

RECEIVED: 08/09/2018	REVIEWER: LW	TYPE: PL	APP NO: D1MAM18221 46510
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ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

**NEW MEXICO OIL CONSERVATION DIVISION**  
 - Geological & Engineering Bureau -  
 1220 South St. Francis Drive, Santa Fe, NM 87505



**ADMINISTRATIVE APPLICATION CHECKLIST**

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

<b>Applicant:</b> EOG Resources, Inc. P.O. Box 2267 Midland, TX 79702	<b>OGRID Number:</b> 7377
<b>Well Name:</b> Thor 21 701H and other wells	<b>API:</b> 30-025-41667
<b>Pool:</b> Red Hills; Upper Bone Spring Shale & Sanders Tank; Upper Wolfcamp	<b>Pool Code:</b> 97900 & 98097

**SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED BELOW**

- 1) **TYPE OF APPLICATION:** Check those which apply for [A]
- A. Location - Spacing Unit - Simultaneous Dedication  
 NSL       NSP (PROJECT AREA)       NSP (PRORATION UNIT)       SD
- B. Check one only for [I] or [II]
- [I] Commingling - Storage - Measurement  
 DHC    CTB    PLC    PC    OLS    OLM
- [II] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  
 WFX    PMX    SWD    IPI    EOR    PPR

*PL-1325*

- 2) **NOTIFICATION REQUIRED TO:** Check those which apply.
- A.  Offset operators or lease holders  
 B.  Royalty, overriding royalty owners, revenue owners  
 C.  Application requires published notice  
 D.  Notification and/or concurrent approval by SLO  
 E.  Notification and/or concurrent approval by BLM  
 F.  Surface owner  
 G.  For all of the above, proof of notification or publication is attached, and/or,  
 H.  No notice required

FOR OCD ONLY	
<input type="checkbox"/>	Notice Complete
<input type="checkbox"/>	Application Content Complete

3) **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

**Note: Statement must be completed by an individual with managerial and/or supervisory capacity.**

Stan Wagner

Print or Type Name

*Stan Wagner*

Signature

08/09/2018

Date

432-686-3689

Phone Number

stan\_wagner@eogresources.com

e-mail Address



P.O. Box 2267, Midland, Texas 79702  
Phone: (432) 686-3600 Fax: (432) 686-3773

Date: August 3rd, 2018

To: State of New Mexico Oil Conservation Division

Re: Surface Pool/Lease Commingling Application;  
Thor 21 #701H, Thor 21 #702H, Thor 21 #705H, Thor 21 #706H, Thor 21 #709H, & Thor 21 #201H

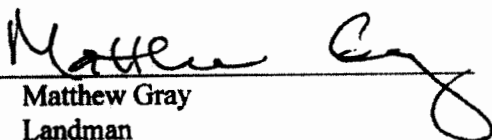
To whom it may concern:

This letter serves to notice you that the ownership of the following wells is identical in working, royalty, and overriding royalty interest and percentages:

	API	WELL NAME	WELL#	LOCATION	POOL CODE/NAME	STATUS
1	30-025-41667	Thor 21	#701H	P-21-26S-33E	SANDERS TANK / UPWC [98097]	Permitted
2	30-025-42480	Thor 21	#702H	P-21-26S-33E	SANDERS TANK / UPWC [98097]	Permitted
3	30-025-42727	Thor 21	#705H	P-21-26S-33E	SANDERS TANK / UPWC [98097]	Permitted
4	30-025-42728	Thor 21	#706H	P-21-26S-33E	SANDERS TANK / UPWC [98097]	Permitted
5	30-025-43897	Thor 21	#709H	P-21-26S-33E	SANDERS TANK / UPWC [98097]	Permitted
6	30-025-44950	Thor 21	#201H	A-21-26S-33E	Red Hills/ Upper Bone Spring Shale [97900]	Permitted

I certify that this information is true and correct to the best of my knowledge.  
Sincerely,

**EOG Resources, Inc.**

By:   
Matthew Gray  
Landman

**APPLICATION FOR SURFACE POOL/LEASE COMMINGLING - BLM**

EOG Resources, Inc. ("EOG") respectfully requests approval to surface pool/lease commingle oil & gas from the following wells:

	API	WELL NAME	WELL#	LOCATION	POOL CODE/NAME	STATUS	*Gravities	*GAS BTU/MCFPD
1	30-025-41667	Thor 21	#701H	P-21-26S-33E	SANDERS TANK / UPWC [98097]	Permitted	*44	1298.3/230.26
2	30-025-42480	Thor 21	#702H	P-21-26S-33E	SANDERS TANK / UPWC [98097]	Permitted	*44	1281.5/143.37
3	30-025-42727	Thor 21	#705H	P-21-26S-33E	SANDERS TANK / UPWC [98097]	Permitted	*44	1315.7/301.83
4	30-025-42728	Thor 21	#706H	P-21-26S-33E	SANDERS TANK / UPWC [98097]	Permitted	*44	1301.7/375.54
5	30-025-43897	Thor 21	#709H	P-21-26S-33E	SANDERS TANK / UPWC [98097]	Permitted	*44	1343/830.52
6	30-025-44950	Thor 21	#201H	A-21-26S-33E	Red Hills/ Upper Bone Spring Shale [97900]	Permitted	*44	1333/376.25

