

DATE IN 4/6/09	SUSPENSE	ENGINEER W. Jones	LOGGED IN 4/6/09	TYPE DHC	APP NO. PKAA0909649843
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ABOVE THIS LINE FOR DIVISION USE ONLY

RECEIVED

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

2009 APR 6 PM 1 04 1220 South St. Francis Drive, Santa Fe, NM 87505



30-015-34375  
Westside 4 State Com  
#1

Devon  
16137

## 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.

Stephanie A. Ysasaga  
Print or Type Name

Signature

Sr. Staff Engineering Technician  
Title

04/10/2009  
Date

Stephanie.Ysasaga@dvni.com  
e-mail Address



Devon Energy Production Company  
Western Division Operations Engineering  
20 North Broadway - CT 3.056  
Oklahoma City, Oklahoma 73102-8260  
Phone: (405)-552-7802  
Fax (405)-552-8112  
[Stephanie.Ysasaga@devon.com](mailto:Stephanie.Ysasaga@devon.com)

April 10th, 2009

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

**Re: Downhole Commingling  
Westside 4 State Com 1  
Unit Letter M, SWSW Sec 4-T22S-R26E  
API # 30-015-34375  
Happy Valley; Atoka (Gas) and Happy Valley; Morrow (Gas)  
Eddy County, New Mexico**

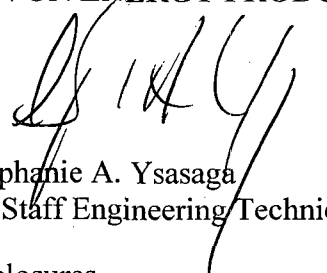
Dear Mr. Jones:

Please find attached the Form 3160-5 Sundry Notice of Intent to Downhole Commingle, OCD form C-107A, wellbore diagrams and production data and graphs for the proposed zones. The working interest, royalty interest and overriding royalty interest owners in both formations are uniform.

Should you require any additional information or assistance, please do not hesitate to contact me at (405)-552-7802.

Very truly yours,

**DEVON ENERGY PRODUCTION COMPANY, L.P.**

  
Stephanie A. Ysasaga  
Sr. Staff Engineering Technician ☺

Enclosures

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

District II  
1301 W. Grand Avenue, 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-107A  
Revised June 10, 2003

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

APPLICATION TYPE  
\_\_\_\_ Single Well  
\_\_\_\_ Establish Pre-Approved Pools  
EXISTING WELLBORE  
\_\_\_\_ Yes \_\_\_\_ No

APPLICATION FOR DOWNHOLE COMMINGLING

DEVON ENERGY PRODUCTION CO., LP 20 NORTH BROADWAY OKC, OK 73102-8260  
Operator Address

Westside 4 State Com 1 Unit M Sec 4-T22S- R26E Eddy  
Lease Well No. Unit Letter-Section-Township-Range County

OGRID No. 6137 Property Code API No. 30-015-34375 Lease Type: Federal X State Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Happy Valley; Atoka (Gas)		Happy Valley; Morrow (Gas)
Pool Code	78055		78060
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	10,384' - 10,388'		11,062' - 11,174'
Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)			
Oil Gravity or Gas BTU (Degree API or Gas BTU)	1066		1085
Producing, Shut-In or New Zone	Producing		Producing
Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data.)	Date: 03/28/09 Rates: 0 oil/39 mcf/0 wtr	Date: Rates:	Date: 01/07/09 Rates: 0 oil/46 mcf/0 wtr
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil Gas % 50%	Oil Gas % %	Oil Gas % 50%

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones? Yes X No  
If not, have all working, royalty and overriding royalty interest owners been notified by certified mail? Yes No

Are all produced fluids from all commingled zones compatible with each other? Yes X No

Will commingling decrease the value of production? Yes No X

If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands  
or the United States Bureau of Land Management been notified in writing of this application? Yes No X

NMOCD Reference Case No. applicable to this well:

Attachments:

- C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
- Production curve for each zone for at least one year. (If not available, attach explanation.)
- For zones with no production history, estimated production rates and supporting data.
- Data to support allocation method or formula.
- Notification list of working, royalty and overriding royalty interests for uncommon interest cases.
- Any additional statements, data or documents required to support commingling.

PRE-APPROVED POOLS

If application is to establish Pre-Approved Pools, the following additional information will be required:

- List of other orders approving downhole commingling within the proposed Pre-Approved Pools
- List of all operators within the proposed Pre-Approved Pools
- Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application.
- Bottomhole pressure data.

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

SIGNATURE TITLE Sr. Staff Engineering Technician DATE 04/10/2008

TYPE OR PRINT NAME Stephanie A. Ysasaga TELEPHONE NO. (405)-552-7802

E-MAIL ADDRESS Stephanie.Ysasaga@dvn.com

**APPLICATION FOR DOWHOLE COMMINGLING  
DEVON SUMMARY & INTENTIONS  
WESTSIDE 4 STATE COM 1  
API #: 30-015-34375**

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

The Westside 4 State Com 1 was spud 03/04/2006. Well is currently completed in the Morrow (07/01/2006) and Atoka (02/02/09) zones. Devon set a composite plug @ 11,030' on 01/09/2009 to isolate the Atoka from the Morrow; currently producing only the Atoka up the tubing. The Atoka is currently producing on the average 38 mcf/d with a CP of 650 psig and FTP of 550 psig; the Morrow producing on the average 47 mcf/d with a CP of 600 psig and FTP of 40 psig. The Morrow had been producing for several years, but has continued to decline in oil and gas production, thus requesting to downhole commingle both zones up the tubing.

