275,00 3,600,00 165,0 20,0 15,0 641,2 95,0 35,0 75,0 30,0 \$5,141,2
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 220 221 222 223 224 225 226	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugging Completion Rig Subtotal		Rate	Units	\$3,209,431	\$10,000 10,000 45,000 275,000 3,600,000 165,000 120,000 15,000 641,250 95,000 35,000 75,000 5,000 \$5,141,250 \$5,141,250	\$10,00 10,00 45,00 275,00 3,600,00 165,0 120,0 20,0 15,0 641,2 95,0 75,0 5,0 30,0 \$5,141,2
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 220 221 222 223 224 225 226	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugging Completion Rig  SUBTOTAL CONTINGENCY (%) 0.00% SUB-TOTAL INTANGIBLE COMPLETION COSTS	S	Rate	Units	\$3,209,431	\$10,000 10,000 45,000 275,000 3,600,000 165,000 120,000 15,000 641,250 95,000 35,000 75,000 30,000 55,141,250	\$10,00 10,00 45,00 3,600,00 165,00 120,00 20,00 15,00 641,2 95,0 35,0 75,0 30,0 \$5,141,2
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 220 221 222 223 224 225 226	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugging Completion Rig  SUBTOTAL CONTINGENCY (%) 0.00% SUB-TOTAL INTANGIBLE COMPLETION COSTS	S	Rate	Units	\$3,209,431 DRYHOLE	\$10,000 10,000 45,000 275,000 3,600,000 165,000 120,000 15,000 641,250 95,000 35,000 75,000 5,000 \$5,141,250 \$5,141,250	\$10,00 10,00 45,00 275,00 3,600,00 165,00 20,00 15,00 641,2 95,0 35,0 75,0 30,0 \$5,141,2 \$5,141,2 \$8,350,6
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 221 222 222 222 223 224 227 228	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coll Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugging Completion Rig  SUBTOTAL CONTINGENCY (%) 0.00% SUB-TOTAL INTANGIBLE COMPLETION COSTS SUB-TOTAL INTANGIBLE CORFLETION COSTS	S				\$10,000 10,000 45,000 275,000 3,600,000 165,000 120,000 15,000 641,250 95,000 35,000 75,000 5,000 \$5,141,250 \$5,141,250	\$10,00 10,00 10,00 45,00 275,00 3,600,00 165,00 120,0 20,0 15,0 35,0 35,0 35,0 35,0 35,141,2 \$5,141,2 \$8,350,6
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 205 206 207 208 210 211 211 213 214 215 218 219 220 221 222 224 222 224 227 228 299	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Gontract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajiExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugging Completion Rig  SubTotal Intangible Completion Costs Sub-Total Intangible Completion Costs Sub-Total Intangible Costs TANGIBLE DRILLING COST DESCRIPTION Drive Pipe Conductor Casing Surface Casing	S	Rate	Units	DRYHOLE \$20,000 \$50,000	\$10,000 10,000 45,000 275,000 3,600,000 165,000 120,000 15,000 641,250 95,000 35,000 75,000 5,000 \$5,141,250 \$5,141,250	\$10,00 10,00 10,00 45,00 275,00 3,600,00 165,00 120,0 15,0 641,2 95,0 35,0 75,0 30,0 \$5,141,2 \$8,350,6
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 219 220 221 222 225 226 299 299	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugging Completion Rig  SUBTOTAL COMTINGENCY (%) SUB-TOTAL INTANGIBLE COMPLETION COSTS SUB-TOTAL INTANGIBLE COSTS  TANGIBLE DRILLING COST  DESCRIPTION Drive Pipe Conductor Casing Surface Casing Intermediate Casing	S	Rate S - S - S - S -	Units 0 0 0 0	DRYHOLE \$20,000 \$50,000 \$125,000	\$10,000 10,000 45,000 275,000 3,600,000 165,000 120,000 15,000 641,250 95,000 35,000 75,000 5,000 \$5,141,250 \$5,141,250	\$10,00 10,00 10,00 45,00 275,00 3,600,00 165,00 120,00 15,00 641,2 95,0,0 35,0,0 75,0,0 \$5,141,2 \$\$5,141,2 \$\$8,350,6  TOTAL WELL COST \$20,0 50,0
