

DATE IN 09/12/13	SUSPENSE	ENGINEER PRG	LOGGED IN 09/12/13	TYPE SWD	APP NO PRG 1325559135
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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



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. Porter
 Print or Type Name

Signature

Operations Technician
 Title

Stephanie.Porter@dmn.com
 e-mail Address

Date

30-015-41649
 Cotton Draw Unit
 SWD #181

Devon

2013 SEP 12 A 10:37

RECEIVED OOD

Well construction -
 PE requested;
 TD to top 100' of
 Ellenburger

09/11/2013

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance _____ ☒ Disposal _____ Storage
Application qualifies for administrative approval? _____ ☒ Yes _____ No
- II. OPERATOR: _____ Devon Energy Production Company, LP _____
ADDRESS: _____ 333 West Sheridan Avenue, Oklahoma City, Oklahoma 73102-5010 _____
CONTACT PARTY: _____ Stephanie A. Porter _____ PHONE: _____ 405-552-7802
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? _____ Yes _____ ☒ No
If yes, give the Division order number authorizing the project: _____
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- *XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- NAME: _____ Stephanie A. Porter _____ TITLE: _____ Operations Technician _____
SIGNATURE: _____ DATE: _____ 8/11/2013 _____
E-MAIL ADDRESS: _____ Stephanie.Porter@dvn.com _____
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: _____

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

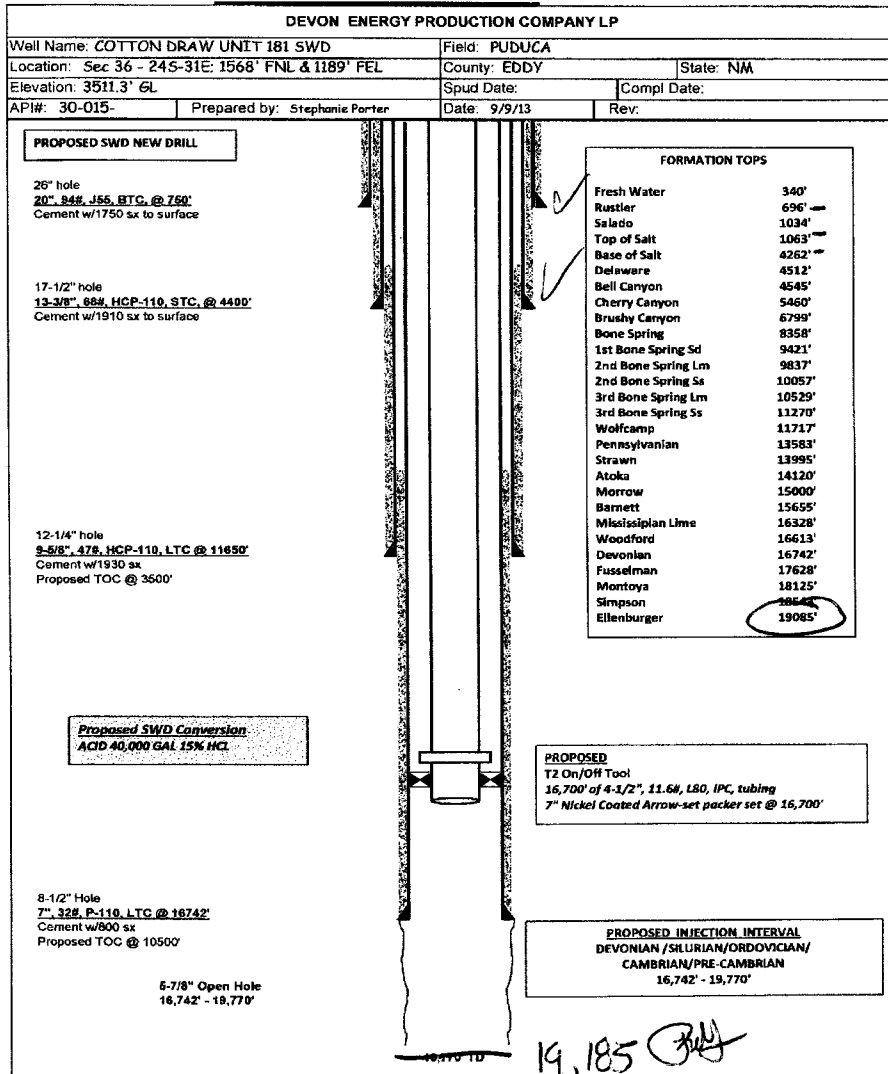
Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

INJECTION WELL DATA SHEET

OPERATOR: Devon Energy Production Company, LPWELL NAME & NUMBER: COTTON DRAW UNIT SWD 181WELL LOCATION: 1568' FNL & 1189' FEL H Sec 36 T24S R31E
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE**WELLBORE SCHEMATIC****WELL CONSTRUCTION DATA**Surface CasingHole Size: 26"Casing Size: 20", 94# @ 750'Cemented with: 1750 sx.or _____ ft³Top of Cement: Surface

Method Determined: Circ. cement

Intermediate CasingHole Size: 17-1/2"Casing Size: 13-3/8", 68#, @ 4400'Cemented with: 1910 sx.or _____ ft³Top of Cement: Surface

Method Determined: Circ. cement

Intermediate CasingHole Size: 12-1/4"Casing Size: 9-5/8", 47#, @ 11650'Cemented with: 1930 sx.or _____ ft³Top of Cement: 3500'Method Determined: Calc TOCProduction CasingHole Size: 8-1/2"Casing Size: 7", 32#, @ 16742'Cemented with: 800 sx.or _____ ft³Top of Cement: TOC @ 10500'

Method Determined: Calc TOC

Total Depth: 19,185'Injection Interval (Open Hole)16742' to 19,185'

(Perforated or Open Hole; indicate which)

R-111-P
OK casing
regR-111-P
OK casing
reg
OK

32

DEVON ENERGY PRODUCTION COMPANY LP

Well Name: COTTON DRAW UNIT 181 SWD		Field: PUDUCA	
Location: Sec 36 - 24S-31E; 1568' FNL & 1189' FEL		County: EDDY	State: NM
Elevation: 3511.3' GL		Spud Date:	Compl Date:
API#: 30-015-	Prepared by: Stephanie Porter	Date: 9/9/13	Rev:

PROPOSED SWD NEW DRILL

26" hole
20", 94#, J55, BTC, @ 750'
 Cement w/1750 sx to surface

17-1/2" hole
13-3/8", 68#, HCP-110, STC, @ 4400'
 Cement w/1910 sx to surface

12-1/4" hole
9-5/8", 47#, HCP-110, LTC @ 11650'
 Cement w/1930 sx
 Proposed TOC @ 3500'

Proposed SWD Conversion
 ACID 40,000 GAL 15% HCL

8-1/2" Hole
7", 32#, P-110, LTC @ 16742'
 Cement w/800 sx
 Proposed TOC @ 10500'

5-7/8" Open Hole
 16,742' - 19,770'

FORMATION TOPS

Fresh Water	340'
Rustler	696'
Salado	1034'
Top of Salt	1063'
Base of Salt	4262'
Delaware	4512'
Bell Canyon	4545'
Cherry Canyon	5460'
Brushy Canyon	6799'
Bone Spring	8358'
1st Bone Spring Sd	9421'
2nd Bone Spring Lm	9837'
2nd Bone Spring Ss	10057'
3rd Bone Spring Lm	10529'
3rd Bone Spring Ss	11270'
Wolfcamp	11717'
Pennsylvanian	13583'
Strawn	13995'
Atoka	14120'
Morrow	15000'
Barnett	15655'
Mississippian Lime	16328'
Woodford	16613'
Devonian	16742'
Fusselman	17628'
Montoya	18125'
Simpson	18543'
Ellenburger	19085'

PROPOSED

T2 On/Off Tool
 16,700' of 4-1/2", 11.6#, L80, IPC, tubing
 7" Nickel Coated Arrow-set packer set @ 16,700'

PROPOSED INJECTION INTERVAL

DEVONIAN /SILURIAN/ORDOVICIAN/
 CAMBRIAN/~~PRE-CAMBRIAN~~

16,742' - ~~19,770'~~

19,185

~~19,770' TD~~

19,185 *BA*

INJECTION WELL DATA SHEET

Tubing Size: 4-1/2" Lining Material: IPC

Type of Packer: 7" Nickel Coated Arrowset Packer

Packer Setting Depth: +/- 16700'

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? Yes

If no, for what purpose was the well originally drilled? _____

2. Name of the Injection Formation: Devonian/Silurian/Ordovician/Cambrian/Pre-Cambrian

3. Name of Field or Pool (if applicable): (to be assigned)

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. n/a

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

Fresh Water 340; Rustler 696 (Barren); Salado 1034 (Barren); Top of Salt 1063 (Barren); Base of Salt 4262 (Barren); Delaware 4512 (Oil); Bell Canyon 4545 (Oil); Cherry Canyon 5460 (Oil); Brushy Canyon 6799 (Oil); Bone Spring 8358 (Oil/Gas); 1st Bone Spring Sd 9421 (Oil); 2nd Bone Spring Lm 9837 (Oil); 2nd Bone Spring Ss 10057 (Oil); 3rd Bone Spring Lm 10529 (Oil); 3rd Bone Spring Ss 11270 (Oil); Wolfcamp 11717 (Gas); Pennsylvanian 13583 (Gas); Strawn 13995 (Gas); Atoka 14120 (Gas); Morrow 15000 (Gas); Barnett 15655 (Barren); Mississippian Lime (Barren); Woodford 16613 (Barren); Devonian 16742 (Barren); Fusselman 17628 (Barren); Montoya 18125 (Barren); Simpson 18543 (Barren); Ellenburger 19085 (Barren)

Proposed Injection Well: Cotton Draw Unit SWD 181

API: 30-015-

APPLICATION FOR INJECTION

Form C-108 Section III

III. Well Data--On Injection Well

A. Injection Well Information

- (1) Lease Cotton Draw Unit SWD
Well No #181
Location 1568' FNL & 1189' FEL
Sec.Twn,Rnge Sec 36-T24S-R31E
Cnty, State Eddy County, NM
- (2) Casing 20", 94#, J55, BTC, @ 750'
Cmt'd w/1750 sx, circ cmt to surf

13-3/8", 68#, HCP-110, STC, @ 4400'
Cmt'd w/1910 sx, circ cmt to surf

9-5/8", 47#, HCP-110, LTC @ 11,650'
Cmt'd w/1930, proposed toc @ 3500'

7", 32#, P110, LTC @ 16742'
Cmt w/800 sx, prop toc @ 10500'
- (3) Injection Tubing 4 -1/2" 11.6# L-80 IPC injection tubing
- (4) Packer 7" Nickel Coated Arrowset Packer @ +/- 16700'

B. Other Well Information

- (1) Injection Formation: Devonian/Silurian/Ordovician/Cambrian/~~Pre-Cambrian~~
Field Name: (to be assigned)
- (2) Injection Interval: 16742 - ~~10770~~

- (3) Original Purpose of Wellbore:

Drill and convert to SWD

- (4) Other perforated intervals:

n/a

- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well if any.

Fresh Water 340; Rustler 696 (Barren); Salado 1034 (Barren); Top of Salt 1063 (Barren); Base of Salt 4262 (Barren); Delaware 4512 (Oil); Bell Canyon 4545 (Oil); Cherry Canyon 5460 (Oil); Brushy Canyon 6799 (Oil); Bone Spring 8358 (Oil/Gas); 1st Bone Spring Sd 9421 (Oil); 2nd Bone Spring Lm 9837 (Oil); 2nd Bone Spring Ss 10057 (Oil); 3rd Bone Spring Lm 10529 (Oil); 3rd Bone Spring Ss 11270 (Oil); Wolfcamp 11717 (Gas); Pennsylvanian 13583 (Gas); Strawn 13995 (Gas); Atoka 14120 (Gas); Morrow 15000 (Gas); Barnett 15655 (Barren); Mississippian Lime (Barren); Woodford 16613 (Barren); Devonian 16742 (Barren); Fusselman 17628 (Barren); Montoya 18125 (Barren); Simpson 18543 (Barren); Ellenburger 19085 (Barren)

} limited to 100' of Ellenburger
in conversation on
with Devon staff
19185'

Proposed Injection Well: Cotton Draw Unit SWD #181
API: 30-015-
APPLICATION FOR INJECTION
Form C-108 Section VII to XIII
Page 1

VII Attach data on the proposed operation, including:

- (1) Proposed average injection rate: 7500 BWPD
Proposed maximum injection rate: 15000 BWPD
- (2) The system will be a closed system.
- (3) Proposed average injection pressure: 1674 psi
Proposed max injection pressure: 3348 psi
- (4) The injection fluid will be produced water from area wells producing from the Bone Spring and/or Delaware formation that will be injected into the Devonian/Silurian/Ordovician/Cambrian/Pre-Cambrian formation.
- (5) A representative water analysis is submitted for the Delaware & Bone Spring formation(s).

$$16742 \times .2 = 3348$$

VIII Geologic Injection Zone Data

The injection zone is the Devonian/Silurian/Ordovician formation from 16742' to ~~16770'~~ 19185'. The gross injection interval is 3028' thick. The Devonian/Silurian/Ordovician/Cambrian/~~Pre-Cambrian~~ formation is a Permian aged sandstone. The average depth to fresh water is 340' in this area.

IX Proposed Stimulation

Based on injectivity results this interval could be acid stimulated.

X Log Data

Logs will be submitted to the OCD.

Requested CBL

XI Fresh Water Analysis

A Fresh Water Analysis Report for the Paduca Delaware Water Well, in Sec 2-T25S-R31E located @ Lat 32.09' 56.7" Long -103.44' 51.3" has been provided.

Proposed Injection Well: Cotton Draw Unit SWD #181

API: 30-015-

APPLICATION FOR INJECTION

Form C-108 Section VII to XIII


Continued - Page 2

XII Geologic / Engineering Statement

An examination of this area has determined there are no open faults or other hydrologic connection between the disposal zone and any underground drinking water.

The proposed Cotton Draw Unit (CDU) 181 SWD is a Siluro-Devonian Injection well that will target injecting produced water into the Devonian, Fusselman, Montoya, Simpson, and Ellenburger Formations. Attached in Figure 1 is a top of Devonian structure map (in feet Mean Sea Level) that shows the location of the CDU 181 SWD in the northern part of the Cotton Draw Unit. The proposed location is structurally downdip from historic and current Devonian gas producers to the south and southeast, so it is anticipated that injection into the Devonian and lower formations from the CDU 181 will not impact gas production.

Attached in Figures 2a and 2b are the logs for the CDU 65 reference well (~1.5 miles to the southwest), which was split in two over the proposed injection zone for ease of viewing. To the left of the depth track is gamma ray, with porosity and resistivity to the right, respectively. Figure 2a shows the top of the Devonian to the top of the Montoya Formations, and Figure 2b shows the top of the Montoya to base of the Ellenburger Formations, which is essentially Pre-Cambrian basement at 19,370'. The lithology of the proposed injection intervals is predominately limestone and dolomite, with fractures providing the main porosity and permeability that will take injection water. The proposed injection interval is ~3,000 feet (16,742'-19,770') in the CDU 181 SWD, which could be modified based on drilling results or log data which indicate high porosity zones in limestone or dolomite due to fractures.


