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

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

APPLICATION OF MACK ENERGY CORPORATION FOR COMPULSORY POOLING, LEA COUNTY, NEW MEXICO.

Case No. 14,871

APPLICATION OF MACK ENERGY CORPORATION FOR COMPULSORY POOLING, LEA COUNTY, NEW MEXICO.

Case No. 14,872

APPLICATION OF MACK ENERGY CORPORATION FOR COMPULSORY POOLING, LEA COUNTY, NEW MEXICO.

Case No. 14,873

VERIFIED STATEMENT OF STACE SANDERS

Staci Sanders, being duly sworn upon her oath, deposes and states:

- 1. I am a landman for Mack Energy Corporation, and have personal knowledge of the matters stated herein.
- 2. Pursuant to Division Rule NMAC 19.15.4.12.A(1), the following information is submitted in support of the compulsory pooling application filed herein:
 - (a) No opposition is expected because the working interest owner being pooled has been contacted regarding the proposed wells, and has simply not decided whether to join in the wells or farm out its interests.
 - (b) A plat outlining the spacing units being pooled is attached hereto as Exhibit A. Applicant seeks the following:

Case 14871: Mack Energy Corporation seeks an order pooling all mineral interests from the surface to the base of the San Andres formation underlying the SE¼SW¼ of Section 8, Township 17 South, Range 32 East, N.M.P.M., to form a standard 40-acre oil spacing and proration unit for any and all formations or pools developed on 40-acre spacing within that vertical extent. The unit will be dedicated to the Pintail Fed. Well No. 2, to be drilled at an orthodox location.

Oil Conserva	ation Division
Case No.	-1
Exhibit No.	

Case 14872: Mack Energy Corporation seeks an order pooling all mineral interests from the surface to the base of the San Andres formation underlying the SW¼SW¼ of Section 8, Township 17 South, Range 32 East, N.M.P.M., to form a standard 40-acre oil spacing and proration unit for any and all formations or pools developed on 40-acre spacing within that vertical extent. The unit will be dedicated to the Pintail Fed. Well No. 3, to be drilled at an orthodox location.

Case 14873: Mack Energy Corporation seeks an order pooling all mineral interests from the surface to the base of the San Andres formation underlying the NW4SW4 of Section 8, Township 17 South, Range 32 East, N.M.P.M., to form a standard 40-acre oil spacing and proration unit for any and all formations or pools developed on 40-acre spacing within that vertical extent. The unit will be dedicated to the Pintail Fed. Well No. 4, to be drilled at an orthodox location.

(c) The party being pooled, its working interest in the well units, and its address, are as follows:

ConocoPhillips Company P.O. Box 2197 Houston, Texas 77252 74%

The above address is current and correct.

- (d) A copy of the proposal letter sent to the uncommitted working interest owner is attached hereto as Exhibit B. We have also had several telephone discussions with ConocoPhillips Company, but it has never responded.
- (e) Pursuant to Division rules, applicant requests that a 200% risk charge be assessed against any non-consenting working interest owner.
- (f) Copies of the Authority for Expenditure for the proposed wells is attached hereto as Exhibit C. The drilling and completion costs set forth therein are fair and reasonable, and are comparable to those of other wells of this depth drilled in this area of Eddy County.
- (g) Overhead charges of \$6500/month for a drilling well, and \$650/month for a producing well, are requested. These rates are fair and reasonable, and are in line with rates charged by other operators in this area for wells of this depth. Applicant also requests that the order contain a provision adjusting the rates pursuant to the COPAS accounting procedure.
- (h) Applicant requests that it be designated operator of the wells.

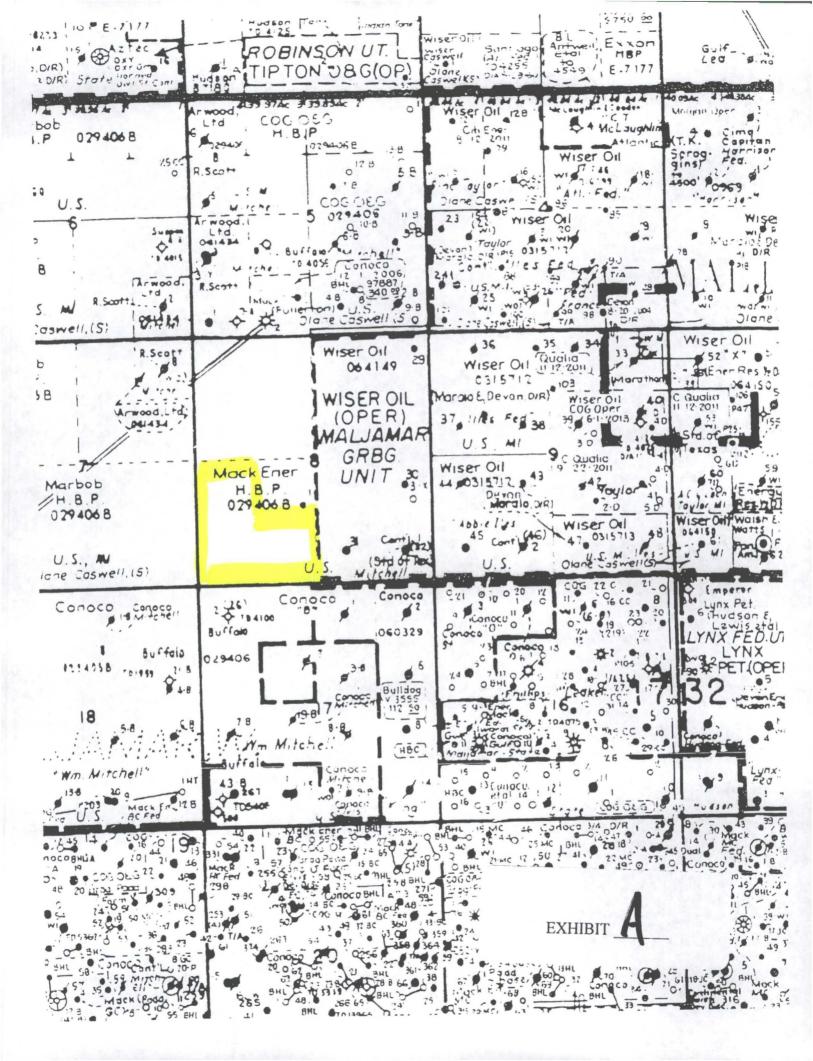
VERIFICATION

STATE OF NEW MEXICO)
) ss.
COUNTY OF EDDY)

Staci Sanders, being duly sworn upon her oath, deposes and states that: She is a landman for Mack Energy Corporation; she is authorized to make this verification on its behalf; she has read the foregoing statement, and knows the contents thereof; and the same is true and correct to the best of her knowledge, information, and belief.

SUBSCRIBED AND SWORN TO before me this 22 ng day of June, 2010 by Staci Sanders.

My Commission Expires: 6-6-2013



Post Office Box 1767 Artesia, New Mexico 88211-1767 Office (575) 746-9853 FAX (575) 748-7374

Certified Mail

February 17, 2012

Mr. Thomas J. Scarbrough ConocoPhillips Company P.O. Box 2197 Houston, Texas 77252-2197

Re:

1209 - FED NMLC-029406-B Pintail Federal Well Proposals Lea County, New Mexico

Dear Mr. Scarbrough:

Mack Energy Corporation ("Mack") invites ConocoPhillips Company ("COP") to join in the drilling of the Pintail Federal #2, located 330 feet FSL and 2310 feet FWL, the Pintail Federal #3, located 330 feet FSL and 990 feet FWL, and the Pintail Federal #4, located 1650 feet FSL and 990 feet FWL, all in Section 8, T17S, R32E, Lea County, New Mexico. These wells are slated to test the San Andres formation with total depths of 5500 feet.

These portions of Federal Lease 029406-B, as to rights from the surface to the base of the San Andres formation, are owned 26% by Chase Oil Corporation (an affiliate of Mack), and 74% by COP.

Duplicate original AFE's for each well are enclosed for your review. If you wish to join, please return approved AFE's and I will forward an Operating Agreement naming Mack Energy Corporation as Operator for your review.

If you do not wish to participate in the drilling of these wells, we will pay a bonus of \$250 per net leasehold acre for a two year Term Assignment of your interest from the surface to the base of the San Andres formation underlying the NW/4SW/4, S/2SW/4 of Section 8, T17S, R32E. We propose delivery of a 77.5% net revenue interest and a 180 day continuous drilling provision.

Give me a call or contact me via email at stack@mec.com if you have any questions.

Sincerely,

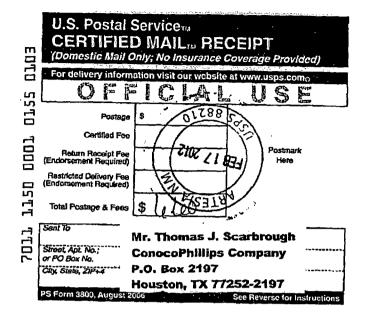
Mack Energy Corporation

Staci D. Sanders

Enclosures

3/27/12- Tom Scarbrough Daid they are looking at this & hope to have an answer in a week on so.