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 205 206 207 208 210 211 211 213 214 215 218 219 220 221 222 224 222 224 227 228 299	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugging Completion Rig  SUBTOTAL CONTINGENCY (%) 0.00% SUB-TOTAL INTANGIBLE COMPLETION COSTS SUB-TOTAL INTANGIBLE COMPLETION COSTS  DESCRIPTION Drive Pipe Conductor Casing Intermediate Casing Intermediate Casing Intermediate Casing Intermediate Casing Intermediate Casing	S	Rate	Units	DRYHOLE \$20,000 \$50,000	\$10,000 10,000 45,000 275,000 3,600,000 165,000 120,000 15,000 641,250 95,000 35,000 75,000 5,000 \$5,141,250 \$5,141,250	\$10,00 10,00 10,00 45,00 275,00 3,600,00 165,00 120,00 15,00 95,00 35,00 35,00 \$5,141,2 \$5,141,2 \$8,350,61  TOTAL WELL COST \$20,0 125,00
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 211 211 215 216 217 218 220 221 233 224 225 226 229 299 299	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugging Completion Rig  SubTotal Completion Rig  Sub-Total Intrangible Completion Costs Sub-Total Intrangible Costs  TANGIBLE DRILLING COST  DESCRIPTION Drive Pipe Conductor Casing Surface Casing Intermediate Casing Intermediate Casing Subs Tit Egpt Centralizers Etc Casinghead Drilling Spool	S	Rate S - S - S - S -	Units 0 0 0 0	DRYHOLE \$20,000 \$50,000 \$125,000 \$330,000	\$10,000 10,000 45,000 275,000 3,600,000 165,000 120,000 15,000 641,250 95,000 35,000 75,000 5,000 \$5,141,250 \$5,141,250	\$10,00 10,00 10,00 45,00 275,00 3,600,00 165,00 120,00 15,00 35,00 35,00 35,00 \$5,141,2 \$\$8,350,61  TOTAL WELL COST \$20,0 330,0 \$30,
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 205 206 207 208 210 211 211 211 215 216 212 221 222 223 224 227 228 299 299  CCCT. 301 302 303 304 305 306	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugging Completion Rig  SUBTOTAL CONTINGENCY (%) 0.00% SUB-TOTAL INTANGIBLE COMPLETION COSTS SUB-TOTAL INTANGIBLE COSTS  TANGIBLE DRILLING COST  DESCRIPTION Drive Pipe Conductor Casing Surface Casing Intermediate Casing Intermediate Casing Sub Sufface Equipment	SS S	Rate S - S - S - S -	Units 0 0 0 0	DRYHOLE \$20,000 \$50,000 \$125,000	\$10,000 10,000 45,000 275,000 3,600,000 165,000 120,000 15,000 641,250 95,000 35,000 75,000 5,000 \$5,141,250 \$5,141,250	\$10,00 10,00 10,00 45,00 275,00 3,600,00 165,00 120,00 15,00 35,00 35,00 35,00 \$5,141,2 \$\$8,350,60  TOTAL WELL COST \$20,00 125,00 330,00 \$30,0
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 211 211 215 216 217 218 220 221 233 224 225 226 229 299 299	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugging Completion Rig  SubTotal Completion Rig  Sub-Total Intrangible Completion Costs Sub-Total Intrangible Costs  TANGIBLE DRILLING COST  DESCRIPTION Drive Pipe Conductor Casing Surface Casing Intermediate Casing Intermediate Casing Subs Tit Egpt Centralizers Etc Casinghead Drilling Spool	5	Rate S - S - S - S -	Units 0 0 0 0	DRYHOLE \$20,000 \$50,000 \$125,000 \$330,000	\$10,000 10,000 45,000 275,000 3,600,000 165,000 120,000 15,000 641,250 95,000 35,000 75,000 5,000 \$5,141,250 \$5,141,250	\$10,00 10,00 45,00 275,00 3,600,00 165,00 120,00 15,00 641,2: 95,00 35,00 75,00 30,00 \$5,141,2 \$5,141,2 \$8,350,60

ACCT.	TANGIBLE COMPLE		Rate	e Units	T .	COMPLETION	TOTAL WELL COST
309 401	Production Casing		\$	- 0			\$360,000
309 401	Tubing		\$	- 0		360,000 45,000 F	45,000
309 403	Subs Flt Egpt Centralizers	ēt <i>c</i>				43,000	43,000
309 404	Sub Surface Equipment					30,000	30,000
309 405	Xmas Tree Upper Section					60,000	60,000
309 406	Outside Operated Other					00/000	(
	SUB-TOTAL TANGIBLE COMPLETT	ON COSTS				\$495,000	\$495,000
	SUB-TOTAL TANGIBLE COSTS				\$585,000	\$495,000	\$1,080,000
		IN COCTO					
	SUB-TOTAL INTANGIBLE & TANG				\$3,794,431	\$5,636,250	\$9,430,681
	PRODUCTION EQUI	PMENT COSTS					
					3	COMPLETION	TOTAL WELL COST
311 501	Artificial Lift Equipment					\$15,000	\$15,00
311 502	Prime Mover Electric Gas						1070
311 503	Sales Gathering Line						Self-Marine Co.
