

ABOVE THIS LINE FOR DIVISION USE ONLY

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



Devon Energy Production  
 Company LP  
 Crow Flat 20 Federal Com  
 #5 1,2

**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]**

**[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.**

**[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

6-7-12  
 Date

Melanie.Crawford@dmv.com  
 E-mail Address

OLM - 67

2012 AUG 16 PM 12:45  
 RECEIVED OGD



Devon Energy Production Company  
333 W. Sheridan Avenue  
Oklahoma City, Oklahoma 73102  
Phone: (405)-552-4524  
[Melanie.Crawford@dvn.com](mailto:Melanie.Crawford@dvn.com)

June 7, 2012

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

**Re: Off Lease Gas Measurement, Sales, & Storage  
Crow Flat 20 Federal Com 1 & Crow Flat 20 Federal Com 2  
API: 30-015-15-31413 & 30-015-31921  
Sec 20-T16S-R28E  
Lease CA NM-106845  
Pool Code: 75720 Crow Flats; Morrow (gas)  
Eddy County, New Mexico**

RECEIVED OCD  
2012 AUG 16 P 12:45

Dear Mr. Ezeanyim:

Please find attached the OCD Form C-103 and BLM Form 3160-5 Sundry Notice of Intent to Off Lease Gas Measurement, Sales & Storage the aforementioned wells. The working interest, royalty interest and overriding royalty interest owners in are unformed; 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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB NO. 1004-0135  
Expires: July 31, 2010**OPERATOR'S COPY****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.**9. Lease Serial No.  
NMNM54856 / NM103872

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**7. If Unit or CA/Agreement, Name and/or No.  
CANM106845

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.

CROW FLAT 20 FED COM 1 142

2. Name of Operator

DEVON ENERGY PRODUCTION CO, LP

Contact: MELANIE A CRAWFORD

E-Mail: MELANIE.CRAWFORD@DVN.COM

9. API Well No.

30-015-31413 / 30-015-31921

3a. Address

333 W. SHERIDAN AVENUE  
OKLAHOMA CITY, OK 73102

3b. Phone No. (include area code)

Ph: 405-552-4524

10. Field and Pool, or Exploratory

CROW FLATS; MORROW (GAS)

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

Sec 20 T16S R28E

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 Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<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
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Off-Lease Measurement
	<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 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 shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once 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.)

Devon Energy Production Co., LP respectfully requests to Off Lease Gas Measurement, Sales & Storage for the Crow Flat 20 Fed Com 1 & 2 wells. Each well has its own tank battery at location and is the only well utilizing the tank battery at this time. The Crow Flat 20 Federal Com 2 will flow 1st to a 3 Phase before flowing to an Allocation Meter 885-33-014 before flowing to the same DCP CDP Gas Sales Meter 711543-00 as the other Crow Flat well. The Crow Flat 20 Federal Com 1 will flow through a Separator before flowing to the DCP CDP Gas Sales Meter 711543-00 which is located in Section 30, T16S, R28E of Eddy County, NM. There are no other wells flowing to the DCP CDP Gas Sales Meter 711543-00. The volumes reported off the DCP CDP Sales Meter 711543-00 are combined from both wells. The sales volumes are reported on the Crow Flats 20 Federal Com 1 step. The subtraction method is used to allocate gas back to the Crow Flat 1 well

ROW will or has already been obtained.

**SEE ATTACHED FOR  
CONDITIONS OF APPROVAL**

14. Thereby certify that the foregoing is true and correct.

**Electronic Submission #140016 verified by the BLM Well Information System  
For DEVON ENERGY PRODUCTION CO, LP, sent to the Carlsbad  
Committed to AFMSS for processing by KURT SIMMONS on 06/14/2012 ()**

Name (Printed/Typed) MELANIE A CRAWFORD

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 06/07/2012

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By

Title

LPET

Date

8/4/12

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.

