

Submit 1 Copy To Appropriate District  
Office  
District I - (575) 393-6161  
1625 N. French Dr., Hobbs, NM 88240  
District II - (575) 748-1283  
811 S. First St., Artesia, NM 88210  
District III - (505) 334-6178  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV - (505) 476-3460  
1220 S. St. Francis Dr., Santa Fe, NM  
87505

State of New Mexico  
Energy, Minerals and Natural Resources

Form C-103  
Revised July 18, 2013

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

WELL API NO. Multiple
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Black River 374 State 24 27 15
8. Well Number Multiple
9. OGRID Number 372098
10. Pool name or Wildcat Multiple

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	
2. Name of Operator Marathon Oil Permian LLC	
3. Address of Operator 5555 San Felipe St., Houston, TX 77056	
4. Well Location Unit Letter <u>N</u> : _____ feet from the _____ line and _____ feet from the _____ line Section <u>15</u> Township <u>24S</u> Range <u>27E</u> NMPM County <u>EDDY</u>	
11. Elevation (Show whether DR, RKB, RT, GR, etc.)	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>			
CLOSED-LOOP SYSTEM <input type="checkbox"/>			
OTHER: Request to commingle <input checked="" type="checkbox"/>		OTHER: <u>PL-1336</u> <input type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Marathon Oil Permian LLC is requesting approval to commingle different pools on the lease. The value of the oil and gas will not be affected with the approval of this commingle request. Please see the attached pool commingle request. Wells will be accurately measured with daily measurement at separation. Notices have been mailed to all interest owners.

Wells to be commingled:

Name	Location	API	Pool
Black River 374 State 24 27 15 WXY 3H	N-15-24S-27E (270 FSL & 1806 FWL)	30-015-44504	Purple Sage; Wolfcamp (98220)
Black River 374 State 24 27 15 WA 8H	N-15-24S-27E (271 FSL & 1906 FWL)	30-015-44505	Purple Sage; Wolfcamp (98220)
Black River 374 State 24 27 15 TB 10H	N-15-24S-27E (271 FSL & 1856 FWL)	30-015-44506	Willow Lake (West); Bone Spring (96415)

OCT 18 2018 AM 10:43

Spud Date:

Rig Release Date:

Recommend Signature, Subject Like Approval nmslu  
I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE

Adrian Covarrubias

TITLE

CTR - Technician HES

DATE

10/17/2018

Type or print name

Adrian Covarrubias

E-mail address:

acovarrubias@marathonoil.com

PHONE:

713-296-3368

For State Use Only

APPROVED BY:

Mark Riley

TITLE

Director

DATE

11/13/18

Conditions of Approval (if any):

Revised March 23, 2017

RECEIVED: 10/18/2018	REVIEWER: m Amy	TYPE: PL	APP NO: PMAM18291 42876
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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

**Applicant:** Marathon Oil Permian LLC**OGRID Number:** 372098**Well Name:** Black River 374 State 24 27 15 TB 10H, WA 8H, WXY 3H**API:** 30-015-44506; 30-015-44505; 30-015-44504**Pool:** Purple Sage Wolfcamp; Willow Lake (West); Bone Spring**Pool Code:** 98220; 96415

**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

**2) NOTIFICATION REQUIRED TO:** Check those which apply.

A. ☐ Offset operators or lease holdersB. ☒ Royalty, overriding royalty owners, revenue ownersC. ☐ Application requires published noticeD. ☒ Notification and/or concurrent approval by SLOE. ☐ Notification and/or concurrent approval by BLMF. ☐ Surface ownerG. ☒ 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.**

Jennifer Van Curen

Date

Print or Type Name

713-296-2500

Phone Number

jvancuren@marathonoil.com

e-mail Address

*Jennifer Van Curen*  
 Signature

**Process and Flow Descriptions:**

The central tank battery is located on the Black River State Com multi-well pad location in Sec 15, T24S, R27E. The production from each well will flow through its own three phase metering separator with a Micro Motion Coriolis Meter to meter the oil, Mag meter to meter the water, and an orifice meter to meter the gas. VRU gas will be allocated back to each well utilizing a percentage of each wells monthly oil production. After the water is measured with the Mag meter, it is combined with the water for the other wells and with any water knockout from the heater treater and sent to the water tanks. The water tanks have guided wave radar level transmitters which can detect oil/water interfaces. If an interface is seen the operator will use the recycle pump to pump this interface and any oil to the heater treater for further processing.

The Black River State Com CTB will have four oil tanks that these three wells will utilize and they have a common CDP, (Central Delivery Point) (**Number provided upon receipt**) which is located on site. Oil, gas, and water volumes from each well producing to this battery will be determined by using individual metering allocation separator. Oil sold through a common sales line for tanks (information provided upon receipt).

Oil production will be allocated on a daily basis based on the Coriolis Test meter located downstream of the metering test separator and daily tank gauges and truck LACT. The Coriolis meters will be proven, as per API & NMOCD specifications, when installed, once per month for the first 3 months (to establish a consistent repeatability factor), and then quarterly thereafter, the factor obtained will be used to allocate the production volumes. Gas production will be allocated on a daily basis utilizing the gas test meters for each well. The gas production from the wells and the gas test meters will commingle and flow to an allocation meter and then to the CDP sales meter, (**number provided upon receipt**) these meters will be calibrated on a regular basis per API & NMOCD specifications. The OCD will be notified of any future changes in the facilities.

