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 MEWBOURNE OIL COMPANY FOR COMPULSORY POOLING, LEA COUNTY, NEW MEXICO.

Case No. 20298

MEWBOURNE OIL COMPANY'S RESPONSE IN OPPOSITION TO MOTION TO SUSPEND DRILLING PERMIT

Mewbourne Oil Company ("Mewbourne") files this response in opposition to the motion to suspend a drilling permit filed by Catena Resources Operating, LLC ("Catena"). The motion to suspend a drilling permit will be referenced as the "Catena Motion".

A. FACTS.

- 1. In this case, Mewbourne seeks an order pooling all mineral interests in the Bone Spring formation in a horizontal spacing unit comprised of the E/2W/2 of Section 21 and the E/2W/2 of Section 28, Township 19 South, Range 35 East, NMPM, Lea County, New Mexico. The unit will be dedicated to the Charolais 21/28 B2CN State Com. Well No. 1H.
- 2. Catena's motion proposes to "immediately suspend Mewbourne Oil Company's drilling permits on Section 21, Township 19 South, Range 35 East" and the "applications... will not be limited to Case Nos. 20298, 20328, 20329" which are the only pending pooling applications including Section 21. See Catena Motion at 1.
- 3. Mewbourne owns 100% of the working interest in the W/2W/2 of Sections 21 and 28 which is <u>not</u> subject to a pending pooling case, yet would be impermissibly, adversely affected by Catena's motion.

- 4. Approximately three (3) months ago, in January 2019, Mewbourne proposed its Charolais 21/28 B2CN State Com. Well No. 1H to the parties of record. Although Catena is not a party of record, after hearing Catena may be acquiring an interest within the proposed spacing unit, Mewbourne additionally provided notice to Catena in the same month. In February 2019, Mewbourne informed Catena that it intended to commence drilling the W/2 of Sections 21 and 28 in March 2019.
- 5. In the E/2W/2 of Sections 21 and 28 Mewbourne owns 100% of the working interest in all but the E/2SW/4 of Section 21. In the E/2SW/4 of Section 21, Mewbourne owns 60% of the working interest. (As a result, Mewbourne owns 90% of the working interest in the proration unit covering the E/2W/2 of Sections 21 and 28 along with 100% of the working interest in the W/2W/2 of Sections 21 and 28.) Though Mewbourne cannot locate a conveyance in the public records, Catena claims to own 32 net acres in the E/2SW/4 of Section 21, or 10% of the horizontal spacing unit. *See* Exhibit A.
- 6. Mewbourne has a rig on location and plans to spud the Charolais 21/28 B2CN State Com. Well No. 1H today and drill the Charolais 21/28 B1DM State Com. Well No. #1H immediately thereafter. The units for the wells have been established in full compliance with the rules of the Division. Mewbourne owns an interest in each tract within the well unit, an APD was approved by the Division, and Mewbourne would be severely affected by a suspension of the valid APD. Further, Catena has known about MOC's drilling plans since February 2019. This last minute attempt to delay drilling is improper, baseless, and any delay will cause significant financial harm to MOC.
- 7. In addition, Mewbourne owns a farmout from Chevron with a term deadline covering approximately 3000 acres of land in this same area. A last-minute suspension of the

valid APD for this well would cause Mewbourne's correlative rights to be severely affected by possibly causing Mewbourne to miss obligation dates set forth within the farmout and a loss of rights associated therewith. Mewbourne has additional term assignment obligations covering the E/2SW/4 of Section 21.

- 8. Catena has not proposed Bone Spring wells in the W/2 of Section 21 or W/2 of 28. Catena's only well proposals in these tracts are for developing the Wolfcamp formation: the Cable 19-35-16 1H and the Anchor 19-35-28 #1H. Copies of the proposals are attached as Exhibits B & C. Catena is seeking to suspend Mewbourne's valid APD without a competing proposal.
- 9. Mewbourne has been working on this prospect since January 2018 and has already commenced operations. Mewbourne's APD was filed in November 2018, <u>before</u> Catena acquired its interest in Section 33. Catena was on notice of Mewbourne's plans before they acquired the lease in Section 33 and should have been aware that their development plan might not be viable.
- Section 33 will be "stranded" if its motion is not granted. Looking at Exhibit D, (a) Catena can develop its acreage in Section 33 with standard horizontal proration units without interfering in Mewbourne's development plans and (b)Catena has the ability to form a two mile well unit in Sections 9 and 16 without interfering with Mewbourne's development plans. The clear majority of wells in this area have been developed on one-mile laterals (83% of Bone Spring wells on Exhibit D), and Catena is free to do so in Section 33. The suspension of valid APDs because of the claim that use of standard one-mile horizontal spacing units would "strand" acreage would set a dangerous precedent and undermine the definition of a proration unit.

11. Catena delayed seeking suspension of Mewbourne's valid permits until a rig was on location.

12. Mewbourne has valid APDs and a pooling order is not necessary to drill a well, NMSA 1978 70-2-17 (B & C); NMAC 19.15.16.15 (A) and NMAC 19.15-16.15.C(10).

B. <u>CONCLUSION</u>.

13. Based on the foregoing, Mewbourne has complied with all Division requirements to pool, file permits, and drill the Charolais 21/28 B2CN State Com. Well No. 1H and Charolais 21/28 B2DM State Com. Well No. 1H and will be severely harmed by the suspension of the APDs.

14. Mewbourne's proposed development in Sections 21 & 28 will not impact Catena's correlative rights or cause waste in Section 33.

WHEREFORE, for the foregoing reasons, Mewbourne requests that Catena's motion be denied.

Respectfully submitted,

James Bruce

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(505) 982-2043

jamesbruc@aol.com

Attorney for Mewbourne Oil Company

VERIFICATION

STATE OF TEXAS)
) ss.
COUNTY OF MIDLAND)

Cy Shook, being duly sworn upon his oath, deposes and states that: He is a landman for Mewbourne Oil Company; he is authorized to make this verification on its behalf; he has read the foregoing statement, and knows the contents of Part A; and the same are true and correct to the best of his knowledge, information, and belief.



SUBSCRIBED AND SWORN TO before me this

day of April 2019 by Cy Shook.

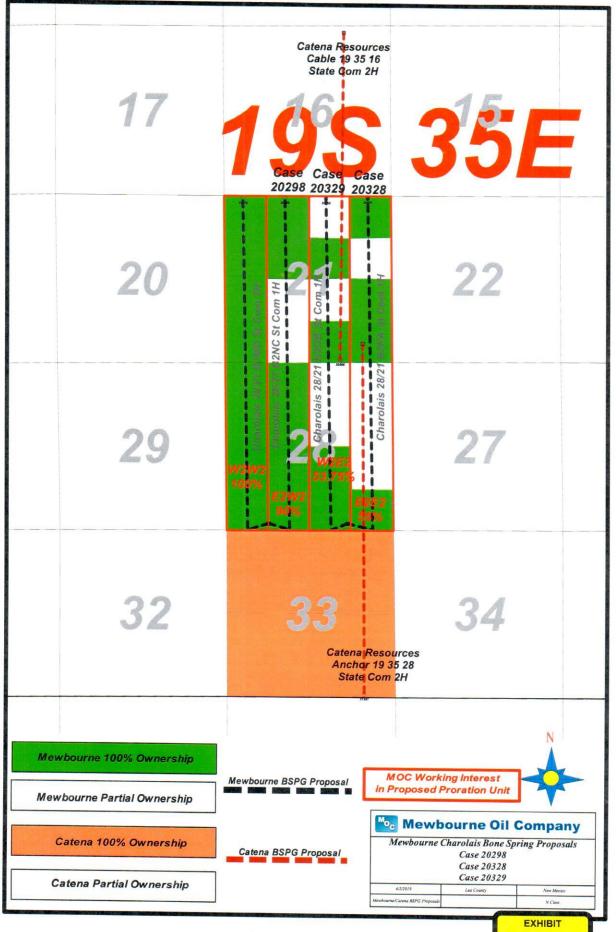
My Commission Expires: 8 - 22 22

Notary Public

CERTIFICATE OF SERVICE

I hereby certify that a copy of the foregoing pleading was served upon the following counsel of record this ______ day of April, 2019 by e-mail:

Sharon Shaheen sshaheen@montand.com



A

-	_					IMATE			AFE NO. 019001	
ATEN	AL	WELL NA		Ancher 1	9-35-33 8 1H		DATE:	1/28/19	Prep Days	013001
RESOUR	CES	FIELD NA		2 sec, late	eral.		START DATE: COMPLETE DATE:	III ON TO	Drillout Days	3
		COUNTY		Lea / NM			ORIGINAL:	x	Tube Up Flowback Days	10
		OBJECT	ve.	Wolfcam			SUPPLEMENT: Stage/Day			
Control of the Contro	BLE COSTS			CODE	DRILLING - 310XX	ACCT CODE	COMPLETION - 320XX	CODE	FACILITIES - 330XX	TOTAL
Legal Fees / Title Opinion Surveys / Staking / Permits / Bonds				31001 31002	\$500 \$2,500	32001 32002		33001		\$500
ROW / Surface Damages Roads & Location / Reserve Pit - Con	setmentle e			31003		32003		33002		\$2,500
Roads & Location / Reserve Pit - Rec				31004 31005	\$75,678	32004 32005	\$0			\$75,678 \$0
Frac Pond Gate Guard				31005	CONTRACTOR	32006	Market Statement Comme			
Mouse / Rathole / Conductor				31006 31007	100 C	32007	\$7,500			\$7,500 \$0
Mobilization / Demobilization Orilling - Daywork				31008 31009	\$116,667 \$513,552	32008				\$116,667
Orliling - Footage				31009	\$513,552		STATE OF THE PARTY			\$513,552 \$0
Orilling - Turnkey Completion / Snubbing / Workeyer U	Init			31011						20
Completion / Snubbing / Workever U Trailer House / Communications				31013	\$15,339	32009 32010	\$32,000 \$39,255			\$32,000 \$54,594
Orlii Bits Directional Equipment / Gyro Surveys	3			31014	\$80,000 \$206,435	32011 32012				\$80,000
Downhole Tool / Stabilization Rental				31016	Name and Address of the Owner, where the Owner, which is the Owner, which is the Owner, where the Owner, which is the Owner,	32013	\$33,000			\$206,435 \$33,000
Mud / Chemicals Fuel / Power				31017	\$83,884 \$113,681	32014 32015	\$27,000 \$13,295			\$110,884
Water Supply Well, equipment				31019	\$110,001	32016	SCHOOL SECTION			\$126,976
Water / Water Hauling Offsite Water & Cuttings Disposal Transportation / Hauling				31020 31021	\$51,108	32017 32018	\$992,000 \$21,000			\$992,000
Transportation / Hauling Inspection / Tubular Testing				31022	\$187,000	32019	421,000			\$72,108 \$187,000
Laydown Machine / Casing Crew / To	ngs			31023 31024	\$29,500 \$14,476	32020 32021	\$29,603			\$29,500 \$44,079
Laydown Machine / Casing Crew / To Cementing, Float Equipment & Service Mud Logging	ces			31025	\$50,000	32022	\$114,000			\$164,000
Logging - Open Hote				31026 31027	\$38,623	32023	ACTION NO. 10			\$38,623
Logging - Cased Hole Coring & Analysis, Drill Stem Test				31029 31029		32024	\$30,000			\$30,000
Perforating				31030		32025	\$336,818			\$0 \$336,818
Wireline / Slickline Services Equipment Rental				31031 31032	\$77,776	32026	THE RESERVE OF THE PARTY.			\$00,616
Pumping Services/Rental				31033	\$127,394	32027 32028	\$165,909			\$243,685
Acidizing & Fracturing Coll Tubing Unit	2,000 mm SW 1	W. ChF		31034 31035		32029	\$3,582,273			\$3,562,273
Flow Testing, Swabbing	STATE AND			31035	The second second	32030 32031	\$147,000 \$104,523			\$147,000
Fishing / Sidetrack Services Nipple Up / BOPE Testing				31037 31038		32032	The Control of the last of the			\$104,523 \$0
Overhead				31039		32033 32034	\$7,500			\$7,500 \$0
Wellsite Consulting Services/Supe	sion Tracers and d	(lagnostics		31040 31041	\$152,593	32035	\$118,364	33003		\$270,957
Roustabout / Contract Labor	Trescris and c	negriostics	1	31042	\$22,720	32036 32037	\$52,000 \$25,000	33004		\$52,000 \$47,720
Welding Services Insurance				31043 31044	\$10,000	32038	\$5,000			\$5,000
Miscellaneous P&A Costs				31045	\$10,000	32039 32040	\$10,000	33005 33006		\$20,000
Safety / EH&S				31046 31047		32041 32042	50.500			
5% Contingency (8% Taxes on Casing	g included in	casing cos	t)	31048	\$98,471	32043	\$6,636 \$293,984	33007		\$6,636 \$392,455
NON-On Drillian Intensible										
Pipeline Installation / Interconnect				31049 31050		32044	50	*****		
NON-Op Drilling Intangible	GIBLE COSTS	S			\$2,067,897		\$0 \$6,173,680	33008	\$0	\$0 \$8,241,557
NON-Op Drilling Intangible Pipeline Installation / Interconnect TOTAL INTAN	GIBLE COSTS	S		31050 ACCT		32044 32045		33008 ACCT		\$0 \$8,241,557
NON-Op Drilling Intangible Pipeline Installation / Interconnect TOTAL INTAN TANGIBL		S Feet	\$/R	31050	\$2,067,897 DRILLING - 311X	32044	\$6,173,680		FACILITIES - 331XX	\$0
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NON-Op Drilling Intanglible Pipeline Installation / Interconnect TOTAL INTAN TANGIBL Conductor Surface Casing 1st Intermediate Casing / Liner	E COSTS		\$35.00	31050 ACCT CODE 31101 31102 31103		32044 32045	\$6,173,680 COMPLETION -	ACCT	FACILITIES -	\$0 \$8,241,557 TOTAL \$87,900
NON-Op Drilling Intangible Pipeline Installation / Interconnect TOTAL INTAN TANGIBL Conductor Surface Casing 1st Intermediate Casing / Liner and Intermediate Casing / Liner	Size 13 3,85" 9 5/8"	1,940 4,190	\$35.00 \$ 25.00	31050 ACCT CODE 31101 31102	PRILLING - 311X	32044 32045 ACCT CODE	\$6,173,680 COMPLETION - 321XX	ACCT	FACILITIES -	\$0 \$8,241,557 TOTAL
NON-Op Drilling Intangible Pipeline Installation / Interconnect TOTAL INTAN TANGIBL Conductor Surface Casing Surface Casing / Liner And Intermediate Casing / Liner Production Casing / Liner Production Casing / Liner Casing Tie Back	E COSTS Size	Feet 1,940	\$35.00	31050 ACCT CODE 31101 31102 31103	PRILLING - 311X	32044 32045	\$6,173,680 COMPLETION -	ACCT	FACILITIES -	\$0 \$8,241,557 TOTAL \$57,900 \$104,750
NON-Op Drilling Intangible Pipeline Installation / Interconnect TOTAL INITAN TANGIBL Conductor Surface Casing 1st Intermediate Casing / Liner And Intermediate Casing / Liner Production Casing / Liner Casing Tie Back Liner Hanger Assembly Tubing	Size 13 3/8" 9 5/8" 5 1/2"	1,940 4,190 21,790	\$35.00 \$ 25.00 \$25.00	31050 ACCT CODE 31101 31102 31103	PRILLING - 311X	32044 32045 ACCT CODE 32101 32102 32103	\$6,173,680 COMPLETION - 321XX 3544,750	ACCT	FACILITIES -	\$8,241,557 TOTAL \$87,900 \$104,750 \$0 \$544,750
NON-Op Drilling Intangible Pipeline Installation / Interconnect TOTAL INTAN TANGIBL Conductor Surface Casing Stringer Casing 1 Liner 2nd Intermediate Casing / Liner Production Casing / Liner Casing Tie Back Liner Hanger Assembly Tubing Tubing Casing Squipment - OHMS / Etc.	Size 13 3/8" 9 5/8" 5 1/2"	1,940 4,190	\$35.00 \$ 25.00 \$25.00	31050 ACCT CODE 31101 31102 31103 31104	S67,900 \$104,750	32044 32045 ACCT CODE 32101 32102 32103 32104 32105	\$6,173,680 COMPLETION - 321XX 3544,750 366,339	ACCT	FACILITIES -	\$0,241,557 TOTAL \$57,900 \$104,750 \$3544,750
NON-Op Drilling Intangible Pipeline Installation / Interconnect TOTAL INTAN TANGIBL Conductor Surface Casing Stringer Casing 1 Liner 2nd Intermediate Casing / Liner 2nd Intermediate Casing / Liner Production Casing / Liner Casing Tie Back Liner Hanger Assembly Tubing Tubing Uner Hanger Assembly Tubing	Size 13 3/8" 9 5/8" 5 1/2"	1,940 4,190 21,790	\$35.00 \$ 25.00 \$25.00	31050 ACCT CODE 31101 31102 31103	PRILLING - 311X	32044 32045 ACCT CODE 32101 32102 32103 32104 32105 32106	\$6,173,680 COMPLETION - 321XX 3544,750	ACCT	FACILITIES -	\$0,241,557 TOTAL \$67,900 \$104,750 \$0 \$344,750 \$66,336 \$40,000
NON-Op Drilling Intangible Pipeline Installation / Interconnect TOTAL INITAN TANGIBL Conductor Surface Casing Surface Casing Surface Casing / Liner And Intermediate Casing / Liner And Intermediate Casing / Liner Production Casing / Liner Casing Tie Bask Liner Hanger Assembly Tubing Casing Equipment - OHMS / Etc. Wellhead Equipment Pumping Unit / Prime Mover / Base Pumping Unit / Prime Mover / Base Rods / Pony Rods / Siniker Bars	Size 13 3/8" 9 5/8" 5 1/2"	1,940 4,190 21,790	\$35.00 \$ 25.00 \$25.00	31050 ACCT CODE 31101 31102 31103 31104	S67,900 \$104,750	32044 32045 ACCT CODE 32101 32102 32103 32104 32105 32106 32107 32108	\$6,173,660 COMPLETION - 321XX 3544,750 386,339 \$16,000	ACCT	FACILITIES -	\$0, \$0, \$0, \$0, \$0, \$0, \$0, \$0, \$0, \$0,
NON-Op Drilling Intangible Pipeline Installation / Interconnect TOTAL INITAN TANGIBL Conductor Surface Casing Surface Casing Surface Casing / Liner 2nd Intermediate Casing / Liner 2nd Intermediate Casing / Liner 2nd Intermediate Casing / Liner Casing Tie Base Liner Hanger Assembly Tubing Casing Equipment - OHMS / Etc. Wellhead Equipment Pumping Unit / Prime Mover / Base Artificial Lift Other - Gas Lift Wellhead Equipment Completions	Size 13 3/8" 9 5/8" 5 1/2"	1,940 4,190 21,790	\$35.00 \$ 25.00 \$25.00	31050 ACCT CODE 31101 31102 31103 31104	S67,900 \$104,750	32044 32045 ACCT CODE 32107 32102 32103 32104 32105 32107 32108 32107 32108	\$6,173,660 COMPLETION - 321XX \$544,750 \$66,339 \$15,000	ACCT CODE 33101 33102 33103	FACILITIES -	\$0,241,557 TOTAL \$67,900 \$104,750 \$544,750 \$68,336 \$30 \$40,000 \$59 \$59