EXHIBIT 13



and the state of t	
SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
 Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailplece, or on the front if space permits. Article Addressed to: Mr. Thomas J. Scarbrough 	A. Signature X
ConocoPhillips Company	
P.O. Box 2197	3. Service Type
Houston, TX 77252-2197	Gertified Mail
Pinkail Federal Well Proposals	4. Restricted Delivery? (Extra Fee)
2. Article Number 7011 (Transfer from service label)	1120 0001 0122 0103
PS Form 3811, February 2004 Domestic Re	turn Receipt 102595-02-M-1540

MACK ENERGY CORPORATION

AUTHORIZATION FOR EXPENDITURE Pintail Federal #2

5500' TMD SHL: 330 FSL & 2310 FWL

Sec. 8, T17S, R32E, Lea County, New Mexico

Code	Drilling Intangible	Dry Hole Without Pipe	Completed Well	Actual Cost
502-015	Adminstrative Overhead Drilling	\$2,000.00	\$0.00	\$2,000.00
	Location, Roads, Pits, & Damages	\$56,500.00	\$0.00	\$56,500.00
	Footage	\$0.00	\$0.00	\$0.00
	Daywork 10 days \$14000/day	\$205,500.00	\$0.00	\$205,500.00
	Rental Equipment Surface	\$61,007.50	\$0.00	\$61,007.50
	Rental Equipment SubSurface	\$8,100.00	\$0.00	\$8,100.00
502-116	Water-Drilling	\$28,500.00	\$0.00	\$28,500.00
	Mud Materials	\$23,000.00	\$0.00	\$23,000.00
	Cement Surface and Intermediate	\$21,000.00 \$14,250.00	00.02	\$21,000.00 \$14,250.00
	Cement Production	\$0.00	\$35,750.00	\$35,750.00
	Fuel & Power	\$19,000.00	\$0.00	\$19,000.00
	Supplies & Misc.	\$0.00	\$0.00	\$0.00
	Testing, Coring, & Mud Logging	\$19,560.00	\$0.00	\$19,560.00
	Open Hole Logs/Wireline	\$38,565.00	\$0.00	\$38,565.00
502-650	Directional Drillers	\$0.00	\$0.00	\$0.00
502-681	Supervision	\$15,000.00	\$0.00	\$15,000.00
502-682	Trailer Rentals & Other Camp Equip.	\$1,900.00	\$0.00	\$1,900.00
	Miscellaneous and Contingency	\$51,188.25	\$0.00	\$51,188.25
-				
Code	Total Drilling Intangibles	\$565,070.75	\$35,750.00	\$600,820.75
	Completion Interesibles			
502_015	Completion Intangibles Adminstrative Overhead Completion	\$0.00	\$3,000.00	\$3,000.00
	Battery Construction-Dirt Work,Etc	\$0.00	\$45,000.00	\$45,000.00
	Completion Unit	\$0.00	\$60,300.00	\$60,300.00
	Fuel, Water, Power	\$0.00	\$19,500.00	\$19,500.00
	Completions Surface Rentals	\$0.00	\$36,498.00	\$36,498.00
	Completions SubSurface Rentals	\$0.00	\$20,528.00	\$20,528.00
	Perforating and Logging	\$0.00	\$30,000.00	\$30,000.00
	Frac and/or Acid Treatment	\$0.00	\$315,306.00	\$315,306.00
	Professional Services	\$0.00	\$18,750.00	\$18,750.00
	Miscellaneous Services	\$0.00	\$5,000.00	\$5,000.00
	Contingency	\$0.00	\$55,088.20	\$55,088.20
	Contingency	\$0.00		
Code	Contingency Total Completion Intangibles	\$0.00		
Code			\$55,088.20	\$55,088.20
Code	Total Completion Intangibles	\$0.00	\$55,088.20 \$608,970.20	\$55,088.20 \$608,970.20
<u></u>	Total Completion Intangibles Total Intangibles Drilling and Completion Tangibles	\$0.00	\$55,088.20 \$608,970.20	\$55,088.20 \$608,970.20
<u></u>	Total Completion Intangibles Total Intangibles	\$0.00	\$55,088.20 \$608,970.20	\$55,088.20 \$608,970.20
170-105 170-110	Total Completion Intangibles Total Intangibles Drilling and Completion Tangibles Surface Casing 950' 8 5/8" 32# J-55 Intermediate Casing 0 0	\$0.00 \$565,070.75 \$36,193.99 \$0.00	\$55,088.20 \$608,970.20 \$644,720.20 \$0.00 \$0.00	\$55,088.20 \$608,970.20 \$1,209,790.95 \$36,193.99 \$0.00
170-105 170-110 170-115	Total Completion Intangibles Total Intangibles Drilling and Completion Tangibles Surface Casing 950' 8 5/8" 32# J-55 Intermediate Casing 0 0 Production Casing 5500' 5 1/2" 17# L-80	\$0.00 \$565,070.75 \$36,193.99 \$0.00 \$0.00	\$55,088.20 \$608,970.20 \$644,720.20 \$0.00 \$0.00 \$119,324.56	\$55,088.20 \$608,970.20 \$1,209,790.95 \$36,193.99 \$0.00 \$119,324.56
170-105 170-110 170-115 170-115	Total Completion Intangibles Total Intangibles Drilling and Completion Tangibles Surface Casing 950' 8 5/8" 32# J-55 Intermediate Casing 0 0 Production Casing 5500' 5 1/2" 17# L-80 Production Liner 0 0	\$0.00 \$565,070.75 \$36,193.99 \$0.00 \$0.00 \$0.00	\$55,088.20 \$608,970.20 \$644,720.20 \$0.00 \$0.00 \$119,324.56 \$0.00	\$55,088.20 \$608,970.20 \$1,209,790.95 \$36,193.99 \$0.00 \$119,324.56 \$0.00
170-105 170-110 170-115 170-115 170-120	Total Completion Intangibles Total Intangibles Drilling and Completion Tangibles Surface Casing 950' 8 5/8" 32# J-55 Intermediate Casing 0 0 Production Casing 5500' 5 1/2" 17# L-80 Production Liner 0 0 Production Tubing 5450' 2 7/8" 6.5# J-55	\$0.00 \$565,070.75 \$36,193.99 \$0.00 \$0.00 \$0.00 \$0.00	\$55,088.20 \$608,970.20 \$644,720.20 \$0.00 \$0.00 \$119,324.56 \$0.00 \$42,713.69	\$55,088.20 \$608,970.20 \$1,209,790.95 \$36,193.99 \$0.00 \$119,324.56 \$0.00 \$42,713.69
170-105 170-110 170-115 170-115 170-120 170-125	Total Completion Intangibles Total Intangibles Drilling and Completion Tangibles Surface Casing 950' 8 5/8" 32# J-55 Intermediate Casing 0 0 Production Casing 5500' 5 1/2" 17# L-80 Production Liner 0 0 Production Tubing 5450' 2 7/8" 6.5# J-55 Wellhead Equipment—Long String	\$0.00 \$565,070.75 \$36,193.99 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$55,088.20 \$608,970.20 \$644,720.20 \$0.00 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00	\$55,088.20 \$608,970.20 \$1,209,790.95 \$36,193.99 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00
170-105 170-110 170-115 170-115 170-120 170-125 170-126	Total Completion Intangibles Total Intangibles Drilling and Completion Tangibles Surface Casing 950' 8 5/8" 32# J-55 Intermediate Casing 0 0 Production Casing 5500' 5 1/2" 17# L-80 Production Liner 0 0 Production Tubing 5450' 2 7/8" 6.5# J-55 Wellhead Equipment Long String Wellhead Equipment Surface & Intermediate	\$0.00 \$565,070.75 \$36,193.99 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$1,600.00	\$55,088.20 \$608,970.20 \$644,720.20 \$0.00 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$0.00	\$55,088.20 \$608,970.20 \$1,209,790.95 \$36,193.99 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$1,600.00
170-105 170-110 170-115 170-115 170-120 170-125 170-126 170-130	Total Completion Intangibles Total Intangibles Drilling and Completion Tangibles Surface Casing 950' 8 5/8" 32# J-55 Intermediate Casing 0 0 Production Casing 5500' 5 1/2" 17# L-80 Production Liner 0 0 Production Tubing 5450' 2 7/8" 6.5# J-55 Wellhead Equipment Long String Wellhead Equipment Long String	\$0.00 \$565,070.75 \$36,193.99 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$1,600.00 \$0.00	\$55,088.20 \$608,970.20 \$644,720.20 \$0.00 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$0.00 \$2,500.00	\$55,088.20 \$608,970.20 \$1,209,790.95 \$36,193.99 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$1,600.00 \$2,500.00
170-105 170-110 170-115 170-115 170-120 170-125 170-126 170-130 170-131	Total Completion Intangibles Total Intangibles Drilling and Completion Tangibles Surface Casing 950' 8 5/8" 32# J-55 Intermediate Casing 0 0 Production Casing 5500' 5 1/2" 17# L-80 Production Liner 0 0 Production Tubing 5450' 2 7/8" 6.5# J-55 Wellhead Equipment Long String Wellhead Equipment Surface & Intermediate Floating Equipment Surface & Intermediate	\$0.00 \$565,070.75 \$36,193.99 \$0.00 \$0.00 \$0.00 \$0.00 \$1,600.00 \$1,600.00 \$2,500.00	\$55,088.20 \$608,970.20 \$644,720.20 \$0.00 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$0.00 \$2,500.00 \$0.00	\$55,088.20 \$608,970.20 \$1,209,790.95 \$36,193.99 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$1,600.00 \$2,500.00