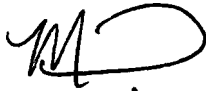
**Reasoning:**

The flow of produced fluids is shown in detail on the enclosed Black River State Com CTB Process Flow Diagrams along with a description of each vessel. The commingling of this production is the most effective, economic means of producing the reserves and will not result in reduced royalty or improper measurement of production. The proposed commingling will reduce the surface facility footprint and overall emissions.

I have confirmed that the working, royalty and overriding royalty interests are identical for the Black River 374 State 24 27 15 WXY 3H, WA 8H and TB 10H wells located in Section 15, T24S-R27E, Eddy County.

Should you have any questions or need further details please let me know.

Thank you

A handwritten signature in black ink, appearing to be 'MT' with a stylized flourish.

Matt S. Tate, CPL  
Land Professional – Permian Basin

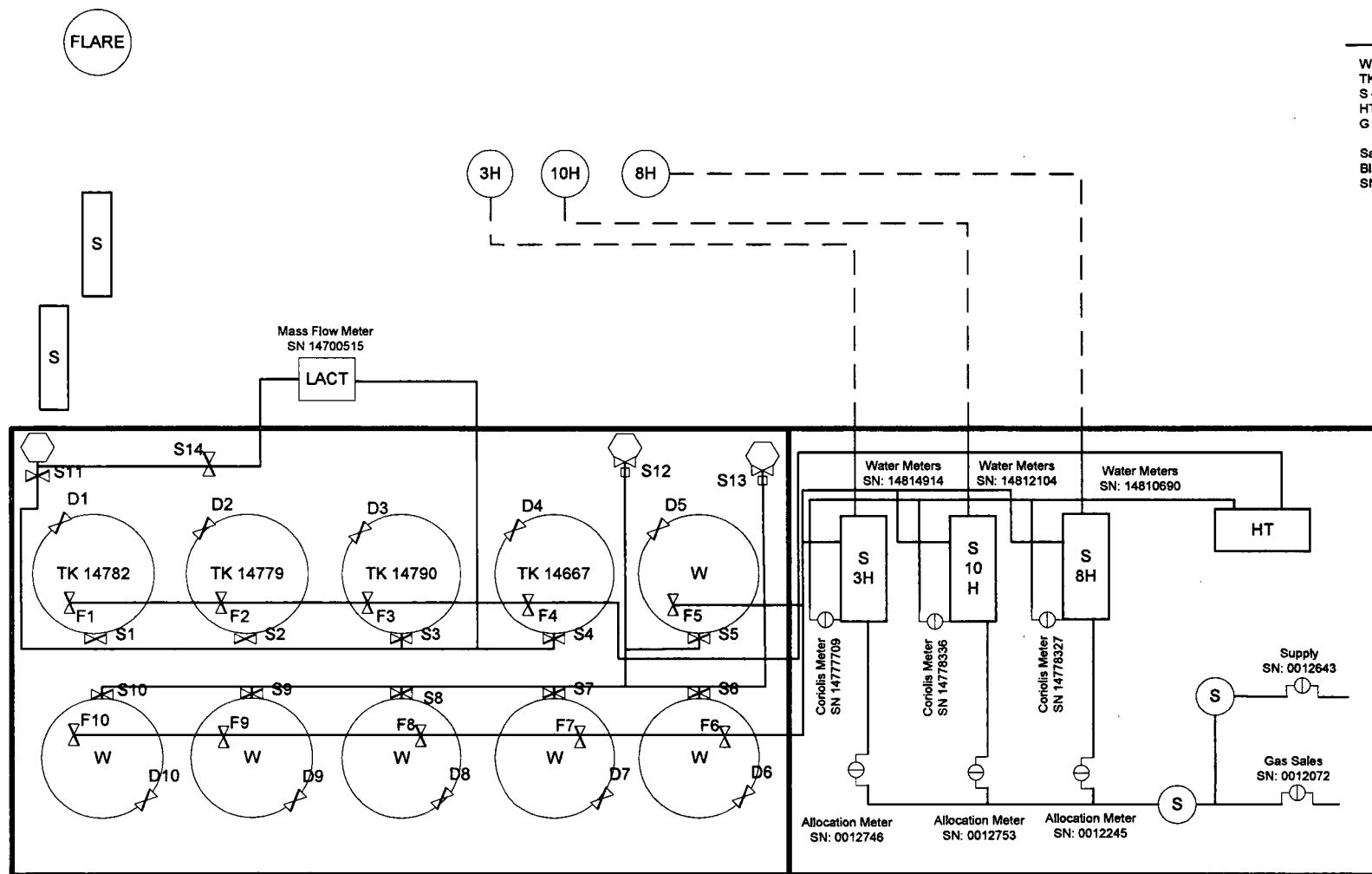
Marathon Oil Company  
5555 San Felipe Street  
Houston, TX 77056  
Telephone 713.296.2164 Mobile 832.499.2029  
Fax 713.235.8033  
[matthewstate@marathonoil.com](mailto:matthewstate@marathonoil.com)



