

5/13/2014 DATE IN	SUSPENSE	PRG ENGINEER	5/13/2014 LOGGED IN	SWD TYPE	PMAM 1413348097 APP NO.
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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



*RKT has a
delivered
SWD

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 _____

-SWD
-Devon Energy Production
Company, LP
6137
-W 211
-Rosco 16 states SWD
30-015-Pending

- [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

RECEIVED
2014 MAY 13 A.M. 10:19

Pool
-SWD, Devon
96101

- [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]
Signature

Operations Technician
Title

5/12/2014
Date

Stephanie.Porter@divn.com
e-mail Address

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage
Application qualifies for administrative approval? X 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 X 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: [Signature] DATE: 05/12/2014
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.

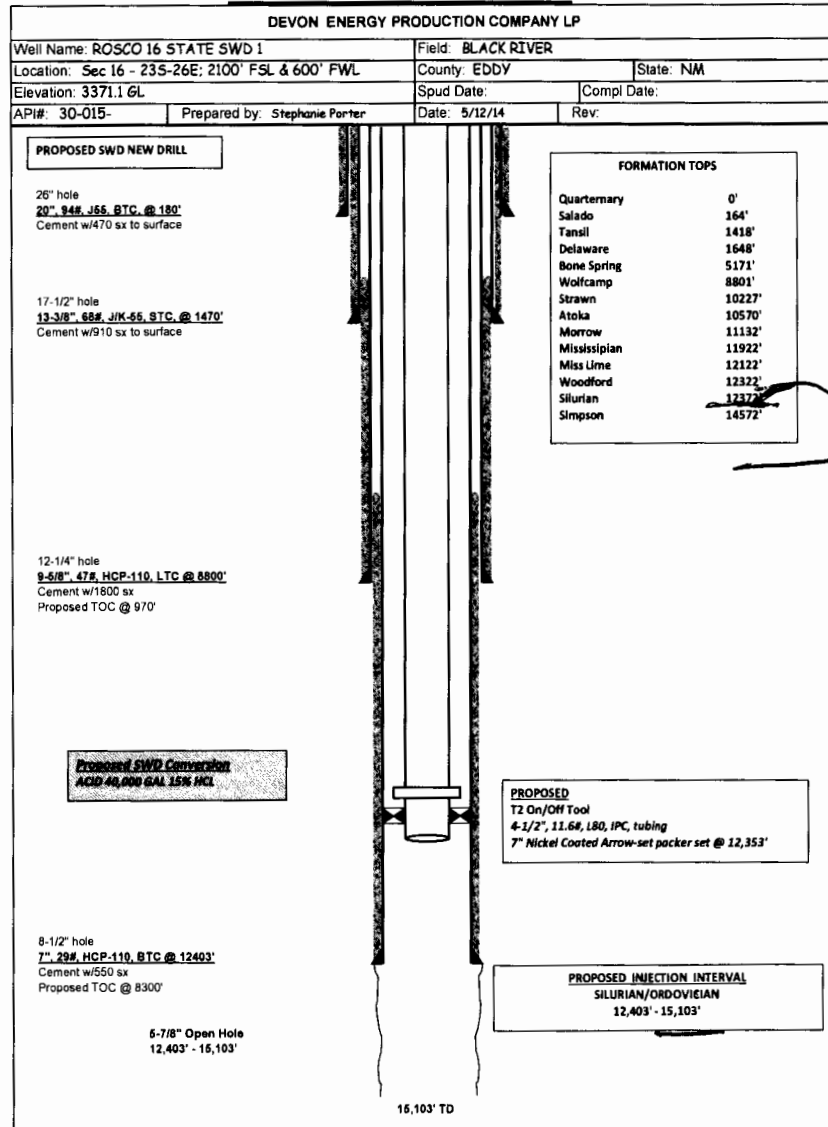
Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (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: ROSCO 16 ST SWD 1WELL LOCATION: 1665' FSL & 600' FWL L Sec 16 T23S R26E
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE**WELLBORE SCHEMATIC****WELL CONSTRUCTION DATA**Surface Casing

Hole Size: 26" all Casing Size: 20", 94# @ 180'

Cemented with: 470 sx. or ft³

Top of Cement: Surface Method Determined: Circ. cement

Intermediate Casing

Hole Size: 17-1/2" Casing Size: 13-3/8", 68#, @ 1470'

Cemented with: 910 sx. or ft³

Top of Cement: Surface Method Determined: Circ. cement

Intermediate Casing

Hole Size: 12-1/4" Casing Size: 9-5/8", 47#, @ 8800'

Cemented with: 1800 sx. or ft³

Top of Cement: 970' Method Determined: Calc TOC

Production Casing

Hole Size: 8-1/2" Casing Size: 7", 29#, @ 12403'

Cemented with: 550 sx. or ft³

Top of Cement: TOC @ 8300' Method Determined: Calc TOC

Total Depth: 15103'Injection Interval (Open Hole)12403' to 15103'(Perforated or Open Hole indicate which)

INJECTION WELL DATA SHEET

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

Type of Packer: 7" Nickel Coated Arrowset Packer

Packer Setting Depth: +/- 12353'

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? n/a

2. Name of the Injection Formation: Silurian/Ordovician

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:

Quaternary 0 (Barren); Salado 164 (Barren); Tansil 1418 (Barren); Delaware 1648 (Oil); Bone Spring 5171 (Oil); Wolfcamp 8801 (Oil); Strawn 10227 (Oil/Gas); Atoka 10570 (Oil/Gas); Morrow 11132 (Oil/Gas); Mississippian 11922 (Barren); Mississippian Lime 12122 (Barren); Woodford 12322 (Barren); Silurian 12372 (Barren); Simpson 14572 (Barren) ✓

DEVON ENERGY PRODUCTION COMPANY LP

Well Name: ROSCO 16 STATE SWD 1		Field: BLACK RIVER	
Location: Sec 16 - 23S-26E; 2100' FSL & 600' FWL		County: EDDY	State: NM
Elevation: 3371.1 GL		Spud Date:	Compl Date:
API#: 30-015-	Prepared by: Stephanie Porter	Date: 5/12/14	Rev:

PROPOSED SWD NEW DRILL

26" hole
20", 94#, J55, BTC, @ 180'
 Cement w/470 sx to surface

17-1/2" hole
13-3/8", 68#, J/K-55, STC, @ 1470'
 Cement w/910 sx to surface

12-1/4" hole
9-5/8", 47#, HCP-110, LTC @ 8800'
 Cement w/1800 sx
 Proposed TOC @ 970'

Proposed SWD Conversion
ACID 40,000 GAL 15% HCL

8-1/2" hole
7", 29#, HCP-110, BTC @ 12403'
 Cement w/550 sx
 Proposed TOC @ 8300'

5-7/8" Open Hole
 12,403' - 15,103'

FORMATION TOPS

Quaternary	0'
Salado	164'
Tansil	1418'
Delaware	1648'
Bone Spring	5171'
Wolfcamp	8801'
Strawn	10227'
Atoka	10570'
Morrow	11132'
Mississippian	11922'
Miss Lime	12122'
Woodford	12322'
Silurian	12372'
Simpson	14572'

470
 907
 503'

8300

500

8800

Ellenburger?

PROPOSED

T2 On/Off Tool
 4-1/2", 11.6#, L80, IPC, tubing
 7" Nickel Coated Arrow-set packer set @ 12,353'

PROPOSED INJECTION INTERVAL

SILURIAN/ORDOVICIAN
 12,403' - 15,103'

15,103' TD

Proposed Injection Well: Rosco 16 State SWD 1

API: 30-015-

APPLICATION FOR INJECTION

Form C-108 Section III

III. Well Data—On Injection Well

A. Injection Well Information

- (1) Lease Rosco 16 State SWD
Well No #1
Location 1665' FSL & 600' FWL
Sec,Twn,Rnge Sec 16-T23S-R26E
Cnty, State Eddy County, NM
- (2) Casing 20", 94#, J55, BTC, @ 180'
Cmt'd w/470 sx, circ cmt to surf

13-3/8", 68#, J/K-55, STC, @ 1470'
Cmt'd w/910 sx, circ cmt to surf

9-5/8", 47#, HCP-110, LTC @ 8,800'
Cmt'd w/1800, proposed toc @ 970'

7", 29#, HCP-110, BTC @ 12403'
Cmt w/550 sx, prop toc @ 8300'
- (3) Injection Tubing 4 -1/2" 11.6# L-80 IPC injection tubing
- (4) Packer 7" Nickel Coated Arrowset Packer @ +/- 12353'

B. Other Well Information

- (1) Injection Formation: Silurian/Ordovician
Field Name: (to be assigned)
- (2) Injection Interval: 12403' - 15103'

- (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.**

Quaternary 0 (Barren); Salado 164 (Barren); Tansil 1418 (Barren); Delaware 1648 (Oil); Bone Spring 5171 (Oil); Wolfcamp 8801 (Oil); Strawn 10227 (Oil/Gas); Atoka 10570 (Oil/Gas); Morrow 11132 (Oil/Gas); Mississippian 11922 (Barren); Mississippian Lime 12122 (Barren); Woodford 12322 (Barren); Silurian 12372 (Barren); Simpson 14572 (Barren)

Proposed Injection Well: Rosco 16 State SWD 1

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: 1240 psi
Proposed max injection pressure: 2480 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 Silurian/Ordovician formation.
- (5) No representative water analysis are submitted for the Delaware & Bone Spring formation(s).

VIII Geologic Injection Zone Data

The injection zone is the Silurian/Ordovician formation from 12400' to 15103'. The gross injection interval is 2703' thick. The Silurian/Ordovician formation is a Permian aged sandstone. The average depth to fresh water is 202' 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.

XI Fresh Water Analysis

Fresh water wells were identified in the vicinity of the proposed well, representative analysis have been provided. See documentation.

XII Geologic / Engineering Statement

ROSCO 16 STATE SWD #1:

Name of the Injection Formation: **Silurian & Ordovician (Wristen Group, Fusselman, Montoya, and Simpson Group)**

Field or Pool Name (if known):

Injection Interval: **12,400'-15,103' open hole**

Depth to Fresh Water's Stratigraphic Unit Name: **Quaternary**

Depth to Ground Water: **202'**

Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well: Next Higher – **Mississippian (11,953')**; Next Lower – **N/A**

Potential Productivity of the target disposal interval: **See Comments Below**

Disposal water will be sourced from area wells from the **Bone Spring and/or Delaware** formation(s). 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.

ROSCO 16 STATE SWD #1 (1665' FSL & 600' FWL 16-23S-26E; PTD 15,103')

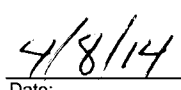
The proposed interval for disposal per the Rosco 16 State SWD #1 APD is in the Wristen Group, Fusselman, Montoya, and Simpson Group from 12,403' to 15,103'. A review of the wells surrounding the drill site shows that the closest Silurian penetration is the MOBIL-FED 12 #1 in 12-23S-26E (3.9 miles ENE). Other Silurian penetrations within 8 miles of the proposed disposal site are shown on the subsequent map and cross-section along with the proposed new drill of the ROSCO 16 STATE SWD #1. All of the offset Silurian penetrations had at least one DST in the Silurian. None of the DSTs delivered hydrocarbons in quantities that warranted further testing and/or completion. These wells tested the Silurian were subsequently P&A'd or completed up hole in the Morrow formation.



Raleigh Blumstein, Geologist

Direct #: (405)-552-3359

Cell #: (405)-635-7903



Date:

XIII Proof of Notice

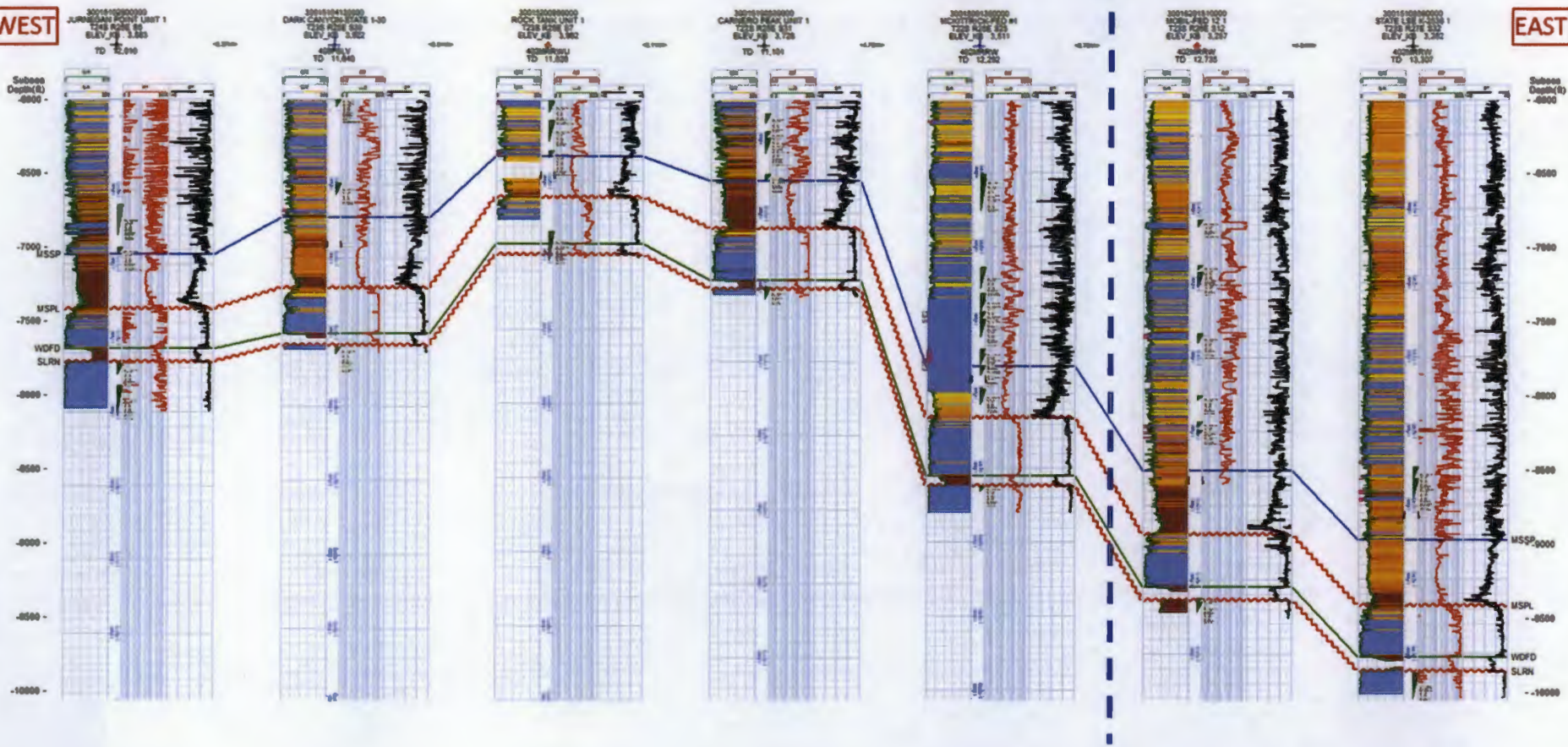
Proof of notice to surface owner, and public legal notification are attached.