James Allbee, Operations Supervisor
Direct #: (405)-228-8698
Cell #: (405)-820-8682

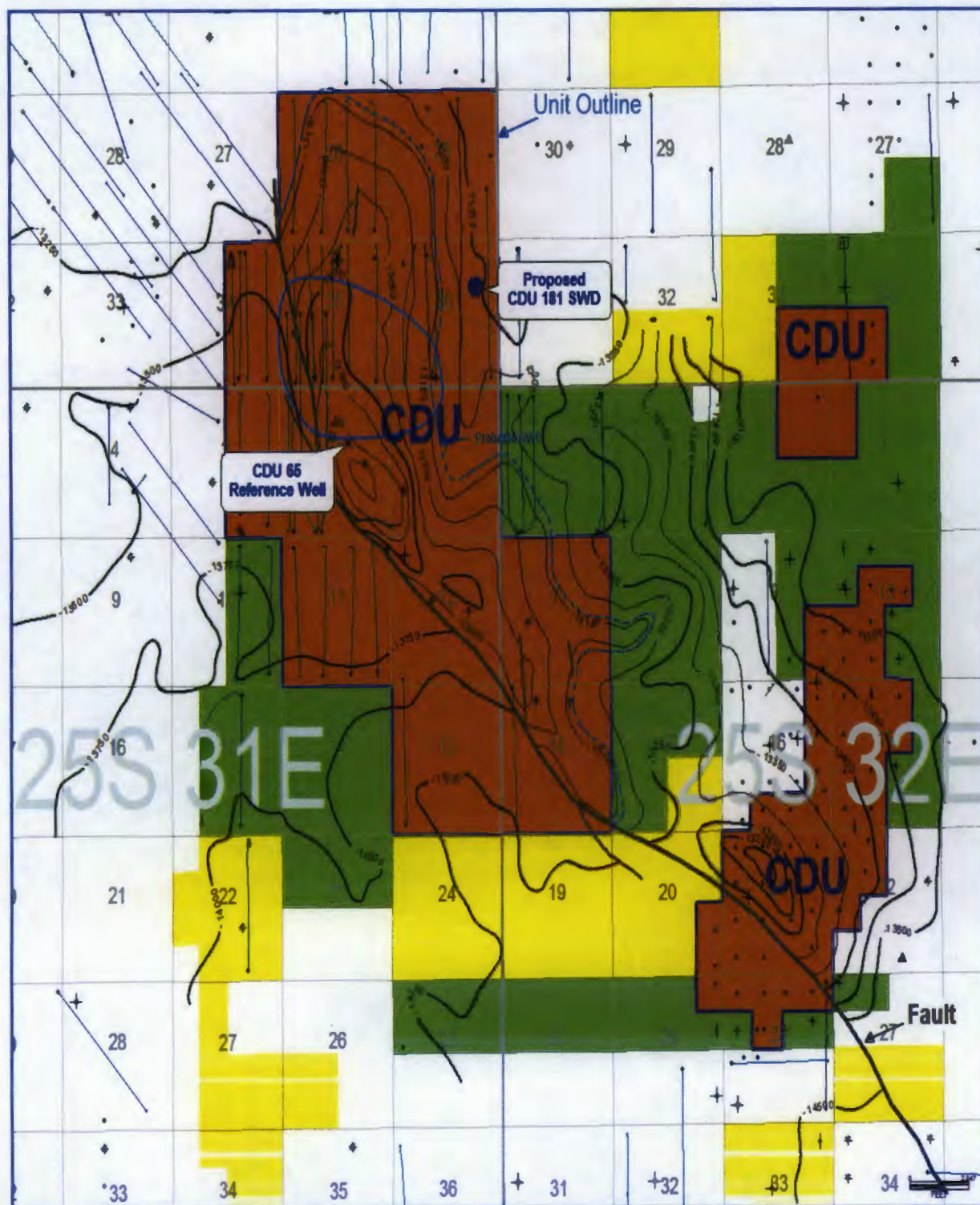
10/23/13
Date:

XIII Proof of Notice

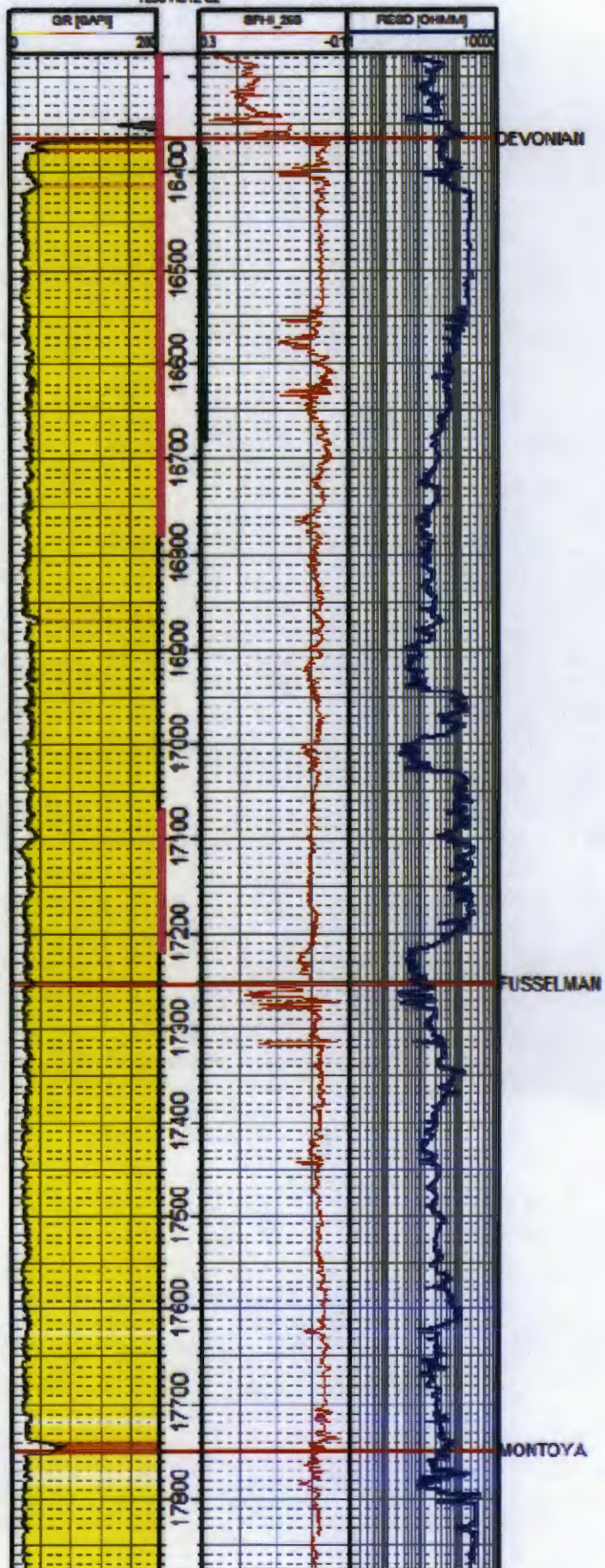
Proof of notice to surface owner, and public legal notification are attached.

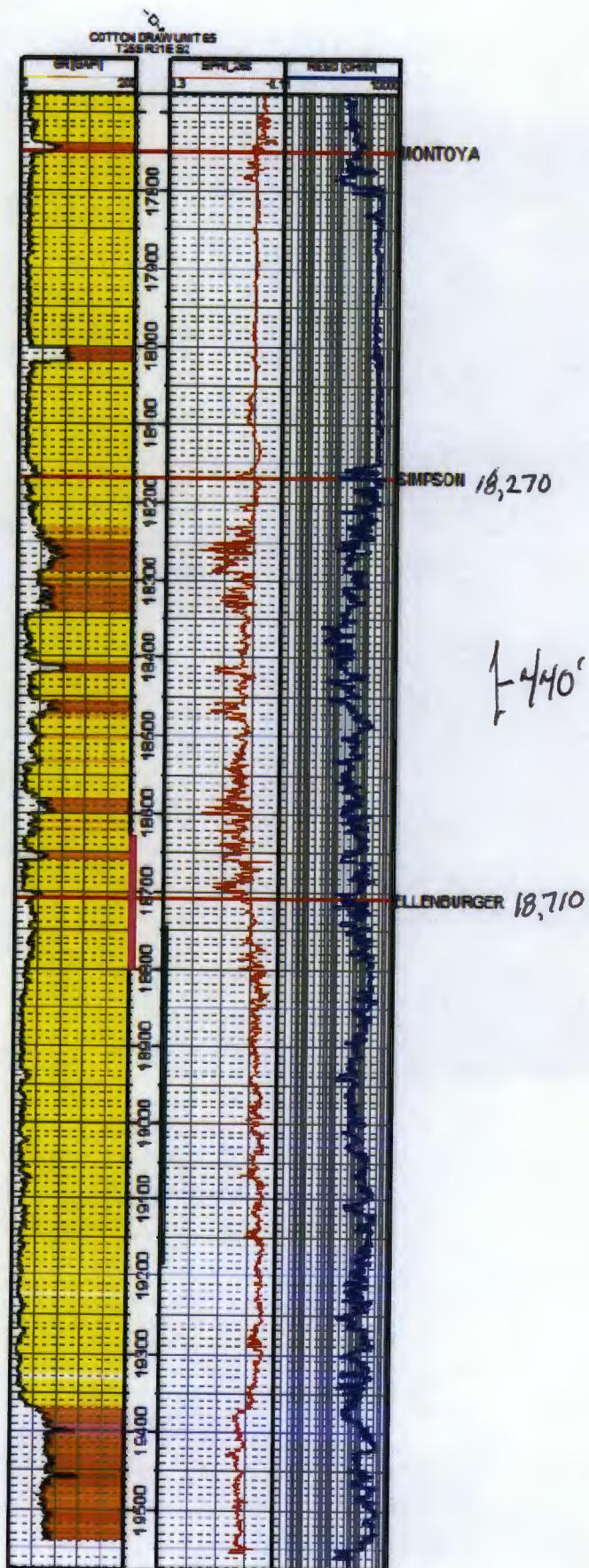


This geological map displays the CDU area with a grid overlay. The map features several colored regions: brown for the CDU unit, green for surrounding areas, and yellow for specific blocks. A blue line outlines the 'Unit Outline'. A blue dot marks the 'Proposed CDU 181 SWD' well. A white box labeled 'CDU 65 Reference Well' is located near the center. The map includes contour lines and various numerical labels (e.g., 28, 27, 30, 29, 32, 31, 32, 33, 34, 35, 36, 31, 32, 33, 34) indicating different geological or elevation zones. A 'Fault' is labeled in the bottom right corner. The map is overlaid with a grid of numbers and letters (e.g., 25S, 31E, 25S, 32E, 21, 24, 19, 20, 27, 26, 33, 34, 35, 36, 31, 32, 33, 34).



COTTON CRAW UNIT 65
T255 R31E S2





C108 ITEM VI--Well Tabulation in 1/2 Mile Review Area Devon Energy Production Company, LP Proposed Inj Well: Cotton Draw Unit 181 SWD Proposed Formation: Devonian/Silurian/Ordovician/Cambrian/Pre-Cambrian Proposed Interval: 16742' - 19770'																	
Operator	Well Name	API NO	County	Surf Location	Sec	Twn	Rnge	Type	Status	Spud Date	Comp Date	TD	PBTD	Comp Zone	Comp Interval-Ft	Casing Program	Cement / TOC
Devon Energy Prod Co LP	Cotton Draw Unit 181 SWD (Proposed)	30-015-	Eddy	1550' FNL 1100' FEL	36	24S	31E	Inj	n/a	n/a	n/a	16600	16600	Devonian	16742-19770'	20", 94# @ 750' 13-3/8", 68# @ 4400' 9-5/8", 47# @ 11650' 7", 29# @ 16742'	1750 sx / surface 1910 sx / surface 1930 sx / 3500 toc 800 sx / 10500 toc
COG Production LLC	Red Head 31 Fed 1	30-025-40390	Eddy	330' FNL & 990' FWL	31	24S	32E	Inj	Active	10/17/2012	4/12/2013	14760	14690	Bone Springs	10620-14670'	13-3/8", 54.5# @ 855' 9-5/8", 36/40# @ 4525' 7-7/8" liner, 17# @ 14780'	750 sx / surface 1550 sx / surface 2000 sx / surface
Devon Energy Prod Co LP	Cotton Draw Unit 111	30-015-36197	Eddy	660' FNL 1980' FWL	36	24S	31E	Oil	Active	4/27/2008	6/17/2008	9740	9660	Delware	8300-8180'	13-3/8", 48# @ 735' 8-5/8", 32# @ 4372' 5-1/2" liner, 17# @ 9735'	700 sx / surface 1115 sx / surface 1500 sx / 2478 cbl

24S 32E

COTTON DRAW UNIT 166H

REDHEAD '31' FEDERAL 1H

COTTON DRAW UNIT 214H

COTTON DRAW UNIT 215H


COTTON DRAW 111

COTTON DRAW UNIT 181 SWD

1/2 MILE

36

31


devon

Cotton Draw Unit 181 SWD

1/2 Mile Radius Map

0 676
FEET

WELL SYMBOLS
● OIL PRODUCING WELL
□ PROPOSED

August 9, 2013

**Cotton Draw Unit SWD 181
C108 Application for Injection
Injection Water Analysis
Delaware Formation
Devon Energy Production Co LP**

North Permian Basin Region
P.O. Box 740
Sundown, TX 79372-0740
(806) 229-8121
Lab Team Leader - Sheila Hernandez
(432) 495-7240

Water Analysis Report by Baker Petrolite

Company:	DEVON ENERGY CORPORATION	Sales RDT:	33521.1
Region:	PERMIAN BASIN	Account Manager:	GENE ROGERS (575) 910-1022
Area:	ARTESIA, NM	Sample #:	633542
Lease/Platform:	NEW MEXICO COM UNIT	Analysis ID #:	125781
Entity (or well #):	3	Analysis Cost:	\$90.00
Formation:	UNKNOWN		
Sample Point:	WELLHEAD		

Summary		Analysis of Sample 633542 @ 75 F					
Sampling Date:	10/19/12	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	10/31/12	Chloride:	143232.0	4040.05	Sodium:	67508.7	2936.46
Analyst:	SANDRA GOMEZ	Bicarbonate:	73.2	1.2	Magnesium:	3523.0	289.82
TDS (mg/l or g/m3):	232774.2	Carbonate:	0.0	0.	Calcium:	15857.0	791.27
Density (g/cm3, tonne/m3):	1.16	Sulfate:	887.0	18.47	Strontium:	440.0	10.04
Anion/Cation Ratio:	1	Phosphate:			Barium:	0.1	0.
		Borate:			Iron:	3.0	0.29
		Silicate:			Potassium:	1245.0	31.84
Carbon Dioxide:	240 PPM	Hydrogen Sulfide:		0 PPM	Aluminum:		
Oxygen:		pH at time of sampling:		7.07	Chromium:		
Comments:		pH at time of analysis:			Copper:		
		pH used in Calculation:		7.07	Lead:		
					Manganese:	0.200	0.01
					Nickel:		

Conditions		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Gauge Press.	Calcite CaCO ₃		Gypsum CaSO ₄ *2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄		CO ₂ Press
°F	psi	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	psi
80	0	0.83	4.20	0.00	3.08	0.04	33.62	0.05	21.57	-0.49	0.00	0.04
100	0	0.83	4.76	-0.07	0.00	0.03	27.18	0.03	12.89	-0.69	0.00	0.05
120	0	0.83	5.32	-0.13	0.00	0.05	41.47	0.02	9.53	-0.86	0.00	0.07
140	0	0.84	5.88	-0.18	0.00	0.09	71.16	0.03	10.65	-1.01	0.00	0.09

Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered.

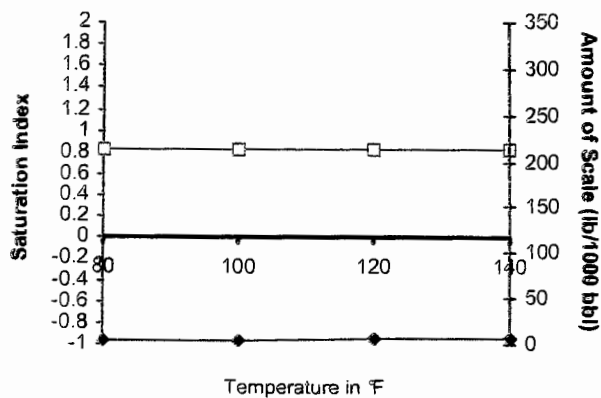
Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.

Note 3: The reported CO₂ pressure is actually the calculated CO₂ fugacity. It is usually nearly the same as the CO₂ partial pressure.

