Manzano, LLC

P.O. Box 1737

Roswell, New Mexico 88202-1737

(575) 623-1996

October 9, 2017

EOG Resources, Inc EOG Y, EOG A, EOG M 104 S. 4th St. Artesia, NM 88210

Attention: Nathan Stephenson

RE: Well Proposal and AFE

Rag Mama 30-19 Fee #1H ("Well")

Surface Location: 25' FSL & 528' FEL of Section 30-T9S-R35E

Bottom Hole Location: 2310' FSL & 528' FEL of Section 19-T9S-R35E

Lea County, New Mexico

Dear Nathan:

I have just received the approved compulsory pooling order from the NMOCD for the above referenced Rag Mama 30-19 Fee #1H well (see attached Order No. R-14476). As you may recall, EOG and Manzano have reached an agreement in which EOG would not oppose Manzano at the compulsory pooling hearing before the NMOCD on 8/31/17 in exchange for the well information from this well.

One of the requirements within the Order is for Manzano to "furnish the Division and each known pooled working interest owner in the Unit an itemized schedule of estimated costs of drilling, completing and equipping the proposed well ("well costs")". In this case, EOG is a pooled working interest owner. EOG then has 30 days from your receipt of this letter and AFE in which to elect to participate in the drilling of the proposed well. Should you elect not to participate in the drilling of the well you shall be deemed as a "non-consenting working interest owner' and shall be subject to Manzano recouping its cost plus an additional 200% for the risk associated with the operations.

Please accept this letter and the attached "AFE" as our compliance with said requirement of Order No. R-14476. I have provided the NMOCD a copy of this letter and AFE.

Dependent on rig scheduling, Manzano intends to commence drilling operations on the proposed well sometime between October 15th and November 15th. We have already built, and are currently filling, the frac pit for this well.

Should you wish to participate in the drilling of the proposed well as to your proportionate working interest, please execute and return one copy of the attached AFE at your very earliest convenience.

Nathan, I appreciate the assistance that you have provided on this matter. Should you have any questions or need anything from me please do not hesitate to contact me.

Sincerely,

11/1/

Mike Hanagan, Manager

CC: NMOCD - Mr. Will Jones

MANZANO, LLC

Authority For Expenditure

			PA	GE 1 of
OPERATOR	AFE #		DATE	
MANZANO, LLC	ľ	4	10/9/2017	
WELL NAME AND NUMBER	FIELD OR PROS	PECT	m	
RAG MAMA 30 FEE #1H	JENKINS	}		
LOCATION	SECTION	TOWNSHIP	RANGE	
SL: 50'FSL & 528'FEL of SEC 30 - BHL: 2310'FSL & 528'FEL of SEC 19	19 & 30	9S	35E	
PROJECT DESCRIPTION AND LOCATION	COUNTY		STATE	
DRILL & COMPLETE 1.5 MILE LATERAL IN SAN ANDRES	LEA		NEW MEXICO PROPOSED DEPTH (Ind/md)	
w/7mm# frac & w/satellite battery (no pilot hole)	PROPOSED FO	RMATION		
	SAN AND	RES	4850TVD/12,000'MD	

INTANGIBLES	Cost To	Completion	
	Casing Point	Costs	TOTAL
Footage			
Drilling on Day Work - BCP	\$181,250		\$181,250
Drilling on Day Work - ACP		\$21,750	\$21,750
Drilling Rig - Move In/Move Out & Rig Up/Rig Down	\$100,000		\$100,000
Completion Rig & Coiled Tubing Unit		\$100,000	\$100,000
Survey, Permit, Damages, ROW & Legal	\$48,000	\$25,000	\$73,000
Road, Location, Pits, Fencing	\$80,000	\$110,000	\$190,000
Bits & Casing Tools	\$35,000		\$35,000
Rig Fuel	\$39,000	\$6,500	\$45,500
Mud and Chemicals	\$50,000		\$50,000
Drilling & Completion Water	\$35,000	\$160,000	\$195,000
Cementing and Cement Equipment	\$42,000	\$100,000	\$142,000
Mud Logging, Coring & DST's	\$15,000		\$15,000
Open Hote Logging			
Cased Hole Logging & Wireline Services		\$120,000	\$120,000
Equipment Rentals	\$155,000	\$200,000	\$355,000
Directional Services	\$150,000		\$150,000
Acidizing, Fracing & Stimulation		\$1,360,000	\$1,360,000
Tubular Inspection/Repair, Nipple Up	\$10,000	\$5,000	\$15,000
Casing Crews, Tools and Services	\$13,000	\$7,000	\$20,000
Labor & Installation		\$90,000	
Supervision	\$28,000	\$35,000	
Well Control Insurance	\$7,500		
Administrative Overhead	\$6,000	\$6,000	\$12,000
Production Testing & Flowback		\$10,000	\$10,000
Abandonment Expense			
Disposal of Fluids/Cuttings	\$90,000	\$15,000	
Miscellaneous Costs, Tax and Contingencies	\$25,181	\$77,385	\$102,566
TOTAL INTANGIBLES	\$1,109,931	\$2,448,635	\$3,293,066