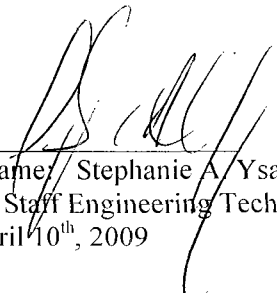
Current perforations are as follows:

- Happy Valley; Atoka (Gas): 10,384' - 10,388'
- Happy Valley; Morrow (Gas): 11,062' - 11,174'

Devon would like to project what we believe our allocation would be, versus fix an allocation based on past production. The gas allocation would be 50% to the Morrow and 50% to the Atoka. There is no oil and water production from both zones. We are anticipating this will be acceptable.

Attached for your full review:

- Administrative Application Checklist
- Form C-103: NOI – Downhole Commingle
- Form C-107A: Application for Downhole Commingling
- Gas BTU's: Atoka & Morrow Zones
- Letter verifying uniform interests in Atoka & Morrow zones
- C-102's: Atoka & Morrow
- Current Schematic Atoka & Morrow Zones Schematic
- Proposed Downhole Commingling Atoka & Morrow Zones Schematic
- Monthly Average Production Graphs
- Daily Production for Atoka & Morrow Zones
- Monthly Production for Atoka & Morrow Zones

Signed:   
Printed Name: Stephanie A. Ysasaga  
Title: Sr. Staff Engineering Technician  
Date: April 10<sup>th</sup>, 2009

Submit 3 Copies To Appropriate District Office  
District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Ave., 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 and Natural Resources

Form C-103  
May 27, 2004

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

WELL API NO. 30-015-34375
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Westside 4 State Com
8. Well Number 1
9. OGRID Number 6137
10. Pool name or Wildcat See below

**SUNDRY NOTICES AND REPORTS ON WELLS**  
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

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

2. Name of Operator  
Devon Energy Production Company, LP

3. Address of Operator  
20 North Broadway Oklahoma City, Oklahoma 73102-8260 (405) 552-7802

4. Well Location  
Unit Letter M : 1000 feet from the south line and 660 feet from the west line  
Section 4 Township 22S Range 26E NMPM Eddy County New Mexico

11. Elevation (Show whether DR, RKB, RT, GR, etc.)  
2962'

Pit or Below-grade Tank Application ☐ or Closure ☐

Pit type \_\_\_\_\_ Depth to Groundwater \_\_\_\_\_ Distance from nearest fresh water well \_\_\_\_\_ Distance from nearest surface water \_\_\_\_\_

Pit Liner Thickness: \_\_\_\_\_ mil Below-Grade Tank: Volume \_\_\_\_\_ bbls; Construction Material \_\_\_\_\_

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐  
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐  
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐

OTHER: Downhole Commingle Atoka & Morrow Zones ☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐  
COMMENCE DRILLING OPNS. ☐ P AND A ☐  
CASING/CEMENT JOB ☐

OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Devon Energy Production Company, L.P. is applying with the New Mexico Oil Conservation Division to downhole commingle the Happy Valley; Atoka (G): Pool code # 78055 (10,384' - 10,388') with the Happy Valley; Morrow (Gas): Pool code #78060 (11,062' - 11,174'). The commingling will not reduce the value of the total production. Ownership in the zones is uniform. The proposed allocations are as follows:

Happy Valley; Atoka (Gas): Pool code # 78055 Gas 50%  
Happy Valley; Morrow (Gas): Pool code #78060 Gas 50%

Current and proposed wellbore schematics are attached along with the allocation methods and supporting data.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOC guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE Stephanie A. Ysasaga TITLE Sr. Staff Engineering Technician DATE 04/10/2008

Type or print name Stephanie A. Ysasaga E-mail address: Stephanie.Ysasaga@dvn.com Telephone No. (405) 552-7802  
For State Use Only

APPROVED BY: \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
Conditions of Approval (if any): \_\_\_\_\_



Ken Gray  
Senior Advisor, Land

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

March 30, 2009

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

Re: Downhole Commingling  
Westside 4 State Com #1  
W/2 Section 4-T22S-R26E  
Eddy County, New Mexico

Gentlemen:

I have reviewed the files of Devon Energy Production Company, L.P. regarding the ownership of the referenced well and find that the ownership of the working interest, royalty and overriding royalty interest are uniform with respect to Devon's request to downhole commingle the following pools/intervals:

Happy Valley; Atoka (Gas) Pool Code: 78055  
Happy Valley; Morrow (Gas) Pool Code: 78060

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 dark ink, appearing to read "Ken Gray". The signature is fluid and cursive, written over the printed name and title.

