

DATE IN 2.29.12	SUSPENSE	ENGINEER RE	LOGGED IN 2.29.12	TYPE OLM	APP NO. 1206027998
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ABOVE THIS LINE FOR DIVISION USE ONLY

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



PTGW
Devon 8137

Cotton Draw Unit

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

Application Acronyms:

- [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]**
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

70 wells

- [1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]
- [A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ SD
- Check One Only for [B] or [C]
- [B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☒ OLM
- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR
- [D] Other: Specify _____
- [2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or ☐ Does Not Apply
- [A] ☐ Working, Royalty or Overriding Royalty Interest Owners
- [B] ☐ Offset Operators, Leaseholders or Surface Owner
- [C] ☐ Application is One Which Requires Published Legal Notice
- [D] ☒ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] ☐ Waivers are Attached
- [3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

Eddg / Fed

[4] **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.

Melanie Crawford
 Print or Type Name

Melanie Crawford
 Signature

Regulatory Analyst
 Title

10-26-11
 Date

Melanie.Crawford@dmv.com
 E-mail Address

OLM - 60



Devon Energy Production Company
20 North Broadway - CT 3.058
Oklahoma City, Oklahoma 73102-8260
Phone: (405)-552-4524
Fax (405)-552-8113
Melanie.Crawford@dev.com

October 26, 2011

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

RECEIVED OOD
2012 FEB 28 P 3:00

Re: Off Lease Gas Measurement, Sales, & Storage
Cotton Draw Unit 114H, Cotton Draw Unit 118H, Cotton Draw Unit 119H, Cotton Draw Unit 120H,
Cotton Draw Unit 121H, Cotton Draw Unit 156H. Cotton Draw Unit 155H, Cotton Draw Unit 151H.
Cotton Draw Unit 152H. & Cotton Draw Unit 150H
API: 30-015-37410, 30-015-37362, 30-015-37447, 30-015-37404, 30-015-37409, 30-015-38557, 30-015-
38607. 30-015-38609, 30-015-38610, & 30-015-38536
Sec 34-T24S, R31E, 26-T24S-R31E, 35-T24S-R31E
Lease NMNM70928G
Poker Lake; Delaware South Pool Code: 50386
Eddy & Lea County, New Mexico

Dear Mr. Ezeanyim:

Please find attached the OCD Form C-103 and BLM Form 3160-5 Sundry Notice of Intent to Lease Commingle the aforementioned wells. The working interest, royalty interest and overriding royalty interest owners in are uniformed; no additional notification is required.

BLM sundry approval and BLM conditions of approval attached.

Should you require any additional information or assistance, please do not hesitate to contact me at (405)-552-4524.

Very truly yours,

DEVON ENERGY PRODUCTION COMPANY, L.P.


Melanie Crawford
Regulatory Analyst

Enclosures

BLM-CARLSBAD FIELD OFFICE

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: March 31, 2007

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

5. Lease Serial No. See Below **NMD57489**
6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2.

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
Devon Energy Production Co., LP

3a. Address
20 North Broadway
OKC, OK 73102

3b. Phone No. (include area code)
(405)- 552-4524

7. If Unit of CA/Agreement, Name and/or No.
NM709286G Cotton Draw Unit

8. Well Name and No.
See Below

9. API Well No.
See Below

10. Field and Pool or Exploratory Area
50386 Poker Lake; Delaware South

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
See Below

11. Country or Parish, State
Eddy County, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other Off Lease Gas
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Measurement, Sales, &
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	Storage

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must 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 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Devon Energy Production Co., LP respectfully requests for Off Lease Gas Measurement, Sales, & Storage for the following wells:

Cotton Draw Unit 114H 30-015-37410	Sec 34, T24S, R31E	37489	Cotton Draw Unit 118H 30-015-37362	Sec 26, T24S, R31E
Cotton Draw Unit 156H 30-015-38557	Sec 35, T24S, R31E		Cotton Draw Unit 119H 30-015-37447	Sec 26, T24S, R31E
Cotton Draw Unit 151H 30-015-38610	Sec 34, T24S, R31E		Cotton Draw Unit 120H 30-015-37404	Sec 26, T24S, R31E
Cotton Draw Unit 152H 30-015-38609	Sec 35, T24S, R31E		Cotton Draw Unit 121H 30-015-37409	Sec 26, T24S, R31E
Cotton Draw Unit 155H 30-015-38607	Sec 35, T24S, R31E			
Cotton Draw Unit 150H 30-015-38536	Sec 34, T24S, R31E			

Cotton Draw Unit 114H, 150H, 151H, 152H, 155H, & 156H will have a central tank battery located on the 114H location. The Cotton Draw Unit 118H, 119H, 120H, & 121H will have a central tank battery located on the 118H location. The gas production from all well will flow to DCP CDP Gas Sales Meter 725072 located outside of Unit NMNM70928 in S/2 of Sec 17, T24S, R31E. The oil, gas, and water volumes from each well producing to this battery will be determined by using a test separator/heater treater at the proposed facility so that one well is always producing through the testing equipment. Production will be allocated on a daily basis based on the most recent individual well test of oil, gas, and water. Well tests for each well will be conducted at least once per month for a minimum of 24 hours.