# KEY/NOTES

W – Water Storage Tank  
TK – Oil Storage Tank  
S – Separator  
HT – Heater Treater  
G – Generator

Same Master Meter as  
Black River 2H, 5H, 6H  
SN: T180307310



## FIGURE TITLE

**BLACK RIVER 374 24 27 15 3H, 8H, 10H CTB**

API **30-015-44504**  
**30-015-44505**  
**30-015-44506**

LEASE

CA #

OPERATOR **MARATHON OIL PERMIAN, LLC**  
**5555 SAN FELIPE ST, HOUSTON, TX 77056**

LOCATION **EDDY COUNTY, NM**

**N-15-T24S-R27E**  
**271 FSL & 1856 FEL**

**LAT 32.1089052**  
**LONG -104.17984853**

DATE **SEP 2018**

SCALE **NOT TO SCALE**

DRAWN BY **AC**

APPROVED BY **JVC**

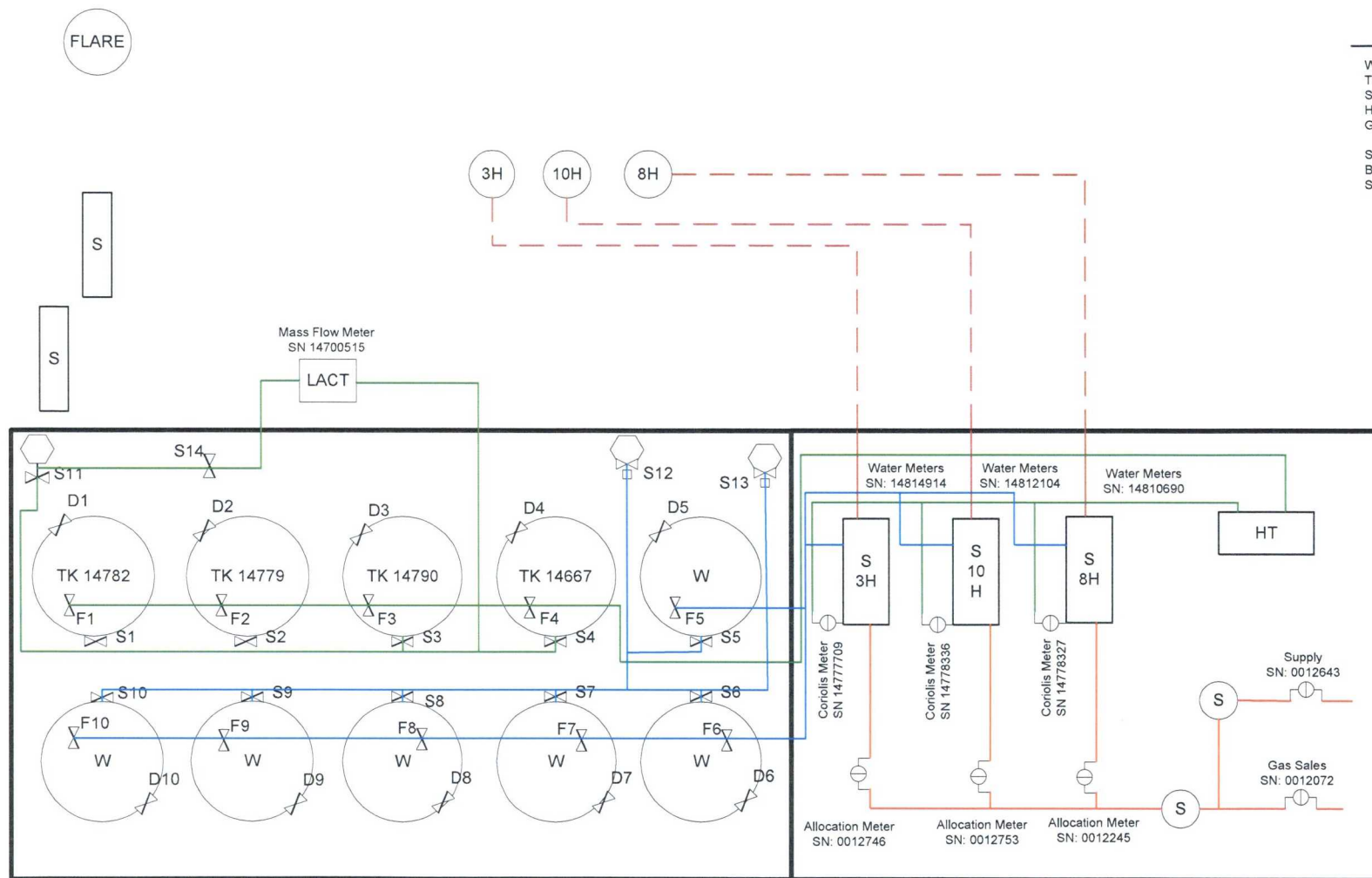




# KEY/NOTES

W – Water Storage Tank  
TK – Oil Storage Tank  
S – Separator  
HT – Heater Treater  
G – Generator