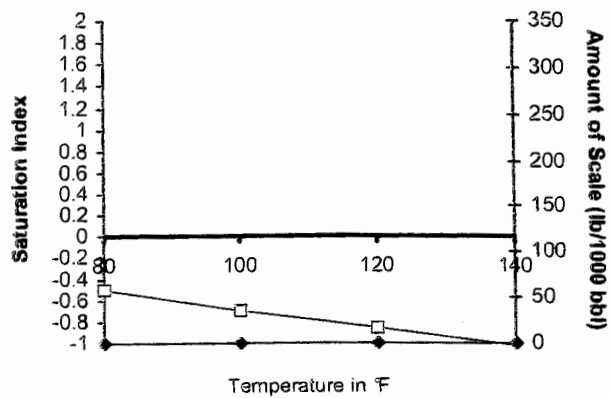
Scale Predictions from Baker Petrolite

Analysis of Sample 633542 @ 75 °F for DEVON ENERGY CORPORATION, 10/31/12

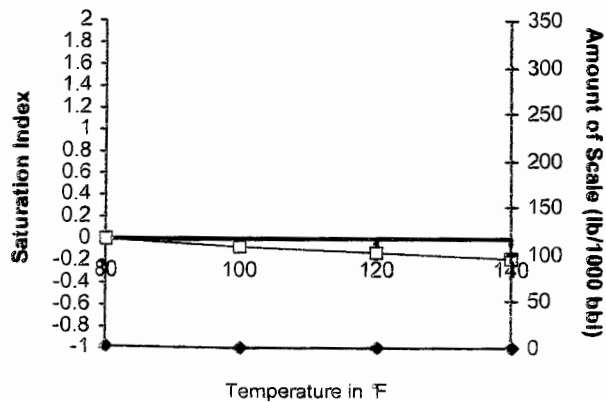
Calcite - CaCO_3



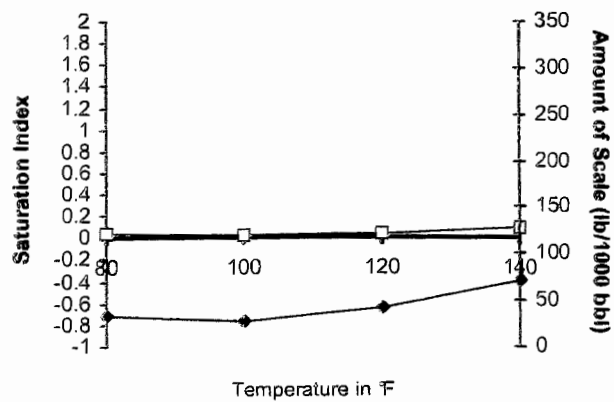
Barite - BaSO_4



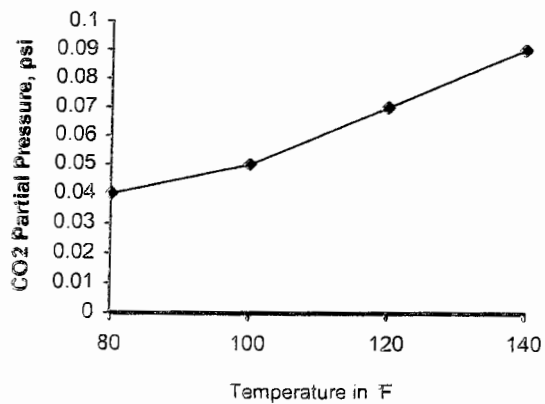
Gypsum - $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$



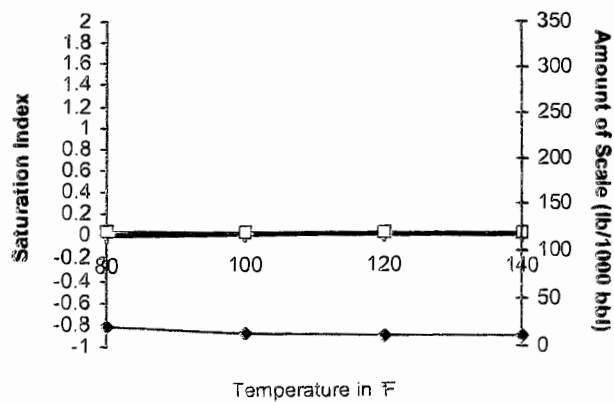
Anhydrite - CaSO_4



Carbon Dioxide Partial Pressure



Celestite - SrSO_4



**Cotton Draw Unit SWD 181
C108 Application for Injection
Injection Water Analysis
Bone Spring Formation
Devon Energy Production Co LP**

North Permian Basin Region
P. O. Box 740
Sundown, TX 79372-0740
(806) 229-8121
Lab Team Leader - Sheila Hernandez
(432) 495-7240

Water Analysis Report by Baker Petrolite

Company:	DEVON ENERGY CORPORATION	Sales RDT:	33521.1
Region:	PERMIAN BASIN	Account Manager:	GENE ROGERS (575) 910-1022
Area:	ARTESIA, NM	Sample #:	633540
Lease/Platform:	CAPELLA UNIT	Analysis ID #:	125780
Entity (or well #):	1	Analysis Cost:	\$90.00
Formation:	UNKNOWN		
Sample Point:	WELLHEAD		

Summary		Analysis of Sample 633540 @ 75 F					
Sampling Date:	10/19/12	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	10/31/12	Chloride:	120450.0	3397.46	Sodium:	62153.2	2703.51
Analyst:	SANDRA GOMEZ	Bicarbonate:	61.0	1.	Magnesium:	1705.0	140.26
TDS (mg/l or g/m3):	199313.2	Carbonate:	0.0	0.	Calcium:	10875.0	542.66
Density (g/cm3, tonne/m3):	1.142	Sulfate:	1966.0	40.93	Strontium:	431.0	9.84
Anion/Cation Ratio:	1	Phosphate:			Barium:	0.5	0.01
		Borate:			Iron:	33.0	1.19
		Silicate:			Potassium:	1637.0	41.86
Carbon Dioxide:	250 PPM	Hydrogen Sulfide:		0 PPM	Aluminum:		
Oxygen:		pH at time of sampling:		6.69	Chromium:		
Comments:		pH at time of analysis:			Copper:		
		pH used in Calculation:		6.69	Lead:		
					Manganese:	1.500	0.05
					Nickel:		

Conditions		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Gauge Press.	Calcite CaCO ₃		Gypsum CaSO ₄ ·2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄		CO ₂ Press
°F	psi	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	psi
80	0	0.21	1.16	0.21	402.17	0.23	344.60	0.47	167.23	0.63	0.29	0.08
100	0	0.27	1.74	0.14	287.31	0.23	339.39	0.44	161.74	0.44	0.29	0.1
120	0	0.33	2.03	0.08	177.94	0.25	363.40	0.43	159.42	0.27	0.00	0.12
140	0	0.38	2.60	0.03	77.54	0.29	409.12	0.43	159.42	0.12	0.00	0.15

Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered.

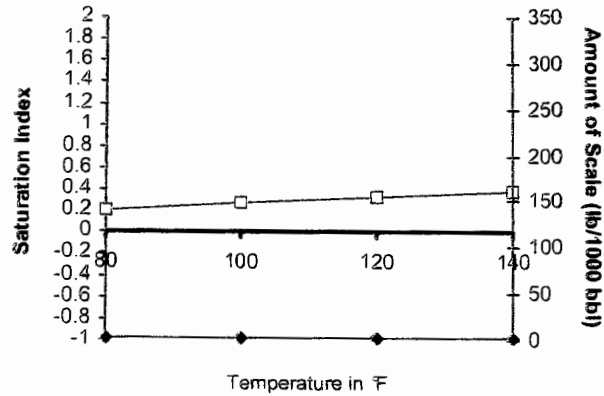
Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.

Note 3: The reported CO2 pressure is actually the calculated CO2 fugacity. It is usually nearly the same as the CO2 partial pressure.

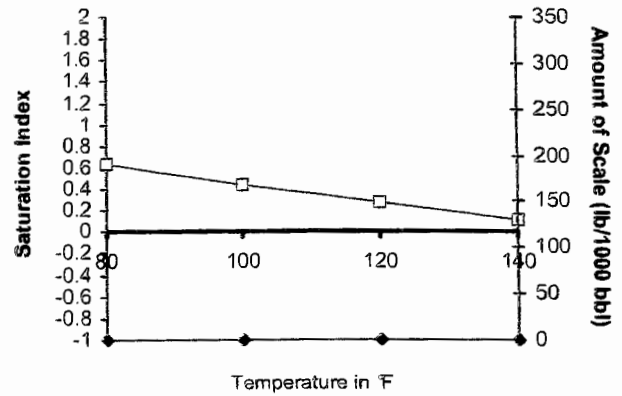
Scale Predictions from Baker Petrolite

Analysis of Sample 633540 @ 75 °F for DEVON ENERGY CORPORATION, 10/31/12

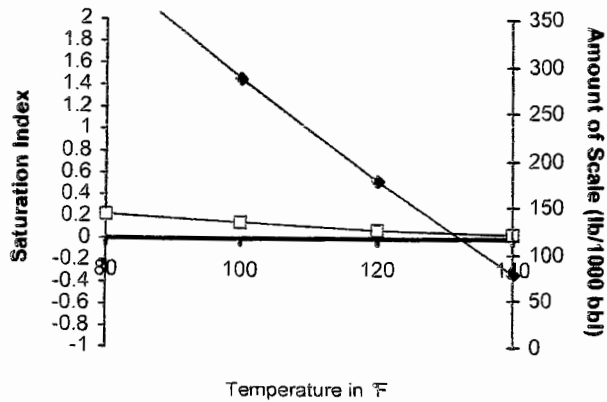
Calcite - CaCO_3



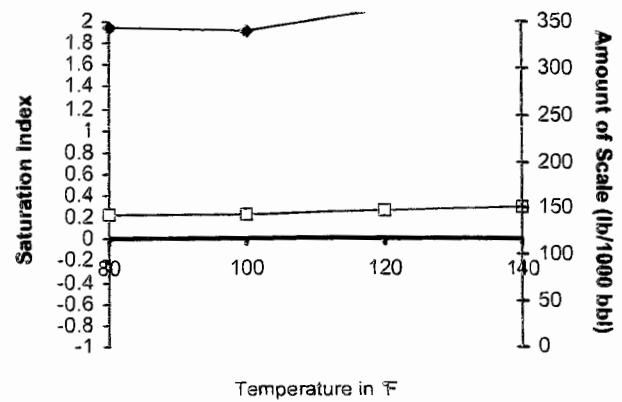
Barite - BaSO_4



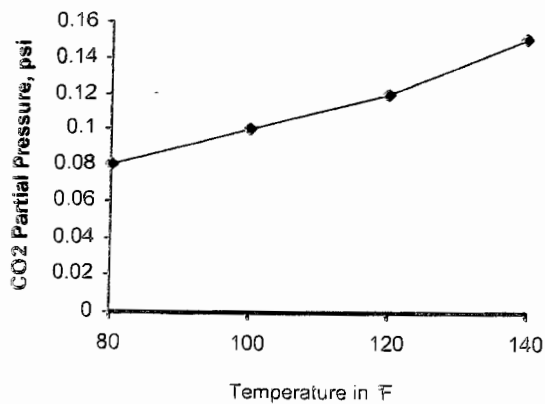
Gypsum - $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$



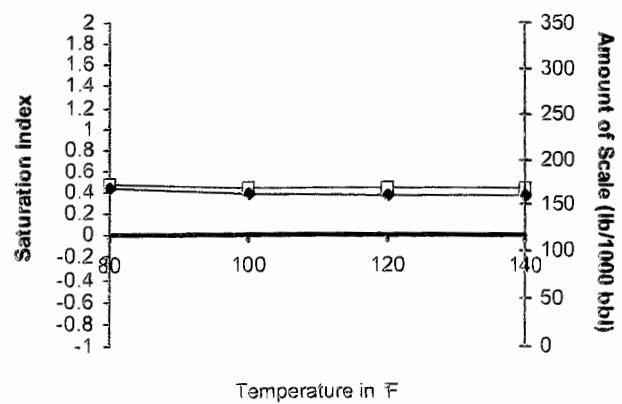
Anhydrite - CaSO_4



Carbon Dioxide Partial Pressure



Celestite - SrSO_4



**Cotton Draw Unit SWD 181
C108 Application for Injection
Injection Water Analysis
Delaware Formation
Devon Energy Production Co LP**

North Permian Basin Region
P O. Box 740
Sundown, TX 79372-0740
(806) 229-8121
Lab Team Leader - Sheila Hernandez
(432) 495-7240

Water Analysis Report by Baker Petrolite

Company:	DEVON ENERGY CORPORATION	Sales RDT:	33521.1
Region:	PERMIAN BASIN	Account Manager:	GENE ROGERS (575) 910-1022
Area:	ARTESIA, NM	Sample #:	633541
Lease/Platform:	BROWN BEAR	Analysis ID #:	125782
Entity (or well #):	1	Analysis Cost:	\$90.00
Formation:	UNKNOWN		
Sample Point:	WELLHEAD		

Summary		Analysis of Sample 633541 @ 75 °F					
Sampling Date:	10/19/12	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	10/31/12	Chloride:	52707.0	1486.67	Sodium:	23679.3	1029.95
Analyst:	SANDRA GOMEZ	Bicarbonate:	109.5	1.8	Magnesium:	1474.0	121.26
TDS (mg/l or g/m3):	85195.9	Carbonate:	0.0	0.	Calcium:	6421.0	320.41
Density (g/cm3, tonne/m3):	1.061	Sulfate:	77.0	1.8	Strontium:	161.0	3.87
Anion/Cation Ratio:	1	Phosphate:			Barium:	0.3	0.
		Borate:			Iron:	23.0	0.83
		Silicate:			Potassium:	542.0	13.86
Carbon Dioxide:	130 PPM	Hydrogen Sulfide:		0 PPM	Aluminum:		
Oxygen:		pH at time of sampling:		6.73	Chromium:		
Comments:		pH at time of analysis:			Copper:		
		pH used in Calculation:		6.73	Lead:		
					Manganese:	2.500	0.09
					Nickel:		

Conditions		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Gauge Press.	Calcite CaCO ₃		Gypsum CaSO ₄ ·2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄		CO ₂ Press
°F	psi	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	psi
80	0	0.21	2.90	-1.27	0.00	-1.30	0.00	-1.08	0.00	-0.71	0.00	0.15
100	0	0.29	4.19	-1.31	0.00	-1.28	0.00	-1.09	0.00	-0.88	0.00	0.19
120	0	0.38	5.80	-1.34	0.00	-1.22	0.00	-1.08	0.00	-1.03	0.00	0.24
140	0	0.47	7.41	-1.35	0.00	-1.15	0.00	-1.07	0.00	-1.16	0.00	0.29

Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered.

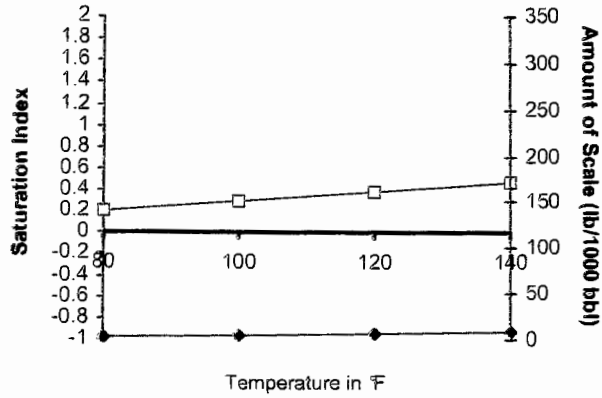
Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.

Note 3: The reported CO₂ pressure is actually the calculated CO₂ fugacity. It is usually nearly the same as the CO₂ partial pressure.