TANGIBLES						Drilling	Completion	TOTAL	
CASING	FOOTAGE	SIZE	WEIGHT	GRADE	С	OST/FT			
Conductor					\$	-			
Surface	2400	8 5/8"	32#	J55	\$	19.50	\$46,800		\$46,800
Surface					S				
Intermediate					\$]		
Intermediate	<u> </u>				\$	-			
Liner	<u> </u>				\$	-			
Production	12000	5 1/2"	20#	L80	\$	16.25	1	\$195,000	\$195,000
Production					\$]		
Tubing	4200	2 7/8'	6.5#	J55	\$	5.00	l	\$21,000	\$21,000
Subsurface Equip	pment & Pumps								
Wellhead Equips	ment						\$3,000	\$17,000	\$20,000
Pumping Unit									
Flowlines								\$50,000	\$50,000
Tanks & Storage	•								
Separation Equip	ment							\$40,000	\$40,000
Gas Sales Line &	Equipment								
Electrical, Instru	mentation & Mo	nitoring						\$75,000	\$75,000
Valves, Connect	ions, Pumps & f	Meters					<u> </u>	\$30,000	\$30,000
				TOTAL TAN	GIBLES	3	\$49,800	\$428,000	\$477,800
				TOTAL WELL	L COST	rs	\$1,159,731	\$2,876,635	\$4,036,366
			1	ROUNDED P	ROJE	CT COST	\$1,160,000	\$2,877,000	\$4,037,000

EOG Researces WI-BCP 45.00000%			EOG Resources - DRY HOLE \$522,000	EOG Resources - COMI	PLETED WELL COST \$1,816,650
EOG Resources WI-ACP 45.00000%			EOG Resources - COMPLETION COST \$1,294,650	BY:	MIKE HANAGAN
		•	JOINT INTEREST SHARE	-	
COMPANY NAME Signature				DATE	
EOG Resources		BY:			
COMPANY OWNERSHIP-%			COMPANY COST-DRY HOLE COST	COMPANY COST-COM	PLETION COST
wi-BCP 45,00%	WI-ACP	45.00%	\$522,000		\$1,294,650

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION TO CONSIDER:

CASE NO. 15804 ORDER NO. R-14476

APPLICATION OF MANZANO LLC FOR A NON-STANDARD SPACING AND PRORATION UNIT, A NON-STANDARD PROJECT AREA, AND COMPULSORY POOLING, LEA COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This case came on for hearing at 8:15 a.m. on August 31, 2017, at Santa Fe, New Mexico, before Examiner William V. Jones.