DEVON ROSCO 16 STATE SWD 1

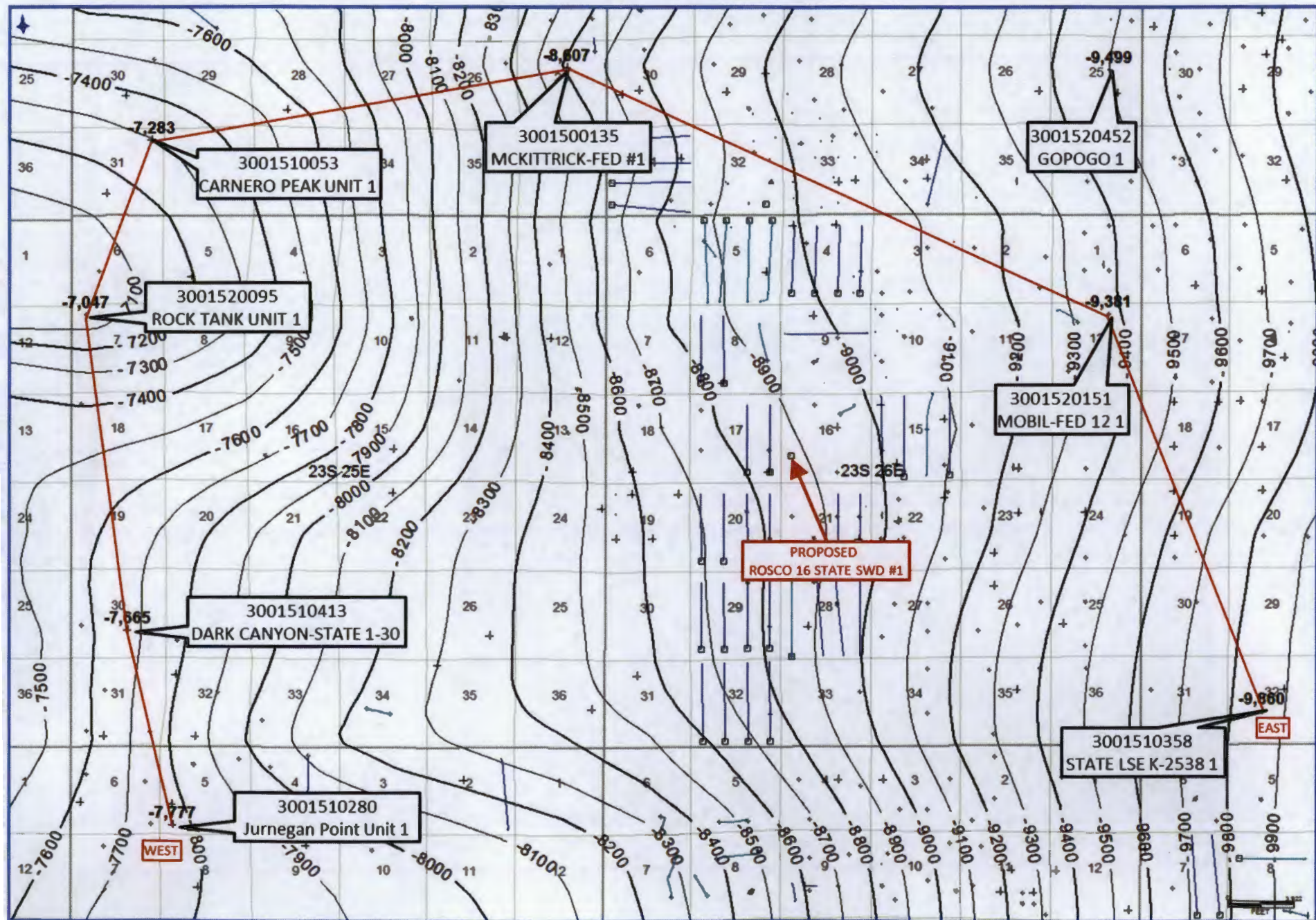


WEST

EAST



REGIONAL TOP SILURIAN STRUCTURE MAP
(C.I. = 100 ft)

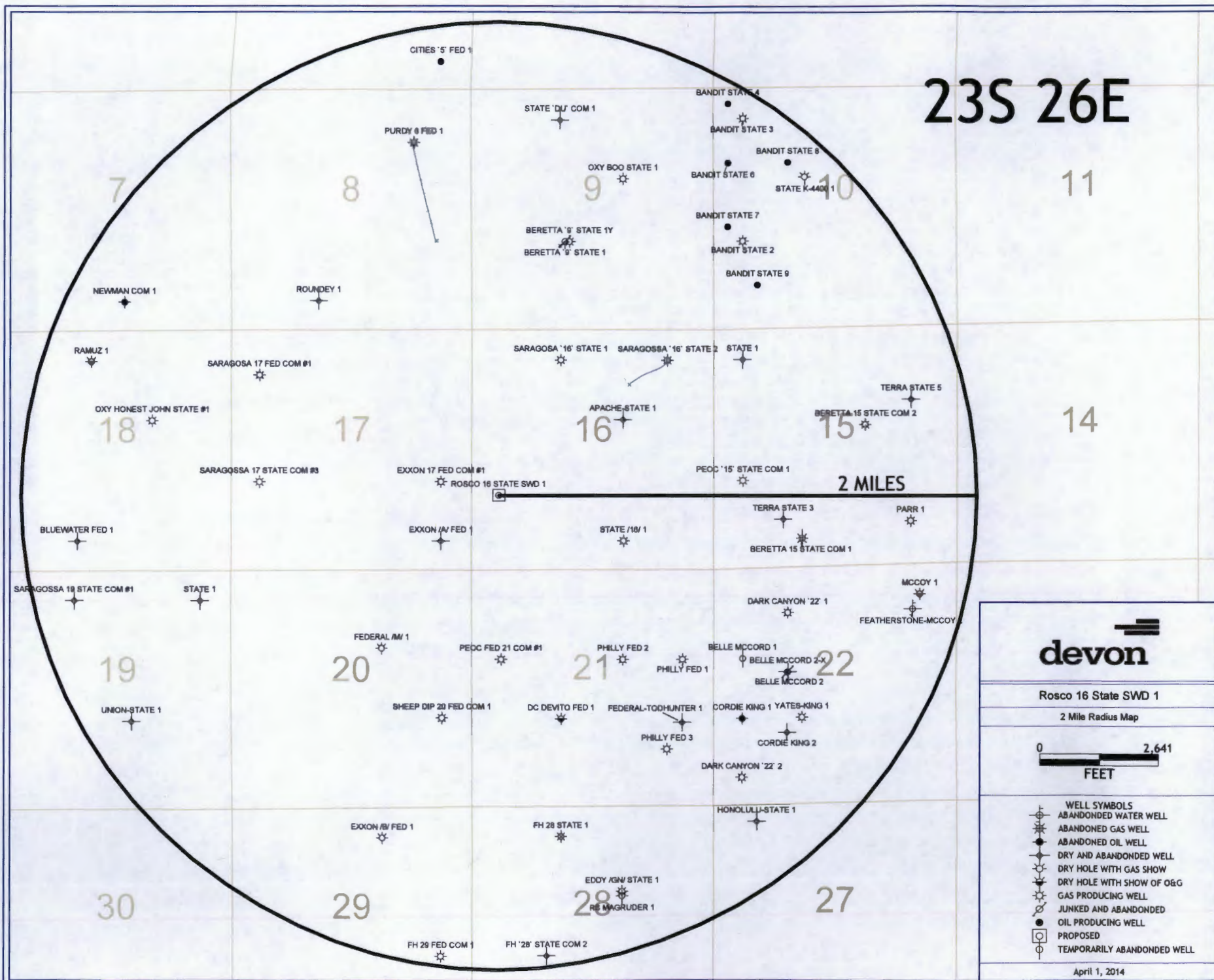


ROSCO 16 STATE SWD #1

C108 ITEM VI--Well Tabulation in 1/2 Mile Review Area																	
Devon Energy Production Company, LP																	
Proposed Inj Well:	ROSCO 16 STATE SWD 1																
Proposed Formation:	Silurian/Ordovician																
Proposed Interval:	12403' - 15103'																
Operator	Well Name	API NO	County	Surf Location	Sec	Twn	Rnge	Type	Status	Spud Date	Comp Date	TVD	PBTD	Comp Zone	Comp Interval-Ft	Casing Program (MD)	Cement / TOC
Devon Energy Production Company, LP	Rosco 16 State SWD 1	30-015-	Eddy	1665' FSL 600' FWL	16	23S	26E	Inj	To Be Drilled	To Be Drilled	To Be Drilled	15103	15103	Ordovician/ Silurian	12403-15103	20", 94# @ 180' 13-3/8", 68#, @ 1470' 9-5/8", 47# @ 8800' 7", 29# @ 12403'	470 sx/ surface 910 sx / surface 1800 sx / 970 toc 550 sx/ 8300 toc
Coquina Oil Corporation	Exxon A Federal 1	30-015-21161	Eddy	660' FSL 660' FEL	17	23S	26E	Dry Hole	P&A	4/30/1974	5/9/1974	2000	Surf	n/a	20158-10277	8-5/8", 24#, @ 592'	600 sx / surface
Devon Energy Production Company, LP	Exxon 17 Federal Com 1	30-015-26146	Eddy	1980' FSL 660' FEL	17	23S	26E	Gas	Active	6/12/2006	6/19/2006	11850	11365	Atoka Morrow	10826-10939 (CIBP @ 11400) 11478-11490	13-3/8", 54.5#, @ 525' 8-5/8", 32#, @ 2707' 4-1/2", 11.6/15#, @ 11848'	575 sx / surface 1200 sx / 8500 cr 650 sx / surface

Ø wells penetrate

23S 26E



devon

Rosco 16 State SWD 1

2 Mile Radius Map

0 2,641
FEET

April 1, 2014

23S 26E

16

APACHE-STATE 1



EXXON 17 FED COM #1



ROSCO 16 STATE SWD 1



1/2 MILE

EXXON /A/ FED 1



STATE /16/ 1




devon

Rosco 16 State SWD 1

1/2 Mile Radius Map



WELL SYMBOLS
✦ DRY AND ABANDONED WELL
✧ GAS PRODUCING WELL
◻ PROPOSED

April 1, 2014

DEVON ENERGY PRODUCTION COMPANY LP

Well Name: EXXON 17 FED COM 1		Field: CARLSBAD SOUTH	
Location: 1980' FSL & 660' FEL; SEC 17-T23S-R26E		County: EDDY	State: NM
Elevation: 3375' GL		Spud Date: 8/1/89	Compl Date: 9/14/89
API#: 30-015-26146	Prepared by: Ronnie Slack	Date: 7/7/08	Rev: 4/21/14 SAP

17-1/2" hole
13-3/8", 54.5#, @ 525'
 Cmt'd w/575 sx to surface

12-1/4" hole
8-5/8", 32#, K55, @ 2,707'
 Cmt'd w/1200 sx to surface

TOC @ +/- 8500'

ATOKA (6/16/06)
 10,826' - 10,832'

ATOKA (6/16/06)
 10,936' - 10,939'

MORROW (9/14/89)
 11,478' - 11,490'

7-7/8" Hole
4-1/2", 11.6 & 15.1#, N80, S95, P110, @ 11,848'
 Cmt'd w/650 sx

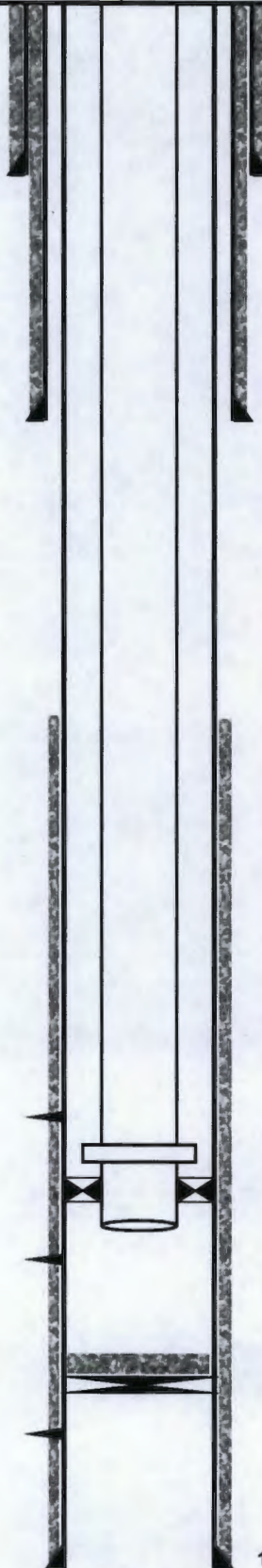
2-3/8", N80, production tubing

Packer @ 10,888' (6/4/08)

35' Cement. 11,365' PBTD
 CIBP @ 11400' (6/14/06)

11,760' PBTD

11,850' TD



COQUINA OIL CORPORATION

Well Name: EXXON A FEDERAL 1		Field: DELAWARE	
Location: 660' FSL & 660' FEL; SEC 17-T23S-R26E		County: EDDY	State: NM
Elevation: 3396'		Spud Date: 4/30/44	Compl Date: P&A - 5/09/74
API#: 30-015-21161	Prepared by: Stephanie Porter	Date: 4/21/14	Rev:

SCHEMAT BASED ON PLUGGING REPORT
FILED WITH OCD DATED 5/14/1974

12-1/4" Hole
8-5/8", 24#, casing @ 592'
600 sx cement

8-5/8" Hole

2,000' TD

Cement plug @ 0' - 20'
10 sx cement

25 sx cement @ 530' - 630'

25 sx cement @ 1,700' - 1,800'

Copy to SF

N. M. G. C. COPY

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-B1424.

5. LEASE DESIGNATION AND SERIAL NO.

NM 6569

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

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—" for such proposals.)

RECEIVED

1. OIL WELL ☒ GAS WELL ☐ OTHER ☐

FEB 5 1975

2. NAME OF OPERATOR

Coquina Oil Corporation

3. ADDRESS OF OPERATOR

200 Bldg. of the Southwest, Midland, Texas 79701

O. C. C.
ARTESIA, OFFICE

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)

At surface 660' FS & EL, Sec.17

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Exxon A Federal

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Und. Delaware

11. SEC., T., R., M., OR BLM. AND
SURVEY OR AREA

Sec.17, T23S, R26E

14. PERMIT NO.

15. ELEVATIONS (Show whether D7, RT, GR, etc.)

G.L. 3396

12. COUNTY OR PARISH 13. STATE

Eddy

N.M.

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Plugged and abandoned by setting the following plugs:

Plug #1 25 sxs. 1700'-1800'

Plug #2 25 sxs. 530'-630'

Plug #3 10 sxs. 0-20'

Completed setting plugs at 8:00 P.M., May 9, 1974.