Ken Gray  
Senior Advisor, Land

Well Name: WESTSIDE 4 STATE COM #1		Field: HAPPY VALLEY	
Location: 1000' FSL & 660' FWL; SEC 4-T22S-R26E		County: EDDY	State: NM
Elevation: 3290' KB		Spud Date: 3/15/06	Compl Date:
API#: 30-015-34375	Prepared by: Ronnie Slack	Date: 1/16/09	Rev:

# CURRENT WELL CONFIGURATION

26" Hole  
20", 94#, K55, BTC, @ 608'  
 Cmt'd w/1350 Sx to surf

12-1/4" Hole  
9-5/8", 36#, J55, ST&C, @ 2308'  
 Cmt'd w/2526 Sx to surf

DV Tool @ 4016'

4-1/2" Liner Top Packer @ 8079'

8-3/4" Hole  
7", 26#, P110HC, LT&C, @ 8393'  
 Cmt'd w/2170 Sx to surf

ATOKA (1/9/09)  
10384' - 10388'

1/13/09: acidized 10384-10388 w/100 gals 7.5% 1/14-frac  
 w/14K# 20/40, avg 10 bpm @ 7918#

MORROW (6/9/06)  
11062-11070'  
11074-11086  
11100-11102

11168-11174

6/13/06: acidized w/3000 gals 15% HCl  
 6/22/06: Fraced w/42.5K# 18/40 sand

6-1/8" Hole  
4-1/2", 13.5#, P110HC, LT&C, @ 11390'  
 Cmt'd w/300 Sx

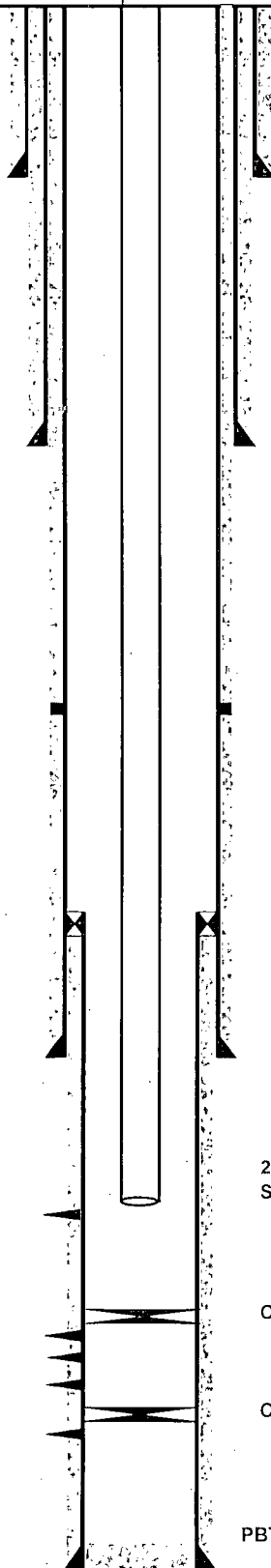
2-3/8" Tubing Landed @ 10379' (1/16/09)  
 SN & Notched Collar on bottom

Composite Plug @ 11030' (1/9/09)

CIBP @ 11150' (1/9/09)

PBTD @ 11300'

TD @ 11392



Well Name: WESTSIDE 4 STATE COM #1

Field: HAPPY VALLEY

Location: 1000' FSL & 660' FWL; SEC 4-T22S-R26E

County: EDDY

State: NM

Elevation: 3290' KB

Spud Date: 3/15/06

Compl Date:

API#: 30-015-34375

Prepared by: Ronnie Slack

Date: 1/16/09

Rev: 3/30/09

**PROPOSED DOWNHOLE  
COMMINGLING**

26" Hole

20", 94#, K55, BTC, @ 608'

Cmt'd w/1350 Sx to surf

**PULL COMPOSITE PLUG @ 11,030';  
PRODUCE MORROW & ATOKA ZONES  
UP TUBING**

12-1/4" Hole

9-5/8", 36#, J55, ST&C, @ 2308'

Cmt'd w/2526 Sx to surf

DV Tool @ 4016'

4-1/2" Liner Top Packer @ 8079'

8-3/4" Hole

7", 26#, P110HC, LT&C, @ 8393'

Cmt'd w/2170 Sx to surf

ATOKA (1/9/09)

10384' - 10388'

1/13/09: acidized 10384-10388 w/100 gals 7.5%, 1/14-frac  
w/14K# 20/40, avg 10 bpm @ 7918#

MORROW (6/9/06)

11062-11070'

11074-11086

11100-11102

11168-11174

6/13/06: acidized w/3000 gals 15% HCl

6/22/06: Fraced w/42.5K# 18/40 sand

6-1/8" Hole

4-1/2", 13.5#, P110HC, LT&C, @ 11390'

Cmt'd w/300 Sx

2-3/8" Tubing Landed @ 10379' (1/16/09)  
SN & Notched Collar on bottom

CIBP @ 11150' (1/9/09)

PBTD @ 11300'

TD @ 11392



# Varian Star Chromatography Workstation

SM

## Natural Gas Analysis Report

Run File	C:\STAR\DATA\DEVON07_2;22;38 PM_11-6-08_.RUN		
Method	C:\Star\BTUC6+.mth		
Operator	Precision Gas Meas	Analysis Date	11/6/08 -- Morrow
Station #	68694	Company	DEVON ENERGY
Lease	WESTSIDE 4 ST. COM 1	Pulled Data	10/28/08 PRESS 422 TEMP 52
Producer	DEVON ENERGY	Water (lbs)	