170-105 170-110 170-115 170-115 170-120 170-125 170-126 170-130 170-131	Total Completion Intangibles Total Intangibles Drilling and Completion Tangibles Surface Casing 950' 8 5/8" 32# J-55 Intermediate Casing 0 0 Production Casing 5500' 5 1/2" 17# L-80 Production Liner 0 0 Production Tubing 5450' 2 7/8" 6.5# J-55 Wellhead Equipment Long String Wellhead Equipment Surface & Intermediate Floating Equipment Surface & Intermediate Rods	\$36,193.99 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$1,600.00 \$1,600.00 \$2,500.00	\$55,088.20 \$608,970.20 \$644,720.20 \$0.00 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$0.00 \$24,680.87	\$55,088.20 \$608,970.20 \$1,209,790.95 \$36,193.99 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$1,600.00 \$2,500.00 \$2,500.00 \$24,680.87
170-105 170-110 170-115 170-115 170-120 170-125 170-126 170-130 170-131 170-135 170-140	Total Completion Intangibles Total Intangibles Drilling and Completion Tangibles Surface Casing 950' 8 5/8" 32# J-55 Intermediate Casing 0 0 Production Casing 5500' 5 1/2" 17# L-80 Production Liner 0 0 Production Tubing 5450' 2 7/8" 6.5# J-55 Wellhead Equipment Long String Wellhead Equipment Surface & Intermediate Floating Equipment Surface & Intermediate Rods Subsurfaces Equipment	\$36,193.99 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$1,600.00 \$2,500.00 \$2,500.00 \$0.00	\$55,088.20 \$608,970.20 \$644,720.20 \$0.00 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$2,500.00 \$24,680.87 \$3,500.00	\$55,088.20 \$608,970.20 \$1,209,790.95 \$36,193.99 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$2,500.00 \$2,500.00 \$24,680.87 \$3,500.00
170-105 170-110 170-115 170-115 170-120 170-125 170-126 170-130 170-131 170-135 170-140 170-145	Total Completion Intangibles Total Intangibles Drilling and Completion Tangibles Surface Casing 950' 8 5/8" 32# J-55 Intermediate Casing 0 0 Production Casing 5500' 5 1/2" 17# L-80 Production Liner 0 0 Production Tubing 5450' 2 7/8" 6.5# J-55 Wellhead Equipment Long String Wellhead Equipment Surface & Intermediate Floating Equipment Surface & Intermediate Rods Subsurfaces Equipment Linepipe	\$36,193.99 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$1,600.00 \$1,600.00 \$2,500.00	\$55,088.20 \$608,970.20 \$644,720.20 \$0.00 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$2,500.00 \$2,500.00 \$24,680.87 \$3,500.00 \$3,500.00 \$24,680.87	\$55,088.20 \$608,970.20 \$1,209,790.95 \$36,193.99 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$2,500.00 \$2,500.00 \$24,680.87 \$3,500.00 \$3,500.00
170-105 170-110 170-115 170-115 170-120 170-125 170-126 170-130 170-131 170-135 170-140 170-145	Total Completion Intangibles Total Intangibles Drilling and Completion Tangibles Surface Casing 950' 8 5/8" 32# J-55 Intermediate Casing 0 0 Production Casing 5500' 5 1/2" 17# L-80 Production Liner 0 0 Production Tubing 5450' 2 7/8" 6.5# J-55 Wellhead Equipment Long String Wellhead Equipment Surface & Intermediate Floating Equipment Surface & Intermediate Rods Subsurfaces Equipment Linepipe Tanks, Treater, Separators	\$0.00 \$565,070.75 \$36,193.99 \$0.00 \$0.00 \$0.00 \$0.00 \$1,600.00 \$2,500.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$55,088.20 \$608,970.20 \$644,720.20 \$0.00 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$2,500.00 \$2,500.00 \$24,680.87 \$3,500.00 \$3,500.00 \$3,500.00 \$3,500.00 \$3,500.00 \$3,500.00 \$3,500.00 \$3,500.00	\$55,088.20 \$608,970.20 \$1,209,790.95 \$36,193.99 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$2,500.00 \$2,500.00 \$2,600.00 \$2,600.00 \$3,500.00 \$3,500.00 \$80,000.00
170-105 170-110 170-115 170-125 170-125 170-126 170-130 170-131 170-135 170-140 170-145 170-145 170-150	Total Completion Intangibles Total Intangibles Drilling and Completion Tangibles Surface Casing 950' 8 5/8" 32# J-55 Intermediate Casing 0 0 Production Casing 5500' 5 1/2" 17# L-80 Production Liner 0 0 Production Tubing 5450' 2 7/8" 6.5# J-55 Wellhead Equipment Long String Wellhead Equipment Surface & Intermediate Floating Equipment Surface & Intermediate Rods Subsurfaces Equipment Linepipe	\$0.00 \$565,070.75 \$36,193.99 \$0.00 \$0.00 \$0.00 \$0.00 \$1,600.00 \$2,500.00 \$0.00 \$0.00 \$0.00	\$55,088.20 \$608,970.20 \$644,720.20 \$0.00 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$2,500.00 \$2,500.00 \$24,680.87 \$3,500.00 \$3,500.00 \$24,680.87	\$55,088.20 \$608,970.20 \$1,209,790.95 \$36,193.99 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$2,500.00 \$2,500.00 \$24,680.87 \$3,500.00 \$3,500.00
170-105 170-110 170-115 170-125 170-125 170-126 170-130 170-131 170-135 170-140 170-145 170-145 170-150	Total Completion Intangibles Total Intangibles Drilling and Completion Tangibles Surface Casing 950' 8 5/8" 32# J-55 Intermediate Casing 0 0 Production Casing 5500' 5 1/2" 17# L-80 Production Liner 0 0 Production Tubing 5450' 2 7/8" 6.5# J-55 Wellhead Equipment— Long String Wellhead Equipment— Surface & Intermediate Floating Equipment— Surface & Intermediate Rods Subsurfaces Equipment Linepipe Tanks, Treater, Separators Pumping Unit And Engine	\$0.00 \$565,070.75 \$36,193.99 \$0.00 \$0.00 \$0.00 \$0.00 \$1,600.00 \$2,500.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$55,088.20 \$608,970.20 \$644,720.20 \$0.00 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$2,500.00 \$24,680.87 \$3,500.00 \$3,500.00 \$80,000.00 \$80,000.00 \$80,000.00	\$55,088.20 \$608,970.20 \$1,209,790.95 \$36,193.99 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$2,500.00 \$2,500.00 \$24,680.87 \$3,500.00 \$3,500.00 \$80,000.00 \$85,000.00
170-105 170-110 170-115 170-125 170-125 170-126 170-130 170-131 170-135 170-140 170-145 170-145 170-150	Total Completion Intangibles Total Intangibles Drilling and Completion Tangibles Surface Casing 950' 8 5/8" 32# J-55 Intermediate Casing 0 0 Production Casing 5500' 5 1/2" 17# L-80 Production Liner 0 0 Production Tubing 5450' 2 7/8" 6.5# J-55 Wellhead Equipment— Long String Wellhead Equipment— Surface & Intermediate Floating Equipment— Surface & Intermediate Rods Subsurfaces Equipment Linepipe Tanks, Treater, Separators Pumping Unit And Engine Other Miscellaneous Equipment	\$0.00 \$565,070.75 \$36,193.99 \$0.00 \$0.00 \$0.00 \$0.00 \$1,600.00 \$2,500.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$55,088.20 \$608,970.20 \$644,720.20 \$0.00 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$0.00 \$2,500.00 \$24,680.87 \$3,500.00 \$3,500.00 \$3,500.00 \$3,500.00 \$3,500.00	\$55,088.20 \$608,970.20 \$1,209,790.95 \$36,193.99 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$2,500.00 \$24,680.87 \$3,500.00 \$3,500.00 \$85,000.00 \$85,000.00