RECEIVED

MAY 16 1974

U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

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

SIGNED D. C. Radtke (D. C. Radtke)

TITLE Engineer

DATE 5-14-74

(This space for Federal or State office use)

APPROVED BY

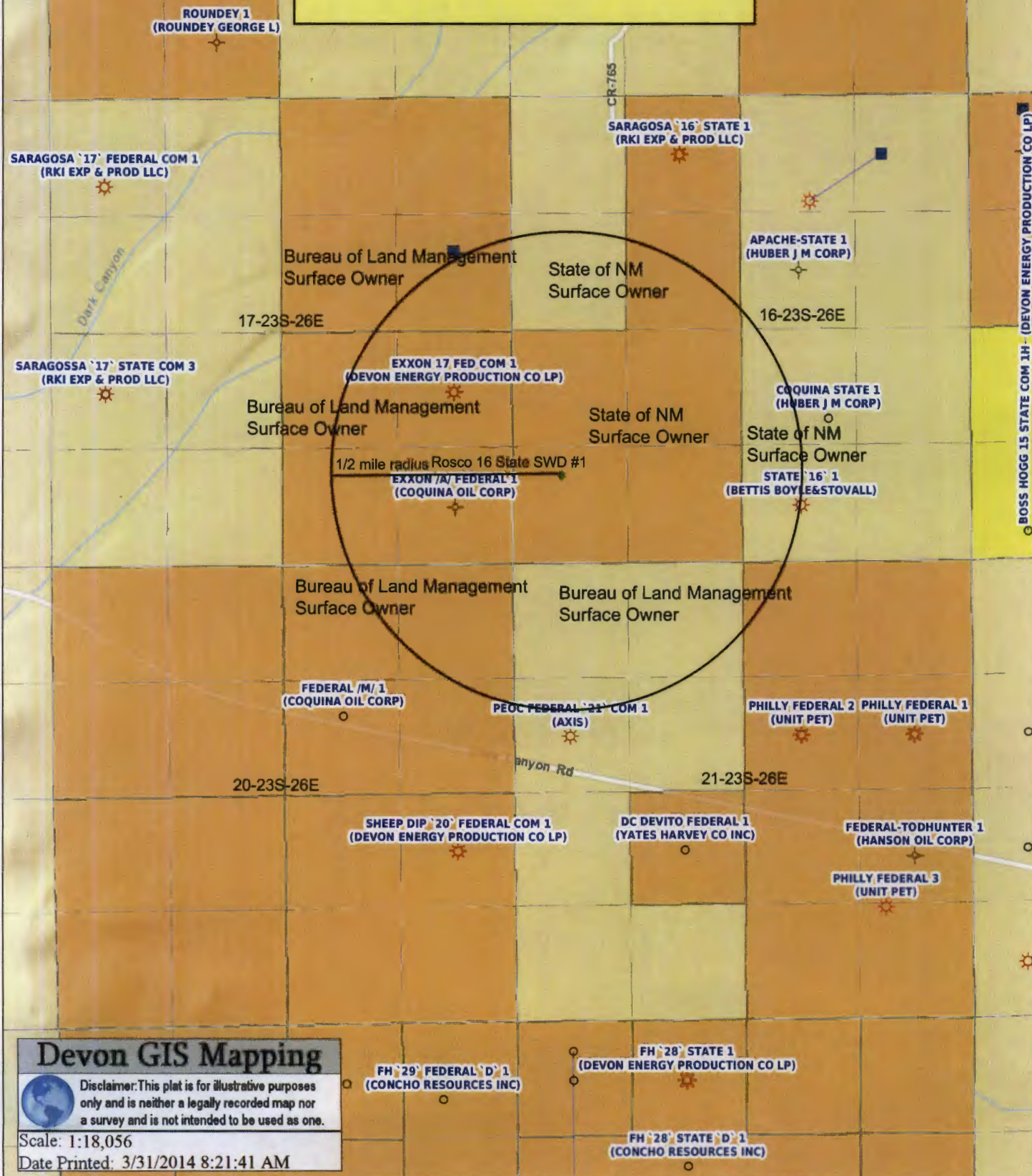
TITLE

DATE

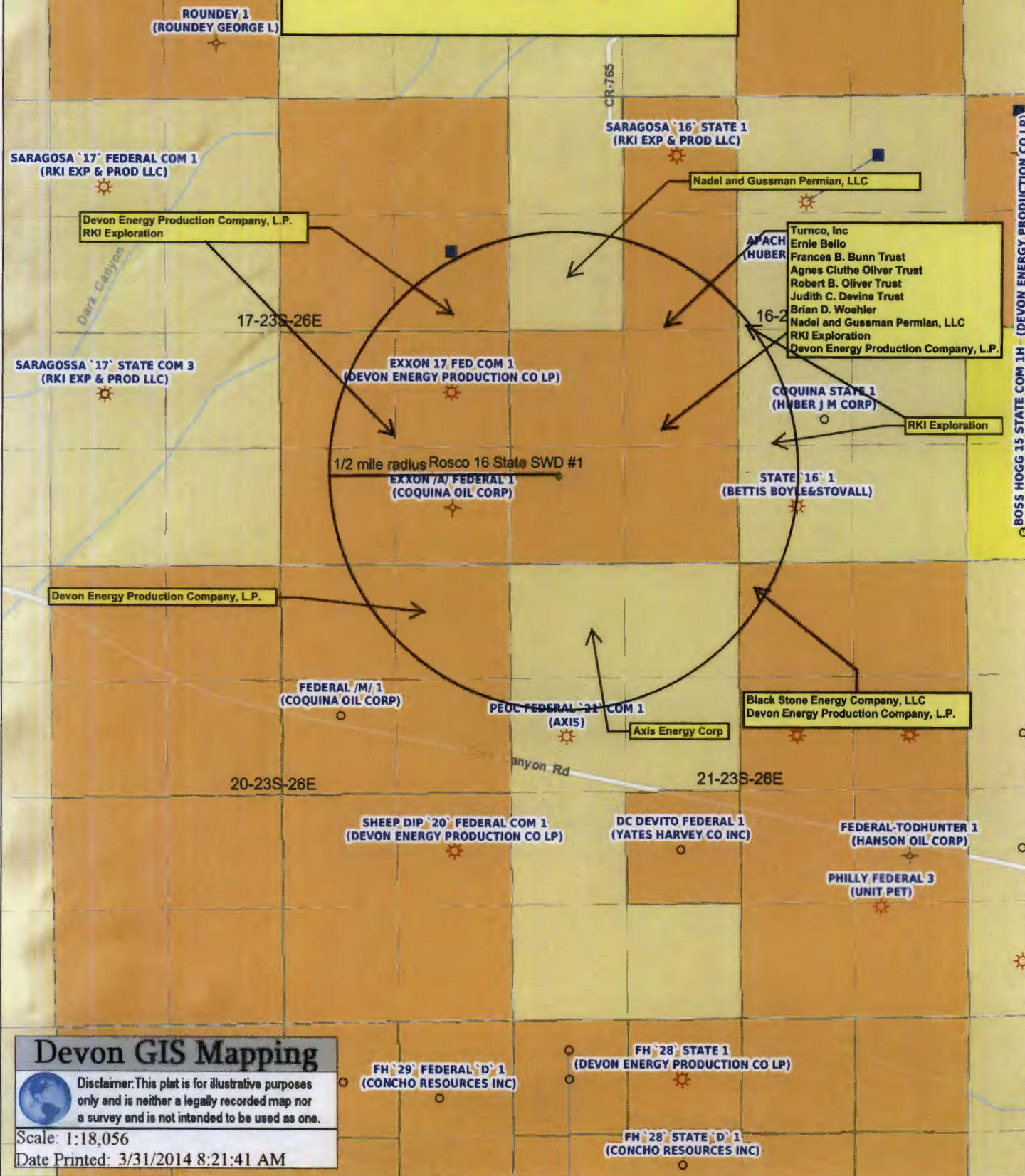
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Surface Owners Rosco 16 State SWD #1 Eddy County, NM



Leasehold Owners Rosco 16 State SWD #1 Eddy County, NM



Leasehold Operator Ownership

½ mile Rosco 16 State SWD #1

Township 23 South, Range 26 East

Section 16: SW/4 NW/4

Nadel and Gussman Permian, LLC
15 E 5th Street, Suite 3200
Tulsa, OK 74103

Township 23 South, Range 26 East

Section 16: SE/4 NW/4; SW/4

Devon Energy Production Company, LP
333 W Sheridan Ave
Oklahoma City, OK 73102-5015

Turnco, Inc.
4722 Taft Blvd
Wichita Falls, TX 76308

Ernie Bello
1570 Alewa Dr
Irvine, CA 96817

Frances B. Bunn Revocable Living Trust
2493 Makiki Heights Dr
Honolulu, HI 96822

Agnes Cluthe Oliver Trust
2626 Cole Avenue Suite 705
Dallas, TX 75204

Robert B. Oliver Trust
2626 Cole Avenue Suite 705
Dallas, TX 75204

Judith C. Devine Trust
2626 Cole Avenue Suite 705
Dallas, TX 75204

Brian D. Woehler Trust
c/o Steve Fillenwarth, Trustee
9840 Westpoint Dr Suite 200
Indianapolis, IN 46256

Nadel and Gussman Permian, LLC
15 E 5th Street, Suite 3200
Tulsa, OK 74103

RKI Exploration
210 Park Ave Ste 900
Oklahoma City, OK 73102

Township 23 South, Range 26 East
Section 16: SW/4 NE/4; W/2 SE/4

RKI Exploration
210 Park Ave Ste 900
Oklahoma City, OK 73102

Township 23 South, Range 26 East
Section 21: NW/4 NE/4

Devon Energy Production Company, LP
333 W Sheridan Ave
Oklahoma City, OK 73102-5015

Black Stone Energy Company, LLC
1001 Fannin, Suite 2020
Houston, TX 77002

Township 23 South, Range 26 East
Section 21: NW/4

Axis Energy Corporation
PO Box 2107
Roswell, NM 88202

Township 23 South, Range 26 East
Section 20: NE/4

Devon Energy Production Company, LP
333 W Sheridan Ave
Oklahoma City, OK 73102-5015

Township 23 South, Range 26 East
Section 17: E/2

Devon Energy Production Company, LP
333 W Sheridan Ave
Oklahoma City, OK 73102-5015

RKI Exploration
210 Park Ave Ste 900
Oklahoma City, OK 73102

Section XIV--Proof of Notice to Leasehold Operators
Devon Energy Prod Co LP
C108 Application For Injection
Proposed Well: ROSCO 16 SWD 1

Proof of Notice to Leasehold Operators within 1/2 mile of Rosco 16 SWD #1

Nadel & Gussman Permian, LLC 15 E 5 th , Suite 3200 Tulsa, OK 74103	Certified receipt No. 7008 1830 0003 1986 6916
Turnco, Inc 4722 Taft Blvd Wichita Falls, TX 76308	Certified receipt No. 7008-1830-0002-7421-9673
Ernie Bello 1570 Alewa Dr Irvine, CA 96817	Certified receipt No. 7008-1830-0002-7421-9666
Frances B. Bunn Revocable Living Trust 2493 Makiki Heights Drive Honolulu, HI 96822	Certified receipt No. 7008-1830-0002-7421-9659
Anges Cluthe Oliver Trust 2626 Cole Avenue, Suite 705 Dallas, TX 75204	Certified receipt No. 7008-1830-0002-7421-9642
Robert B. Oliver Trust 2626 Cole Avenue, Suite 705 Dallas, Texas 75204	Certified receipt No. 7008-1830-0002-7421-9635
Judith C. Devine Trust 2626 Cole Avenue, Suite 705 Dallas, TX 75204	Certified receipt No. 7008-1830-0002-7421-9628
Brian D. Woehler Trust c/o Steve Fillenwarth, Trustee 9840 Westpoint Dr, Suite 200 Indianapolis, IN 46256	Certified receipt No. 7008-1140-0004-6108-7720
RKI Exploration 210 Park Avenue, Ste 900 Oklahoma City, OK 73102	Certified receipt No. 7008-1140-0004-6108-7713
Black Stone Energy Company, LLC 1001 Fannin, Suite 2020 Houston, TX 77002	Certified receipt No. 7008-1140-0004-6108-7706
Axis Energy Corporation P.O. Box 2107 Roswell, NM 88202	Certified receipt No. 7008-1140-0004-6108-7690

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 Rosco 16 SWD #1.

Date Mailed:

Signature:

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

Date:

Section XIV--Proof of Notice to Surface Land Owner
Devon Energy Prod Co LP
C108 Application For Injection
Proposed Well: ROSCO 16 STATE SWD 1

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

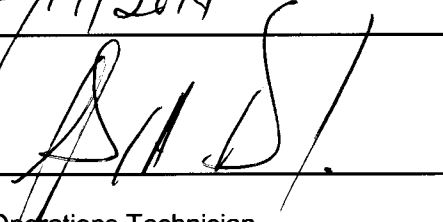
Certified receipt No.
7008 1140 0004 6018 7683

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 Rosco 16 SWD #1.

Date Mailed: _____

5/14/2014

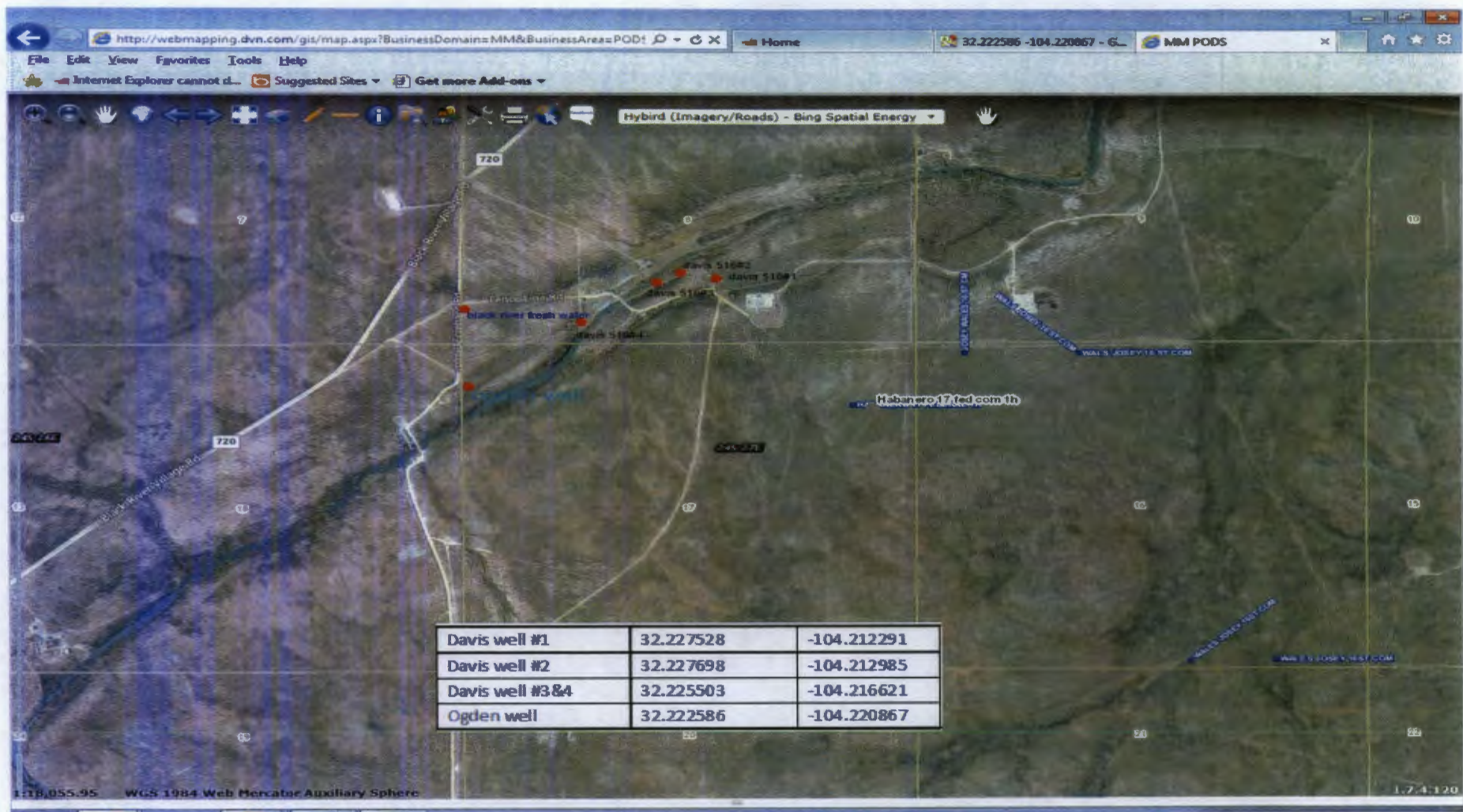
Signature: _____



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

Date: _____

5/12/2014



**Rosco 16 State SWD 1
C108 Application for Injection
Fresh Water Analysis (Water Well Sample)
Davis 516 Unit Well 1
Sec 8-T24S-R27E
Lat 32.227528 Long -104.212291**