**\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\***

**Additional data for EC transaction #140016 that would not fit on the form**

**32. Additional remarks, continued**

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



Ken Gray  
Senior Advisor, Land

Devon Energy Corporation  
20 North Broadway  
Oklahoma City, Oklahoma 73102-8260  
Office: (405) 552-4633  
Fax: (405) 552-8113

April 18, 2012

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

Re: Off Lease Measurement and Sales  
Crow Flat 20 Federal Com 1 – API 30-015-31413  
Sec 20-16S-28E 75720 Crow Flats; Morrow (gas)  
Crow Flat 20 Federal Com 2 – API 30-015-31921  
Sec 20-16S-28E 75720 Crow Flats; Morrow (gas)

Gentlemen:

I have reviewed the files of Devon Energy Production Company, L.P. ("Devon") regarding Devon's request for Off Lease Measurement and Sales for the referenced wells and find that the ownership of the working interest, royalty and overriding royalty interest are uniform with respect to Devon's request for Off Lease Measurement and Sales.

If there are any questions or if additional information is required feel free to call me at (405) 552-4633.

Yours very truly,

DEVON ENERGY PRODUCTION COMPANY, L.P.

A handwritten signature in black ink, appearing to read "Ken Gray". The signature is written in a cursive, flowing style.

Ken Gray  
Senior Advisor, Land

7

8

9



18

17

16



NM-103872

25% WI  
20% NRI

Crow Flats 20 Fed Com #2



20

NM-54856

NM-103873

19

16S 28E

21



Crow Flats 20 Fed Com #1

C.A. NM-106845

RT Only

✓ 50% WI  
40% NRI

*All identical*

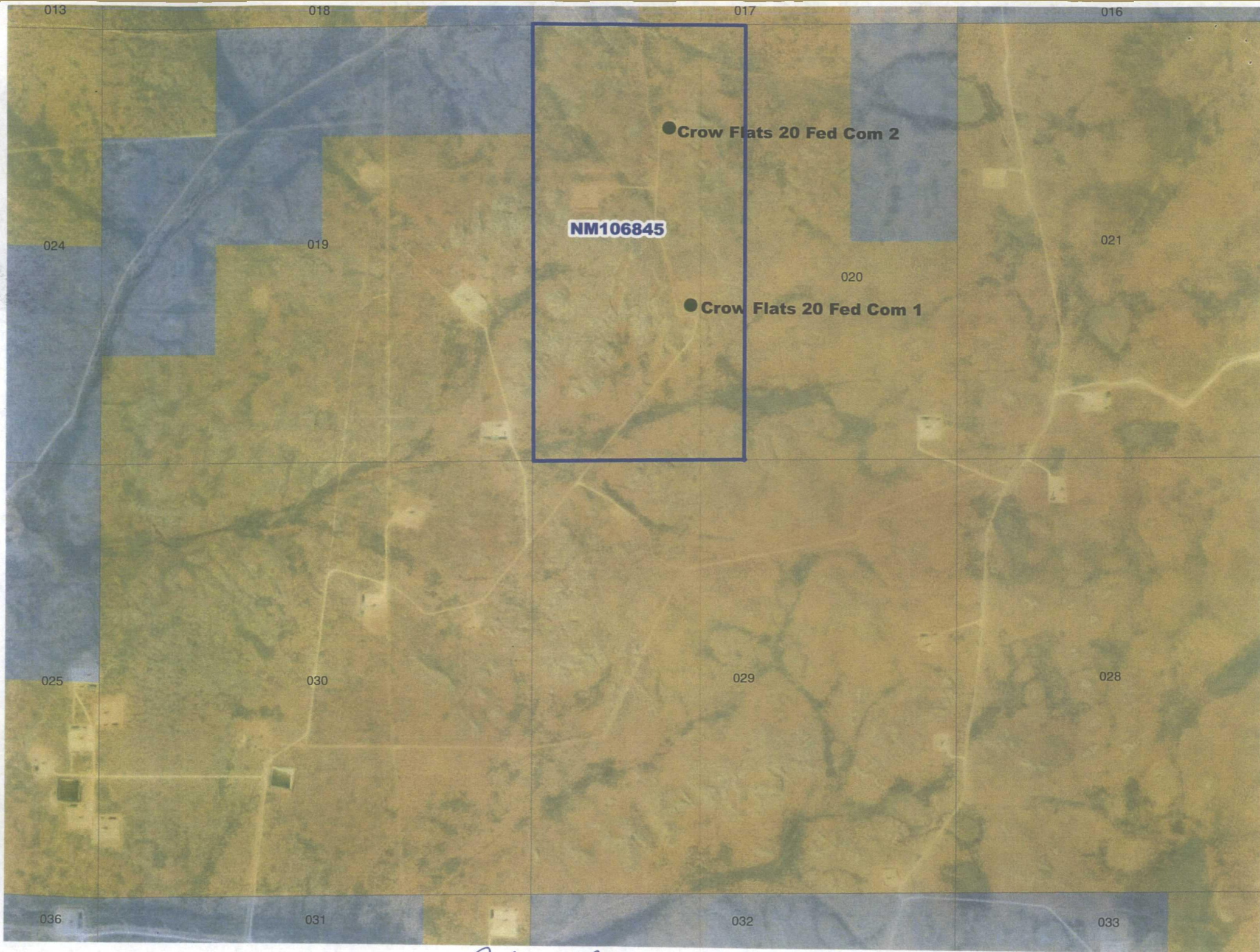
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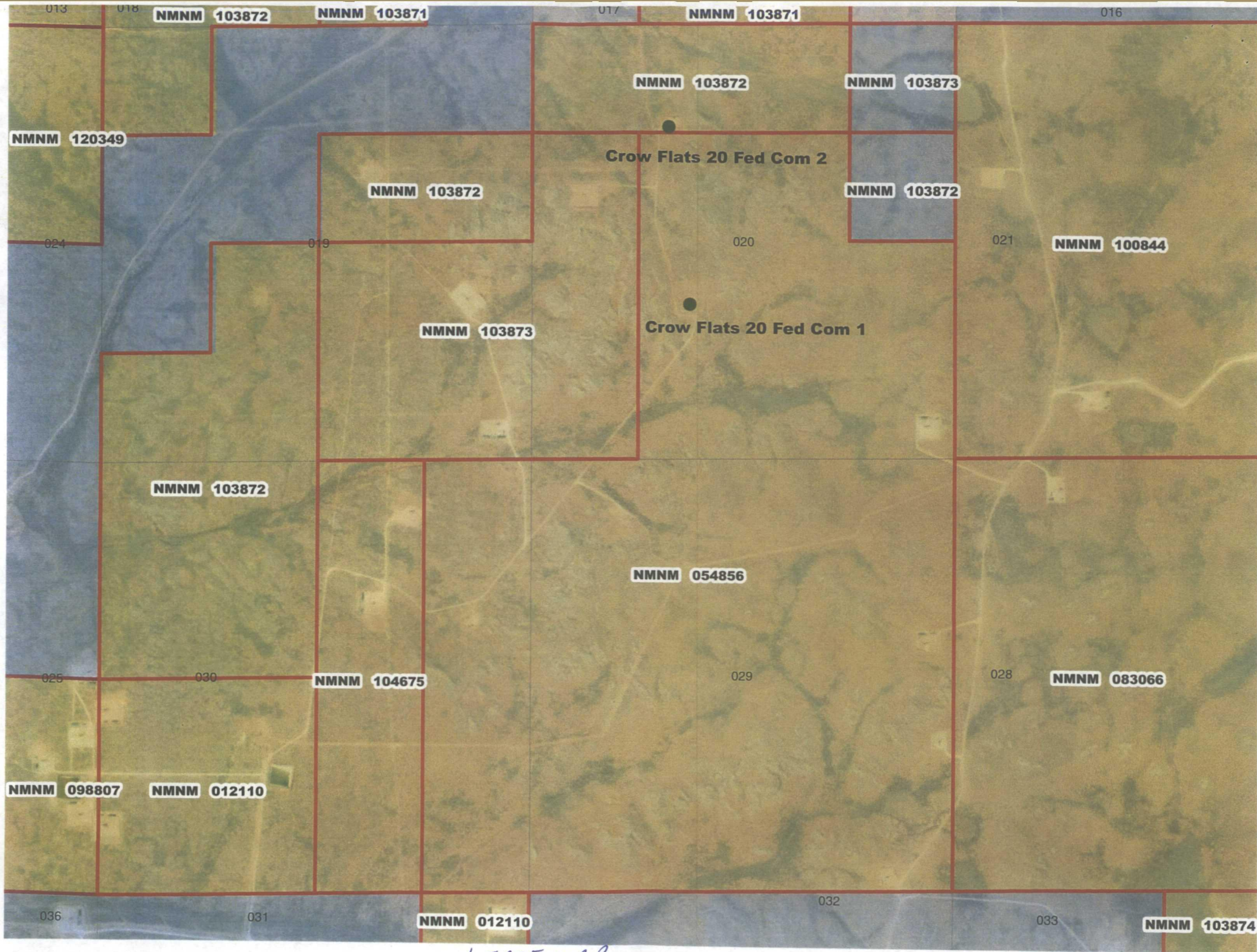
**NM106845**

