

RECEIVED <i>6-5 2017</i>	REVIEWER <i>MAM</i>	TYPE <i>PLC</i>	APP NO <i>PKSC1715647832</i>
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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:** Devon Energy Production Co., LP **OGRID Number:** 6137  
**Well Name:** Cotton Draw 10 Fed Com 1h, 2H, 3H, & 4H **API** 30-015-39229, 30-015-39230,  
**Pool:** Paduca; Bone Spring & Cotton Draw; Delaware South 30-015-42126, 30-015-42127,  
**Pool Code** 96757, 96641

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

*PLC - 476*

- 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 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

<b>FOR OCD ONLY</b>	
<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

**06/02/17**

**Erin Workman**

Date

Print or Type Name

**(405) 552-7970**

*Erin Workman*

Phone Number

**Erin.workman@dvn.com**

Signature

e-mail Address

Cotton Draw 10 Fed Com 2H  
 Section 10,T25S,R31E  
 330FNL&660FEL  
 Eddy County, N.M  
 API# 3001539230

PROCESS FLOW DIAGRAM

Production System: Closed

1) Oil sales by tank gauge to tank truck.

2) Seal requirements:

A. Production Phase: On all Tanks.

(1) Both water tank valves sealed open  
 All 3 oil load line valves sealed open

Sales Phase: On Tank being hauled.

- (1) Valve 1 sealed closed. 
- (2) Valve 3 sealed closed. 
- (3) Valve 4 sealed closed. 
- (4) Valve 5 sealed closed. 

(5) Misc. Valves: Plugged or otherwise unaccessible.   
 NOTE: Valve 2 is either a test or roll line if there is a valve 2 it will be sealed closed.

Ledger for Site Diagram

- Valve #1: Production Line 
- Valve #2: Test or Roll line 
- Valve #3: Equilizer Line 
- Valve #4: Circ./Drain Line 
- Valve #5: Sales Line 
- Valve #6: BS&W Load Line 

Buried Lines: 

Firewall: 

Wellhead: 

Stak-pak: 

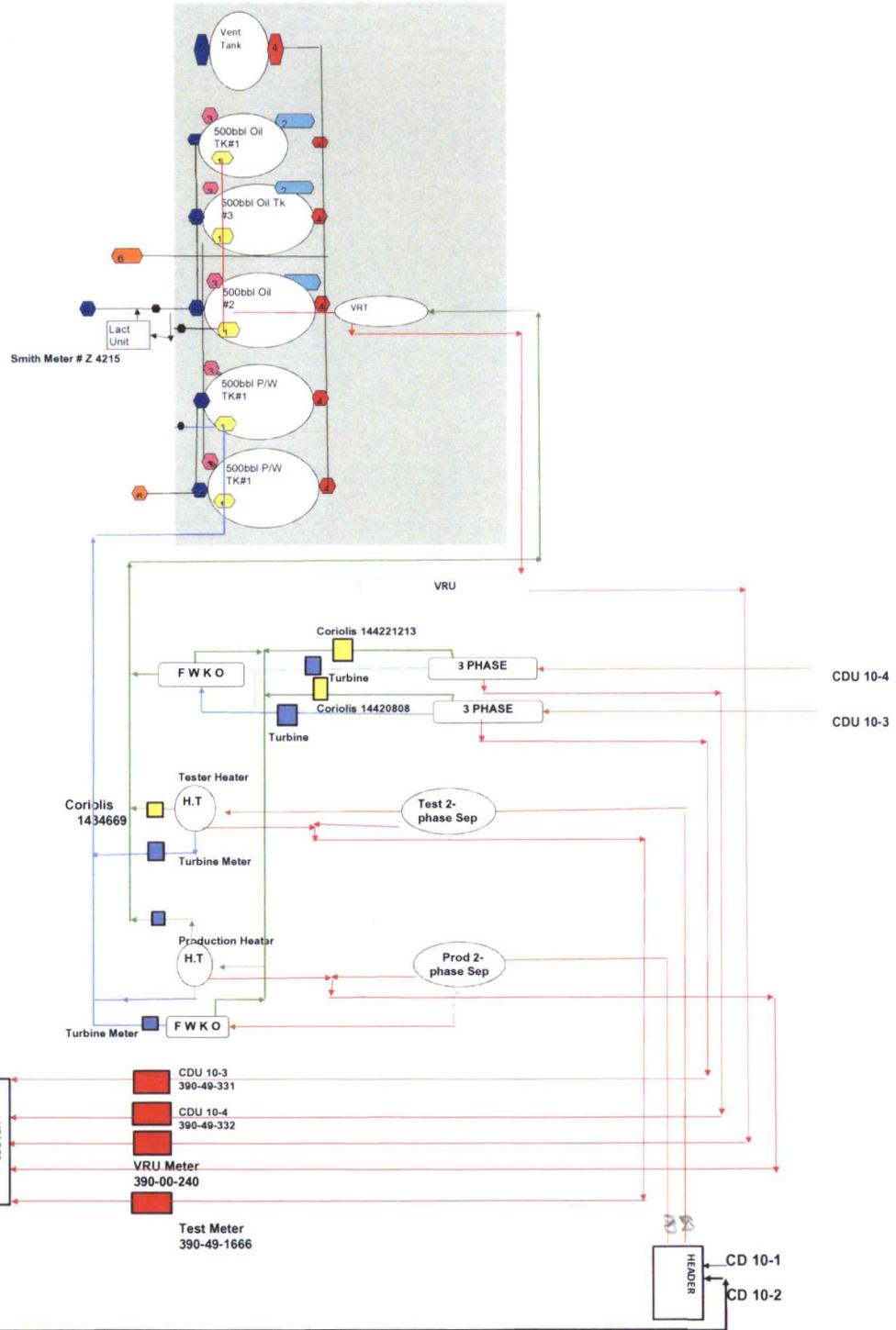
Production line: 

Water line: 

Gas Meter 



Production System Open  
 Oil Piped  
 1. Production Phase OT#1  
 (1) valve #1 and 3 open  
 (2) valve 2, 4, & 5 sealed closed.  
 (3) Valve on tk #2 positioned.  
 A. Valve 1, 2, 4, 5 sealed closed.  
 B. Valve 3 open.  
 Sales Phase OT#1  
 1. Valves 1, 2, 3, & 4 sealed closed  
 2. Valve #5 in open position  
 3. OT#2 positioned  
 A. Valve 1, 3 open  
 B. Valve 2, 4 & 5 sealed close



Devon Energy  
 Cotton Draw 10 Fed#2H  
 Section 10,T25S,R31E  
 330FNL&660FEL  
 Eddy County, N.M

390-11-306  
 Flare Meter  
 Point of  
 Royalty  
 Measurement  
 390-33-569

CDU 10-3  
 390-49-331  
 CDU 10-4  
 390-49-332  
 VRU Meter  
 390-00-240  
 Test Meter  
 390-49-1666

CD 10-1  
 CD 10-2



Devon Energy Corporation  
333 West Sheridan Avenue  
Oklahoma City, OK 73102 5010

405 552 7970 Phone  
Erin workman@devon.com

June 2, 2017

Mr. Michael McMillian  
State of New Mexico  
Oil Conservation Division  
1220 S. St. Francis Drive  
Santa Fe, New Mexico 87505

Re: CTB/PC Cotton Draw 10 Fed Com 1H, 2H, 3H, & 4H  
Sec., T, R: Sec 10, T25S, R31E  
Lease: CA NMNM128656, 128657, 134185, & 134288  
API: 30-015-39229, 30-015-39230, 30-015-42126, & 30-015-42127  
Pool: Cotton Draw, Delaware, South & Paduca; Bone Spring  
County: Eddy Co., New Mexico

Dear Mr. McMillian:

Please find attached the OCD Form C-103 Notice of Intent for a Central Tank Battery & Pool Commingle for the aforementioned wells.

The working interest, royalty interest and overriding royalty interest owners are not identical; notification has been sent via certified mail (see attached).

Subsequently drilled wells that produce from the subject pools within the project areas approved by this order may be added to this commingling authority by submittal of a Sundry Notice to the Engineering Bureau in Santa Fe.

Should you have any questions or need further assistance, please do not hesitate to contact me at (405) 552-7970.

Sincerely,

Erin Workman  
Regulatory Compliance Professional

Enclosures

District I  
1625 N French Drive, Hobbs, NM 88240  
District II  
1301 W Grand Ave, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S St Francis Dr, Santa Fe, NM  
87505

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-107-B  
Revised June 10, 2003

**OIL CONSERVATION DIVISION**  
1220 S St Francis Drive  
Santa Fe, New Mexico 87505

Submit the original application to the Santa Fe office with one copy to the appropriate District Office

**APPLICATION FOR SURFACE COMMINGLING (DIVERSE OWNERSHIP)**

OPERATOR NAME Devon Energy Production Co , LP  
OPERATOR ADDRESS 333 W Sheridan Avenue, Oklahoma City, OK 73102  
APPLICATION TYPE  
 Pool Commingling  Lease Commingling  Pool and Lease Commingling  Off-Lease Storage and Measurement (Only if not Surface Commingled)  
LEASE TYPE  Fee  State  Federal

Is this an Amendment to existing Order?  Yes  No If "Yes", please include the appropriate Order No \_\_\_\_\_  
Have the Bureau of Land Management (BLM) and State Land office (SLO) been notified in writing of the proposed commingling  
 Yes  No

**(A) POOL COMMINGLING – fill if Pool Commingle**  
Please attach sheets with the following information

(1) Pool Names and Codes	Gravities / BTU of Non-Commingled Production	Calculated Gravities / BTU of Commingled Production	Calculated Value of Commingled Production	Volumes
Cotton Draw, Delaware, South	45/1315			
Paduca, Bone Spring	45/1315			

(2) Are any wells producing at top allowables?  Yes  No  
(3) Has all interest owners been notified by certified mail of the proposed commingling?  Yes  No  
(4) Measurement type  Metering  Other (Coriolis & Well Test Method)  
(5) Will commingling decrease the value of production?  Yes  No If "yes", describe why commingling should be approved

**(B) LEASE COMMINGLING**  
Please attach sheets with the following information

(1) Pool Name and Code  
(2) Is all production from same source of supply?  Yes  No  
(3) Has all interest owners been notified by certified mail of the proposed commingling?  Yes  No  
(4) Measurement type  Metering  Other (Coriolis & Well Test Method)

**(C) POOL and LEASE COMMINGLING**  
Please attach sheets with the following information

(1) Complete Sections A and E

**(D) OFF-LEASE STORAGE and MEASUREMENT**  
Please attached sheets with the following information

(1) Is all production from same source of supply?  Yes  No  
(2) Include proof of notice to all interest owners

**(E) ADDITIONAL INFORMATION (for all application types)**  
Please attach sheets with the following information

(1) A schematic diagram of facility, including legal location  
(2) A plat with lease boundaries showing all well and facility locations Include lease numbers if Federal or State lands are involved  
(3) Lease Names, Lease and Well Numbers, and API Numbers

I hereby certify that the information above is true and complete to the best of my knowledge and belief

SIGNATURE *Ern Workman* TITLE Regulatory Compliance Prof DATE 06/02/2017

TYPE OR PRINT NAME Ern Workman TELEPHONE NUMBER (405)552-7970

E-MAIL ADDRESS Ern workman@dvn.com

# APPLICATION FOR SURFACE\POOL COMMINGLING\OFF LEASE MEASUREMENT SALES, & STORAGE

## Proposal for Cotton Draw 10 Fed Com 2H Battery

Devon Energy Production Company, LP is requesting approval for Surface\Pool Commingle\Off-Lease measurement, sales, and storage for the following wells

### Federal Lease: CA NMNM128656 (12.5%)

Well Name	Location	API #	Pool 96757	BOPD	OG	MCFPD	BTU
Cotton Draw 10 Fed Com 1H	SWSE, Sec 10, T25S, R31E	30-015-39229	Cotton Draw; Delaware, South	14	45*	36	1315*

### Federal Lease CA NMNM 128657(12.5%)

Well Name	Location	API #	Pool 96757	BOPD	OG	MCFPD	BTU
Cotton Draw 10 Fed Com 2H	NENE, Sec 10, T25S, R31E	30-015-39230	Cotton Draw; Delaware, South	16	45*	50	1315*

### Federal Lease: CA NMNM134185 (12.5%)

Well Name	Location	API #	Pool 96641	BOPD	OG	MCFPD	BTU
Cotton Draw 10 Fed Com 3H	NENE, Sec 10, T25S, R31E	30-015-42126	Paduca; Bone Spring	140	45*	778	1315*

### Federal Lease CA NMNM134188 (12.5%)

Well Name	Location	API #	Pool 96641	BOPD	OG	MCFPD	BTU
Cotton Draw 10 Fed Com 4H	NENE, Sec 10, T25S, R31E	30-015-42127	Paduca; Bone Spring	106	45*	445	1315*

These numbers are per the battery, will provide numbers upon receipt

Attached is a map that displays the federal leases and well locations in Section 10, T25S, R31E

The BLM's interest in all four wells is 12.5%

### Oil & Gas metering:

The central tank battery is located on the Cotton Draw 10 Fed Com 2H in Sec 10, T25S, R31E, Eddy County, New Mexico. The Cotton Draw 10 Fed Com 1H & 2H will flow into a main-folded header with the ability to route each well to either a dedicated tester or production heater/treater. One well will be routed to the dedicated tester and one routed to the production heater/treater during normal operations. The well test method will be utilized once a month for a minimum of 24 hours to meter the oil, water, and gas for either the 1H or 2H. Oil is measured with a Micro Motion Coriolis Meter, water is measured with mag meter, and gas is measured with an orifice meter & EFM. The Cotton Draw 10 Fed Com 3H & 4H production are measured continuously through three phase separators with using a Micro Motion Coriolis to meter the oil, mag meter to meter the water, and an orifice meter to meter the gas. VRU gas is measured with an orifice meter and is allocated back to each well utilizing a percentage of each wells monthly oil production.