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 #:	578341
Lease/Platform:	DAVIS 516 UNIT	Analysis ID #:	133296
Entity (or well #):	1	Analysis Cost:	\$90.00
Formation:	UNKNOWN		
Sample Point:	FRESH WATER		

Summary		Analysis of Sample 578341 @ 75 °F					
Sampling Date:	5/22/2013	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	6/12/2013	Chloride:	69.0	1.95	Sodium:	238.0	10.35
Analyst:	SANDRA GOMEZ	Bicarbonate:	244.0	4.	Magnesium:	89.0	7.32
		Carbonate:	0.0	0.	Calcium:	439.0	21.91
TDS (mg/l or g/m3):	2334.6	Sulfate:	1244.0	25.9	Strontium:	8.0	0.18
Density (g/cm3, tonne/m3):	1.002	Phosphate:			Barium:	0.1	0.
Anion/Cation Ratio:	1.2516530	Borate:			Iron:	0.5	0.02
		Silicate:			Potassium:	3.0	0.08
Carbon Dioxide:	0 PPM	Hydrogen Sulfide:		0 PPM	Aluminum:		
Oxygen:		pH at time of sampling:		7.6	Chromium:		
Comments:		pH at time of analysis:			Copper:		
		pH used in Calculation:		7.6	Lead:		
					Manganese:	0.025	0.
					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	0.79	17.48	-0.23	0.00	-0.30	0.00	-0.31	0.00	0.94	0.00	0.08
100	0	0.89	20.98	-0.24	0.00	-0.24	0.00	-0.30	0.00	0.79	0.00	0.11
120	0	1.00	25.18	-0.23	0.00	-0.15	0.00	-0.27	0.00	0.67	0.00	0.14
140	0	1.12	29.37	-0.21	0.00	-0.04	0.00	-0.24	0.00	0.57	0.00	0.19

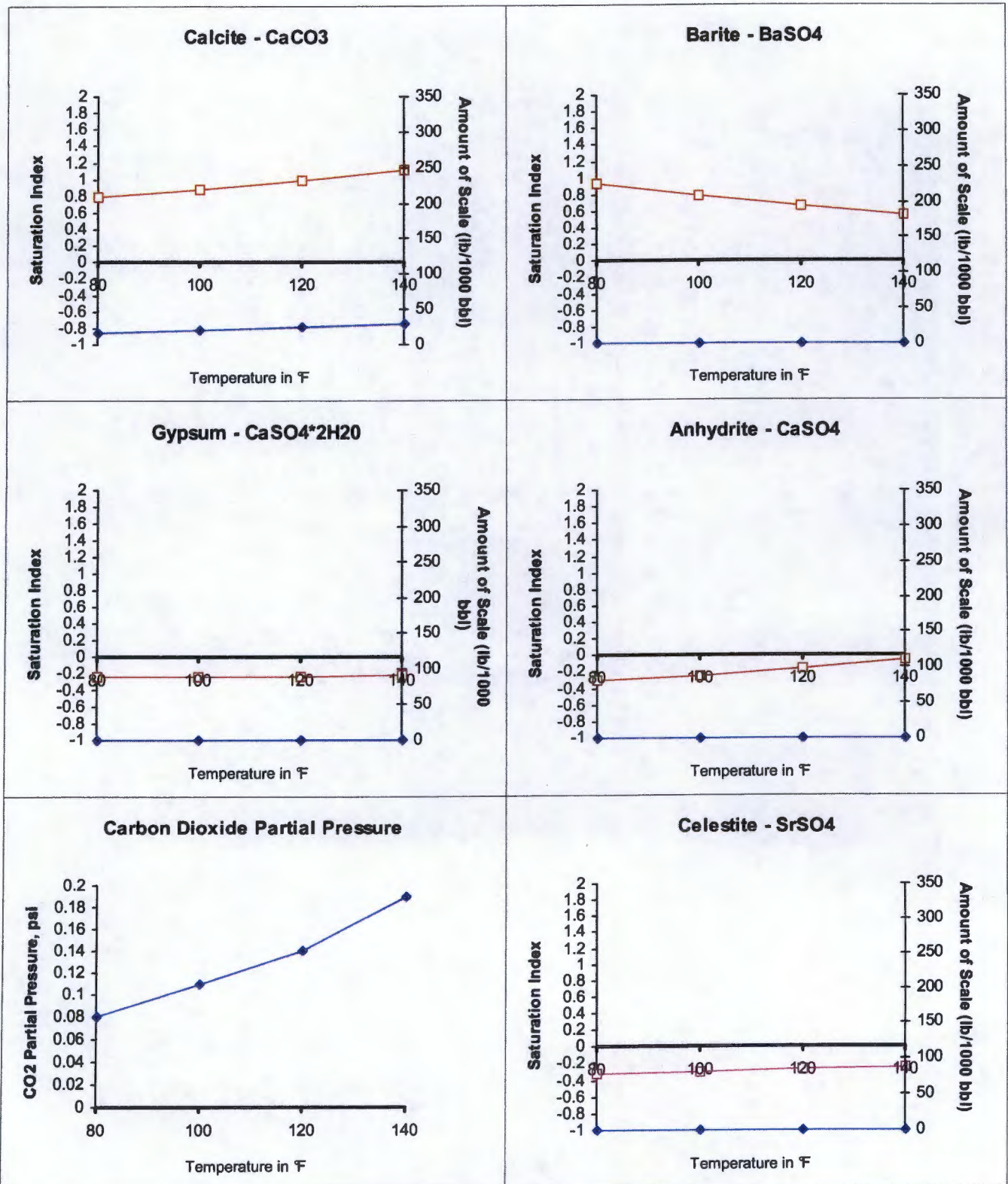
Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered.

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 578341 @ 75 °F for DEVON ENERGY CORPORATION, 6/12/2013



**Rosco 16 State SWD 1
C108 Application for Injection
Fresh Water Analysis (Water Well Sample)
Davis 516 Unit Well 2
Sec 8-T24S-R27E
Lat 32.227698 Long -104.212985**

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 #:	658181
Lease/Platform:	DAVIS 516 UNIT	Analysis ID #:	133297
Entity (or well #):	2	Analysis Cost:	\$90.00
Formation:	UNKNOWN		
Sample Point:	FRESH WATER		

Summary		Analysis of Sample 658181 @ 75 F					
Sampling Date:	5/22/2013	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	6/12/2013	Chloride:	199.0	5.61	Sodium:	245.0	10.66
Analyst:	SANDRA GOMEZ	Bicarbonate:	219.6	3.6	Magnesium:	120.0	9.87
TDS (mg/l or g/m3):	3142.4	Carbonate:	0.0	0.	Calcium:	731.0	36.48
Density (g/cm3, tonne/m3):	1.003	Sulfate:	1617.0	33.67	Strontium:	7.5	0.17
Anion/Cation Ratio:	1.335596	Phosphate:			Barium:	0.1	0.
		Borate:			Iron:	0.7	0.03
		Silicate:			Potassium:	2.5	0.06
Carbon Dioxide:	0 PPM	Hydrogen Sulfide:		0 PPM	Aluminum:		
Oxygen:		pH at time of sampling:		6.7	Chromium:		
Comments:		pH at time of analysis:			Copper:		
		pH used in Calculation:		6.7	Lead:		
					Manganese:	0.025	0.
					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	0.02	1.05	-0.01	0.00	-0.08	0.00	-0.34	0.00	0.94	0.00	0.54
100	0	0.15	5.94	-0.02	0.00	-0.02	0.00	-0.33	0.00	0.78	0.00	0.7
120	0	0.28	11.53	-0.01	0.00	0.06	83.51	-0.31	0.00	0.66	0.00	0.88
140	0	0.42	17.12	0.00	8.04	0.17	207.20	-0.28	0.00	0.56	0.00	1.06

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

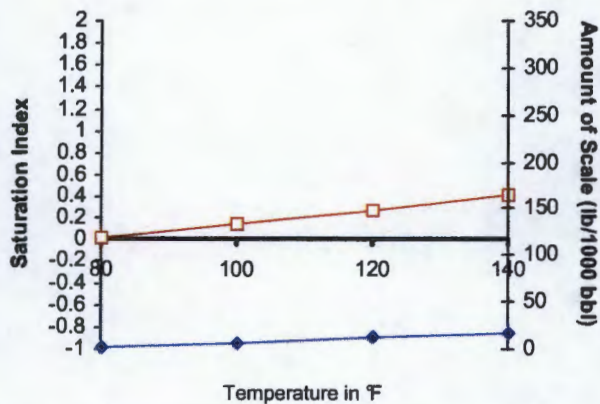
Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.

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

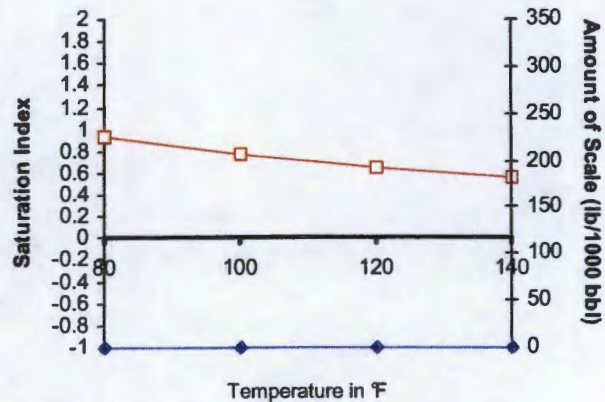
Scale Predictions from Baker Petrolite

Analysis of Sample 658181 @ 75 °F for DEVON ENERGY CORPORATION, 6/12/2013

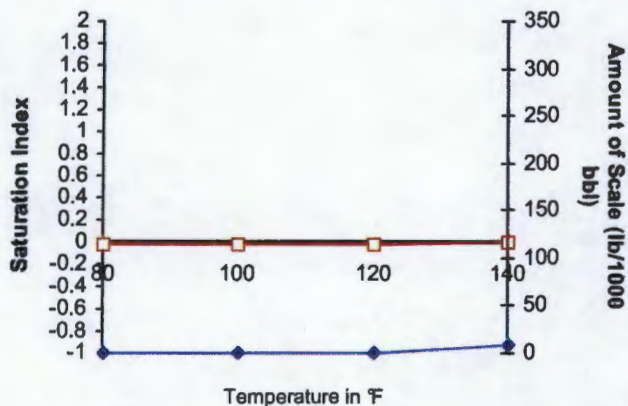
Calcite - CaCO_3



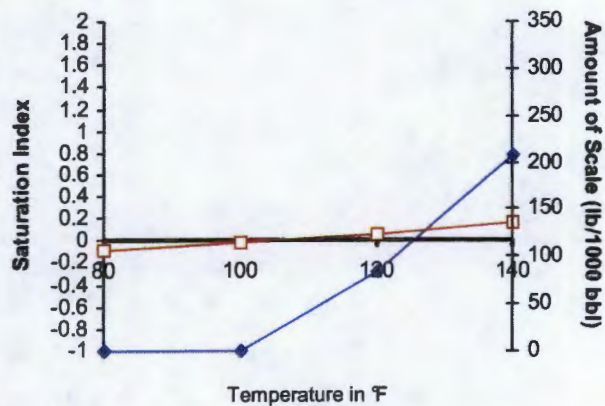
Barite - BaSO_4



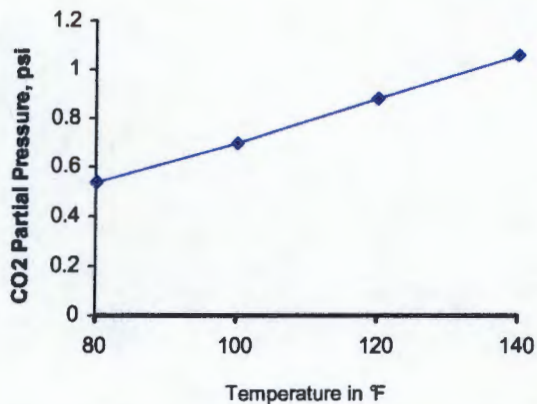
Gypsum - $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$



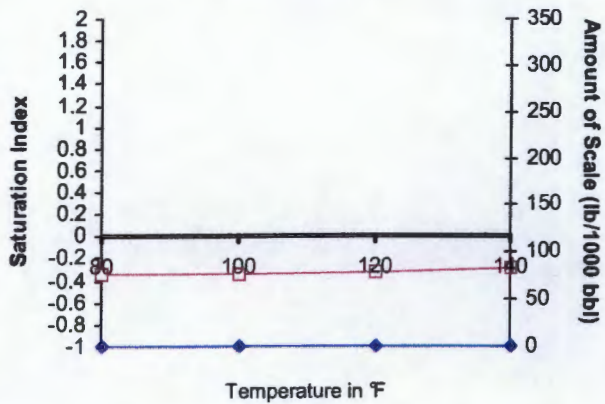
Anhydrite - CaSO_4



Carbon Dioxide Partial Pressure



Celestite - SrSO_4



**Rosco 16 State SWD 1
C108 Application for Injection
Fresh Water Analysis (Water Well Sample)
Davis 516 Unit Well 3 & 4
Sec 8-T24S-R27E
Lat 32.225503 Long -104.216621**

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 #:	652182
Lease/Platform:	DAVIS 516 UNIT	Analysis ID #:	133298
Entity (or well #):	3 & 4	Analysis Cost:	\$90.00
Formation:	UNKNOWN		
Sample Point:	FRESH WATER		

Summary		Analysis of Sample 652182 @ 75 °F					
Sampling Date:	5/22/2013	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	6/12/2013	Chloride:	113.0	3.19	Sodium:	236.0	10.27
Analyst:	SANDRA GOMEZ	Bicarbonate:	231.8	3.8	Magnesium:	122.0	10.04
TDS (mg/l or g/m3):	3027.9	Carbonate:	0.0	0.	Calcium:	630.0	31.44
Density (g/cm3, tonne/m3):	1.003	Sulfate:	1686.0	35.1	Strontium:	7.0	0.16
Anion/Cation Ratio:	1.2344527	Phosphate:			Barium:	0.1	0.
		Borate:			Iron:	0.5	0.02
		Silicate:			Potassium:	1.5	0.04
Carbon Dioxide:	0 PPM	Hydrogen Sulfide:		0 PPM	Aluminum:		
Oxygen:		pH at time of sampling:		6.7	Chromium:		
Comments:		pH at time of analysis:			Copper:		
		pH used in Calculation:		6.7	Lead:		
					Manganese:	0.025	0.
					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	-0.02	0.00	-0.04	0.00	-0.11	0.00	-0.33	0.00	0.97	0.00	0.58
100	0	0.10	4.54	-0.05	0.00	-0.05	0.00	-0.33	0.00	0.82	0.00	0.75
120	0	0.24	10.48	-0.04	0.00	0.04	45.43	-0.31	0.00	0.70	0.00	0.94
140	0	0.38	16.42	-0.02	0.00	0.14	168.78	-0.28	0.00	0.60	0.00	1.14

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

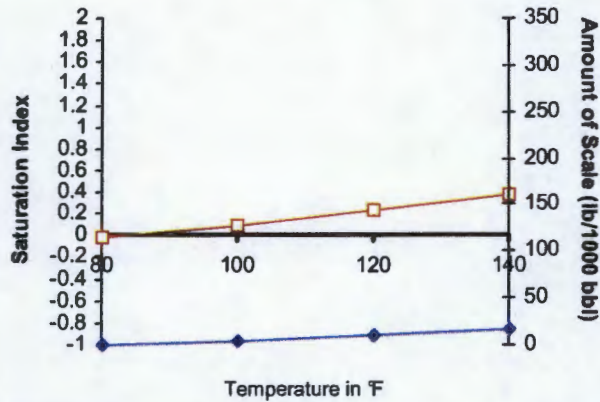
Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.