Component	Mole %	GPM
H2S	0.000	0.0000
nitrogen	0.367	0.0000
methane	93.175	0.0000
propane	0.978	0.2695
i-butane	0.154	0.0505
n-butane	0.213	0.0673
carbon dioxide	0.887	0.0000
i-pentane	0.080	0.0293
n-pentane	0.055	0.0197
ethane	3.919	1.0480
hexane+	0.173	0.0742
Totals	100.0000	1.5585

Relative Density from Composition 0.6075

Lab Density Test Value

BTUs @ 14.73 Saturated 1,048

BTUs @ 14.73 Dry 1,066

Compressibility 0.99765

11/6/08

DISTRICT I  
1825 N. French Dr., Hobbs, NM 88240  
DISTRICT II  
811 South First, Artesia, NM 88210  
DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410  
DISTRICT IV  
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources Department

RECEIVED

Form C-102  
Revised March 17, 1999

SEP - 9 2005  
to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

2040 South Pacheco  
Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name Happy Valley; Morrow
Property Code	Property Name WESTSIDE 4 STATE COM	Well Number 1
GRID No. 6137	Operator Name DEVON ENERGY PRODUCTION CO., L.P.	Elevation 3267'

Surface Location

UL or lot No. M	Section 4	Township 22 S	Range 26 E	Lot Idn	Feet from the 1000	North/South line SOUTH	Feet from the 660'	East/West line WEST	County EDDY
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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
Dedicated Acres 320	Joint or Infill	Consolidation Code	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>Lat - N32°25'00.7" Long - W104°18'16.4"</p> <p>3265.3' 3261.3'</p> <p>660'</p> <p>3274.7' 3271.7'</p> <p>1000'</p>	<p><b>OPERATOR CERTIFICATION</b></p> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p>Signature Stephanie A. Ysasaga</p> <p>Printed Name Senior Engineering Tech</p> <p>Title 09/07/05</p> <p>Date</p> <p><b>SURVEYOR CERTIFICATION</b></p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>JULY 28, 2005</p> <p>Date Surveyed</p> <p>Signature &amp; Seal of Professional Surveyor</p> <p>GARY L. JONES 7977</p> <p>No. 5575</p> <p>Certificate No. Gary L. Jones 7977</p> <p>BASIN SURVEY</p>
---	---

Submit to Appropriate District Office  
 State Lease - 6 copies  
 Fee Lease - 5 copies  
 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 and Natural Resources

Oil Conservation Division  
 1220 South St. Francis Dr.  
 Santa Fe, NM 87505

Form C-105  
 Revised June 10, 2003

Well API No. 30-015-24375

5. Indicate Type of Lease  
☒ STATE ☐ FEDERAL

State Oil & Gas Lease No. 123456789

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a Type of Well:  
☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other

b. Type of Completion:  
☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr., ☐ Other

2. Name of Operator  
**DEVON ENERGY PRODUCTION COMPANY, LP**

3. Address of Operator  
**20 NORTH BROADWAY, OKC OK 73102-8260**

7. Lease Name and Unit Agreement Name  
**Westside 4 State Com**

8. Well No.  
**1**

9. Pool name or Wildcat  
**Happy Valley; Morrow (Gas)**

4. Well Location  
 Unit Letter M 1000 feet from the SOUTH line and 660 feet from the WEST line  
 Section 4 22S Township 26E Range NMPM EDDY County New Mexico

10. Date Spudded 3/4/2006 11. Date T.D. Reached 5/10/2006 12. Date Completed 7/1/2006 13. Elevations (DR, RKB, RT, GL)\* 2962' 14. Elev. Casinghead

15. Total Depth: MD 11,392' 16. Plug Back T.D.: 11,300' 17. If Multiple Compl. How Many Zones No 18. Intervals Drilled BY Rotary Tools Cable Tools  
X

19. Producing Intervals(s), of this completion - Top, Bottom, Name  
11,062' - 11,174' Morrow

20. Was Directional Survey Made  
No

21. Type Electric and Other Logs Run  
CFL/HNGS IND, GR, CBL, HNGS, ML, CNL, BHC

22. Was Well Cored  
No

23 CASING RECORD (Report all strings set in well)

Casing Size	Weight LB./FT.	Depth Set	Hole Size	Cementing Record	Amount Pulled
20"	94# K-55	608'	26"	1050 sx CI C, 400 to pit	
9 5/8"	36# J-55 ST&C	2308'	12 1/4"	2100 sx CI C, 25 to pit	
7"	26# P-110 LT&C	8393'	8 3/4"	2170 sx CI C, 170 to pit	
4 1/2"	13.5# P-110 LT&C liner	11392'	6 1/8"	300 sx CI C	

24 Liner Record 25 Tubing Record

Size	Top	Bottom	Sacks Cement	Screen	Size	Depth Set	Packer Set
4.5	8080'	11392'	300 sx CI C				

26. Perforation record (interval, size, and number)  
11062-11174'; (6SPF) 480 shots

27. Acid, Shot, Fracture, Cement, Squeeze, ETC.  
 Depth Interval 11062-11174 Amount and Kind Material Used  
Acidize w/3000 gals of 7.5% HCL acid carrying 330 ball slrs. Frac w/42500# of ultra prop 18/40 sn, 16,506 gals linear gel.