The Cotton Draw 10 Fed Com 2H battery contains 3 oil tanks. Oil from each well commingles downstream of the heater treaters and then flows into the tanks. They will share a common Devon Point of Royalty Measurement #390-33-569 on location at the Cotton Draw 10 Fed Com 2H Battery located in Sec 10, T25S, R31E. They will also share a common LACT Smith Meter # Z 4215.

During well test, either the Cotton Draw 10 Fed Com 1H or 2H well is routed to the test side, production will flow into a two phase test separator where gas is separated, combined with gas from the test side heater/treater, and then metered with an orifice meter # 390-49-166. Once gas from the test side is measured, the test gas combines into a header with the gas from the other 3 wells & VRU flash gas, flows through a sales gas 2 phase separator, and is metered via Devon Point of Royalty Measurement #390-33-569 before it goes into the pipeline. Oil/water flow from the 2 phase tester separator and enter into a test heater/treater. After separation, the oil is then metered with a Micro Motion Coriolis Meter #1434669, flows into an oil production line where it is combined with the other wells oil, and then to the 500 bbl oil tanks. The water is metered using a turbine meter, then flows to the 500 bbl produced water tank, along with the water from the other wells.

When not on test, either the Cotton Draw 10 Fed Com 1H or 2H is routed to the production 2 phase separator. Production will flow into a two phase separator where after separation, gas combines with the production heater/treater gas and flows into a common header with gas from the other wells & VRU flash gas. Everything goes through the sales gas 2 phase separator and then flows to the Devon Point of Royalty Measurement #390-33-165. Produced water and oil flows from the production 2 phase separator and into the FWKO. After separation, the oil then combines with the oil from the Cotton Draw 10 Fed Com 3H & 4H and flows into the

production heater/treater, is metered with a turbine meter and then combines with the oil from the test side, and flows into one of the 500 oil bbl tanks. The produced water is metered with a turbine meter and flows to one of the 500 bbl produced water tanks, along with the water from the other wells.

The Cotton Draw 10 Fed Com 3H well has its own dedicated three phase test separator. After the gas is separated, it is routed to the gas test meter # 390-49-331, into a common header with gas from the other wells and the VRU, through a 2-phase separator, and then flows to the Devon Point of Royalty Measurement #390-33-569. After separation, the produced oil is then metered with a Micro Motion Coriolis Meter #14420808, combines with the Cotton Draw 10 Fed Com 4H & oil from the FWKO on the production side, flows into the production heater/treater, then will combine with the oil on the test side and flow to one of the 500 bbl oil tanks. The water is metered utilizing a turbine meter, combines with the water from the Cotton Draw 10 Fed Com 4H, flows into the FWKO, then combines with the water from the test and production side, and flows to one of the 500 bbl produced water tanks.

The Cotton Draw 10 Fed Com 4H well has its own dedicated three phase test separator. After the gas is separated, it is routed to the gas test meter # 390-49-332, into a common header with gas from the other wells and the VRU, through a 2-phase separator, and then flows to the Devon Point of Royalty Measurement #390-33-569. After separation, the produced oil is then metered with a Micro Motion Coriolis Meter #144221213, combines with the Cotton Draw 10 Fed Com 3H & oil from the FWKO on the production side, flows into the production heater/treater, then will combine with the oil on the test side and flow to one of the 500 bbl oil tanks. The water is metered utilizing a turbine meter, combines with the water from the Cotton Draw 10 Fed Com 3H, flows into the FWKO, then combines with the water from the test and production side, and flows to one of the 500 bbl produced water tanks.

Devon proposes to allocate production for the Cotton Draw 10 Fed Com 1H & 2H by the well test method. Production from the Cotton Draw 10 Fed Com 3H & 4H will be allocated on a daily basis based on the Coriolis Test Meter, Turbine Meter, & EFM located downstream of the dedicated three phase separator. The Coriolis meter will be proven, as per API, NMOCD, and BLM 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 from the Cotton Draw 10 Fed Com 3H & 4H wells will be allocated on a daily basis using the gas allocation meter. The gas production from the Cotton Draw 10 Fed Com 1H & 2H will be allocated based on a monthly basis per the gas test meter #390-49-166. The gas production from the production equipment, test side gas meter, & gas meters from the Cotton Draw 10 Fed Com 3H & 4H will commingle come into a common header, and flow into Devon's Point of Royalty Measurement Meter #390-33-569. These meters will be calibrated on a regular basis per API, NMOCD and BLM specifications. The BLM and OCD will be notified of any future changes in the facilities.

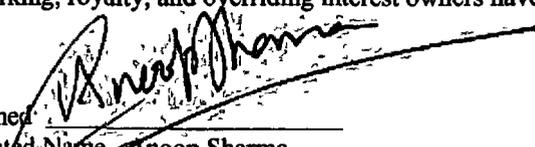
These wells are located on multiple Federal Leases and CA's that are all 12.5% royalty. This is divers WI & ORRI among these wells as outlined in the attached ownership list. Notice has been provided to all parties as per the attached certified mail list. Wells have declined below their top allowable within the first 3 months of production. Furthermore, the percent of decline 6 months after peak rate is between 33-82%.

#### Process and Flow Descriptions:

The flow of produced fluids is shown in detail on the enclosed facility diagram, along with a description of each vessel and map which shows the lease boundaries, location of wells, facility, and gas sales meter. The proposed commingling is appropriate based on the BLM's guidance in IM 2013-152. The proposed commingling will maximize the ultimate recovery of oil and/or gas from the federal leases and will reduce environmental impacts by minimizing surface disturbance and emissions. The proposed commingling will reduce operating expenses, as well as, not adversely affect federal royalty income, production accountability, or the distribution of royalty.

Devon Energy Production Company, LP understands the requested approval will not constitute the granting of any right-of-way or construction rights not granted by the lease instrument.

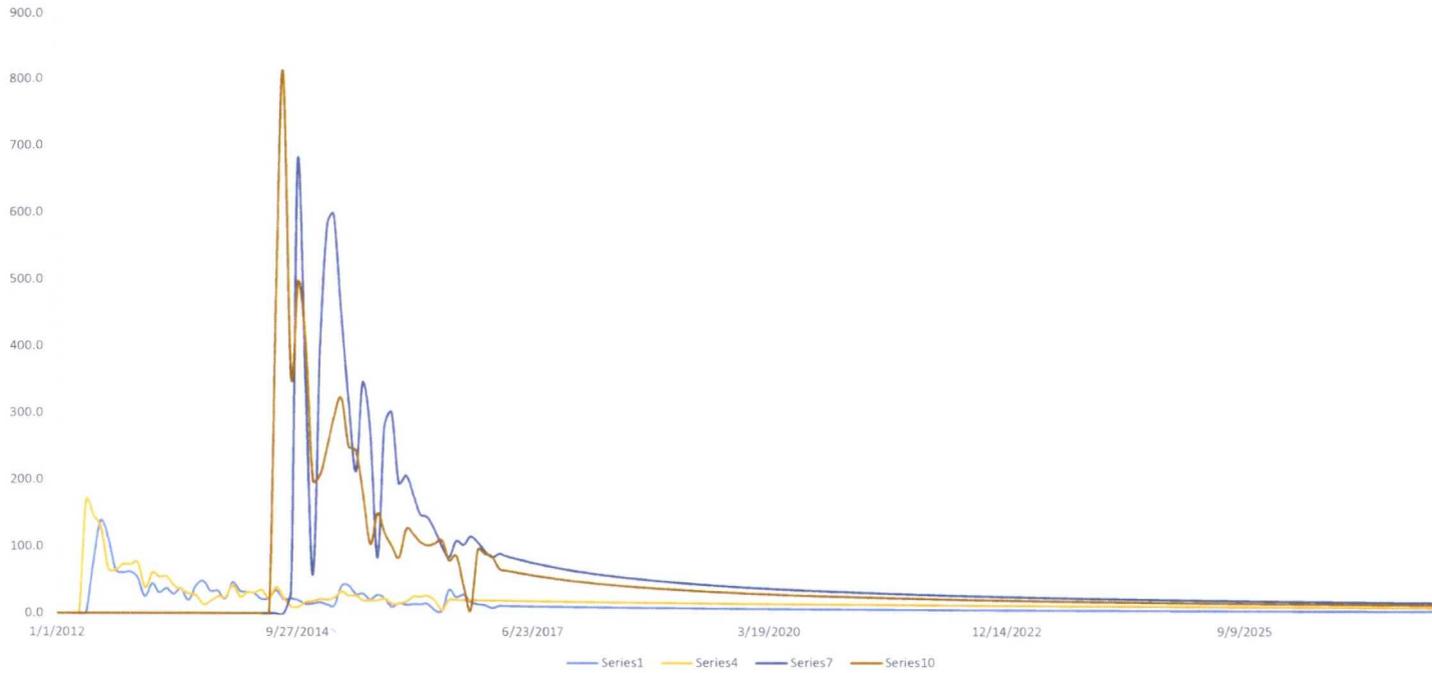
Working, royalty, and overriding interest owners have been notified of this proposal via certified mail (see attached).

Signed   
Printed Name Anoop Sharma  
Title Reservoir Engineer  
Date 05/31/17

Signed   
Printed Name Erin Workman  
Title Regulatory Compliance Analyst  
Date 05/31/17

	CD 10 FED COM 1H	CD 10 FED COM 2H	CD 10 FED COM 3H	CD 10 FED COM 4H
<b>Peak Rate</b>	138.5	169.3	676.4	811.8
<b>6 Months Later</b>	25.5	73.4	451.1	253.6
<b>% Decline</b>	82%	57%	33%	69%

CD 10 FED COM 1,2,3,4H Oil Production



1/1/2012 40909.00  
12/31/2027 46752.00

	CD 10 FED COM 1H	CD 10 FED COM 2H	CD 10 FED COM 3H	CD 10 FED COM 4H
Date	Oil, BOD	Oil, BOD	Oil, BOD	Oil, BOD
1/1/2012	0 0	0 0	0 0	0 0
2/1/2012	0 0	0 0	0 0	0 0
3/1/2012	0 0	0.0	0 0	0 0
4/1/2012	0 0	0.7	0 0	0 0
5/1/2012	0 0	169 3	0 0	0 0
6/1/2012	76.1	146 6	0 0	0 0
7/1/2012	138 5	128 9	0 0	0 0
8/1/2012	114 1	66 9	0 0	0 0
9/1/2012	65 2	64.9	0 0	0 0
10/1/2012	60.9	73 6	0.0	0 0
11/1/2012	62.1	73 4	0 0	0 0
12/1/2012	53 7	76 1	0 0	0 0
1/1/2013	25 5	38.8	0 0	0 0
2/1/2013	44 4	61 3	0 0	0 0
3/1/2013	31.2	54 8	0 0	0 0
4/1/2013	37.3	54 7	0 0	0 0
5/1/2013	28 8	41 7	0.0	0 0
6/1/2013	37 0	35 8	0 0	0 0
7/1/2013	19 7	29.7	0 0	0 0
8/1/2013	41 3	26.8	0 0	0 0
9/1/2013	48 3	13 4	0 0	0 0
10/1/2013	33 6	18 4	0 0	0 0
11/1/2013	33 8	25 4	0.0	0 0
12/1/2013	21 7	24 3	0.0	0 0
1/1/2014	46 4	41 8	0 0	0 0
2/1/2014	33 4	24 6	0.0	0 0
3/1/2014	31.9	31.2	0 0	0 0
4/1/2014	30 1	30 7	0 0	0 0
5/1/2014	21 5	34.9	0 0	0 0
6/1/2014	22 9	22 4	0.0	0 0
7/1/2014	34 6	39 3	0 0	475 3
8/1/2014	21.0	23.5	0 0	811.8
9/1/2014	22 5	10 5	36 1	356 4
10/1/2014	19.7	10.2	676 4	496.6
11/1/2014	14 2	17 0	350.9	405 1
12/1/2014	14 7	18 7	57 7	198.3
1/1/2015	16 6	21.8	404 0	208 5
2/1/2015	13 0	20 6	583.2	253 6
3/1/2015	11 8	24 1	597 3	295 7
4/1/2015	41 1	32.7	451 1	322 4
5/1/2015	42 3	27 1	322 6	250 8
6/1/2015	28 8	26 5	212 3	243 4
7/1/2015	30.1	20 0	345.9	180 2
8/1/2015	21 1	19.3	278 5	103 8
9/1/2015	27.8	19.6	83 2	149.7