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NON-Op Drilling Intangible Pipeline Installation Interconnect TOTAL INTAN TANGIBL Conductor Surface Casing Surface Casing Surface Casing / Liner And Intermediate Casing / Liner Production Casing / Liner Production Casing / Liner Production Casing / Liner Production Casing / Liner Casing Tie Back Liner Hanger Assembly Tubing Tubing Tubing Surface Prime Mover / Base Rodis / Pony Rodis / Sinker Bars Artificial Lift Chier - Cas Lift Wellhead Equipment Pumping full in Prime Mover / Base Rodis / Pony Rodis / Sinker Bars Artificial Lift Chier - Cas Lift Wellhead Equipment Completions Tanks / Tank Steps / Stalrs Gas Treating / Dehydration Equipmen Sparation Equipment, Heater Treater Surface Pumps Filters Buildings Interconnect Piping / Manifolds / Head Flowlines / Connections / Valves Automation / Instruments / Cortrols /	E COSTS Size 13 38" 9 58" 5 1/2" 2.875	1,940 4,190 21,790	\$35.00 \$ 25.00 \$25.00	31050 ACCT CODE 31101 31102 31103 31104	S67,900 \$104,750	32044 32045 ACCT CODE 32101 32102 32103 32104 32106 32106 32106 32111 32112 32113 32114 32115 32116 32116 32117 32118	\$6,173,660 COMPLETION - 321XX \$544,750 \$66,339 \$15,000	33101 33102 33103 33104 33105 33106 33107 33108 33109 33110 33111 33111	FACILITIES - 331XX 331XX 500,000 500,000 550,000 5725,000	\$0,000 \$8,241,557 TOTAL \$57,900 \$104,750 \$544,750 \$40,000 \$14,000 \$14,000 \$80,000 \$30,000 \$30,000 \$30,000 \$50,
NON-Op Drilling Intangible Pipeline Installation Interconnect TOTAL INTAN TANGIBL Conductor Surface Casing Surface Casing Surface Casing / Liner And Intermediate Casing / Liner Production Casing / Liner Production Casing / Liner Production Casing / Liner Production Casing / Liner Casing Tie Back Liner Hanger Assembly Tubing Tubing Tubing Surface Prime Mover / Base Rods / Pony Rods / Sinker Bars Artificial Lift Chier - Cas Lift Wellhead Equipment Pumping full in Prime Mover / Base Rods / Pony Rods / Sinker Bars Artificial Lift Chier - Cas Lift Wellhead Equipment Completion Tanks / Tank Steps / Stalrs Gas Treating / Dehydration Equipmen Sparation Equipment, Heater Treater Surface Pumps Filters Buildings Interconnect Piping / Manifolds / Head Flowlines / Connections / Valves Automation / Instruments / Controls / Electrical Equipment / Cenerators Compressor & Related Equipment	E COSTS Size 13 38" 9 58" 5 1/2" 2.875	1,940 4,190 21,790	\$35.00 \$ 25.00 \$25.00	31050 ACCT CODE 31101 31102 31103 31104	S67,900 \$104,750	32044 32045 ACCT CODE 32102 32103 32103 32104 32106 32106 32110 32116 32116 32116 32117 32118 32118 32118 32118 32118 32118 32118 32118 32118	\$6,173,660 COMPLETION - 321XX \$544,750 \$66,339 \$15,000	33101 33102 33103 33104 33105 33106 33107 33108 33110 33111 33112 33113 33113	FACILITIES - 331XX 331XX 500,000 500,000 550,000 5725,000	\$0,241,557 TOTAL \$67,900 \$104,750 \$544,750 \$544,750 \$10,900 \$10,900 \$10,900 \$10,900 \$10,900 \$11,000 \$12,000
NON-Op Drilling Intangible Pipeline Installation / Interconnect TOTAL INTAN TANGIBL Conductor Surface Casing Surface Casing Surface Casing Surface Casing Inter Conductor Surface Casing / Liner Production Casing / Liner Production Casing / Liner Production Casing / Liner Casing Te Back Liner Hanger Assembly Tubing Uner Hanger Assembly Tubing Uner Hanger Assembly Tubing Surface Forey Wellhead Equipment Pumping Iufi Prime Mover / Base Rods / Pony Rods / Sinker Bars Artificial Lin Other - Gas Lin Wellhead Equipment Completions Tanks / Tank Steps / Stalin Casi Treating / Deptydration Equipmen Separation Equipment, Heater Treater Surface Pumps Billers Surface Pumps Billers Surface Pumps Billers Surface Pumps Interconnect Piping / Manifolds / Head Surface Pumps Electrical Equipment / Generator Compressor & Related Equipment / Gortons Compressor & Related Equipment Compressor & Related Equipment Metering Equipment, LACT Unit	E COSTS Size 13 3.8" 9 58" 5 1/2" 2.875	1,940 4,190 21,790	\$35.00 \$ 25.00 \$25.00	31050 ACCT CODE 31101 31102 31103 31104	S67,900 \$104,750	32044 32045 ACCT CODE 32102 32102 32103 32104 32105 32106 32106 32111 32112 32113 32114 32115 32116 32116 32117 32116 32116	\$6,173,660 COMPLETION - 321XX \$544,750 \$66,339 \$15,000	33101 33102 33103 33104 33105 33106 33109 33110 33111 33111 33111 33111 33111 33111	\$00,000 \$00,000 \$00,000 \$125,000 \$55,000	\$67,900 \$104,750 \$544,750 \$544,750 \$544,750 \$10,750 \$10,750 \$10,750 \$10,750 \$14,000 \$1
NON-Op Drilling Intangible Pipeline Installation / Interconnect TOTAL INTAN TANGIBL Conductor Surface Casing Surface Casing Surface Casing Surface Casing Surface Casing / Liner And Intermediate Casing / Liner Production Casing / Liner Production Casing / Liner Casing Tie Back Liner Hanger Assembly Tubing Tubing Tubing Surface Surface Surface Wellhead Equipment Oelhofts Frime Mover / Base Rods / Pony Rods / Sinker Bars Artificial Lift Chier - Cas Lift Wellhead Equipment Completions Tanks / Tank Steps / Stalrs Gas Treating / Dehydration Equipmen Sparation Equipment, Heater Treater Surface Pumps Filters Buildings Interconnect Piping / Manifolds / Head Flowlines / Connections / Valves Automation / Instruments / Controls /. Electrical Equipment / Cathodic Prote Metering Equipment / Cathodic Prote **Material Equipment / Cathodic Prote **Materia	ECOSTS Size 13.38F 9.57E 5.17Z 2.875 Analyzers	1,940 4,190 21,790	\$35.00 \$ 25.00 \$25.00	31050 ACCT CODE 31101 31102 31103 31104	S67,900 \$104,750	32044 32045 32045 32107 32102 32103 32104 32105 32106 32107 32113 32114 32112 32113 32114 32115 32116 32117 32117 32118 32118 32118 32118 32118 32118 32118 32118 32118 32118 32118	\$6,173,660 COMPLETION - 321)X 3544,750 356,339 \$16,000 \$42,000	35101 35101 35102 35103 35104 35105 35106 35109 35110 35111 35111 35111 35111 35111 35111 35111 35111	FACILITIES - 331XX 331XX 500,000 500,000 550,000 5725,000	\$0,000 \$8,241,557 TOTAL \$57,900 \$104,750 \$544,750 \$40,000 \$14,000 \$14,000 \$80,000 \$80,000 \$80,000 \$50,
NON-Op brilling intangible Pipeline installation / Interconnect TOTAL INTAN TANGIBL Conductor Surface Casing Surface Casing Surface Casing Surface Casing Surface Casing / Liner And Intermediate Casing / Liner Production Casing / Liner Production Casing / Liner Casing Tie Back Liner Hanger Assembly Tubing Tubing Tubing Tubing Surface Surfac	ECOSTS Size 13.38F 9.57E 5.17Z 2.875 Analyzers	1,940 4,190 21,790	\$35.00 \$ 25.00 \$25.00	31050 ACCT CODE 31101 31102 31103 31104	S67,900 \$104,750	32044 32045 32045 32107 32102 32102 32103 32108 32108 32108 32112 32112 32113 32116 3212 3212	\$6,173,660 COMPLETION - 321XX 3544,750 566,339 514,000 542,000 511,000	ACCT CODE 33101 33102 33103 33104 33105 33106 33107 33110 33111 33112 33113 33114 33115 33115 33117 33117	\$90,000 \$90,000 \$125,000 \$125,000 \$20,000	\$0,000 \$8,241,557 TOTAL \$57,900 \$104,750 \$544,750 \$65,936 \$65,936 \$60,000 \$40,000 \$64,000 \$64,000 \$65,000 \$65,000 \$72,000 \$65,000 \$72,
NON-Op Drilling Intangible Pipeline Installation / Interconnect TOTAL INTAN TANGIBL Conductor Surface Casing Surface Casing Surface Casing Surface Casing Surface Casing / Liner And Intermediate Casing / Liner Production Casing / Liner Production Casing / Liner Production Casing / Liner Casing Tie Back Liner Hanger Assembly Tubing Tubing Tubing Surface Pumps Filter Sulface Surface Surfac	ECOSTS Size 13.38F 9.57E 5.17Z 2.875 Analyzers	1,940 4,190 21,790	\$35.00 \$ 25.00 \$25.00	31050 ACCT CODE 31101 31102 31103 31104	S67,900 \$104,750	32044 32045 32045 32101 32102 32103 32104 32108 32108 32107 32108 32112 32112 32113 32116 32116 32117 32118 32118 32118 32118 32118 32118 32118 32118 32118 32118 32123 32124 32123 32124 32125 32123 32124	\$6,173,660 COMPLETION - 321)X 3544,750 356,339 \$16,000 \$42,000	33161 33162 33162 33162 33163 33163 33163 33163 33163 33163 33163 33113 33113 33113 33113 33113 33113 33113 33113	\$00,000 \$00,000 \$00,000 \$125,000 \$55,000	\$0,241,557 TOTAL \$67,900 \$104,750 \$344,750 \$40,000 \$140,000 \$40,000 \$40,000 \$40,000 \$40,000 \$40,000 \$40,000 \$40,000 \$50,000
NON-Op brilling intangible Pipeline Installation / Interconnect TOTAL INTAN TANGIBL Conductor Surface Casing Surface Casing Surface Casing Surface Casing Surface Casing I Liner Production Casing / Liner Production Casing / Liner Production Casing / Liner Casing Tie Back Liner Hanger Assembly Tubing Uner Hanger Assembly Tubing Tubing Production Casing / Liner Casing Equipment OHMS / Etc. Wellhead Equipment Wellhead Equipment Wellhead Equipment Wellhead Equipment Casing Tanks / Tank Steps / Stalts Gas Treating / Oehydration Equipment Separation Equipment, Heater Treater Surface Pumps Blers Bler	ECOSTS Size 13.38F 9.57E 5.17Z 2.875 Analyzers	1,940 4,190 21,790	\$35.00 \$ 25.00 \$25.00	31050 ACCT CODE 31101 31102 31104 31103	\$67,900 \$104,750 \$25,000	32044 32045 32045 32107 32102 32103 32104 32108 32108 32108 32108 32111 32112 32113 32114 32115 32116 32117 32112 32113 32114 32115 32117 32112 32123 32123 32123 32124 32123 32124	\$6,173,660 COMPLETION - 321XX 3544,750 566,339 514,000 542,000 511,000	33101 33102 33103 33102 33103 33103 33104 33105 33106 33107 33113 33113 33113 33113 33113 33113 33113 33113	\$90,000 \$90,000 \$125,000 \$125,000 \$20,000	\$67,900 \$104,750 \$104,750 \$344,750 \$344,750 \$40,000 \$4