● **Crow Flats 20 Fed Com 2**

● **Crow Flats 20 Fed Com 1**

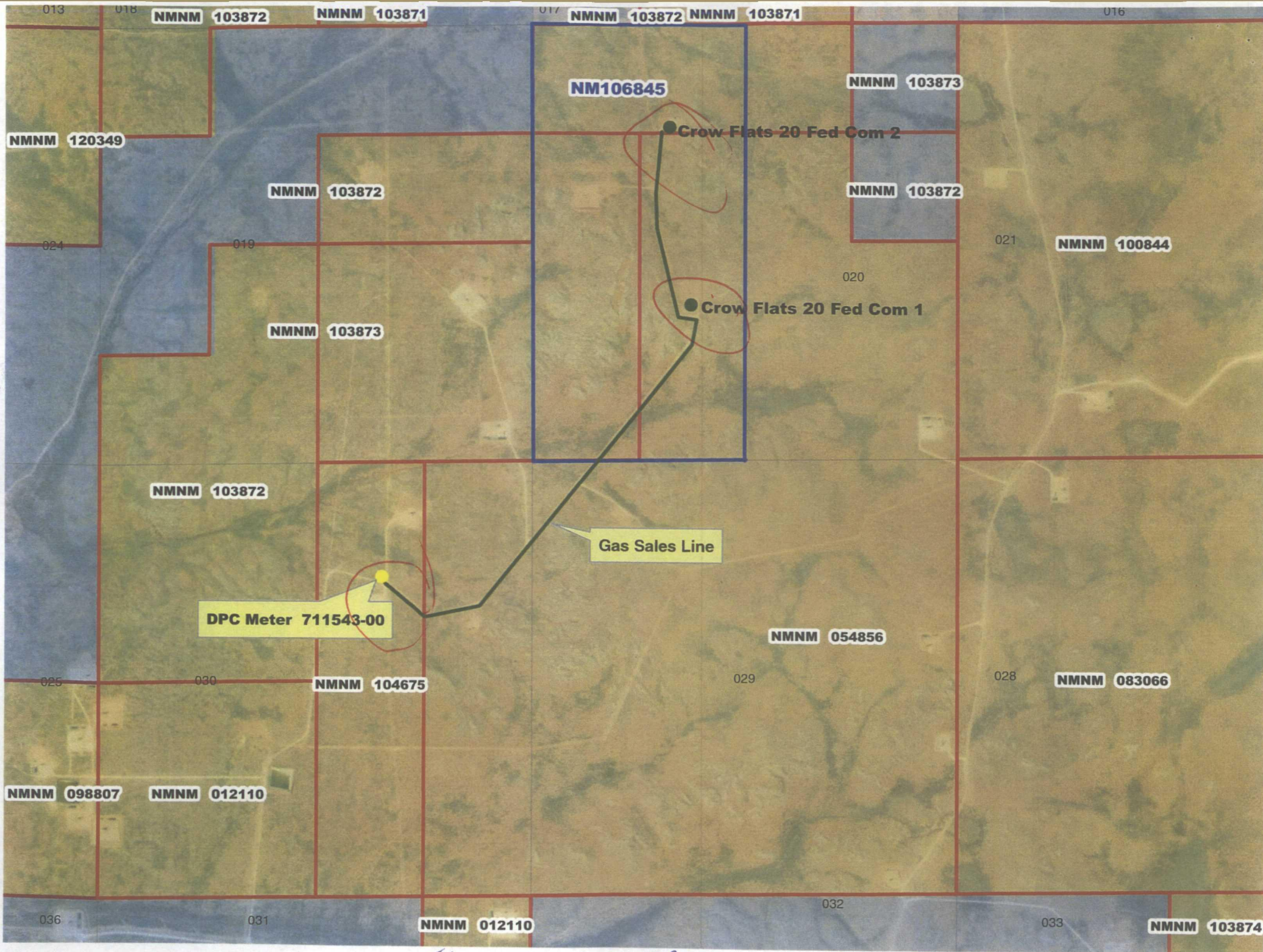
*C A 1110*





1 r n c r u a d





Flow Line Diagram



Crow Flat 20 Fed Com 2  
 Section 20, T16S ,R28E  
 1310 FNL & 1730 FWL  
 Eddy County  
 API# 30-015-31921