10/1/2015	23.1	22.1	279.7	120.4
11/1/2015	10.0	15.4	301.8	100.8
12/1/2015	15.5	14.5	195.6	83.6
1/1/2016	13.0	18.4	207.0	126.5
2/1/2016	14.0	25.6	177.6	118.6
3/1/2016	13.6	25.1	149.2	107.3
4/1/2016	14.5	26.8	144.1	102.0
5/1/2016	4.8	19.2	124.1	105.0
6/1/2016	4.4	5.0	100.5	109.6
7/1/2016	35.4	20.4	83.9	79.2
8/1/2016	24.7	20.2	108.4	86.2
9/1/2016	27.9	20.0	102.8	40.3
10/1/2016	17.5	19.8	115.3	4.7
11/1/2016	13.7	19.6	106.8	95.1
12/1/2016	12.4	19.4	93.3	89.2
1/1/2017	7.9	19.2	84.2	84.5
2/1/2017	11.0	19.0	89.2	66.4
3/1/2017	10.8	18.8	86.0	64.2
4/1/2017	10.6	18.6	83.0	62.1
5/1/2017	10.4	18.5	80.2	60.1
6/1/2017	10.3	18.3	77.6	58.2
7/1/2017	10.1	18.1	75.1	56.5
8/1/2017	9.9	17.9	72.8	54.8
9/1/2017	9.8	17.8	70.6	53.2
10/1/2017	9.6	17.6	68.5	51.8
11/1/2017	9.5	17.4	66.6	50.4
12/1/2017	9.3	17.3	64.8	49.1
1/1/2018	9.2	17.1	63.0	47.8
2/1/2018	9.1	17.0	61.4	46.6
3/1/2018	8.9	16.8	59.9	45.5
4/1/2018	8.8	16.7	58.5	44.4
5/1/2018	8.7	16.5	57.1	43.4
6/1/2018	8.5	16.4	55.7	42.4
7/1/2018	8.4	16.2	54.4	41.5
8/1/2018	8.3	16.1	53.2	40.6
9/1/2018	8.2	16.0	52.0	39.7
10/1/2018	8.1	15.8	50.9	38.9
11/1/2018	7.9	15.7	49.8	38.1
12/1/2018	7.8	15.6	48.8	37.3
1/1/2019	7.7	15.5	47.8	36.6
2/1/2019	7.6	15.3	46.9	35.9
3/1/2019	7.5	15.2	46.0	35.3
4/1/2019	7.4	15.1	45.1	34.6
5/1/2019	7.3	15.0	44.3	34.0
6/1/2019	7.2	14.9	43.5	33.4
7/1/2019	7.1	14.8	42.7	32.8
8/1/2019	7.0	14.7	41.9	32.2

9/1/2019	6.9	14.5	41.2	31.7
10/1/2019	6.8	14.4	40.5	31.1
11/1/2019	6.7	14.3	39.8	30.6
12/1/2019	6.7	14.2	39.1	30.1
1/1/2020	6.6	14.1	38.4	29.6
2/1/2020	6.5	14.0	37.8	29.1
3/1/2020	6.4	13.9	37.2	28.7
4/1/2020	6.3	13.8	36.6	28.3
5/1/2020	6.2	13.7	36.1	27.8
6/1/2020	6.2	13.6	35.5	27.4
7/1/2020	6.1	13.5	35.0	27.0
8/1/2020	6.0	13.4	34.5	26.6
9/1/2020	5.9	13.3	34.0	26.3
10/1/2020	5.9	13.2	33.5	25.9
11/1/2020	5.8	13.2	33.0	25.5
12/1/2020	5.7	13.1	32.6	25.2
1/1/2021	5.7	13.0	32.2	24.9
2/1/2021	5.6	12.9	31.8	24.6
3/1/2021	5.5	12.9	31.4	24.3
4/1/2021	5.5	12.8	31.0	24.0
5/1/2021	5.4	12.7	30.6	23.7
6/1/2021	5.3	12.6	30.2	23.4
7/1/2021	5.3	12.5	29.8	23.1
8/1/2021	5.2	12.5	29.4	22.8
9/1/2021	5.2	12.4	29.1	22.5
10/1/2021	5.1	12.3	28.7	22.3
11/1/2021	5.0	12.2	28.4	22.0
12/1/2021	5.0	12.1	28.0	21.8
1/1/2022	4.9	12.1	27.7	21.5
2/1/2022	4.9	12.0	27.4	21.3
3/1/2022	4.8	11.9	27.1	21.0
4/1/2022	4.8	11.8	26.8	20.8
5/1/2022	4.7	11.8	26.5	20.6
6/1/2022	4.7	11.7	26.2	20.4
7/1/2022	4.6	11.6	25.9	20.1
8/1/2022	4.6	11.5	25.6	19.9
9/1/2022	4.5	11.5	25.3	19.7
10/1/2022	4.5	11.4	25.1	19.5
11/1/2022	4.4	11.3	24.8	19.3
12/1/2022	4.4	11.3	24.6	19.1
1/1/2023	4.3	11.2	24.3	18.9
2/1/2023	4.3	11.1	24.1	18.7
3/1/2023	4.2	11.0	23.8	18.5
4/1/2023	4.2	11.0	23.6	18.4
5/1/2023	4.2	10.9	23.4	18.2
6/1/2023	4.1	10.8	23.1	18.0
7/1/2023	4.1	10.8	22.9	17.8

8/1/2023	40	107	227	177
9/1/2023	40	106	225	175
10/1/2023	40	106	223	173
11/1/2023	39	105	220	172
12/1/2023	39	104	218	170
1/1/2024	38	103	216	168
2/1/2024	38	103	214	167
3/1/2024	38	102	212	165
4/1/2024	37	101	210	164
5/1/2024	37	101	208	162
6/1/2024	36	100	206	161
7/1/2024	36	100	205	160
8/1/2024	36	99	203	158
9/1/2024	35	98	201	157
10/1/2024	35	98	199	156
11/1/2024	35	97	198	154
12/1/2024	34	96	196	153
1/1/2025	34	96	195	152
2/1/2025	34	96	194	151
3/1/2025	34	95	192	150
4/1/2025	33	94	190	149
5/1/2025	33	94	189	148
6/1/2025	33	93	187	146
7/1/2025	32	93	186	145
8/1/2025	32	92	185	144
9/1/2025	32	91	183	143
10/1/2025	32	91	182	142
11/1/2025	31	90	180	141
12/1/2025	31	90	179	140
1/1/2026	31	89	178	139
2/1/2026	30	89	176	138
3/1/2026	30	88	175	137
4/1/2026	30	87	174	136
5/1/2026	30	87	172	135
6/1/2026	29	86	171	134
7/1/2026	29	86	170	133
8/1/2026	29	85	169	132
9/1/2026	29	85	168	131
10/1/2026	28	84	166	130
11/1/2026	28	84	165	129
12/1/2026	28	83	164	128
1/1/2027	28	83	163	127
2/1/2027	27	82	162	127
3/1/2027	27	82	161	126
4/1/2027	27	81	160	125
5/1/2027	27	81	159	124
6/1/2027	27	80	158	123

7/1/2027	2 6	8 0	15 7	12.3
8/1/2027	2 6	7 9	15 5	12 2
9/1/2027	2 6	7 9	15 4	12.1
10/1/2027	2 6	7 8	15.3	12 0
11/1/2027	2 6	7 8	15.2	11 9
12/1/2027	2 5	7 7	15.2	11 9
1/1/2028	2 5	7 6	15 0	11 8
2/1/2028	2 5	7 6	14.9	11 7
3/1/2028	2 5	7.5	14 8	11 6
4/1/2028	2 4	7 5	14 7	11.5
5/1/2028	2 4	7 4	14.6	11 5
6/1/2028	2 4	7 4	14.6	11 4
7/1/2028	2 4	7 4	14.5	11 3
8/1/2028	2 4	7 3	14 4	11 3
9/1/2028	2 4	7 3	14.3	11 2
10/1/2028	2 3	7 2	14.2	11 1
11/1/2028	2 3	7 2	14.1	11 1
12/1/2028	2 3	7 1	14.0	11 0
1/1/2029	2 3	7.1	14 0	11 0
2/1/2029	2 3	7 1	13 9	10 9
3/1/2029	2 3	7 0	13 8	10 8
4/1/2029	2.2	7 0	13 7	10.8
5/1/2029	2 2	6 9	13 7	10.7
6/1/2029	2 2	6 9	13 6	10.6
7/1/2029	2.2	6 8	13 5	10.6
8/1/2029	2 2	6 8	13 4	10.5
9/1/2029	2 2	6 8	13 3	10 4
10/1/2029	2 1	6.7	13 2	10 4
11/1/2029	2 1	6.7	13 2	10 3
12/1/2029	2 1	6.6	13.1	10.3
1/1/2030	2 1	6.6	13.0	10 2
2/1/2030	2 1	6.5	12.9	10 1
3/1/2030	2 1	6.5	12.9	10 1
4/1/2030	2.1	6.5	12.8	10 0
5/1/2030	2 0	6 4	12 7	9.9
6/1/2030	2 0	6 4	12 6	9.9
7/1/2030	2 0	6 3	12 5	9 8
8/1/2030	2 0	6 3	12 5	9 8
9/1/2030	2.0	6.3	12 4	9 7
10/1/2030	2.0	6.2	12.3	9 6
11/1/2030	2 0	6 2	12.2	9.6
12/1/2030	1 9	6 1	12 2	9 5
1/1/2031	1.9	6.1	12 1	9 5
2/1/2031	1 9	6 1	12.0	9 4
3/1/2031	1 9	6 0	12 0	9 4
4/1/2031	1.9	6.0	11.9	9.3
5/1/2031	1 9	6.0	11 8	9 3

6/1/2031	19	59	117	92
7/1/2031	18	59	117	91
8/1/2031	18	58	11.6	91
9/1/2031	18	58	11.5	90
10/1/2031	18	58	11.5	90
11/1/2031	18	57	11.4	89
12/1/2031	18	57	11.3	89
1/1/2032	18	5.6	11.2	8.8
2/1/2032	18	5.6	11.2	8.7
3/1/2032	17	5.6	11.1	8.7
4/1/2032	17	5.5	11.0	8.6
5/1/2032	17	5.5	11.0	8.6
6/1/2032	17	5.5	10.9	8.5
7/1/2032	17	5.4	10.8	8.5
8/1/2032	17	5.4	10.8	8.4
9/1/2032	17	5.4	10.7	8.4
10/1/2032	17	5.3	10.6	8.3
11/1/2032	17	5.3	10.6	8.3
12/1/2032	16	5.3	10.5	8.2
1/1/2033	16	5.2	10.5	8.2
2/1/2033	16	5.2	10.4	8.1
3/1/2033	16	5.2	10.3	8.1
4/1/2033	16	5.1	10.3	8.1
5/1/2033	16	5.1	10.2	8.0
6/1/2033	16	5.1	10.2	8.0
7/1/2033	1.6	5.0	10.1	7.9
8/1/2033	1.6	5.0	10.0	7.9
9/1/2033	1.6	5.0	10.0	7.8
10/1/2033	1.5	5.0	9.9	7.8
11/1/2033	1.5	4.9	9.9	7.7
12/1/2033	1.5	4.9	9.8	7.7
1/1/2034	1.5	4.9	9.7	7.6
2/1/2034	1.5	4.8	9.7	7.6
3/1/2034	1.5	4.8	9.6	7.5
4/1/2034	1.5	4.8	9.6	7.5
5/1/2034	1.5	4.7	9.5	7.4
6/1/2034	1.5	4.7	9.4	7.4
7/1/2034	1.5	4.7	9.4	7.4
8/1/2034	1.5	4.7	9.3	7.3
9/1/2034	1.4	4.6	9.3	7.3
10/1/2034	1.4	4.6	9.2	7.2
11/1/2034	1.4	4.6	9.2	7.2
12/1/2034	1.4	4.5	9.1	7.1
1/1/2035	1.4	4.5	9.0	7.1
2/1/2035	1.4	4.5	9.0	7.0
3/1/2035	1.4	4.5	8.9	7.0
4/1/2035	1.4	4.4	8.9	7.0