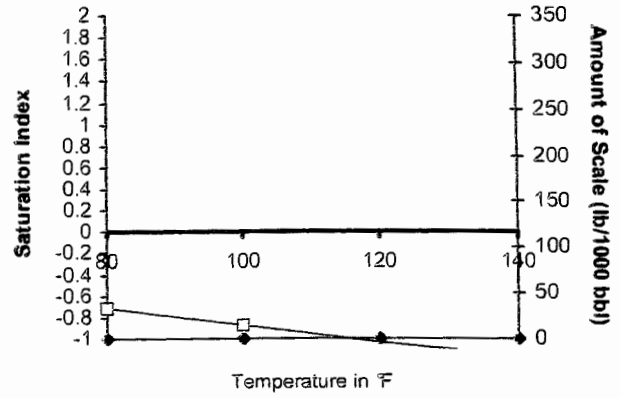
Scale Predictions from Baker Petrolite

Analysis of Sample 633541 @ 75 °F for DEVON ENERGY CORPORATION, 10/31/12

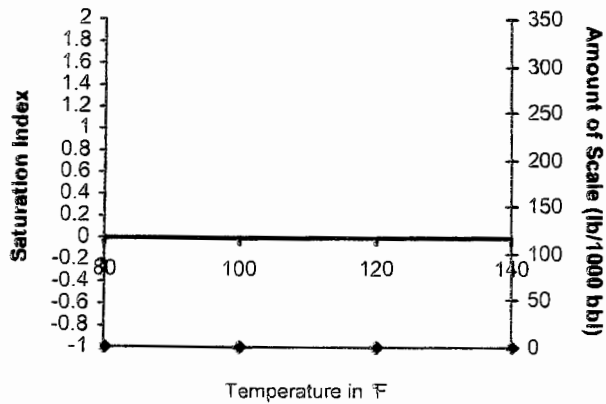
Calcite - CaCO_3



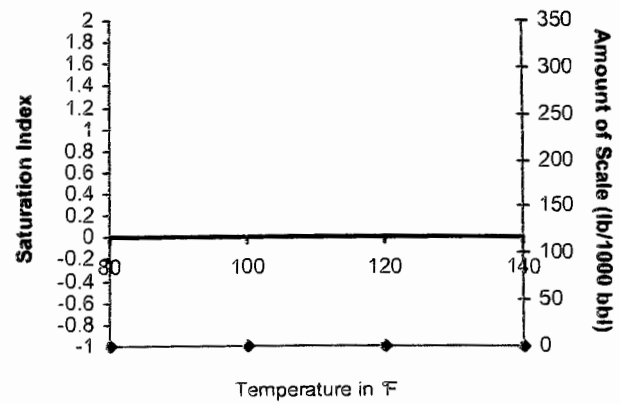
Barite - BaSO_4



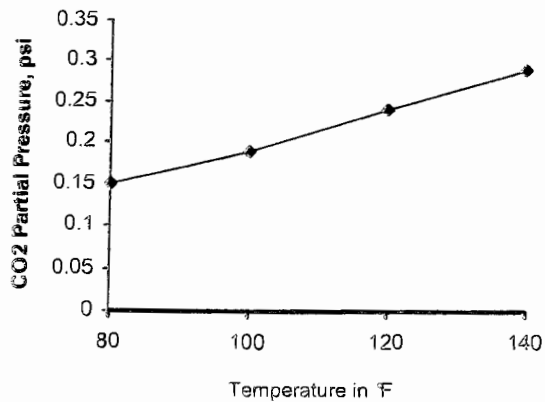
Gypsum - $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$



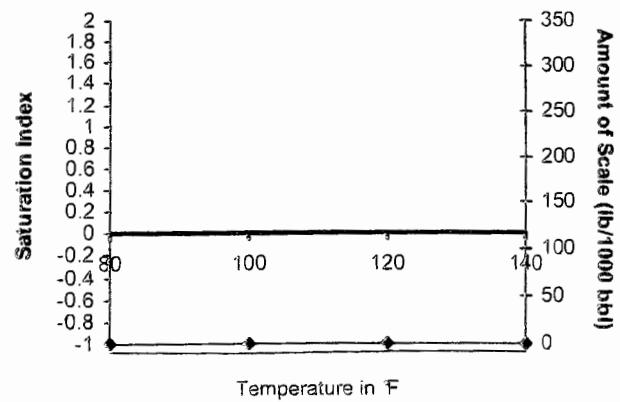
Anhydrite - CaSO_4

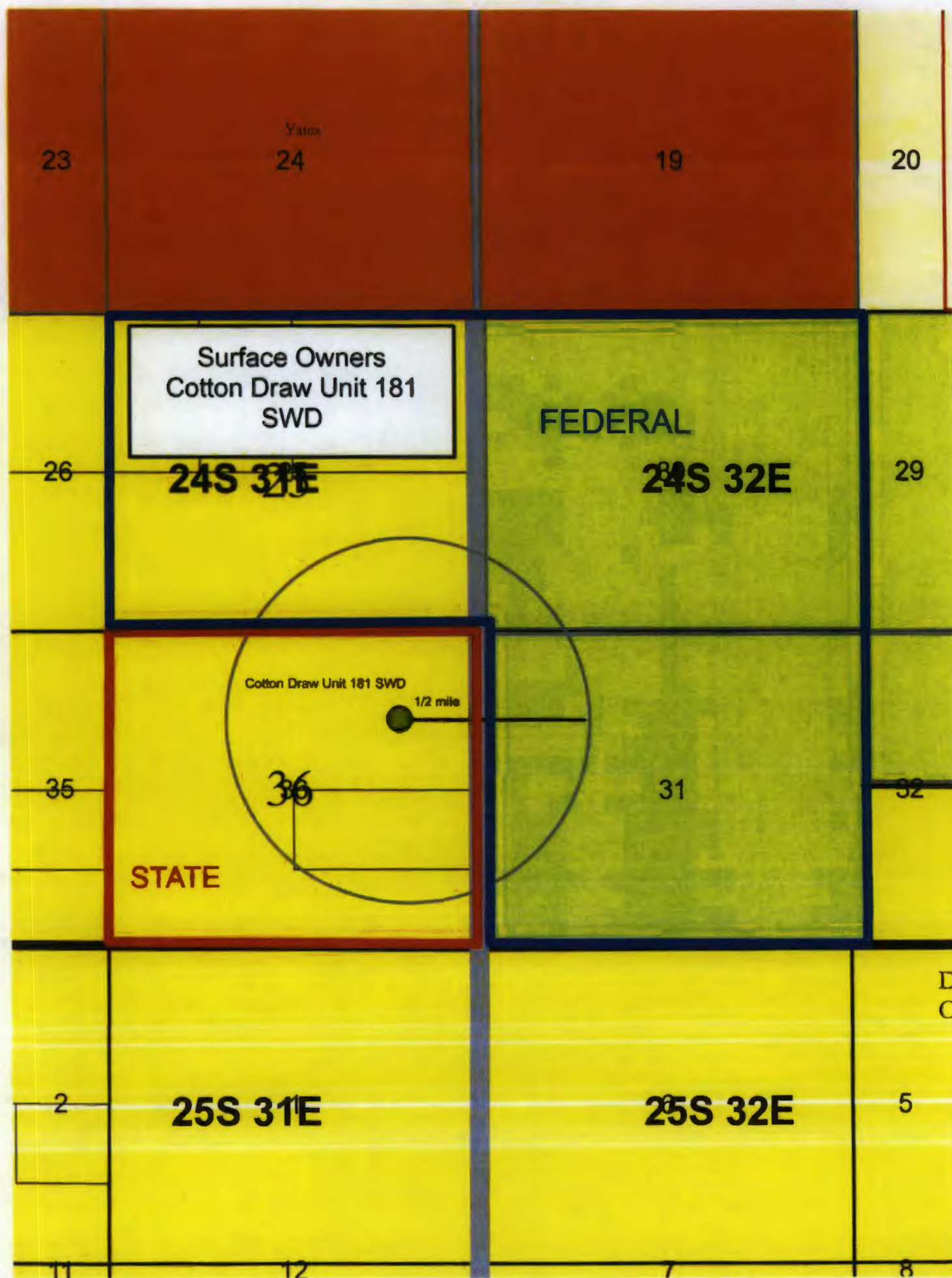


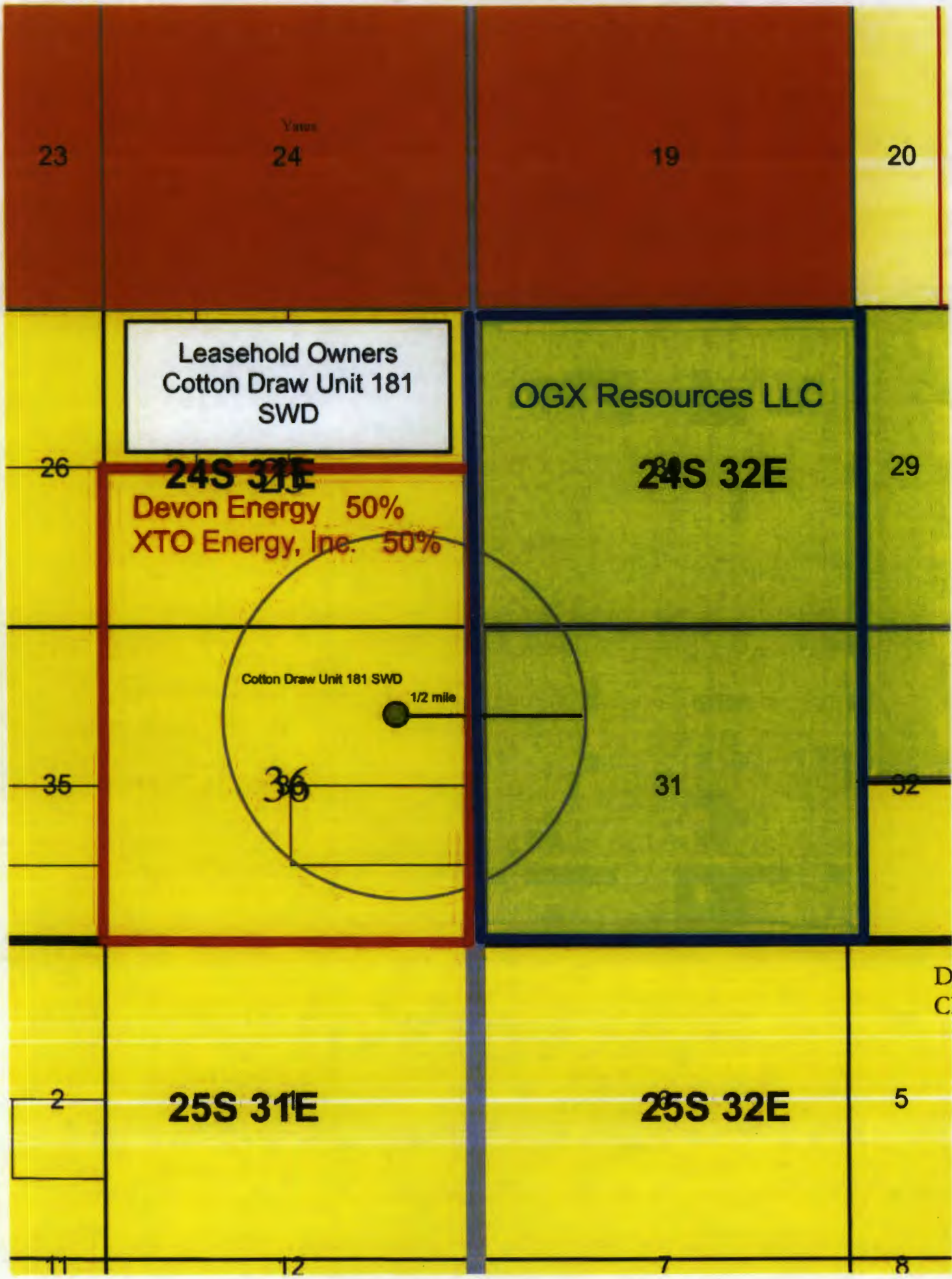
Carbon Dioxide Partial Pressure



Celestite - SrSO_4







Leasehold Ownership
½ Mile Cotton Draw Unit 181 SWD

24S-31E Section 25: S/2

- | | | |
|--|-------------------|------------|
| 1. Devon Energy Prod. Co., LP
20 N Broadway | Oklahoma City, OK | 73102-0000 |
| 2. XTO Energy, Inc.
810 Houston Street | Fort Worth, Texas | 76102-6298 |

24S-31E Section 36: All

- | | | |
|--|-------------------|------------|
| 1. Devon Energy Prod. Co., LP
20 N Broadway | Oklahoma City, OK | 73102-0000 |
| 2. XTO Energy, Inc.
810 Houston Street | Fort Worth, Texas | 76102-6298 |

24S-32E Section 30: All

- | | | |
|---|-------------|-------|
| 1. OGX Resources, LLC
P.O. Box 11148 | Midland, TX | 79702 |
|---|-------------|-------|

24S-32E Section 31: All

- | | | |
|---|-------------|-------|
| 1. OGX Resources, LLC
P.O. Box 11148 | Midland, TX | 79702 |
|---|-------------|-------|

24S-31E Section 36: All

APO

Devon Energy Prod Co LP	.500000
-------------------------	---------

XTO Energy, Inc.	.500000
------------------	---------

Total: 1.000000

Section XIV--Proof of Notice to Surface Land Owner
Devon Energy Prod Co LP
C108 Application For Injection
Proposed Well: Cotton Draw Unit #181 SWD

Proof of Notice to Surface Land Owner of well location site.

New Mexico State Land Office
Attn: Surface Division
310 Old Santa Fe Trail
Santa Fe, New Mexico 87501

Certified receipt No.
7008 1830 0002 7421 2575

A copy of this application has been mailed to the above surface land owner by certified mail, pertaining to Devon Energy's application for salt water disposal in the Cotton Draw Unit #181 SWD.

Date Mailed: 09/11/2013

Signature: [Handwritten Signature]

Stephanie A. Porter, Operations Technician
Devon Energy Production Co., L.P.
333 West Sheridan Avenue
Oklahoma City, OK 73102

Date: 09/11/2013

Section XIV--Proof of Notice to Leasehold Operators
Devon Energy Prod Co LP
C108 Application For Injection
Proposed Well: Cotton Draw Unit #181 SWD

Proof of Notice to Leasehold Operators within 1/2 mile of Cotton Draw Unit #181 SWD

OGX Resources, LLC
P.O. Box 11148
Midland, Texas 79702

Certified receipt No.
7008 1830 0002 7421 2544

XTO Energy, Inc.
810 Houston Street
Fort Worth, Texas 76102-6298

Certified receipt No.
7008-1830-0002-7421-2551

A copy of this application has been mailed to the above leasehold operators by certified mail, pertaining to Devon Energy's application for salt water disposal in the Cotton Draw Unit #181 SWD .

Date Mailed:

09/11/2013
[Signature]

Signature:

Stephanie A. Porter, Operations Technician
Devon Energy Production Co., L.P.
333 West Sheridan Avenue
Oklahoma City, OK 73102

Date:

09/11/2013

Affidavit of Publication

State of New Mexico,
County of Eddy, ss.

Kathy McCarroll, being first duly sworn,
on oath says:

That she is the Classified Supervisor of the Carlsbad Current-Argus, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the State wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof on the date as follows, to wit:

August 20 2013

That the cost of publication is \$62.07 and that payment thereof has been made and will be assessed as court costs.

Kathy McCarroll

Subscribed and sworn to before me this

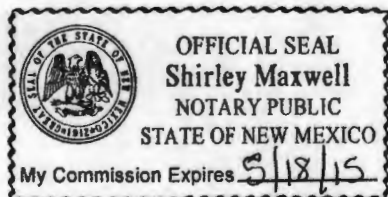
20th day of August, 2013

Shirley Maxwell

My commission Expires

May 18, 2015

Notary Public



August 20, 2013

Legal Notice

Devon Energy Production Company, LP, 333 West Sheridan Avenue, Oklahoma City, OK 73102-8260 has filed form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for an injection well. The proposed well, the Cotton

Draw Unit 181 SWD will be a new drill; proposed location is 1568' FNL & 1189' FEL, Section 36, Township 24 South, Range 31 East, in Eddy County, New Mexico. Disposal water will be sourced from area wells producing from the Bone Springs and/or Delaware formations. The disposal water will be injected into the Devonian/Silurian/Ordovician/Cambrian/Pre-Cambrian formation at a depth of 16,742' to 19,770', open hole, at a maximum surface pressure of 3348 psi and a maximum rate of 15,000 BWPD. Any interested party who has an objection to this must give notice in writing to the Oil Conservation Division, 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505, within (15) days of this notice. Any interested party with questions or comments may contact Trevor Klaassen at Devon Energy Corporation, 333 West Sheridan Avenue, Oklahoma City, OK 73102-8260, or call (405) 552-5069.



Devon Energy Corporation
333 West Sheridan
Oklahoma City, OK 73102-8260

405 235 3611 Phone
www.devonenergy.com

September 11th, 2013

Commissioner of Public Lands
State of New Mexico
310 Old Santa Fe Trail
Santa Fe, New Mexico 87501

RE: Form C-108, Application for Authorization to Inject
Cotton Draw Unit #181 SWD; API # 30-015-
Eddy County, NM
Section 36, T24S, R31E; 1568' FNL & 1189' FEL

Dear Sir or Madam:

Please find attached Devon Energy Production Company, LP's Form C-108, Application for Authorization to Inject.

Devon's application proposes to drill and convert the Cotton Draw Unit #181 SWD to salt water disposal. Produced waters will be injected into the Devonian/Silurian/Ordovician/Cambrian/Pre-Cambrian from 16,742' to 19,770'.