170-105 170-110 170-115 170-125 170-125 170-126 170-130 170-131 170-135 170-140 170-145 170-145 170-150	Total Completion Intangibles Total Intangibles Drilling and Completion Tangibles Surface Casing 950' 8 5/8" 32# J-55 Intermediate Casing 0 0 Production Casing 5500' 5 1/2" 17# L-80 Production Liner 0 0 Production Tubing 5450' 2 7/8" 6.5# J-55 Wellhead Equipment— Long String Wellhead Equipment— Surface & Intermediate Floating Equipment— Surface & Intermediate Rods Subsurfaces Equipment Linepipe Tanks, Treater, Separators Pumping Unit And Engine Other Miscellaneous Equipment	\$0.00 \$565,070.75 \$36,193.99 \$0.00 \$0.00 \$0.00 \$0.00 \$1,600.00 \$2,500.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$55,088.20 \$608,970.20 \$644,720.20 \$0.00 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$0.00 \$2,500.00 \$24,680.87 \$3,500.00 \$3,500.00 \$3,500.00 \$3,500.00 \$3,500.00	\$55,088.20 \$608,970.20 \$1,209,790.95 \$36,193.99 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$2,500.00 \$24,680.87 \$3,500.00 \$3,500.00 \$85,000.00 \$85,000.00
170-105 170-110 170-115 170-125 170-125 170-126 170-130 170-131 170-135 170-140 170-145 170-145 170-150	Total Completion Intangibles Total Intangibles Drilling and Completion Tangibles Surface Casing 950' 8 5/8" 32# J-55 Intermediate Casing 0 0 Production Casing 5500' 5 1/2" 17# L-80 Production Liner 0 0 Production Tubing 5450' 2 7/8" 6.5# J-55 Wellhead Equipment Long String Wellhead Equipment Surface & Intermediate Floating Equipment Surface & Intermediate Rods Subsurfaces Equipment Linepipe Tanks, Treater, Separators Pumping Unit And Engine Other Miscellaneous Equipment Contingency Total Tangible	\$0.00 \$565,070.75 \$36,193.99 \$0.00 \$0.00 \$0.00 \$0.00 \$1,600.00 \$2,500.00 \$0.00	\$55,088.20 \$608,970.20 \$644,720.20 \$0.00 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$0.00 \$2,500.00 \$24,680.87 \$3,500.00 \$35,000.00 \$85,000.00 \$85,000.00 \$36,271.91 \$398,991.03	\$55,088.20 \$608,970.20 \$1,209,790.95 \$36,193.99 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$2,500.00 \$2,500.00 \$2,500.00 \$3,500.00 \$3,500.00 \$81,000.00 \$40,701.31 \$443,314.42
170-105 170-110 170-115 170-125 170-125 170-126 170-130 170-131 170-135 170-140 170-145 170-145 170-150	Total Completion Intangibles Total Intangibles Drilling and Completion Tangibles Surface Casing 950' 8 5/8" 32# J-55 Intermediate Casing 0 0 Production Casing 5500' 5 1/2" 17# L-80 Production Liner 0 0 Production Tubing 5450' 2 7/8" 6.5# J-55 Wellhead Equipment Long String Wellhead Equipment Surface & Intermediate Floating Equipment Surface & Intermediate Rods Subsurfaces Equipment Linepipe Tanks, Treater, Separators Pumping Unit And Engine Other Miscellaneous Equipment Contingency	\$0.00 \$565,070.75 \$36,193.99 \$0.00 \$0.00 \$0.00 \$1,600.00 \$1,600.00 \$2,500.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$55,088.20 \$608,970.20 \$644,720.20 \$0.00 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$2,500.00 \$24,680.87 \$3,500.00 \$3,500.00 \$3,500.00 \$3,500.00 \$3,500.00 \$3,500.00 \$3,500.00 \$3,500.00 \$3,500.00 \$3,500.00 \$3,500.00	\$55,088.20 \$608,970.20 \$1,209,790.95 \$36,193.99 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$2,500.00 \$24,680.87 \$3,500.00 \$3,500.00 \$3,500.00 \$85,000.00 \$85,000.00 \$85,000.00
170-105 170-110 170-115 170-125 170-125 170-126 170-130 170-131 170-135 170-140 170-145 170-145 170-150	Total Completion Intangibles Total Intangibles Drilling and Completion Tangibles Surface Casing 950' 8 5/8" 32# J-55 Intermediate Casing 0 0 Production Casing 5500' 5 1/2" 17# L-80 Production Liner 0 0 Production Tubing 5450' 2 7/8" 6.5# J-55 Wellhead Equipment Long String Wellhead Equipment Surface & Intermediate Floating Equipment Surface & Intermediate Rods Subsurfaces Equipment Linepipe Tanks, Treater, Separators Pumping Unit And Engine Other Miscellaneous Equipment Contingency Total Tangible TOTAL WELL COSTS	\$0.00 \$565,070.75 \$36,193.99 \$0.00 \$0.00 \$0.00 \$0.00 \$1,600.00 \$2,500.00 \$0.00	\$55,088.20 \$608,970.20 \$644,720.20 \$0.00 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$2,500.00 \$24,680.87 \$3,500.00 \$33,500.00 \$80,000 \$36,271.91 \$398,991.03	\$55,088.20 \$608,970.20 \$1,209,790.95 \$36,193.99 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$2,500.00 \$24,680.87 \$3,500.00 \$3,500.00 \$80,000.00 \$85,000.00 \$40,301.31 \$443,314.42
170-105 170-110 170-115 170-125 170-125 170-126 170-130 170-131 170-135 170-140 170-145 170-145 170-150	Total Completion Intangibles Total Intangibles Drilling and Completion Tangibles Surface Casing 950' 8 5/8" 32# J-55 Intermediate Casing 0 0 Production Casing 5500' 5 1/2" 17# L-80 Production Liner 0 0 Production Tubing 5450' 2 7/8" 6.5# J-55 Wellhead Equipment Long String Wellhead Equipment Surface & Intermediate Floating Equipment Surface & Intermediate Rods Subsurfaces Equipment Linepipe Tanks, Treater, Separators Pumping Unit And Engine Other Miscellaneous Equipment Contingency Total Tangible	\$0.00 \$565,070.75 \$36,193.99 \$0.00 \$0.00 \$0.00 \$0.00 \$1,600.00 \$2,500.00 \$0.00	\$55,088.20 \$608,970.20 \$644,720.20 \$0.00 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$0.00 \$2,500.00 \$24,680.87 \$3,500.00 \$35,000.00 \$85,000.00 \$85,000.00 \$36,271.91 \$398,991.03	\$55,088.20 \$608,970.20 \$1,209,790.95 \$36,193.99 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$2,500.00 \$2,500.00 \$2,500.00 \$3,500.00 \$3,500.00 \$81,000.00 \$40,701.31 \$443,314.42
170-105 170-110 170-115 170-115 170-120 170-125 170-126 170-131 170-131 170-134 170-145 170-140 170-145	Total Completion Intangibles Total Intangibles Drilling and Completion Tangibles Surface Casing 950' 8 5/8" 32# J-55 Intermediate Casing 0 0 Production Casing 5500' 5 1/2" 17# L-80 Production Liner 0 0 Production Tubing 5450' 2 7/8" 6.5# J-55 Wellhead Equipment Long String Wellhead Equipment Surface & Intermediate Floating Equipment Surface & Intermediate Rods Subsurfaces Equipment Linepipe Tanks, Treater, Separators Pumping Unit And Engine Other Miscellaneous Equipment Contingency Total Tangible TOTAL WELL COSTS	\$0.00 \$565,070.75 \$36,193.99 \$0.00 \$0.00 \$0.00 \$0.00 \$1,600.00 \$2,500.00 \$0.00	\$55,088.20 \$608,970.20 \$644,720.20 \$0.00 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$24,680.87 \$3,500.00 \$33,500.00 \$35,000.00 \$36,271.91 \$398,991.03 \$1,043,711.23	\$55,088.20 \$608,970.20 \$1,209,790.95 \$36,193.99 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$2,500.00 \$24,680.87 \$3,500.00 \$3,500.00 \$3,500.00 \$40,301.31 \$443,314.42 \$1,653,105.37
170-105 170-110 170-115 170-125 170-125 170-126 170-130 170-131 170-135 170-140 170-145 170-145 170-150	Total Completion Intangibles Total Intangibles Drilling and Completion Tangibles Surface Casing 950' 8 5/8" 32# J-55 Intermediate Casing 0 0 Production Casing 5500' 5 1/2" 17# L-80 Production Liner 0 0 Production Tubing 5450' 2 7/8" 6.5# J-55 Wellhead Equipment Long String Wellhead Equipment Surface & Intermediate Floating Equipment Surface & Intermediate Rods Subsurfaces Equipment Linepipe Tanks, Treater, Separators Pumping Unit And Engine Other Miscellaneous Equipment Contingency Total Tangible TOTAL WELL COSTS	\$0.00 \$565,070.75 \$36,193.99 \$0.00 \$0.00 \$0.00 \$0.00 \$1,600.00 \$0.	\$55,088.20 \$608,970.20 \$644,720.20 \$0.00 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$24,680.87 \$3,500.00 \$33,500.00 \$35,000.00 \$36,271.91 \$398,991.03 \$1,043,711.23	\$55,088.20 \$608,970.20 \$1,209,790.95 \$36,193.99 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$2,500.00 \$24,680.87 \$3,500.00 \$3,500.00 \$3,500.00 \$40,301.31 \$443,314.42 \$1,653,105.37