NOW, on this 5th day of October, 2017, the Division Director, having considered the testimony, the record and the recommendations of the Examiner,

FINDS THAT:

- (1) Due public notice has been given and the Division has jurisdiction of this case and the subject matter.
- (2) Manzano LLC (the "Applicant") seeks approval of a 240-acre non-standard oil spacing and proration unit and project area (the "Unit") for oil and gas production from the San Andres formation, Jenkins; San Andres Pool (Pool code 33950), comprising the E/2 E/2 of Section 30, Township 9 South, Range 35 East and the E/2 SE/4 of Section 19, Township 9 South, Range 35 East, NMPM, Lea County, New Mexico. Applicant further seeks an order pooling all uncommitted interests in the Unit for the San Andres formation.
- (3) The Unit will be dedicated to Applicant's Rag Mama 30 19 Fee Well No. 1H (the "proposed well"; API No. 30-025-Pending), a horizontal well to be drilled from a surface location 25 feet from the South line and 528 feet from the East line (Unit P) of Section 30, Township 9 South, Range 35 East, to a bottom-hole location 2310 feet from the South line and 528 feet from the East line (Unit I) of Section 19, Township 9 South, Range 35 East, NMPM. The location of the completed interval will be standard for this horizontal oil well within the Unit.

Division Rule 19.15.15.9(A) NMAC, which provides for 330-foot setbacks from the unit boundaries and standard 40-acre units each comprising a governmental quarter-quarter section. The proposed Unit and project area consists of six adjacent quarter-quarter sections oriented south to north.

- (5) Applicant appeared through counsel and presented the following land and geologic evidence:
 - (a) the San Andres formation in this area is suitable for development by horizontal drilling;
 - (b) the proposed orientation of the horizontal well from south to north is appropriate for the Unit;
 - (c) all quarter-quarter sections to be included in the Unit are expected to be productive in the San Andres formation, so that the Unit as requested will not impair correlative rights;
 - (d) there are four separately owned fee tracts within the proposed Unit;
 - (e) notice by certified mail was provided to all uncommitted interest owners in the proposed Unit whose interests were evidenced by a conveyance instrument, either of record or known to Applicant when the Application was filed, and to heirs known to Applicant of deceased persons who appear as owners in such instruments, and whose whereabouts could be ascertained by exercise of reasonable diligence; and
 - (f) those potentially affected parties whose whereabouts could not be ascertained were noticed by publication as provided in Rule 19.15.4.12.B NMAC.
 - (6) No other party appeared or otherwise opposed this application.

The Division concludes as follows:

- (7) The proposed non-standard unit should be approved to enable Applicant to drill a horizontal well that will efficiently produce the reserves underlying the Unit, thereby preventing waste and protecting correlative rights.
- (8) Two or more separately owned tracts are embraced within the Unit, and/or there are royalty interests and/or undivided interests in oil and gas minerals in one or more tracts included in the Unit that are separately owned.

Applicant has the right to drill and proposes to drill the proposed well to a common source of supply within the Unit at the proposed location.

- (10) There are interest owners in the Unit that have not agreed to pool their interests.
- (11) To avoid the drilling of unnecessary wells, protect correlative rights, prevent waste and afford to the owner of each interest in the Unit the opportunity to recover or receive without unnecessary expense a just and fair share of hydrocarbons, this application should be approved by pooling all uncommitted interests, whatever they may be, in the oil and gas within the Unit.
- (12) Manzano LLC (OGRID 231429) should be designated the operator of the proposed well and the Unit.
- (13) Any pooled working interest owner who does not pay its share of estimated well costs should have withheld from production its share of reasonable well costs plus an additional 200% thereof as a reasonable charge for the risk involved in drilling the proposed well.
- (14) Reasonable charges for supervision (combined fixed rates) should be fixed at \$7000 per month per well while drilling and \$700 per month per well while producing, provided that these rates should be adjusted annually pursuant to the overhead adjustment provision of the COPAS form titled "Accounting Procedure-Joint Operations."

IT IS THEREFORE ORDERED THAT:

- (1) Pursuant to the application of Manzano LLC, a 240-acre non-standard oil spacing and proration unit and project area (the "Unit") is hereby established for oil and gas production from the San Andres formation, Jenkins; San Andres Pool (Pool code 33950), comprising the E/2 E/2 of Section 30, Township 9 South, Range 35 East and the E/2 SE/4 of Section 19, Township 9 South, Range 35 East, NMPM, Lea County, New Mexico.
- (2) All uncommitted interests, whatever they may be, in the oil and gas in the San Andres formation underlying the Unit, are hereby pooled.
- (3) The Unit shall be dedicated to Applicant's Rag Mama 30 19 Fee Well No. 1H (the "proposed well"; API No. 30-025-Pending), a horizontal well to be drilled from a surface location 25 feet from the South line and 528 feet from the East line (Unit P) of Section 30, Township 9 South, Range 35 East, to a bottom-hole location 2310 feet from the South line and 528 feet from the East line (Unit I) of Section 19, Township 9 South, Range 35 East, NMPM. The location of the completed interval will be standard for this horizontal oil well within the Unit.

before October 31, 2018, and shall thereafter continue drilling the proposed well with due diligence to test the San Andres formation.