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

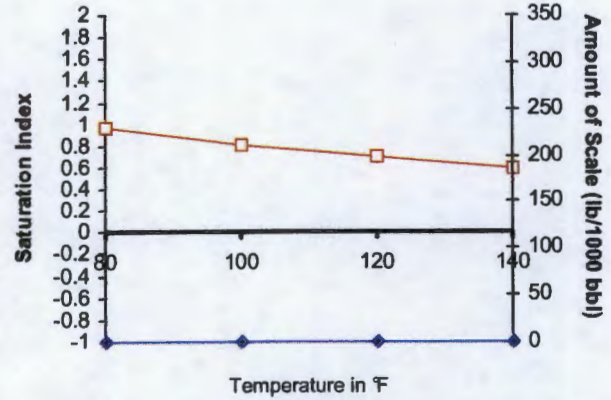
Scale Predictions from Baker Petrolite

Analysis of Sample 652182 @ 75 °F for DEVON ENERGY CORPORATION, 6/12/2013

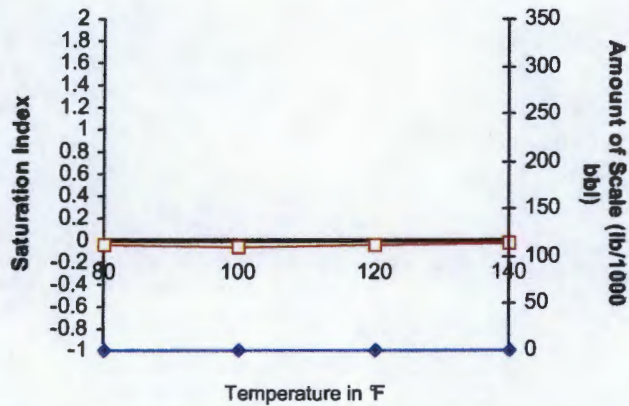
Calcite - CaCO_3



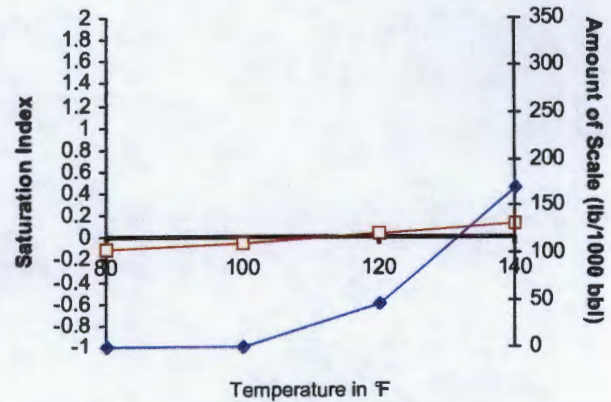
Barite - BaSO_4



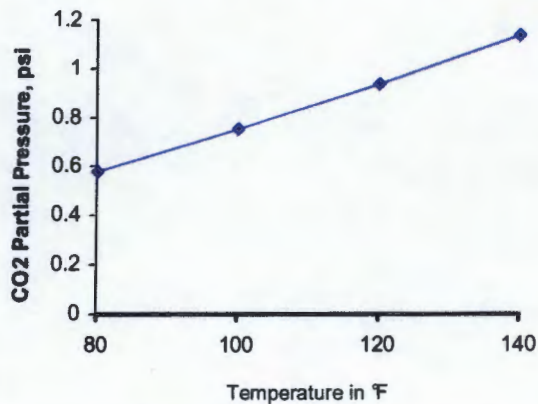
Gypsum - $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$



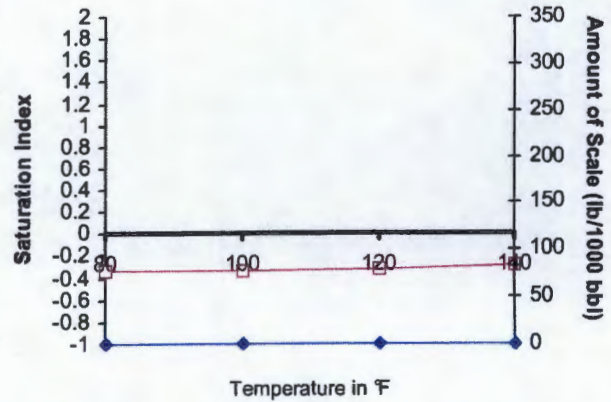
Anhydrite - CaSO_4



Carbon Dioxide Partial Pressure



Celestite - SrSO_4



Rosco 16 State SWD 1
C108 Application for Injection
Fresh Water Analysis (Water Well Sample)
Ogden Well
Sec 17-T24S-R27E
Lat 32.222586 Long -104.220867

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 #:	578340
Lease/Platform:	OGDEN UNIT	Analysis ID #:	133300
Entity (or well #):	WATER TANK	Analysis Cost:	\$90.00
Formation:	UNKNOWN		
Sample Point:	FRESH WATER		

Summary		Analysis of Sample 578340 @ 75 F					
Sampling Date:	5/22/2013	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	6/12/2013	Chloride:	83.0	2.34	Sodium:	252.0	10.96
Analyst:	SANDRA GOMEZ	Bicarbonate:	268.4	4.4	Magnesium:	174.0	14.31
TDS (mg/l or g/m3):	3314.7	Carbonate:	0.0	0.	Calcium:	644.0	32.14
Density (g/cm3, tonne/m3):	1.003	Sulfate:	1879.0	39.12	Strontium:	8.0	0.18
Anion/Cation Ratio:	1.2606503	Phosphate:			Barium:	0.1	0.
		Borate:			Iron:	5.5	0.2
		Silicate:			Potassium:	0.4	0.01
Carbon Dioxide:	0 PPM	Hydrogen Sulfide:		0 PPM	Aluminum:		
Oxygen:		pH at time of sampling:		7.8	Chromium:		
Comments:		pH at time of analysis:			Copper:		
		pH used in Calculation:		7.8	Lead:		
					Manganese:	0.300	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	1.11	25.15	-0.02	0.00	-0.09	0.00	-0.27	0.00	0.98	0.00	0.05
100	0	1.18	29.00	-0.03	0.00	-0.03	0.00	-0.26	0.00	0.83	0.00	0.08
120	0	1.26	33.19	-0.02	0.00	0.06	73.36	-0.24	0.00	0.71	0.00	0.11
140	0	1.36	37.73	0.00	0.00	0.16	197.03	-0.21	0.00	0.61	0.00	0.14

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

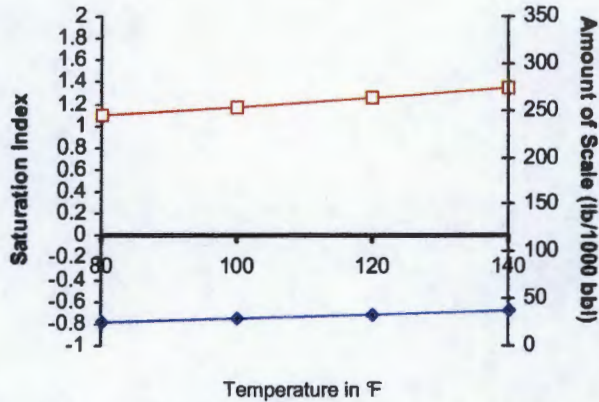
Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.

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

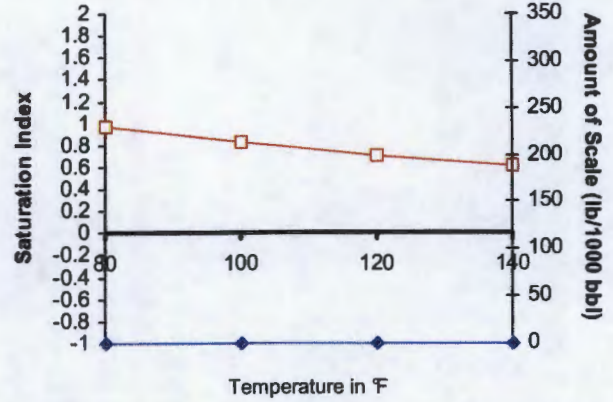
Scale Predictions from Baker Petrolite

Analysis of Sample 578340 @ 75 °F for DEVON ENERGY CORPORATION, 6/12/2013

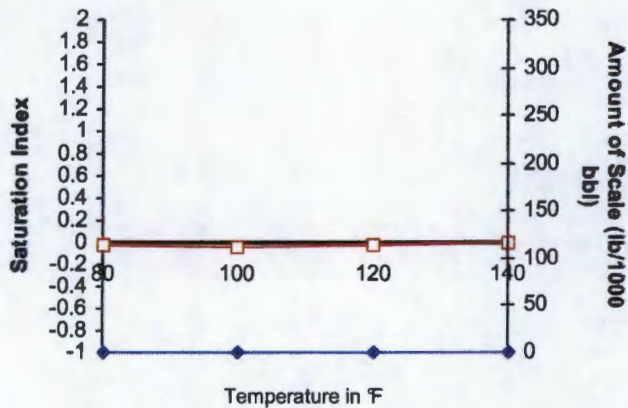
Calcite - CaCO_3



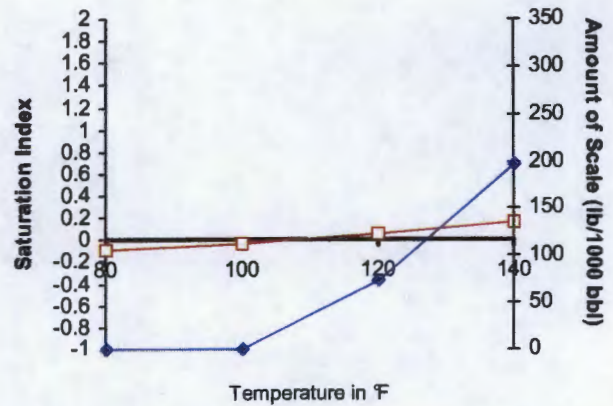
Barite - BaSO_4



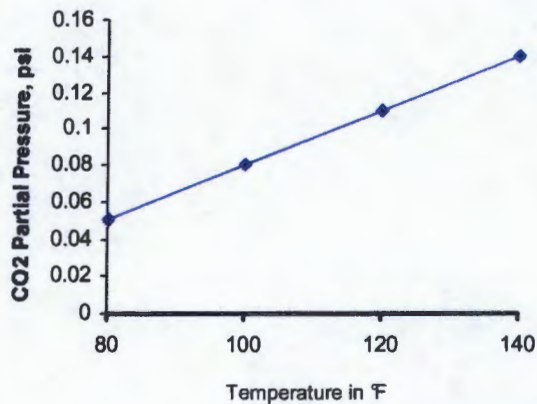
Gypsum - $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$



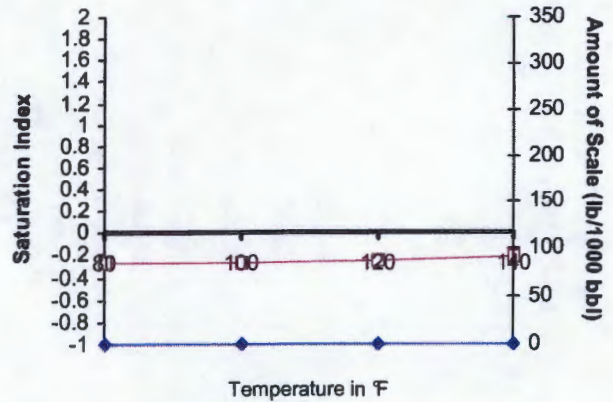
Anhydrite - CaSO_4



Carbon Dioxide Partial Pressure



Celestite - SrSO_4



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:

April 3 2014

That the cost of publication is \$64.08 and that payment thereof has been made and will be assessed as court costs.

Kathy McCarroll

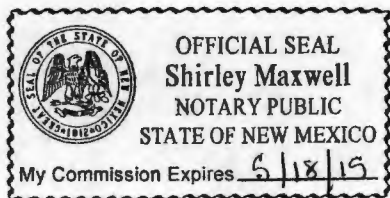
Subscribed and sworn to before me this

11th day of April, 2014

Shirley Maxwell

My commission Expires on May 18, 2015

Notary Public



April 3, 2014

Legal Notice

Devon Energy Production Company, LP, 333 West Sheridan Avenue, Oklahoma City, OK 73102-8260 has filed form C-106 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for an injection well. The proposed well, the Rosco 16 State SWD #1 will be a new drill; the proposed location is 1665' 55L & 600' FWL, Section 16, Township 23 South, Range 26 East, in Eddy County, New Mexico. Disposal water will be sourced from area wells producing from the Bone Spring and Delaware formations. The disposal water will be injected into the Silurian/Ordovician formation at a depth of 12,400' to 15,103', at a maximum surface pressure of 2,480 psi and a maximum rate of 20,000 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. Per NMAC 19.5.26.13, Devon will comply with the pro-

visions of commencement, discontinuance and abandonment of injection operations. Any interested party with questions or comments may contact Josh Bruening at Devon Energy Corporation, 333 West Sheridan, Oklahoma City, OK 73102, or call (405) 552-7882 or (405)-501-3236.



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

405 235 3611 Phone
www.devonenergy.com

May 12th, 2014

Anges Cluthe Oliver Trust
2626 Cole Avenue, Suite 705
Dallas, TX 75204

RE: Form C-108, Application for Authorization to Inject
Rosco 16 State SWD #1; API # 30-015-
Eddy County, NM
Section 16, T23S, R26E

Dear Anges Cluthe Oliver Trust:

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 Rosco 16 State SWD #1 to salt water disposal in the Silurian/Ordovician 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 Rosco 16 State SWD #1 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 Josh Bruening at (405)-552-7882 or myself at (405)-552-7802.