Same Master Meter as  
Black River 2H, 5H, 6H  
SN: T180307310



## FIGURE TITLE

**BLACK RIVER 374 24 27 15 3H, 8H, 10H CTB**

API **30-015-44504**  
**30-015-44505**  
**30-015-44506**

LEASE

CA #

## OPERATOR

**MARATHON OIL PERMIAN, LLC**  
**5555 SAN FELIPE ST, HOUSTON, TX 77056**

## LOCATION

**EDDY COUNTY, NM**

**N-15-T24S-R27E**  
**271 FSL & 1856 FEL**

**LAT 32.1089052**  
**LONG -104.17984853**

DATE **SEP 2018**

SCALE **NOT TO SCALE**

DRAWN BY **AC**

APPROVED BY **JVC**



T24S  
R27E

V03772 0002

15

BLACK RIVER 374 STATE  
24 27 15 3H, 8H, 10H

3H 7H  
BLACK RIVER 15 10 STATE COM

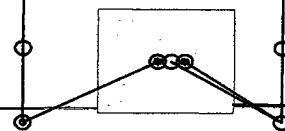
2H 5H 6H

15

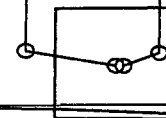
V03772 0002

15

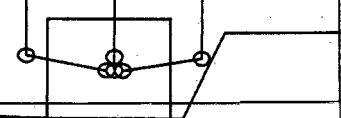
T24S  
R27E



BLACK RIVER 374 STATE  
24 27 15 3H, 8H, 10H



3H 7H  
BLACK RIVER 15 10 STATE COM



2H 5H 6H



**Matt S. Tate, CPL**  
Land Professional  
Permian Basin



**Marathon Oil Company**  
5555 San Felipe  
Houston, TX 77056  
Telephone 713.296.2164  
Fax 713.235.8033  
matthewstate@marathonoil.com

October 11, 2018

**DELIVERED VIA:**  
Certified Mail

RKI Exploration & Production, LLC  
a subsidiary of WPX Energy, Inc.  
3500 One Williams Center, MD 35  
Tulsa, OK 74172

Re: Marathon Oil Permian LLC Application For Surface Commingling  
Black River 374 State 24 27 15 WXY 3H, WA 8H and TB 10H  
Section 15, T24S-R27E, Eddy County, New Mexico

Gentlemen,

Marathon Oil Permian LLC ("Marathon") has filed the attached application with the New Mexico Oil Conservation Division ("Division") for administrative approval to surface lease commingle production according to the provisions of NMAC 19.15.12.10.C, from the Purple Sage Wolfcamp formation, Pool 98220, and the Malaga Bone Spring formation, Pool 42800, from existing and future wells, to a central tank battery located on the Black River 374 State 24 27 15 multi-well pad in the located in Section 15, T24S-R27E, Eddy County, New Mexico.

Currently the Black River 374 State 24 27 WXY 3H and WA 8H are producing from the Wolfcamp formation and the TB 10H is producing from the Bone Spring formation.

As a working interest and/or royalty interest owner in these wells, Marathon is required to notify you of this application. Any objections must be filed in writing with the Division within 20 days from the date the Division receives Marathon's application.

Should you have any questions please do not hesitate to contact me at **713-296-2164** or by email at [matthewstate@marathonoil.com](mailto:matthewstate@marathonoil.com).

Sincerely,

A handwritten signature in black ink, appearing to be 'MT', written over a horizontal line.

**Matt S. Tate, CPL**  
Permian Basin

Marathon Oil Permian LLC - Application For Surface Commingling  
Black River 374 State 24 27 15 Central Tank Battery

**Certified No. 91 7199 9991 7037 7636 1305**

RKI Exploration & Production, LLC  
a subsidiary of WPX Energy, Inc.  
3500 One Williams Center, MD 35  
Tulsa, OK 74172

**Certified No. 91 7199 9991 7037 7636 1299**

Commissioner of Public Lands  
310 Old Santa Fe Trail  
Santa Fe, New Mexico 87504-1148

Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office  
☐ AMENDED REPORT

NOTE: ALL DIMENSIONS IN U.S. FEET

District I  
1625 N. French Dr., Hobbs, NM 88240  
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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

Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-015-44505	<sup>2</sup> Pool Code 98220	<sup>3</sup> Pool Name PURPLE SAGE; WOLFCAMP
<sup>4</sup> Property Code	<sup>5</sup> Property Name BLACK RIVER 374 STATE 24-27-15 WA	<sup>6</sup> Well Number 8H
<sup>7</sup> OGRID No. 372098	<sup>8</sup> Operator Name MARATHON OIL PERMIAN LLC	<sup>9</sup> Elevation 3223'

<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
N	15	T24S	R27E		271'	SOUTH	1906'	WEST	EDDY

<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	15	T24S	R27E		286'	NORTH	2295'	WEST	EDDY