5/1/2035	1.4	4.4	8.8	6.9
6/1/2035	1.4	4.4	8.8	6.9
7/1/2035	1.4	4.3	8.7	6.8
8/1/2035	1.4	4.3	8.7	6.8
9/1/2035	1.3	4.3	8.6	6.8
10/1/2035	1.3	4.3	8.6	6.7
11/1/2035	1.3	4.2	8.5	6.7
12/1/2035	1.3	4.2	8.5	6.6
1/1/2036	1.3	4.2	8.4	6.6
2/1/2036	1.3	4.1	8.3	6.5
3/1/2036	1.3	4.1	8.3	6.5
4/1/2036	1.3	4.1	8.2	6.5
5/1/2036	1.3	4.1	8.2	6.4
6/1/2036	1.3	4.0	8.1	6.4
7/1/2036	1.3	4.0	8.1	6.3
8/1/2036	1.3	4.0	8.0	6.3
9/1/2036	1.3	4.0	8.0	6.3
10/1/2036	1.3	3.9	8.0	6.2
11/1/2036	1.2	3.9	7.9	6.2
12/1/2036	1.2	3.9	7.9	6.2
1/1/2037	1.2	3.9	7.8	6.1
2/1/2037	1.2	3.8	7.8	6.1
3/1/2037	1.2	3.8	7.7	6.1
4/1/2037	1.2	3.8	7.7	6.0
5/1/2037	1.2	3.8	7.6	6.0
6/1/2037	1.2	3.8	7.6	6.0
7/1/2037	1.2	3.7	7.6	5.9
8/1/2037	1.2	3.7	7.5	5.9
9/1/2037	1.2	3.7	7.5	5.8
10/1/2037	1.2	3.7	7.4	5.8
11/1/2037	1.2	3.6	7.4	5.8
12/1/2037	1.2	3.6	7.3	5.7
1/1/2038	1.2	3.6	7.3	5.7
2/1/2038	1.1	3.6	7.2	5.7
3/1/2038	1.1	3.5	7.2	5.6
4/1/2038	1.1	3.5	7.2	5.6
5/1/2038	1.1	3.5	7.1	5.6
6/1/2038	1.1	3.5	7.1	5.5
7/1/2038	1.1	3.5	7.0	5.5
8/1/2038	1.1	3.4	7.0	5.5
9/1/2038	1.1	3.4	6.9	5.4
10/1/2038	1.1	3.4	6.9	5.4
11/1/2038	1.1	3.4	6.9	5.4
12/1/2038	1.1	3.3	6.8	5.3
1/1/2039	1.1	3.3	6.8	5.3
2/1/2039	1.1	3.3	6.7	5.3
3/1/2039	1.1	3.3	6.7	5.2

4/1/2039	1 1	3 3	6 7	5 2
5/1/2039	1 1	3 2	6.6	5 2
6/1/2039	1 1	3 2	6 6	5 1
7/1/2039	1 1	3 2	6 5	5 1
8/1/2039	1 0	3 2	6 5	5 1
9/1/2039	1.0	3 2	6 5	5 1
10/1/2039	1 0	3 1	6 4	5 0
11/1/2039	1.0	3 1	6.4	5 0
12/1/2039	1 0	3 1	6.3	5.0
1/1/2040	1 0	3 1	6 3	4.9
2/1/2040	1 0	3 1	6 2	4.9
3/1/2040	1 0	3 0	6 2	4.9
4/1/2040	0.2	3 0	6 2	4 8
5/1/2040	0 0	3 0	6 1	4 8
6/1/2040	0 0	3 0	6.1	4 8
7/1/2040	0 0	3 0	6.1	4.7
8/1/2040	0 0	2 9	6 0	4 7
9/1/2040	0 0	2 9	6 0	4 7
10/1/2040	0.0	2 9	5 9	4 7
11/1/2040	0 0	2 9	5 9	4 6
12/1/2040	0 0	2 9	5 9	4 6
1/1/2041	0 0	2 9	5 9	4 6
2/1/2041	0 0	2 8	5 8	4 6
3/1/2041	0 0	2 8	5.8	4 5
4/1/2041	0 0	2 8	5 8	4 5
5/1/2041	0 0	2 8	5 7	4 5
6/1/2041	0 0	2 8	5 7	4 5
7/1/2041	0 0	2 8	5 7	4 4
8/1/2041	0 0	2 7	5 6	4 4
9/1/2041	0.0	2 7	5.6	4 4
10/1/2041	0 0	2 7	5 5	4.3
11/1/2041	0 0	2 7	5 5	4 3
12/1/2041	0 0	2 7	5.5	4 3
1/1/2042	0.0	2 7	5 4	4 3
2/1/2042	0 0	2 6	5 4	4 2
3/1/2042	0.0	2 6	5 4	4.2
4/1/2042	0 0	2 6	5 4	4 2
5/1/2042	0 0	2 6	5 3	4.2
6/1/2042	0 0	2 6	5 3	4.1
7/1/2042	0 0	2 6	5 3	4 1
8/1/2042	0 0	2 5	5 2	4.1
9/1/2042	0.0	2 5	5.2	4 1
10/1/2042	0 0	2 5	5 2	4 0
11/1/2042	0 0	2 5	5 1	4 0
12/1/2042	0.0	2 5	5.1	4.0
1/1/2043	0.0	2 5	5 1	4 0
2/1/2043	0.0	2 4	5 0	3.9

3/1/2043	00	24	50	39
4/1/2043	00	24	50	3.9
5/1/2043	00	24	49	3.9
6/1/2043	00	24	49	3.9
7/1/2043	00	24	49	3.8
8/1/2043	00	24	49	3.8
9/1/2043	00	23	48	3.8
10/1/2043	00	23	48	3.8
11/1/2043	00	23	48	3.7
12/1/2043	00	23	47	3.7
1/1/2044	00	23	47	3.7
2/1/2044	00	23	47	3.7
3/1/2044	00	22	46	3.6
4/1/2044	00	22	46	3.6
5/1/2044	00	22	46	3.6
6/1/2044	0.0	22	4.6	3.6
7/1/2044	00	22	4.5	3.6
8/1/2044	00	22	4.5	3.5
9/1/2044	00	22	4.5	3.5
10/1/2044	0.0	2.1	4.5	3.5
11/1/2044	00	2.1	4.4	3.5
12/1/2044	00	2.1	4.4	3.4
1/1/2045	00	2.1	4.4	3.4
2/1/2045	00	2.1	4.4	3.4
3/1/2045	00	2.1	4.3	3.4
4/1/2045	00	2.1	4.3	3.4
5/1/2045	0.0	2.1	4.3	3.4
6/1/2045	00	2.0	4.3	3.3
7/1/2045	00	2.0	4.2	3.3
8/1/2045	00	2.0	4.2	3.3
9/1/2045	00	2.0	4.2	3.3
10/1/2045	00	2.0	4.2	3.3
11/1/2045	0.0	2.0	4.1	3.2
12/1/2045	00	2.0	4.1	3.2
1/1/2046	00	2.0	4.1	3.2
2/1/2046	0.0	1.9	4.1	3.2
3/1/2046	00	1.9	4.0	3.2
4/1/2046	00	1.9	4.0	3.1
5/1/2046	0.0	1.9	4.0	3.1
6/1/2046	00	1.9	4.0	3.1
7/1/2046	00	1.9	3.9	3.1
8/1/2046	00	1.9	3.9	3.1
9/1/2046	00	1.9	3.9	3.0
10/1/2046	00	1.9	3.9	3.0
11/1/2046	0.0	1.8	3.8	3.0
12/1/2046	0.0	1.8	3.8	3.0
1/1/2047	00	1.8	3.8	3.0

2/1/2047	00	18	38	30
3/1/2047	00	18	37	29
4/1/2047	00	18	37	29
5/1/2047	00	18	37	29
6/1/2047	00	18	37	29
7/1/2047	00	18	37	29
8/1/2047	00	17	36	28
9/1/2047	00	17	36	28
10/1/2047	00	17	36	28
11/1/2047	0.0	17	36	2.8
12/1/2047	0.0	17	35	2.8
1/1/2048	00	17	35	2.8
2/1/2048	00	17	35	2.7
3/1/2048	00	17	35	2.7
4/1/2048	00	16	3.5	2.7
5/1/2048	00	16	3.4	2.7
6/1/2048	00	16	3.4	2.7
7/1/2048	00	1.6	3.4	2.7
8/1/2048	00	1.6	3.4	2.6
9/1/2048	00	1.6	3.4	2.6
10/1/2048	00	1.6	3.3	2.6
11/1/2048	00	1.6	3.3	2.6
12/1/2048	00	1.6	3.3	2.6
1/1/2049	00	1.6	3.3	2.6
2/1/2049	00	1.6	3.3	2.6
3/1/2049	00	1.5	3.2	2.5
4/1/2049	00	1.5	3.2	2.5
5/1/2049	00	1.5	3.2	2.5
6/1/2049	00	1.5	3.2	2.5
7/1/2049	00	1.5	3.2	2.5
8/1/2049	00	1.5	3.1	2.5
9/1/2049	0.0	1.5	3.1	2.4
10/1/2049	00	1.5	3.1	2.4
11/1/2049	0.0	1.5	3.1	2.4
12/1/2049	00	1.5	3.1	2.4
1/1/2050	0.0	1.4	3.1	2.4
2/1/2050	00	1.4	3.0	2.4
3/1/2050	00	1.4	3.0	2.4
4/1/2050	0.0	1.4	3.0	2.3
5/1/2050	00	1.4	3.0	2.3
6/1/2050	00	1.4	3.0	2.3
7/1/2050	00	1.4	2.9	2.3
8/1/2050	00	1.4	2.9	2.3
9/1/2050	00	1.4	2.9	2.3
10/1/2050	00	1.4	2.9	2.3
11/1/2050	00	1.4	2.9	2.3
12/1/2050	00	1.4	2.9	2.2

1/1/2051	00	13	28	22
2/1/2051	00	13	28	22
3/1/2051	00	13	28	22
4/1/2051	00	13	28	22
5/1/2051	00	13	28	22
6/1/2051	00	1.3	28	22
7/1/2051	00	1.3	27	21
8/1/2051	00	1.3	27	21
9/1/2051	00	13	27	21
10/1/2051	00	13	27	21
11/1/2051	00	1.3	27	2.1
12/1/2051	00	13	27	21
1/1/2052	00	12	26	21
2/1/2052	00	1.2	26	21
3/1/2052	00	1.2	26	2.0
4/1/2052	00	12	26	20
5/1/2052	0.0	1.2	26	20
6/1/2052	00	1.2	26	20
7/1/2052	00	12	25	20
8/1/2052	00	12	25	20
9/1/2052	00	12	2.5	20
10/1/2052	00	12	25	2.0
11/1/2052	00	12	25	19
12/1/2052	00	12	25	19
1/1/2053	00	12	25	19
2/1/2053	00	11	24	19
3/1/2053	00	11	24	19
4/1/2053	00	11	24	19
5/1/2053	00	11	24	19
6/1/2053	00	11	24	19
7/1/2053	00	11	24	19
8/1/2053	00	1.1	24	18
9/1/2053	00	11	23	18
10/1/2053	0.0	1.1	2.3	1.8
11/1/2053	00	11	23	18
12/1/2053	00	11	23	18
1/1/2054	00	11	23	18
2/1/2054	00	11	23	18
3/1/2054	00	11	2.3	1.8
4/1/2054	00	11	22	18
5/1/2054	00	10	22	17
6/1/2054	0.0	10	22	17
7/1/2054	00	1.0	22	17
8/1/2054	00	10	22	17
9/1/2054	00	10	22	17
10/1/2054	00	10	22	17
11/1/2054	00	05	21	17