NON-Op Drilling Intangible Pipeline Installation / Interconnect TOTAL INTAN TANGIBL Conductor Surface Casing Surface Casing Surface Casing Surface Casing Surface Casing / Liner And Intermediate Casing / Liner Production Casing / Liner Production Casing / Liner Production Casing / Liner Casing Tie Back Liner Hanger Assembly Tubing Tubing Tubing Surface Pumps Filter Sulface Surface Surfac	ECOSTS Size 13.38F 9.57E 5.17Z 2.875 Analyzers	1,940 4,190 21,790	\$35.00 \$ 25.00 \$25.00	31050 ACCT CODE 31101 31102 31102 31103 31105	\$67,900 \$104,750 \$25,000 \$30	32044 32045 32045 32102 32102 32103 32104 32106 32106 32106 32107 32118 32112 32112 32113 32114 32112 32112 32113 32123 32123 32124 32127 327 327 327 327 327 327 327 327 327 3	\$6,173,660 COMPLETION - 321XX \$544,750 \$56,339 \$16,000 \$42,000 \$42,000 \$51,000 \$51,000	35101 33102 33103 33102 33103 33103 33104 33105 33106 33107 33113 33114 33115 33116 33117 33118 33117 33118 33123 33123 33123 33123	\$90,000 \$94,000 \$95,000 \$125,000 \$20,000 \$21,000	\$67,900 \$104,750 \$104,750 \$344,750 \$344,750 \$40,000 \$4
NON-Op Drilling Intangible Pipeline Installation / Interconnect TOTAL INTAN TANGIBL Conductor Surface Casing Surface Casing Surface Casing Surface Casing Surface Casing Inter Total Internediate Casing / Liner Production Casing / Liner Production Casing / Liner Casing Tie Back Liner Hanger Assembly Tubing Uner Hanger Assembly Tubing Uner Hanger Assembly Tubing Wellhead Equipment Pumping Unit / Prime Mover / Base Rods / Pony Rods / Sinker Bare Artificial Lift Other - Cass Lift Wellhead Equipment Completions Tanks / Tank Steps / Statrs Casi Treating / Deptydration Equipment Separation Equipment, Heater Treater Surface Pumps Buildings Interconnect Piping / Manifolds / Heat Surface Pumps Compressor & Related Equipment Compressor & Related Equipment Compressor & Related Equipment Chemical Equipment / Centrols / Electrical Equipment / Centrols / Chemical Equipment / Chemical Equip	ECOSTS Size 13.38" 9.58" 5.1/2" 5.1/2" 2.875 ders Analyzers ction 3, TAC	1,940 4,190 21,790	\$35.00 \$ 25.00 \$25.00	31050 ACCT CODE 31101 31102 31104 31103	\$67,900 \$104,750 \$25,000	32044 32045 32045 32107 32102 32102 32103 32108 32107 32108 32107 32108 32117 32116 32117 32116 32117 32116 32117 32116 32117 32118 32118 32118 32118 32118 32118 32118 32123 32124 32123 32124 32125 32125 32127 32128	\$6,173,660 COMPLETION - 321XX \$544,750 \$565,339 \$15,000 \$42,000 \$42,000 \$31,000 \$32,000 \$33,000 \$33,000	33161 33162 33163 33163 33163 33163 33163 33163 33163 33163 33163 33113 33113 33113 33114 33115 33113 33113 33113 33113 33113	\$90,000 \$90,000 \$90,000 \$125,000 \$125,000 \$20,000	\$0,000 \$8,241,557 TOTAL \$57,900 \$104,750 \$544,750 \$66,938 \$40,000 \$540,000 \$55
NON-Op Drilling Intangible Pipeline Installation / Interconnect TOTAL INTAN TANGIBL Conductor Surface Casing Surface Casing Surface Casing Surface Casing Surface Casing Inter 2nd Intermediate Casing / Liner Production Casing / Liner Production Casing / Liner Casing Tie Back Liner Hanger Assembly Tubing Uner Hanger Assembly Tubing Tubing Uner Hanger Assembly Tubing Wellhead Equipment Wellhead Equipment Wellhead Equipment Completions Tarins / Tank Steps / Stairs Gas Treating / Deptydration Equipment Separation Equipment, Heater Treater Surface Pumps Billers Surface Pumps Billers Surface Pumps Billers Surface Pumps Compressor & Relate Equipment Automation / Instruments / Controls / Electrical Equipment / Controls / Electrical Equipment / Generation Compressor & Relate Equipment Meeting Equipment / LacT uni Chemical Equipment Acat Tubin Chemical Equipment Acat Tubin Chemical Equipment Acat Tubin Chemical Equipment Faceter, Plugi Safety / ENE Sequipment Mon-Op Ordining Intangible Transfer/SWO Potfiling Intangible Transfer/SWO Potfiling Intangible Transfer/SWO Potfiling Intangible Transfer/SWO Potfiling Intangible Total Tanger	ECOSTS Size 13.38" 9.58" 5.1/2" 5.1/2" 2.875 ders Analyzers ction 3, TAC	1,940 4,190 21,790	\$35.00 \$ 25.00 \$25.00	31050 ACCT CODE 31101 31102 31102 31103 31105	\$25,000 \$104,750 \$25,000	32044 32045 32045 32102 32102 32103 32104 32106 32106 32106 32107 32118 32112 32112 32113 32114 32112 32112 32113 32123 32123 32124 32127 327 327 327 327 327 327 327 327 327 3	\$6,173,660 COMPLETION - 321XX \$544,750 \$56,339 \$16,000 \$42,000 \$42,000 \$51,000 \$51,000	35101 33102 33103 33102 33103 33103 33104 33105 33106 33107 33113 33114 33115 33116 33117 33118 33117 33118 33123 33123 33123 33123	\$90,000 \$94,000 \$95,000 \$125,000 \$20,000 \$21,000	\$67,900 \$104,750 \$104,750 \$344,750 \$344,750 \$40,000 \$4
NON-Op Drilling Intangible Pipeline Installation / Interconnect TOTAL INTAN TANGIBL Conductor Surface Casing Surface Casing Surface Casing Surface Casing Surface Casing Surface Casing I Liner Production Casing / Liner Production Casing / Liner Production Casing / Liner Production Casing / Liner Casing Tie Back Liner Hanger Assembly Tubing Tubing Tubing Surface Surface Wellhead Equipment Pumping full Prime Mover / Base Rods / Pony Rods / Sinker Bars Artificial Lift Other - Cas Lift Wellhead Equipment Wellhead Equipment Campletion Tanks / Tank Steps / Stairs Gas Treating / Dehydration Equipment Separation Equipment, Haeter Treater Surface Pumps Filters Buildings Surface Pumps Electrical Equipment / Cathodic Pote Subsurface Equipment To Potential Equipment / Cathodic Pote Subsurface Equipment To Tanafer / SWO Pumps & Equipment Tanafer / SWO Pumps & Equipment To Tanafer / SWO Pumps & Equipment To Tanafer / SWO Pumps & Equipment To Tanafer / To Ta	ECOSTS Size 13.38" 9.578" 5.1/2" 2.875 2.875 Analyzers ction s, TAC	Feet 1,340 4,190 121,790 110,500 11	\$35.00 \$ 25.00 \$25.00 \$25.00 \$ 5.85	31050 ACCT CODE 31001 31101 31102 31103 31106 31106	\$25,000 \$104,750 \$25,000 \$30 \$30 \$17,650 \$2,285,547	32044 32045 32045 32102 32102 32103 32104 32106 32106 32106 32107 32118 32112 32112 32113 32114 32112 32112 32113 32123 32123 32124 32127 327 327 327 327 327 327 327 327 327 3	\$6,173,660 COMPLETION - 321XX \$544,750 \$66,339 \$15,000 \$42,000 \$42,000 \$51,000 \$51,000 \$51,000 \$51,000 \$51,000 \$51,000 \$51,000 \$51,000 \$51,000 \$51,000 \$51,000 \$51,000 \$51,000 \$50,000	35101 33102 33103 33102 33103 33103 33104 33105 33106 33107 33113 33114 33115 33116 33117 33118 33117 33118 33123 33123 33123 33123	\$90,000 \$90,000 \$90,000 \$125,000 \$125,000 \$21,000 \$21,000	\$0,241,557 TOTAL \$67,900 \$104,750 \$104,750 \$30 \$30,350 \$40,000 \$50,000 \$42,000 \$42,000 \$50,0
NON-Op brilling intangible Pipeline Installation / Interconnect TOTAL INTAN TANGIBL Conductor Surface Casing Surface Casing Surface Casing Surface Casing Surface Casing I Liner Production Casing / Liner Production Casing / Liner Production Casing / Liner Casing Tie Back Uner Hanger Assembly Tubing Uner Hanger Assembly Tubing Tubing Production Casing Surface Wellhead Equipment Pumping full Prime Mover / Base Rods / Pony Rods / Sinker Bars Artificial Lit Orbor - Cas Lit Wellhead Equipment Completions Tranks / Tank Steps / Stalra Gas Treating / Dehydration Equipmen Separation Equipment, Heater Treater Surface Pumpi Interconnect Piping / Manifolds / Head Prowlines / Connections / Valves Automation / Instruments / Controls / Electrical Equipment / Generators Compressor & Related Equipment Chemical Equipment / Lacr Unit Chemical Equipment / Pack-Prole Subsurface Equipment / Lacr Unit Chemical Equipment / Lacr Unit Chemica	ECOSTS Size 13.38" 9.578" 5.1/2" 2.875 2.875 Analyzers ction s, TAC	Feet 1,340 4,190 121,790 110,500 11	\$35.00 \$ 25.00 \$25.00 \$25.00 \$ 5.85	31050 ACCT CODE 31001 31101 31102 31103 31106 31106	\$25,000 \$104,750 \$25,000 \$30 \$30 \$17,650 \$2,285,547	32044 32045 32045 32102 32102 32103 32104 32106 32106 32106 32107 32118 32112 32112 32113 32114 32112 32112 32113 32123 32123 32124 32127 327 327 327 327 327 327 327 327 327 3	\$6,173,660 COMPLETION - 321XX \$544,750 \$544,750 \$15,000 \$11,000 \$42,000 \$2,000 \$510,000 \$2,000 \$35,868,748	35101 33102 33103 33102 33103 33103 33104 33105 33106 33107 33113 33114 33115 33116 33117 33118 33117 33118 33123 33123 33123 33123	\$90,000 \$90,000 \$90,000 \$125,000 \$125,000 \$21,000 \$21,000	\$0,241,557 TOTAL \$67,900 \$104,750 \$104,750 \$30 \$30,350 \$40,000 \$50,000 \$42,000 \$42,000 \$50,0
NON-Op brilling intangible Pipeline installation / Interconnect TOTAL INTAN TANGIBL Conductor Surface Casing Surface Casing Surface Casing Surface Casing Surface Casing Surface Casing I Liner Production Casing / Liner Production Casing / Liner Production Casing / Liner Production Casing / Liner Casing Tie Back Liner Hanger Assembly Tubing Tubing Tubing Surface Pumps Filters Surface Pumps Filters Surface Surfac	ECOSTS Size 13.38" 9.58" 5.1/2" 5.1/2" 2.875 ders Analyzers ction 5, TAC	Feet 1,340 4,190 1 21,790 1 10,500 1 10,500 1 Jason Ec	\$35.00 \$ 25.00 \$25.00 \$ 5.85 \$ 5.85	31050 ACCT CODE 31901 31902 31102 31103 31104 31105	\$25,000 \$104,750 \$104,750 \$25,000 \$25,000 \$2,255,547 Title: President	32044 32045 32045 32107 32102 32103 32108 32108 32109 32108 32108 32118 32112 32114 32114 32116 32116 32117 32116 32117 32118 32128	\$6,173,660 COMPLETION - 321XX \$544,750 \$566,339 \$15,000 \$42,000 \$42,000 \$51,900 \$50,0	35101 33102 33103 33102 33103 33103 33104 33105 33106 33107 33113 33114 33115 33116 33117 33118 33117 33118 33123 33123 33123 33123	\$90,000 \$90,000 \$90,000 \$125,000 \$125,000 \$21,000 \$21,000	\$0,241,557 TOTAL \$67,900 \$104,750 \$104,750 \$30 \$30,350 \$40,000 \$50,000 \$42,000 \$42,000 \$50,0