As a requirement of the New Mexico Oil Conservation Division, we are notifying you because you have been identified as the well site surface land owner. Any objections must be submitted in writing to NMOCD, 1220 South St. Francis Drive, Santa Fe, New Mexico 87505. Objections must be received within (15) days of receipt of this letter.

If you have any questions, please contact Trevor Klaassen at (405)-552-5069 or myself at (405)-552-7802.

Sincerely,

A handwritten signature in black ink, appearing to read "Stephanie A. Porter".

Stephanie A. Porter
Operations Technician

SP/sp
Enclosure



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

405 235 3611 Phone
www.devonenergy.com

September 11th, 2013

Oil Conservation Division
811 S. First Street
Artesia, New Mexico 88210

RE: Form C-108, Application for Authorization to Inject
Cotton Draw Unit #181 SWD; API # 30-015-
Eddy County, NM
Section 36, T24S, R31E

Dear Conservation Division-Artesia District Office:

Please find attached Devon Energy Production Company, LP's Form C-108, Application for Authorization to Inject. The original application has been filed with the Oil Conservation Division-Santa Fe Office.

Devon's application proposes to drill and convert the Cotton Draw Unit #181 SWD to salt water disposal in the Devonian/Silurian/Ordovician/Cambrian/Pre-Cambrian formation.

The surface land owner and operators with leasehold ownership have been notified with Devon's application to inject via certified mail.

If you have any questions, please contact Trevor Klaassen at (405)-552-5069 or myself at (405)-552-7802.

Sincerely,

A handwritten signature in black ink, appearing to read "Steph A. Porter", written over a faint, larger signature.

Stephanie A. Porter
Operations Technician

SP/sp
Enclosure



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

405 235 3611 Phone
www.devonenergy.com

September 11th, 2013

OGX Resources, LLC
P.O. Box 11148
Midland, Texas 79702

RE: Form C-108, Application for Authorization to Inject
Cotton Draw Unit #181 SWD; API #30-015-
Eddy County, NM
Section 36, T24S, R31E

Dear OGX Resources, LLC:

Please find attached Devon Energy Production Company, LP's Form C-108; Application for Authorization to Inject.

Devon's application proposes to drill and convert the Cotton Draw Unit #181 SWD to salt water disposal in the Devonian/Silurian/Ordovician/Cambrian/Pre-Cambrian formation.

As a requirement of the New Mexico Oil Conservation Division, we are notifying you because you have been identified as having leasehold ownership within the ½ mile review area around the Cotton Draw Unit #181 SWD well. Any objections must be submitted in writing to NMOCD, 1220 South St. Francis Drive, Santa Fe, New Mexico 87505. Objections must be received within (15) days of receipt of this letter.

If you have any questions, please contact Trevor Klaassen (405)-552-5069 or myself at (405)-552-7802.

Sincerely,

A handwritten signature in black ink, appearing to read "S. Porter", with a stylized flourish at the end.

Stephanie A. Porter
Operations Technician

SP/sp
Enclosure



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

405 235 3611 Phone
www.devonenergy.com

September 11th, 2013

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

RE: Form C-108, Application for Authorization to Inject
Cotton Draw Unit #181 SWD; API # 30-015-
Eddy County, NM
Section 36, T24S, R31E

Dear Santa Fe Oil Conservation Division:

Please find attached Devon Energy Production Company, LP's Form C-108, Application for Authorization to Inject. Devon's application proposes to drill and convert the Cotton Draw Unit #181 SWD to salt water disposal in the Devonian/Silurian/Ordovician/Cambrian/Pre-Cambrian formation.

The surface land owner and operators with leasehold ownership have been notified with Devon's application to inject via certified mail. A copy of this application has been filed with the OCD-Artesia office.

If you have any questions, please contact Trevor Klaassen at (405)-552-5069 or myself at (405)-552-7802.

Sincerely,

A handwritten signature in black ink, appearing to read "A. Porter", with a large, stylized "A" and a long horizontal stroke extending to the right.

Stephanie A. Porter
Operations Technician

SP/sp
Enclosure



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

405 235 3611 Phone
www.devonenergy.com

September 11th, 2013

XTO Energy, Inc.
810 Houston Street
Midland, Texas 76102-6298

RE: Form C-108, Application for Authorization to Inject
Cotton Draw Unit #181 SWD; API #30-015-
Eddy County, NM
Section 36, T24S, R31E

Dear OGX Resources, LLC:

Please find attached Devon Energy Production Company, LP's Form C-108; Application for Authorization to Inject.

Devon's application proposes to drill and convert the Cotton Draw Unit #181 SWD to salt water disposal in the Devonian/Silurian/Ordovician/Cambrian/Pre-Cambrian formation.

As a requirement of the New Mexico Oil Conservation Division, we are notifying you because you have been identified as having leasehold ownership within the ½ mile review area around the Cotton Draw Unit #181 SWD well. Any objections must be submitted in writing to NMOCD, 1220 South St. Francis Drive, Santa Fe, New Mexico 87505. Objections must be received within (15) days of receipt of this letter.

If you have any questions, please contact Trevor Klaassen (405)-552-5069 or myself at (405)-552-7802.

Sincerely,

A handwritten signature in black ink, appearing to read "Stephanie A. Porter".

Stephanie A. Porter
Operations Technician

SP/sp
Enclosure

District I1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-8161 Fax:(575) 393-0720**District II**811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720**District III**1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-8178 Fax:(505) 334-8170**District IV**1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural
Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-101
Revised July 18, 2013

Permit 173084

**APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE**

1. Operator Name and Address DEVON ENERGY PRODUCTION COMPANY, LP 333 W. Sheridan Avenue Oklahoma City, OK 73102		2. OGRID Number 6137
		3. API Number
4. Property Code	5. Property Name Cotton Draw Unit SWD	6. Well No. 181

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
H	36	24S	31E	H	1568	N	1189	E	EDDY

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
H	36	24S	31E	H	1568	N	1189	E	Eddy

9. Pool Information

SWD;DEVONIAN	96101
--------------	-------

Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3511
16. Multiple N	17. Proposed Depth 19770	18. Formation Devonian	19. Contractor	20. Spud Date 10/1/2013
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits**21. Proposed Casing and Cement Program**

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	26	20	94	750	1750	0
Int1	17.5	13.375	68	4400	1910	0
Int2	12.25	9.625	47	11650	1930	3500
Prod	8.5	7	32	16742	800	10500
Surf	5.875			19770		

Casing/Cement Program: Additional Comments

20" Surface: Tail: 1750 sx Cl C Cmt +2% CACI2 +3#Koi seal/sk @ 14.8 ppg, Yld: 1.33 cf/sk, TOC @ Surf. 13-3/8" 1st Inter: Lead: 1360 sx Cl C Cmt + 2% bwoc CACI2 + 0.125 lbs/sk Poly-E-Flake + 4% bwoc Bent + 70.1% FW, 12.9 ppg, Yld: 1.85 cf/sk, TOC @ surf, Tail: 550 sx Cl C Cmt + 2% bwoc CACI2, Yld: 1.33 cf/sk 9-5/8" 2nd Inter: Lead: 1460 sx (65:35) Cl C Cmt:Poz (Fly Ash): + 5% bwow NACI + 0.125 lbs/sk Poly-E-Flake + 6% bwoc Bent + 70.9% FW, 11.5 ppg, Yld: 2.57 cf/sk, TOC @ 3500, Tail: 470 sx Cl C Cmt + 0.125 lbs/sk Poly-E-Flake + 63.5% Wtr, 14.4 ppg, Yld: 1.33 cf/sk, 7" Prod: Tail: 800 sx (50:50) Cl H Cmt:Poz (Fly Ash) + 1 lb/sk NACI + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.1% bwoc HR-601 + 2% bwoc Bent + 58.8% FW, 14.5 ppg, Yld: 1.22 cf/sk TOC for All Strings: Surface: 0, 1st Intermediate: 0, 2nd Intermediate: 3,500, Production: 10,500' ft Note: This will be an open hole completion, thus the hole interval is deeper than the 7" production casing depth.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	5000	5000	

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.
 I further certify I have complied with 19.15.14.9 (A) NMAC ☐ and/or 19.15.14.9 (B) NMAC ☐, if applicable.

OIL CONSERVATION DIVISION

Signature:

Printed Name:

Title:

Email Address:

Date:

Approved By:

Title:

Approved Date:

Expiration Date:

Conditions of Approval Attached

District I1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720**District II**811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720**District III**1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-8178 Fax:(505) 334-6170**District IV**1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 478-3470 Fax:(505) 478-3462

State of New Mexico
Energy, Minerals and Natural
Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-102
August 1, 2011

Permit 173084

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number	2. Pool Code 96101	3. Pool Name SWD;DEVONIAN
4. Property Code	5. Property Name Cotton Draw Unit SWD	6. Well No. 181
7. OGRID No. 6137	8. Operator Name DEVON ENERGY PRODUCTION COMPANY, LP	9. Elevation 3511

10. Surface Location

UL - Lot H	Section 36	Township 24S	Range 31E	Lot Idn	Feet From 1568	N/S Line N	Feet From 1189	E/W Line E	County
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11. Bottom Hole Location If Different From Surface

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
12. Dedicated Acres 40.00	13. Joint or Infill		14. Consolidation Code		15. Order No.				

**NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION**

	OPERATOR CERTIFICATION	
	<i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location(s) or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i>	
	E-Signed By: Title: Date:	
	SURVEYOR CERTIFICATION	
<i>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.</i>		
Surveyed By: Frank Jaramillo Date of Survey: 8/2/2013 Certificate Number: 12797		

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6181 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1263 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3482

State of New Mexico
Energy, Minerals and Natural
Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form APD Conditions

Permit 173084

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: DEVON ENERGY PRODUCTION COMPANY, LP [6137] 333 W. Sheridan Avenue Oklahoma City, OK 73102	API Number:
	Well: Cotton Draw Unit SWD #181
OCD Reviewer	Condition

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-8161 Fax:(575) 393-0720

District II

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District III

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Phone:(505) 476-3470 Fax:(505) 476-3482

**State of New Mexico
Energy, Minerals and Natural
Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505**

Form APD Comments

Permit 173084

PERMIT COMMENTS

Operator Name and Address: DEVON ENERGY PRODUCTION COMPANY, LP [6137]	API Number:
	Well: Cotton Draw Unit SWD #181

Created By	Comment	Comment Date
priechers	The BOP system used to drill the 26" hole will consist of a 30" 2M Annular preventer. The BOP system will be tested as per BLM Onshore Oil and Gas Order 2 as a 2M system prior to drilling out the casing shoe. The BOP system used to drill the 17-1/2" hole will consist of a 20" 2M Annular preventer. The BOP system will be tested as per BLM Onshore Oil and Gas Order 2 as a 2M system prior to drilling out the casing shoe. The BOP system used to drill the 12-1/4" and 8-1/2" holes will consist of a 13-5/8" 5M Double Ram and Annular preventer. The BOP system will be tested as per BLM Onshore Oil	9/10/2013
priechers	The BOP system used to drill the 12-1/4" and 8-1/2" holes will consist of a 13-5/8" 5M Double Ram and Annular preventer. The BOP system will be tested as per BLM Onshore Oil and Gas Order 2 as a 5M system prior to drilling out the casing shoe.	9/10/2013
priechers	The BOP system used to drill the 12-1/4" and 8-1/2" holes will consist of a 13-5/8" 5M Double Ram and Annular preventer. The BOP system will be tested as per BLM Onshore Oil and Gas Order 2 as a 5M system prior to drilling out the casing shoe.	9/10/2013
priechers	The BOP system used to drill the 12-1/4" and 8-1/2" holes will consist of a 13-5/8" 5M Double Ram and Annular preventer. The BOP system will be tested as per BLM Onshore Oil and Gas Order 2 as a 5M system prior to drilling out the casing shoe.	9/10/2013
priechers	The pipe rams will be operated and checked as per Onshore Order No 2. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and annular preventer, additional BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at 5,000 psi WP.	9/10/2013

District I
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District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3467

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code	³ Pool Name
		Devonian, SWD
⁴ Property Code	⁵ Property Name	⁶ Well Number
	COTTON DRAW UNIT SWD	181
⁷ OGRID No.	⁸ Operator Name	⁹ Elevation
6137	DEVON ENERGY PRODUCTION COMPANY, L.P.	3511.3

¹⁰ Surface Location

U.L. or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	36	24 S	31 E		1568	NORTH	1189	EAST	EDDY

¹¹ Bottom Hole Location If Different From Surface

U.L. or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						

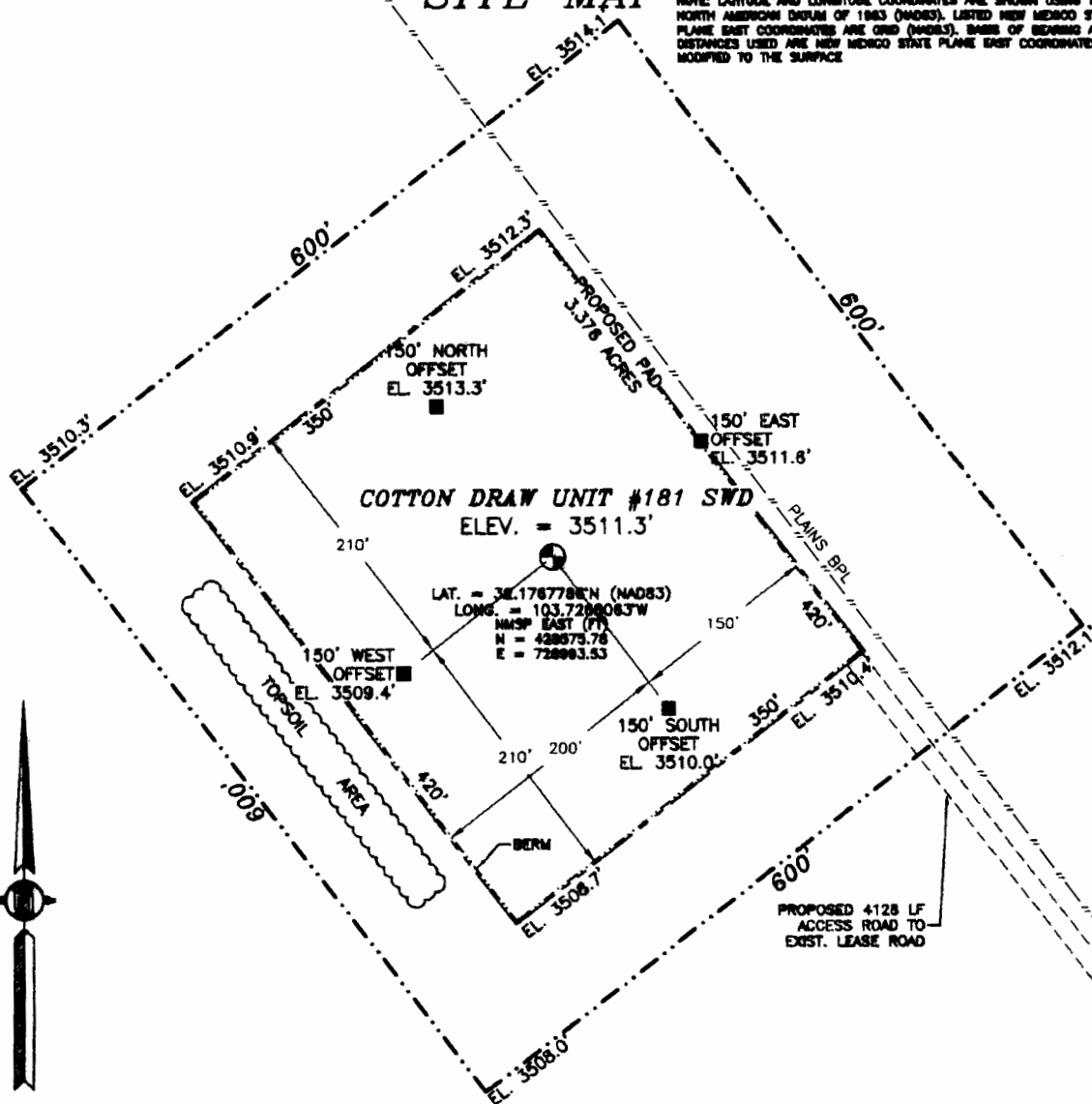
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