28 PRODUCTION

Date First Production	Production Method (Flowing, Gas lift, pumping - Size and type pump)	Well Status (Prod. Or Shut-In)
<u>7/1/2006</u>	<u>Flowing</u>	<u>Producing</u>
Date of Test <u>7/17/2006</u> Hours Tested <u>24</u> Choke Size <u>11/64"</u> Prod'n For Test <u>Oil - Bbl</u> Gas - MCF <u>829</u> Water - Bbl <u>8</u> Gas - Oil Ratio <u>#DIV/0!</u>	Period <u>0</u>	
Flowing Tubing Press. <u>1,350</u> Casing Pressure <u>0</u> Calculated 24-Hour Rate <u>0</u> Gas - MCF <u>829</u> Water - Bbl <u>8</u> Oil Gravity - API (Corr.)	Oil - Bbl <u>0</u>	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)  
**Sold**

Test Witnessed By

30. List Attachments

31. I hereby certify that the information shown on both sides of this form as true and complete to the best of my knowledge and belief

Printed  
 SIGNATURE [Signature] Name Stephanie A. Ysasaga Title Sr. Staff Engineering Technician DATE 7/31/2006

E-mail Address: Stephanie.Ysasaga@dvn.com

Submit 3 Copies To Appropriate District  
Office  
District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Ave., 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 and Natural Resources

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

Form C-103

May 27, 2004

WELL API NO. 30-015-34375	24 25 26 27 28 29 30 31
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEDERAL <input type="checkbox"/>	1 2 3 4 5 6 7 8 9 10 11 12
6. State Oil & Gas Lease No.	
7. Lease Name or Unit Agreement Name Westside 4 State Corp.	
8. Well Number 5	
9. OGRID Number 6137	
10. Pool name or Wildcat Happy Valley; Morrow (Gas) (78060)	

Pit or Below-grade Tank Application ☐ or Closure ☐

Pit type \_\_\_\_\_ Depth to Groundwater \_\_\_\_\_ Distance from nearest fresh water well \_\_\_\_\_ Distance from nearest surface water \_\_\_\_\_

Pit Liner Thickness: \_\_\_\_\_ mil Below-Grade Tank: Volume \_\_\_\_\_ bbls; Construction Material \_\_\_\_\_

SUNDRY NOTICES AND REPORTS ON WELLS  
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

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

2. Name of Operator  
Devon Energy Production Company, LP

3. Address of Operator  
20 North Broadway Oklahoma City, Oklahoma 73102-8260 (405) 552-7802

4. Well Location  
Unit Letter M : 1000 feet from the south line and 660 feet from the west line  
Section 4 Township 22S Range 26E Eddy County NMPM

11. Elevation (Show whether DR, RKB, RT, GR, etc.)  
3267'

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐  
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐  
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐  
COMMENCE DRILLING OPNS. ☐ P AND A ☐  
CASING/CEMENT JOB ☐

OTHER: Completion Report ☒

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

06/02/06 MIRU.  
06/05/06 RU Swivel & dress off liner top @ 8079'. R/D swivel. TOH w/mill. Clean cmt to PBTD @ 11,300'. Displace 2% KCL w/10% methanol.  
06/06/06 RIH w/CBL logging tools to PBTD of 11,300'. Swab.  
06/09/06 RIH & perf morrow fm @ 11,062-11,174'; (6SPF) 480 shots. TIH set pkr @ 11,000'. RIH w/ON/OFF tool & tbg.  
06/10/06 Ld tbg w/2% KCL, blow tbg disc, swab.  
06/12/06 Acidize fm @ 11,062-11,174' w/3000 gals of 7.5% HCL acid carrying 330 ball sealers. Swab. Open, flw bck. Swab. RD/MO/WSU.  
06/19/06 RU kill trk, pmp 50 bbls of 2% dwn tbg & kill well. NU/BOP, rls pkr & TOH w/tbg - NU/BOP.  
06/22/06 Frac dwn 5.5 csg @ 11,062-11,174' w/42,500# of ultra prop 18/40 sn, 16,506 gals of linear gel.  
06/23/06 W/L & RIH w/3.70" guage ring to top of liner. R/D W/L. Open & flw well.  
06/24/06 RU kill trk, ld csg w/260 bbls of 2% KCL & kill well - RD/Kill trk.  
06/26/06 TIH w/3 1/2" overshot w 3 1.8" grapple to top of liner work over shot over CCL - TOH w/tbg & overshot - rec guage ring. +  
06/28/06 TIH w/bit, tbg & bailer. Stoke blr & C/O sn. TOH w/blr - TIH w/notched collar - sn & tbg. RU swivel & circ. Swab.  
06/29/06 Open well & flow back. Bring well on line.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE [Signature] TITLE Sr. Staff Engineering Technician DATE 7/31/06

Type or print name: Stephanie A. Ysasaga E-mail address: Stephanie.Ysasaga@dmn.com Telephone No. (405) 552-7802  
For State Use Only

FOR RECORDS ONLY

APPROVED BY: \_\_\_\_\_ TITLE \_\_\_\_\_ DATE AUG 01 2006

Conditions of Approval (if any):