The working interest, royalty interest and overriding royalty interest owners in the lease are unformed; no additional notification is required

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

14. I hereby certify that the foregoing is true and correct.

Name (Printed/Typed)
Melanie Crawford

Title Regulatory Analyst

Signature

Melanie Crawford

Date

10/26/11

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

J. D. H. Haddock Jr.

Title

LPET

Date

11/12/11

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

CFO

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

APPLICATION FOR CTB, OFF-LEASE GAS MEASUREMENT AND SALES APPROVAL

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

CTB, Off-Lease Gas Measurement & Sales proposal for Cotton Draw Unit:

Devon Energy Production Company, LP is requesting approval for CTB, Off-Lease Gas Measurement & Sales for the following wells:

Lease Unit Number: NMNM70928G

Well Name	Location	API #	Pool 50386	MCFPD	BTU
Cotton Draw Unit 114H	34-T24S-R31E	30-015-37410	Poker Lake, Delaware S	70.25	1455
Cotton Draw Unit 118H	26-T24S-R31E	30-015-37362	Poker Lake, Delaware S	156.65	1263
Cotton Draw Unit 119H	26-T24S-R31E	30-015-37447	Poker Lake, Delaware S	112.82	1256
Cotton Draw Unit 120H	26-T24S-R31E	30-015-37404	Poker Lake, Delaware S	325.46	1252
Cotton Draw Unit 121H	26-T24S-R31E	30-015-37409	Poker Lake, Delaware S	516.19	1252
Cotton Draw Unit 156H	35-T24S-R31E	30-015-38557	Poker Lake, Delaware S	287.67	1350
Cotton Draw Unit 155H	35-T24S-R31E	30-015-38607	Poker Lake, Delaware S	266.57	1327
Cotton Draw Unit 151H	35-T24S-R31E	30-015-38610	Poker Lake, Delaware S	285.75	1336
Cotton Draw Unit 152H	35-T24S-R31E	30-015-38609	Poker Lake, Delaware S	186.99	1364
Cotton Draw Unit 150H	34-T24S-R31E	30-015-38536	Poker Lake, Delaware S	217.67	1361

A map is enclosed showing the Federal leases and well locations in Section 26, 34, & 35-T24S-R31E. The working interest, royalty interest and overriding royalty interest owners in the lease are uniformed; no additional notification is required.

Oil & Gas metering:

Cotton Draw Unit 114H, 150H, 151H, 152H, 155H, & 156H will have a central tank battery located on the 114H location. The Cotton Draw Unit 118H, 119H, 120H, & 121H will have a central tank battery located on the 118H location. The gas hydrocarbon production from the Cotton Draw Unit wells will be the only hydrocarbon being commingled, measured and sold off-lease. A common DCP Gas Sales Meter # 725072 is located outside of Unit NMNM70928G in S/2 of Sec 17, T24S, R31.

The oil, gas, and water volumes from each well producing to this battery will be determined by using a test separator/heater treater at the proposed facility so that one well is always producing through the testing equipment. Production will be allocated on a daily basis based on the most recent individual well test of oil, gas, and water. Well tests for each well will be conducted at least once per month.

The BLM's interest in all wells is the same. Waste is not induced and no correlative rights are impaired. 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.

Process and Flow Descriptions:

Please see attached diagrams for the proposed Central Tank Batteries. The flow of produced fluids is shown in detail, along with a description of each vessel.

The off lease measurement of production is in the interest of conservation and waste and will result in the most effective, economic means of producing the reserves in place from the affected wells and will not result in reduced royalty or improper measurement of production. The proposed commingling will reduce operating expenses as well as reduce the surface facility footprint and overall emissions.

✓ 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. Additionally, Devon Energy Production Co., LP will submit within 30 days, an application for right-of-way approval to the BLM and NMOCD section in your office, if we have not already done so.

Signed:

Melanie Crawford

Printed Name: Melanie Crawford

Title: Regulatory Analyst

Date:

10-26-11



Sam McCurdy
Landman

Devon Energy Corporation
20 North Broadway
Oklahoma City, Oklahoma 73102-8260
Office: (405) 228-2406
Fax: (405) 552-8113

August 2, 2011

New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

Re: Off Lease Measurement and Sales
Cotton Draw Unit
Eddy and Lea Counties, NM

Gentlemen:

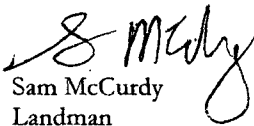
Devon Energy Production Company, L.P. ("Devon") recently received approval for the Delaware B Participating Area within the Cotton Draw Unit Area ("P.A.") with an effective date of April 1, 2010. All wells drilled within the P.A. after the effective date will have uniform working interest, royalty interest and overriding royalty interest with respect to Devon's request for Off Lease Measurement and Sales. The following wells located within the P.A. shall have identical ownership:

Cotton Draw Unit 114H	API: 30-015-37410	34-T24S-R31E
Cotton Draw Unit 118H	API: 30-015-37362	26-T24S-R31E
Cotton Draw Unit 119H	API: 30-015-37447	26-T24S-R31E
Cotton Draw Unit 120H	API: 30-015-37404	26-T24S-R31E
Cotton Draw Unit 121H	API: 30-015-37409	26-T24S-R31E
Cotton Draw Unit 156H	API: 30-015-38557	35-T24S-R31E
Cotton Draw Unit 155H	API: 30-015-38607	35-T24S-R31E
Cotton Draw Unit 152H	API: 30-015-38609	35-T24S-R31E
Cotton Draw Unit 151H	API: 30-015-38610	35-T24S-R31E
Cotton Draw Unit 150H	API: 30-015-38536	34-T24S-R31E

If you have any questions or if additional information is required please feel free to give me a call at (405) 228-2406.