<p>N89°39'31"E 2641.29 FT</p> <p>NW CORNER SEC. 36 LAT. = 32.1810843°N LONG. = 103.7400380°W NMSP EAST (FT) N = 430119.30 E = 724891.03</p> <p>N Q CORNER SEC. 36 LAT. = 32.1810872°N LONG. = 103.7315028°W NMSP EAST (FT) N = 430135.04 E = 727531.69</p> <p>NE CORNER SEC. 36 LAT. = 32.1810898°N LONG. = 103.7229679°W NMSP EAST (FT) N = 430150.88 E = 730172.25</p> <p>W Q CORNER SEC. 36 LAT. = 32.1738255°N LONG. = 103.7400604°W NMSP EAST (FT) N = 427478.61 E = 724898.64</p> <p>SW CORNER SEC. 36 LAT. = 32.1666604°N LONG. = 103.7400852°W NMSP EAST (FT) N = 424872.03 E = 724905.34</p> <p>S Q CORNER SEC. 36 LAT. = 32.1666199°N LONG. = 103.7315230°W NMSP EAST (FT) N = 424872.00 E = 727554.88</p> <p>SE CORNER SEC. 36 LAT. = 32.1665815°N LONG. = 103.7229565°W NMSP EAST (FT) N = 424872.96 E = 730205.72</p> <p>NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83). LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE.</p>		<p>17 OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unreleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>Patti Riechers</i> 09/10/2013 Signature Date Patti Riechers, Regulatory Specialist Printed Name patti.riechers@dvn.com E-mail Address</p> <p>18 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>AUGUST 2, 2013 Date of Survey</p> <p><i>[Signature]</i> Professional Surveyor Certificate Number 11400 PL 12797 SI RAY NO. 2181</p>
--	--	--

SECTION 36, TOWNSHIP 24 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

SITE MAP

NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83). LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (MDS). BASE OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE



0 12 60 120 240

SCALE 1" = 120'

DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF STATE HIGHWAY 1 (ORLA HIGHWAY) AND MONSANTO ROAD GO WEST ON MONSANTO ROAD APPROX. 2.1 MILES, ROAD TURNS RIGHT (NORTH) GO NORTH APPROX. 0.9 MILES, ROAD TURNS LEFT (WEST) GO WEST APPROX. 2.0 MILES, ROAD TURNS RIGHT (NORTH) GO NORTH APPROX. 1.8 MILES, ROAD TURNS LEFT (WEST) GO WEST APPROX. 0.3 MILES, ROAD TURNS RIGHT (NORTH) GO NORTH CROSS CATTLE GUARD APPROX. 0.4 MILES, TURN RIGHT (EAST) GO EAST APPROX. 1.2 MILES TO EXISTING DEVON COTTON DRAW UNIT #1184. CENTERLINE OF PROPOSED ROAD STARTS ON THE SOUTH EDGE OF PAD, GO EAST APPROX. 400' AND TURN LEFT (NORTH) ON EAST EDGE OF PAD, CENTERLINE PROPOSED ROAD GOES (NORTH) APPROX. 8.5 MILES, ROAD TURNS LEFT (NORTHWEST) PARALLELING PIPELINE APPROX. 0.2 MILES TO LOCATION.

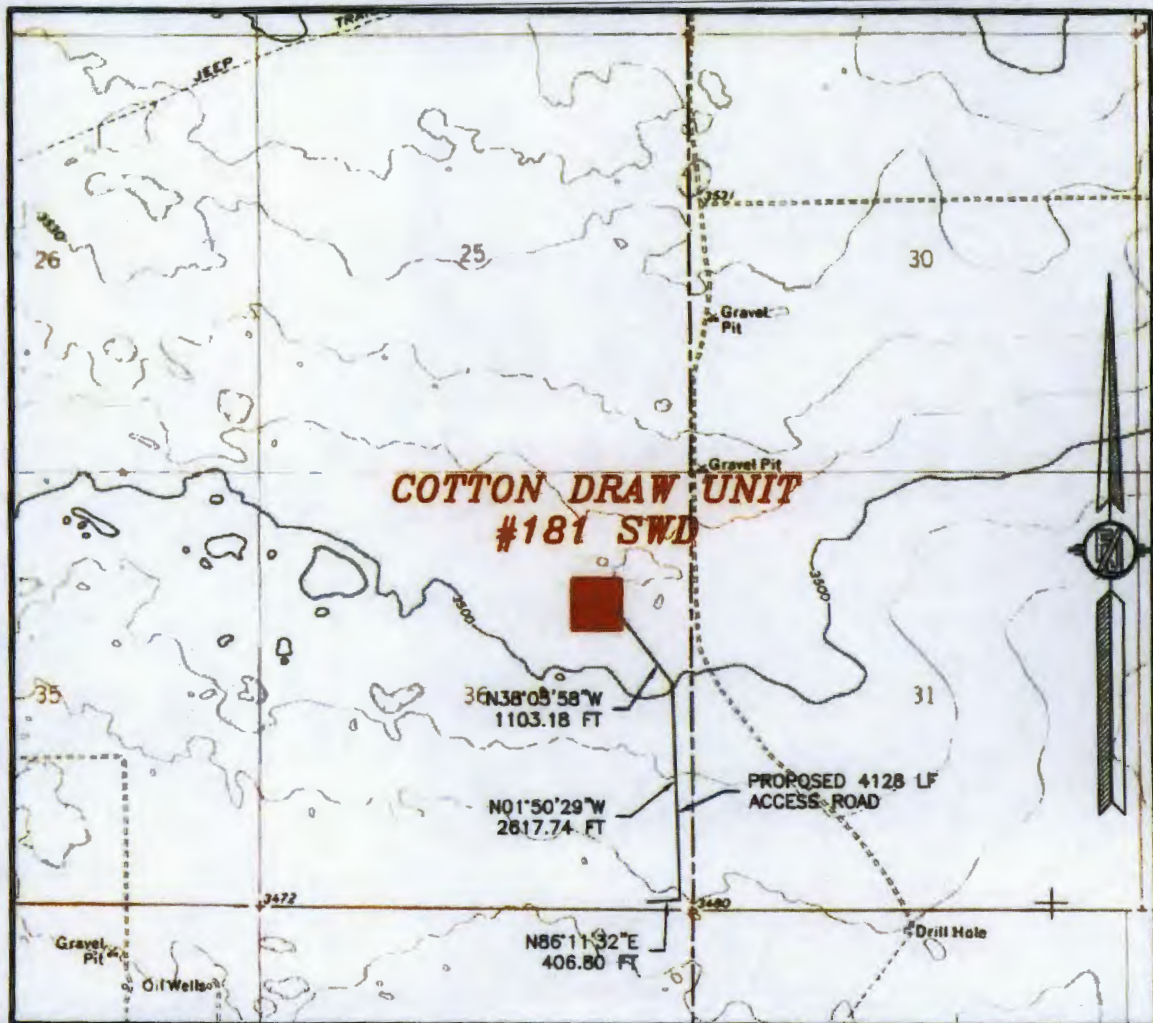
DEVON ENERGY PRODUCTION COMPANY, L.P.
COTTON DRAW UNIT #181 SWD
LOCATED 1568 FT. FROM THE NORTH LINE
AND 1189 FT. FROM THE EAST LINE OF
SECTION 36, TOWNSHIP 24 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

AUGUST 2, 2013

SURVEY NO. 2181

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 36, TOWNSHIP 24 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
LOCATION VERIFICATION MAP



USGS QUAD MAP:
PADUCA BREAKS NW

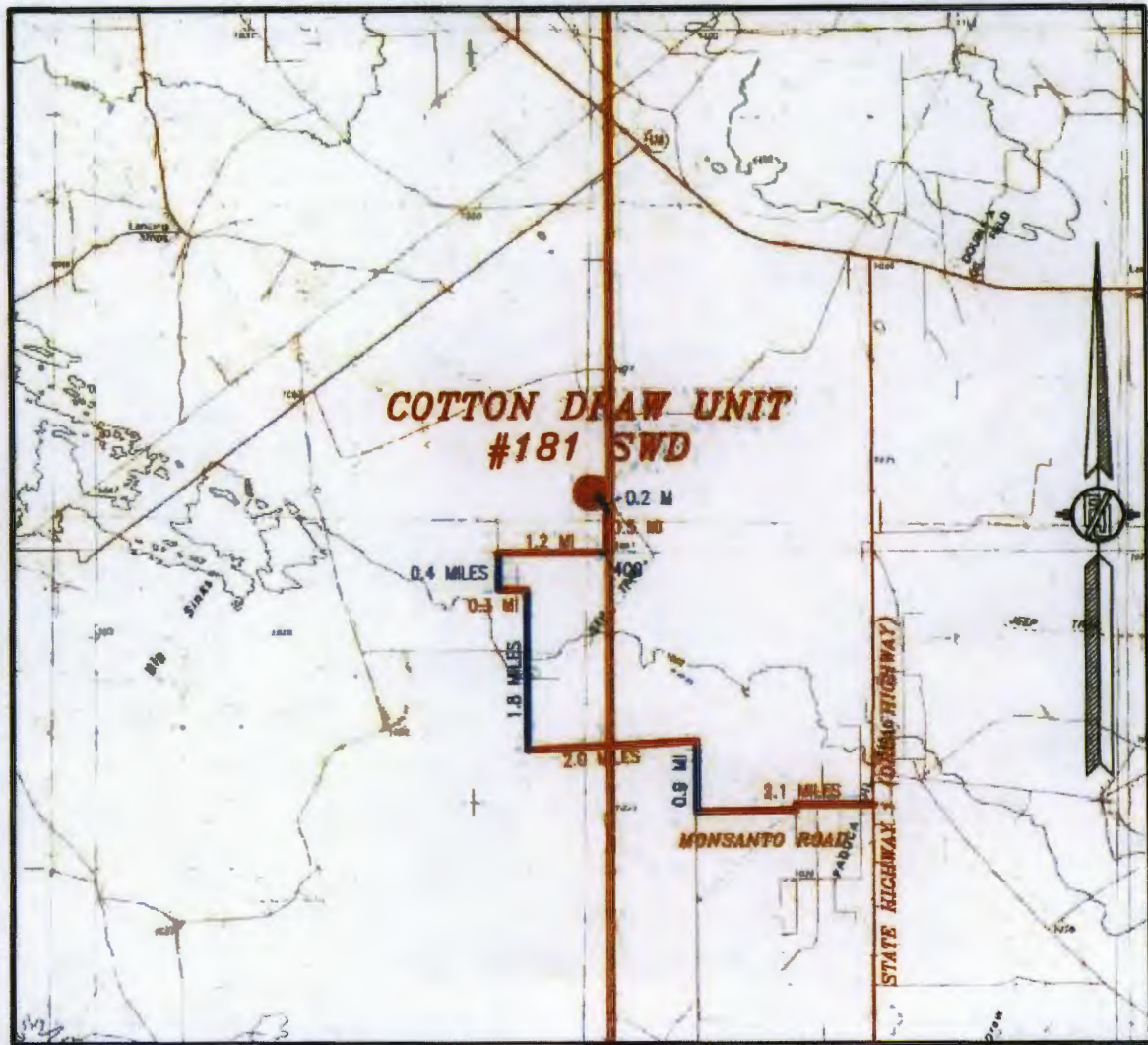
NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.
COTTON DRAW UNIT #181 SWD
LOCATED 1568 FT. FROM THE NORTH LINE
AND 1189 FT. FROM THE EAST LINE OF
SECTION 36, TOWNSHIP 24 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

AUGUST 2, 2013

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO SURVEY NO. 2181

SECTION 36, TOWNSHIP 24 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
VICINITY MAP



NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.

COTTON DRAW UNIT #181 SWD

LOCATED 1568 FT. FROM THE NORTH LINE
AND 1189 FT. FROM THE EAST LINE OF
SECTION 36, TOWNSHIP 24 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

AUGUST 2, 2013

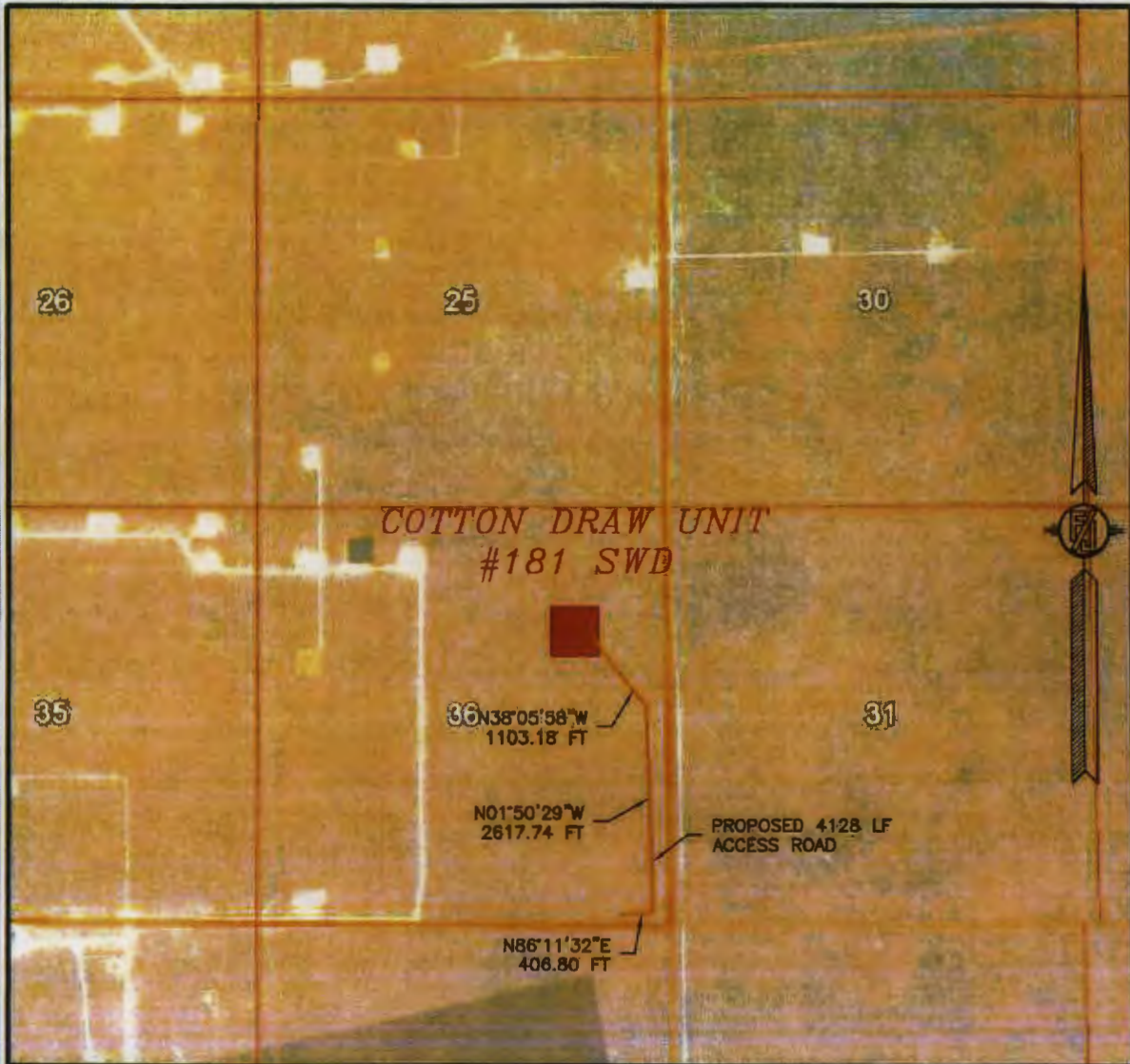
DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF STATE HIGHWAY 1 (ORLA HIGHWAY) AND MONSANTO ROAD GO WEST ON MONSANTO ROAD APPROX. 2.1 MILES, ROAD TURNS RIGHT (NORTH) GO NORTH APPROX. 0.9 MILES, ROAD TURNS LEFT (WEST) GO WEST APPROX. 2.0 MILES, ROAD TURNS RIGHT (NORTH) GO NORTH APPROX. 1.8 MILES, ROAD TURNS LEFT (WEST) GO WEST APPROX. 0.3 MILES, ROAD TURNS RIGHT (NORTH) GO NORTH CROSS CATTLE GUARD APPROX. 0.4 MILES, TURN RIGHT (EAST) GO EAST APPROX. 1.2 MILES TO EXISTING DEVON COTTON DRAW UNIT #116H. CENTERLINE OF PROPOSED ROAD STARTS ON THE SOUTH EDGE OF PAD, GO EAST APPROX. 400' AND TURN LEFT (NORTH) ON EAST EDGE OF PAD, CENTERLINE PROPOSED ROAD GOES (NORTH) APPROX. 0.5 MILES, ROAD TURNS LEFT (NORTHWEST) PARALLELING PIPELINE APPROX. 0.2 MILES TO LOCATION.