Field Group: CATCLAW DRAW AREA

Lease: WESTSIDE 4 STATE COM

Well Type: GAS

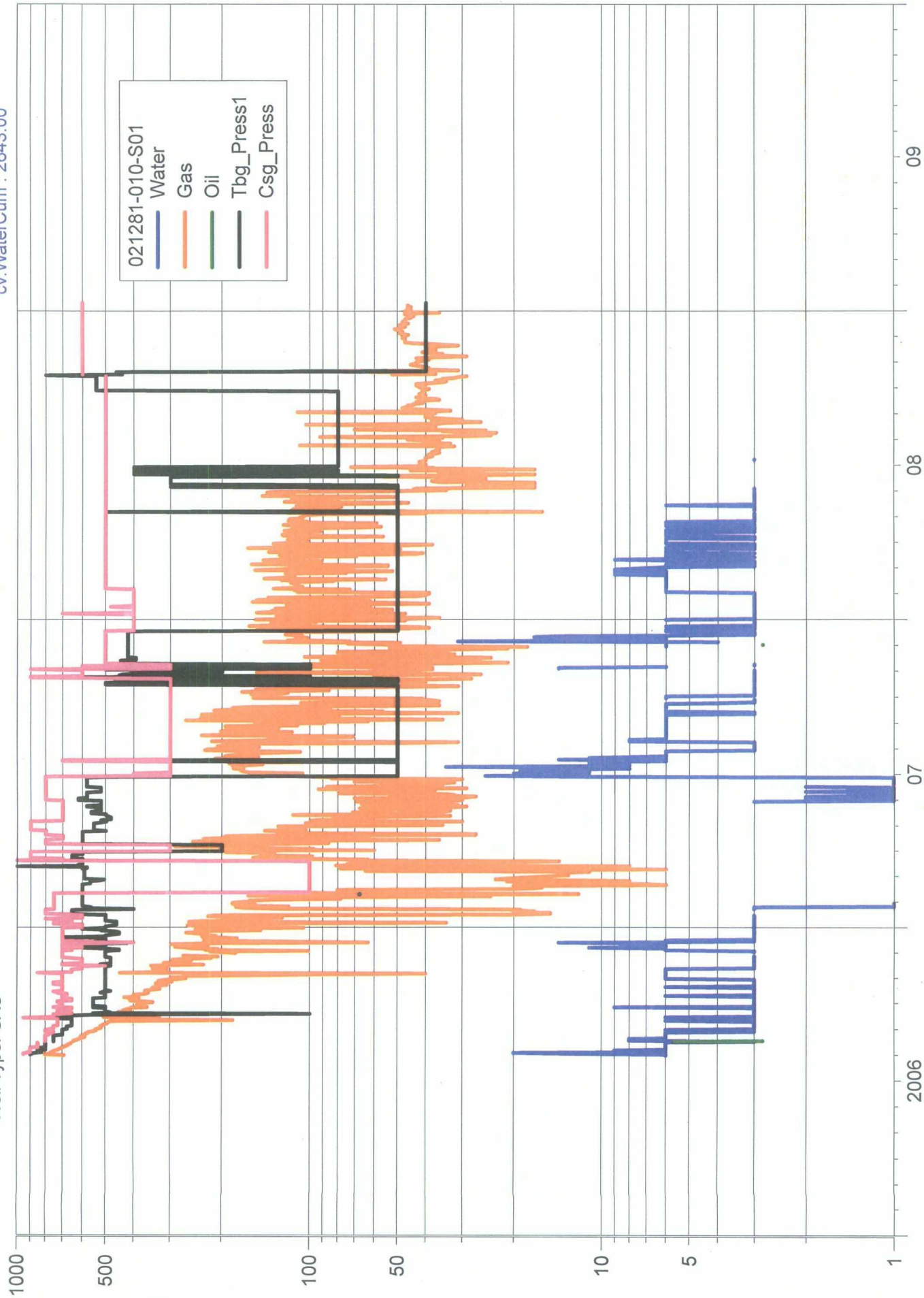
# WESTSIDE 4 STATE COM 1

Sand Name: MORROW

cv.OilCum : 78.46

cv.GasCum : 118.77 M

cv.WaterCum : 2643.00





## Laboratory Services, Inc.

2609 West Marland  
Hobbs, New Mexico 88240

Telephone: (575) 397-3713

SW

FOR: Devon Energy  
P. O. Box 250  
Artesia, New Mexico 8821-0250

SAMPLE: Sta. #88512078  
IDENTIFICATION West Side 4 St. Corn. #1  
COMPANY: Devon Energy  
LEASE:  
PLANT:

SAMPLE DATA: DATE SAMPLED: 1/22/09 7:00 am - ATOZ A  
ANALYSIS DATE: 1/23/09  
PRESSURE - PSIG 428  
SAMPLE TEMP. °F 43  
ATMOS. TEMP. °F 47

GAS (XX) LIQUID ( )  
SAMPLED BY: Robert Hernandez  
ANALYSIS BY: Vickie Sullivan