<sup>12</sup> Dedicated Acres 320	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</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>16</sup></p> <p>SECTION 9 SECTION 10</p> <p>SECTION 16 2295' 2294' 2267'</p> <p>SECTION 15</p> <p>LAST TAKE</p> <p>MEASURED DEPTH = 13,562'</p> <p>2287'</p> <p>MEASURED DEPTH = 11,483'</p> <p>FIRST TAKE</p> <p>2270' 1906'</p> <p>SECTION 16 SECTION 15</p> <p>SECTION 21 SECTION 22</p> <p>271' 330'</p>		<p>CORNER COORDINATES NAD 83, SPCS NM EAST A - Y: 445455.95 / X: 586546.74 B - Y: 445423.66 / X: 589198.69 C - Y: 440159.23 / X: 589132.63 D - Y: 440164.88 / X: 586532.61</p> <p>BOTTOM HOLE LOCATION 13,914 MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 588840.33 / Y: 445142.42 LAT: 32.22367960N / LON: 104.17971848W NAD 27, SPCS NM EAST X: 547657.51 / Y: 445084.21 LAT: 32.22355964N / LON: 104.17922179W</p> <p>LAST TAKE POINT 13,869 MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 588839.70 / Y: 445098.01 LAT: 32.22355752N / LON: 104.17972072W NAD 27, SPCS NM EAST X: 547656.88 / Y: 445039.80 LAT: 32.22343756N / LON: 104.17922404W</p> <p>FIRST TAKE POINT 9,224 MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 588803.88 / Y: 4440489.94 LAT: 32.21089055N / LON: 104.17985783W NAD 27, SPCS NM EAST X: 547620.98 / Y: 4440431.83 LAT: 32.21077043N / LON: 104.17936147W</p> <p>SURFACE HOLE LOCATION 271' FSL 1906' FWL, SECTION 15 NAD 83, SPCS NM EAST X: 588439.30 / Y: 4440431.47 LAT: 32.21073112N / LON: 104.18103679W NAD 27, SPCS NM EAST X: 547256.40 / Y: 4440373.36 LAT: 32.21061101N / LON: 104.18054038W</p> <p>CORNER COORDINATES NAD 27, SPCS NM EAST A - Y: 445397.77 / X: 545363.97 B - Y: 445365.44 / X: 548015.87 C - Y: 440101.12 / X: 547949.72 D - Y: 440106.80 / X: 545349.75</p>	<p><sup>17</sup> OPERATOR CERTIFICATION</p> <p>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 unleased 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>Jennifer Van Curen</i> 4/13/2018 Signature Date</p> <p>Jennifer Van Curen Printed Name</p> <p>E-mail Address</p> <p><sup>18</sup> SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was obtained from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, RECORDING, OR THE BASIS FOR A PERMIT.</p> <p>Date of Survey</p> <p>Signature and Seal of Professional Surveyor</p> <p>Certificate Number</p>
--	--	---	---

NOTE: ALL DIMENSIONS IN U.S. FEET

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State of New Mexico  
Energy, Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
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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	<sup>2</sup> Pool Code 96415	<sup>3</sup> Pool Name WILLOW LAKE (WEST); BONE SPRING
<sup>4</sup> Property Code	<sup>5</sup> Property Name BLACK RIVER 374 STATE 24-27-15 TB	<sup>6</sup> Well Number 10H
<sup>7</sup> OGRID No. 372098	<sup>8</sup> Operator Name MARATHON OIL PERMIAN LLC	<sup>9</sup> Elevation 3223'

<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
N	15	T24S	R27E		271'	SOUTH	1856'	WEST	EDDY

<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	15	T24S	R27E		258'	NORTH	2298'	WEST	EDDY

<sup>12</sup> Dedicated Acres 160	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
--------------------------------------	-------------------------------	----------------------------------	-------------------------

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>16</sup></p> <p>SECTION 9 SECTION 10</p> <p>SECTION 16 2298' 2299'</p> <p>SECTION 15</p> <p>A BHL</p> <p>LAST TAKE</p> <p>MEASURED DEPTH = 13,463'</p> <p>2189' 1856'</p> <p>SECTION 16 SECTION 15</p> <p>SECTION 21 SECTION 22</p> <p>D</p> <p>271' 330'</p>		<p>CORNER COORDINATES NAD 83, SPCS NM EAST A - Y: 445439.80 / X: 587872.72 B - Y: 445423.66 / X: 589198.69 C - Y: 440159.23 / X: 589132.63 D - Y: 440162.05 / X: 587832.62</p> <p>BOTTOM HOLE LOCATION 13,652 MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST Y: 445142.53 / X: 588844.09 LAT: 32.22367988N / LON: 104.17970632W NAD 27, SPCS NM EAST Y: 445084.3 / X: 547661.27 LAT: 32.22355993N / LON: 104.17920963W</p> <p>LAST TAKE POINT 13,607 MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST Y: 445097.95 / X: 588844.22 LAT: 32.22355735N / LON: 104.17970612W NAD 27, SPCS NM EAST Y: 445039.75 / X: 547661.39 LAT: 32.22343739N / LON: 104.17920943W</p> <p>FIRST TAKE POINT 8,959 MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST Y: 440490.12 / X: 588722.79 LAT: 32.21089135N / LON: 104.18012001W NAD 27, SPCS NM EAST Y: 440432.00 / X: 547539.89 LAT: 32.21077123N / LON: 104.17962364W</p> <p>SURFACE HOLE LOCATION 271' FSL 1856' FWL, SECTION 15 NAD 83, SPCS NM EAST Y: 440431.43 / X: 588389.30 LAT: 32.21073179N / LON: 104.18119871W NAD 27, SPCS NM EAST Y: 440373.32 / X: 547206.40 LAT: 32.21061169N / LON: 104.18070230W</p>	<p>SECTION 11</p> <p>SECTION 14</p> <p>SECTION 14</p> <p>SECTION 23</p>	<p><sup>17</sup> OPERATOR CERTIFICATION</p> <p>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 unleased 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>Signature _____ Date _____</p> <p>Printed Name _____</p> <p>E-mail Address _____</p> <p><sup>18</sup> SURVEYOR CERTIFICATION</p> <p>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 and correct to the best of my belief.</p> <p>THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, OR CONVEYANCE OF A PERMIT.</p> <p>Date of Survey _____</p> <p>Signature and Seal of Professional Surveyor _____</p> <p>Certificate Number _____</p>
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NOTE: ALL DIMENSIONS IN U.S. FEET