SURVEY NO. 2181

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 36, TOWNSHIP 24 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
AERIAL PHOTO



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
MARCH 2012

DEVON ENERGY PRODUCTION COMPANY, L.P.
COTTON DRAW UNIT #181 SWD
LOCATED 1568 FT. FROM THE NORTH LINE
AND 1189 FT. FROM THE EAST LINE OF
SECTION 36, TOWNSHIP 24 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

AUGUST 2, 2013

SURVEY NO. 2181

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO



Devon Energy Corporation
333 W. Sheridan Ave.
Oklahoma City, OK 73102-8260

Page
1
405 235 3611 Phone
www.devonenergy.com

Revised & Re-Submitted 07/11/2013

District Manager
Bureau of Land Management
620 East Greene Street
Carlsbad, New Mexico 88220

The Commissioner of Public Lands
State of New Mexico
Post Office Box 1148
Santa Fe, New Mexico 87504-1148



RE: **Cotton Draw Unit #14-08-001-5247**
Eddy and Lea County, New Mexico
Plan of Development and Operation for 2013 – Updated July 2013

Devon Energy Production Company, L.P. ("Devon"), as unit operator for the Cotton Draw Unit Area, pursuant to the provisions of Section 10 of the Unit Agreement of Development and Operation of the Cotton Draw Unit Area Dated April 21, 1958, No.14-08-001-5247, respectfully submits for the approval of the District Manager, Bureau of Land Management, or his duly authorized representative, and the Commissioner of Public Lands, this Plan of Development and Operation for the Cotton Draw Unit Area. This plan is for the period January 1, 2013, to January 1, 2014. It is understood that approval of this Plan of Development does not constitute approval of the work covered by the plan. Individual approval is still required for such items as APDs/ROWs, etc.

2013 Planned New Drill and Complete wells

<u>Well Name</u>	<u>API No.</u>	<u>Location-UL-Sec-T-R</u>	<u>Estimated Spud Date</u>
CDU 116H	30-015-37926	330' FSL & 430' FEL surface P-36-T24S-R31E 330' FNL & 430' FEL bottom hole A-25-T24S-R31E	Drilled
CDU 117H	30-015-38434	160' FSL & 1,980' FEL O-34-T24S-R31E 660' FNL & 1,980' FEL B-34-T24S-R31E	July 2013, Horizontal Bone Spring
CDU 122H	30-015-38453	160' FNL & 1,345' FWL surface C-35-T24S-R31E 330' FSL & 1,650' FWL bottom hole N-35-T24S-R31E	Drilled
CDU 125H	30-015-38608	160' FNL & 1,345' FEL surface B-35-24S-31E 330' SL & 1,650' FEL bottom hole O-35-24S-31E	Drilled
CDU 164H	30-015-39736	330' FNL & 1,980' FEL surface B-11-T25S-R31E 330' FSL & 1,980' FEL bottom	Drilled

CDU 164H cont		hole O-11-T25S-R31E	
CDU 165H	30-015-40824	25' FNL & 1,780' FEL surface 2-36-T24S-R31E 330' FSL & 1,880' FEL bottom hole O-36-T24S-R31E	July 2014, Horizontal Delaware
CDU 166H	30-015-41228	25' FSL & 1,780' FEL surface O-25-24S-R31E 330' FNL & 1,880' FEL bottom hole B-25-T24S-R31E	August 2014, Horizontal Delaware
CDU 167H	30-015-41385	330' FSL & 2,235' FWL surface 2-36-T24S-R31E 2,310' FSL & 2,200' FWL bottom hole K-25-T24S-R31E	July 2013, Horizontal Delaware
CDU 168H	30-015-40850	330' FNL & 1,345' FEL surface 2-2-T25S-R31E 330' FSL & 1,980' FEL bottom hole O-2-T25S-R31E	January 2014, Horizontal Delaware
CDU 181	Pending	1,568' FNL & 1,189' FEL surface H-36-T24S-R31E	October 2013, SWD Devonian
CDU 200H		250' FNL & 660' FWL surface D-25-T24S-R31E 330' FSL & 660' FWL bottom hole M-25-T24S-R31E	July 2015, Horizontal Bone Spring
CDU 202H	30-015-41437	200' FSL & 1,170' FWL surface M-2-T24S-R31E 330' FNL & 1,980' FWL bottom hole 3-2-T25S-R31E	October 2013, Horizontal Bone Spring
CDU 214H	30-015-41537	200' FNL & 1,170' FWL surface C-36-T24S-R31E 330' FSL & 660' FWL bottom hole M-36-T24S-R31E	November 2013, Horizontal Bone Spring
CDU 215H	30-015-41534	200' FNL & 1,760' FWL surface C-36-T24S-R31E 330' FSL & 1,980' FWL bottom home N-36-T24S-R31E	December 2013, Horizontal Bone Spring
CDU 218H	30-015-41499	200' FSL & 1,120' FWL surface M-2-T25S-R31E 330' FNL & 660' FWL bottom hole	November 2013, Horizontal Bone Spring

		4-2-T25S-R31E	
CDU 219H CDU 219H cont	30-015-41363	200' FSL & 1,110' FEL surface P-2-T25S-R31E 330' FNL & 1,980' FEL bottom hole 2-2-T25S-R31E	September 2013, Horizontal Bone Spring
CDU 220H	30-015-41364	200' FSL & 1,060' FWL surface P-2-T25S-R31E 330' FNL & 660' FEL 1-2-T25S-R31E	August 2013, Horizontal Bone Spring

Approved or Pending APDs

Well Name	API #	Location-UL-Sec-T-R	Comments
CDU 117H	30-015-38434	160' FSL & 1,980' FEL O-34-T24S-R31E 660' FNL & 1,980' FEL B-34-T24S-R31E	APD expiration – 9/8/2014
CDU 138H	30-015-39305	200' FSL & 1,700' FEL surface O-2-T25S-31E 2,600' FSL & 2,298' FEL bottom hole J-35-T24S-R31E	APD expiration – 5/2/2015
CDU 139H	30-015-39306	200' FSL & 1,650' FEL surface O-2-T25S-R31E 2,600' FNL & 1,642' FEL bottom hole J-35-T24S-R31E	APD expiration – 5/19/2015
CDU 140H	30-015-39307	200' FSL & 1,600' FEL surface O-2-R25S-R31E 2,600' FSL & 986' FEL bottom hole I-35-T24S-R31E	APD expiration – 5/2/2015
CDU 165H	30-015-40824	25' FNL & 1,780' FEL surface 2-36-T24S-R31E 330' FSL & 1,880' FEL bottom hole O-36-T24S-R31E	APD expiration – 11/6/14
CDU 166H	30-015-41228	25' FSL & 1,780' FEL surface O-25-T24S-R31E 300' FNL & 1,880' FEL bottom hole B-25-T24S-R31E	APD expiration – 3/20/2015
CDU 167H	30-015-41385	330' FSL & 2,235' FWL surface 2-36-T24S-R31E	July 2013, Horizontal Delaware

CDU 167H cont		2,310' FSL & 2,200' FWL bottom hole K-25-T24S-R31E	
CDU 168H	30-015-40850	330' FNL & 1,345' FEL surface 2-2-T25S-R31E 330' FSL & 1,980' FEL bottom hole O-2-T25S-R31E	APD expiration – 11/27/14
CDU 169H	30-015-40851	330' FNL & 1,295' FEL surface A-2-T25S-R31E 330' FSL & 660' FEL bottom hole A-2-T25S-R31E	APD expiration – 11/27/14
CDU 170H		330' FNL & 1,295' FWL surface 4-1-T25S-R31E 330' FSL & 660' FWL bottom hole M-1-T25S-R31E	Pending – 2015 1 st Quarter
CDU 171H		330' FNL & 1,345' FWL surface 3-1-T25S-R31E 330' FSL & 1,980' FWL N-1-T25S-R31E	Pending – 2015 1 st Quarter
CDU 172H		195' FSL & 1,345' FEL surface O-1-T25S-R31E 330' FNL & 1,980' FEL bottom hole 2-1-T25S-R31E	Pending – 2015 1 st Quarter
CDU 173H		195' FSL & 1,295' FEL surface P-1-T25S-R31E 330' FNL & 660' FEL bottom hole 1-1-T25S-R31E	Pending – 2015 1 st Quarter
CDU 174H		280' FNL & 660' FWL surface D-12-T25S-R31E 330' FSL & 660' FWL M-12-T25S-R31E	Pending – 1 st Quarter 2014
CDU 175H		330' FNL & 1,345' FWL surface C-12-T25S-R31E 330' FSL & 1,980' FWL bottom hole N-12-T25S-R31E	Pending – 1 st Quarter 2014
CDU 176H		330' FNL & 1,345' FEL surface B-12-T25S-R31E 330' FSL & 1,980' FEL bottom hole O-12-T25S-R31E	Pending – 2 nd Quarter 2014
CDU 177H		330' FNL & 1,295' FEL surface	Pending – 2 nd Quarter 2014

CDU 177H cont		A-12-T25S-R31E 330' FSL & 660' FEL bottom hole P-12-T25S-R31E	
CDU 178H		330' FNL & 2,030' FEL surface B-13-T25S-R31E 330' FSL & 1,980' FWL bottom hole N-13-T25S-R31E	Pending – 2015 2 nd Quarter
CDU 179H		330' FNL & 1,980' FEL surface B-13-T25S-R31E 330' FSL & 1,980' FEL bottom hole O-13-T25S-R31E	Pending – 2015 2 nd Quarter
CDU 180H		330' FNL & 1,930' FEL surface B-13-T25S-R31E 330' FSL & 660' FEL bottom hole P-13-T25S-R31E	Pending – 2015 2 nd Quarter
CDU 201H		200' FNL & 860' FEL surface 1-2-T25S-R31E 330' FSL & 660' FEL bottom hole P-2-T25S-R31E	Pending – 2015 2 nd Quarter
CDU 202H	30-015-41437	200' FSL & 1,170' FWL surface M-2-T24S-R31E 330' FNL & 1,980' FWL bottom hole 3-2-T25S-R31E	APD expiration – 6/10/2015
CDU 203H		150' FSL & 1,360' FWL surface N-26-T24S-R31E 330' FNL & 660' FWL bottom hole D-26-T24S-R31E	Pending – 2 nd Quarter 2014
CDU 204H		150' FSL & 1,410' FWL surface N-26-T24S-R31E 330' FNL & 1,980' FWL bottom hole C-26-T24S-R31E	Pending – 2 nd Quarter 2014
CDU 205H		150' FSL & 1,450' FEL surface O-26-T24S-R31E 330' FNL & 1,980' FEL bottom hole B-26-T24S-R31E	Pending – 2 nd Quarter 2014
CDU 206H		150' FSL & 1,400' FEL surface O-26-T24S-R31E 330' FNL & 660' FEL bottom hole A-26-T24S-R31E	Pending – 3 rd Quarter 2014

CDU 207H		150' FSL & 1,300' FWL surface M-25-T24S-R31E	Pending – 3 rd Quarter 2014
CDU 207H cont		330' FNL & 660' FWL bottom hole D-25-T24S-R31E	
CDU 208H		Waiting on staking	Pending – 3 rd Quarter 2014
CDU 209H		220' FSL & 1,350' FEL surface O-36-T24S-R31E 2,310' FSL & 1,980' FEL bottom hole J-25-T24S-R31E	Pending – 4 th Quarter 2014
CDU 210H		220' FSL & 1,300' FEL surface P-36-T24S-R31E 2,310' FSL & 660' FEL bottom hole I-25-T24S-R31E	Pending – 4 th Quarter 2014
CDU 211H		185' FSL & 990' FEL surface 4-34-T24S-R31E 330' FNL & 660' FEL bottom hole A-24-T24S-R31E	Pending – 4 th Quarter 2014
CDU 212H		Waiting on staking	Pending – 1 st Quarter 2014
CDU 213H		200' FNL & 510' FEL surface A-35-T24S-R31E 330' FSL & 660' FEL bottom hole P-35-T24S-R31E	Pending – 1 st Quarter 2014
CDU 214H	30-015-41537	200' FNL & 1,710' FWL surface C-36-T24S-R31E 330' FSL & 660' FWL bottom hole M-36-T24S-R31E	APD Expiration – 7/13/2015
CDU 215H		Waiting on staking	Pending – 2 nd Quarter 2015
CDU 216 H		220' FSL & 1,450' FEL surface O-3-T25S-R31E 330' FNL & 1,980' FEL bottom hole 2-3-T25S-R31E	Pending – 4 th Quarter 2014
CDU 217H		200' FSL & 1,400' FEL surface O-3-T25S-R31E 330' FNL & 660' FEL bottom hole 1-3-T25S-R31E	Pending – 4 th Quarter 2014
CDU 218H	30-015-41499	200' FSL & 1,120' FWL surface M-2-T25S-R31E 330' FNL & 660' FWL bottom hole 4-2-T25S-R31E	November 2013, Horizontal Bone Spring

CDU 219H CDU 219H cont	30-015-41363	200' FSL & 1,110' FEL surface P-2-T25S-R31E 330' FNL & 1,980' FEL bottom hole 2-2-T25S-R31E	September 2013, Horizontal Bone Spring
CDU 220H	30-015-41364	200' FSL & 1,060' FWL surface P-2-T25S-R31E 330' FNL & 660' FEL 1-2-T25S-R31E	August 2013, Horizontal Bone Spring
CDU 221H		170' FSL & 1,460' FWL surface N-1-T25S-R31E 330' FNL & 660' FWL bottom hole 4-1-T25S-R31E	Pending – 3 rd Quarter 2015
CDU 222H		141' FSL & 1501' FWL surface N-1-T25S-R31E 330' FNL & 1,980' FWL bottom hole 3-1-T25S-R31E	Pending – 3 rd Quarter 2015
CDU 223H		200' FSL & 1,200' FEL surface P-1-T25S-R31E 330' FNL & 1,980' FEL bottom hole 2-1-T25S-R31E	Pending – 4 th Quarter 2014
CDU 224H		200' FSL & 1,150' FEL surface P-1-T25S-R31E 330' FSNL & 660' FEL bottom hole	Pending – 4 th Quarter 2014
CDU 225H		200' FNL & 1,115' FWL surface D-1-T25S-R31E 330' FSL & 660' FWL bottom hole M-1-T25S-R31E	Pending – 2 nd Quarter 2014
CDU 226H		200' FNL & 1,165' FWL surface D-11-T25S-R31E 330' FSL & 1,980' FWL bottom hole N-11-T25S-R31E	Pending – 3 rd Quarter 2014
CDU 227H		200' FNL & 660' FEL surface A-11-T25S-R31E 330' FSL & 660' FEL bottom hole P-11-T25S-R31E	Pending – 1 st Quarter 2014
CDU 228H		200' FNL & 1,150' FWL surface 1-7-T25S-R32E 330' FSL & 660' FWL bottom	Pending – 3 rd Quarter 2015

		hole 4-7-T25S-R31E	
CDU 229H		200' FNL & 1,200' FWL surface 1-7-T25S-R32E 330' FSL & 1,980' FWL bottom hole N-7-T25S-R32E	Pending – 3 rd Quarter 2015
CDU 230H		200' FNL & 1,200' FEL surface A-7-T25S-R32E 330' FSL & 1,980' FEL bottom hole O-7-T25S-R32E	Pending – 4 th Quarter 2015
CDU 231H		200' FNL & 1,150' FEL surface A-7-T25S-R32E 330' FSL & 660' FEL bottom hole P-7-T25S-R32E	Pending – 4 th Quarter 2015
CDU 233H		200' FNL & 1,020' FWL surface 1-18-T25S-R32E 330' FSL' & 660' FWL bottom hole 4-18-T25S-R32E	Pending – 4 th Quarter 2015
CDU 234H		220' FNL & 1,070' FWL surface 1-18-T25S-R32E 330' FSL & 1,980' FWL bottom hole N-18-T25S-R32E	Pending – 4 th Quarter 2015

2013 Planned Recompletion wells

<u>Well Name</u>	<u>API #</u>	<u>Location-UL-Sec-T-R</u>	<u>Comments</u>
CDU 67	30-015-20210	1,980' FWL & 660' FWL surface L-35-T24S-R31E	March 2013, plug back Atoka; test Bone Spring (11,544' – 11,606') September 2013 – test Bone Spring (10,348' – 10,388')

2013 Planned Conversion to Injection wells

<u>Well Name</u>	<u>API #</u>	<u>Location-UL-Sec-T-R</u>	<u>Comments</u>
CDU 76	30-015-29252	1,650' FSL & 660' FWL surface L-1-T25S-R31E	October 2013, convert Devonian producer to Devonian SWD

CDU 84	30-015-29728	2,615' FSL & 1,160' FEL surface I-2-T25S-R31E	June 2013, convert Devonian producer to Devonian SWD
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2013 Planned Plug and Abandon Wells
None

Recap of 2012 Drilling Activity

Well Name	API #	Location-UL-Sec-T-R	Comments
CDU 157H	30-025-40584	330' FSL & 660' FWL surface M-18-25S-32E 220' FNL & 660' FWL bottom hole D-18-25S-32E	Horizontal Delaware; completion in Jan 2013
CDU 159H	30-015-40385	330' FSL & 660' FWL surface M-13-25S-31E 200' FNL & 660' FWL bottom hole D-13-25S-31E	Horizontal Delaware; completion in Jan 2013
CDU 160H	30-015-38432	200' FNL & 2,160 FWL surface C-2-25S-31E 200' FSL & 1,980' FWL bottom hole N-2-25S-31E	Horizontal Delaware
CDU 161H	30-015-38534	200' FNL & 440' FWL surface D-2-25S-31E 200' FSL & 660' FWL bottom hole M-2-25S-31E	Horizontal Delaware
CDU 162H	30-015-39730	330' FSL & 860' FWL surface M-11-25S-31E 330' FNL & 660' FWL bottom hole D-11-25S-31E	Horizontal Delaware
CDU 163H	30-015-39375	330' FNL & 1,980' FWL surface C-11-25S-31E 330' FSL & 1,980' FWL bottom hole N-1-25S-31E	Horizontal Delaware – spud Dec. 2012; drilling in progress

Recap of 2012 Conversion and Recompletion Activity

Well Name	API #	Location-UL-Sec-T-R	Comments
CDU 89	30-015-31381	249' FSL & 1,985 FEL O-3-25S-31E	Converted to SWD October 2012.