REMARKS: H<sub>2</sub>S = 0

## COMPONENT ANALYSIS

COMPONENT	MOL PERCENT	GPM
Hydrogen Sulfide (H <sub>2</sub> S)	0.000	
Nitrogen (N <sub>2</sub> )	0.909	
Carbon Dioxide (CO <sub>2</sub> )	0.423	
Methane (C <sub>1</sub> )	91.618	
Ethane (C <sub>2</sub> )	4.446	1.186
Propane (C <sub>3</sub> )	1.375	0.378
I-Butane (IC <sub>4</sub> )	0.289	0.094
N-Butane (NC <sub>4</sub> )	0.371	0.117
I-Pentane (IC <sub>5</sub> )	0.159	0.058
N-Pentane (NC <sub>5</sub> )	0.122	0.044
Hexane Plus (C <sub>6</sub> +) <u>0.288</u>	<u>0.288</u>	<u>0.125</u>
	100.000	2.002

BTU/CU.FT. - DRY 1085  
AT 14.650 DRY 1082  
AT 14.650 WET 1063  
AT 14.73 DRY 1088  
AT 14.73 WET 1069

MOLECULAR WT. 17.9323

SPECIFIC GRAVITY -  
CALCULATED 0.619  
MEASURED

Submit to Appropriate District Office  
State Lease - 6 copies  
Fee Lease - 5 copies  
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

FEB 11 2009

Form C-105

Revised June 10, 2003

State of New Mexico  
Energy, Minerals and Natural Resources

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Well API No.	30-015-34375
5 Indicate Type of Lease	<input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE
State Oil & gas Lease No	

### WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other	7 Lease Name and Unit Agreement Name Westside 4 State Corn
b Type of Completion <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr., <input type="checkbox"/> Other	8. Well No. 1
2. Name of Operator DEVON ENERGY PRODUCTION COMPANY, LP	9 Pool name or Wildcat Happy Valley; Atoka (Gas)
3 Address of Operator 20 NORTH BROADWAY, OKC OK 73102-8260	

4. Well Location Unit Letter <u>M</u> <u>1000</u> feet from the <u>SOUTH</u> line and <u>660</u> feet from the <u>WEST</u> line Section <u>4</u> <u>22S</u> Township <u>26E</u> Range <u>NMPM</u> <u>EDDY</u> County <u>New Mexico</u>			
10 Date Spudded 3/4/2006	11 Date T.D. Reached 5/10/2006	12. Date Completed 2/2/2009	13. Elevations (DR, RKB, RT, GL)* 2962'
14 Elev Casinghead			
15. Total Depth MD 11,392'	16 Plug Back T.D. 11,150'	17 If Multiple Compl How Many Zones No	18 Intervals Drilled BY
19. Producing Intervals(s), of this completion - Top, Bottom, Name 10,384' - 10,388' Atoka			20. Was Directional Survey Made No
21. Type Electric and Other Logs Run CFL/HNGS IND, GR, CBL, HNGS, ML, CNL, BHC (sent in w/initial completion)			22. Was Well Cored No

23 CASING RECORD (Report all strings set in well)					
Casing Size	Weight LB./FT.	Depth Set	Hole Size	Cementing Record	Amount Pulled
20"	94# K-55	608'	26"	1050 sx CI C, 400 to pit	
9 5/8"	36# J-55 ST&C	2308'	12 1/4"	2100 sx CI C, 25 to pit	
7"	26# P-110 LT&C	8393'	8 3/4"	2170 sx CI C, 170 to pit	
4 1/2"	13.5# P-110 LT&C liner	11392'	6 1/8"	300 sx CI C	

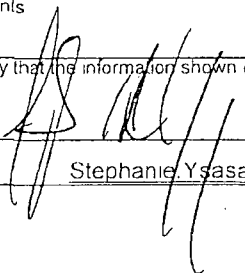
24 Liner Record				25 Tubing Record			
Size	Top	Bottom	Sacks Cement	Screen	Size	Depth Set	Packer Set
4.5	8080'	11392'	300 sx CI C		2 3/8"	10,379'	

26 Perforation record (interval, size, and number) Morrow perfs @ 11,062'-11,174'; (6SPF) 480 shots - Isolated by CIBP @ 11,150' & Composite Plug @ 11,030'. Atoka perfs @ 10,384' - 10,388'	27. Acid, Shot, Fracture, Cement, Squeeze, ETC. Depth Interval 10,384-10388 Amount and Kind Material Used Acidize w/100 gals 7.5% HCL acid + 35 ball slrs. Frac w/14,000# excel 20/40 lightening, 3,000# sn w/460 bbls laden fluid; total propanat 14,031#.
---	---

28 PRODUCTION							
Date First Production 2/2/2009	Production Method (Flowing, Gas lift, pumping - Size and type pump) Flowing				Well Status (Prod. Or Shut-In) Producing		
Date of Test 2/2/2009	Hours Tested 24	Choke Size	Prod'n For Test Period	Oil - Bbl 0	Gas - MCF 68.01	Water - Bbl 0	Gas - Oil Ratio #DIV/0!
Flowing Tubing Press 80	Casing Pressure 350	Calculated 24-Hour Rate	Oil - Bbl 0	Gas - MCF 68.01	Water - Bbl 0	Oil Gravity - API (Corr)	

29 Disposition of Gas (Sold, used for fuel, vented, etc.) Sold	Test Witnessed By
---	-------------------

30. List Attachments
----------------------

31. I hereby certify that the information shown on both sides of this form as true and complete to the best of my knowledge and belief			
SIGNATURE	Printed	Name	Title
		Stephanie A. Ysasaga	Sr. Staff Engineering Technician
E-mail Address.	DATE 2/9/2009		
Stephanie.Ysasaga@dvn.com			