COMPLETIONNAME	PRODUCTIONDATE	OIL	GAS
Black River 374 State WXY 3H	8/1/2018 0:00	1250.6	1368.2
Black River 374 State WXY 3H	8/2/2018 0:00	901.6	1860.0
Black River 374 State WXY 3H	8/3/2018 0:00	857.3	2185.1
Black River 374 State WXY 3H	8/4/2018 0:00	957.1	1714.6
Black River 374 State WXY 3H	8/5/2018 0:00	890.0	1752.1
Black River 374 State WXY 3H	8/6/2018 0:00	835.9	1770.1
Black River 374 State WXY 3H	8/7/2018 0:00	880.5	1630.2
Black River 374 State WXY 3H	8/8/2018 0:00	828.1	1740.7
Black River 374 State WXY 3H	8/9/2018 0:00	830.0	2221.4
Black River 374 State WXY 3H	8/10/2018 0:00	726.0	2232.1
Black River 374 State WXY 3H	8/11/2018 0:00	764.6	2231.6
Black River 374 State WXY 3H	8/12/2018 0:00	733.0	1759.4
Black River 374 State WXY 3H	8/13/2018 0:00	831.9	1727.8
Black River 374 State WXY 3H	8/14/2018 0:00	653.9	1695.6
Black River 374 State WXY 3H	8/15/2018 0:00	562.7	2338.4
Black River 374 State WXY 3H	8/16/2018 0:00	690.0	4071.4
Black River 374 State WXY 3H	8/17/2018 0:00	614.1	1253.2
Black River 374 State WXY 3H	8/18/2018 0:00	575.6	1168.0
Black River 374 State WXY 3H	8/19/2018 0:00	564.5	1113.0
Black River 374 State WXY 3H	8/20/2018 0:00	159.7	984.0
Black River 374 State WXY 3H	8/21/2018 0:00	941.2	151.0
Black River 374 State WXY 3H	8/22/2018 0:00	379.4	1338.0
Black River 374 State WXY 3H	8/23/2018 0:00	712.9	1447.0
Black River 374 State WXY 3H	8/24/2018 0:00	296.3	1247.0
Black River 374 State WXY 3H	8/25/2018 0:00	752.4	1128.0
Black River 374 State WXY 3H	8/26/2018 0:00	325.8	1219.0
Black River 374 State WXY 3H	8/27/2018 0:00	597.2	1137.0
Black River 374 State WXY 3H	8/28/2018 0:00	-2.1	166.0
Black River 374 State WXY 3H	8/29/2018 0:00	15.1	0.0
Black River 374 State WXY 3H	8/30/2018 0:00	2.4	0.0
Black River 374 State WXY 3H	8/31/2018 0:00	0.0	0.0
Black River 374 State WXY 3H	9/1/2018 0:00	0.0	0.0
Black River 374 State WXY 3H	9/2/2018 0:00	0.0	0.0
Black River 374 State WXY 3H	9/3/2018 0:00	0.0	0.0
Black River 374 State WXY 3H	9/4/2018 0:00	0.0	0.0
Black River 374 State WXY 3H	9/5/2018 0:00	0.0	0.0
Black River 374 State WXY 3H	9/6/2018 0:00	0.0	0.0
Black River 374 State WXY 3H	9/7/2018 0:00	0.0	0.0
Black River 374 State WXY 3H	9/8/2018 0:00	0.0	0.0
Black River 374 State WXY 3H	9/9/2018 0:00	0.0	0.0
Black River 374 State WXY 3H	9/10/2018 0:00	0.0	0.0
Black River 374 State WXY 3H	9/11/2018 0:00	691.6	1605.0
Black River 374 State WXY 3H	9/12/2018 0:00	322.8	0.0
Black River 374 State WXY 3H	9/13/2018 0:00	845.5	1847.1
Black River 374 State WXY 3H	9/14/2018 0:00	353.5	1490.2
Black River 374 State WXY 3H	9/15/2018 0:00	324.6	1899.4