311 504	Separation Equipment					50,000	50,00
311 505	Oil Treating Heating Equip						the September of
311 506	Gas Treating Dehy Equipm	ent				70.000	70.00
311 507	Tanks					70,000 55,000	70,00 55,00
3311 508 3311 509	Meters Electrical Equip Install					20,000	20,00
3311 509	Compressor					20,000	The second secon
3311 510	Flowlines					50,000	50,00
3311 511	Labor					130,000	130,00
3311 512 3311 513	Trucks Hauling Transporta	tion				130,000	130,00
8311 514	Buildings	tion					was to be conkern.
8311 515	Roads & Locations					10,000	10,00
8311 516	Manifolds & Headers					15,000	15,00
8311 517	Chemical Injection System	1				13,000	Ann a
8311 518	Piping & Valves					50,000	50,00
8311 519	Welding						STATE OF STREET
8311 520	Surface Pumps					5,000	5,00
8311 521	Filters						THE PROPERTY.
8311 522	Outside Operated Other						
8311 523	Environmental & Safety					10,000	**10,00
8311 524	Engineering Supervision					30,000	30,00
8311 525	Surface Facilities					15,000	15,00
	SUB-TOTAL PRODUCTION EQU	IPMENT				\$525,000	\$525,0
	SUB-TOTAL INTANGIBLE COST	S (PAGE 1)			\$3,209,431	\$5,141,250	\$8,350,6
	SUB-TOTAL TANGIBLE COSTS				\$585,000	\$495,000	\$1,080,0
	SOB-TOTAL TANGIBLE COSTS						
		GRAND TOTA	\L		\$3,794,431	\$6,161,250	\$9,955,6
		LESS OUTSIG	DE INTERESTS		\$3,794,431	\$6,161,250	\$9,955,6
		TOTAL NET C	OSTS		\$0	\$0	
	n will be required to perform the pi			der these estimates as esta	ablishing any limit		
PREPARED BY			DATE		GROSS AFE AMOUNT - DRY HOLE		\$3,794,4
							4-7/
			DATE		NET DRYHOLE AFE AMOUNT		
APPROVED			OR IL		NET ASSET TRANSFERS		
					CASH OUTLAY THIS AFE		
APPROVED			DATE		PREVIOUS AFE'S ISSUED		
					TOTAL CASH OUTLAY		
			DATE		70776 010710070		
APPROVED							
APPROVED	WORKING INTERE						
APPROVED	WORKING INTERE	ST APPROVAL WORKING INTERE	ST		APPROVED BY		DATE
APPROVED	THE RESERVE OF THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER.		ST		APPROVED BY		DATE
APPROVED	THE RESERVE OF THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER.		ST		APPROVED BY		DATE
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APPROVED	THE RESERVE OF THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER.		ST		APPROVED BY		DATE
APPROVED	THE RESERVE OF THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER.		ST		APPROVED BY		DATE
APPROVED	THE RESERVE OF THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER.		SST		APPROVED BY		DATE
PPROVFD	THE RESERVE OF THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER.		EST		APPROVED BY		DATE

COST CEI	NTER G	Savilon Fed Com 706H	BUD YEAR	2018 D&C	DATE SUPPLEMENT NO.	July 31, 2018 205 33E	
FIELD	-	Hat Mesa REGION	Delaware	Management	LEGAL:		
OPERATO	_	Ascent Energy, LLC WELL NO.			W.1.		