Submit 3 Copies To Appropriate District Office  
District I  
1625 N French Dr., Hobbs, NM 88240  
District II  
1301 W Grand Ave., 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 and Natural Resources

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

FEB 11 2009

Form C-103  
May 27, 2004

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS)		WELL API NO. 30-015-34375
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator Devon Energy Production Company, LP		6. State Oil & Gas Lease No.
3. Address of Operator 20 North Broadway Oklahoma City, Oklahoma 73102-8260 (405) 552-7802		7. Lease Name or Unit Agreement Name Westside 4 State Com
4. Well Location Unit Letter <u>M</u> : 1000 feet from the <u>      </u> south <u>      </u> line and <u>660</u> feet from the <u>      </u> west <u>      </u> line Section <u>4</u> Township <u>22S</u> Range <u>26E</u> Eddy County <u>NMPM</u>		8. Well Number <u>1</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) <u>3267'</u>		9. OGRID Number <u>6137</u>
Pit or Below-grade Tank Application <input type="checkbox"/> or Closure <input type="checkbox"/>		
Pit type <u>      </u> Depth to Groundwater <u>      </u> Distance from nearest fresh water well <u>      </u> Distance from nearest surface water <u>      </u>		
Pit Liner Thickness: <u>      </u> mil Below-Grade Tank: Volume <u>      </u> bbls; Construction Material <u>      </u>		

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐  
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐  
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐  
COMMENCE DRILLING OPNS. ☐ P AND A ☐  
CASING/CEMENT JOB ☐

OTHER: ATOKA COMPLETION REPORT ☒

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

12/31/08 - 02/02/09:

MIRU W/L, tag @ 11,060', PBTD @ 11,300'; perfs @ 11,062' - 11,174'. Bled well dwn. NU/DN/WH - NU/BOP. PU 7 jts & tag PBTD @ 11,300' - TOH w/357 jts tbg & sn & notch collar. RIH w/3.5" guage ring to 11,270'. Set 4 1/2" CIBP @ 11,150'. Set 4 1/2 composite plug @ 11,030'. Perf Atoka @ 10,384' - 10,388'; (4SPF) 16 holes. Ld csg & tst to 3000#. TIH w/2 7/8" & 2 3/9" tprpd strng w/arrw set pkr to 10,400'. Spot across perfs @ 10,384' - 10,388'. POOH & set pkr @ 10,314'. Acidize atoka perfs w/100 gals 7.5% HCL acid + 35 ball slrs. Open well, flw bck. Frac atoka @ 10,388' - 10,388' dwn split tbg strng w/14,000# excel 20/40 lightening, 3,000# sn w/460 bbls laden fluid; total propanant 14,031#. Bled well dwn, open well, flow. Ld tbg w/4% KCL - NU/DN/trec - NU/BOP & rls pkr. TOH laying dwn all 2 7/8" tbg - s/b 2 3/8" tbg. TIH w/2 3/8" notch collar - 2 3/8" SN & 20 STD's of 2 3/8" tbg. Bled well dwn, upld BLW. TIH w/notched collar & tag snd @ 10,961'. RU swivel & C/O sn to PBTD @ 11,030'. PUH & NU/DN/BOP - NU trec - RIH w/swab. Open well, flow bck. Turn well over to production.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOC guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE [Signature] TITLE Sr. Staff Engineering Technician DATE 02/02/2009

Type or print name: Stephanie A Ysasaga E-mail address: Stephanie.Ysasaga@dmn.com Telephone No. (405) 552-7802  
For State Use Only

APPROVED BY: [Signature] TITLE Geologist DATE 2/18/09  
Conditions of Approval (if any):

Report tubing depth - weight and grade



DISTRICT I  
1825 N. French Dr., Hobbs, NM 88240  
DISTRICT II  
811 South First, Artesia, NM 88210  
DISTRICT III  
1000 Rio Brazos Rd., Artec, NM 87410  
DISTRICT IV  
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources Department

RECEIVED

Form C-102  
Revised March 17, 1999

SEP - 8 2005  
Submitted to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

2040 South Pacheco  
Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-34375	Pool Name Happy Valley; Atoka
Property Code 35073	Property Name WESTSIDE 4 STATE COM
OGED No. 6137	Operator Name DEVON ENERGY PRODUCTION CO., L.P.
	Well Number 1
	Elevation 3267'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	4	22 S	26 E		1000	SOUTH	660'	WEST	EDDY

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
Dedicated Acres 320	Joint or Infill	Consolidation Code	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>OPERATOR CERTIFICATION</p> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p>Signature <i>[Signature]</i> Stephanie A. Ysasaga Printed Name Senior Engineering Tech Title 09/07/05 Date</p>
	<p>SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>JULY 28, 2005 Date Surveyed Signature <i>[Signature]</i> Professional Surveyor No. 5575 Certificate No. Gary L. Jones 7977 BASIN SURVEY</p>

Field Group: CATCLAW DRAW AREA

Lease: WESTSIDE 4 STATE COM

# WESTSIDE 4 STATE COM 1

Sand Name: ATOKA

Well Type: GAS

cv.OilCum : 0.00  
cv.GasCum : 2.57 M  
cv.WaterCum : 110.00