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 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: Equalizer Line 
- Valve #4: Circ./Drain Line 
- Valve #5: Sles Line 
- Valve #6: BS&W Load Line 

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

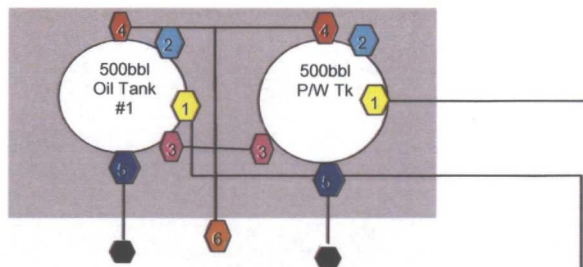
{2} Valve 2, 4, & 5 sealed closed.

Sales Phase OT #1

1. Valves 1, 2, 3, & 4 sealed closed

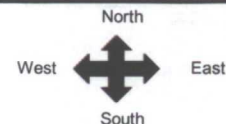
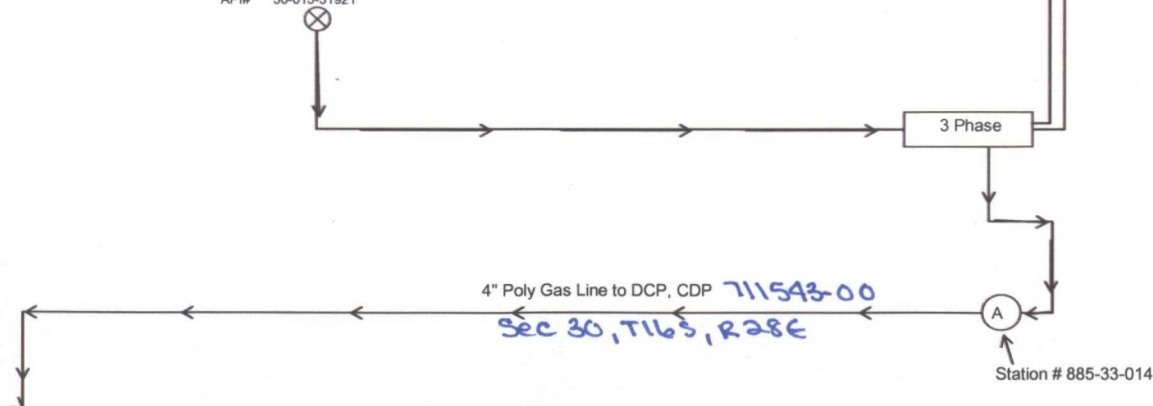
2. Valve #5 in open position