\*projected, pending completion

**GENERAL INFORMATION:**

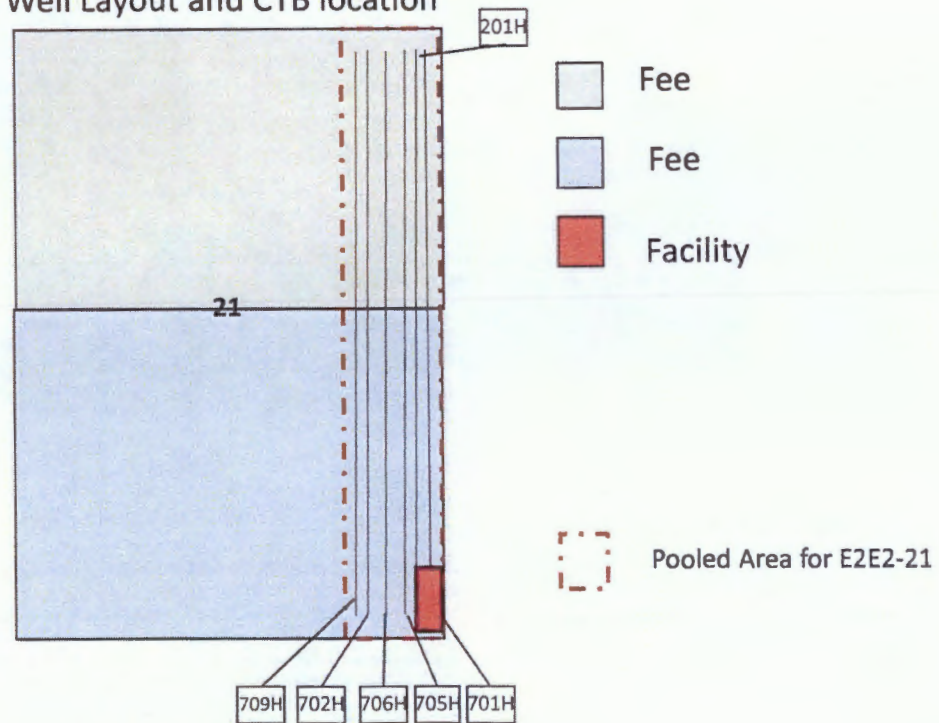
- Fee Acreage in the E/2E/2 section 21 in Township 26 South, Range 33 East, Lea County, New Mexico.
- The acreage has been pooled from the Top of the Bone Spring formation to the base of the Wolfcamp formation. See Designation of Pooled Thor 21 Horizontal Unit @ Book 1953, Page 62, Lea Co. New Mexico.
- The central tank battery to service the subject wells is located in the SESE of section 21-26S-33E.
- Ownership is identical in each of the subject wells.
- An application to commingle production from the subject wells is being submitted to the NMSLO and the NMOCD.
- Enclosed herewith is (1) a map that displays the leases, the location of the subject wells, and the proposed CTB, (2) a process flow diagram, (3) and the C-102 plat for each of the wells.

**Process and Flow Descriptions:**

The production from each well will flow into a dedicated 3-phase separator. The production stream will be separated into 3 independent streams (gas, oil, and water) by the separator and each stream will be measured individually after it exits the separator. The gas will be measured

Thor 21 #701H, #702H, #705H, #706H, & #201  
Section 21-26S-33E  
Lea County, NM

Well Layout and CTB location



# FACILITY NAME: THOR 21 CTB

WELL NAME:  
THOR 21 #701H  
API NUMBER:  
30-025-41667

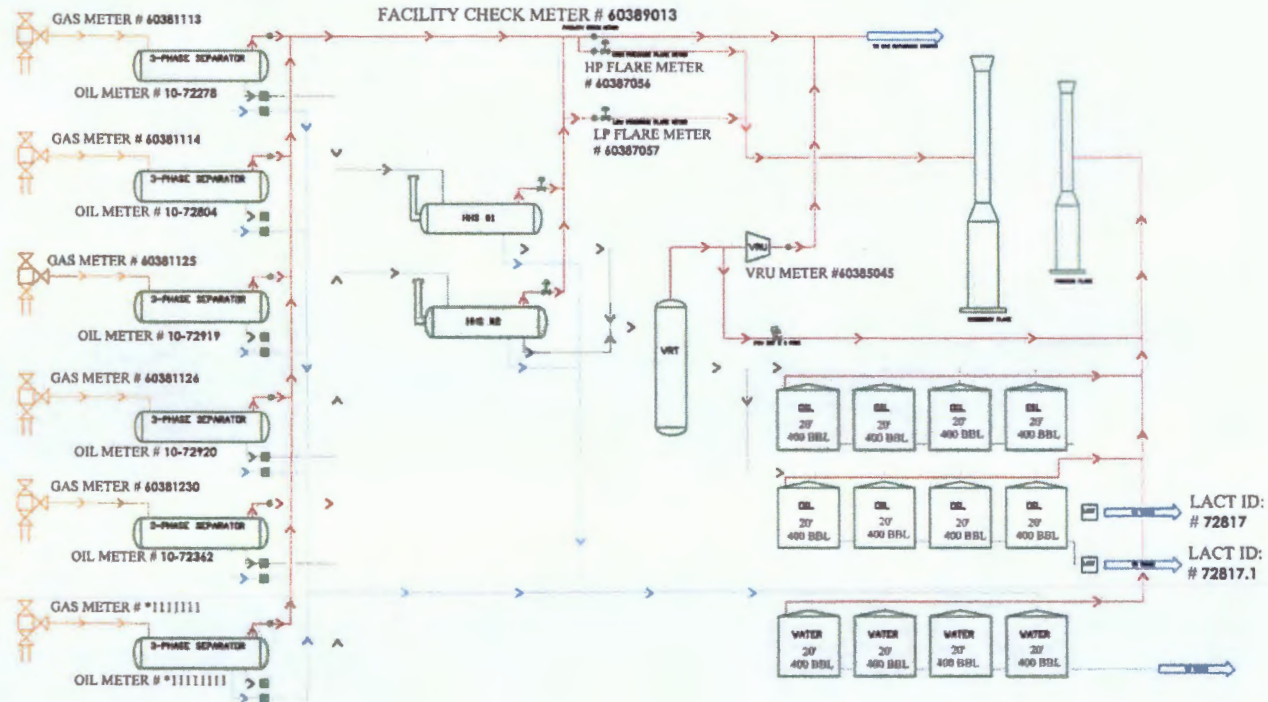
WELL NAME:  
THOR 21 #702H  
API NUMBER:  
30-025-42480