Sincerely,

A handwritten signature in black ink, appearing to read "S. Porter", with a long, sweeping 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

May 12th, 2014

Axis Energy Corporation
P.O. Box 2107
Roswell, NM 88202

RE: Form C-108, Application for Authorization to Inject
Rosco 16 State SWD #1; API # 30-015-
Eddy County, NM
Section 16, T23S, R26E

Dear Axis Energy Corporation:

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 Rosco 16 State SWD #1 to salt water disposal in the Silurian/Ordovician 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 Rosco 16 State SWD #1 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 Josh Bruening at (405)-552-7882 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

May 12th, 2014

Black Stone Energy Company
1001 Fannin, Suite 2020
Houston, TX 77002

RE: Form C-108, Application for Authorization to Inject
Rosco 16 State SWD #1; API # 30-015-
Eddy County, NM
Section 16, T23S, R26E

Dear Black Stone Energy Company:

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 Rosco 16 State SWD #1 to salt water disposal in the Silurian/Ordovician 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 Rosco 16 State SWD #1 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 Josh Bruening at (405)-552-7882 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

May 12th, 2014

Brian D. Woehler Trust
c/o Steve Fillenwarth, Trustee
9840 Westpoint Drive, Suite 200
Indianapolis, IN 46256

RE: Form C-108, Application for Authorization to Inject
Rosco 16 State SWD #1; API # 30-015-
Eddy County, NM
Section 16, T23S, R26E

Dear Brian D. Woehler Trust:

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 Rosco 16 State SWD #1 to salt water disposal in the Silurian/Ordovician 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 Rosco 16 State SWD #1 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 Josh Bruening at (405)-552-7882 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

May 12th, 2014

Ernie Bello
1570 Alewa Drive
Irvine, CA 96817

RE: Form C-108, Application for Authorization to Inject
Rosco 16 State SWD #1; API # 30-015-
Eddy County, NM
Section 16, T23S, R26E

Dear Ernie Bello:

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 Rosco 16 State SWD #1 to salt water disposal in the Silurian/Ordovician 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 Rosco 16 State SWD #1 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 Josh Bruening at (405)-552-7882 or myself at (405)-552-7802.

Sincerely,

A handwritten signature in black ink, appearing to read "SAP", followed by a long horizontal line.

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

May 12th, 2014

Frances B. Bunn Revocable Trust
2493 Makiki Heights Drive
Honolulu, HI 96822

RE: Form C-108, Application for Authorization to Inject
Rosco 16 State SWD #1; API # 30-015-
Eddy County, NM
Section 16, T23S, R26E

Dear Frances B. Bunn Revocable Trust:

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 Rosco 16 State SWD #1 to salt water disposal in the Silurian/Ordovician 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 Rosco 16 State SWD #1 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 Josh Bruening at (405)-552-7882 or myself at (405)-552-7802.

Sincerely,

A handwritten signature in black ink, appearing to read "SAP", with 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

May 12th, 2014

Judith C. Devine Trust
2626 Cole Avenue, Suite 705
Dallas, TX 75204

RE: Form C-108, Application for Authorization to Inject
Rosco 16 State SWD #1; API # 30-015-
Eddy County, NM
Section 16, T23S, R26E

Dear Judith C. Devine Trust:

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 Rosco 16 State SWD #1 to salt water disposal in the Silurian/Ordovician 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 Rosco 16 State SWD #1 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 Josh Bruening at (405)-552-7882 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

May 12th, 2014

Nadel & Gussman Permian, LLC
15 E. 5th, Suite 3200
Tulsa, OK 74103

RE: Form C-108, Application for Authorization to Inject
Rosco 16 State SWD #1; API # 30-015-
Eddy County, NM
Section 16, T23S, R26E

Dear Nadell & Gussman Permian, 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 Rosco 16 State SWD #1 to salt water disposal in the Silurian/Ordovician 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 Rosco 16 State SWD #1 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 Josh Bruening at (405)-552-7882 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

May 12th, 2014

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

RE: Form C-108, Application for Authorization to Inject
Rosco 16 State SWD #1; API # 30-015-
Eddy County, NM
Section 16, T23S, R26E

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 Rosco 16 State SWD #1 to salt water disposal in the Silurian/Ordovician 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 Josh Bruening at (405)-552-7882 or myself at (405)-552-7802.

Sincerely,

A handwritten signature in black ink, appearing to read "SAP" followed by a long horizontal stroke.

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

May 12th, 2014

RKI Exploration
210 Park Avenue, Ste 900
Oklahoma City, OK 73102

RE: Form C-108, Application for Authorization to Inject
Rosco 16 State SWD #1; API # 30-015-
Eddy County, NM
Section 16, T23S, R26E

Dear RKI Exploration:

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 Rosco 16 State SWD #1 to salt water disposal in the Silurian/Ordovician 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 Rosco 16 State SWD #1 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 Josh Bruening at (405)-552-7882 or myself at (405)-552-7802.

Sincerely,

A handwritten signature in black ink, appearing to read "SAP", followed by a diagonal slash and a period.

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

May 12th, 2014

Robert B. Oliver Trust
2626 Cole Avenue, Suite 705
Dallas, TX 75204

RE: Form C-108, Application for Authorization to Inject
Rosco 16 State SWD #1; API # 30-015-
Eddy County, NM
Section 16, T23S, R26E

Dear Robert B. Oliver Trust:

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 Rosco 16 State SWD #1 to salt water disposal in the Silurian/Ordovician 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 Rosco 16 State SWD #1 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 Josh Bruening at (405)-552-7882 or myself at (405)-552-7802.

Sincerely,

A handwritten signature in black ink, appearing to read "S. Porter", followed by a period.

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

May 12th, 2014

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

RE: Form C-108, Application for Authorization to Inject
Rosco 16 State SWD #1; API # 30-015-
Eddy County, NM
Section 16, T23S, R26E

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 Rosco 16 State SWD #1 to salt water disposal in the Silurian/Ordovician 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 Josh Bruening at (405)-552-7882 or myself at (405)-552-7802.

Sincerely,

A handwritten signature in black ink, appearing to read "S. Porter", with a long, sweeping 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

May 12th, 2014

Turnco, Inc.
4722 Taft Blvd
Wichita Falls, TX 76308

RE: Form C-108, Application for Authorization to Inject
Rosco 16 State SWD #1; API # 30-015-
Eddy County, NM
Section 16, T23S, R26E

Dear Turnco, Inc.:

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 Rosco 16 State SWD #1 to salt water disposal in the Silurian/Ordovician 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 Rosco 16 State SWD #1 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 Josh Bruening at (405)-552-7882 or myself at (405)-552-7802.

Sincerely,

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

Stephanie A. Porter
Operations Technician

SP/sp
Enclosure



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

405 235 3611 Phone
www.devonenergy.com

May 12th, 2014

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
Rosco 16 State SWD #1; API # 30-015-
Eddy County, NM
Section 16, T23S, R26E; 1665' FSL & 600' FWL

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 Rosco 16 State SWD # to salt water disposal. Produced waters will be injected into the Silurian/Ordovician from 12535' to 13435'.

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 Josh Bruening at (405)-552-7882 or myself at (405)-552-7802.

Sincerely,

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

Stephanie A. Porter
Operations Technician

SP/sp
Enclosure

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) 334-6178 Fax:(505) 334-6170**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
August 1, 2011

Permit 185868

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 Rosco 16 State SWD	6. Well No. 001

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
L	16	23S	26E		1665	S	600	W	EDDY

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
L	16	23S	26E	L	1665	S	600	W	Eddy

9. Pool Information

SWD;CANYON-MOR-DEV-ELLEN	96189
--------------------------	-------

Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3371
16. Multiple N	17. Proposed Depth 15103	18. Formation Simpson	19. Contractor	20. Spud Date 6/8/2014
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	180	470	0
Int1	17.5	13.375	68	1470	910	0
Int2	12.25	9.625	47	8800	1800	970
Prod	8.5	7	29	12403	550	8300
Prod	5.875	0	0	15103	0	0

Casing/Cement Program: Additional Comments

THIS IS AN SWD WELL "9-5/8" Intermediate and 7" production casing are actually "HCP-110", which did not fit. **Last production "string" shown is actually an open hole completion for salt water injection ***Complete Drilling plan was mailed to Artesia NMOC field office on 5/8/14. Two stage 2nd intermediate cementing option is included. Notes: • Cement volumes Surface 100%, Intermediate #1 75%, Intermediate #2 50% and Production based on at least 25% excess. • Actual cement volumes will be adjusted based on fluid caliper and/or caliper log data. • If lost severe circulation is encountered while drilling the intermediate wellbore, a DV tool will be installed a minimum of 50' below the previous casing shoe and of 200' above the current shoe. If the DV tool has to be moved, the cement volumes will be adjusted proportionately.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	2000	2000	
Double Ram	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 I
1625 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 Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code 96189		³ Pool Name SWD: CANYON-MOR-DEV-ELLEN					
⁴ Property Code		⁵ Property Name ROSCO 16 STATE SWD						⁶ Well Number 1	
⁷ OGRID No. 6137		⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.						⁹ Elevation 3371.1	
¹⁰ Surface Location									
UL or lot no. L	Section 16	Township 23 S	Range 26 E	Lot Idn	Feet from the 1665	North/South line SOUTH	Feet from the 600	East/West line WEST	County EDDY
¹¹ 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
¹² Dedicated Acres 40AC		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.

S89°54'39"E 2669.28 FT		S89°53'36"E 2670.95 FT	
NW CORNER SEC. 16 LAT. = 32.3116155°N LONG. = 104.3069454°W NMSP EAST (FT) N = 477099.10 E = 549489.67	N Q CORNER SEC. 16 LAT. = 32.3116020°N LONG. = 104.2983073°W NMSP EAST (FT) N = 477094.95 E = 552158.28	NE CORNER SEC. 16 LAT. = 32.3115857°N LONG. = 104.2896638°W NMSP EAST (FT) N = 477089.98 E = 554828.56	
<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>			
W Q CORNER SEC. 16 LAT. = 32.3042574°N LONG. = 104.3069607°W NMSP EAST (FT) N = 474422.31 E = 549485.58	E Q CORNER SEC. 16 LAT. = 32.3042571°N LONG. = 104.2896589°W NMSP EAST (FT) N = 474423.96 E = 554831.17		
<p>SURFACE LOCATION</p> <p>ROSCO "16" STATE SWD #1 ELEV. = 3371.1' LAT. = 32.3014736°N (NAD83) LONG. = 104.3050232°W NMSP EAST (FT) N = 473409.78 E = 550084.48</p>			
SW CORNER SEC. 16 LAT. = 32.2968944°N LONG. = 104.3069714°W NMSP EAST (FT) N = 471743.78 E = 549482.95	S Q CORNER SEC. 16 LAT. = 32.2969100°N LONG. = 104.2983137°W NMSP EAST (FT) N = 471750.19 E = 552158.03	SE CORNER SEC. 16 LAT. = 32.2969263°N LONG. = 104.2896540°W NMSP EAST (FT) N = 471757.12 E = 554833.78	
S89°51'44"W 2675.75 FT		S89°51'06"W 2676.40 FT	

¹⁷ OPERATOR CERTIFICATION
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased 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.

5/8/14

Signature _____ Date _____

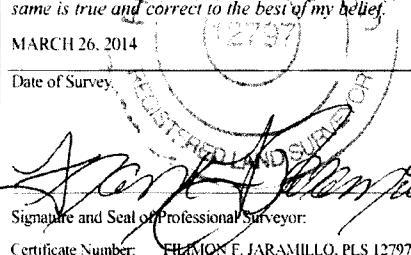
Ryan DeLong - Regulatory Coordinator
Printed Name _____

ryan.delong@dvn.com
E-mail Address _____

¹⁸ SURVEYOR CERTIFICATION
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

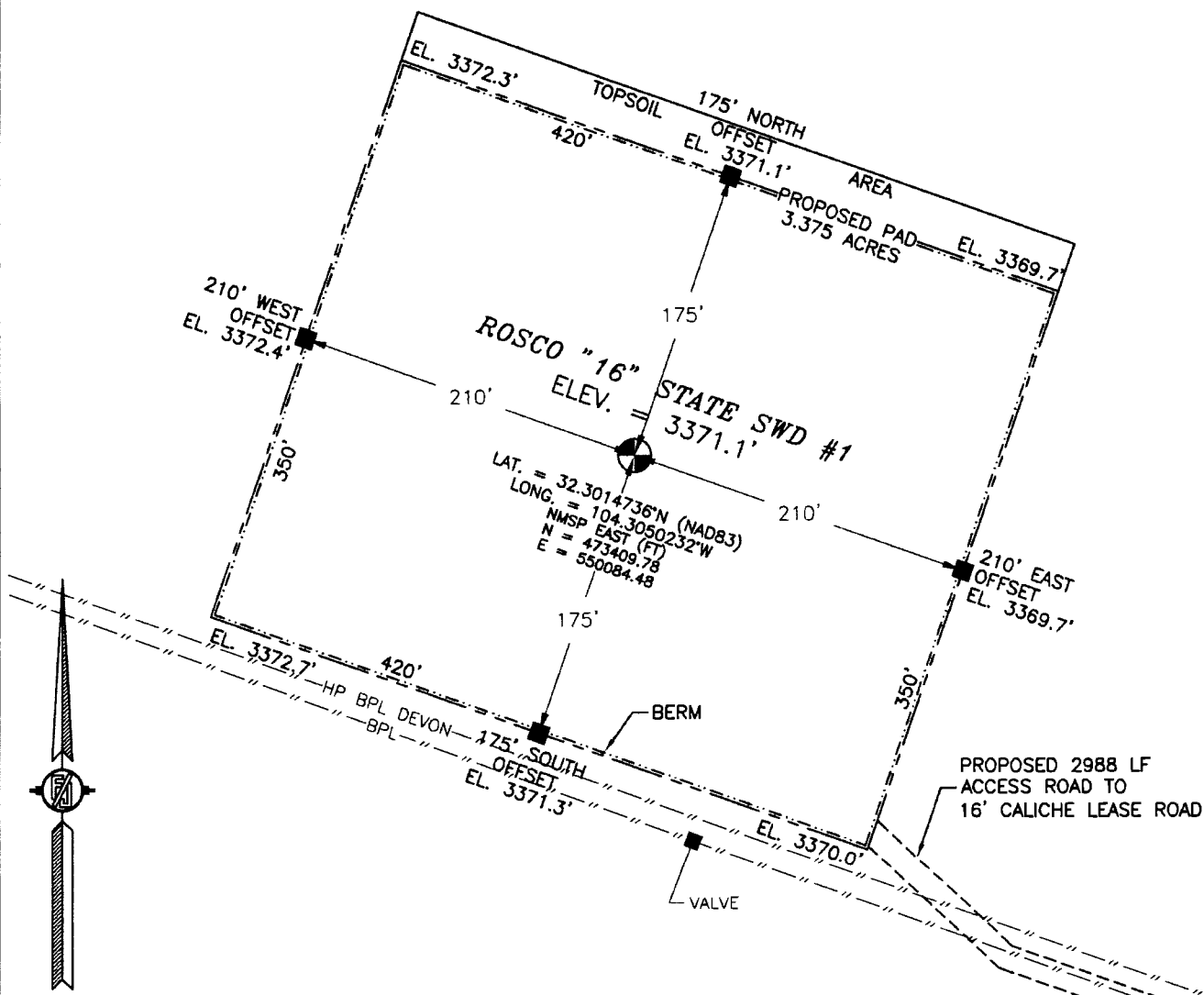
MARCH 26, 2014

Date of Survey _____


E. Jaramillo
 Signature and Seal of Professional Surveyor:
 Certificate Number: E. JARAMILLO, PLS 12797
 SURVEY NO. 2723

SECTION 16, TOWNSHIP 23 SOUTH, RANGE 26 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 (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE



010 50 100 200

SCALE 1" = 100'
DIRECTIONS TO LOCATION

ABOUT 200' NORTH OF MILE MARKER 27 ON SOUTH BOUND LANE OF US HIGHWAY 82-180 (NATIONAL PARKS HIGHWAY) TURN RIGHT ON CALICHE LEASE ROAD, GO WEST ABOUT 1.45 MILES TO ROAD INTERSECTION, TURN LEFT GO SOUTH 0.50 MILES TO EXISTING PAD. GO TO EXISTING BPL ROAD SOUTH OF PAD TURN RIGHT GO NORTHWEST 0.49 MILES TO SOUTHEAST CORNER OF PROPOSED PAD.