MACK ENERGY CORPORATION

AUTHORIZATION FOR EXPENDITURE

Pintail Federal #3 5500' TMD

SHL: 330 FSL & 990 FWL

Sec. 8, T17S, R32E, Lea County, New Mexico

Code	Drilling Intangible	Dry Hole Without Pipe	Completed Well	Actual Cost
502-015	Adminstrative Overhead Drilling	\$2,000.00	\$0.00	\$2,000.00
	Location, Roads, Pits, & Damages	\$56,500.00	\$0.00	\$56,500.00
502-100	Footage	\$0.00	\$0.00	\$0.00
502-110	Daywork 10 days \$14000/day	\$205,500.00	\$0.00	\$205,500.00
502-114	Rental Equipment Surface	\$61,007.50	\$0.00	\$61,007.50
	Rental Equipment SubSurface	\$8,100.00	\$0.00	\$8,100.00
502-116		\$28,500.00	\$0.00	\$28,500.00
	Water-Drilling	\$23,000.00	\$0.00	\$23,000.00
	Mud Materials	\$21,000.00	20.00	\$21,000.00
	Cement Surface and Intermediate	\$14,250.00	\$0.00	\$14,250.00
	Cement Production Fuel & Power	\$0.00	\$35,750.00	\$35,750.00
	Supplies & Misc.	\$19,000.00 \$0.00	\$0.00	\$19,000.00 \$0.00
	Testing, Coring, & Mud Logging	\$19,560.00	\$0.00	\$19,560.00
	Open Hole Logs/Wireline	\$38,565.00	\$0.00	\$38,565.00
	Directional Drillers	\$0.00	\$0.00	\$0.00
	Supervision	\$15,000.00	\$0.00	\$15,000.00
	Trailer Rentals & Other Camp Equip.	\$1,900.00	\$0.00	\$1,900.00
	Miscellaneous and Contingency	\$51,188.25	\$0.00	\$51,188.25
Code	Total Drilling Intangibles	\$565,070.75	\$35,750.00	\$600,820.75
	Completion Intermibles			
502-015	Completion Intaugibles Adminstrative Overhead Completion	\$0.00	\$3,000.00	\$3,000.00
	Battery Construction-Dirt Work,Etc	\$0.00	\$45,000.00	\$45,000.00
	Completion Unit	\$0.00	\$60,300.00	\$60,300.00
	Fuel, Water, Power	\$0.00	\$19,500.00	\$19,500.00
	Completions Surface Rentals	\$0.00	\$36,498.00	\$36,498.00
	Completions SubSurface Rentals	\$0.00	\$20,528.00	\$20,528.00
	Perforating and Logging	\$0.00	\$30,000.00	\$30,000.00
	Frac and/or Acid Treatment	\$0.00	\$315,306.00	\$315,306.00
	Professional Services	\$0.00	\$18,750.00	\$18,750.00
502-700	Miscellaneous Services	\$0.00	\$5,000.00	\$5,000.00
	Contingency	\$0.00	\$55,088.20	\$55,088.20
				025,000.20
	Total Completion Intangibles			
Code	Total Completion Intangibles Total Intangibles	\$0.00	\$608,970.20	\$608,970.20
Code	Total Completion Intangibles Total Intangibles			
	Total Intangibles Drilling and Completion Tangibles	\$0.00 \$565,070.75	\$608,970.20 \$644,720.20	\$608,970.20 \$1,209,790.95
170-105	Total Intangibles Drilling and Completion Tangibles Surface Casing 950' 8 5/8" 32# J-55	\$0.00 \$565,070.75 \$36,193.99	\$608,970.20 \$644,720.20 \$0.00	\$608,970.20 \$1,209,790.95 \$36,193.99
170-105 170-110	Total Intangibles Drilling and Completion Tangibles Surface Casing 950' 8 5/8" 32# J-55 Intermediate Casing 0 0	\$0.00 \$565,070.75 \$36,193.99 \$0.00	\$608,970.20 \$644,720.20 \$0.00 \$0.00	\$608,970.20 \$1,209,790.95 \$36,193.99 \$0.00
170-105 170-110 170-115	Total Intangibles Drilling and Completion Tangibles Surface Casing 950' 8 5/8" 32# J-55 Intermediate Casing 0 0 Production Casing 5500' 5 1/2" 17# L-80	\$0.00 \$565,070.75 \$36,193.99 \$0.00 \$0.00	\$608,970.20 \$644,720.20 \$0.00 \$0.00 \$119,324.56	\$608,970.20 \$1,209,790.95 \$36,193.99 \$0.00 \$119,324.56
170-105 170-110 170-115 170-115	Total Intangibles Drilling and Completion Tangibles Surface Casing 950' 8 5/8" 32# J-55 Intermediate Casing 0 0 Production Casing 5500' 5 1/2" 17# L-80 Production Liner 0 0	\$0.00 \$565,070.75 \$36,193.99 \$0.00 \$0.00 \$0.00	\$608,970.20 \$644,720.20 \$0.00 \$0.00 \$119,324.56 \$0.00	\$608,970.20 \$1,209,790.95 \$36,193.99 \$0.00 \$119,324.56 \$0.00
170-105 170-110 170-115 170-115 170-120	Total Intangibles	\$0.00 \$565,070.75 \$36,193.99 \$0.00 \$0.00 \$0.00 \$0.00	\$608,970.20 \$644,720.20 \$0.00 \$0.00 \$119,324.56 \$0.00 \$42,713.69	\$608,970.20 \$1,209,790.95 \$36,193.99 \$0.00 \$119,324.56 \$0.00 \$42,713.69
170-105 170-110 170-115 170-115 170-120 170-125	Total Intangibles	\$0.00 \$565,070.75 \$36,193.99 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$608,970.20 \$644,720.20 \$0.00 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00	\$608,970.20 \$1,209,790.95 \$36,193.99 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00
170-105 170-110 170-115 170-115 170-120 170-125 170-126	Drilling and Completion Tangibles Surface Casing 950' 8 5/8" 32# J-55 Intermediate Casing 0 0 Production Casing 5500' 5 1/2" 17# L-80 Production Liner 0 0 Production Tubing 5450' 2 7/8" 6.5# J-55 Wellhead Equipment Long String Wellhead Equipment Surface & Intermediate	\$0.00 \$565,070.75 \$36,193.99 \$0.00 \$0.00 \$0.00 \$0.00 \$1,600.00	\$608,970.20 \$644,720.20 \$0.00 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$0.00	\$608,970.20 \$1,209,790.95 \$36,193.99 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$1,600.00
170-105 170-110 170-115 170-115 170-120 170-125 170-126 170-130	Drilling and Completion Tangibles Surface Casing 950' 8 5/8" 32# J-55 Intermediate Casing 0 0 Production Casing 5500' 5 1/2" 17# L-80 Production Liner 0 0 Production Tubing 5450' 2 7/8" 6.5# J-55 Wellhead Equipment— Long String Wellhead Equipment— Surface & Intermediate Floating Equipment— Long String	\$0.00 \$565,070.75 \$36,193.99 \$0.00 \$0.00 \$0.00 \$0.00 \$1,600.00 \$0.00	\$608,970.20 \$644,720.20 \$0.00 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$0.00 \$2,500.00	\$608,970.20 \$1,209,790.95 \$36,193.99 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$1,600.00 \$2,500.00
170-105 170-110 170-115 170-115 170-120 170-125 170-126 170-130 170-131	Drilling and Completion Tangibles Surface Casing 950' 8 5/8" 32# J-55 Intermediate Casing 0 0 Production Casing 5500' 5 1/2" 17# L-80 Production Liner 0 0 Production Tubing 5450' 2 7/8" 6.5# J-55 Wellhead Equipment— Long String Wellhead Equipment— Surface & Intermediate Floating Equipment— Long String Floating Equipment— Surface & Intermediate	\$0.00 \$565,070.75 \$36,193.99 \$0.00 \$0.00 \$0.00 \$0.00 \$1,600.00 \$0.00 \$0.00 \$0.00 \$1,600.00	\$608,970.20 \$644,720.20 \$0.00 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$2,500.00 \$0.00	\$608,970.20 \$1,209,790.95 \$36,193.99 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$1,600.00 \$2,500.00 \$2,500.00
170-105 170-110 170-115 170-115 170-120 170-125 170-126 170-130 170-131 170-135	Total Intangibles Drilling and Completion Tangibles Surface Casing 950' 8 5/8" 32# J-55 Intermediate Casing 0 0 Production Casing 5500' 5 1/2" 17# L-80 Production Liner 0 0 Production Tubing 5450' 2 7/8" 6.5# J-55 Wellhead Equipment— Long String Wellhead Equipment— Surface & Intermediate Floating Equipment— Long String Floating Equipment— Surface & Intermediate Rods	\$0.00 \$565,070.75 \$36,193.99 \$0.00 \$0.00 \$0.00 \$0.00 \$1,600.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$608,970.20 \$644,720.20 \$0.00 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$2,500.00 \$24,680.87	\$608,970.20 \$1,209,790.95 \$36,193.99 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$1,600.00 \$2,500.00 \$24,680.87
170-105 170-110 170-115 170-115 170-125 170-126 170-126 170-130 170-131 170-135 170-140	Total Intangibles Drilling and Completion Tangibles Surface Casing 950' 8 5/8" 32# J-55 Intermediate Casing 0 0 Production Casing 5500' 5 1/2" 17# L-80 Production Liner 0 0 Production Tubing 5450' 2 7/8" 6.5# J-55 Wellhead Equipment— Long String Wellhead Equipment— Surface & Intermediate Floating Equipment— Surface & Intermediate Rods Subsurfaces Equipment	\$0.00 \$565,070.75 \$36,193.99 \$0.00 \$0.00 \$0.00 \$0.00 \$1,600.00 \$2,500.00 \$0.00 \$2,500.00	\$608,970.20 \$644,720.20 \$0.00 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$2,500.00 \$2,500.00 \$24,680.87 \$3,500.00	\$608,970.20 \$1,209,790.95 \$36,193.99 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$1,600.00 \$2,500.00 \$24,680.87 \$3,500.00
170-105 170-110 170-115 170-115 170-120 170-125 170-126 170-130 170-131 170-135 170-140 170-145	Total Intangibles Drilling and Completion Tangibles Surface Casing 950' 8 5/8" 32# J-55 Intermediate Casing 0 0 Production Casing 5500' 5 1/2" 17# L-80 Production Liner 0 0 Production Tubing 5450' 2 7/8" 6.5# J-55 Wellhead Equipment— Long String Wellhead Equipment— Surface & Intermediate Floating Equipment— Long String Floating Equipment— Surface & Intermediate Rods Subsurfaces Equipment Linepipe	\$36,193.99 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$1,600.00 \$2,500.00 \$0.00 \$2,500.00 \$0.00	\$608,970.20 \$644,720.20 \$0.00 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$2,500.00 \$2,500.00 \$24,680.87 \$3,500.00 \$3,500.00	\$608,970.20 \$1,209,790.95 \$36,193.99 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$2,500.00 \$2,500.00 \$24,680.87 \$3,500.00 \$3,500.00