Yours very truly,

DEVON ENERGY PRODUCTION COMPANY, L.P.


Sam McCurdy
Landman

22

23

24

19

Cotton Draw Unit boundary

Delaware B Participating Area
NMNM - 70928G

Poker Lake Unit

24S 31E

24S 32E

CDU #121H

CDU #120H

CDU #118H

CDU #119H

27

26

30

NMNM- 012121

CDU #110H

CDU #114H

CDU #150H

CDU #151H

CDU #152H

CDU #155H

CDU #156H

E-9127

NMNM - 037489

NMNM - 036379

36

36

31

NMNM- 042625

Cotton Draw

K-4562

2

1

6

NMNM- 046525

NMNM- 046525

25S 31E

25S 32E

10

11

12

7

15

14

13

18



Devon GIS Mapping



Disclaimer: This plat is for illustrative purposes only and is neither a legally recorded map nor a survey and is not intended to be used as one.

Scale: 1:36,112

Date Printed: 10/26/2011 12:33:52 PM

25S 31E

Cotton Draw Unit #114
 Section 34,T24S,R31E
 330FNL&1980FEL
 Eddy County, N.M
 API# 30-015-37410

Production System: Open

1) Oil sales by tank gauge to tank truck.

2) Seal requirements:

A. Production Phase: On all Tanks.

(1) All valves 5 sealed closed.

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 inaccessible.

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: Equalizer 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

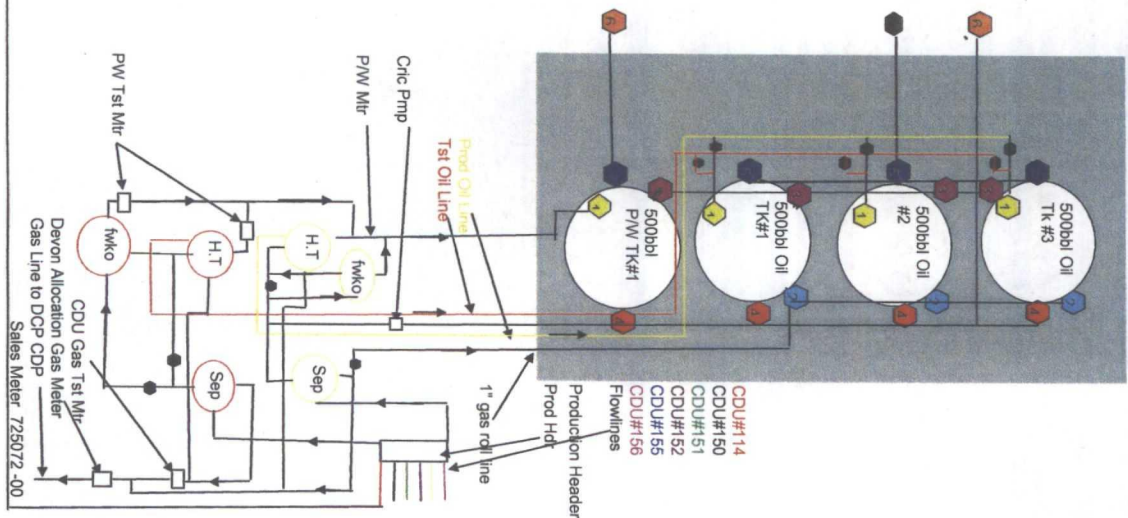
(A) (M) (C)

Road Entry

North

Production System Open
 Oil Trucked
 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
 Section 34, T24S, R31E
 330FNL&1980FEL
 Eddy County, N.M
 32 10'48.38"
 103 45' 49.13"



Cotton Draw Unit #118 Battery
 Section 26, T24S, R31E
 330FNL&1980FEL
 Eddy County, N.M
 API# 30-015-37362

Production System: Open

- 1) Oil sales by tank gauge to tank truck.
- 2) Seal requirements:

A. Production Phase: On all Tanks.

- (1) All valves 5 sealed closed.

Sales Phase: On Tank being hauled.