WELL NAME:  
THOR 21 #705H  
API NUMBER:  
30-025-42727

WELL NAME:  
THOR 21 #706H  
API NUMBER:  
30-025-42728

WELL NAME:  
THOR 21 #709H  
API NUMBER:  
30-025-43897

WELL NAME:  
THOR 21 #201H  
API NUMBER:  
30-025-44950



Gas Orifice Meter  
 Liquid Meter

\*Test meter numbers will be provided upon installation of meters and completion of the facility.

THOR 21 CTB PROCESS FLOW		
EDG RESOURCES MIDLAND DIVISION	BY: BKW	rev. 00 08/03/2018

using a senior orifice meter and used to allocate total volume measured at the facility check meter, high pressure flare meter, and low pressure flare meter.

THOR 21 #701H gas allocation meter is an Emerson orifice meter (S/N 60381113)

THOR 21 #702H gas allocation meter is an Emerson orifice meter (S/N 60381114)

THOR 21 #705H gas allocation meter is an Emerson orifice meter (S/N 60381125)

THOR 21 #706H gas allocation meter is an Emerson orifice meter (S/N 60381126)

THOR 21 #709H gas allocation meter is an Emerson orifice meter (S/N 60381230)

THOR 21 #201H gas allocation meter is an Emerson orifice meter (S/N \*11111111)

The oil from the separators will be measured using a Coriolis meter.

THOR 21 #701H oil allocation meter is a FMC Coriolis meter (S/N 10-72278)

THOR 21 #702H oil allocation meter is a FMC Coriolis meter (S/N 10-72804)

THOR 21 #705H oil allocation meter is a FMC Coriolis meter (S/N 10-72919)

THOR 21 #706H oil allocation meter is a FMC Coriolis meter (S/N 10-72920)

THOR 21 #709H oil allocation meter is a FMC Coriolis meter (S/N 10-72362)

THOR 21 #201H oil allocation meter is a FMC Coriolis meter (S/N \*11111111)

The water will be measured using a vortex meter. The water from each separator is combined in a common header and flows into (4) 500 barrel coated steel tanks. Guided wave radar is used to measure water volumes in these tanks. The oil from each separator will be combined into a common header and flow into a heated horizontal separator (HHS) to aid separation of water entrained in the oil. Water from the heated separator flows into the common water header connected to the (4) 500 barrel water tanks. The water is then pumped and/or trucked to a salt water disposal well. The oil from the heated separator flows through a vapor recovery tower (VRT) where gas is allowed to breakout at a lower pressure, and then the oil flows into (8) 500 barrel coated steel tanks. Guided wave radar is used to measure water and oil volumes in these tanks. Oil is pumped out of the tanks through a Coriolis meter into a truck or a pipeline. Every tank utilizes a guided wave radar to determine the volume of product in each. After the gas from each separator is measured it is combined into a common header. The gas from the heated separator also flows into this header. The gas flows through the header to a custody transfer Emerson orifice meter (#60389013) that serves as our lease production meter. If the pipeline is experiencing problems and cannot take any gas, the gas will flow through the high pressure and low pressure flare meters (#60387056 and #60387057) to the flare. The overhead gas from the vapor recovery tower is compressed by a vapor recovery compressor and then measured by a custody transfer Emerson orifice meter (#60385045). The gas from the vapor recovery system combines with the gas from the lease production meter and flows into our gas gathering pipeline system.

\*Meter numbers will be provided upon installation of meters and completion of the facility.



APPLICATION FOR, COMMINGLING AT A COMMON CENTRAL TANK BATTERY

Proposal for THOR 21 CTB:

EOG Resources, Inc. is requesting approval to commingle the following wells in a common central tank battery:

**Federal Lease # NM #####**

Well Name	Location	API #	Pool	Oil BPD	Gravities	MSCFPD	BTU
THOR 21 #701H		30-025-41667		114.81	*44	230.26	1298.3
THOR 21 #702H		30-025-42480		123.01	*44	143.37	1281.5
THOR 21 #705H		30-025-42727		114.71	*44	301.83	1315.7
THOR 21 #706H		30-025-42728		197.15	*44	375.54	1301.7
THOR 21 #709H		30-025-43897		335.73	*44	830.52	1343
THOR 21 #201H		30-025-44950		*177	*44	*376.25	*1333

\*Estimated numbers for these wells; will provide actual numbers once these wells are producing.