NON-Op Drilling Intangible Pipeline Installation / Interconnect TOTAL INTAN TANGIBL Conductor Surface Casing Surface Casing Surface Casing Surface Casing Surface Casing / Liner And Intermediate Casing / Liner Production Casing / Liner Production Casing / Liner Production Casing / Liner Casing Tie Back Liner Hanger Assembly Tubing Tubing Tubing Surface Form of Surface Wellhead Equipment Pumping luft Prime Mover / Base Rods / Pony Rods / Sinker Bars Artificial Lift Orier - Cas Lift Wellhead Equipment Casing Equipment Carbon Surface Pumps Filters Surface Pumps Filters Surface Pumps Filters Surface Pumps Filters Surface Surface Form of Surface Surface Pumps Filters Surface Surface Surface Pumps Filters Surface Fourpment Flow Filters Fourpment Fourpment Filters Subsurface Equipment Fourpment Filters Subsurface Equipment Fourpment Filter Subsurface Equipment Filter Filt	ECOSTS Size 13.38" 9.58" 5.1/2" 5.1/2" 2.875 ders Analyzers ction 9, TAC SIBLE COSTS LL COSTS	Jason Ed	\$35.00 \$ 25.00 \$25.00 \$ 5.85 \$ 6.85	31050 ACCT CODE 31901 31101 31102 31103 31104 31105	\$25,000 \$104,750 \$25,000 \$25,000 \$25,000 \$2,265,547 Title: President rds incurred.	32044 32045 32045 32107 32102 32103 32108 32108 32109 32108 32108 32118 32112 32114 32114 32116 32116 32117 32116 32117 32118 32128	\$6,173,660 COMPLETION - 321XX \$544,750 \$544,750 \$15,000 \$11,000 \$42,000 \$2,000 \$510,000 \$2,000 \$35,868,748	35101 33102 33103 33102 33103 33103 33104 33105 33106 33107 33113 33114 33115 33116 33117 33118 33117 33118 33123 33123 33123 33123	\$90,000 \$90,000 \$90,000 \$125,000 \$125,000 \$21,000 \$21,000	\$0,241,557 TOTAL \$67,900 \$104,750 \$104,750 \$30 \$30,350 \$40,000 \$50,000 \$42,000 \$42,000 \$50,0
NON-Op brilling intangible Pipeline Installation / Interconnect TOTAL INTAN TANGIBL Conductor Surface Casing Surface Casing Surface Casing Surface Casing Surface Casing Surface Casing I Liner Production Casing / Liner Production Casing / Liner Casing Tel Back Liner Hanger Assembly Tubing Uner Hanger Assembly Tubing Tubing Tubing Tubing From Nords / Sinker Bars Artifical Lift Other - Cas Lift Wellhead Equipment Polymping Juff Prime Mover / Base Rods / Pony Rods / Sinker Bars Artifical Lift Other - Cas Lift Wellhead Equipment Casing Equipment Gas Treating / Dehydration Equipment Gas Treating / Dehydration Equipment Saration Equipment, Heater Treater Surface Pumps Buildings Interconnect Piping / Manifolds / Head Flowlines / Connections / Valves Automation / Instruments / Controls / Electrical Equipment / Caertonic Production Flowlines / Cannections / Valves Automation / Instruments / Controls / Compressor & Related Equipment Chemical Equipment / Caertonic Production Chemical Equipment / Lact Unit Chemical Equipment / Lact Unit Chemical Equipment / Packer, Plug Safety / Eli & S. Equipment Rown On Op Drilling Intangible Transfer/SWD Pumps & Equipment Bullianeous Contingency Costs TOTAL TAINC Prepared by Total AFE is only an estimate. By returning one Extra Expense Insurance	Size 13.38" 9.56" 5.1/2" 5.1/2" 2.875 ders Analyzers ction 9, TAC	Jason Ec	\$35.00 \$ 25.00 \$25.00 \$25.00 \$5 5.85	31050 ACCT CODE 31101 31102 31103 31104 31105 31106 31107	\$67,900 \$104,750 \$104,750 \$25,000 \$2,000 \$197,650 \$2,285,647 Title: President ds incurred.	32044 32045 32045 32107 32102 32103 32108 32108 32109 32108 32108 32118 32112 32114 32114 32116 32116 32117 32116 32117 32118 32128	\$6,173,660 COMPLETION - 321XX \$544,750 \$566,339 \$15,000 \$42,000 \$42,000 \$51,900 \$50,0	35101 33102 33103 33102 33103 33103 33104 33105 33106 33107 33113 33114 33115 33116 33117 33118 33117 33118 33123 33123 33123 33123	\$90,000 \$90,000 \$90,000 \$125,000 \$125,000 \$21,000 \$21,000	\$0,241,557 TOTAL \$67,900 \$104,750 \$104,750 \$30 \$30,350 \$40,000 \$50,000 \$42,000 \$42,000 \$50,0
NON-Op Drilling Intangible Pipeline Installation / Interconnect TOTAL INTAN TANGIBL Conductor Surface Casing Surface Casing Surface Casing Surface Casing Surface Casing / Liner And Intermediate Casing / Liner Production Casing / Liner Production Casing / Liner Production Casing / Liner Casing Tie Back Liner Hanger Assembly Tubing Tubing Tubing Surface Form of Surface Wellhead Equipment Pumping luft Prime Mover / Base Rods / Pony Rods / Sinker Bars Artificial Lift Orier - Cas Lift Wellhead Equipment Casing Equipment Carbon Surface Pumps Filters Surface Pumps Filters Surface Pumps Filters Surface Pumps Filters Surface Surface Form of Surface Surface Pumps Filters Surface Surface Surface Pumps Filters Surface Fourpment Flow Filters Fourpment Fourpment Filters Subsurface Equipment Fourpment Filters Subsurface Equipment Fourpment Filter Subsurface Equipment Filter Filt	Size 13.38" 9.56" 5.1/2" 5.1/2" 2.875 ders Analyzers ction 9, TAC	Jason Ec	\$35.00 \$ 25.00 \$25.00 \$25.00 \$5 5.85	31050 ACCT CODE 31101 31102 31103 31104 31105 31106 31107	\$67,900 \$104,750 \$104,750 \$25,000 \$2,000 \$197,650 \$2,285,647 Title: President ds incurred.	32044 32045 32045 32107 32102 32103 32108 32108 32109 32108 32108 32118 32112 32114 32114 32116 32116 32117 32116 32117 32118 32128	\$6,173,660 COMPLETION - 321XX \$544,750 \$566,339 \$15,000 \$42,000 \$42,000 \$51,900 \$50,0	35101 33102 33103 33102 33103 33103 33104 33105 33106 33107 33113 33114 33115 33116 33117 33118 33117 33118 33123 33123 33123 33123	\$90,000 \$90,000 \$90,000 \$125,000 \$125,000 \$21,000 \$21,000	\$0,241,557 TOTAL \$67,900 \$104,750 \$104,750 \$30 \$30,350 \$40,000 \$50,000 \$42,000 \$42,000 \$50,0
NON-Op brilling intangible Pipeline Installation / Interconnect TOTAL INTAN TANGIBL Conductor Surface Casing Surface Casing Surface Casing Surface Casing Surface Casing Surface Casing I Liner Production Casing / Liner Production Casing / Liner Casing Tel Back Liner Hanger Assembly Tubing Uner Hanger Assembly Tubing Tubing Tubing Tubing From Nords / Sinker Bars Artifical Lift Other - Cas Lift Wellhead Equipment Polymping Juff Prime Mover / Base Rods / Pony Rods / Sinker Bars Artifical Lift Other - Cas Lift Wellhead Equipment Casing Equipment Gas Treating / Dehydration Equipment Gas Treating / Dehydration Equipment Saration Equipment, Heater Treater Surface Pumps Buildings Interconnect Piping / Manifolds / Head Flowlines / Connections / Valves Automation / Instruments / Controls / Electrical Equipment / Caertonic Production Flowlines / Cannections / Valves Automation / Instruments / Controls / Compressor & Related Equipment Chemical Equipment / Caertonic Production Chemical Equipment / Lact Unit Chemical Equipment / Lact Unit Chemical Equipment / Packer, Plug Safety / Eli & S. Equipment Rown On Op Drilling Intangible Transfer/SWD Pumps & Equipment Bullianeous Contingency Costs TOTAL TAINC Prepared by Total AFE is only an estimate. By returning one Extra Expense Insurance	Size 13.38" 9.56" 5.1/2" 5.1/2" 2.875 ders Analyzers ction 9, TAC	Jason Erc Jason Erc	\$35.00 \$ 25.00 \$25.00 \$25.00 \$5 5.85	31050 ACCT CODE 31101 31102 31103 31104 31105 31106 31107	\$67,900 \$104,750 \$104,750 \$25,000 \$2,000 \$197,650 \$2,285,647 Title: President ds incurred.	32044 32045 32045 32107 32102 32103 32108 32108 32109 32108 32108 32118 32112 32114 32114 32116 32116 32117 32116 32117 32118 32128	\$6,173,660 COMPLETION - 321XX \$544,750 \$566,339 \$15,000 \$42,000 \$42,000 \$51,900 \$50,0	35101 33102 33103 33102 33103 33103 33104 33105 33106 33107 33113 33114 33115 33116 33117 33118 33117 33118 33123 33123 33123 33123	\$90,000 \$90,000 \$90,000 \$125,000 \$125,000 \$21,000 \$21,000	\$0,241,557 TOTAL \$67,900 \$104,750 \$104,750 \$30 \$30,350 \$40,000 \$50,000 \$42,000 \$42,000 \$50,0
NON-Op brilling intangible Pipeline Installation / Interconnect TOTAL INTAN TANGIBL Conductor Surface Casing Surface Casing Surface Casing Surface Casing Surface Casing I Liner Production Casing / Liner Production Casing / Liner Casing Tie Back Liner Hanger Assembly Tubing Uner Hanger Assembly Tubing Tubing From Year Surface Wellhead Equipment Pumping full Prime Mover / Base Rods / Pony Rods / Sinker Bars Artifical Litt Cher - Cas Lit Wellhead Equipment Completions Tranks / Tank Steps / South Ges Treating / Oeltydration Equipment Separation Equipment / Generation Separation Equipment / Separation Sep	Size 13.38" 9.56" 5.1/2" 5.1/2" 2.875 ders Analyzers ction 9, TAC	Jason Ec	\$35.00 \$ 25.00 \$25.00 \$25.00 \$5 5.85	31050 ACCT CODE 31101 31102 31103 31104 31105 31106 31107	\$67,900 \$104,750 \$104,750 \$25,000 \$2,000 \$197,650 \$2,285,647 Title: President ds incurred.	32044 32045 32045 32107 32102 32103 32108 32108 32109 32108 32108 32118 32112 32114 32114 32116 32116 32117 32116 32117 32118 32128	\$6,173,660 COMPLETION - 321XX \$544,750 \$566,339 \$15,000 \$42,000 \$42,000 \$51,900 \$50,0	35101 33102 33103 33102 33103 33103 33104 33105 33106 33107 33113 33114 33115 33116 33117 33118 33117 33118 33123 33123 33123 33123	\$90,000 \$90,000 \$90,000 \$125,000 \$125,000 \$21,000 \$21,000	\$0,241,557 TOTAL \$67,900 \$104,750 \$104,750 \$30 \$30,350 \$40,000 \$50,000 \$42,000 \$42,000 \$50,0