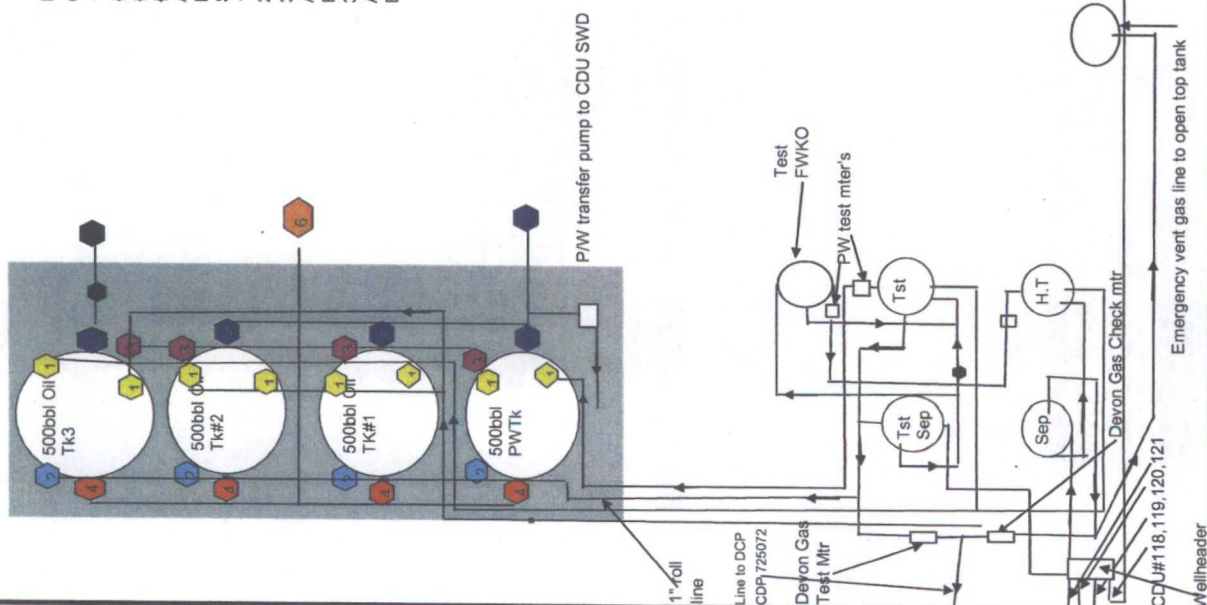
- (1) Valve 1 sealed closed. 1
- (2) Valve 3 sealed closed. 2
- (3) Valve 4 sealed closed. 3
- (4) Valve 5 sealed closed. 4

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

Ledger for Site Diagram

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

- Buried Lines: -----
- Firewall:
- Wellhead:
- Stak-pak:
- Production line: _____
- Water line: -----
- Gas Meter:



- Production System Open
 Oil Trucked
1. Production Phase OT#1
 - {1} valve #1 and 3 open
 - {2} valve 2, 4, & 5 sealed closed.
 - {3} Valve on tk #2, 3, positioned.
 - A. Valve 1, 2, 4, 5 sealed closed.
 - B. Valve 3 open.
- Sales Phase OT#1
1. Valves 1, 2, 3, sealed closed
 2. Valve #5 in open position
 3. OT#2 positioned
 - A. Valve 1, 3 open
 - B. Valve 2, 4 & 5 sealed close
 3. Valves on tank 3
 - A. Valves 2, 4, 5 sealed close
 - B. Valve 3 open.

Devon Energy
 Cotton Draw Unit #118
 Section 26, T24S, R31E
 330FNL&1980FEL
 Eddy County, N.M
 Lat-32 11' 40.69"
 Long-103 44' 47.67"



Drainage

Road Entry

OFF LEASE PRODUCTION - EDDY COUNTY						
Well Name	05/01/11 Sum Est Gas	06/01/11 Sum Est Gas	07/01/11 Sum Est Gas	08/01/11 Sum Est Gas	09/01/11 Sum Est Gas	10/01/11 Sum Est Gas
Cotton Draw Unit 114H	2,717.94	3,939.67	2,580.98	3,053.67	2,479.68	140.25
Cotton Draw Unit 118H	3,584.47	3,652.89	3,024.29	2,400.44	3,671.47	204.79
Cotton Draw Unit 119H	14,418.62	11,267.12	6,500.28	4,333.35	3,474.12	147.49
Cotton Draw Unit 120H	18,205.79	13,781.44	13,376.44	11,001.13	10,858.27	3,028.91
Cotton Draw Unit 121H	21,840.34	19,947.67	18,291.92	17,047.45	17,033.18	4,953.02
Cotton Draw Unit 156H	0.	4,796.02	12,771.59	15,749.36	14,436.67	3,238.59
Cotton Draw Unit 155H	0.	0.	0.	3,247.61	12,695.4	3,513.3
Cotton Draw Unit 151H	0.	0.	0.	0.	5,189.79	2,854.46
Cotton Draw Unit 152H	0.	0.	0.	0.	0.	918.87
Cotton Draw Unit 150H	0.	0.	0.	0.	278.41	1,889.87

Precision Gas Measurement, Inc.
Natural Gas Report

Sample Information

Sample Information	
Company Name	DEVON ENERGY
Lease Name	COTTON DRAW UNIT 114 ALLOC.
Location ID	390-33-114
Sample Date	8/10/2011
Operator	JWD
Method Name	BTUC6+.met
Injection Date	2011-08-12 12:41:34
Report Date	2011-08-12 12:46:23

Component Results

Component Name	Norm%	Gross HV (Dry) (BTU / Ideal cu.ft.)	Gross HV (Sat.) (BTU / Ideal cu.ft.)	Relative Gas Density (Dry)	GPM (Dry) (Gal. / 1000 cu.ft.)
NITROGEN	1.9964	0.0	0.0	0.01931	0.221
METHANE	62.0410	628.1	617.1	0.34365	10.570
CARBON DIOXIDE	0.6718	0.0	0.0	0.01021	0.115
ETHANE	18.4784	327.8	322.1	0.19184	4.966
PROPANE	10.7130	270.2	265.5	0.16311	2.966
I-BUTANE	1.2475	40.7	40.0	0.02503	0.410
N-BUTANE	2.8805	94.2	92.5	0.05781	0.913
I-PENTANE	0.6238	25.0	24.6	0.01554	0.229
N-PENTANE	0.6197	24.9	24.5	0.01544	0.226
C6+	0.7279	37.4	36.8	0.02342	0.317
Water	0.0000	0.0	0.0	0.00000	0.000
Total:	100.0000	1448.2	1423.0	0.86535	20.934