Recap of 2012 Plug and Abandon Activity

None

Devon operated Cotton Draw Unit wells with current production status.

Well Name	API #	Location-UL-Sec-T-R	Production Status	Producing Reservoir
CDU 65	30-015-10843	1980' FNL & 1980' FEL G-2-T25S-R31E	Producing	Wolfcamp / P&A 6-1972 Morrow / P&A 3-1998 Cherry Canyon / Active SWD
CDU 67	30-015-20210	1980' FSL & 660' FWL L-35-T24S-R31E	Producing	Morrow / P&A 3-1990 Atoka / Active gas
CDU 76	30-015-29252	1650' FSL & 660' FWL L-1-T25S-R31E	Producing	Devonian / Active gas
CDU 81	30-015-29345	1650' FSL & 660' FWL L-2-T25S-R31E	Injecting	Wolfcamp / D&A 7-1997 Delaware / P&A 1-2005 Bone Springs / P&A 7-2010 Delaware / Active SWD
CDU 84	30-015-29728	2615' FSL & 1160' FEL I-2-T25S-R31E	Producing	Devonian / Active gas
CDU 86	30-015-29850	2600' FSL & 1500' FEL J-12-T25S-R31E	Producing	Devonian / Active gas
CDU 87	30-015-30818	772' FNL & 154' FEL A-11-T25S-R31E	Producing	Wolfcamp / Active gas
CDU 88	30-025-35086	2210' FSL & 1360' FWL K-7-T25S-R32E	P&A	Wolfcamp / P&A 5-13-2005
CDU 89	30-015-31381	250' FSL & 1980' FEL O-3-T25S-R31E	Producing	Wolfcamp / Active gas
CDU 110H	30-015-36406	660' FSL & 660' FWL M-25-T24W-R31E	Producing	Delaware / Active oil
CDU 113H	30-015-39517	220' FSL & 660' FWL M-36-24S-31E	Producing	Potential zone - Delaware / oil
CDU 114H	30-015-37410	330' FNL & 1,980' FEL B-34-T24S-R31E	Producing	Delaware / Active oil
CDU 115H	30-015-37898	330' FSL & 1,650' FEL O-34-T24S-R31E	Producing	Bone Spring (Avalon Shale) / Active oil

CDU 118H	30-015-37362	330' FNL & 1,980' FEL B-26-T24S-R31E	Producing	Delaware / Active oil
CDU 119H CDU 119H cont	30-015-37447	330' FNL & 800' FEL A-26-T24S-R31E	Producing	Delaware / Active oil
CDU 120H	30-015-37404	330' FNL & 2,145' FWL C-26-T24S-R31E	Producing	Delaware / Active oil
CDU 121H	30-015-37409	330' FNL & 660' FWL D-26-T24S-R31E	Producing	Delaware / Active oil
CDU 122H	30-015-38453	160' FNL & 1,345' FWL C-35-T24S-R31E	Drilling	Well spud 1/2013 – Horizontal Delaware
CDU 134H	30-015-38293	330' FNL & 1,980' FEL B-34-24S-31E	Producing	Bone Spring (Avalon Shale) / Active oil
CDU 135H	30-015-38533	200' FSL & 1,600' FWL N-2-25S-31E	Producing	Bone Spring (Avalon Shale)/ Active oil
CDU 136H	30-015-38534	200' FSL & 1,650' FWL N-2-25S-31E	Producing	Bone Spring (Avalon Shale)/ Active Oil
CDU 137H	30-015-38556	200' FSL & 1,700' FWL N-2-25S-31E	Producing	Bone Spring (Avalon Shale)/ Active Oil
CDU 150H	30-015-38536	330' FNL & 660' FEL A-34-24S-31E	Producing	Delaware / Active oil
CDU 151H	30-015-38610	200' FNL & 660' FWL D-35-24S-31E	Producing	Delaware / Active oil
CDU 152H	30-015-38609	200' FNL & 1,980' FWL C-35-24S-31E	Producing	Delaware / Active oil
CDU 153H	30-015-38535	200' FNL & 1,980' FEL B-3-25S-31E	Producing	Delaware / Active oil
CDU 154H	30-015-38952	200' FNL & 660' FEL A-3-25S-R31E	Completing	Delaware / Active oil
CDU 155H	30-015-38607	200' FNL & 1,980' FEL B-35-24S-31E	Producing	Delaware / Active oil
CDU 156H	30-015-38557	200' FNL & 660' FEL A-35-24S-31E	Producing	Delaware / Active oil
CDU 158H	30-015-39729	330' FSL & 660' FEL P-11-T25S-R31E	Producing	Delaware / Active oil
CDU 160H	30-015-38432	220' FNL & 2,160' FWL C-2-T25S-R31E	Temp Plugged	Delaware / Temporarily Plugged
CDU 161H	30-015-38433	220' FNL & 440' FWL D-2-T25S-R31E	Producing	Delaware / Active oil
CDU 162H	30-015-39730	330' FSL & 860' FWL M-11-T25S-R31E	Producing	Delaware / Active oil

Operated-by-others Cotton Draw Unit wells with current production status.

Sahara Operating is the designated Sub Operator of the Delaware "A" Participating Area. Sahara has no plans in 2012 for the Delaware "A" Participating Area other than routine maintenance operations.

Oxy, USA is the designated Sub Operator of the Delaware Participating Area. Oxy currently has no further development plans in 2012 other than routine maintenance operations.

Current production from the Cotton Draw Unit is summarized below.

<u>Code Reservoir - Total 2012</u>	<u>Oil Bbls</u>	<u>Gas Mcf</u>	<u>Water Bbls</u>	<u>SWD Bbls</u>
97003 SWD; Cherry Canyon	0	0	0	1,916,748
49460 SWD; Delaware	0	0	0	915,595
97136 Brushy Draw; Wolfcamp (Oil) - 97136	21,900	75,425	83,668	0
75244 Cotton Draw; Atoka, South - 75244	0	93	0	0
13370 Cotton Draw; Brushy Canyon - 13370	22,693	21,731	191,787	0
96757 Cotton Draw; Delaware, South (O) - 96757	56,308	59,572	960,231	0
96641 Paduca; Bone Spring(Avalon Shale) (O)- 96641	65,113	307,868	72,030	0
49460 Paduca; Delaware - 49460	8,942	384	170,769	0
49490 Paduca; Delaware, North - 49490	4,943	19,098	0	0
96615 Paduca; Devonian, NW (Gas) - 96615	0	94,076	64,640	0
82540 Paduca; Wolfcamp, South (Gas) - 82540	0	50,860	0	0
50386 Poker Lake; Delaware, South - 50386	233,523	791,975	1,246,109	0
Annual Total	413,422	1,421,082	2,789,234	2,832,343

Attached hereto, please find the following maps and graphs:

Unit Boundary aerial map showing all wells, roads and flow lines
Unit Boundary map showing all PA's
Devonian Structure map
Delaware Isopach & Structure Map
Bone Spring Isopach & Structure Map
Performance graph for each reservoir
Attachment "A" showing Non-Devon Operated wells thru 2012

The following is an Oklahoma City contact list should you have any questions or comments concerning this Plan of Development and Operation.

<u>Department</u>	<u>Contact</u>	<u>Desk telephone</u>
Operations	Dan McCorkell	405-228-7528
Landman	Samuel Walker	405-228-4342

Reservoir	Jeff Bentley	405-228-2808
Drilling	John Logemann	405-552-7862
	Spencer Stuart	405-552-3686
Geology	Steve Burns	405-228-4346
	Craig Harran	405-228-7711

The Plan of Development and Operation shall constitute the further obligations of the Operator under the Cotton Draw Unit Agreement for the Period ending January 1, 2014, and may be modified or supplemented from time to time with the approval of the District Manager, Bureau of Land Management and the Commissioner of Public Lands when necessary to meet changed conditions or to protect the interest of all parties to the Unit Agreement. It is understood that approval of this plan does not approve the work covered by the plan. Individual approval is still required for such items as APDs/ROWs, etc.

Approval of this Plan of Development and Operation for the Cotton Draw Unit Area is respectfully requested. Please return one approved copy to the undersigned.

SUBMITTED this _____ day of _____, 2013
DEVON ENERGY PRODUCTION COMPANY, L.P.

By: _____
Samuel Walker
Landman

APPROVED this _____ day of _____, 2013
Subject to the Approval by the Field Manager, Bureau of Land Management

By: _____
Bureau of Land Management
Assistant Field Manager - Minerals

APPROVED this _____ day of _____, 2013
Subject to the Approval by the Commissioner of Public Lands, State of New Mexico

By: _____
The Commissioner of Public Lands
State of New Mexico



Revised injection interval / TD per conversation with Devon
C-108 Review Checklist: Received 09/12/13 Add. Request: 10/22/13 Reply Date: 10/23/13 Suspended: — [Ver 10]

PERMIT TYPE: WFX / PMX / SWD Number: 1448 Permit Date: 10/22/13 Legacy Permits/Orders: None

Well No. 181 Well Name(s): Cotton Draw Unit (CDU) SWD

API: 30-0 15-41649 Spud Date: 10/2013 New or Old: N (UIC Class II Primacy 03/07/1982)

Footages 1568 FNL / 1189 FEL Lot — Unit H Sec 36 Tsp 24S Rge 31E County Eddy

General Location: East of Big Sinks along Lea/Eddy Pool: [Closest prod: Paduca NW; Devonian (Gas)] Pool No.: 96615
upgradient of well

Operator: Devon Energy Production Co. LP OGRID: 6137 Contact: Stephanie Porter / Devon

COMPLIANCE RULE 5.9: Inactive Wells: 5 Total Wells: 1816 Fincl Assur: Yes Compl. Order? 16 IS 5.9 OK? OK

Well File Reviewed ☒ Current Status: New well / currently spud & drilling

Well Diagrams: NEW: Proposed ☒ RE-ENTER: Before Conv. ☐ After Conv. ☐ Are Elogs in Imaging?: Requested CBL

Planned Rehab Work to Well: New well in CDU — reduced injection interval per conv. on 10/22/2013

Well Construction Details:		Sizes (in) Borehole / Pipe	Setting Depths (ft)	Cement Sx or Cf	Cement Top and Determination Method
Planned <input type="checkbox"/> or Existing <input checked="" type="checkbox"/> Conductor	—	—	—	—	—
Planned <input type="checkbox"/> or Existing <input checked="" type="checkbox"/> Surface	26 / 26	0 to 750	Stage Tool	1750	Circ. to surface
Planned <input type="checkbox"/> or Existing <input checked="" type="checkbox"/> Interm/Prod	17 1/2 / 13 3/8	0 to 4400	—	1910	Circ. to surface
Planned <input type="checkbox"/> or Existing <input checked="" type="checkbox"/> Prod/Interm	12 1/4 / 9 5/8	0 to 11650	NA	1930	Calc. - 3500 2 Log
Planned <input type="checkbox"/> or Existing <input checked="" type="checkbox"/> Liner/Prod	8 1/2 / 7	0 to 16742	NA	800	Calc. - 10500 5 Log
Planned <input checked="" type="checkbox"/> or Existing <input type="checkbox"/> OH/PERF	[bore - 5 7/8]	16742 - 19185	Inj Length 2443'	Completion/Operation Details:	
Injection Stratigraphic Units:		Depths (ft)	Injection or Confining Units	Tops?	
Adjacent Unit: Litho. Struc. Por.	—	Mississippian	16328		Drilled TD <u>New</u> PBDT <u>New</u>
Confining Unit: <input checked="" type="checkbox"/> Litho <input type="checkbox"/> Struc. <input type="checkbox"/> Por.	Not Contact	Wardford Shale	16613		NEW TD <u>19185</u> NEW PBDT <u>NA</u>
Proposed Inj Interval TOP:	16742	Devonian	16742		NEW Open Hole <input checked="" type="checkbox"/> or NEW Perfs <input type="checkbox"/>
Proposed Inj Interval BOTTOM:	19185	Ellenburger	19085		Tubing Size <u>4 1/2</u> in. Inter Coated? <u>Yes</u>
Confining Unit: <input checked="" type="checkbox"/> Litho <input type="checkbox"/> Struc. <input type="checkbox"/> Por.	in Ellenburger	Granite wash	19700		Proposed Packer Depth <u>116700</u> ft
Adjacent Unit: Litho. Struc. Por.	- 585	PE	19770		Min. Packer Depth <u>16642</u> (100-ft limit)
					Proposed Max. Surface Press. <u>3348</u> psi
					Admin. Inj. Press. <u>3348</u> (0.2 psi per ft)

AOR: Hydrologic and Geologic Information

*POTASH: R-111-P ☒ Noticed? State BLM Sec Ord ☒ WIPP ☒ Noticed? NA SALADO: T: 1037 B: 4262 CLIFF HOUSE NA

FRESH WATER: Formation Alluvial Max Depth 340' Wells? ☒ FW Analysis ☒ HYDROLOGIC AFFIRM By Qualified Person ☒

Disposal Fluid: Formation Source(s) Bone Spring & Delaware Analysis? Yes On Lease ☐ Operator Only ☒ or Commercial ☐

Disposal Interval: Injection Rate (Avg/Max BWPD): 7500/15000 Protectable Waters: Needs CAPITAN REEF: thru ☐ adj ☐ NA ☒

H/C Potential: Producing Interval? Not Formerly Producing? No Method: E Log / Mudlog / DST / Depleted / Other Requested

AOR Wells: 1/2-M Radius Map? Yes Well List? Yes Total No. Wells Penetrating Interval: 0 Horizontals? 0

Penetrating Wells: No. Active Wells 0 Num Repairs? — on which well(s)? — Diagrams? NA

Penetrating Wells: No. P&A Wells 0 Num Repairs? — on which well(s)? — Diagrams? NA

NOTICE: Newspaper Date 08/20/13 Mineral Owner SLO Surface Owner SLO N. Date 9/11/13

RULE 26.7(A): Identified Tracts? Yes Affected Persons: OGX / XTO Energy Copy of Unit order included N. Date 9/11/13

Permit Conditions: Issues: Unknown water quality / H₂ potential at location / final top of cmt
 Add Permit Cond: Mudlog; provide salinity calc. based on log; CBL for calc. cmt tops