OBJECTIV	-	WOIFCamp XY STATE DECT START DATE: 1Q2019	NM		MD/TVD	+/-22,121'/11,494'	
		rill a 10,360' lateral in the Wolfcamp XY and frac with 62 s	tages. Assumes 4	string design.		**************************************	
				*****			
ACC	· T	INTANGIBLE DRILLING COSTS  DESCRIPTION	Rate	Units	DRYHOLE		TOTAL WELL COST
8305		Location Cleanup & Damages	Rate	Onits	\$125,000	1	\$125,000
8305		Rig Move - MIRU, RDMO			\$100,000		100,000
8305		Rig Contractor-Daywork/FT Rig Contractor-Turnkey		<del></del>	\$768,000		768,000
8305 8305		Power & Fuel			\$145,000		145,000
8305		Drill Fluids & Chemicals			\$190,000		190,000
8305		Bits, Reamer, Stabilizers			\$125,000		125,000 225,000
8305 8305		Cement & Cementing Services Mud Logging		<del></del>	\$225,000 \$86,000		86,000
8305		Open Hole Logging			\$30,000		30,000
8305		Csg Crews & Tools			\$125,000		125,000
8305		Directional Tools & Service Form Eval - Well Testing DST - Coring, Sampling			\$230,000		230,000
8305		Tubular Inspection			\$20,000		20,000
8305	116	Equipment Rentals			\$345,000		345,000
8305 8305	117	Contract Labor & Services Wellsite Consultants		+	\$140,000 \$128,000		140,000
8305	119	Company Supervison & Labor			\$120,000		128,000
8305	120	Transportation			\$20,000	/	20,000
8305	121	Mud, Cuttings & Water Disposal			\$115,000		115,000
8305 8305	122	Insurance Overhead			\$42,142 \$25,000		42,142 25,000
8305	124	Water & Water Well			\$55,000		55,000
8305	125	Unanticipated MjrExp (Fishing)		1	450.000		50,000
8305 8305	126	Legal Outside Operated Other			\$50,000		50,000
8305	128	Permits			\$20,000		20,000
8305	129	Environmental & Safety			\$20,000		20,000
8305	130	Plugging SUBTOTAL			\$3,129,142		\$3,129,142
8305	199	CONTINGENCY (%) 0.00%			0		0
		SUB-TOTAL INTANGIBLE DRILLING COSTS			\$3,129,142		\$3,129,142
passessesses		INTANGIBLE COMPLETION COSTS	- communication and the second				The state of the s
AC	CT.	DESCRIPTION	0-1-				
			Rate	Units		COMPLETION	TOTAL WELL COST
8306	201	Location & Cleanup	Kate	Units		\$10,000	\$10,000
8306	201	Location & Cleanup Power & Fuel	Kate	Units		\$10,000 10,000	\$10,000 10,000
	201	Location & Cleanup	Kate	Units		\$10,000	\$10,000 10,000 45,000 0
8306 8306 8306 8306	201 202 203 204 205	Location & Cleanup Power & Fuel Compi Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs	Rate	Units		\$10,000 10,000 45,000	\$10,000 10,000 45,000 0
8306 8306 8306 8306 8306	201 202 203 204 205 206	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs	Kate	Units		\$10,000 10,000	\$10,000 10,000 45,000 0 0 275,000
8306 8306 8306 8306	201 202 203 204 205	Location & Cleanup Power & Fuel Compi Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs	Kate	Units		\$10,000 10,000 45,000	\$10,000 10,000 45,000 0
8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Orive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac	Rate	Units		\$10,000 10,000 45,000	\$10,000 10,000 45,000 0 275,000 0 3,600,000
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Evaluation	Rate	Units		\$10,000 10,000 45,000 275,000	\$10,000 10,000 45,000 0 275,000 0 3,600,000
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals	Rate	Units		\$10,000 10,000 45,000 275,000	\$10,000 10,000 45,000 0 0 275,000 0 3,600,000 0 0 165,000
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 212 213	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Orive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services	Rate	Units		\$10,000 10,000 45,000 275,000 3,600,000	\$10,000 10,000 45,000 0 275,000 0 3,600,000 0 165,000
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 212 213 214	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant	Käte	Units		\$10,000 10,000 45,000 275,000 3,600,000	\$10,000 10,000 45,000 0 275,000 0 3,600,000 0 165,000
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Orive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation	Käte	Units		\$10,000 10,000 45,000 275,000 3,600,000 165,000 20,000	\$10,000 10,000 45,000 0 275,000 0 3,600,000 0 115,000 120,000 0 220,000