170-105 170-110 170-115 170-115 170-120 170-125 170-126 170-130 170-131 170-135 170-140 170-145 170-150	Drilling and Completion Tangibles Surface Casing 950' 8 5/8" 32# J-55 Intermediate Casing 0 0 Production Casing 5500' 5 1/2" 17# L-80 Production Liner 0 0 Production Tubing 5450' 2 7/8" 6.5# J-55 Wellhead Equipment— Long String Wellhead Equipment— Surface & Intermediate Floating Equipment— Long String Floating Equipment— Surface & Intermediate Rods Subsurfaces Equipment Linepipe Tanks, Treater, Separators	\$0.00 \$565,070.75 \$36,193.99 \$0.00 \$0.00 \$0.00 \$0.00 \$1,600.00 \$2,500.00 \$0.00 \$0.00 \$0.00 \$0.00	\$608,970.20 \$644,720.20 \$0.00 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$2,500.00 \$2,500.00 \$24,680.87 \$3,500.00 \$3,500.00 \$3,500.00	\$608,970.20 \$1,209,790.95 \$36,193.99 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$2,500.00 \$2,500.00 \$2,500.00 \$24,680.87 \$3,500.00 \$3,500.00 \$80,000.00
170-105 170-110 170-115 170-115 170-120 170-125 170-126 170-131 170-131 170-145 170-145 170-150 170-155	Drilling and Completion Tangibles Surface Casing 950' 8 5/8" 32# J-55 Intermediate Casing 0 0 Production Casing 5500' 5 1/2" 17# L-80 Production Liner 0 0 Production Tubing 5450' 2 7/8" 6.5# J-55 Wellhead Equipment— Long String Wellhead Equipment— Surface & Intermediate Floating Equipment— Surface & Intermediate Rods Subsurfaces Equipment Linepipe Tanks, Treater, Separators Pumping Unit And Engine	\$0.00 \$565,070.75 \$36,193.99 \$0.00 \$0.00 \$0.00 \$0.00 \$1,600.00 \$2,500.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$608,970.20 \$644,720.20 \$0.00 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$2,500.00 \$2,500.00 \$24,680.87 \$3,500.00 \$3,500.00 \$3,500.00 \$3,500.00 \$3,500.00	\$608,970.20 \$1,209,790.95 \$36,193.99 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$2,500.00 \$2,500.00 \$24,680.87 \$3,500.00 \$3,500.00 \$3,500.00 \$80,000.00 \$85,000.00
170-105 170-110 170-115 170-115 170-120 170-125 170-126 170-131 170-131 170-145 170-145 170-150 170-155	Drilling and Completion Tangibles Surface Casing 950' 8 5/8" 32# J-55 Intermediate Casing 0 0 Production Casing 5500' 5 1/2" 17# L-80 Production Liner 0 0 Production Tubing 5450' 2 7/8" 6.5# J-55 Wellhead Equipment— Long String Wellhead Equipment— Surface & Intermediate Floating Equipment— Long String Floating Equipment— Surface & Intermediate Rods Subsurfaces Equipment Linepipe Tanks, Treater, Separators	\$0.00 \$565,070.75 \$36,193.99 \$0.00 \$0.00 \$0.00 \$0.00 \$1,600.00 \$2,500.00 \$0.00 \$0.00 \$0.00 \$0.00	\$608,970.20 \$644,720.20 \$0.00 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$2,500.00 \$2,500.00 \$24,680.87 \$3,500.00 \$3,500.00 \$3,500.00	\$608,970.20 \$1,209,790.95 \$36,193.99 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$2,500.00 \$2,500.00 \$2,500.00 \$24,680.87 \$3,500.00 \$3,500.00 \$80,000.00
170-105 170-110 170-115 170-115 170-120 170-125 170-126 170-130 170-131 170-135 170-145 170-145 170-150 170-155	Drilling and Completion Tangibles Surface Casing 950' 8 5/8" 32# J-55 Intermediate Casing 0 0 Production Casing 5500' 5 1/2" 17# L-80 Production Liner 0 0 Production Tubing 5450' 2 7/8" 6.5# J-55 Wellhead Equipment— Long String Wellhead Equipment— Surface & Intermediate Floating Equipment— Long String Floating Equipment— Surface & Intermediate Rods Subsurfaces Equipment Linepipe Tanks, Treater, Separators Pumping Unit And Engine Other Miscellaneous Equipment	\$0.00 \$565,070.75 \$36,193.99 \$0.00 \$0.00 \$0.00 \$0.00 \$1,600.00 \$2,500.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$608,970.20 \$644,720.20 \$0.00 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$2,500.00 \$24,680.87 \$3,500.00 \$3,500.00 \$80,000.00 \$80,000.00 \$80,000.00	\$608,970.20 \$1,209,790.95 \$36,193.99 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$2,500.00 \$2,500.00 \$24,680.87 \$3,500.00 \$30,000.00 \$80,000.00 \$85,000.00
170-105 170-110 170-115 170-115 170-120 170-125 170-126 170-130 170-131 170-135 170-145 170-145 170-150 170-155	Drilling and Completion Tangibles Surface Casing 950' 8 5/8" 32# J-55 Intermediate Casing 0 0 Production Casing 5500' 5 1/2" 17# L-80 Production Liner 0 0 Production Tubing 5450' 2 7/8" 6.5# J-55 Wellhead Equipment— Long String Wellhead Equipment— Surface & Intermediate Floating Equipment— Surface & Intermediate Rods Subsurfaces Equipment Linepipe Tanks, Treater, Separators Pumping Unit And Engine Other Miscellaneous Equipment Contingency Total Tangible	\$0.00 \$565,070.75 \$36,193.99 \$0.00 \$0.00 \$0.00 \$0.00 \$1,600.00 \$2,500.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$608,970.20 \$644,720.20 \$0.00 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$2,500.00 \$2,500.00 \$24,680.87 \$3,500.00 \$3,500.00 \$80,000.00 \$85,000.00 \$36,271.91	\$608,970.20 \$1,209,790.95 \$36,193.99 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$2,500.00 \$2,500.00 \$24,680.87 \$3,500.00 \$30,500.00 \$80,000.00 \$80,000.00 \$40,301.31
170-105 170-110 170-115 170-115 170-120 170-125 170-126 170-130 170-131 170-135 170-145 170-145 170-150 170-155	Drilling and Completion Tangibles Surface Casing 950' 8 5/8" 32# J-55 Intermediate Casing 0 0 Production Casing 5500' 5 1/2" 17# L-80 Production Liner 0 0 Production Tubing 5450' 2 7/8" 6.5# J-55 Wellhead Equipment— Long String Wellhead Equipment— Surface & Intermediate Floating Equipment— Surface & Intermediate Rods Subsurfaces Equipment Linepipe Tanks, Treater, Separators Pumping Unit And Engine Other Miscellaneous Equipment Contingency	\$0.00 \$565,070.75 \$36,193.99 \$0.00 \$0.00 \$0.00 \$0.00 \$1,600.00 \$2,500.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$608,970.20 \$644,720.20 \$0.00 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$2,500.00 \$24,680.87 \$3,500.00 \$3,500.00 \$3,500.00 \$3,500.00 \$3,500.00 \$3,500.00 \$3,500.00 \$3,500.00 \$3,500.00 \$3,500.00 \$3,500.00 \$3,500.00 \$3,500.00	\$608,970.20 \$1,209,790.95 \$36,193.99 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$2,500.00 \$2,500.00 \$24,680.87 \$3,500.00 \$3,500.00 \$80,000.00 \$85,000.00 \$85,000.00 \$40,301.31
170-105 170-110 170-115 170-115 170-120 170-125 170-126 170-130 170-131 170-135 170-145 170-145 170-150 170-155	Drilling and Completion Tangibles Surface Casing 950' 8 5/8" 32# J-55 Intermediate Casing 0 0 Production Casing 5500' 5 1/2" 17# L-80 Production Liner 0 0 Production Tubing 5450' 2 7/8" 6.5# J-55 Wellhead Equipment— Long String Wellhead Equipment— Surface & Intermediate Floating Equipment— Surface & Intermediate Rods Subsurfaces Equipment Linepipe Tanks, Treater, Separators Pumping Unit And Engine Other Miscellaneous Equipment Contingency Total Tangible	\$0.00 \$565,070.75 \$36,193.99 \$0.00 \$0.00 \$0.00 \$0.00 \$1,600.00 \$0.	\$608,970.20 \$644,720.20 \$0.00 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$2,500.00 \$2,500.00 \$24,680.87 \$3,500.00 \$3,500.00 \$80,000.00 \$85,000.00 \$36,271.91	\$608,970.20 \$1,209,790.95 \$36,193.99 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$2,500.00 \$2,500.00 \$24,680.87 \$3,500.00 \$30,500.00 \$80,000.00 \$80,000.00 \$40,301.31
170-105 170-110 170-115 170-115 170-120 170-125 170-126 170-130 170-131 170-135 170-145 170-145 170-150 170-155	Drilling and Completion Tangibles Surface Casing 950' 8 5/8" 32# J-55 Intermediate Casing 0 0 Production Casing 5500' 5 1/2" 17# L-80 Production Liner 0 0 Production Tubing 5450' 2 7/8" 6.5# J-55 Wellhead Equipment— Long String Wellhead Equipment— Surface & Intermediate Floating Equipment— Surface & Intermediate Rods Subsurfaces Equipment Linepipe Tanks, Treater, Separators Pumping Unit And Engine Other Miscellaneous Equipment Contingency Total Tangible	\$0.00 \$565,070.75 \$36,193.99 \$0.00 \$0.00 \$0.00 \$0.00 \$1,600.00 \$0.	\$608,970.20 \$644,720.20 \$0.00 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$24,680.87 \$3,500.00 \$3,500.00 \$88,000.00 \$85,000.00 \$36,271.91 \$398,991.03	\$608,970.20 \$1,209,790.95 \$36,193.99 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$2,500.00 \$2,500.00 \$2,500.00 \$3,500.00 \$3,500.00 \$80,000.00 \$40,301.31 \$443,314.42 \$1,653,105.37