12/1/2054	00	00	21	17
1/1/2055	00	00	21	17
2/1/2055	00	00	21	17
3/1/2055	00	00	21	16
4/1/2055	00	00	21	16
5/1/2055	00	00	21	16
6/1/2055	0.0	00	21	16
7/1/2055	0.0	00	2.0	16
8/1/2055	00	00	20	1.6
9/1/2055	00	00	20	1.6
10/1/2055	00	00	20	1.6
11/1/2055	00	00	20	1.6
12/1/2055	00	00	20	16
1/1/2056	0.0	00	20	1.5
2/1/2056	0.0	0.0	20	15
3/1/2056	00	00	19	15
4/1/2056	00	00	19	15
5/1/2056	0.0	00	19	15
6/1/2056	00	00	19	1.5
7/1/2056	00	00	19	15
8/1/2056	00	00	19	15
9/1/2056	0.0	0.0	19	15
10/1/2056	00	00	19	15
11/1/2056	00	00	19	15
12/1/2056	00	0.0	18	14
1/1/2057	00	00	18	14
2/1/2057	00	00	18	14
3/1/2057	00	00	18	1.4
4/1/2057	0.0	00	18	1.4
5/1/2057	00	00	18	14
6/1/2057	00	0.0	18	14
7/1/2057	00	0.0	18	1.4
8/1/2057	00	00	18	14
9/1/2057	0.0	00	1.8	14
10/1/2057	00	00	17	14
11/1/2057	0.0	00	17	14
12/1/2057	00	0.0	17	13
1/1/2058	00	00	17	13
2/1/2058	0.0	00	17	13
3/1/2058	0.0	00	17	1.3
4/1/2058	00	00	17	1.3
5/1/2058	0.0	00	17	13
6/1/2058	0.0	00	17	13
7/1/2058	00	00	16	13
8/1/2058	00	00	16	13
9/1/2058	00	00	16	13
10/1/2058	0.0	00	16	13

11/1/2058	00	00	16	13
12/1/2058	00	00	16	13
1/1/2059	00	00	16	12
2/1/2059	00	00	16	12
3/1/2059	00	00	16	12
4/1/2059	00	00	16	12
5/1/2059	00	00	16	12
6/1/2059	00	00	15	12
7/1/2059	00	00	15	12
8/1/2059	00	00	15	12
9/1/2059	00	00	15	12
10/1/2059	00	00	15	12
11/1/2059	00	00	15	12
12/1/2059	00	00	15	12

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

District II  
1301 W. Grand Avenue, Artesia, NM 88210

District III  
1000 Rto Brazos Rd., Artec, NM 87410

District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

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 October 15, 2009  
Submit one copy to appropriate  
District Office

AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

1 API Number <b>70-015-39229</b>		2 Pool Code <b>96757</b>		3 Pool Name <b>COTTON DRAW, DEL, SOUTH</b>	
4 Property Code <b>38723</b>		5 Property Name <b>COTTON DRAW "10" FED. COM</b>			6 Well Number <b>1H</b>
7 OGRID No <b>6137</b>		8 Operator Name <b>DEVON ENERGY PRODUCTION COMPANY, L.P.</b>			9 Elevation <b>3375.6</b>

10 Surface Location

LL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>O</b>	<b>10</b>	<b>25 S</b>	<b>31 E</b>		<b>330</b>	<b>SOUTH</b>	<b>2310</b>	<b>EAST</b>	<b>EDDY</b>

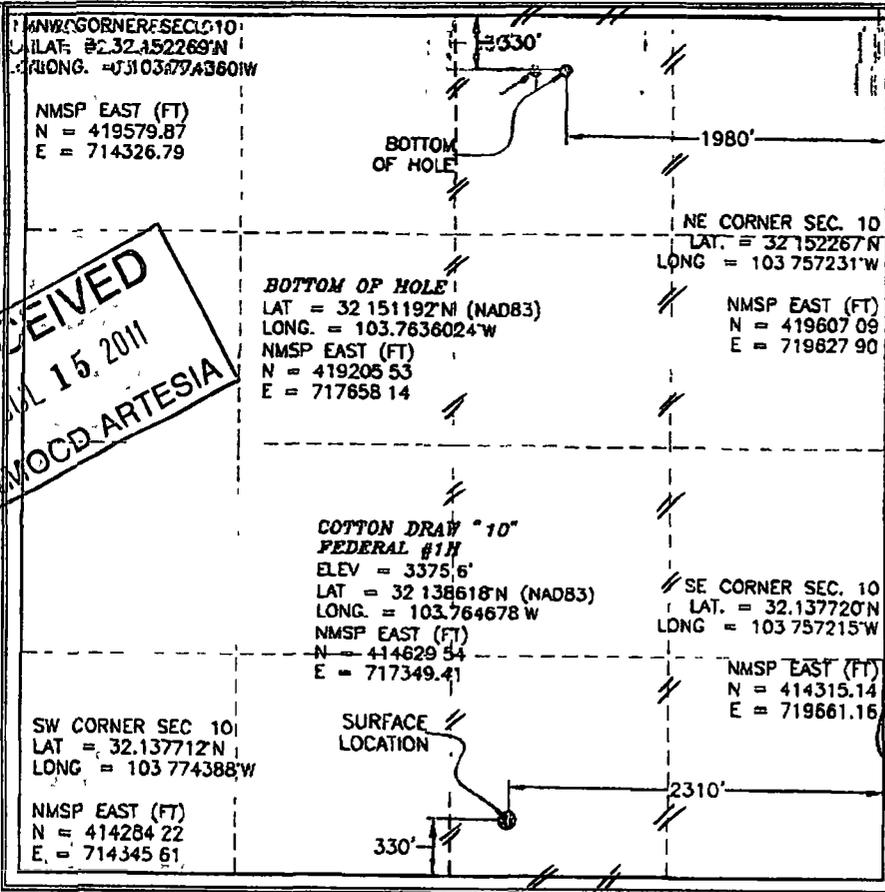
11 Bottom Hole Location If Different From Surface

LL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>B</b>	<b>10</b>	<b>25 S</b>	<b>31 E</b>		<b>330</b>	<b>NORTH</b>	<b>1980</b>	<b>EAST</b>	<b>EDDY</b>

12 Dedicated Acres <b>1.60</b>	13 Joint or Infill	14 Consolidation Code	15 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.

**RECEIVED**  
JUL 15 2011  
NM OGD ARTESIA

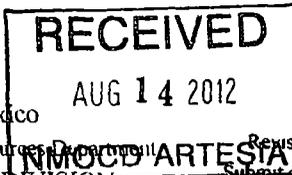


**OPERATOR CERTIFICATION**  
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this operator or its agents are working interest or subsurface mineral interest in the land including the proposed bottom hole location or has a right 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.

Signature: *Spence Laird* Date: **3/30/11**  
Printed Name: **SPENCE LAIRD, REGULATORY ANALYST**

**SURVEYOR CERTIFICATION**  
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.

Signature and Seal of Professional Surveyor: *Filimon Jaramillo*  
Certificate Number: **FILIMON JARAMILLO, PLS 12797**  
Date of Survey: **FEBRUARY 14, 2011**  
SURVEY NO 237-R2



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

District II  
1301 W Grand Avenue, Artesia, NM 88210

District III  
1000 Rio Brazos Rd., Aztec, NM 87410

District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

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 October 15, 2009  
Submit one copy to appropriate  
District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30 015 39230		<sup>2</sup> Pool Code 56757		<sup>3</sup> Pool Name COTTON DRAW, DELAWARE SOUTH	
<sup>4</sup> Property Code 38723	<sup>5</sup> Property Name COTTON DRAW "10" FEDERAL			<sup>6</sup> Well Number 2H	
<sup>7</sup> OGRID No 6137	<sup>8</sup> Operator Name DEVON ENERGY PRODUCTION COMPANY, L P			<sup>9</sup> Elevation 3422.3	

<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
A	10	25 S	31 E		330	NORTH	660	EAST	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
P	10	25 S	31 E		398	SOUTH	597	EAST	EDDY

<sup>12</sup> Dedicated Acre(s) 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>NW CORNER SEC 10 LAT = 32 152269 N LONG = 103 774360 W NMSP EAST (FT) N = 419518.48 E = 714333.76</p>	<p>COTTON DRAW "10" FEDERAL #2H ELEV = 3422.3' LAT = 32 151361 N (NAD83) LONG = 103 759363 W NMSP EAST (FT) N = 419212.42 E = 718978.03</p> <p>PP 300' FNL &amp; 642' FEL</p>	<p><b>17 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 the signatory herein either owns a working interest or undivided mineral interest in the land underlying the proposed bottom hole location or has a right to drill in, well on this location pursuant to an agreement 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>D. R.</i> 8/2/2012 Signature Date Printed Name: David H Cook Regulatory Specialist</p>
<p>SW CORNER SEC 10 LAT = 32 137712 N LONG = 103 774388 W NMSP EAST (FT) N = 414221.67 E = 714352.59</p>	<p>BOTTOM OF HOLE LAT = 32 138624 N LONG = 103 759348 W NMSP EAST (FT) N = 414578.02 E = 719007.27</p>	<p><b>18 SURVEYOR CERTIFICATION</b> I hereby certify that the well location shown on this plat was plotted from the notes of actual surveys made hereunder under my supervision and that the same comply with the laws of the State of New Mexico.</p> <p>ELIMON F. JARAMILLO 12797 District Surveyor</p> <p><i>Elimon F. Jaramillo</i> Signature and Seal of Professional Surveyor Certificate Number: ELIMON F. JARAMILLO PLS 12797 SURVY NO 238-R1</p>

District I  
1625 N. French Dr. Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720  
District II  
311 S. First St. Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720  
District III  
1000 Rio Brazos Road, Aztec, 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

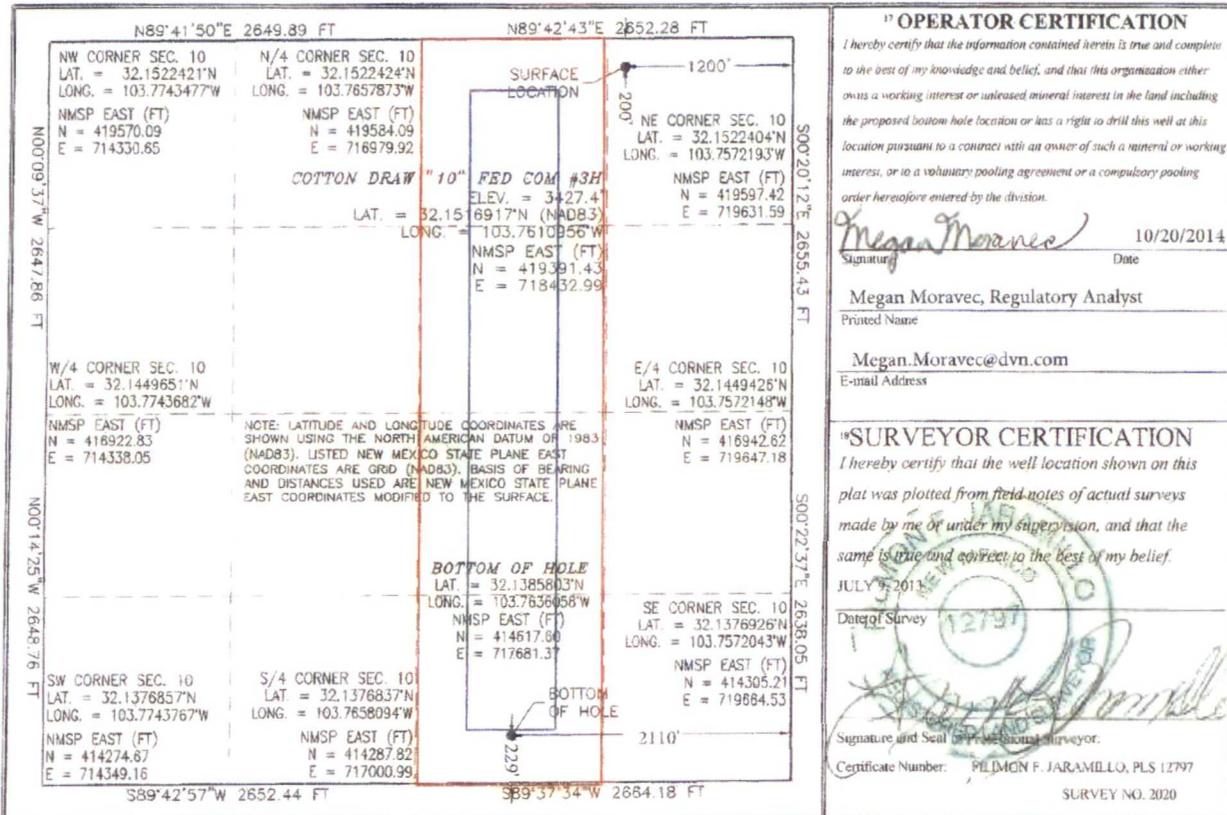
Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-015-42126		<sup>2</sup> Pool Code 96641		<sup>3</sup> Pool Name Paduca; Bone Spring					
<sup>4</sup> Property Code 38723		<sup>5</sup> Property Name COTTON DRAW 10 FED COM			<sup>6</sup> Well Number 3H				
<sup>7</sup> OGRID No. 6137		<sup>8</sup> Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.			<sup>9</sup> Elevation 3427.4				
<sup>10</sup> Surface Location									
UL or lot no. A	Section 10	Township 25 S	Range 31 E	Lot Idn 200	Feet from the 200	North/South line NORTH	Feet from the 1200	East/West line EAST	County EDDY
<sup>11</sup> Bottom Hole Location If Different From Surface									
UL or lot no. O	Section 10	Township 25 S	Range 31 E	Lot Idn 229	Feet from the 229	North/South line SOUTH	Feet from the 2110	East/West line EAST	County 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.