District I  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720

District II  
811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720

District III  
1000 Rio Brazos Road, Afton, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-025-41667		<sup>2</sup> Pool Code 98097		<sup>3</sup> Pool Name WC-025 G-09 S263327G; Upper Wolfcamp	
<sup>4</sup> Property Code 40402		<sup>5</sup> Property Name THOR 21			<sup>6</sup> Well Number #701H
<sup>7</sup> OGRID No. 7377		<sup>8</sup> Operator Name EOG RESOURCES, INC.			<sup>9</sup> Elevation 3252'

<sup>10</sup>Surface Location

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
P	21	26-S	33-E	-	230'	SOUTH	380'	EAST	LEA

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
A	21	26-S	33-E	-	674	NORTH	389	EAST	LEA

<sup>11</sup> Dedicated Acres 160	<sup>12</sup> Joint or Infill	<sup>13</sup> Consolidation Code	<sup>14</sup> Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

<p><sup>15</sup>21</p>	<p><b>BOTTOM HOLE LOCATION</b> NEW MEXICO EAST NAD 1927 X=736704 Y=377488 LAT.: N 32.8354877 LONG.: W 103.9884758</p>		<p><b><sup>17</sup>OPERATOR CERTIFICATION</b> I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or undivided mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>Stan Wagner</i> 12/04/14 Signature Date</p> <p>Stan Wagner Printed Name</p> <p>E-mail Address</p>
	<p><b>LOWER MOST PERF.</b> NEW MEXICO EAST NAD 1927 X=736704 Y=377288 LAT.: N 32.8351928 LONG.: W 103.9884758</p>		<p><b><sup>18</sup>SURVEYOR CERTIFICATION</b> I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true to the best of my belief.</p> <p>Date of Survey Signature and  </p>
	<p><b>UPPER MOST PERF.</b> NEW MEXICO EAST NAD 1927 X=736737 Y=377244 LAT.: N 32.8224882 LONG.: W 103.9884758</p>		<p>Certificate Number</p>
	<p><b>SURFACE LOCATION</b> NEW MEXICO EAST NAD 1927 X=736738 Y=372844 LAT.: N 32.8222132 LONG.: W 103.9884757</p>		



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FORM C-102

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AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-025-42480		<sup>2</sup> Pool Code 98097		<sup>3</sup> Pool Name WC-025 G-09 S263327G; Upper Wolfcamp	
<sup>4</sup> Property Code 40402		<sup>5</sup> Property Name THOR 21			<sup>6</sup> Well Number #702H
<sup>7</sup> GRID No. 7377		<sup>8</sup> Operator Name EOG RESOURCES, INC.			<sup>9</sup> Elevation 3252'

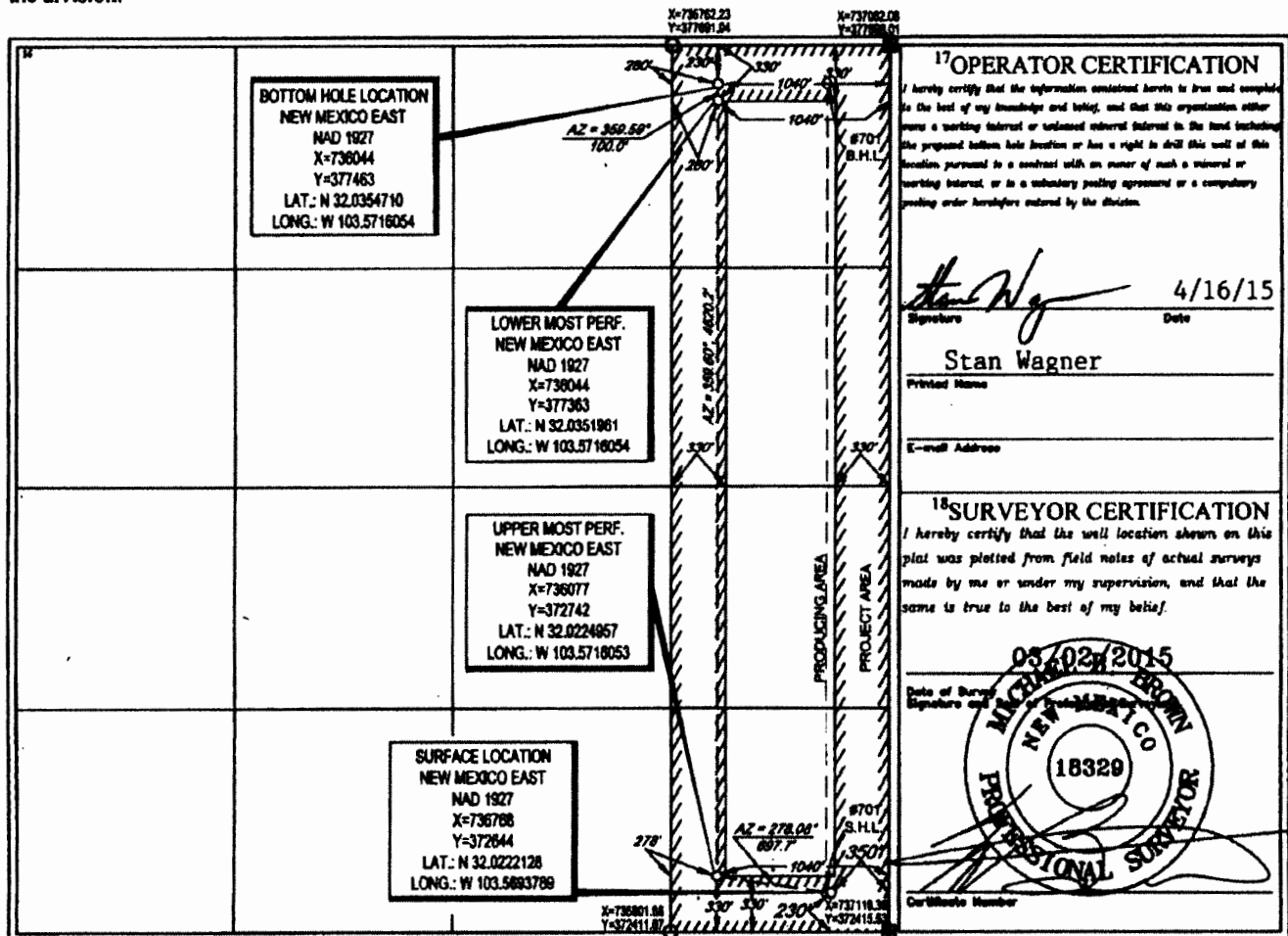
<sup>10</sup>Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	21	26-S	33-E	-	230'	SOUTH	350'	EAST	LEA