3. P/W tank valve #3 Closed

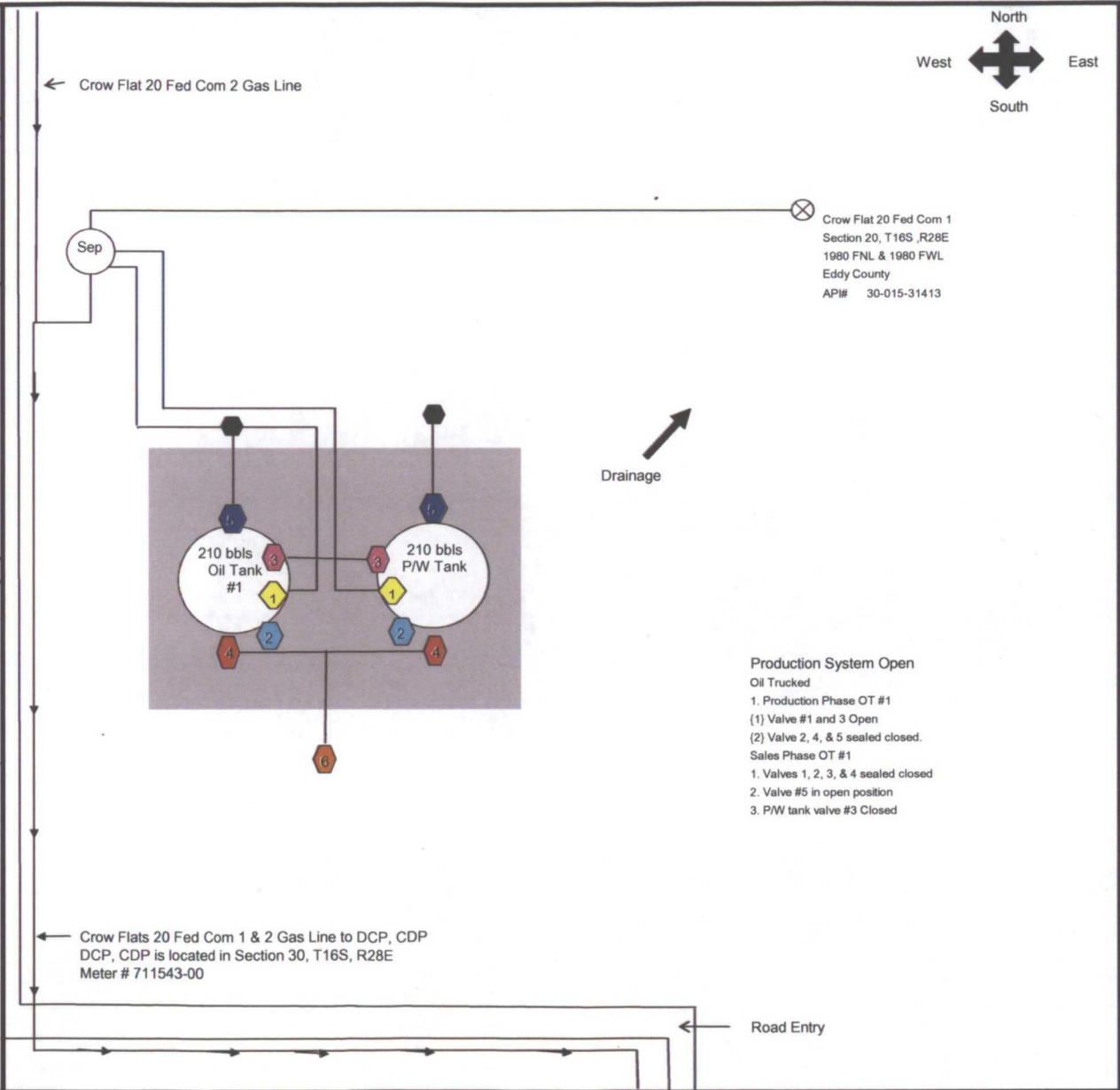


Drainage

Crow Flat 20 Fed Com 2  
 Section 20, T16S ,R28E  
 1310 FNL & 1730 FWL  
 Eddy County  
 API# 30-015-31921



Production System: <u>Open</u>	
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) <u>Misc. Valves</u> : Plugged or otherwise inaccessible.	
<u>NOTE</u> : Valve 2 is either a test or roll line if there is a valve 2 it will be sealed closed.	
	
<b>Ledger for Site Diagram</b>	
Valve #1: <u>Production Line</u>	
Valve #2: <u>Test or Roll line</u>	
Valve #3: <u>Equilizer Line</u>	
Valve #4: <u>Circ./Drain Line</u>	
Valve #5: <u>Sles Line</u>	
Valve #6: <u>BS&amp;W Load Line</u>	
Buried Lines: -----	
Firewall:	
Wellhead:	
Stak-pak:	<div style="border: 1px solid black; padding: 2px; display: inline-block;">Stak-pak</div>
Production line: -----	
Water line: -----	
Gas Meter	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center;">A</div> <div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center;">M</div> <div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center;">C</div> </div>