PP: 311' FNL & 1383' FEL, Sec 10, T25S, R31E

Project Area:   
Producing Area:

**District I**  
16.5 N French Dr Hobbs NM 8840  
Phone (575) 961-6101 Fax (575) 961-0100

**District II**  
311 S First St Artesia NM 88210  
Phone (575) 718-1155 Fax (575) 718-0770

**District III**  
1000 Rio Brazos Road Aztec NM 87410  
Phone (505) 461-7575 Fax (505) 461-6170

**District IV**  
120 S St Francis Dr Santa Fe NM 87505  
Phone (505) 476-4601 Fax (505) 476-4600

**NM OIL CONSERVATION**  
State of New Mexico ARTESIA DISTRICT  
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  
District Office

**RECEIVED**

AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

1 API Number <b>30-015-42127</b>		2 Pool Code <b>96641</b>		3 Pool Name <b>Paduca, Bone Spring</b>	
4 Property Code <b>38723</b>		5 Property Name <b>COTTON DRAW 10 FED COM</b>			6 Well Number <b>411</b>
OC RID No <b>6137</b>		7 Operator Name <b>DEVON ENERGY PRODUCTION COMPANY, L P</b>			8 Elevation <b>3428.2</b>

**9 Surface Location**

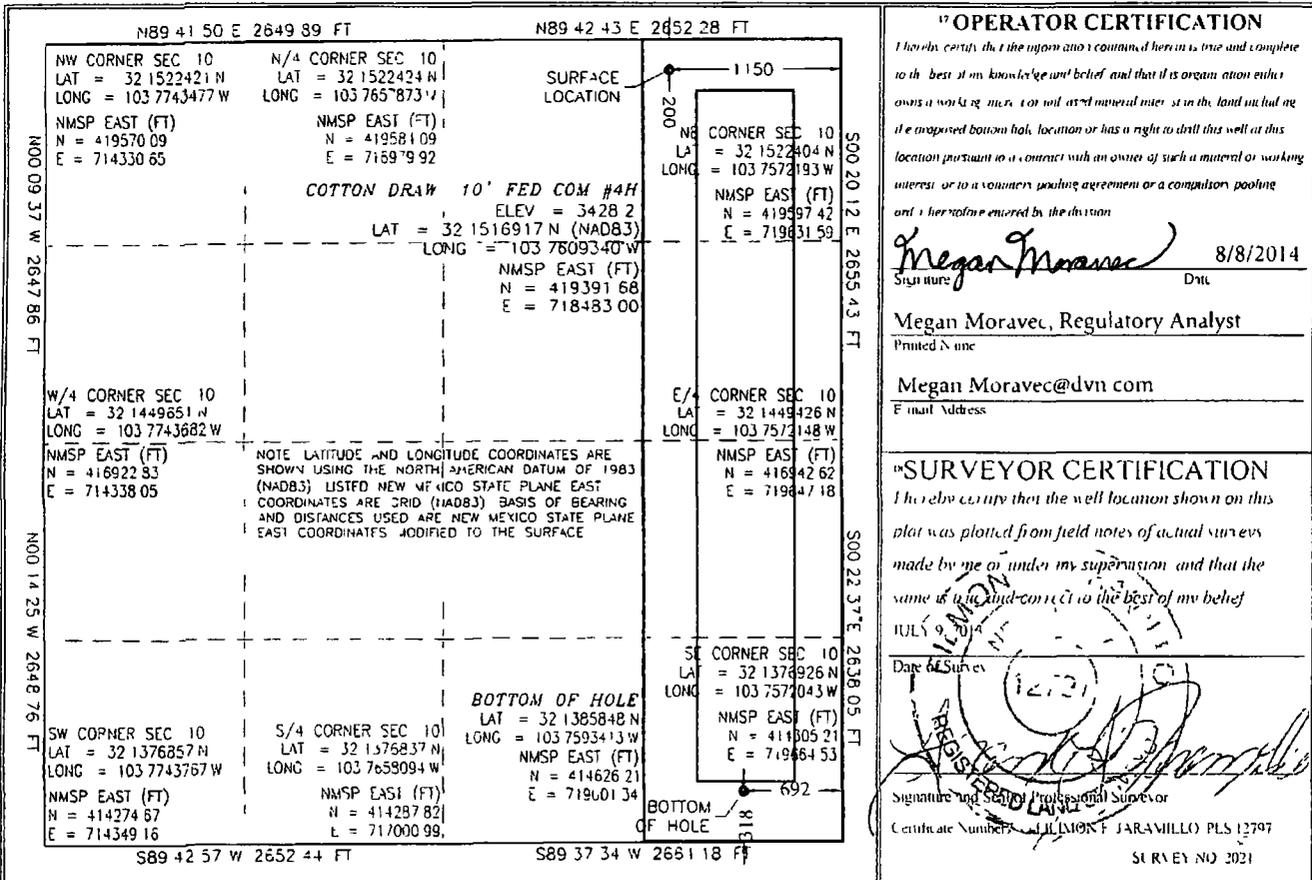
LL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	10	25 S	31 E		200	NORTH	1150	EAST	EDDY

**10 Bottom Hole Location If Different From Surface**

LL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	10	25 S	31 E		318	SOUTH	692	EAST	EDDY

11 Dedicatd Acres	12 Joint or Infill	13 Consolidation Code	14 Order No

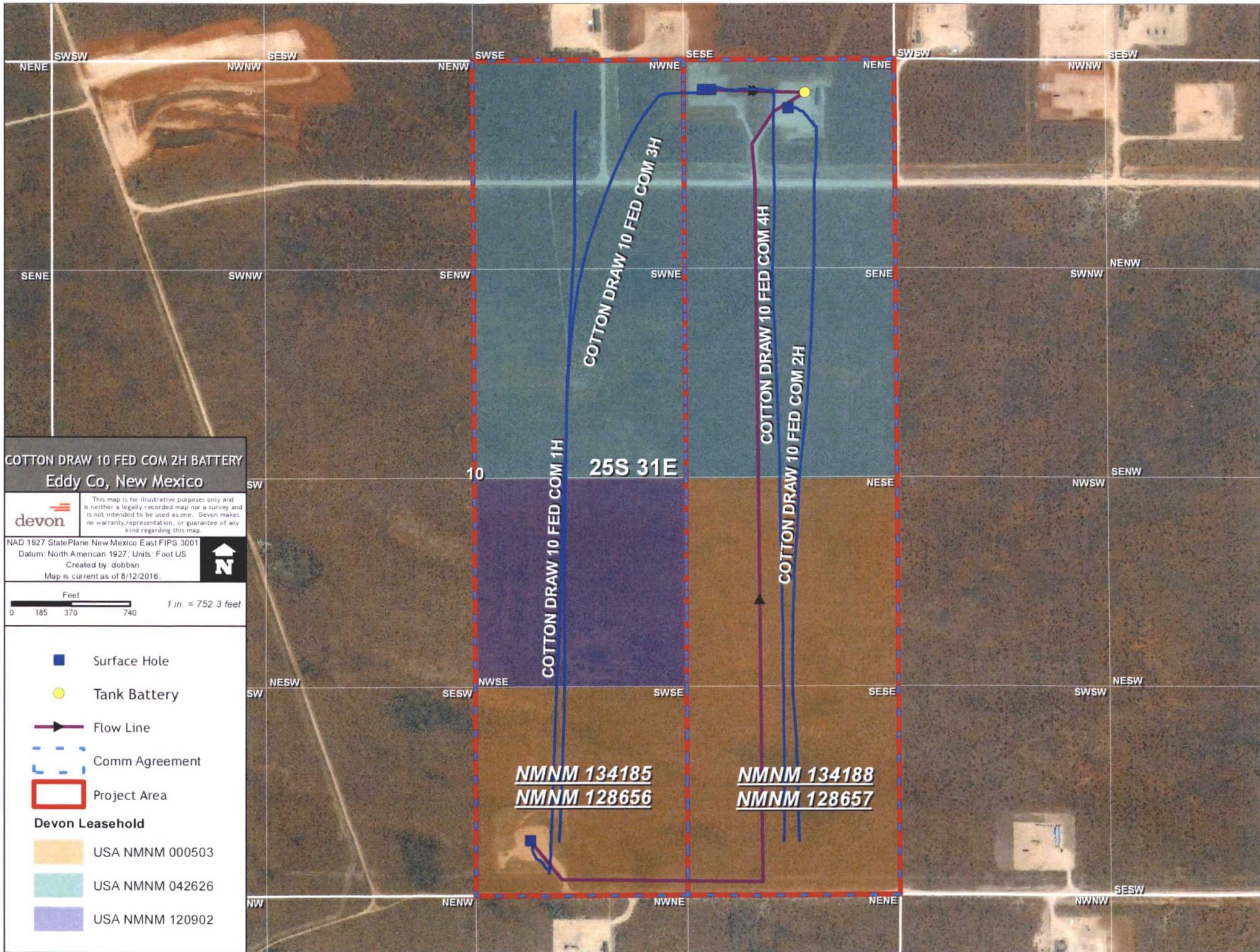
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division



PP 206' FNL & 791 FEL, Sec 10, T25S, R31E

Project Area   
Producing Area

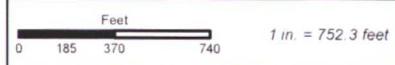
Name1	Int Type	Name2	Name3	Street 1	City	State	Postal Code	certified mailing tracking number
XTO ENERGY INC	WI	JP MORGAN CHASE DALLAS		PO BOX 730586	DALLAS	TX	75373-0586	9214 8901 5271 8100 1734 72
CHEVRON U S A INC	WI			PO BOX 730436	DALLAS	TX	75373-0436	9214 8901 5271 8100 1745 47
JOHN E COCHRAN	OR	AKA JOHN EDWIN COCHRAN III		PO BOX 1046	TROY	AL	36081-1046	9214 8901 5271 8100 1734 96
BALLARD E SPENCER TRUST INC	OR			PO BOX 6	ARTESIA	NM	88211-0006	9214 8901 5271 8100 1735 02
JANICE MENDOZA BRYAN	OR			PO BOX 972	POHNPEI	FM	96941	9214 8901 5271 8100 1745 30
BARRY EUGENE BRYAN	OR			PO BOX 207	VIDA	OR	97488	9214 8901 5271 8100 1735 19
BRYNNE LEE BRYAN	OR			900 W 14TH ST APT 7	SAN PEDRO	CA	90731-3938	9214 8901 5271 8100 1735 26
EDEN MENDOZA BRYAN	OR			31 MEYERS CT	GREENVILLE	SC	29609	9214 8901 5271 8100 1735 33
BETTY JO BRYAN BRADSHAW	OR			PO BOX 761	PLACITAS	NM	87043	9214 8901 5271 8100 1735 40
DON R MERCHANT	OR	% JOHN N MERCHANT & MARGARET	J HIDEK POA	59 DAMONTE RANCH PRKWY STE B 205	RENO	NV	89521	9214 8901 5271 8100 1745 16
WALLACE MERCHANT TRUST	OR	CHARLES MERCHANT &	DOROTHY LEE SMITH SUCC TTEES	1552 MADISON 1520	HUNTSVILLE	AR	72740	9214 8901 5271 8100 1735 64
ONRR	RI	ROYALTY MANAGEMENT PROGRAM		PO BOX 25627	DENVER	CO	80225-0627	9214 8901 5271 8100 1735 71
690 COMPANY LLC	OR	VAN A WEBSTER REGISTERED	AGENT	PO BOX 690	ARTESIA	NM	88211-0690	9214 8901 5271 8100 1735 88
JAF 335 LLC	OR	BEN P FAIREY MGR		PO BOX 5948	GRANBURY	TX	76049-0948	9214 8901 5271 8100 1735 95
SHIRLEY MAY CHILDRESS	OR			604 N DELAWARE AVE APT 2	ROSWELL	NM	88201	9214 8901 5271 8100 1736 01
MCCAW PROPERTIES LLC	OR	A NEW MEXICO LIMITED LIABILITY CO WILLIAM J MCCAW PARTNER		PO BOX 127	ARTESIA	NM	88211-0376	9214 8901 5271 8100 1736 18



**COTTON DRAW 10 FED COM 2H BATTERY**  
**Eddy Co, New Mexico**

**devon** This map is for illustrative purposes only and is neither a legally recorded map nor a survey and is not intended to be used as one. Devon makes no warranty, representation, or guarantee of any kind regarding this map.