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	21	26-S	33-E	-	231	NORTH	1044	EAST	LEA

<sup>11</sup> Dedicated Acres 160.00	<sup>12</sup> Joint or Infill	<sup>13</sup> Consolidation Code	<sup>14</sup> Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



S:\SURVEY\EOG\_MIDL\THOR\_21\_PERF\FINAL\_PRODUCT\EOG\_THOR21\_702H\_REV1.DWG 01/4/2015 3:30:38 PM ezam

SEP 23 2015 SEP 21 2015

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State of New Mexico **HOBBS OGD**  
Energy, Minerals & Natural Resources  
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**OIL CONSERVATION DIVISION**  
1220 South St. Francis Dr.  
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AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

<sup>1</sup> API Number 30-025- 42727		<sup>2</sup> Pool Code 98097		<sup>3</sup> Pool Name WC-025 G-09 S263327G Upper Wolfcamp	
<sup>4</sup> Property Code 40402		<sup>5</sup> Property Name THOR 21			<sup>6</sup> Well Number #705H ✓
<sup>7</sup> OGRID No. 7377		<sup>8</sup> Operator Name EOG RESOURCES, INC.			<sup>9</sup> Elevation 3259'

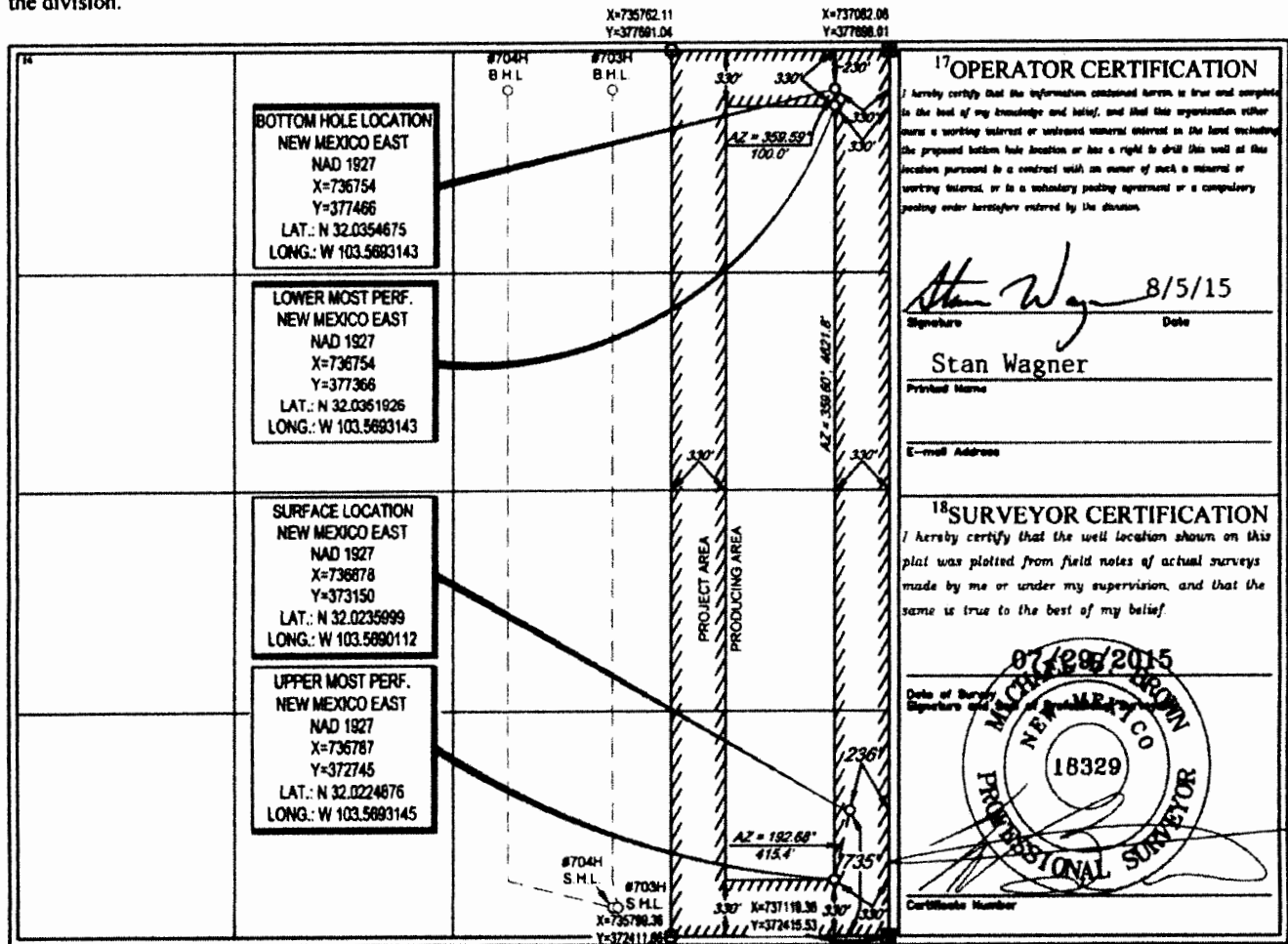
<sup>10</sup>Surface Location

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
P	21	26-S	33-E	-	735'	SOUTH	236'	EAST	LEA