DEVON ENERGY PRODUCTION COMPANY, L.P.
ROSCO "16" STATE SWD #1
LOCATED 1665 FT. FROM THE SOUTH LINE
AND 600 FT. FROM THE WEST LINE OF
SECTION 16, TOWNSHIP 23 SOUTH,
RANGE 26 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

MARCH 26, 2014

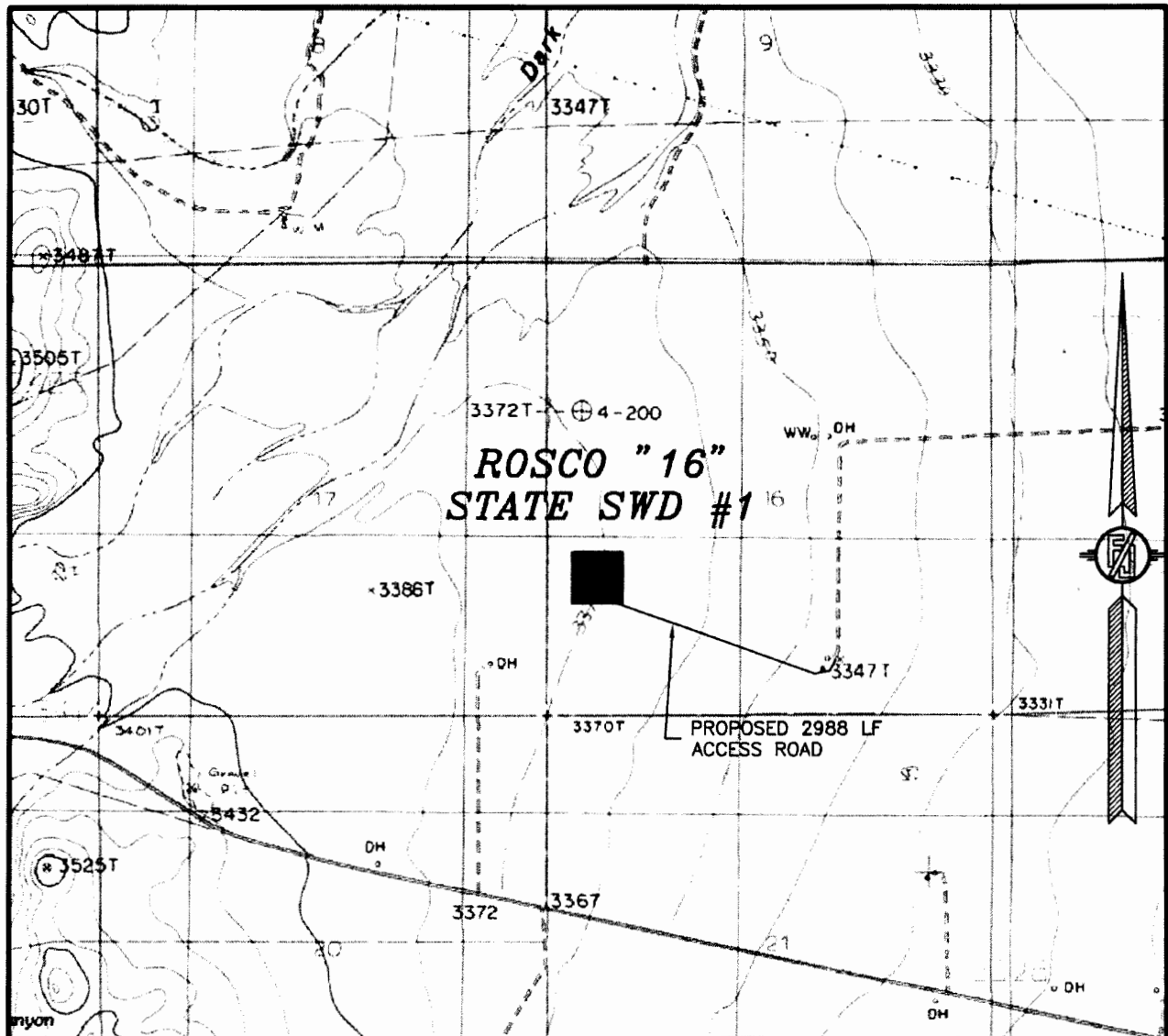
SURVEY NO. 2723

MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

CARLSBAD, NEW MEXICO

SECTION 16, TOWNSHIP 23 SOUTH, RANGE 26 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
LOCATION VERIFICATION MAP



USGS QUAD MAP:
KITCHEN COVE

NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.

ROSCO "16" STATE SWD #1

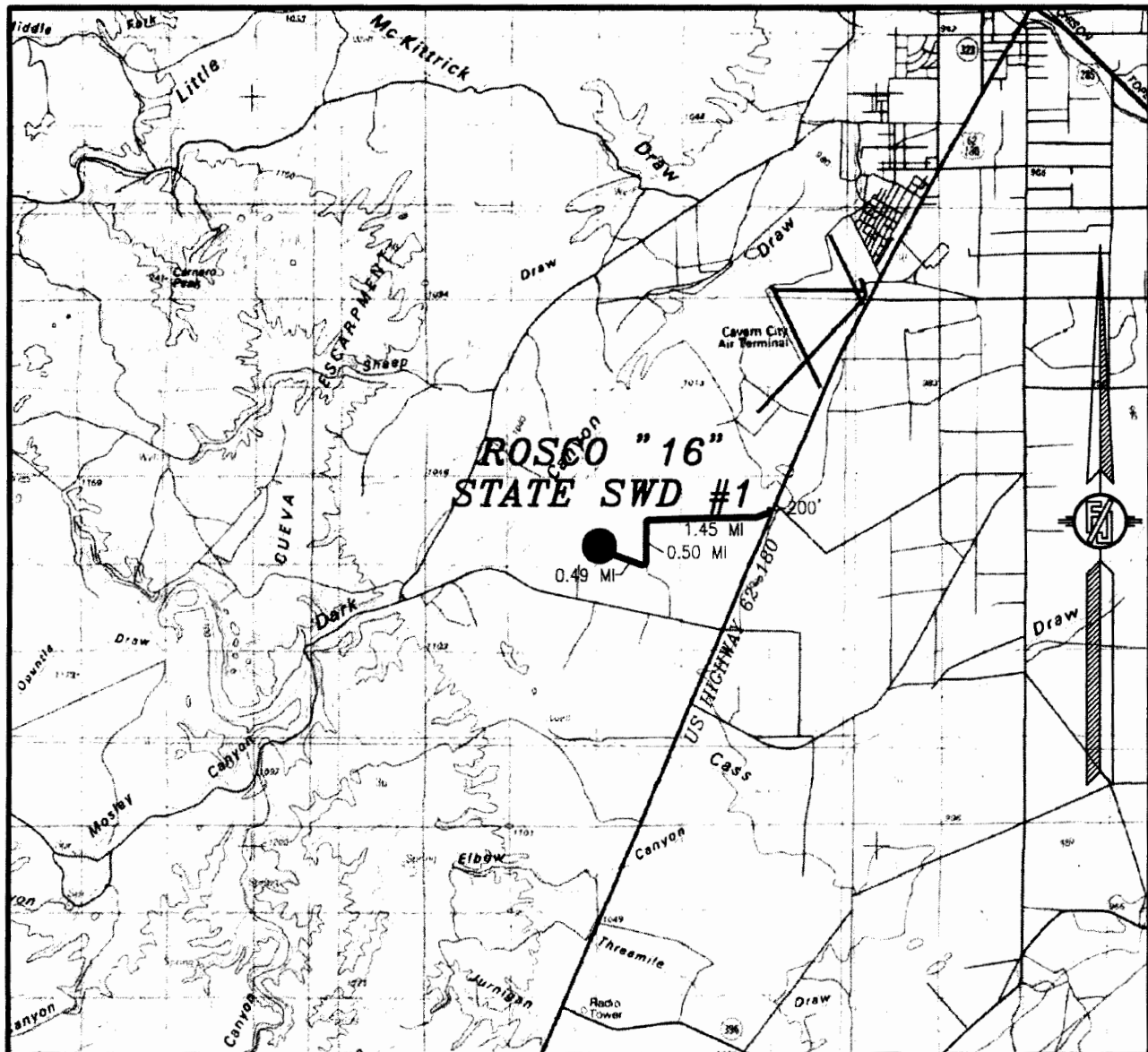
LOCATED 1665 FT. FROM THE SOUTH LINE
AND 600 FT. FROM THE WEST LINE OF
SECTION 16, TOWNSHIP 23 SOUTH,
RANGE 26 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

MARCH 26, 2014

SURVEY NO. 2723

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

SECTION 16, TOWNSHIP 23 SOUTH, RANGE 26 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
VICINITY MAP



DISTANCES IN MILES

NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.

ROSCO "16" STATE SWD #1

LOCATED 1665 FT. FROM THE SOUTH LINE
AND 600 FT. FROM THE WEST LINE OF
SECTION 16, TOWNSHIP 23 SOUTH,
RANGE 26 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

DIRECTIONS TO LOCATION

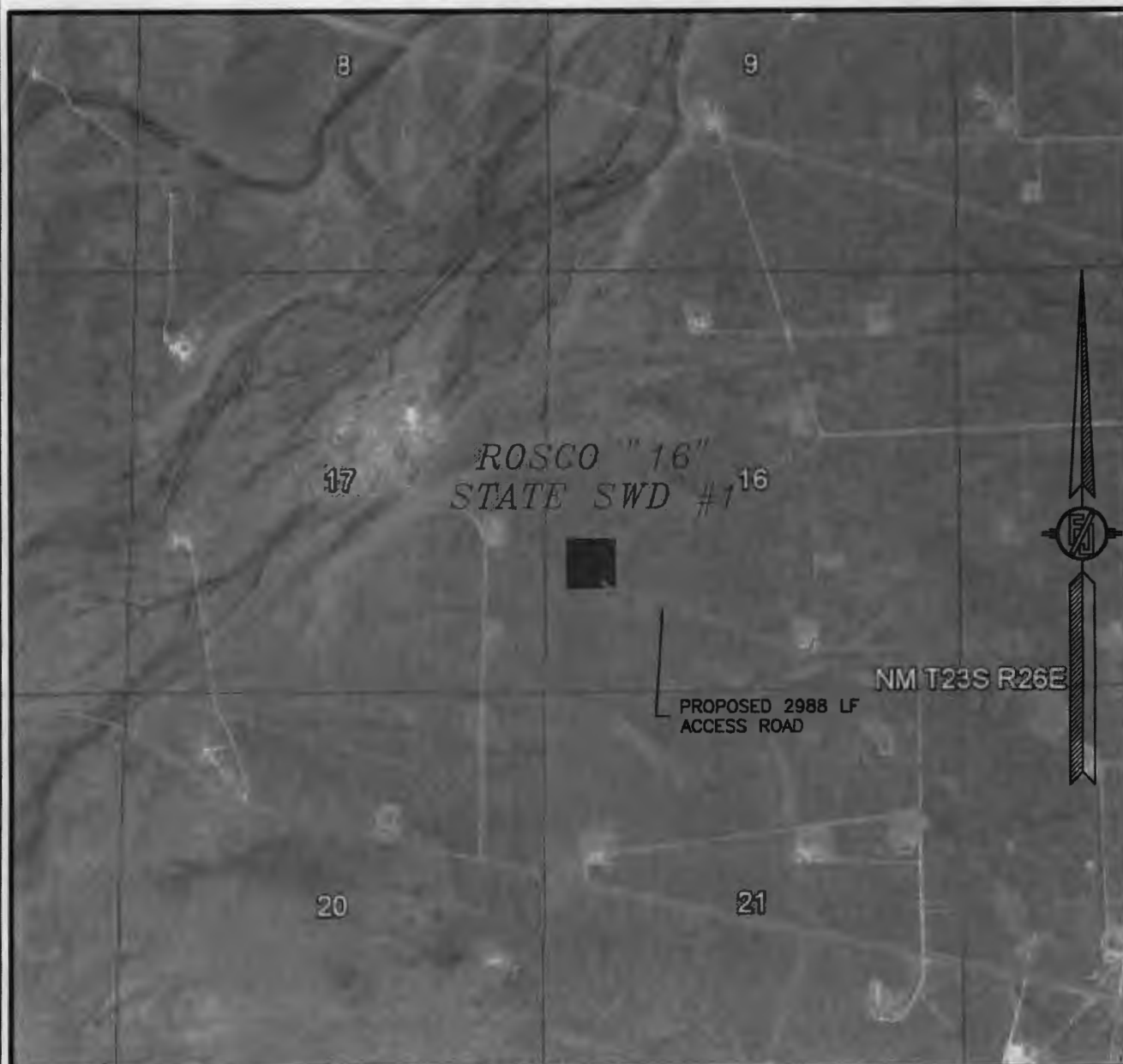
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GO TO EXISTING BPL ROAD SOUTH OF PAD TURN RIGHT GO
NORTHWEST 0.49 MILES TO SOUTHEAST CORNER OF PROPOSED PAD.

MARCH 26, 2014

SURVEY NO. 2723

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

SECTION 16, TOWNSHIP 23 SOUTH, RANGE 26 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
AERIAL PHOTO



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
APRIL 2013

DEVON ENERGY PRODUCTION COMPANY, L.P.