EXHIBIT

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_	W	ELL COST EST	IMATE				AFE NO. 019003	
WELL NAME: FIELD NAME: LOCATION: COUNTY/ST:	Cable 19- 2 sec. late	35-16 1H		DATE: START DATE: COMPLETE DATE:	2/14/19		019003	
OBJECTIVE:	Lea / NM Wolfcam	A		ORIGINAL: X SUPPLEMENT:				
INTANGIBLE COSTS	ACCT	DRILLING - 310XX	ACCT CODE	COMPLETION - 320XX	ACCT	FACILITIES - 330XX	TOTAL	
Legal Fees / Title Opinion Surveys / Staking / Permits / Bonds	31001 31002	\$500 \$2,500	32001 32002	dra verna and strong a	33001	SSUAA	\$500	
ROW / Surface Damages Roads & Location / Reserve Pit - Construction	31003		32003	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	33002		\$2,500 \$0	
Roads & Location / Reserve Pit - Reclaimation	31004 31005	\$75,678	32004 32005	\$0			\$75,678	
Frac Pond Gate Guard	31005 31006	and the second second	32006	CARRELL CO.			\$0	
Mouse / Rathole / Conductor	31006		32007	\$7,500			\$7,500 \$0	
Mobilization / Demobilization Drilling - Daywork	31008 31009	\$116,667 \$513,552	32008	Water Street Street Street			\$116,667	
Drilling - Footage	31010	\$313,332		STATE OF STA			\$513,552 \$0	
Drilling - Turnkey Completion / Snubbing / Workover Unit	31011 31012		32009	Market Market (Market 11)			\$0	
Trailer House / Communications Drill Bits	31013	\$15,339	32010	\$32,000 \$39,255			\$32,000 \$54,594	
Directional Equipment / Gyro Surveys	31014 31015	\$80,000 \$206,435	32011 32012	THE STREET			000,082	
Downhole Tool / Stabilization Rental Mud / Chemicals	31016	Takes his second second	32013	\$33,000			\$206,435 \$33,000	
Fuel / Power	31017 31018	\$83,884 \$113,681	32014 32015	\$27,000 \$13,295			\$110,884	
Water Supply Well, equipment Water / Water Hauling	31019		32016				\$126,976	
Offsite Water & Cuttings Disposal	31020 31021	\$51,108	32017 32018	\$992,000 \$21,000			\$992,000	
Transportation / Hauling Inspection / Tubular Testing	31022	\$187,000	32019	921,000			\$72,108 \$187,000	
Laydown Machine / Casing Crew / Tongs	31023 31024	\$29,500 \$14,476	32020 32021	\$29,603			\$29,500 \$44,079	
Cementing, Float Equipment & Services Mud Logging	31025	\$50,000	32022	\$114,000			\$164,000	
Logging - Open Hole	31026 31027	\$38,623	32023	AND DESCRIPTION OF THE PARTY OF			\$38,623 \$0	
Logging - Cased Hole Coring & Analysis, Drill Stem Test	31028	ALENO WIND	32024	\$30,000			\$30,000	
Perforating	31029 31030		32025	\$336,818			\$0	
Wireline / Slickline Services Equipment Rental	31031		32026	YEAR OF STREET SHOWS IN CASE OF			\$336,818 \$0	
Pumping Services/Rental	31032 31033	\$77,776 \$127,394	32027 32028	\$165,909			\$243,685	
Acidizing & Fracturing 2,000##n SW.W/ CnF Coil Tubing Unit 2,500 gpf	31034		32029	\$3,562,273			\$3,562,273	
Flow Testing, Swabbing	31035 31036		32030 32031	\$147,000 \$104,523			\$147,000	
Fishing / Sidetrack Services Nipple Up / BOPE Testing	31037		32032	NAME OF TAXABLE PARTY.			\$104,523 \$0	
Overhead	31038 31039		32033 32034	\$7,500			\$7,500	
Wellsite Consulting Services/Supervision Engineering / Geological / Lab ServicTracers and diagnostics	31040 31041	\$152,593	32035	\$118,364	33003		\$270,957	
Roustabout / Contract Labor	31041	\$22,720	32036 32037	\$52,000 \$25,000	33004		\$52,000	
Welding Services	31043 31044	San State of the last	32038	\$5,000			\$47,720 \$5,000	
Miscellaneous P&A Costs	31045	\$10,000	32039 32040	\$10,000	33005 33006		\$20,000 \$0	
Safety / EH&S	31046 31047		32041 32042	66.600				
5% Contingency (8% Taxes on Casing included in casing cost) NON-Op Drilling Intangible	31048	\$98,471	32043	\$6,636 \$293,984	33007		\$6,636 \$392,455	
no a series of the series of t	31049						10021100	
Pipeline Installation / Interconnect			32044	50	22000			
Pipeline Installation / Interconnect TOTAL INTANGIBLE COSTS	31050	\$2,067,897	32044 32045	\$6,173,660	33008	\$0	\$8,241,557	
TOTAL INTANGIBLE COSTS TANGIBLE COSTS	31050 ACCT		32045	\$6,173,660	ACCT	\$0	\$8,241,557	
TOTAL INTANGIBLE COSTS TANGIBLE COSTS Size Feet SiFt	31050	\$2,067,897 DRILLING - 311X	32045	\$6,173,660				
TOTAL INTANGIBLE COSTS TANGIBLE COSTS Conductor Size Feet S/Ft 13.3/8" 1940 51500	ACCT CODE 31101	PRILLING - 311X	32045	\$6,173,660	ACCT	FACILITIES -	\$8,241,557	
TOTAL INTANGIBLE COSTS TANGIBLE COSTS Conductor Surface Casing 13 3/8" 1,840 \$35.00 151 Intermediate Casing / Liner 9 5/8" 4,90 \$25.00	31050 ACCT CODE 31101 31102 31103		32045	\$6,173,660	ACCT	FACILITIES -	\$8,241,557 TOTAL \$67,900	
TOTAL INTANGIBLE COSTS TANGIBLE COSTS Conductor Surface Casing 13 3/8" 1,946 \$35.00 15t Intermediate Casing / Liner 9 5/6" 4,190 \$ 25.00	31050 ACCT CODE 31101 31102	PRILLING - 311X	ACCT CODE	\$6,173,660 COMPLETION - 321XX	ACCT	FACILITIES -	\$8,241,557 TOTAL \$67,900 \$104,750 \$0	
TOTAL INTANGIBLE COSTS TANGIBLE COSTS Conductor Surface Casing 4 Liner 13 3/8" 1,946 \$35.00 15t Intermediate Casing / Liner 70d Intermediate Casing / Liner Production Casing / Liner Casing 7 Ease 5 1/2" 21,790 \$25.00 5 1/2" 21,790 \$25.00	31050 ACCT CODE 31101 31102 31103	PRILLING - 311X	32045	\$6,173,660	ACCT	FACILITIES -	\$8,241,557 TOTAL \$67,900 \$104,750	
TOTAL INTANGIBLE COSTS TANGIBLE COSTS Conductor Surface Casing Surface Casing / Liner And Intermediate Casing / Liner Production Casing / Liner Casing Tie Back Liner Hanger Assembly Tubing 2,875 10,500 \$ 5.55	31050 ACCT CODE 31101 31102 31103	PRILLING - 311X	32045 ACCT CODE 32101 32102 32103	\$6,173,660 COMPLETION - 321XX \$544,750	ACCT	FACILITIES -	\$8,241,557 TOTAL \$67,900 \$104,750 \$0 \$544,750	
TOTAL INTANGIBLE COSTS TANGIBLE COSTS Conductor Surface Casing 1st Intermediate Casing / Liner Production Casing / Liner Production Casing / Liner Production Casing / Liner Liner Hanger Assembly Tubing 2.875	31050 ACCT CODE 31101 31102 31103 31104	S67,900 \$104,750	32045 ACCT CODE 32101 32102	\$6,173,660 COMPLETION - 321XX	ACCT	FACILITIES -	\$8,241,557 TOTAL \$67,900 \$104,750 \$0 \$544,750	
TOTAL INTANGIBLE COSTS TANGIBLE COSTS Conductor Surface Casing 1st Intermediate Casing / Liner Production Casing / Liner Production Casing / Liner Casing Te Back Liner Hanger Assembly Tubing Casing Te Quipment Liner Hanger Assembly Tubing University Casing Tequipment Production Casing / Liner S 1/2" 21,790 \$25.00 2.875 10,500 \$ 5.85 Casing Equipment Liner Hanger Assembly Tubing University Casing Tequipment Production Casing / Liner S 1/2" 21,790 \$25.00 S 5.85 Casing Equipment - OHMS / Etc. Wellhead Equipment Wellhead Equipment	31050 ACCT CODE 31101 31102 31103	PRILLING - 311X	32045 ACCT CODE 32101 32102 32103 32104 32105 32106	\$6,173,660 COMPLETION - 321XX \$544,750	ACCT	FACILITIES -	\$8,241,557 TOTAL \$67,900 \$104,750 \$544,750 \$544,750	
TOTAL INTANGIBLE COSTS TANGIBLE COSTS Conductor Surface Casing Surface Casing / Liner 2nd Intermediate Casing / Liner 2nd Intermediate Casing / Liner Production Casing / Liner Casing Te Back Liner Hanger Assembly Tubing Casing Equipment - OHMS / Etc. Wellhead Equipment Pumping Unit / Prime Mover / Base Rods / Pony Rods / Sinker Bars	31050 ACCT CODE 31101 31102 31103 31104	S67,900 \$104,750	32045 ACCT CODE 32101 32102 32103 32104 32105	\$6,173,660 COMPLETION - 321XX \$544,750 \$66,339	ACCT CODE	FACILITIES -	\$8,241,557 TOTAL \$67,900 \$104,750 \$0 \$544,750 \$66,339 \$0 \$40,000 \$0	
TOTAL INTANGIBLE COSTS TANGIBLE COSTS Conductor Surface Casing Surface Casing / Liner 2nd Intermediate Casing / Liner 3 5/6" 4,190 \$ 25.00 5 1/2" 21,790 \$ 25.00 2.875 10,500 \$ 5.95 Wellhead Equipment Pumping Unit / Prime Mover / Base Rods / Pony Rods / Sinker Bars Artificial Lift Other - Gas Lift Wellhead Equipment Completions	31050 ACCT CODE 31101 31102 31103 31104	S67,900 \$104,750	32045 ACCT CODE 32101 32102 32103 32104 32105 32106 32107 32108 32109	\$6,173,660 COMPLETION - 321XX \$544,750 \$66,339 \$15,000 \$14,000	ACCT CODE 33101 33102 33103	FACILITIES -	\$8,241,557 TOTAL \$67,900 \$104,750 \$104,750 \$544,750 \$540,000 \$00 \$50 \$540,000	
TOTAL INTANGIBLE COSTS TANGIBLE COSTS Conductor Surface Casing 1 13 3/8" 1,940 \$35.00 15t Intermediate Casing / Liner Production Casing / Liner Size Feet \$/Ft 13 3/8" 1,940 \$35.00 9 5/8" 4,190 \$25.00 \$ 5.25.00 \$ 5.25.00 Casing Te Quipment - OHMS / Etc. Wellhead Equipment Completions Tankin / Tank Strank Stress / Stairs Wellhead Equipment Completions Tanks / Tank Stress / Stairs	31050 ACCT CODE 31101 31102 31103 31104	S67,900 \$104,750	32045 ACCT CODE 32107 32102 32103 32104 32105 32106 32107 32108	\$6,173,660 COMPLETION - 321XX \$544,750 \$66,339 \$15,000	33101 33102 33103 33104	FACILITIES - 331XX	\$8,241,557 TOTAL \$67,900 \$104,750 \$0 \$544,750 \$0 \$544,750 \$0 \$40,000 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10	
TOTAL INTANGIBLE COSTS TANGIBLE COSTS Conductor Surface Casing Surface Casing / Liner Floduction Casing / Liner Production Casing / Liner Production Casing / Liner Production Casing / Liner Production Casing / Liner Surface Casing Te Back Liner Hanger Assembly Tubing Casing Te Back Liner Hanger Assembly Tubing Casing Equipment - OHMS / Etc. Wellhead Equipment Pumping Unit / Prime Mover / Base Rods / Pony Rods / Sinker Bars Artificial Lin Cher - Gas Lint Wellhead Equipment Completions Tanks / Tank Steps / Stairs Gas Treating / Dehydration Equipment Separation Equipment	31050 ACCT CODE 31101 31102 31103 31104	S67,900 \$104,750	32045 ACCT CODE 32101 32102 32103 32104 32105 32106 32107 32108 32106 32111 32112	\$6,173,660 COMPLETION - 321XX \$544,750 \$66,339 \$15,000 \$14,000	ACCT CODE 33101 33102 33103 33104 33105 33106	FACILITIES - 331XX 314X 586,000 564,000	\$8,241,557 TOTAL \$67,900 \$104,750 \$534,750 \$540,750 \$554,750 \$50,500 \$10,000	
TOTAL INTANGIBLE COSTS TANGIBLE COSTS Conductor Surface Casing Surface Casing Liner Surface Casing Liner 2nd Intermediate Casing Liner Production Casing Liner Casing Tie Back Liner Hanger Assembly Tubing Casing Equipment - OHMS Etc. Wellhead Equipment Pumping Unit Prime Mover Base Rods Pony Rods Sinker Bars Artificial Lift Other - Gas Lift Wellhead Equipment Completions Tanks Tank Steps Stairs Gas Treating Dehydration Equipment Separation Equipment, Heater Treater Surface Pumps	31050 ACCT CODE 31101 31102 31103 31104	S67,900 \$104,750	32045 ACCT CODE 32101 32102 32103 32104 32105 32106 32111 32112 32112 32113 32114	\$6,173,660 COMPLETION - 321XX \$544,750 \$66,339 \$15,000 \$14,000	33101 33102 33103 33104 33103 33104 33105 33106 33107	FACILITIES - 331XX 331XX 580,000 564,000 564,000	\$8,241,557 TOTAL \$67,900 \$104,750 \$544,750 \$544,750 \$540,000 \$40,000 \$540,000 \$540,000 \$540,000 \$540,000 \$540,000 \$540,000 \$540,000 \$550,000	
TOTAL INTANGIBLE COSTS TANGIBLE COSTS Conductor Surface Casing Surface Casing Liner Surface Casing Liner 2nd Intermediate Casing Liner 2nd Intermediate Casing Liner Production Casing Liner Production Casing Liner Casing Tie Back Liner Hanger Assembly Tubing 2.875 10,500 \$ 5.85 Casing Equipment - OHMS / Etc. Wellhead Equipment Pumping Unit / Prime Mover / Base Rods / Pony Rods / Sinker Bars Artificial Lift Other - Cas Lift Wellhead Equipment Completions Tanks / Tank Steps / Stairs Gas Treading / Dehydration Equipment Separation Equipment, Heater Treater Surface Pumps Filters Filters Buildings	31050 ACCT CODE 31101 31102 31103 31104	S67,900 \$104,750	32045 ACCT CODE 32101 32102 32103 32104 32105 32106 32107 32108 32109 32109 32109 32101 32111 32112 32113 32114 32115	\$6,173,660 COMPLETION - 321XX \$544,750 \$66,339 \$15,000 \$14,000	33101 33102 33103 33104 33105 33106 33107 33108 33108	FACILITIES - 331XX 314X 586,000 564,000	\$8,241,557 TOTAL \$67,900 \$104,750 \$544,750 \$544,000 \$40,000 \$40,000 \$41,000 \$42,000 \$42,000 \$42,000 \$56,000 \$58,000 \$58,000 \$58,000 \$58,000 \$58,000 \$58,000	