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal	Käte	Units		\$10,000 10,000 45,000 275,000 3,600,000 165,000	\$10,000 10,000 45,000 0 275,000 0 3,600,000 0 165,000 120,000 0 20,000 15,000
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance	Käte	Units		\$10,000 10,000 45,000 275,000 3,600,000 165,000 20,000	\$10,000 10,000 45,000 0 0 275,000 0 3,600,000 0 115,000 120,000 15,000
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well	Käte	Units		\$10,000 10,000 45,000 275,000 3,600,000 165,000 20,000	\$10,000 10,000 45,000 0 0 275,000 0 3,600,000 0 165,000 120,000 20,000 15,000
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 220	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing	Käte	Units		\$10,000 10,000 45,000 275,000 3,600,000 165,000 120,000 20,000 15,000	\$10,000 10,000 45,000 0 0 0 275,000 0 0 3,600,000 0 120,000 120,000 15,000 0 0 0 140,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Orive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Conil Tubing Services	Käte	Units		\$10,000 10,000 45,000 275,000 3,600,000 165,000 120,000 20,000 15,000 641,250	\$10,000 10,000 10,000 45,000 0 275,000 0 3,600,000 0 165,000 120,000 15,000 0 15,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 205 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 221 222	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing	Käte	Units		\$10,000 10,000 45,000 275,000 3,600,000 165,000 120,000 15,000 641,250 95,000 35,000 75,000	\$10,000 10,000 45,000 0 0 275,000 0 3,600,000 0 120,000 15,000 0 641,250 95,000 350,000 350,000
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 220 221 221 222 221 222 223 224 225 227 227 228	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits	Käte	Units		\$10,000 10,000 45,000 275,000 3,600,000 165,000 120,000 15,000 641,250 95,000 35,000	\$10,000 10,000 10,000 45,000 0 275,000 0 3,600,000 0 165,000 120,000 15,000 0 0 0 15,000 0 15,000 0 15,000 0 15,000 0 15,000 0 15,000 0 15,000 0 15,000 0 15,000 0 15,000 0 15,000 0 15,000 0 15,000
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 205 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 221 222	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing	Käte	Units		\$10,000 10,000 45,000 275,000 3,600,000 165,000 120,000 15,000 641,250 95,000 35,000 75,000	\$10,000 10,000 45,000 0 0 275,000 0 3,600,000 0 165,000 120,000 15,000 0 641,255 0 95,000 35,000 0 5,000
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 220 220 221 222 223 224 225 226 227 227 227 228 229 229 249 249 249 249 249 259 269 269 269 269 279 279 279 279 279 279 279 279 279 27	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs	Käte	Units		\$10,000 10,000 45,000 275,000 3,600,000 165,000 120,000 15,000 641,250 95,000 35,000 75,000	\$10,000 10,000 10,000 45,000 0 275,000 0 3,600,000 0 165,000 120,000 15,000 0 0 0 15,000 0 15,000 0 15,000 0 15,000 0 15,000 0 15,000 0 15,000 0 15,000 0 15,000 0 15,000 0 15,000 0 15,000 0 15,000
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 213 214 215 216 217 228 220 221 222 222 223 224 225	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugging Completion Rig	Käte	Units		\$10,000 10,000 45,000 275,000 3,600,000 165,000 120,000 15,000 641,250 95,000 35,000 75,000 5,000	\$10,000 10,000 45,000 0 0 275,000 0 0 3,600,000 0 165,000 120,000 15,000 0 641,250 0 95,000 35,000 0 0 30,000 0 0 0 0 0 0 0 0 0 0 0 0
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 213 214 215 216 217 228 220 221 222 222 223 224 225	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugging	Käte	Units		\$10,000 10,000 45,000 275,000 3,600,000 165,000 120,000 15,000 641,250 95,000 35,000 75,000 5,000	\$10,000 10,000 45,000 0 0 275,000 0 3,600,000 0 110,000 120,000 15,000 0 641,250 95,000 35,000 775,000