NAD 1927 StatePlane New Mexico East FIPS 3001  
 Datum: North American 1927; Units: Foot US  
 Created by: dobbsn  
 Map is current as of 8/12/2016.



- Surface Hole
- Tank Battery
- ▶ Flow Line
- Comm Agreement
- Project Area
- Devon Leasehold**
- USA NMNM 000503
- USA NMNM 042626
- USA NMNM 120902

10

**25S 31E**

**COTTON DRAW 10 FED COM 1H**

**COTTON DRAW 10 FED COM 3H**

**COTTON DRAW 10 FED COM 4H**

**COTTON DRAW 10 FED COM 2H**

**NMNM 134185**  
**NMNM 128656**

**NMNM 134188**  
**NMNM 128657**

**Gas Production**

WC Name	Year	Month	Gas DOI/Unit Name	Prod Days	Prod	Flare	Fuel 1
COTTON DRAW 10 FED COM 1	2016	1	COTTON DRAW 10 FED COM 1H	30	1,030	224	77
COTTON DRAW 10 FED COM 2H	2016	1	COTTON DRAW 10 FED COM 2H	30	2,052	446	155
COTTON DRAW 10 FED COM 3H	2016	1	COTTON DRAW 10 FED COM 3H	30	28,712	6,239	2,162
COTTON DRAW 10 FED COM 4H	2016	1	COTTON DRAW 10 FED COM 4H	28	12,012	2,610	904
COTTON DRAW 10 FED COM 1	2016	2	COTTON DRAW 10 FED COM 1H	29	952	74	62
COTTON DRAW 10 FED COM 2H	2016	2	COTTON DRAW 10 FED COM 2H	29	2,186	171	143
COTTON DRAW 10 FED COM 3H	2016	2	COTTON DRAW 10 FED COM 3H	29	30,479	2,385	1,987
COTTON DRAW 10 FED COM 4H	2016	2	COTTON DRAW 10 FED COM 4H	29	15,302	1,198	998
COTTON DRAW 10 FED COM 1	2016	3	COTTON DRAW 10 FED COM 1H	31	891	5	35
COTTON DRAW 10 FED COM 2H	2016	3	COTTON DRAW 10 FED COM 2H	31	2,069	12	83
COTTON DRAW 10 FED COM 3H	2016	3	COTTON DRAW 10 FED COM 3H	31	27,057	151	1,081
COTTON DRAW 10 FED COM 4H	2016	3	COTTON DRAW 10 FED COM 4H	31	14,130	79	566
COTTON DRAW 10 FED COM 1	2016	4	COTTON DRAW 10 FED COM 1H	30	1,120	7	39
COTTON DRAW 10 FED COM 2H	2016	4	COTTON DRAW 10 FED COM 2H	30	2,611	17	92
COTTON DRAW 10 FED COM 3H	2016	4	COTTON DRAW 10 FED COM 3H	30	29,885	196	1,059
COTTON DRAW 10 FED COM 4H	2016	4	COTTON DRAW 10 FED COM 4H	30	14,701	97	520
COTTON DRAW 10 FED COM 1	2016	5	COTTON DRAW 10 FED COM 1H	30	1,297	12	55
COTTON DRAW 10 FED COM 2H	2016	5	COTTON DRAW 10 FED COM 2H	31	1,797	17	77
COTTON DRAW 10 FED COM 3H	2016	5	COTTON DRAW 10 FED COM 3H	31	24,297	223	1,029
COTTON DRAW 10 FED COM 4H	2016	5	COTTON DRAW 10 FED COM 4H	31	14,317	132	606
COTTON DRAW 10 FED COM 1	2015	12	COTTON DRAW 10 FED COM 1H	26	980	179	62
COTTON DRAW 10 FED COM 2H	2015	12	COTTON DRAW 10 FED COM 2H	24	1,267	232	80
COTTON DRAW 10 FED COM 3H	2015	12	COTTON DRAW 10 FED COM 3H	26	33,454	6,103	2,138
COTTON DRAW 10 FED COM 4H	2015	12	COTTON DRAW 10 FED COM 4H	26	9,063	1,654	578

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO 1004-0135  
Expires July 31, 2010

**SUNDRY NOTICES AND REPORTS ON WELLS** **Operator**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals*

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1 Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5 Lease Serial No NMNM0503
2 Name of Operator DEVON ENERGY PRODUCTION CO		6 If Indian, Allottee or Tribe Name
3a Address 333 WEST SHERIDAN AVE OKLAHOMA CITY, OK 73102		7 If Unit or CA/Agreement, Name and No NMNM128657
3b Phone No (include area code) Ph 405-552-7970		8 Well Name and No COTTON DRAW 10 FED COM 2
4 Location of Well (Footage, Sec, T, R, M, or Survey Description) Sec 10 T25S R31E NENE 330FNL 660FEL 32 152267 N Lat, 103 757231 W Lon		9 API Well No 30-015-39230-00-S1
		10 Field and Pool, or Exploratory COTTON DRAW
		11 County or Parish, and State EDDY COUNTY, NM

**12 CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize <input type="checkbox"/> Deepen <input type="checkbox"/> Production (Start/Resume) <input type="checkbox"/> Water Sh
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Reclamation <input type="checkbox"/> Well Inte
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair <input type="checkbox"/> New Construction <input type="checkbox"/> Recomplete <input checked="" type="checkbox"/> Other Surface Con
	<input type="checkbox"/> Change Plans <input type="checkbox"/> Plug and Abandon <input type="checkbox"/> Temporarily Abandon
	<input type="checkbox"/> Convert to Injection <input type="checkbox"/> Plug Back <input type="checkbox"/> Water Disposal

13 Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration of the operation. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and Attach the Bond under which the work will be performed or provide the Bond No on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion, or recompletion in a new interval, a Form 3160-4 shall be filed testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

See attached

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

FEB 28 2017

Artesia, N.M.

14 I hereby certify that the foregoing is true and correct Electronic Submission #347758 verified by the BLM Well Information System For DEVON ENERGY PRODUCTION CO LP, sent to the Carlsbad Committed to AFMSS for processing by PRISCILLA PEREZ on 08/12/2016 (16PP2049SE)	
Name (Printed/Typed) ERIN WORKMAN	Title REGULATORY COMPLIANCE PROF
Signature (Electronic Submission)	Date 08/12/2016
<b>APPROVED</b>	
<b>THIS SPACE FOR FEDERAL OR STATE OFFICE USE</b>	
Approved By _____	Title _____ Date _____
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office _____

In response to Notice of Written orders DMB1606242 & DMB1606243, Devon Energy Production Co , LP respectfully request approval for surface\pool commingling\off-lease measurement, sales, & storage at the Cotton Draw 10 Fed Com 2H Battery the following wells

Cotton Draw 10 Fed Com 1H

SWSW, Sec 10, T25S, R31E ✓

30-015-39229

Cotton Draw, Delaware, South

NMNM128656 (12.5%)

Cotton Draw 10 Fed Com 2H

NENE, Sec 10, T25S, R31E ✓

30-015-39230

Cotton Draw, Delaware, South

NMNM128657

Cotton Draw 10 Fed Com 3H

NENE, Sec 10, T25S, R31E ✓

30-015-42126

Paduca, Bone Spring

NMNM134185

Cotton Draw 10 Fed Com 4H

NENE, Sec. 10, T25S, R31E ✓

30-015-42127

Paduca, Bone Spring

NMNM134188

The central tank battery is located on the Cotton Draw 10 Fed Com 2H in Sec 10, T25S, R31E, Eddy County, New Mexico. The Cotton Draw 10 Fed Com 1H & 2H will flow into a manifolded header with the ability to route each well to either a dedicated tester or production heater/treater. One well will be routed to the dedicated tester and one routed to the production heater/treater during operations. The well test method will be utilized once a month for a minimum of 24 hours to meter oil, water, and gas for either the 1H or 2H. Oil is measured with a Micro Motion Coriolis Meter, water is measured with a mag meter, and gas is measured with an orifice meter & EFM. The Cotton Draw 10 Fed Com 3H & 4H production are measured continuously through three phase separators using a Micro Motion Coriolis to meter the oil, mag meter to meter the water and an orifice meter to meter the gas. VRU gas is measured with an orifice meter and is allocated back to each well utilizing percentage of each well's monthly oil production.

The Cotton Draw 10 Fed Com 2H Battery contains 3 oil tanks. Oil from each well commingles downstream of the heater treaters and then flows into the tanks. They will share a common Devon Point of Royalty Measurement #390-33-569 on location at the Cotton Draw 10 Fed Com 2H battery located in Sec 10, T25S, R31E. They will also share a common LACT Sm Meter #Z 4215.

Attachments Deliverables & Notice of Written Orders

**Bureau of Land Management  
Carlsbad Field Office  
620 East Greene Street  
Carlsbad, New Mexico 88220  
575-234-5972**

**Condition of Approval  
Surface commingling**

- 1 This approval is subject to like approval by the New Mexico Oil Conservation Division
2. This agency shall be notified of any spill or discharge as required by NTL-3A
- 3 This agency reserves the right to modify or rescind approval whenever it determines continued use of the approved method may adversely affect the surface or subsurface environments
4. This approval does not constitute right-of-way approval for any off-lease activities. Within 30 days, an application for right-of-way approval must be submitted to the Realty Section if not already done.
5. Approval for combining production from various sources is a privilege which is granted to lessees for the purpose of aiding conservation and extending the economic life of leases. Applicants should be cognizant that failure to operate in accordance with the provisions outlined in the Authorized Officer's conditions of approval and/or subsequent stipulations or modifications will subject such approval to revocation.
6. Gas measurement for allocation must be measured as per Onshore Order #5 for sales meters
- 7 All gas and oil subject to royalty shall be measured as per federal regulations and shall be reported to ONRR as required. All gas which is vented, flared or used on lease shall be reported as per NTL-4A to ONRR. All gas which is vented or flared shall be subject to royalty, unless prior approval was given by the authorized officer
- 8 This agency shall be notified of any change in sales method or location of sales point
- 9 Additional wells and/or leases require additional commingling approvals
- 10 Notify this office 24 Hrs prior to any meter proving to allow time for an inspector to witness

**Four wells are being commingled (30-015-39229, 30-015-39230, 30-015-42126, & 30-015-42127). Three Federal Leases are involved NMNM-0503, NMNM-120902 and NMNM-042626. All four Wells have approved Com Agreements. Formations being produced are Delaware and Bone Spring. The Operator stated that the quality of hydrocarbons from the two formations will not affect the overall value when combined. Each well is 100% Federal and all leases are 12.5%, thus no royalties will be affected.**

**JAM 020217**

## McMillan, Michael, EMNRD

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**From:** Workman, Erin <Erin.Workman@devon.com>  
**Sent:** Tuesday, June 27, 2017 12:05 PM  
**To:** McMillan, Michael, EMNRD  
**Subject:** FW: Proposal for Cotton Draw 10 Fed Com 2H Battery

Below is the statement received from my engineer on the range for the wells producing to the Cotton Draw 10 Fed Com 2H Battery. Thanks and have a great day!

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**From:** Sharma, Anoop  
**Sent:** Monday, June 26, 2017 4:10 PM  
**To:** Workman, Erin <Erin.Workman@devon.com>  
**Subject:** Proposal for Cotton Draw 10 Fed Com 2H Battery

Erin,

Production declines for Cotton Draw 10 Fed Com 1H, Cotton Draw 10 Fed Com 2H, Cotton Draw 10 Fed Com 3H and Cotton Draw 10 Fed Com 4H are indicating that they are in the Range 3 decline.