TOTAL INTANGIBLE COSTS TANGIBLE COSTS Conductor Surface Casing Surface Casing / Liner And Intermediate Casing / Liner Production Casing / Liner Production Casing / Liner Production Casing / Liner Casing Te Back Liner Hanger Assembly Tubing Casing Equipment - OHMS / Etc. Wellhead Equipment Pumping Unit / Prime Mover / Base Rode / Pony Rode / Sinker Bars Artificial Lift Other - Gas Lift Wellhead Equipment Wellhead Equipment Tanks / Tank Steps / Stairs Gas Treating / Dehydration Equipment Separation Equipment Separation Equipment Heater Treater Surface Pumps Filters Buildings Interconnect Piping / Manifolds / Headers	31050 ACCT CODE 31101 31102 31103 31104	S67,900 \$104,750	32045 ACCT CODE 32101 32102 32103 32104 32105 32106 32107 32108 32109 32109 32109 32101 32111 32112 32113 32114 32115 32116	\$6,173,660 COMPLETION - 321XX \$544,750 \$66,339 \$15,000 \$14,000	ACCT CODE 33101 33102 33103 33104 33105 33106 33107 33108 33109 331109	FACILITIES - 331XX 331XX 580,000 584,000 580,000 5125,000	\$8,241,557 TOTAL \$67,900 \$104,750 \$104,750 \$544,750 \$544,750 \$0 \$1,000 \$1,000 \$20,000 \$42,000 \$42,000 \$54,000 \$54,000 \$54,000 \$54,000 \$55,000 \$55,000 \$55,000 \$55,000 \$55,000	
TOTAL INTANGIBLE COSTS TANGIBLE COSTS Conductor Surface Casing Surface Casing / Liner And Intermediate Casing / Liner Production Casing / Liner Casing Te Back Liner Hanger Assembly Tubing Casing Equipment - OHMS / Etc. Wellhead Equipment Pumping Unit / Prime Mover / Base Rods / Pony Rods / Sinker Bars Artificial Lift Other - Gas Lift Wellhead Equipment Completions Tanks / Tank Steps / Stairs Gas Treating / Dehydration Equipment Separation Equipment Heater Treater Surface Pumps Filbers Buildings Interconnect Piping / Manifolds / Headers Flowlines / Connections / Valves Automation / Instruments / Controls / Analyzers	31050 ACCT CODE 31101 31102 31103 31104	S67,900 \$104,750	32045 ACCT CODE 32101 32102 32103 32104 32105 32106 32117 32112 32113 32114 32115 32116 32117 32117	\$6,173,660 COMPLETION - 321XX \$544,750 \$66,339 \$15,000 \$14,000	ACCT CODE 33101 33102 33103 33104 33106 33106 33107 33103 33110 33111 33111	FACILITIES - 331XX 331XX 580,000 584,000 580,000 5125,000	\$8,241,557 TOTAL \$67,900 \$104,750 \$104,750 \$540,000 \$0 \$140,000 \$40,000 \$42,000 \$42,000 \$540,000 \$540,000 \$540,000 \$540,000 \$550,000 \$550,000 \$550,000 \$550,000 \$550,000 \$550,000 \$550,000 \$550,000 \$550,000	
TOTAL INTANGIBLE COSTS TANGIBLE COSTS Conductor Surface Casing Surface Casing Liner Stat Intermediate Casing / Liner 2nd Intermediate Casing / Liner Production Casing / Liner 2nd Intermediate Casing / Liner Production Casing / Liner Casing Tie Back Liner Hanger Assembly Tubing Casing Equipment - OHMS / Etc. Walthead Equipment Pumping Unit / Prime Mover / Base Rods / Pony Rods / Sinker Bars Artificial Lift Other - Cas Lift Wellhead Equipment Completions Tanks / Tank Steps / Stairs Gas Treating / Dehydration Equipment Separation Equipment, Heater Treater Surface Pumps Filters Buildings Interconnect Piping / Manifolds / Headers Flowlines / Connections / Valves Automation / Instruments / Controls / Analyzers Electrical Equipment (Sontrols / Analyzers Electrical Equipment / Sontrols / Analyzers	31050 ACCT CODE 31101 31102 31103 31104	S67,900 \$104,750	32045 ACCT CODE 32101 32102 32103 32104 32105 32106 32117 32112 32113 32114 32115 32116 32117 32118 32118 32119	\$6,173,660 COMPLETION - 321XX \$544,750 \$66,339 \$15,000 \$14,000	33101 33103 33103 33103 33104 33106 33106 33107 33109 331103	FACILITIES - 331XX 331XX 580,000 584,000 580,000 5125,000	\$8,241,557 TOTAL \$67,900 \$104,750 \$544,750 \$544,000 \$10,000 \$14,000 \$42,000 \$54,000 \$54,000 \$54,000 \$55,000 \$55,000 \$55,000 \$55,000 \$55,000 \$55,000	
TOTAL INTANGIBLE COSTS TANGIBLE COSTS Conductor Surface Casing Surface Casing Liner Surface Casing Liner 2nd Intermediate Casing Liner 2nd Intermediate Casing Liner Production Casing Liner Production Casing Liner Production Casing Liner Casing Tie Back Liner Hanger Assembly Tubing Casing Equipment - OHMS Etc. Liner Hanger Assembly Wellhead Equipment Pumping Unit Prime Mover Base Rods Pony Rods Sinker Bars Artificial Lift Other - Cas Lift Wellhead Equipment Completions Tanks Tank Steps Stairs Gas Treading Dehydration Equipment Separation Equipment, Heater Treater Surface Pumps Filters Buildings Interconnect Piping Manifolds Headers Flowlines Connections Valves Automation Instruments Controls Analyzers Electrical Equipment (Generators Compressor & Related Equipment Metering Equipment, Leaf Unit	31050 ACCT CODE 31101 31102 31103 31104	S67,900 \$104,750	32045 ACCT CODE 32101 32102 32103 32104 32105 32106 32107 32108 32109 32109 32101 32111 32112 32113 32114 32115 32117 32114 32115 32117 32117 32118 32119 32120 32121	\$6,173,660 COMPLETION - 321XX \$544,750 \$66,339 \$15,000 \$14,000	33101 33102 33103 33104 33106 33106 33107 33109 33111 33111 33111 33111 33111 33111 33111 33111 33111	\$80,000 \$84,000 \$54,000 \$125,000 \$55,000	\$8,241,557 TOTAL \$67,900 \$104,750 \$544,750 \$544,750 \$0 \$14,000 \$14,000 \$14,000 \$14,000 \$14,000 \$54,000 \$55,000 \$55,000 \$55,000 \$55,000 \$55,000 \$55,000 \$55,000 \$55,000 \$55,000 \$55,000 \$55,000 \$55,000 \$55,000 \$55,000 \$55,000 \$55,000 \$55,000 \$55,000 \$55,000	
TOTAL INTANGIBLE COSTS TANGIBLE COSTS Conductor Surface Casing Surface Casing / Liner And Intermediate Casing / Liner Production Casing / Liner Casing Te Back Liner Hanger Assembly Tubing Casing Sequipment - OHMS / Etc. Liner Hanger Assembly Tubing Casing Equipment - OHMS / Etc. Wellhead Equipment Pumping Unit / Prime Mover / Base Rods / Pony Rods / Sinker Bars Artificial Lift Other - Gas Lift Wellhead Equipment Wellhead Equipment Wellhead Equipment Sas Treating / Dehydration Equipment Separation Equipment, Heater Treater Surface Pumps Filters Buildings Interconnect Piping / Manifolds / Headers Flowlines / Connections / Valves Automation / Instruments / Controls / Analyzers Electrical Equipment / Generators Compressor & Related Equipment Metering Equipment / LACT Unit Chemical Equipment / Controls / Compressor & Related Equipment Metering Equipment / LACT Unit Chemical Equipment / Controls / Committed in Metering Equipment / Compressor & Related Equipment Metering Equipment / Controls / Compressor & Related Equipment Metering Equipment / Controls / Compressor & Related Equipment Metering Equipment / Controls / Compressor & Related Equipment Metering Equipment / Cathodie Protection	31050 ACCT CODE 31101 31102 31103 31104	S67,900 \$104,750	32045 ACCT CODE 32101 32102 32103 32104 32105 32106 32107 32108 32109 32109 32101 32111 32112 32111 32112 32111 32112 32112 32112 32112 32121 32121 32121 32122 32123	\$6,173,660 COMPLETION - 321XX \$544,750 \$66,339 \$15,000 \$42,000	33101 33102 33103 33103 33104 33105 33106 33107 33110 33111 33112 33113 33114	FACILITIES - 331XX 331XX 580,000 584,000 580,000 5125,000	\$8,241,557 TOTAL \$67,900 \$104,750 \$104,750 \$544,750 \$540,000 \$70 \$14,000 \$14,000 \$14,000 \$14,000 \$14,000 \$14,000 \$14,000 \$14,000 \$14,000 \$14,000 \$10	
TOTAL INTANGIBLE COSTS TANGIBLE COSTS Conductor Surface Casing Surface Casing / Liner 2nd Intermediate Casing / Liner 3 5/6" 4,190 \$ 25.00 5 1/2" 21,790 \$ 25.00 2.875 10,500 \$ 5.95 Casing Teal Back Liner Hanger Assembly Tubing 2.875 10,500 \$ 5.95 Author John Voods / Sinker Bars Artificial Lift Other - Gas Lift Wellhead Equipment Wellhead Equipment Ompletions Tanks I Tank Steps / Sains 3 Trandra J Dehydration Equipment Separation Equipment, Heater Treater Surface Pumps Fibers Buildings Fibers Buildings Authoration / Instruments / Controls / Analyzers Electrical Equipment / Generators Compressor & Related Equipment Metering Equipment / Packer, Plugs, TAC Safety / El-85 Equipment	31050 ACCT CODE 31101 31102 31103 31104	S67,900 \$104,750	32045 ACCT CODE 32101 32102 32103 32104 32105 32106 32117 32118 32114 32114 32116 32116 32117 32118 32118 32119 32122 32123 32122 32122	\$6,173,660 COMPLETION - 321XX \$544,750 \$66,339 \$15,000 \$42,000	33101 33102 33103 33103 33103 33104 33105 33106 33107 33113 33114 33113 33114 33113 33114 33115 33117 33117	\$80,000 \$50,000 \$125,000 \$520,000	\$8,241,557 TOTAL \$67,900 \$104,750 \$104,750 \$544,750 \$540,000 \$50,000 \$40,000 \$40,000 \$42,000 \$42,000 \$54,000 \$54,000 \$550,000	
TOTAL INTANGIBLE COSTS TANGIBLE COSTS TANGIBLE COSTS Conductor Surface Casing Surface Casing Liner Stat Intermediate Casing / Liner 2nd Intermediate Casing / Liner Production Casing / Liner Casing Tie Back Liner Hanger Assembly Liner Hanger Liner Casing Tie Back Wellhead Equipment - OHMS / Etc. Wellhead Equipment Wellhead Equipment Base Rods / Pony Rods / Sinker Bars Artificial Lift Other - Cas Lift Wellhead Equipment Completions Tanks / Tank Steps / Stairs Sas Treating Dehydration Equipment Separation Equipment, Heater Treater Surface Pumps Filters Buildings Interconnect Piping / Manifolds / Headers Flowlines / Connections / Valves Automation / Instruments / Controls / Analyzers Electrical Equipment (Denerators Compressor & Related Equipment Metering Equipment, Leater Unit Chemical Equipment / Cathodic Protection Safety / EH&S Equipment Metering Equipment / Cathodic Protection Safety / EH&S Equipment Non-Op Drilling Inhangible	31050 ACCT CODE 31101 31102 31103 31104	S67,900 \$104,750	32045 ACCT CODE 32101 32102 32103 32104 32105 32106 32107 32108 32107 32108 321107 32118 32117 32118 32119 32122 32122 32122 32122 32122 32122 32122	\$6,173,660 COMPLETION - 321XX \$544,750 \$66,339 \$15,000 \$42,000	33101 33102 33103 33103 33103 33105 33106 33106 33110 33111 33111 33111 33111 33111 33111 33111	\$80,000 \$84,000 \$54,000 \$125,000 \$55,000	\$8,241,557 TOTAL \$67,900 \$104,750 \$540,750 \$500 \$10,000 \$11,000 \$11,000 \$11,000 \$11,000 \$11,000	
TOTAL INTANGIBLE COSTS TANGIBLE COSTS Conductor Surface Casing Surface Casing Liner Stat Intermediate Casing / Liner 2nd Intermediate Casing / Liner Production Casing / Liner Casing Casing / Liner Casing Tie Back Liner Hanger Assembly Tubing Liner Hanger Assembly Tubing	31050 ACCT CODE 31101 31102 31103 31104	S67,900 \$104,750	32045 ACCT CODE 32101 32102 32103 32104 32105 32106 32107 32108 32109 32116 32111 32112 32114 32115 32114 32115 32116 32117 32118 32119 32120 32121 32122 32123 32122 32123 32125 32125 32125	\$6,173,660 COMPLETION - 321XX \$544,750 \$66,339 \$15,000 \$42,000	ACCT CODE 33101 33102 33103 33104 33105 33109 33110 33113 33114 33113 33114 33117 33117 33117 33117 33117 33117 33117 33117 33117 33117 33117 33117 33117 33117 33117 33117 33117	\$80,000 \$50,000 \$125,000 \$520,000	\$8,241,557 TOTAL \$67,900 \$104,750 \$540,750 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$	
TOTAL INTANGIBLE COSTS TANGIBLE COSTS Conductor Surface Casing Surface Casing Liner 2nd Intermediate Casing / Liner 2nd In	31050 ACCT CODE 31101 31102 31103 31104 31105	\$104,750 \$25,000	32045 ACCT CODE 32101 32102 32103 32104 32105 32106 32107 32108 32110 32112 32111 32112 32113 32114 32115 32116 32117 32118 32119 32120 32121 32122 32123 32122 32122 32122 32122 32122 32122 32122	\$6,173,660 COMPLETION - 321XX \$544,750 \$66,339 \$15,000 \$42,000 \$514,000 \$52,000	33101 33102 33103 33103 33103 33104 33105 33106 33107 33111 33112 33113 33114 33114 33115 33117 33117 33117 33117 33117	\$80,000 \$50,000 \$125,000 \$520,000	\$8,241,557 TOTAL \$67,900 \$104,750 \$540,750 \$500 \$10,000 \$11,000 \$11,000 \$11,000 \$11,000 \$11,000	