Black River 374 State WXY 3H	9/16/2018 0:00	746.9	3277.7
Black River 374 State WXY 3H	9/17/2018 0:00	771.1	1375.7
Black River 374 State WXY 3H	9/18/2018 0:00	447.3	3264.6
Black River 374 State WXY 3H	9/19/2018 0:00	27.7	2005.8
Black River 374 State WXY 3H	9/20/2018 0:00	587.5	2001.2
Black River 374 State WXY 3H	9/21/2018 0:00	454.4	1347.9
Black River 374 State WXY 3H	9/22/2018 0:00	601.5	1640.3
Black River 374 State WXY 3H	9/23/2018 0:00	337.5	162.9
Black River 374 State WXY 3H	9/24/2018 0:00	267.5	989.5
Black River 374 State WXY 3H	9/25/2018 0:00	122.1	0

COMPLETIONNAME	PRODUCTIONDATE	OIL	GAS
Black River 374 State WA 8H	8/1/2018 0:00	738.6	942.8
Black River 374 State WA 8H	8/2/2018 0:00	541.5	1480.0
Black River 374 State WA 8H	8/3/2018 0:00	546.3	1819.9
Black River 374 State WA 8H	8/4/2018 0:00	636.8	1460.4
Black River 374 State WA 8H	8/5/2018 0:00	584.1	2061.9
Black River 374 State WA 8H	8/6/2018 0:00	577.5	2043.9
Black River 374 State WA 8H	8/7/2018 0:00	603.3	1957.8
Black River 374 State WA 8H	8/8/2018 0:00	583.6	2050.3
Black River 374 State WA 8H	8/9/2018 0:00	608.1	1999.6
Black River 374 State WA 8H	8/10/2018 0:00	470.3	1855.9
Black River 374 State WA 8H	8/11/2018 0:00	534.5	1466.4
Black River 374 State WA 8H	8/12/2018 0:00	556.1	1594.6
Black River 374 State WA 8H	8/13/2018 0:00	653.1	1502.2
Black River 374 State WA 8H	8/14/2018 0:00	519.6	1507.4
Black River 374 State WA 8H	8/15/2018 0:00	610.0	1999.2
Black River 374 State WA 8H	8/16/2018 0:00	380.2	3728.6
Black River 374 State WA 8H	8/17/2018 0:00	0.0	4.8
Black River 374 State WA 8H	8/18/2018 0:00	0.0	7.8
Black River 374 State WA 8H	8/19/2018 0:00	0.0	0.0
Black River 374 State WA 8H	8/20/2018 0:00	0.0	0.0
Black River 374 State WA 8H	8/21/2018 0:00	0.0	0.0
Black River 374 State WA 8H	8/22/2018 0:00	0.0	0.0
Black River 374 State WA 8H	8/23/2018 0:00	0.0	0.0
Black River 374 State WA 8H	8/24/2018 0:00	0.0	0.0
Black River 374 State WA 8H	8/25/2018 0:00	0.0	0.0
Black River 374 State WA 8H	8/26/2018 0:00	0.0	0.0
Black River 374 State WA 8H	8/27/2018 0:00	0.0	0.0
Black River 374 State WA 8H	8/28/2018 0:00	0.0	0.0
Black River 374 State WA 8H	8/29/2018 0:00	15.1	0.0
Black River 374 State WA 8H	8/30/2018 0:00	2.4	0.0
Black River 374 State WA 8H	8/31/2018 0:00	0.0	0.0
Black River 374 State WA 8H	9/1/2018 0:00	0.0	0.0
Black River 374 State WA 8H	9/2/2018 0:00	0.0	0.0
Black River 374 State WA 8H	9/3/2018 0:00	0.0	0.0
Black River 374 State WA 8H	9/4/2018 0:00	0.0	0.0
Black River 374 State WA 8H	9/5/2018 0:00	0.0	0.0
Black River 374 State WA 8H	9/6/2018 0:00	0.0	0.0
Black River 374 State WA 8H	9/7/2018 0:00	0.0	0.0
Black River 374 State WA 8H	9/8/2018 0:00	0.0	0.0
Black River 374 State WA 8H	9/9/2018 0:00	0.0	0.0
Black River 374 State WA 8H	9/10/2018 0:00	0.0	0.0
Black River 374 State WA 8H	9/11/2018 0:00	0.0	0.0
Black River 374 State WA 8H	9/12/2018 0:00	38.6	444.0
Black River 374 State WA 8H	9/13/2018 0:00	674.2	1303.0
Black River 374 State WA 8H	9/14/2018 0:00	366.7	1392.5
Black River 374 State WA 8H	9/15/2018 0:00	361.9	1941.0

Black River 374 State WA 8H	9/16/2018 0:00	863.6	3545.1
Black River 374 State WA 8H	9/17/2018 0:00	885.2	1510.6
Black River 374 State WA 8H	9/18/2018 0:00	537.6	3715.2
Black River 374 State WA 8H	9/19/2018 0:00	33.6	2321.7
Black River 374 State WA 8H	9/20/2018 0:00	700.2	2266.9
Black River 374 State WA 8H	9/21/2018 0:00	531.8	1481.4
Black River 374 State WA 8H	9/22/2018 0:00	657.9	1662.3
Black River 374 State WA 8H	9/23/2018 0:00	359.8	2335.2
Black River 374 State WA 8H	9/24/2018 0:00	354.8	1282.6
Black River 374 State WA 8H	9/25/2018 0:00	122.1	0