- (5) In the event the operator does not commence drilling the proposed well on or before October 31, 2018, Ordering Paragraphs (1) and (2) shall be of no effect, unless the operator obtains a time extension from the Division Director for good cause demonstrated by satisfactory evidence.
- (6) Should the proposed well not be drilled and completed within 120 days after commencement thereof, then Ordering Paragraphs (1) and (2) shall be of no further effect, and the Unit and project area created by this order shall terminate, unless operator appears before the Division Director and obtains an extension of the time for completion of the proposed well for good cause shown by satisfactory evidence. If the proposed well is not completed in all of the standard spacing units included in the proposed project area (or Unit) then the operator shall apply to the Division for an amendment to this order to contract the Unit so that it includes only those standard spacing units in which the well is completed.
- (7) Upon final plugging and abandonment of the proposed well and any other well drilled on the Unit pursuant to Division Rule 19.15.13.9 NMAC, the pooled Unit shall terminate, unless this Order has been amended to authorize further operations.
- (8) Manzano LLC (OGRID 231429) is hereby designated the operator of the well and the Unit.
- (9) After pooling, uncommitted working interest owners are referred to as pooled working interest owners. ("Pooled working interest owners" are owners of working interests in the Unit, including unleased mineral interests, who are not parties to an operating agreement governing the Unit.) After the effective date of this order, the operator shall furnish the Division and each known pooled working interest owner in the Unit an itemized schedule of estimated costs of drilling, completing and equipping the proposed well ("well costs").
- (10) Within 30 days from the date the schedule of estimated well costs is furnished, any pooled working interest owner shall have the right to pay its share of estimated well costs to the operator in lieu of paying its share of reasonable well costs out of production as hereinafter provided, and any such owner who pays its share of estimated well costs as provided above shall remain liable for operating costs but shall not be liable for risk charges. Pooled working interest owners who elect not to pay their share of estimated well costs as provided in this paragraph shall thereafter be referred to as "non-consenting working interest owners."
- (11) The operator shall furnish the Division and each known pooled working interest owner (including non-consenting working interest owners) an itemized schedule of actual well costs within 90 days following completion of the proposed well. If no

objected, within 45 days following receipt of the schedule, the actual well costs shall be deemed to be the reasonable well costs. If there is an objection to actual well costs within the 45-day period, the Division will determine reasonable well costs after public notice and hearing.

- (12) Within 60 days following determination of reasonable well costs, any pooled working interest owner who has paid its share of estimated costs in advance as provided above shall pay to the operator its share of the amount that reasonable well costs exceed estimated well costs and shall receive from the operator the amount, if any, that the estimated well costs it has paid exceed its share of reasonable well costs.
- (13) The operator is hereby authorized to withhold the following costs and charges from each non-consenting owner's share of production from each well:
 - (a) The proportionate share of reasonable well costs attributable to such interest; and
 - (b) As a charge for the risk involved in drilling the well, 200% of the above costs.
- (14) The operator shall distribute the costs and charges withheld from production, proportionately, to the parties who advanced the well costs.
- (15) Reasonable charges for supervision (combined fixed rates) are hereby fixed at \$7000 per month per well while drilling and \$700 per month per well while producing, provided that these rates may, at the election of the operator, be adjusted annually pursuant to the overhead adjustment provisions of the COPAS form titled "Accounting Procedure-Joint Operations." The operator is authorized to withhold from production the proportionate share of both the supervision charges and the actual expenditures required for operating the well(s), not more than what are reasonable, attributable to each pooled working interest owner.
- (16) Except as provided above, all proceeds from production from the proposed well that are not disbursed for any reason shall be held for the account of the person or persons entitled thereto pursuant to the Oil and Gas Proceeds Payment Act (NMSA 1978 Sections 70-10-1 through 70-10-6, as amended). If not disbursed, such proceeds shall be turned over to the appropriate authority as and when required by the Uniform Unclaimed Property Act (NMSA 1978 Sections 7-8A-1 through 7-8A-31, as amended).
- (17) Any unleased mineral interest shall be considered a seven-eighths (7/8) working interest and a one-eighth (1/8) royalty interest for allocating costs and charges under this Order. Any well costs or charges that are to be paid out of production shall be withheld only from the working interests' share of production, and no costs or charges shall be withheld from production attributable to royalty interests.