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
A	21	26-S	33-E	-	206	NORTH	323	EAST	LEA

<sup>11</sup> Dedicated Acres 160.00	<sup>12</sup> Joint or Infill	<sup>13</sup> Consolidation Code	<sup>14</sup> Order No.
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**WELL LOCATION AND ACREAGE DEDICATION PLAT**

API Number 30-025-		Pool Code 98097	Pool Name WC-025 G-09 S263327G Upper Wolfcamp
Property Code 40402	Property Name THOR 21		Well Number #706H
OGRID No. 7377	Operator Name EOG RESOURCES, INC.		Elevation 3258'

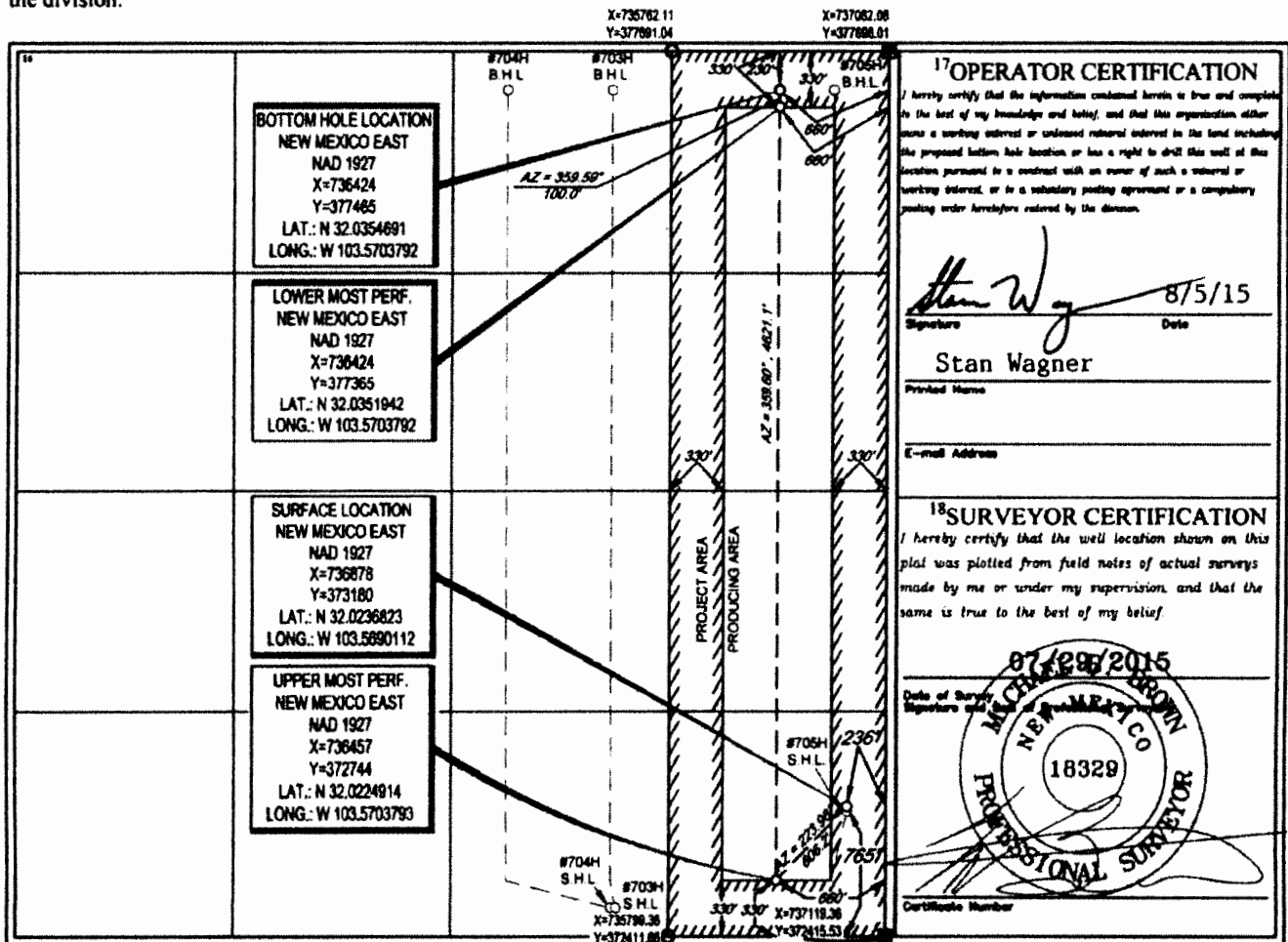
<sup>10</sup>Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	21	26-S	33-E	-	765'	SOUTH	236'	EAST	LEA

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	21	26-S	33-E	-	214	NORTH	654	EAST	LEA

Dedicated Acres 160.00	Joint or Infill	Consolidation Code	Order No.
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AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

API Number 30-025-43897		Pool Code 98097	Pool Name Sanders Tank; Upper Wolfcamp	
Property Code 40402	Property Name THOR 21		Well Number #709H	
OGRID No. 7377	Operator Name EOG RESOURCES, INC.		Elevation 3253'	