MACK ENERGY CORPORATION

AUTHORIZATION FOR EXPENDITURE

Pintail Federal #4 5500' TMD

SHL: 1650 FSL & 990 FWL

Sec. 8, T17S, R32E, Lea County, New Mexico

Code	Drilling Intangible	Dry Hole Without Pipe	Completed Well	Actual Cost
502-015	Adminstrative Overhead Drilling	\$2,000.00	\$0.00	\$2,000.00
	Location, Roads, Pits, & Damages	\$56,500.00	\$0.00	\$56,500.00
	Footage	\$0.00	\$0.00	\$0.00
	Daywork 10 days \$14000/day	\$205,500.00	\$0.00	\$205,500.00
	Rental Equipment Surface	\$61,007.50	\$0.00	\$61,007.50
502-115	Rental Equipment SubSurface	\$8,100.00	\$0.00	\$8,100.00
502-116		\$28,500.00	\$0.00	\$28,500.00
	Water-Drilling	\$23,000.00	\$0.00	\$23,000.00
	Mud Materials	\$21,000.00	\$0.00	\$21,000.00
	Cement- Surface and Intermediate	\$14,250.00	\$0.00	\$14,250.00
	Cement Production	\$0.00	\$35,750.00	\$35,750.00
	Fuel & Power Supplies & Misc.	\$19,000.00	00.00	\$19,000.00
	Testing, Coring, & Mud Logging	\$0.00 \$19,560.00	\$0.00	\$0.00 \$19,560.00
	Open Hole Logs/Wireline	\$38,565.00	\$0.00	\$38,565.00
	Directional Drillers	\$0.00	\$0.00	\$0.00
502-681		\$15,000.00	\$0.00	\$15,000.00
	Trailer Rentals & Other Camp Equip.	\$1,900.00	\$0.00	\$1,900.00
	Miscellaneous and Contingency	\$51,188.25	\$0.00	\$51,188.25
Code	Total Drilling Intangibles	\$565,070.75	\$35,750.00	\$600,820.75
	Completion Intangibles			
502-015	Adminstrative Overhead Completion	\$0.00	\$3,000.00	\$3,000.00
	Battery Construction-Dirt Work.Etc	\$0.00	\$45,000.00	\$45,000.00
	Completion Unit	\$0.00	\$60,300.00	\$60,300.00
	Fuel, Water, Power	\$0.00	\$19,500.00	\$19,500.00
502-350	Completions Surface Rentals	\$0.00	\$36,498.00	\$36,498.00
	Completions SubSurface Rentals	\$0.00	\$20,528.00	\$20,528.00
502-601	Perforating and Logging	\$0.00	\$30,000.00	\$30,000.00
502-610	Frac and/or Acid Treatment	\$0.00	\$315,306.00	\$315,306.00
502-680	Professional Services	\$0.00	\$18,750.00	\$18,750.00
502-700	Miscellaneous Services	\$0.00	\$5,000.00	\$5,000.00
	Contingency	\$0.00	\$55,088.20	\$55,088.20
	Total Completion Intensibles	\$0.00	\$608 970 20	\$608 970 20
Code	Total Completion Intangibles Total Intangibles	\$0.00 \$565.070.75	\$608,970.20 \$644,720.20	\$608,970.20
Code	Total Completion Intangibles Total Intangibles	\$0.00 \$565,070.75	\$608,970.20 \$644,720.20	\$608,970.20 \$1,209,790.95
Code				
L	Total Intangibles			
170-105	Total Intangibles Drilling and Completion Tangibles	\$565,070.75	\$644,720.20	\$1,209,790.95
170-105 170-110	Total Intangibles Drilling and Completion Tangibles Surface Casing 950' 8 5/8" 32# J-55	\$565,070.75 \$36,193.99	\$644,720.20 \$0.00	\$1,209,790.95 \$36,193.99
170-105 170-110 170-115	Total Intangibles Drilling and Completion Tangibles Surface Casing 950' 8 5/8" 32# J-55 Intermediate Casing 0 0	\$36,193.99 \$0.00	\$644,720.20 \$0.00 \$0.00	\$1,209,790.95 \$36,193.99 \$0.00
170-105 170-110 170-115 170-115 170-120	Total Intangibles	\$36,193.99 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$119,324.56 \$0.00 \$42,713.69	\$36,193.99 \$36,193.99 \$0.00 \$119,324.56 \$0.00 \$42,713.69
170-105 170-110 170-115 170-115 170-120 170-125	Total Intangibles	\$36,193.99 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$644,720.20 \$0.00 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00	\$36,193.99 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00
170-105 170-110 170-115 170-115 170-120 170-125 170-126	Total Intangibles Drilling and Completion Tangibles Surface Casing 950' 8 5/8" 32# J-55 Intermediate Casing 0 0 Production Casing 5500' 5 1/2" 17# L-80 Production Liner 0 0 Production Tubing 5450' 2 7/8" 6.5# J-55 Wellhead Equipment Long String Wellhead Equipment Surface & Intermediate	\$36,193.99 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$1,600.00	\$644,720.20 \$0.00 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$0.00	\$1,209,790.95 \$36,193.99 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$1,600.00
170-105 170-110 170-115 170-115 170-120 170-125 170-126 170-130	Drilling and Completion Tangibles Surface Casing 950' 8 5/8" 32# J-55 Intermediate Casing 0 0 Production Casing 5500' 5 1/2" 17# L-80 Production Tubing 5450' 2 7/8" 6.5# J-55 Wellhead Equipment— Long String Wellhead Equipment— Long String	\$36,193.99 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$644,720.20 \$0.00 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$0.00 \$2,500.00	\$1,209,790.95 \$36,193.99 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$1,600.00 \$2,500.00
170-105 170-110 170-115 170-115 170-120 170-125 170-126 170-130 170-131	Drilling and Completion Tangibles Surface Casing 950' 8 5/8" 32# J-55 Intermediate Casing 0 0 Production Casing 5500' 5 1/2" 17# L-80 Production Liner 0 0 Production Tubing 5450' 2 7/8" 6.5# J-55 Wellhead Equipment Long String Wellhead Equipment Surface & Intermediate Floating Equipment Surface & Intermediate	\$36,193.99 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$1,600.00 \$0.00 \$2,500.00	\$644,720.20 \$0.00 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$0.00 \$2,500.00	\$36,193.99 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$1,600.00 \$2,500.00
170-105 170-115 170-115 170-115 170-120 170-125 170-126 170-130 170-131 170-135	Total Intangibles Drilling and Completion Tangibles Surface Casing 950' 8 5/8" 32# J-55 Intermediate Casing 0 0 Production Casing 5500' 5 1/2" 17# L-80 Production Liner 0 0 Production Tubing 5450' 2 7/8" 6.5# J-55 Wellhead Equipment Long String Wellhead Equipment Surface & Intermediate Floating Equipment Surface & Intermediate Floating Equipment Surface & Intermediate Rods	\$36,193.99 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$1,600.00 \$2,500.00 \$2,500.00	\$0.00 \$0.00 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$0.00 \$2,500.00 \$24,680.87	\$36,193.99 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$2,500.00 \$2,500.00 \$2,500.00
170-105 170-115 170-115 170-115 170-120 170-125 170-126 170-130 170-131 170-135 170-140	Total Intangibles Drilling and Completion Tangibles Surface Casing 950' 8 5/8" 32# J-55 Intermediate Casing 0 0 Production Casing 5500' 5 1/2" 17# L-80 Production Liner 0 0 Production Tubing 5450' 2 7/8" 6.5# J-55 Wellhead Equipment Long String Wellhead Equipment Surface & Intermediate Floating Equipment Surface & Intermediate Floating Equipment Surface & Intermediate Rods Subsurfaces Equipment	\$36,193.99 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$1,600.00 \$2,300.00 \$0.00 \$0.00	\$644,720.20 \$0.00 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$0.00 \$2,500.00 \$0.00 \$24,680.87 \$3,500.00	\$36,193.99 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$2,500.00 \$2,500.00 \$24,680.87 \$3,500.00
170-105 170-110 170-115 170-115 170-120 170-125 170-126 170-131 170-131 170-140 170-145	Total Intangibles Drilling and Completion Tangibles Surface Casing 950' 8 5/8" 32# J-55 Intermediate Casing 0 0 Production Casing 5500' 5 1/2" 17# L-80 Production Liner 0 0 Production Tubing 5450' 2 7/8" 6.5# J-55 Wellhead Equipment Long String Floating Equipment Surface & Intermediate Floating Equipment Surface & Intermediate Rods Subsurfaces Equipment Linepipe	\$36,193.99 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$1,600.00 \$2,500.00 \$0.00 \$0.00 \$0.00	\$644,720.20 \$0.00 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$0.00 \$2,500.00 \$0.00 \$24,680.87 \$3,500.00 \$3,500.00	\$36,193.99 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$2,500.00 \$2,500.00 \$2,500.00 \$24,680.87 \$3,500.00