agreement after entry of this order, this order shall thereafter be of no further effect.

(19) The operator of the well and the Unit shall notify the Division in writing of the subsequent voluntary agreement of parties subject to the compulsory pooling provisions of this order.

(20) Jurisdiction of this case is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

SEA

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

DAVID R. CATANACH Director

MANZANO, LLC

Authority For Expenditure

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DPERATOR	ÄFE#		DATE	
MANZANO, LLC		4	10/9/2017	
WELL NAME AND NUMBER	FIELD OR PROS	SPECT	m	
RAG MAMA 30 FEE #1H	JENKINS	;		
OCATION	SECTION	TOWNSHIP	RANGE	
SL: 50'FSL & 528'FEL of SEC 30 - BHL: 2310'FSL & 528'FEL of SEC 19	19 & 30	9S .	35E	
ROJECT DESCRIPTION AND LOCATION	COUNTY		STATE NEW MEXICO PROPOSED DEPTH (IVd/md)	
DRILL & COMPLETE 1.5 MILE LATERAL IN SAN ANDRES	LEA			
w/7mm# frac & w/satellite battery (no pilot hole)	PROPOSED FO	PRMATION		
	SAN AND	RES	4850TVD/12,000'MD	
COMMENTS:		<u> </u>		

INTANGIBLES	Cost To	Completion	
	Casing Point	Costs	TOTAL
Footage			
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Drilling on Day Work - ACP		\$21,750	\$21,75
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Abandonment Expense			_
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TOTAL INTANGIBLES	\$1,109,931	\$2,448,635	\$3,293,0
TANGIRI ES	Drilling	Completion	TOTAL

	·	TANG	Drilling	Completion	TOTAL				
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Surface	2400	8 5/8"	32#	J55	\$	19.50	\$46,800		\$46,800
Surface					\$	-			
Intermediate					\$	-			
Intermediate					\$	-			
Liner					\$	-			
Production	12000	5 1/2"	20#	L80	\$	16.25		\$195,000	\$195,000
Production					\$	-			
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Subsurface Equip	ment & Pumps								
Wellhead Equipment							\$3,000	\$17,000	\$20,000
Pumping Unit									
Flowlines				\$50,000	\$50,000				
Tanks & Storage	•								
Separation Equip	ment							\$40,000	\$40,000
Gas Sales Line &	Equipment								
Electrical, Instru	mentation & Mo	nitoring						\$75,000	\$75,000
Valves, Connections, Pumps & Meters								\$30,000	\$30,000
TOTAL TANGIBLES						\$49,800	\$428,000	\$477,800	
TOTAL WELL COSTS						\$1,159,731	\$2,876,635	\$4,036,366	
ROUNDED PROJECT COST							\$1,160,000	\$2,877,000	\$4,037,000

EOG Resources		EOG Resources - DRY HOLE	EOG Resources - COMPLETED WELL COST
wi-BCP 45.00000%		\$522,000	\$1,816,650
EOG Resources	_	EOG Resources - COMPLETION COST	BY:
wi-acp 45.00000%		\$1,294,650	MIKE HANAGAN
		JOINT INTEREST SHARE	
COMPANY NAME	Signature		DATE
EOG Resources	BY:		
COMPANY OWNERSHIP-%		COMPANY COST-DRY HOLE COST	COMPANY COST-COMPLETION COST
WI-BCP 45.00% WI-ACP	45 00%	\$522,000	\$1 294 650