Regards,

**Anoop Sharma**  
*Reservoir Engineer*

**Devon Energy Corporation**  
333 West Sheridan Ave  
Oklahoma City, OK 73102  
Office 405-552-4694  
Cell 405-245-9457

**Confidentiality Warning:** This message and any attachments are intended only for the use of the intended recipient(s), are confidential, and may be privileged. If you are not the intended recipient, you are hereby notified that any review, retransmission, conversion to hard copy, copying, circulation or other use of all or any portion of this message and any attachments is strictly prohibited. If you are not the intended recipient, please notify the sender immediately by return e-mail, and delete this message and any attachments from your system.

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

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

CASE NO. 15540  
ORDER NO. R-14299

APPLICATION OF OXY USA, INC. FOR APPROVAL OF SURFACE LEASE  
COMMINGLING, OFF-LEASE STORAGE, AND OFF-LEASE MEASUREMENT,  
EDDY COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This case came on for hearing at 8 15 a m on September 15, 2016 at Santa Fe, New Mexico, and again on January 5, 2017, both before Examiner William V Jones

NOW, on this 14th day of February, 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 its subject matter

(2) The applicant, OXY USA, Inc ("OXY"), seeks approval for surface lease commingling within one pool, off-lease storage, and off-lease measurement of oil and associated gas production

(3) OXY also seeks an exception to the metering requirements of 19 15 12 10 C (1) NMAC by authorizing the allocation of production from diversely owned, horizontally drilled oil wells on the basis of periodic well tests

(4) OXY proposes to commingle oil and gas production from all current and future wells producing from the Pierce Crossing, Bone Spring, East Pool (96473) underlying the following acreage ("subject acreage")

Township 24 South, Range 29 East, NMPM, Eddy County, New Mexico

Section 22 S/2 N/2 and N/2 S/2

Section 23 All

Section 24 W/2

(5) The following wells (with associated acreage dedication) are drilled or currently planned for drilling within the subject acreage

Cedar Canyon 22 Federal Well No 21H (API No 30-015-43642)  
S/2 N/2 Section 22 (160 acres)

Cedar Canyon 22 Federal Com Well No 4H (API No 30-015-43708)  
N/2 S/2 Section 22 (160 acres)

Cedar Canyon 23 Federal Well No 3H (API No 30-015-43290)  
Cedar Canyon 23 Federal Well No 4H (API No 30-015-43281)  
S/2 N/2 Section 23 and S/2 NW/4 Section 24 (240 acres)

Cedar Canyon 23 Federal Well No 5H (API No 30-015-43282)  
N/2 N/2 Section 23 and N/2 SW/4 Section 24 (240 acres)

Cedar Canyon 23 Federal Com Well No 6H (API No 30-015-Pending)  
Cedar Canyon 23 Federal Com Well No 33H (API No 30-015-Pending)  
N/2 S/2 Section 23 and N/2 SW/4 Section 24 (240 acres)

S/2 S/2 Section 23 No Wells Permitted at this time  
SW/4 Section 24 No Wells Permitted at this time

(6) Each well proposed for commingling within this acreage produces from the Pierce Crossing, Bone Spring, East Pool (96473) which is governed by Special Rules promulgated by Division Order No R-13248 in Case No 14420 Said rules allow a Limiting Gas Oil Ratio of 5000 to 1, but retain all other Division rules for oil wells

(7) OXY intends to utilize a production and a test separator at the Cedar Canyon 23-3H satellite facility (the "facility"), located at the well pad of the Cedar Canyon 23 Federal Well No 3H in Unit 1 of Section 22, and use periodic well tests to allocate oil and gas production back to diversely owned wells feeding into that facility

(8) Gas from that facility will be metered from both separators and combined into the low pressure gas gathering system and transported approximately two miles north to the Enterprise Sales Meter

(9) Oil from that facility will be measured using a test turbine meter and a production turbine meter, then combined and transported southwest to the Cedar Canyon 22 Satellite located in Unit L of Section 22 where it will be tanked, metered through a Coriolis meter and sold at the nearby central tank battery, also within Unit L

(10) OXY provided the following testimony at the hearing from a Landman and two engineers

- (a) OXY proposed this diversely owned commingle using well tests for allocation in an earlier administrative application. The Division asked that it be presented before an examiner where the well test method for horizontal Bone Spring wells which have been hydraulically fractured and are exhibiting hyperbolic oil production decline behavior could be presented in more detail.
- (b) The SW/4 SW/4 of Section 23 is privately owned and leased at higher than 1/8<sup>th</sup> royalty rate. All other lands being proposed for commingling are federally owned and leased at 1/8<sup>th</sup> royalty. Four Federal oil and gas leases (NMNM013996, NMNM088138, NMNM081586, and NMNM093477) cover the federal lands being proposed for commingling.
- (c) The horizontal well project areas being proposed for commingling are diversely owned. There are numerous overriding royalty owners in the federal leases. The leases in Section 23 are 100 percent OXY working interest.
- (d) All owners, including the Bureau of Land Management ("BLM"), were noticed of the administrative application as well as the application(s) for hearing, and no one has voiced an objection.
- (e) The production from each well will be gathered into the Cedar Canyon 23-3H satellite facility, located on fee surface at the well pad of the Cedar Canyon 23 Federal Well No. 3H in Unit I of Section 22 where the oil and gas from each well will be tested and measured using periodic well tests.
- (f) The Cedar Canyon 22 Satellite is located in Unit L of Section 22 where oil production from all the wells will be tanked, metered through a Coriolis LACT and sold at the nearby central tank battery, also within Unit L.
- (g) There would be considerable additional costs to install the additional separators needed to provide constant metering from the diversely owned tracts, and those additional meters would also be turbine meters and not Coriolis meters.
- (h) Approval of this commingle as proposed would allow OXY to efficiently and effectively transport, store, and market production from the subject acreage.
- (i) OXY's proposed testing methodology is based on the American Petroleum Institute Manual of Petroleum Measurement Standards, Chapter 20 (API MPMS 20.1).

- (j) The decline life cycle of these Bone Spring horizontal wells would be partitioned into four stages beginning with the flow back after fracturing to peak production rate. For each of these stages, the wells would be tested at differing frequencies for optimum accuracy. For example, the early time stage would need more frequent testing of that well to accurately utilize well tests to allocate monthly production volumes among all wells being commingled prior to sales.
- (k) For this commingle application consisting of hyperbolically declining horizontally drilled Bone Spring wells, OXY is proposing Range 1 as the period from peak production to two months after peak production. Range 2 would be months 3 to 12. Range 3 would begin at month 12 and continue through the life of the well. Range 1 would require more frequent well testing, with an adequately sized test separator, than the frequency needed while the same well is within Range 3.
- (l) To adequately install production equipment for each well would require equipment designed for the peak production, which would be an over design for the period commencing only a few months after peak production from that well due to the rapid decline. The wells would in most cases begin production at staggered times, therefore, production equipment designed around the concept of well testing is most efficient and increases the likelihood of a proper design and utilization of the turbine and gas meters.
- (m) The initial production from these wells sometimes includes slug flow which requires larger vessels to have adequate retention time. Early flow also sometimes contains sand from the hydraulic fracture treatment which also creates problems with operation of equipment.
- (n) The time increment for sales through the custody transfer meters is monthly.
- (o) Most of the newer oil custody transfer sites (or LACT) include a Coriolis meter which is fed by a pump, while the older LACTs had displacement meters. The Coriolis meter has been accepted as a sales measurement by the BLM in Onshore Order No. 4 and is regarded as more accurate than the displacement meters. The turbine meters handle gas better than the Coriolis meters and are less expensive, so they are used upstream of the actual sales point.
- (p) OXY generated "type curves" for production from the various Bone Spring sands using available production "Rate vs Time" data and volumetric estimates of recoverable oil. The generated Rate vs

Time plots were supplied to the facilities engineer for properly designing production equipment. The engineers identified the separate segments of the decline behavior for purposes of frequency of well testing.

- (q) These wells may produce over the top allowable for a short, three month period in their early life, then are expected to produce below top allowable for the remaining life of each well. After an initial period of hyperbolic decline, production stabilizes at a more predictable exponential decline rate.

The Division concludes as follows:

(11) The application was properly advertised to affected parties including to the BLM. No other parties entered appearances in this case or otherwise opposed this application.

(12) The proposed method of measurement and allocation of production between the subject wells is reasonable and sufficiently reliable to protect the correlative rights of owners of separate interests in the production from the wells.

(13) The requested exception to the metering requirements of 19 15.12 10 C (1) NMAC should be approved. The use of periodic well tests for diversely owned wells prior to commingling for oil and gas production and sales should be approved to ensure efficient use of surface facilities and to protect correlative rights. The operator should use more frequent well tests, as proposed in this application, during the earlier stages of each well to ensure accuracy of allocation.

(14) Measurement and allocation methods for commingling of diversely owned production is governed by Division Rule 19 15 12 10 C (1) NMAC. These methods include continuous metering or "other methods the division has specifically approved prior to commingling." There is a need to allow the commonly used "well test method" as proposed in this case, as an "other method."

(15) Henceforth the Division, upon receiving administrative requests for diversely owned commingling of oil wells, should have the option of considering approval of the Well Testing Method. Any such proposed application should include "type curves" showing expected oil production versus time behavior, the expected completion schedule of all wells to be serviced by the test separator, the maximum number of wells to be serviced at any time by each test separator, the maximum expected daily production from any well, the size and type of the test separator and specifics of the test meters. The application should propose a well testing frequency which is acceptable based on these parameters, which varies based on the stages of oil production decline, and which follows guidance provided in the American Petroleum Institute Manual of Petroleum Measurement Standards, Chapter 20 (API MPMS 20 1). These requirements should be in the application advertised to all affected parties and the administrative application must be unopposed.

(16) OXY's proposed commingling of oil and gas production from the Pierce Crossing, Bone Spring, East Pool (96473) within the lands described above for all existing and future wells should be approved to protect correlative rights and prevent waste

(17) Off-lease storage, measurement, and sales should be approved for all leases not located on measurement or sales points

(18) This application should be approved

**IT IS THEREFORE ORDERED THAT:**

(1) The applicant, OXY USA, Inc ("OXY"), is hereby authorized to surface commingle oil and gas production from all current and future wells producing from the Pierce Crossing, Bone Spring, East Pool (96473) underlying the following acreage

Township 24 South, Range 29 East, NMPM, Eddy County, New Mexico

Section 22	S/2 N/2 and N/2 S/2
Section 23	All
Section 24	W/2

(2) The production facilities for well testing and measurement shall be the Cedar Canyon 23-3H satellite facility, located at the well pad of the Cedar Canyon 23 Federal Well No 3H in Unit I of Section 22, and the Cedar Canyon 22 Satellite located in Unit L. The sales point for oil is located within Unit L. The sales point for gas is located off-lease approximately two miles north of this commingle. Off-lease storage, measurement, and sales is approved for all leases not located on these measurement or sales locations

(3) The requested exception to the metering requirements of Rule 19.15 12 10 C (1) NMAC is hereby approved. The use of periodic well tests for diversely owned wells prior to commingling for oil and gas production and sales is approved. The operator shall use more frequent well tests, as proposed in this application, during the earlier stages of each well's oil production to ensure accuracy of allocation

(4) Henceforth the Division, upon receiving administrative requests for commingling of oil and associated gas from diversely owned leases, shall have the option of considering approval of the Well Testing Method if the operator supplies evidence in the application acceptable to the Division of proper test facility design, proposes a well testing frequency which is acceptable, which varies based on the stages of oil production decline, and which follows guidance provided in the American Petroleum Institute Manual of Petroleum Measurement Standards, Chapter 20 (API MPMS 20 1)

(5) Expansion of this permitted area as specified in ordering Paragraph (1) or the addition of any pool other than the pool specified in ordering Paragraph (1) shall entail an amended permit application. Amendments shall be permitted administratively, after proper notice, unless deemed necessary for Division hearing by the Division Director

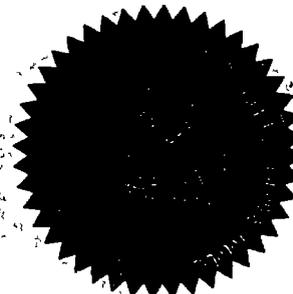
(6) Jurisdiction is hereby retained for the entry of such further orders as the Division may deem necessary

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

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION



DAVID R. CATANACH  
Director



SEAL