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 222 221 222 223 224 225 226 227 228	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Orive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugging Completion Rig Substoral	Käte	Units		\$10,000 10,000 45,000 275,000 3,600,000 165,000 120,000 15,000 641,250 95,000 35,000 75,000 5,000	\$10,000 10,000 45,000 0 0 0 275,000 0 0 3,600,000 0 120,000 15,000 0 0 641,250 95,000 35,000 5,0
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 222 221 222 223 224 225 226 227 228	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugging Completion Rig  SUBIOTAL CONTINGENCY (%) 0.00% SUB-TOTAL INTANGIBLE COMPLETION COSTS	Käte	Units	\$3,129,142	\$10,000 10,000 45,000 3,600,000 165,000 120,000 15,000 641,250 95,000 75,000 30,000 30,000	\$10,000 10,000 10,000 45,000 0 0 275,000 0 3,600,000 0 165,000 120,000 15,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 222 221 222 223 224 225 226 227 228	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugging Completion Rig  SUBTOTAL CONTINGENCY (%) 0.00% SUB-TOTAL INTANGIBLE COMPLETION COSTS	Käte	Units	\$3,129,142	\$10,000 10,000 45,000 275,000 3,600,000 165,000 120,000 15,000 641,250 95,000 35,000 75,000 30,000 \$5,141,250 \$5,141,250	\$10,000 10,000 10,000 45,000 0 0 275,000 0 0 3,600,000 0 165,000 20,000 15,000 0 (641,256 0 95,000 3,50,000 0 (60,000 0 95,141,256
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 222 221 222 223 224 225 226 227 228	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugging Completion Rig  SUBIOTAL CONTINGENCY (%) 0.00% SUB-TOTAL INTANGIBLE COMPLETION COSTS	Rate		\$3,129,142 DRYHOLE	\$10,000 10,000 45,000 275,000 3,600,000 165,000 120,000 15,000 641,250 95,000 35,000 75,000 30,000 \$5,141,250 \$5,141,250	\$10,000 10,000 10,000 45,000 0 0 275,000 0 0 3,600,000 0 165,000 20,000 15,000 0 (641,256 0 95,000 3,50,000 0 (60,000 0 95,141,256
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 210 211 212 213 214 215 216 217 218 220 221 222 223 224 225 226 227 229 220 220 210 210 210 210 210 210 210 210	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugging Completion Rig  SUBIOTAL CONTINGENCY (%) 0.00% SUB-TOTAL INTANGIBLE COMPLETION COSTS  TANGIBLE DRILLING COSTS  DESCRIPTION Drive Pipe Conductor Casing				\$10,000 10,000 45,000 275,000 3,600,000 165,000 120,000 15,000 641,250 95,000 35,000 75,000 30,000 \$5,141,250 \$5,141,250	\$10,000 10,000 45,000 45,000 0 0 275,000 0 3,600,000 0 165,000 120,000 15,000 0 641,255 0 95,000 30,000 0 30,000 0 \$5,141,255 \$8,270,392
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 205 206 207 208 209 210 211 213 214 215 216 227 220 221 222 223 224 227 228 229 229 220 220 210 211 215 216 217 220 220 221 221 221 222 223 224 225 226 227 227 228 229 229 220 220 220 220 220 220 220 220	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugging Completion Rig  Subtotal Contingency (%) 0.00% Sub-Total Intansible Completion Costs Sub-Total Intansible Costs TANGIBLE DRILLING COSTS  DESCRIPTION Drive Pipe Conductor Casing Surface Casing	Rate	Units 0 0 0	DRYHOLE \$20,000 \$50,000	\$10,000 10,000 45,000 275,000 3,600,000 165,000 120,000 15,000 641,250 95,000 35,000 75,000 30,000 \$5,141,250 \$5,141,250	\$10,000 10,000 10,000 45,000 0 0 275,000 0 0 3,600,000 0 165,000 20,000 15,000 0 641,25( 641,25( 65,141,25( \$\$,270,39;
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 210 211 212 213 214 215 216 217 220 221 221 222 223 224 225 226 227 229 229 220 220 230 240 240 250 260 270 270 270 270 270 270 270 270 270 27	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Orive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugging Completion Rig  SUBTOTAL CONTINGENCY (%) SUB-TOTAL INTANGIBLE COMPLETION COSTS SUB-TOTAL INTANGIBLE COSTS  TANGIBLE DRILLING COSTS  DESCRIPTION Drive Pipe Conductor Casing Surface Casing Intermediate Casing	Rate   S   S   S   S   S   S   S   S   S	Units 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	DRYHOLE \$20,000 \$50,000 \$125,000	\$10,000 10,000 45,000 275,000 3,600,000 165,000 120,000 15,000 641,250 95,000 35,000 75,000 30,000 \$5,141,250 \$5,141,250	\$10,000 10,000 45,000 45,000 0 0 275,000 0 0 3,600,000 0 165,000 120,000 15,000 0 641,250 0 95,000 3,000 0 3,000 0 15,000