Results Summary

Result	Dry	Sat.
Total Normalized Mole%	100.0000	100.0000
Pressure Base (psia)	14.730	
Flowing Temperature (Deg. F)	113.0	
Flowing Pressure (psia)	158.0	
Water Mole%	-	1.7407
Gross Heating Value (BTU / Ideal cu.ft.)	1448.2	1423.0
Gross Heating Value (BTU / Real cu.ft.)	1455.8	1431.1
Relative Density (G), Real	0.8695	0.8656
Compressibility (Z) Factor	0.9948	0.9943
Total GPM	20.934	20.679
Wobbe Index	1561.2	1538.1

Precision Gas Measurement, Inc.
Natural Gas Report

Sample Information

Sample Information	
Company Name	DEVON ENERGY
Lease Name	COTTON DRAW UNIT 118 BATT. <i>Alloc</i>
Location ID	390-33-103
Sample Date	8/11/2011
Operator	JWD
Method Name	BTUC6+.met
Injection Date	2011-08-12 13:22:35
Report Date	2011-08-12 13:27:07

Component Results

Component Name	Norm%	Gross HV (Dry) (BTU / Ideal cu.ft.)	Gross HV (Sat.) (BTU / Ideal cu.ft.)	Relative Gas Density (Dry)	GPM (Dry) (Gal. / 1000 cu.ft.)
NITROGEN	3.4825	0.0	0.0	0.03368	0.384
METHANE	75.1378	760.6	747.4	0.41619	12.782
CARBON DIOXIDE	0.2073	0.0	0.0	0.00315	0.036
ETHANE	11.1640	198.0	194.6	0.11590	2.996
PROPANE	6.0931	153.7	151.0	0.09277	1.684
I-BUTANE	0.7093	23.1	22.7	0.01423	0.233
N-BUTANE	1.7011	55.6	54.7	0.03414	0.538
I-PENTANE	0.4105	16.5	16.2	0.01023	0.151
N-PENTANE	0.4288	17.2	16.9	0.01068	0.156
C6+	0.6656	34.2	33.6	0.02142	0.290
Water	0.0000	0.0	0.0	0.00000	0.000
Total:	100.0000	1259.0	1237.1	0.75239	19.250

Results Summary

Result	Dry	Sat.
Total Normalized Mole%	100.0000	100.0000
Pressure Base (psia)	14.730	
Flowing Temperature (Deg. F)	95.2	
Flowing Pressure (psia)	162.0	
Water Mole%	-	1.7407
Gross Heating Value (BTU / Ideal cu.ft.)	1259.0	1237.1
Gross Heating Value (BTU / Real cu.ft.)	1263.7	1242.2
Relative Density (G), Real	0.7549	0.7529
Compressibility (Z) Factor	0.9963	0.9959
Total GPM	19.250	19.023
Wobbe Index	1454.5	1431.6

Precision Gas Measurement, Inc.
Natural Gas Report

Sample Information

Sample Information	
Company Name	DEVON ENERGY
Lease Name	COTTON DRAW UNIT 119
Location ID	
Sample Date	8/11/2011
Operator	JWD
Method Name	BTUC6+.met
Injection Date	2011-08-12 12:55:42
Report Date	2011-08-12 13:00:25

Component Results

Component Name	Norm%	Gross HV (Dry) (BTU / Ideal cu.ft.)	Gross HV (Sat.) (BTU / Ideal cu.ft.)	Relative Gas Density (Dry)	GPM (Dry) (Gal. / 1000 cu.ft.)
NITROGEN	3.5173	0.0	0.0	0.03402	0.388
METHANE	75.2295	761.6	748.3	0.41670	12.797
CARBON DIOXIDE	0.2076	0.0	0.0	0.00315	0.036
ETHANE	11.3100	200.6	197.1	0.11742	3.035
PROPANE	5.9761	150.7	148.1	0.09099	1.652
I-BUTANE	0.7094	23.1	22.7	0.01424	0.233
N-BUTANE	1.6915	55.3	54.3	0.03395	0.535
I-PENTANE	0.3989	16.0	15.7	0.00994	0.146
N-PENTANE	0.4101	16.5	16.2	0.01022	0.149
C6+	0.5496	28.3	27.8	0.01768	0.239
Water	0.0000	0.0	0.0	0.00000	0.000
Total:	100.0000	1252.1	1230.3	0.74829	19.211

Results Summary

Result	Dry	Sat.
Total Normalized Mole%	100.0000	100.0000
Pressure Base (psia)	14.730	
Flowing Temperature (Deg. F)	93.0	
Flowing Pressure (psia)	164.0	
Water Mole%	-	1.7407
Gross Heating Value (BTU / Ideal cu.ft.)	1252.1	1230.3
Gross Heating Value (BTU / Real cu.ft.)	1256.7	1235.3
Relative Density (G), Real	0.7507	0.7488
Compressibility (Z) Factor	0.9963	0.9959
Total GPM	19.211	18.984
Wobbe Index	1450.4	1427.5