TOTAL INTANGIBLE COSTS TANGIBLE COSTS Conductor Surface Casing Surface Casing Liner Surface Casing Liner 2nd Intermediate Casing Liner Production Casing Liner 2nd Intermediate Casing Liner Production Casing Liner Casing Tie Back Liner Hanger Assembly Tubing Casing Equipment - OHMS Etc. Liner Hanger Assembly Tubing Casing Equipment - OHMS Etc. Wellhead Equipment Pumping Unit Prime Mover Base Rods Pony Rods Sinker Bars Artificial Lift Other - Gas Lift Wellhead Equipment Completions Tanks Tank Steps Stairs Gas Treating Dehydration Equipment Separation Equipment, Heater Treater Surface Pump Filters Buildings Interconnect Piping Manifolds Headers Filters Surface Pump Filters Compressor & Related Equipment Metering Equipment, Leaft Unit Chemical Equipment, Cathodie Protection Softy EH&S Equipment Metering Equipment, Cathodie Protection Softy EH&S Equipment NoN-OP Drilling Intangible Transfer/SWD Pumps & Equipment TBD Miscellaneous Confineency Costs TOTAL TANGIBLE COSTS	31050 ACCT CODE 31101 31102 31103 31104	\$57,900 \$104,750 \$25,000	32045 ACCT CODE 32101 32102 32103 32104 32105 32107 32108 32107 32108 32107 32108 32107 32118 32111 32114 32115 32142 32120 32121 32122 32122 32122 32122 32122 32122 32122	\$6,173,660 COMPLETION - 321XX \$544,750 \$66,339 \$15,000 \$42,000 \$42,000 \$11,000 \$2,000 \$5,000	33101 33102 33103 33105 33105 33106 33106 33107 33110 33111 33112 33113 33114 33115 33117 33118 33119 33123 33123 33123 33123 33123 33123 33123 33123 33123	\$80,000 \$84,000 \$54,000 \$125,000 \$125,000 \$21,000 \$21,000	\$8,241,557 TOTAL \$67,900 \$104,750 \$544,750 \$544,000 \$40,000 \$40,000 \$42,000 \$50,000 \$42,000 \$50,000 \$54,000 \$50,000	
TOTAL INTANGIBLE COSTS TANGIBLE COSTS Conductor Surface Casing Surface Casing Liner 2nd Intermediate Casing / Liner 2nd In	31050 ACCT CODE 31101 31102 31103 31104 31105	\$104,750 \$25,000	32045 ACCT CODE 32101 32102 32103 32104 32105 32106 32107 32108 32110 32112 32111 32112 32113 32114 32115 32116 32117 32118 32119 32120 32121 32122 32123 32122 32122 32122 32122 32122 32122 32122	\$6,173,660 COMPLETION - 321XX \$544,750 \$66,339 \$15,000 \$42,000 \$514,000 \$52,000	ACCT CODE 33101 33102 33103 33103 33103 33103 33103 33103 33103 33113 33113 33114 33117 33117 33118 33117 33118 33122 33122 33122 33122	\$80,000 \$84,000 \$50,000 \$125,000 \$21,000 \$21,000 \$50,000 \$44,000 \$44,000 \$44,000	\$8,241,557 TOTAL \$67,900 \$104,750 \$540,750 \$540,750 \$0 \$10,750 \$0 \$10,900 \$1	
TOTAL INTANGIBLE COSTS TANGIBLE COSTS TANGIBLE COSTS Conductor Surface Casing Surface Casing / Liner 2nd Intermediate Casin	31050 ACCT CODE 31101 31102 31103 31104 31105	\$67,900 \$104,750 \$104,750 \$25,000 \$25,000 \$0 \$0 \$197,650 \$2,265,547	32045 ACCT CODE 32101 32102 32103 32104 32105 32106 32107 32108 32110 32112 32111 32112 32113 32114 32115 32116 32117 32118 32119 32120 32121 32122 32123 32122 32122 32122 32122 32122 32122 32122	\$6,73,660 COMPLETION - 321XX \$544,750 \$565,339 \$14,000 \$42,000 \$514,000 \$52,000 \$51,0	ACCT CODE 33101 33102 33103 33103 33103 33103 33103 33103 33103 33113 33113 33114 33117 33117 33118 33117 33118 33122 33122 33122 33122	\$80,000 \$84,000 \$54,000 \$125,000 \$125,000 \$21,000 \$21,000	\$8,241,557 TOTAL \$67,900 \$104,750 \$544,750 \$544,000 \$40,000 \$40,000 \$42,000 \$50,000 \$42,000 \$50,000 \$54,000 \$50,000	
TOTAL INTANGIBLE COSTS TANGIBLE COSTS TANGIBLE COSTS Conductor Surface Casing Surface Casing Liner 2nd Intermediate Casing / Liner 2nd Intermediate Casi	31050 ACCT CODE 31101 31102 31103 31104 31105	\$67,900 \$104,750 \$104,750 \$25,000 \$25,000 \$0 \$0 \$197,650 \$2,265,547	32045 ACCT CODE 32101 32102 32103 32104 32105 32106 32107 32108 32110 32112 32113 32114 32115 32114 32115 32116 32117 32118 32112 32121 32121 32122 32123 32122 32122 32122 32122 32122 32122 32122 32122	\$6,173,660 COMPLETION - 321XX \$544,750 \$66,339 \$14,000 \$42,000 \$514,000 \$2,000	ACCT CODE 33101 33102 33103 33103 33103 33103 33103 33103 33103 33113 33113 33114 33117 33117 33118 33117 33118 33122 33122 33122 33122	\$80,000 \$84,000 \$50,000 \$125,000 \$21,000 \$21,000 \$50,000 \$44,000 \$44,000 \$44,000	\$8,241,557 TOTAL \$67,900 \$104,750 \$540,750 \$540,750 \$0 \$10,750 \$0 \$10,900 \$1	
TOTAL INTANGIBLE COSTS TANGIBLE COSTS TANGIBLE COSTS Conductor Surface Casing Surface Casing Liner 2nd Intermediate Casing / Liner 2nd Surface Casing / East 2nd Surface Pumps 3nd Surface Casing / East 3nd Surface Casing / Eas	31050 ACCT CODE 31101 31102 31103 31104 31105	\$104,750 \$104,750 \$104,750 \$25,000 \$25,000 \$2,000 \$197,650 \$2,265,547 Tibe: President	32045 ACCT CODE 32101 32102 32103 32104 32105 32107 32108 32109 32108 32109 32109 32108 32111 32112 32113 32114 32115 32114 32115 32116 32117 32118 32119 32120 32121 32121 32121 32121 32121 32121 32121 32121 32121 32121 32121 32122 32123 32128 32128 32128 32128	\$6,173,660 COMPLETION - 321XX \$544,750 \$66,339 \$15,000 \$42,000 \$42,000 \$511,000 \$2,000 \$505,688,749 Date: 2/14/2019	ACCT CODE 33101 33102 33103 33104 33105 33106 33107 33110 33111 33112 33113 33114 33115 33117 33116 33117 33118 33117 33118 33119 33118 3318 33118 33118 33118 33118 33118 33118 33118 33118 33118 33118 331	\$80,000 \$84,000 \$50,000 \$125,000 \$21,000 \$21,000 \$50,000 \$44,000 \$44,000 \$44,000	\$8,241,557 TOTAL \$67,900 \$104,750 \$540,750 \$540,750 \$0 \$10,750 \$0 \$10,900 \$1	
TOTAL INTANGIBLE COSTS TANGIBLE COSTS Conductor Surface Casing Surface Casing Liner 2nd Intermediate Casing / Liner 2nd In	31050 ACCT CODE 31101 31102 31103 31104 31105	\$67,900 \$104,750 \$104,750 \$25,000 \$25,000 \$0 \$0 \$0 \$0 \$197,650 \$2,265,547 Title: President sts incurred.	32045 ACCT CODE 32101 32102 32103 32104 32105 32107 32108 32109 32108 32109 32109 32108 32111 32112 32113 32114 32115 32114 32115 32116 32117 32118 32119 32120 32121 32121 32121 32121 32121 32121 32121 32121 32121 32121 32121 32122 32123 32128 32128 32128 32128	\$6,173,660 COMPLETION - 321XX \$544,750 \$66,339 \$15,000 \$42,000 \$42,000 \$511,000 \$2,000 \$505,688,749 Date: 2/14/2019	ACCT CODE 33101 33102 33103 33104 33105 33106 33107 33110 33111 33112 33113 33114 33115 33117 33116 33117 33118 33117 33118 33119 33118 3318 33118 33118 33118 33118 33118 33118 33118 33118 33118 33118 331	\$80,000 \$84,000 \$50,000 \$125,000 \$21,000 \$21,000 \$50,000 \$44,000 \$44,000 \$44,000	\$8,241,557 TOTAL \$67,900 \$104,750 \$540,750 \$540,750 \$0 \$10,750 \$0 \$10,900 \$1	
TOTAL INTANGIBLE COSTS TANGIBLE COSTS TANGIBLE COSTS Conductor Surface Casing Surface Casing Liner 2nd Intermediate Casing / Liner 2nd Intervenient / Casing Equipment 2nd Intervenient / Controls / Analyzers 2nd Intervenient / Casing Intervenient / Controls / Analyzers 2nd Intervenient / Casing Intervenient / Casing Equipment / Casing Equipment / Casing Intervenient	31050 ACCT CODE 31101 31102 31103 31104 31105 31107 the ectual of the section of the sectio	\$87,900 \$104,750 \$104,750 \$25,000 \$25,000 \$0 \$0 \$197,650 \$2,265,547 Tible: president	32045 ACCT CODE 32101 32102 32103 32104 32105 32106 32107 32108 32111 32112 32113 32114 32115 32116 32117 32118 32117 32118 32112 32122 32122 32122 32122 32123 32124 32128 32129 32120 32121 32120 32121 32120 32121 32120 32121 32120 32121 32120	\$6,173,660 COMPLETION - 321XX \$544,750 \$66,339 \$15,000 \$42,000 \$42,000 \$511,000 \$2,000 \$505,683 \$695,683 \$695,685,749 Date: 2/14/2019	ACCT CODE 33101 33102 33103 33104 33105 33106 33107 33110 33111 33112 33113 33114 33115 33117 33116 33117 33118 33117 33118 33119 33118 3318 33118 33118 33118 33118 33118 33118 33118 33118 33118 33118 331	\$80,000 \$84,000 \$50,000 \$125,000 \$21,000 \$21,000 \$50,000 \$44,000 \$44,000 \$44,000	\$8,241,557 TOTAL \$67,900 \$104,750 \$540,750 \$540,750 \$0 \$10,750 \$0 \$10,900 \$1	
TOTAL INTANGIBLE COSTS TANGIBLE COSTS Conductor Surface Casing Surface Casing Liner 2nd Intermediate Casing / Liner 2nd In	31050 ACCT CODE 31101 31102 31103 31104 31105 31107 the ectual of the section of the sectio	\$87,900 \$104,750 \$104,750 \$25,000 \$25,000 \$0 \$0 \$197,650 \$2,265,547 Tible: president	32045 ACCT CODE 32101 32102 32103 32104 32105 32106 32107 32108 32111 32112 32113 32114 32115 32116 32117 32118 32117 32118 32112 32122 32122 32122 32122 32123 32124 32128 32129 32120 32121 32120 32121 32120 32121 32120 32121 32120 32121 32120	\$6,173,660 COMPLETION - 321XX \$544,750 \$66,339 \$15,000 \$42,000 \$42,000 \$511,000 \$2,000 \$505,683 \$695,683 \$695,685,749 Date: 2/14/2019	ACCT CODE 33101 33102 33103 33104 33105 33106 33107 33110 33111 33112 33113 33114 33115 33117 33116 33117 33118 33117 33118 33119 33118 3318 33118 33118 33118 33118 33118 33118 33118 33118 33118 33118 331	\$80,000 \$84,000 \$50,000 \$125,000 \$21,000 \$21,000 \$50,000 \$44,000 \$44,000 \$44,000	\$8,241,557 TOTAL \$67,900 \$104,750 \$540,750 \$540,750 \$0 \$10,750 \$0 \$10,900 \$1	
TOTAL INTANGIBLE COSTS TANGIBLE COSTS Conductor Surface Casing Surface Casing Liner 2nd Intermediate Casing / Liner 2nd / Pony Rods / Sinker Bars 2nd Frank / Dehydration Equipment 3nd / Fank Steps / Stairs 3nd Frank / Dehydration Equipment 3nd Frank Steps / Stairs 3nd Frank / Dehydration Equipment 3nd Frank / Dehydration Equipment 3nd Frank / Dehydration Equipment 3nd Frank Steps / Stairs 3nd Frank / Dehydration Equipment 3nd Frank / Deh	31050 ACCT CODE 31101 31102 31103 31104 31105 31107 the ectual of the section of the sectio	\$87,900 \$104,750 \$104,750 \$25,000 \$25,000 \$0 \$0 \$197,650 \$2,265,547 Tible: president	32045 ACCT CODE 32101 32102 32103 32104 32105 32106 32107 32108 32111 32112 32113 32114 32115 32116 32117 32118 32117 32118 32112 32122 32122 32122 32122 32123 32124 32128 32129 32120 32121 32120 32121 32120 32121 32120 32121 32120 32121 32120	\$6,173,660 COMPLETION - 321XX \$544,750 \$66,339 \$15,000 \$42,000 \$42,000 \$511,000 \$2,000 \$505,683 \$695,683 \$695,685,749 Date: 2/14/2019	ACCT CODE 33101 33102 33103 33104 33105 33106 33107 33110 33111 33112 33113 33114 33115 33117 33116 33117 33118 33117 33118 33119 33118 3318 33118 33118 33118 33118 33118 33118 33118 33118 33118 33118 331	\$80,000 \$84,000 \$50,000 \$125,000 \$21,000 \$21,000 \$50,000 \$44,000 \$44,000 \$44,000	\$8,241,557 TOTAL \$67,900 \$104,750 \$540,750 \$540,750 \$0 \$10,750 \$0 \$10,900 \$1	
TOTAL INTANGIBLE COSTS TANGIBLE COSTS Conductor Surface Casing Surface Casing Liner 2nd Intermediate Liner 2nd Int	31050 ACCT CODE 31101 31102 31103 31104 31105 31107 the ectual of the section of the sectio	\$87,900 \$104,750 \$104,750 \$25,000 \$25,000 \$0 \$0 \$197,650 \$2,265,547 Tible: president	32045 ACCT CODE 32101 32102 32103 32104 32105 32106 32107 32108 32111 32112 32113 32114 32115 32116 32117 32118 32117 32118 32112 32122 32122 32122 32122 32123 32124 32128 32129 32120 32121 32120 32121 32120 32121 32120 32121 32120 32121 32120	\$6,173,660 COMPLETION - 321XX \$544,750 \$66,339 \$15,000 \$42,000 \$42,000 \$511,000 \$2,000 \$505,683 \$695,683 \$695,685,749 Date: 2/14/2019	ACCT CODE 33101 33102 33103 33104 33105 33106 33107 33110 33111 33112 33113 33114 33115 33117 33116 33117 33118 33117 33118 33119 33118 3318 33118 33118 33118 33118 33118 33118 33118 33118 33118 33118 331	\$80,000 \$84,000 \$50,000 \$125,000 \$21,000 \$21,000 \$50,000 \$64,000 \$65,000	\$8,241,557 TOTAL \$67,900 \$104,750 \$540,750 \$540,750 \$0 \$10,750 \$0 \$10,900 \$1	



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	BSPG HZ Permits								Mewbourne Oil Company				
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~ 6 Mile Radius around sections 21 & 28 T19S-R35E													

220 HZ Bone Spring Wells Drilled

83% - 1.0 Mile Laterals

17% - 1.5 Mile Laterals

0% - 2.0 Mile Laterals

66% - 1.0 Mile Laterals

58 HZ Bone Spring Wells Drilled since 2017 34% - 1.5 Mile Laterals

0% - 2.0 Mile Laterals

*Information from IHS Energy