ROSCO "16" STATE SWD #1

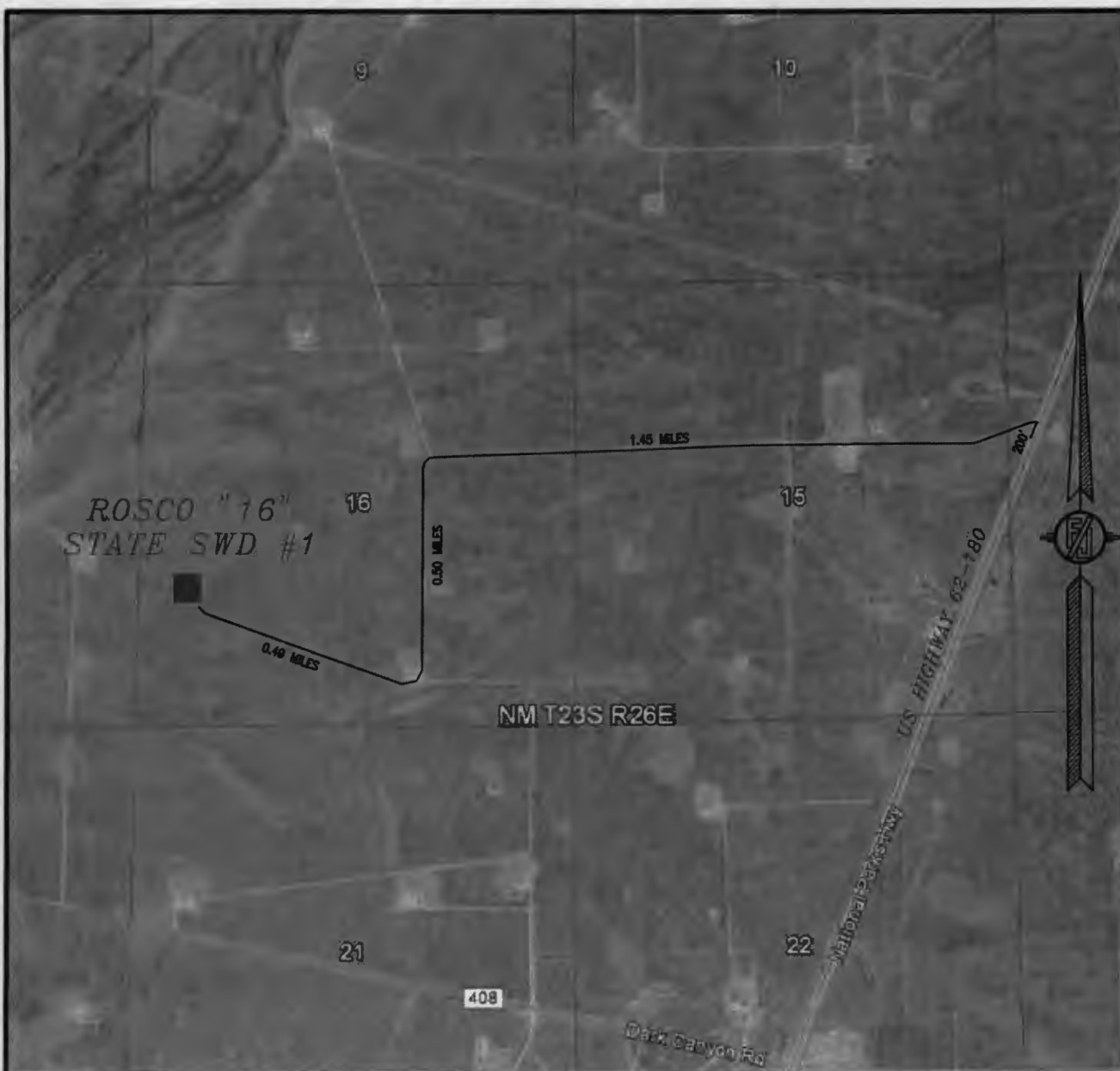
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AND 600 FT. FROM THE WEST LINE OF
SECTION 16, TOWNSHIP 23 SOUTH,
RANGE 26 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

MARCH 26, 2014

SURVEY NO. 2723

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

SECTION 16, TOWNSHIP 23 SOUTH, RANGE 26 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO
 ACCESS AERIAL ROUTE MAP



NOT TO SCALE
 AERIAL PHOTO:
 GOOGLE EARTH
 APRIL 2013

DEVON ENERGY PRODUCTION COMPANY, L.P.

ROSCO "16" STATE SWD #1

LOCATED 1665 FT. FROM THE SOUTH LINE

AND 600 FT. FROM THE WEST LINE OF

SECTION 16, TOWNSHIP 23 SOUTH,

RANGE 26 EAST, N.M.P.M.

EDDY COUNTY, STATE OF NEW MEXICO

MARCH 26, 2014

SURVEY NO. 2723

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

ROSCO 16 STATE SWD 1-APD DRILLING PLAN

Casing Program

Hole Size	Hole Interval	OD Csg	Casing Interval	Weight	Collar	Grade
26"	0 – 180	20"	0 – 180	94#	BTC	J-55
17-1/2"	180 – 1470	13-3/8"	0 – 1470	68#	STC	J/K-55
12-1/4"	1470 – 8800	9-5/8"	0 – 8800	47#	LTC	HCP-110
8-1/2"	8800 – 12403	7"	0 – 12403	29#	BTC	HCP-110
5-7/8"	12403' – 15103'	Open hole completion				

Note: This will be an open hole completion, thus the hole interval is deeper than the 7" production casing depth

Casing Size	Collapse Design Factor	Burst Design Factor	Tension Design Factor
20", 94#, J-55, BT&C	5.79	23.48	82.86
13-3/8", 68#, J/K-55, BT&C	2.55	4.51	11.40
9-5/8", 47#, HCP-110, LT&C	1.63	2.17	2.93
7", 29#, HCP-110, BT&C	1.19	1.45	2.58

The maximum possible collapse load that the intermediate casing will experience will result from evacuated casing with the pore pressure exerting a collapse load at TD. There is no potential for the intermediate casing strings to be used as the injection string.

Mud Program:

Depth	Mud Wt.	Visc.	Fluid Loss	Type System
0 – 180	8.4 – 8.8	30 – 34	N/C	FW
180 – 1470	10	28 – 32	N/C	Brine
1470 – 8800	8.8 – 9.5	28 – 30	N/C	FW
8800 – 12403	10 – 12	28 – 30	N/C	FW
12403 – 15103	8.4 – 8.8	28 – 30	N/C	FW

Pressure Control Equipment:

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 a 2M system per BLM Onshore Oil and Gas Order 2 prior to drilling out the casing shoe.

A 5M 13-5/8" BOP system (Double Ram and Annular preventer) will be installed and tested prior to drilling out the first and second intermediate hole sections. The BOP system will be tested as a 5M system per BLM Onshore Oil and Gas Order 2 prior to drilling out the casing shoes.

The pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. 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.

Devon requests a variance to use a flexible line with flanged ends between the BOP and the choke manifold (choke line); if an H&P rig drills this well. Otherwise no flex line is needed. The line will be kept as straight as possible with minimal turns.

String	Number of sx	Weight lbs/gal	Water Volume g/sx	Yield cf/sx	Stage; Lead/Tail	Slurry Description
20" Surface Casing	470	14.8	6.34	1.34	Tail	Class C Cement + 1% Calcium Chloride + 64.2% Fresh Water
13-3/8" 1 st Intermediate Casing	620	12.9	9.82	1.85	Lead	(65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake + 70.9 % Fresh Water
	490	14.8	6.34	1.33	Tail	Class C Cement + 0.125 lbs/sack Poly-E-Flake + 63.5% Fresh Water
9-5/8" 2 nd Intermediate Casing	1400	11.9	12.89	2.26	Lead	(50:50) Class H Cement: Poz (Fly Ash) + 10% BWOC Bentonite + 1 lb/sk of Kol-Seal + 0.3% BWOC HR-601 + 0.5lb/sk D-Air 5000 + 76.4% Fresh Water
	400	14.4	5.75	1.24	Tail	50% Premium H / 50% PozMix + 0.2% BWOC Halad-9 + 0.2% BWOC HR-800 + 64.7% Fresh Water
9-5/8" 2 nd Intermediate Casing Two-Stage Option	790	11.9	12.89	2.26	Lead	(50:50) Class H Cement: Poz (Fly Ash) + 10% BWOC Bentonite + 1 lb/sk of Kol-Seal + 0.3% BWOC HR-601 + 0.5lb/sk D-Air 5000 + 76.4% Fresh Water
	210	14.4	5.75	1.24	Tail	50% Premium H / 50% PozMix + 0.2% BWOC Halad-9 + 0.2% BWOC HR-800 + 64.7% Fresh Water
	DV Tool at 4500ft					
	610	11.9	12.89	2.26	Lead	(50:50) Class H Cement: Poz (Fly Ash) + 10% BWOC Bentonite + 1 lb/sk of Kol-Seal + 0.3% BWOC HR-601 + 0.5lb/sk D-Air 5000 + 76.4% Fresh Water
	180	14.8	6.34	1.33	Tail	Class C Cement + 0.125 lbs/sack Poly-E-Flake + 63.5% Fresh Water
7" Production Casing	550	14.5	5.32	1.21	Tail	(50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.25% bwoc CFR-3 + 0.2% bwoc HR-601 + 2% bwoc Bentonite + 58.8% Fresh Water

TOC for all Strings:

20" Surface Casing	0ft
13-3/8" 1 st Intermediate Casing	0ft
9-5/8" 2 nd Intermediate Casing	970ft
7" Production Casing	8300ft

Notes:

- Cement volumes Surface 100%, Intermediate #1 75%, Intermediate #2 50% and Production based on at least 25% excess.
- Actual cement volumes will be adjusted based on fluid caliper and/or caliper log data.
- If lost severe circulation is encountered while drilling the intermediate wellbore, a DV tool will be installed a minimum of 50'

below the previous casing shoe and of 200' above the current shoe. If the DV tool has to be moved, the cement volumes will be adjusted proportionately.



C-108 Review Checklist: Received 5/13/14 Add. Request: — Reply Date: — Suspended: — [Ver 13]

PERMIT TYPE: WFX / PMX / SWD Number: 1497 Permit Date: 09/09/14 Legacy Permits/Orders: NA

Well No. 1 Well Name(s): Rosco 16 State SWD

API: 30-015-Pending Spud Date: TBD New or Old: New (UIC Class II Primacy 03/07/1982)

Footages 1665 FSL / 600 FWL Lot — or Unit L Sec 16 Tsp 23S Rge 26E County Eddy

General Location: 6 mi SW of Carlsbad / 2 mi SW of Cavening Airport Pool: SWD: Silurian-Ordovician Pool No.: NA

BLM 100K Map: Carlsbad Operator: Devon Energy Prod. Comp. LP OGRID: 6137 Contact: Stephanie Porter

COMPLIANCE RULE 5.9: Total Wells: 1920 Inactive: 5 Fincl Assur: Yes Compl. Order? No IS 5.9 OK? Yes Date: 09/09/14

WELL FILE REVIEWED ☒ Current Status: New - no APD filed / no API

WELL DIAGRAMS: NEW: Proposed ☒ or RE-ENTER: Before Conv. ☐ After Conv. ☐ Logs in Imaging: NA

Planned Rehab Work to Well: New construction

Well Construction Details:	Sizes (in) Borehole / Pipe	Setting Depths (ft)	Cement (Sx br Cf)	Cement Top and Determination Method
Planned <input checked="" type="checkbox"/> or Existing <u>Surface</u>	<u>26 / 20</u>	<u>0 to 180</u>	<u>470</u>	<u>Circulated to surface</u>
Planned <input type="checkbox"/> or Existing <u>Interm/Prod</u>	<u>17 1/2 / 13 3/8</u>	<u>0 to 1470</u>	<u>None</u>	<u>Circulated to surface</u>
Planned <input type="checkbox"/> or Existing <u>Interm/Prod</u>	<u>12 1/4 / 9 3/8</u>	<u>0 to 8800</u>	<u>None</u>	<u>Calculated @ 970'</u>
Planned <input type="checkbox"/> or Existing <u>Prod/Liner</u>	<u>8 1/2 / 7</u>	<u>0 to 12403</u>	<u>None</u>	<u>Calculated @ 8300'</u>
Planned <input type="checkbox"/> or Existing <u>Liner</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
Planned <input checked="" type="checkbox"/> or Existing <u>OH / PERF</u>	<u>5 7/8</u>	<u>12403 - 15103</u>	<u>2700</u>	

Injection Stratigraphic Units:	Depths (ft)	Injection or Confining Units	Tops
Adjacent Unit: Litho. Struc. Por.		<u>Miss Lime</u>	<u>12122</u>
Confining Unit: Litho. Struc. Por.	<u>31'</u>	<u>Woodford</u>	<u>12322</u>
Proposed Inj Interval TOP:	<u>12403</u>	<u>Silurian</u>	<u>12372</u>
Proposed Inj Interval BOTTOM:	<u>15103</u>	<u>Ordo / Simpson</u>	<u>14572</u>
Confining Unit: Litho. Struc. Por.	<u>25' + 100'</u>	<u>Ellenburger / GW</u>	<u>15103</u>
Adjacent Unit: Litho. Struc. Por.		<u>pe</u>	<u>—</u>

Completion/Operation Details:
Drilled TD <u>—</u> PBTD <u>—</u>
NEW TD <u>15103</u> NEW PBTD <u>NA</u>
NEW Open Hole <input checked="" type="checkbox"/> or NEW Perfs <input type="checkbox"/>
Tubing Size <u>4 1/2</u> in. Inter Coated? <u>Yes</u>
Proposed Packer Depth <u>12353</u> ft
Min. Packer Depth <u>11403</u> (100-ft limit)
Proposed Max. Surface Press. <u>2780</u> psi
Admin. Inj. Press. <u>2480</u> (2480.2 psi per ft)

AOR: Hydrologic and Geologic Information

POTASH: R-111-P NA Noticed? NA BLM Sec Ord NA WIPP NA Noticed? NA SALT/SALADO T: 164 B: — CLIFF HOUSE NA

FRESH WATER: Aquifer Alluvial - minor bedrock Max Depth (200 ft) HYDRO AFFIRM STATEMENT By Qualified Person ☒

NMOSE Basin: Carlsbad CAPITAN REEF: thru ☐ radi ☐ NAD ☐ No. Wells within 1-Mile Radius? 1 FW Analysis 2 Days

Disposal Fluid: Formation Source(s) Delaware & Bone Springs Analysis? On Geotech On Lease ☐ Operator Only ☒ or Commercial 516 Unt

Disposal Int: Inject Rate (Avg/Max BWPD): 7500 / 15000 Protectable Waters? Low Source: [Condition] System: Closed ☐ or Open ☐

HC Potential: Producing Interval? No Formerly Producing? No Method: Logs/DST/P&A/Other Historical 2-Mile Radius Pool Map NA

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? 0 on which well(s)? — Diagrams? NA

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

NOTICE: Newspaper Date 04/03/2014 Mineral Owner State Surface Owner State N. Date 5/14/14

RULE 26.7(A): Identified Tracts? Yes Affected Persons: R. Power Trust / J. Devine Trust / Turney / Bello / Woehler / Burn Trust / A. Oliver Trust N. Date 5/14/14

Permit Conditions: Issues: Calc. tops of cmt / Salinity valve / HC potential unknown / > 1500 ft open hole / Strat. tops

Add Permit Cond: CBL for 7 1/2 in casings / mudlog / salinity calc. / injection survey / formation picks

* City of Carlsbad wells are in Secs. 1, 2, 3, 12 / T 23S / R 26E & T 21S-22S / R 26E



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

(acre ft per annum)

WR File Nbr	Sub				County	POD Number	Code Grant	Source	q q q					X	Y	
	basin	Use	Diversion	Owner					6416 4	Sec	Tws	Rng				
<u>C 00442</u>	C	DOM		3 CORDIE E. KING	ED	<u>C 00442</u>	} Expired applications		2	3	21	23S	26E	565871	3572554*	
<u>C 00537</u>	C	DOM		0 CORDIE E. KING	ED	<u>C 00537</u>			1	4	21	23S	26E	566277	3572558*	
<u>C 01536</u>	C	DOL		0 PASCUAL G MONTEJANO	ED	<u>C 01536</u>			4	2	1	20	23S	26E	564329	3573239*
<u>C 01587</u>	C	DOL		0 PASQUAL MONTEJANO	ED	<u>C 01587</u>			3	2	1	20	23S	26E	564129	3573239*
<u>C 02395</u>	C	PRO		0 PENWELL ENERGY	ED	<u>C 02395</u>			3	3	2	16	23S	26E	566160	3574477*
<u>C 02560</u>	C	PRO		0 PENWELL OIL	ED	<u>C 02395</u>		3	3	2	16	23S	26E	566160	3574477*	

(R=POD has been replaced
and no longer serves this file,
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

Expired applications

Record Count: 6

POD Search:

POD Basin: Carlsbad

PLSS Search:

Section(s): 16, 17, 20, 21 Township: 23S Range: 26E

Sorted by: File Number

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

9/9/14 2:26 PM

Page 1 of 1

ACTIVE & INACTIVE POINTS OF DIVERSION