Precision Gas Measurement, Inc.
Natural Gas Report

Sample Information

Sample Information	
Company Name	DEVON ENERGY
Lease Name	COTTON DRAW UNIT 120
Location ID	
Sample Date	8/11/2011
Operator	JWD
Method Name	BTUC6+.met
Injection Date	2011-08-12 13:01:49
Report Date	2011-08-12 13:06:35

Component Results

Component Name	Norm%	Gross HV (Dry) (BTU / Ideal cu.ft.)	Gross HV (Sat.) (BTU / Ideal cu.ft.)	Relative Gas Density (Dry)	GPM (Dry) (Gal. / 1000 cu.ft.)
NITROGEN	3.4688	0.0	0.0	0.03355	0.383
METHANE	75.5982	765.3	752.0	0.41874	12.860
CARBON DIOXIDE	0.2038	0.0	0.0	0.00310	0.035
ETHANE	11.1633	198.0	194.6	0.11590	2.996
PROPANE	5.8813	148.3	145.7	0.08954	1.626
I-BUTANE	0.6917	22.5	22.2	0.01388	0.227
N-BUTANE	1.6485	53.9	53.0	0.03308	0.521
I-PENTANE	0.3906	15.7	15.4	0.00973	0.143
N-PENTANE	0.4026	16.2	15.9	0.01003	0.146
C6+	0.5512	28.3	27.8	0.01774	0.240
Water	0.0000	0.0	0.0	0.00000	0.000
Total:	100.0000	1248.3	1226.5	0.74528	19.177

Results Summary

Result	Dry	Sat.
Total Normalized Mole%	100.0000	100.0000
Pressure Base (psia)	14.730	
Flowing Temperature (Deg. F)	93.1	
Flowing Pressure (psia)	162.0	
Water Mole%		1.7407
Gross Heating Value (BTU / Ideal cu.ft.)	1248.3	1226.5
Gross Heating Value (BTU / Real cu.ft.)	1252.8	1231.5
Relative Density (G), Real	0.7477	0.7458
Compressibility (Z) Factor	0.9964	0.9960
Total GPM	19.177	18.951
Wobbe Index	1448.9	1426.0

Precision Gas Measurement, Inc.
Natural Gas Report

Sample Information

Sample Information	
Company Name	DEVON ENERGY
Lease Name	COTTON DRAW UNIT 121
Location ID	
Sample Date	8/11/2011
Operator	JWD
Method Name	BTUC6+.met
Injection Date	2011-08-12 13:08:23
Report Date	2011-08-12 13:13:07

Component Results

Component Name	Norm%	Gross HV (Dry) (BTU / Ideal cu.ft.)	Gross HV (Sat.) (BTU / Ideal cu.ft.)	Relative Gas Density (Dry)	GPM (Dry) (Gal. / 1000 cu.ft.)
NITROGEN	3.4862	0.0	0.0	0.03372	0.385
METHANE	75.6267	765.6	752.3	0.41890	12.864
CARBON DIOXIDE	0.2052	0.0	0.0	0.00312	0.035
ETHANE	11.1378	197.6	194.1	0.11563	2.989
PROPANE	5.8587	147.8	145.2	0.08920	1.620
I-BUTANE	0.6932	22.6	22.2	0.01391	0.228
N-BUTANE	1.6511	54.0	53.1	0.03313	0.522
I-PENTANE	0.3904	15.7	15.4	0.00973	0.143
N-PENTANE	0.4014	16.1	15.8	0.01000	0.146
C6+	0.5493	28.2	27.7	0.01767	0.239
Water	0.0000	0.0	0.0	0.00000	0.000
Total:	100.0000	1247.5	1225.8	0.74501	19.171

Results Summary

Result	Dry	Sat.
Total Normalized Mole%	100.0000	100.0000
Pressure Base (psia)	14.730	
Flowing Temperature (Deg. F)	93.2	
Flowing Pressure (psia)	161.0	
Water Mole%	-	1.7407
Gross Heating Value (BTU / Ideal cu.ft.)	1247.5	1225.8
Gross Heating Value (BTU / Real cu.ft.)	1252.0	1230.8
Relative Density (G), Real	0.7474	0.7456
Compressibility (Z) Factor	0.9964	0.9960
Total GPM	19.171	18.945
Wobbe Index	1448.3	1425.4

Precision Gas Measurement, Inc.
Natural Gas Report

Sample Information

Sample Information	
Company Name	DEVON ENERGY
Lease Name	COTTON DRAW UNIT 156
Location ID	
Sample Date	8/10/2011
Operator	JWD
Method Name	BTUC6+.met
Injection Date	2011-08-12 13:14:55
Report Date	2011-08-12 13:20:17

Component Results

Component Name	Norm%	Gross HV (Dry) (BTU / Ideal cu.ft.)	Gross HV (Sat.) (BTU / Ideal cu.ft.)	Relative Gas Density (Dry)	GPM (Dry) (Gal. / 1000 cu.ft.)
NITROGEN	2.1560	0.0	0.0	0.02085	0.238
METHANE	70.9957	718.7	706.2	0.39325	12.085
CARBON DIOXIDE	0.2185	0.0	0.0	0.00332	0.037
ETHANE	13.7843	244.5	240.2	0.14311	3.701
PROPANE	7.9547	200.6	197.1	0.12111	2.200
I-BUTANE	0.8840	28.8	28.3	0.01774	0.290
N-BUTANE	2.1930	71.7	70.5	0.04401	0.694
I-PENTANE	0.5597	22.4	22.1	0.01394	0.206
N-PENTANE	0.5707	22.9	22.5	0.01422	0.208
C6+	0.6834	35.1	34.5	0.02199	0.298
Water	0.0000	0.0	0.0	0.00000	0.000
Total:	100.0000	1344.9	1321.5	0.79353	19.958