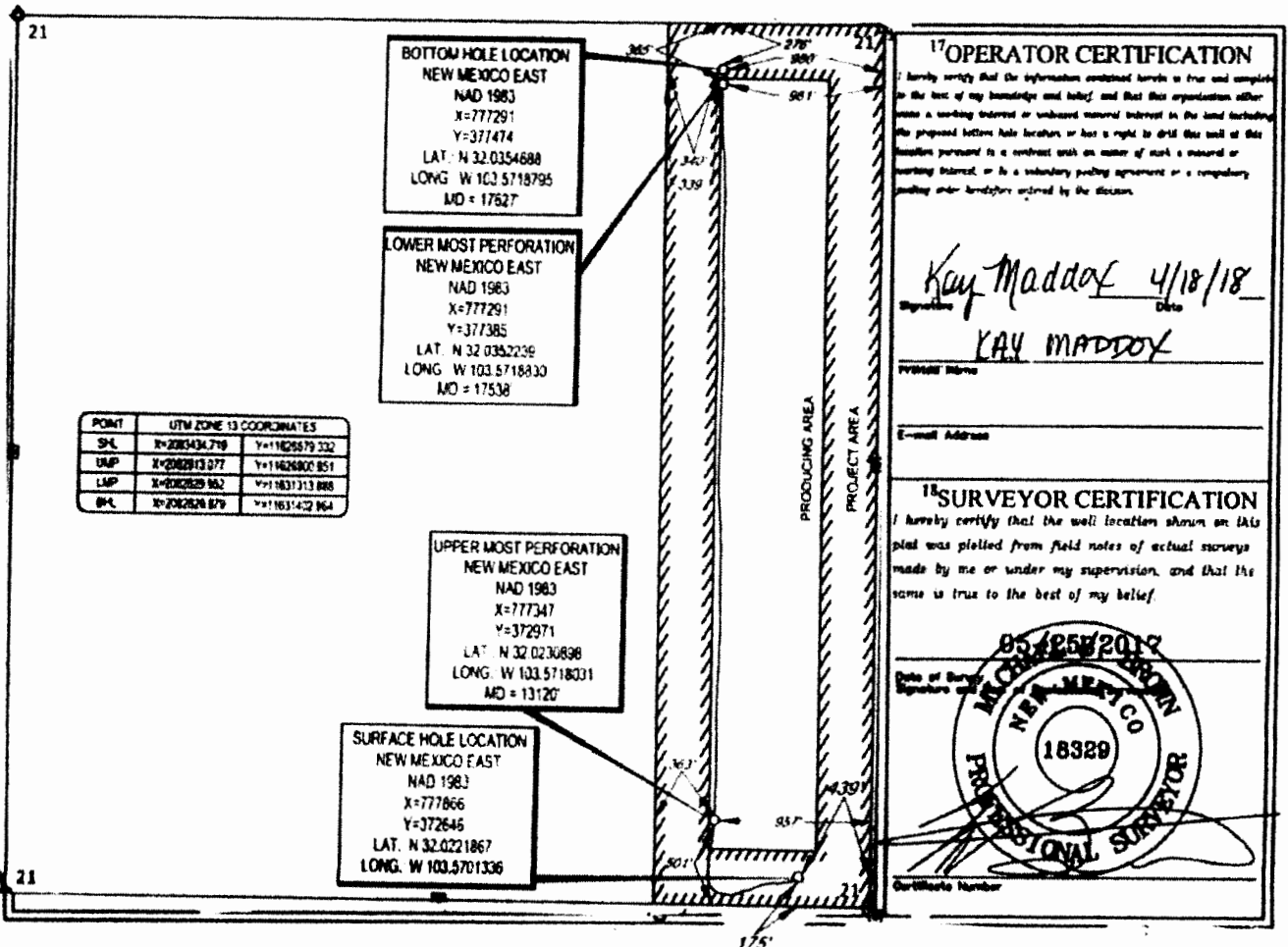
**10 Surface Location**

UL or lot no.	Section	Township	Range	Lot Id	Feet from the	North/South line	Feet from the	East/West line	County
P	21	26-S	33-E	-	175'	SOUTH	439'	EAST	LEA

UL or lot no.	Section	Township	Range	Lot Id	Feet from the	North/South line	Feet from the	East/West line	County
A	21	26-S	33-E	-	276'	NORTH	980'	EAST	LEA

Dedicated Acres 180.00	Joint or Infill	Consolidation Code	Order No.
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**WELL LOCATION AND ACREAGE DEDICATION PLAT**