# Monthly Meter Analysis

March, 2012

Meter #: 711543-00

Name: CROW FLATS 20 Fed 1

Component	Mole %	GPMs	Mass %	Property	Total Sample	C6 Plus Fraction
Carbon Dioxide, CO2	0.2490		0.5642	Pressure Base	14.730	
Nitrogen, N2	1.0089		1.4551	Temperature Base	60.00	
Methane, C1	86.7907		71.6854	HCDP @ Sample Pressure		
Ethane, C2	6.4068	1.7181	9.9185	Cricondentherm		
Propane, C3	2.7105	0.7488	6.1536	HV, Dry @ Base P, T	1174.72	
iso-Butane, iC4	0.4909	0.1611	1.4690	HV, Sat @ Base P, T	1154.28	
n-Butane, nC4	0.9999	0.3161	2.9922	HV, Sat @ Sample P, T		
iso-Pentane, iC5	0.3494	0.1281	1.2979	Relative Density	0.6723	
n-Pentane, nC5	0.2811	0.1022	1.0442	Fws Factor		
Hexanes Plus, C6+	0.7128	0.3119	3.4199	Free Water GPM		
Water, H2O				Stock Tank Condensate Brls/mm		
Hydrogen Sulfide, H2S	0.0000		0.0000	26 # RVP Gasoline	0.836	
Oxygen, O2	0.0000		0.0000	Testcar Permian	0.486	
Carbon Monoxide, CO				Testcar Panhandle	0.587	
Hydrogen, H2				Testcar Midcon	0.546	
Helium, He	0.0000		0.0000	C4 and Lighter ST Cond		
Argon, Ar				C5 and Heavier ST Cond		
				C6/C7 GPM		
Totals	100.0000	3.4863	100.0000			

## Sample

Date: 12/22/2011 Pressure: 76.3  
Type: Spot Temperature: 52.0

# **Precision Gas Measurement, Inc.** **Natural Gas Report**

## **Sample Information**

Sample Information	
Company Name	DEVON ENERGY
Lease Name	CROW FLATS 20 FED 2
Location ID	
Sample Date	11/3/2011
Operator	JWD
Method Name	BTUC6+.met
Injection Date	2011-11-13 08:54:09
Report Date	2011-11-13 09:06:11

## **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	0.9792	0.0	0.0	0.00947	0.108
METHANE	87.9415	890.3	874.8	0.48711	14.948
CARBON DIOXIDE	0.3414	0.0	0.0	0.00519	0.058
ETHANE	5.8928	104.5	102.7	0.06118	1.580
PROPANE	2.4655	62.2	61.1	0.03754	0.681
I-BUTANE	0.4007	13.1	12.8	0.00804	0.131
N-BUTANE	0.7544	24.7	24.2	0.01514	0.238
I-PENTANE	0.2555	10.2	10.1	0.00636	0.094
N-PENTANE	0.2249	9.0	8.9	0.00560	0.082
C6+	0.7441	38.3	37.6	0.02394	0.324
Water	0.0000	0.0	0.0	0.00000	0.000
Total:	100.0000	1152.2	1132.2	0.65957	18.245

*PVM  
11-16-11*

## **Results Summary**

Result	Dry	Sat.
Total Normalized Mole%	100.0000	100.0000
Pressure Base (psia)	14.730	
Flowing Temperature (Deg. F)	68.0	
Flowing Pressure (psia)	84.0	
Water Mole%	-	1.7407
Gross Heating Value (BTU / Ideal cu.ft.)	1152.2	1132.2
Gross Heating Value (BTU / Real cu.ft.)	1155.6	1135.9
Relative Density (G), Real	0.6612	0.6608
Compressibility (Z) Factor	0.9971	0.9967
Total GPM	18.245	18.034
Wobbe Index	1421.1	1397.3

**OFF LEASE PRODUCTION - EDDY COUNTY**

	12/01/11	01/01/12	02/01/12	03/01/12	04/01/12	05/01/12
Well Name	Sum Est Gas	Sum Est Gas	Sum Est Gas	Sum Est Gas	Sum Est Gas	Sum Est Gas
Crow Flat 20 Federal Com 1	1,649.65	1,687.82	1,655.47	1,756.	1,481.	868.55
Crow Flat 20 Federal Com 2	5,252.38	5,207.39	4,669.04	5,020.02	3,890.	2,421.45



**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.  
Crow Flat 20 Federal Com #1 & 2  
CA - NM106845**

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.