Results Summary

Result	Dry	Sat.
Total Normalized Mole%	100.0000	100.0000
Pressure Base (psia)	14.730	
Flowing Temperature (Deg. F)	112.0	
Flowing Pressure (psia)	152.0	
Water Mole%	-	1.7407
Gross Heating Value (BTU / Ideal cu.ft.)	1344.9	1321.5
Gross Heating Value (BTU / Real cu.ft.)	1350.7	1327.7
Relative Density (G), Real	0.7966	0.7940
Compressibility (Z) Factor	0.9957	0.9953
Total GPM	19.958	19.719
Wobbe Index	1513.3	1490.1

Precision Gas Measurement, Inc.
Natural Gas Report

Sample Information

Sample Information	
Company Name	DEVON ENERGY
Lease Name	COTTON DRAW 155
Location ID	39049126
Sample Date	9/30/2011
Operator	JWD
Method Name	BTUC6+.met
Injection Date	2011-10-05 11:35:02
Report Date	2011-10-05 11:39:34

Component Results

Component Name	Norm%	Gross HV (Dry) (BTU / Ideal cu.ft.)	Gross HV (Sat.) (BTU / Ideal cu.ft.)	Relative Gas Density (Dry)	GPM (Dry) (Gal. / 1000 cu.ft.)
NITROGEN	2.5362	0.0	0.0	0.02453	0.280
METHANE	70.6679	715.4	702.9	0.39143	12.027
CARBON DIOXIDE	0.2134	0.0	0.0	0.00324	0.037
ETHANE	14.5000	257.2	252.7	0.15054	3.893
PROPANE	8.0992	204.3	200.7	0.12331	2.240
I-BUTANE	0.8318	27.1	26.6	0.01669	0.273
N-BUTANE	1.8949	62.0	60.9	0.03803	0.600
I-PENTANE	0.3929	15.8	15.5	0.00979	0.144
N-PENTANE	0.3850	15.5	15.2	0.00959	0.140
C6+	0.4787	24.6	24.2	0.01540	0.209
Water	0.0000	0.0	0.0	0.00000	0.000
Total:	100.0000	1321.8	1298.8	0.78255	19.842

Results Summary

Result	Dry	Sat.
Total Normalized Mole%	100.0000	100.0000
Pressure Base (psia)	14.730	
Flowing Temperature (Deg. F)	88.0	
Flowing Pressure (psia)	178.0	
Water Mole%		1.7407
Gross Heating Value (BTU / Ideal cu.ft.)	1321.8	1298.8
Gross Heating Value (BTU / Real cu.ft.)	1327.2	1304.7
Relative Density (G), Real	0.7855	0.7830
Compressibility (Z) Factor	0.9959	0.9954
Total GPM	19.842	19.605
Wobbe Index	1497.6	1474.5

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Precision Gas Measurement, Inc. Natural Gas Report

Sample Information

Sample Information	
Company Name	DEVON ENERGY
Lease Name	COTTON DRAW 151
Location ID	39049126
Sample Date	9/30/2011
Operator	JWD
Method Name	BTUC6+.met
Injection Date	2011-10-05 11:28:47
Report Date	2011-10-05 11:33:25

Component Results

Component Name	Norm%	Gross HV (Dry) (BTU / Ideal cu.ft.)	Gross HV (Sat.) (BTU / Ideal cu.ft.)	Relative Gas Density (Dry)	GPM (Dry) (Gal. / 1000 cu.ft.)
NITROGEN	3.0660	0.0	0.0	0.02965	0.339
METHANE	69.8203	706.8	694.5	0.38673	11.884
CARBON DIOXIDE	0.4065	0.0	0.0	0.00618	0.070
ETHANE	13.9584	247.6	243.3	0.14492	3.748
PROPANE	8.1357	205.2	201.6	0.12387	2.250
I-BUTANE	0.8992	29.3	28.8	0.01805	0.295
N-BUTANE	2.0858	68.2	67.0	0.04186	0.660
I-PENTANE	0.4636	18.6	18.3	0.01155	0.170
N-PENTANE	0.4696	18.9	18.5	0.01170	0.171
C6+	0.6949	35.7	35.1	0.02236	0.303
Water	0.0000	0.0	0.0	0.00000	0.000
Total:	100.0000	1330.3	1307.1	0.79686	19.890

Results Summary

Result	Dry	Sat.
Total Normalized Mole%	100.0000	100.0000
Pressure Base (psia)	14.730	
Flowing Temperature (Deg. F)	90.0	
Flowing Pressure (psia)	180.0	
Water Mole%		1.7407
Gross Heating Value (BTU / Ideal cu.ft.)	1330.3	1307.1
Gross Heating Value (BTU / Real cu.ft.)	1336.0	1313.3
Relative Density (G), Real	0.7999	0.7972
Compressibility (Z) Factor	0.9957	0.9953
Total GPM	19.890	19.652
Wobbe Index	1493.7	1470.9