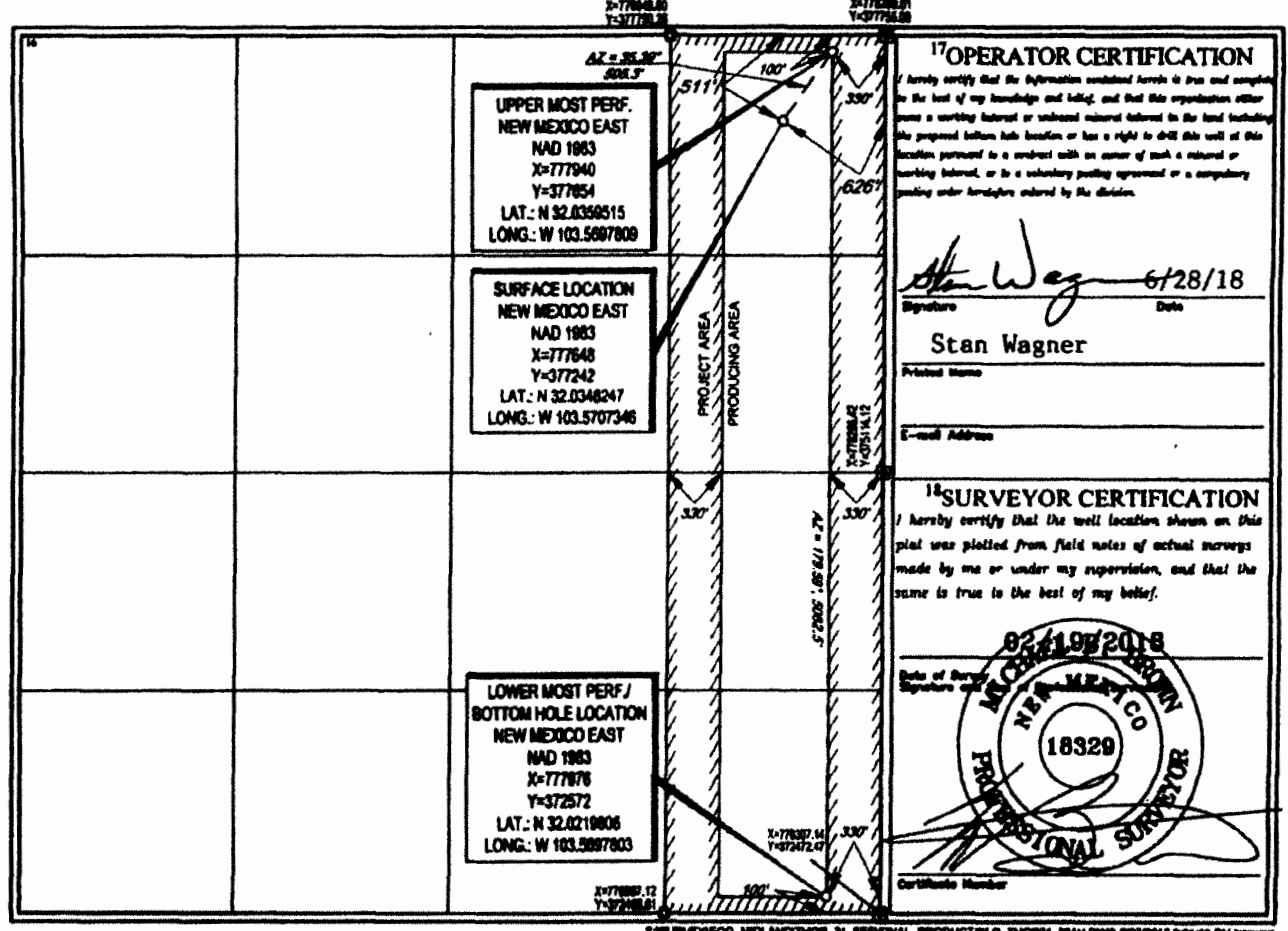
<sup>1</sup> API Number 30-025- <b>44950</b>		<sup>2</sup> Pool Code 97900	<sup>3</sup> Pool Name Red Hills; Upper Bone Spring Shale
<sup>4</sup> Property Code 40402	<sup>5</sup> Property Name <b>THOR 21</b>		<sup>6</sup> Well Number <b>#201H</b>
<sup>7</sup> OCRID No. 7377	<sup>8</sup> Operator Name <b>EOG RESOURCES, INC.</b>		<sup>9</sup> Elevation <b>3285'</b>

<sup>10</sup>Surface Location

UL or lot no.	Section	Township	Range	Lot Id	Feet from the	North/South line	Feet from the	East/West line	County
A	21	26-S	33-E	-	511'	NORTH	626'	EAST	LEA
P	21	26-S	33-E	-	100'	SOUTH	330'	EAST	LEA

<sup>11</sup> Dedicated Acres 160.00	<sup>12</sup> Job# or Infill	<sup>13</sup> Consolidation Code	<sup>14</sup> Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



Monthly Production Data

Thor 21 701H

Month End Date	Oil - Prod	Oil - Sales	Gas - Prod	Gas - Sales	Water - Prod	MMBTU
5/31/2018 0:00	3205	3225	6085	6072	8187	7983
6/30/2018 0:00	2988	2917	5323	5283	5945	7723
7/31/2018 0:00	3388	3453	6717	6717	6541	8077

Monthly Production Data

Thor 21 702H

Month End Date	Oil - Prod	Oil - Sales	Gas - Prod	Gas - Sales	Water - Prod	MMBTU
5/31/2018 0:00	3914	3932	5777	5765	6417	7556
6/30/2018 0:00	3909	3803	6467	6420	5465	8305
7/31/2018 0:00	4080	4180	6079	6079	6012	7029

Monthly Production Data

Thor 21 705H

Month End Date	Oil - Prod	Oil - Sales	Gas - Prod	Gas - Sales	Water - Prod	MMBTU
5/31/2018 0:00	3246	3250	8736	8718	25595	11743
6/30/2018 0:00	3281	3190	8773	8708	22371	12750
7/31/2018 0:00	3093	3191	9057	9056	24616	12021

Monthly Production Data

Thor 21 706H

Month End Date	Oil - Prod	Oil - Sales	Gas - Prod	Gas - Sales	Water - Prod	MMBTU
5/31/2018 0:00	5037	5180	7779	7762	14923	10604
6/30/2018 0:00	3953	3893	6059	6015	11460	8460
7/31/2018 0:00	4664	4742	9895	9895	12610	12772



Monthly Production Data

Thor 21 709H

Month End Date	Oil - Prod	Oil - Sales	Gas - Prod	Gas - Sales	Water - Prod	MMBTU
5/31/2018 0:00	10340	10432	25550	25495	35277	35801
6/30/2018 0:00	9855	9608	25088	24902	30311	33283
7/31/2018 0:00	10731	10962	27900	27899	33350	39557