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 205 206 207 208 209 210 211 213 214 215 216 227 220 221 222 223 224 227 228 229 229 220 220 210 211 215 216 217 220 220 221 221 221 222 223 224 225 226 227 227 228 229 229 220 220 220 220 220 220 220 220	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugging Completion Rig  SUBIOTAL CONTINGENCY (%) 0.00% SUB-TOTAL INTANGIBLE COMPLETION COSTS  DESCRIPTION Drive Pipe Conductor Casing Intermediate Casing Intermediate Casing Intermediate Casing Intermediate Casing Intermediate Casing	Rate	Units 0 0 0	DRYHOLE \$20,000 \$50,000	\$10,000 10,000 45,000 275,000 3,600,000 165,000 120,000 15,000 641,250 95,000 35,000 75,000 30,000 \$5,141,250 \$5,141,250	\$10,000 10,000 10,000 45,000 0 0 275,000 0 3,600,000 0 165,000 120,000 1,5,000 35,000 35,000 35,000 35,000 35,000 75,000 \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 219 220 221 233 224 245 299 299 200 200 200 200 200 200 200 200	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugging Completion Rig  SUBTOTAL CONTINGENCY (%) 0.00% SUB-TOTAL INTANGIBLE COMPLETION COSTS SUB-TOTAL INTANGIBLE COSTS  TANGIBLE DRILLING COSTS  DESCRIPTION Drive Pipe Conductor Casing Surface Casing Intermediate Casing Intermediate Casing Intermediate Casing Subs 15 Espt Centralizers Etc Casinghead Drilling Spool	Rate   S   S   S   S   S   S   S   S   S	Units 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$20,000 \$50,000 \$125,000 \$330,000	\$10,000 10,000 45,000 275,000 3,600,000 165,000 120,000 15,000 641,250 95,000 35,000 75,000 30,000 \$5,141,250 \$5,141,250	\$10,000 10,000 10,000 45,000 0 0 275,000 0 0 3,600,000 0 165,000 20,000 15,000 0 35,000,000 0 35,000,000 0 10,000 15,000
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 210 211 213 214 215 216 217 218 219 220 221 223 224 227 228 299 299 200 200 201 210 211 217 218 219 210 210 210 210 210 210 210 210 210 210	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugging Completion Rig  SUBIOTAL CONTINGENCY (%) 0.00% SUB-TOTAL INTANGIBLE COMPLETION COSTS  DESCRIPTION Drive Pipe Conductor Casing Surface Casing Intermediate Casing Intermediate Casing Intermediate Casing Sub Sufface Equipment	Rate   S   S   S   S   S   S   S   S   S	Units 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	DRYHOLE \$20,000 \$50,000 \$125,000	\$10,000 10,000 45,000 275,000 3,600,000 165,000 120,000 15,000 641,250 95,000 35,000 75,000 30,000 \$5,141,250 \$5,141,250	\$10,000 10,000 10,000 45,000 0 0 275,000 0 3,600,000 0 165,000 120,000 15,000 0 35,000 0 35,000 0 35,000 0 35,000 75,000 5,000 \$\$5,141,250 \$\$5,141,250 \$\$5,141,250 \$\$5,141,250 \$\$5,141,250 \$\$6,000 125,000 125,000 125,000 125,000 125,000 125,000 125,000 125,000 1330,000 125,000 1330,000
8306 8306 8306 8306 8306 8306 8306 8306	201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 219 220 221 233 224 245 299 299 200 200 200 200 200 200 200 200	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugging Completion Rig  SUBTOTAL CONTINGENCY (%) 0.00% SUB-TOTAL INTANGIBLE COMPLETION COSTS SUB-TOTAL INTANGIBLE COSTS  TANGIBLE DRILLING COSTS  DESCRIPTION Drive Pipe Conductor Casing Surface Casing Intermediate Casing Intermediate Casing Intermediate Casing Subs 15 Espt Centralizers Etc Casinghead Drilling Spool	Rate   S   S   S   S   S   S   S   S   S	Units 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$20,000 \$50,000 \$125,000 \$330,000	\$10,000 10,000 45,000 275,000 3,600,000 165,000 120,000 15,000 641,250 95,000 35,000 75,000 30,000 \$5,141,250 \$5,141,250	\$10,000 10,000 45,000 0 0 275,000 0 0 3,600,000 0 165,000 120,000 15,000 0 641,250 0 95,000 30,000 \$\$5,141,250 \$\$5,141,250 \$\$8,270,392

		TANGIBLE COMPLETION	COSTS						
ACC	CT.	DESCRIPTION		Ra	te U	Inits		COMPLETION	TOTAL WELL COST
09	401	Production Casing		\$		0		355,000	\$355,00
109	402	Tubing		\$	-	0		45,000	45,00
109	403	Subs Flt Egpt Centralizers Etc		-					A STATE OF THE PARTY.