COMPLETIONNAME	PRODUCTIONDATE	Oil	Gas
Black River 374 State TB 10H	8/1/2018 0:00	0.0	0
Black River 374 State TB 10H	8/2/2018 0:00	0.0	0
Black River 374 State TB 10H	8/3/2018 0:00	0.0	0
Black River 374 State TB 10H	8/4/2018 0:00	0.0	0
Black River 374 State TB 10H	8/5/2018 0:00	0.0	0
Black River 374 State TB 10H	8/6/2018 0:00	0.0	0
Black River 374 State TB 10H	8/7/2018 0:00	0.0	0
Black River 374 State TB 10H	8/8/2018 0:00	0.0	0
Black River 374 State TB 10H	8/9/2018 0:00	0.0	0
Black River 374 State TB 10H	8/10/2018 0:00	0.0	0
Black River 374 State TB 10H	8/11/2018 0:00	0.0	0
Black River 374 State TB 10H	8/12/2018 0:00	0.0	0
Black River 374 State TB 10H	8/13/2018 0:00	0.0	0
Black River 374 State TB 10H	8/14/2018 0:00	0.0	0
Black River 374 State TB 10H	8/15/2018 0:00	0.0	0
Black River 374 State TB 10H	8/16/2018 0:00	0.0	0
Black River 374 State TB 10H	8/17/2018 0:00	0.0	0
Black River 374 State TB 10H	8/18/2018 0:00	0.0	0
Black River 374 State TB 10H	8/19/2018 0:00	0.0	0
Black River 374 State TB 10H	8/20/2018 0:00	0.0	0
Black River 374 State TB 10H	8/21/2018 0:00	0.0	0
Black River 374 State TB 10H	8/22/2018 0:00	0.0	0
Black River 374 State TB 10H	8/23/2018 0:00	0.0	0
Black River 374 State TB 10H	8/24/2018 0:00	0.0	0
Black River 374 State TB 10H	8/25/2018 0:00	0.0	0
Black River 374 State TB 10H	8/26/2018 0:00	0.0	0
Black River 374 State TB 10H	8/27/2018 0:00	0.0	0
Black River 374 State TB 10H	8/28/2018 0:00	0.0	0
Black River 374 State TB 10H	8/29/2018 0:00	15.1	0
Black River 374 State TB 10H	8/30/2018 0:00	2.4	0
Black River 374 State TB 10H	8/31/2018 0:00	0.0	0
Black River 374 State TB 10H	9/1/2018 0:00	0.0	0
Black River 374 State TB 10H	9/2/2018 0:00	0.0	0
Black River 374 State TB 10H	9/3/2018 0:00	0.0	0
Black River 374 State TB 10H	9/4/2018 0:00	0.0	0
Black River 374 State TB 10H	9/5/2018 0:00	0.0	0
Black River 374 State TB 10H	9/6/2018 0:00	0.0	0
Black River 374 State TB 10H	9/7/2018 0:00	0.0	0
Black River 374 State TB 10H	9/8/2018 0:00	0.0	0
Black River 374 State TB 10H	9/9/2018 0:00	0.0	0
Black River 374 State TB 10H	9/10/2018 0:00	0.0	0
Black River 374 State TB 10H	9/11/2018 0:00	1083.4	0
Black River 374 State TB 10H	9/12/2018 0:00	377.5	0
Black River 374 State TB 10H	9/13/2018 0:00	731.7	0
Black River 374 State TB 10H	9/14/2018 0:00	915.9	110.30
Black River 374 State TB 10H	9/15/2018 0:00	206.9	865.81

Black River 374 State TB 10H	9/16/2018 0:00	218.3	820.05
Black River 374 State TB 10H	9/17/2018 0:00	96.7	351.76
Black River 374 State TB 10H	9/18/2018 0:00	41.7	437.39
Black River 374 State TB 10H	9/19/2018 0:00	2.0	223.78
Black River 374 State TB 10H	9/20/2018 0:00	42.1	214.88
Black River 374 State TB 10H	9/21/2018 0:00	26.1	133.49
Black River 374 State TB 10H	9/22/2018 0:00	41.1	147.36
Black River 374 State TB 10H	9/23/2018 0:00	11.5	14.20
Black River 374 State TB 10H	9/24/2018 0:00	14.8	99.63
Black River 374 State TB 10H	9/25/2018 0:00	122.1	0

3H

	Total Monthly OIL (BBLS)	Total Monthly Gas (MCF)
Jul-18	18617	44775
Aug-18	19128	44650
Sep-18	8048	32154

8H

	Total Monthly OIL (BBLS)	Total Monthly Gas (MCF)
Jul-18	15170	36178
Aug-18	9161	29484
Sep-18	9925	33348

10H

	Total Monthly OIL (BBLS)	Total Monthly Gas (MCF)
Jul-18	7222	15194
Aug-18	18	0
Sep-18	3927	4447