Precision Gas Measurement, Inc.
Natural Gas Report

Sample Information

Sample Information	
Company Name	DEVON ENERGY
Lease Name	COTTON DRAW UNIT 152
Location ID	39049126
Sample Date	10/14/2011
Operator	JWD
Method Name	BTUC6+.met
Injection Date	2011-10-23 10:29:00
Report Date	2011-10-23 10:43:16

Component Results

Component Name	Norm%	Gross HV (Dry) (BTU / Ideal cu.ft.)	Gross HV (Sat.) (BTU / Ideal cu.ft.)	Relative Gas Density (Dry)	GPM (Dry) (Gal. / 1000 cu.ft.)
NITROGEN	2.8516	0.0	0.0	0.02758	0.315
METHANE	66.9462	677.7	665.9	0.37082	11.400
CARBON DIOXIDE	1.0488	0.0	0.0	0.01594	0.180
ETHANE	13.9129	246.8	242.5	0.14444	3.738
PROPANE	8.8992	224.4	220.5	0.13549	2.463
I-BUTANE	1.1788	38.4	37.8	0.02366	0.387
N-BUTANE	2.8675	93.8	92.1	0.05754	0.908
I-PENTANE	0.7749	31.1	30.5	0.01930	0.285
N-PENTANE	0.7958	32.0	31.4	0.01982	0.290
C6+	0.7243	37.2	36.6	0.02330	0.316
Water	0.0000	0.0	0.0	0.00000	0.000
Total:	100.0000	1381.4	1357.4	0.83790	20.281

Results Summary

Result	Dry	Sat.
Total Normalized Mole%	100.0000	100.0000
Pressure Base (psia)	14.730	
Flowing Temperature (Deg. F)	99.0	
Flowing Pressure (psia)	175.0	
Water Mole%		1.7407
Gross Heating Value (BTU / Ideal cu.ft.)	1381.4	1357.4
Gross Heating Value (BTU / Real cu.ft.)	1388.0	1364.4
Relative Density (G), Real	0.8415	0.8381
Compressibility (Z) Factor	0.9953	0.9948
Total GPM	20.281	20.037
Wobbe Index	1513.0	1490.4

Precision Gas Measurement, Inc.

Natural Gas Report

Sample Information

Sample Information	
Company Name	DEVON ENERGY
Lease Name	COTTON DRAW UNIT 150
Location ID	39049126
Sample Date	10/14/2011
Operator	JWD
Method Name	BTUC6+.met
Injection Date	2011-10-23 10:25:16
Report Date	2011-10-23 10:46:03

Component Results

Component Name	Norm%	Gross HV (Dry) (BTU / Ideal cu.ft.)	Gross HV (Sat.) (BTU / Ideal cu.ft.)	Relative Gas Density (Dry)	GPM (Dry) (Gal. / 1000 cu.ft.)
NITROGEN	2.8515	0.0	0.0	0.02758	0.315
METHANE	67.0515	678.8	667.0	0.37140	11.418
CARBON DIOXIDE	1.0462	0.0	0.0	0.01590	0.179
ETHANE	13.8826	246.2	242.0	0.14413	3.729
PROPANE	8.9109	224.7	220.8	0.13567	2.466
I-BUTANE	1.1867	38.7	38.0	0.02381	0.390
N-BUTANE	2.8802	94.2	92.5	0.05780	0.912
I-PENTANE	0.7453	29.9	29.4	0.01857	0.274
N-PENTANE	0.7681	30.9	30.3	0.01913	0.280
C6+	0.6770	34.8	34.2	0.02178	0.295
Water	0.0000	0.0	0.0	0.00000	0.000
Total:	100.0000	1378.2	1354.2	0.83577	20.258

Results Summary

Result	Dry	Sat.
Total Normalized Mole%	100.0000	100.0000
Pressure Base (psia)	14.730	
Flowing Temperature (Deg. F)	97.0	
Flowing Pressure (psia)	174.0	
Water Mole%	-	1.7407
Gross Heating Value (BTU / Ideal cu.ft.)	1378.2	1354.2
Gross Heating Value (BTU / Real cu.ft.)	1384.7	1361.2
Relative Density (G), Real	0.8394	0.8360
Compressibility (Z) Factor	0.9953	0.9949
Total GPM	20.258	20.014
Wobbe Index	1511.4	1488.7

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

Off-Lease Measurement

**Conditions of Approval: Devon Energy Production Co.
Cotton Draw Unit Wells 114, 156H, 151H, 152H, 155H, 150H, 118H, 119H, 120H
& 121H**

Approval of off-lease measurement is subject to the following conditions of approval:

1. This agency shall be notified of any change in sales method or location of the Sales point.
2. This agency shall be notified of any spill or discharge as required by NTL-3A. No gas may be vented without proper measurement and prior approval. Any gas vented must be flared.
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 is subject to like approval by the New Mexico Oil Conservation Division.
5. Additional wells and/or leases require additional approvals.
6. 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.
7. Approval for off-lease measurement 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.
8. All above-ground structures not subject to safety requirements shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be color which simulates "standard Environmental Colors" – Shale Green, Munsell Soil Color No. 5Y 4/2.