09	404	Sub Surface Equipment						30,000	30,00
109	405	Xmas Tree Upper Section						60,000	60,0
09	406	Outside Operated Other							and younger of the first
		SUB-TOTAL TANGIBLE COMPLETION COS	.16					4400 000	4400.00
			313				4505.000	\$490,000	\$490,00
		SUB-TOTAL TANGIBLE COSTS					\$585,000	\$490,000	\$1,075,00
		SUB-TOTAL INTANGIBLE & TANGIBLE CO					\$3,714,142	\$5,631,250	\$9,345,39
		PRODUCTION EQUIPME	NT COSTS						
-		A 1/6 / - 1 1/6 F						COMPLETION	TOTAL WELL COST
11	501	Artificial Lift Equipment						\$15,000	\$15,0
11	502	Prime Mover Electric Gas							AMILIATING STATES
11	503	Sales Gathering Line						50.000	50.0
11_	504	Separation Equipment Oil Treating Heating Equipment			***************************************			50,000	50,0
11	506	Gas Treating Dehy Equipment			-				State of the second second
11		Tanks						70,000	70,0
11	508	Meters						55,000	55,0
11	509	Electrical Equip Install						20,000	20,0
11	510	Compressor						20,000	20,0
11	511	Flowlines						50,000	50,0
11	512	Labor			-			130,000	130,0
11	513	Trucks Hauling Transportation						200/000	F10.2 ACC 42-18-28-17-17-17
11	514	Buildings							CONTRACTOR OF SAME
11	515	Roads & Locations						10,000	10,0
11	516	Manifolds & Headers						15,000	15,0
11	517	Chemical Injection System						20/000	TO SHIP WESTER, TANK
11	518	Piping & Valves						50,000	50,0
11	519	Welding							CONTRACTOR VIOLATION
11	520	Surface Pumps						5,000	5,0
311	521	Filters							2、10年来中国
311	522	Outside Operated Other					1 10		1967年1987年1月
311	523	Environmental & Safety						10,000	10,0
311	524	Engineering Supervision						30,000	30,0
11	525	Surface Facilities						15,000	15,0
		SUB-TOTAL PRODUCTION EQUIPMENT						\$525,000	\$525,
		SUB-TOTAL INTANGIBLE COSTS (PAG	E 1)				\$3,129,142	\$5,141,250	\$8,270,
		SUB-TOTAL TANGIBLE COSTS (PAGE	2)				\$585,000	\$490,000	\$1,075,
-			GRAND TOTAL	1			\$3,714,142		\$9,870,
_								\$6,156,250	
			LESS OUTSID				\$3,714,142	\$6,156,250	\$9,870,
			TOTAL NET CO	OSTS			\$0	\$0	
		Costs shown on this form are esti- will be required to perform the proposed			ider these	e estimates as esta			
EPAR	RED BY			DATE			GROSS AFE AMOUNT - DRY HOLE		\$3,714
							NET DRYHOLE AFE AMOUNT		
PRO	VED			DATE			NET ASSET TRANSFERS		
							CASH OUTLAY THIS AFE		
				DATE					
	VED			0			PREVIOUS AFE'S ISSUED		
PRO				0.75			TOTAL CASH OUTLAY		
PRO	VFD			DATE					
					-				
PRO		WORKING INTEREST AF	PROVAL						
			PPROVAL VORKING INTERES	ST			APPROVED BY		DATE
				ST			APPROVED BY		DATE
				ST			APPROVED BY		DATE

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