170-105 170-110 170-115 170-115 170-120 170-125 170-126 170-131 170-131 170-140 170-145 170-150	Drilling and Completion Tangibles Surface Casing 950' 8 5/8" 32# J-55 Intermediate Casing 0 0 Production Casing 5500' 5 1/2" 17# L-80 Production Liner 0 0 Production Tubing 5450' 2 7/8" 6.5# J-55 Wellhead Equipment Long String Wellhead Equipment Surface & Intermediate Floating Equipment Surface & Intermediate Rods Subsurfaces Equipment Linepipe Tanks,Treater,Separators	\$36,193.99 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$1,600.00 \$2,500.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$2,500.00 \$2,500.00 \$24,680.87 \$3,500.00 \$3,500.00 \$3,500.00	\$1,209,790.95 \$36,193.99 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$1,500.00 \$2,500.00 \$2,500.00 \$2,500.00 \$3,500.00 \$3,500.00 \$3,500.00 \$3,500.00
170-105 170-110 170-115 170-115 170-120 170-125 170-126 170-131 170-131 170-135 170-140 170-145 170-150 170-155	Drilling and Completion Tangibles Surface Casing 950' 8 5/8" 32# J-55 Intermediate Casing 0 0 Production Casing 5500' 5 1/2" 17# L-80 Production Liner 0 0 Production Tubing 5450' 2 7/8" 6.5# J-55 Wellhead Equipment Long String Wellhead Equipment Surface & Intermediate Floating Equipment Surface & Intermediate Rods Subsurfaces Equipment Linepipe Tanks, Treater, Separators Pumping Unit And Engine	\$36,193.99 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$1,600.00 \$2,500.00 \$0.	\$0.00 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$2,500.00 \$2,500.00 \$24,680.87 \$3,500.00 \$3,500.00 \$3,500.00 \$3,500.00 \$80,000.00	\$1,209,790.95 \$36,193.99 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$2,500.00 \$2,500.00 \$2,500.00 \$2,500.00 \$3,500.00 \$3,500.00 \$80,000.00 \$85,000.00
170-105 170-110 170-115 170-115 170-120 170-125 170-126 170-130 170-131 170-135 170-140 170-145 170-150	Drilling and Completion Tangibles Surface Casing 950' 8 5/8" 32# J-55 Intermediate Casing 0 0 Production Casing 5500' 5 1/2" 17# L-80 Production Liner 0 0 Production Tubing 5450' 2 7/8" 6.5# J-55 Wellhead Equipment Long String Wellhead Equipment Surface & Intermediate Floating Equipment Surface & Intermediate Rods Subsurfaces Equipment Linepipe Tanks,Treater,Separators	\$36,193.99 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$1,600.00 \$2,500.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$2,500.00 \$2,500.00 \$24,680.87 \$3,500.00 \$3,500.00 \$3,500.00	\$1,209,790.95 \$36,193.99 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$1,500.00 \$2,500.00 \$2,500.00 \$2,500.00 \$3,500.00 \$3,500.00 \$3,500.00 \$3,500.00
170-105 170-110 170-115 170-115 170-120 170-125 170-126 170-130 170-131 170-135 170-140 170-145 170-150	Drilling and Completion Tangibles Surface Casing 950' 8 5/8" 32# J-55 Intermediate Casing 0 0 Production Casing 5500' 5 1/2" 17# L-80 Production Liner 0 0 Production Tubing 5450' 2 7/8" 6.5# J-55 Wellhead Equipment Long String Wellhead Equipment Surface & Intermediate Floating Equipment Surface & Intermediate Rods Subsurfaces Equipment Linepipe Tanks, Treater, Separators Pumping Unit And Engine Other Miscellaneous Equipment	\$36,193.99 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$1,600.00 \$2,500.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$2,500.00 \$2,500.00 \$24,680.87 \$3,500.00 \$3,500.00 \$3,500.00 \$3,500.00 \$3,500.00 \$3,500.00	\$1,209,790.95 \$36,193.99 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$2,500.00 \$2,500.00 \$24,680.87 \$3,500.00 \$3,500.00 \$80,000.00 \$85,000.00 \$0.00
170-105 170-110 170-115 170-115 170-120 170-125 170-126 170-131 170-131 170-135 170-140 170-145 170-150 170-155	Drilling and Completion Tangibles Surface Casing 950' 8 5/8" 32# J-55 Intermediate Casing 0 0 Production Casing 5500' 5 1/2" 17# L-80 Production Liner 0 0 Production Tubing 5450' 2 7/8" 6.5# J-55 Wellhead Equipment Long String Wellhead Equipment Surface & Intermediate Floating Equipment Surface & Intermediate Rods Subsurfaces Equipment Linepipe Tanks, Treater, Separators Pumping Unit And Engine Other Miscellaneous Equipment Contingency Total Tangible	\$36,193.99 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$1,600.00 \$2,500.00 \$0.	\$0.00 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$2,500.00 \$2,500.00 \$24,680.87 \$3,500.00 \$3,500.00 \$3,500.00 \$3,500.00 \$3,500.00 \$3,500.00 \$3,500.00 \$3,500.00 \$3,500.00	\$1,209,790.95 \$36,193.99 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$2,500.00 \$2,500.00 \$2,500.00 \$3,500.00 \$3,500.00 \$3,500.00 \$3,500.00 \$40,301.31
170-105 170-110 170-115 170-115 170-120 170-125 170-126 170-131 170-131 170-135 170-140 170-145 170-150 170-155	Drilling and Completion Tangibles Surface Casing 950' 8 5/8" 32# J-55 Intermediate Casing 0 0 Production Casing 5500' 5 1/2" 17# L-80 Production Liner 0 0 Production Tubing 5450' 2 7/8" 6.5# J-55 Wellhead Equipment Long String Wellhead Equipment Surface & Intermediate Floating Equipment Surface & Intermediate Rods Subsurfaces Equipment Linepipe Tanks, Treater, Separators Pumping Unit And Engine Other Miscellaneous Equipment Contingency	\$36,193.99 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$1,600.00 \$2,500.00 \$0.	\$0.00 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$2,500.00 \$2,500.00 \$24,680.87 \$3,500.00 \$3,500.00 \$80,000.00 \$80,000.00 \$35,000.00 \$36,271.91	\$1,209,790.95 \$36,193.99 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$2,500.00 \$2,500.00 \$2,500.00 \$3,500.00 \$3,500.00 \$80,000.00 \$80,000.00 \$40,301.31
170-105 170-110 170-115 170-115 170-120 170-125 170-126 170-131 170-131 170-135 170-140 170-145 170-150 170-155	Drilling and Completion Tangibles Surface Casing 950' 8 5/8" 32# J-55 Intermediate Casing 0 0 Production Casing 5500' 5 1/2" 17# L-80 Production Liner 0 0 Production Tubing 5450' 2 7/8" 6.5# J-55 Wellhead Equipment Long String Wellhead Equipment Surface & Intermediate Floating Equipment Surface & Intermediate Rods Subsurfaces Equipment Linepipe Tanks, Treater, Separators Pumping Unit And Engine Other Miscellaneous Equipment Contingency Total Tangible	\$36,193.99 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$1,600.00 \$2,500.00 \$0.	\$0.00 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$2,500.00 \$2,500.00 \$24,680.87 \$3,500.00 \$3,500.00 \$3,500.00 \$3,500.00 \$3,500.00 \$3,500.00 \$3,500.00 \$3,500.00 \$3,500.00	\$1,209,790.95 \$36,193.99 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$2,500.00 \$2,500.00 \$2,500.00 \$3,500.00 \$3,500.00 \$3,500.00 \$3,500.00 \$40,301.31
170-105 170-110 170-115 170-115 170-120 170-125 170-126 170-131 170-131 170-135 170-140 170-145 170-150 170-155	Drilling and Completion Tangibles Surface Casing 950' 8 5/8" 32# J-55 Intermediate Casing 0 0 Production Casing 5500' 5 1/2" 17# L-80 Production Liner 0 0 Production Tubing 5450' 2 7/8" 6.5# J-55 Wellhead Equipment Long String Wellhead Equipment Surface & Intermediate Floating Equipment Surface & Intermediate Rods Subsurfaces Equipment Linepipe Tanks, Treater, Separators Pumping Unit And Engine Other Miscellaneous Equipment Contingency Total Tangible TOTAL WELL COSTS	\$36,193.99 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$1,600.00 \$2,500.00 \$0.00	\$644,720.20 \$0.00 \$0.00 \$119,324.56 \$0.00 \$42,713.69 \$1,500.00 \$0.00 \$2,500.00 \$2,500.00 \$3,500.00 \$3,500.00 \$35,000.00 \$36,071.91 \$398,991.03	\$36,193,99 \$0.00 \$119,324,56 \$0.00 \$42,713.69 \$1,500.00 \$2,500.00 \$2,500.00 \$2,500.00 \$3,500.00 \$3,500.00 \$3,500.00 \$40,301.31 \$443,314.42 \$1,653,105.37