

State of New Mexico  
Energy, Minerals and Natural Resources Department

**Susana Martinez**  
Governor

**David Martin**  
Cabinet Secretary

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Deputy Cabinet Secretary

**David R. Catanach, Division Director**  
Oil Conservation Division



March 23, 2016

**TO:** Daniel Sanchez, Field Operations Manager, OCD

**FROM:** Phillip Goetze, Engineering and Geological Services Bureau, OCD

**RE: INFORMATION ON DISPOSAL WELLS OPERATED BY SIANA OPERATING LLC (OGRID 168687)**

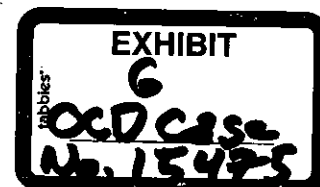
At your request, the Engineering and Geological Services Bureau reviewed the case files of the active UIC orders associated with Siana Operating LLC ("operator"). The database identified two active disposal wells, but no other injection wells including EOR projects. The APD Federal No. 1 is located on split-estate lands (State of New Mexico surface property and federal mineral estate) while the Curry Federal No. 2 is located on federal land and minerals managed by the BLM.

API Well No.	Well Name	Well No.	Stat	UL	Sec	Twp	Rng	Footage N/S	Footage E/W	Injection Authority
30-025-24003	CURRY FEDERAL	002	A	N	22	23 S	34 E	660 S	1830 W	SWD-588
30-025-28554	APD FEDERAL	001	A	O	10	23 S	34 E	990 S	1940 E	SWD-712

**CURRY FEDERAL NO. 2**

1. **Disposal Authority:** Administrative Order SWD-588; original operator: San Simon Disposal Company
2. **Permitted Interval:** Bell Canyon formation; 5230 feet to 6180 feet (950 feet through perforations)
3. **Order Approval Date:** April 11, 1995
4. **Order Maximum Surface Injection Pressure:** 1046 psi
5. **Injection Volume (latest C-115 filing):** ~2400 BWPD; historical injection rates (incorrectly reported) may be as great 4600 BWPD prior to the approval of IPI-273.
6. **Cumulative Volume:** 4,117,783 BW (Only to January 2009)
7. **Pressure Increases:** IPI-273; increase to 1360 psi; approved October 24, 2006.
8. **Well Diagram:** attached
9. **Current MIT:** July 6, 2011; 525 psi dropped to 500 psi over 30 minutes (5% loss); MIT approved.

**General Notes:** The well is a re-entry of a deeper Antelope Ridge, Morrow well. Initial MIT conducted in 1996. Well transferred to Siana on June 1, 2003. Conducted MIT December 12, 2005, after modifying well (see Completion Note) and repairing wellhead. Application for IPI submitted



in May 2006, but denied for deficient SRT data. Failed MIT on February 1, 2007 (*300 psi dropped to 0 communicated out of surface casing*); Repairs conducted May 7, 2007, and returned to service.

Completion Note: Well is currently injecting in interval not permitted under Order SWD-588. Operator filed subsequent report (state form C-103 dated November 29, 2005) that stated two CIBPs drilled out (6840 feet and 7110 feet). Additional perforations placed from 6220 feet to 7165 feet. No record of application to increase injection interval filed with OCD.

#### **APD FEDERAL NO. 1**

1. **Disposal Authority:** Administrative Order SWD-712; original operator: San Simon Disposal Company
2. **Permitted Interval:** Upper Bell Canyon formation; 5110 feet to 5650 feet (540 feet through perforations)
3. **Order Approval Date:** May 29, 1998
4. **Order Maximum Surface Injection Pressure:** 1022 psi
5. **Injection Volume (latest C-115 filing):** 519 BWPD (maximum in 2015 of 1119 BWPD)
6. **Cumulative Volume:** 1,125,084 BW
7. **Pressure Increases:** None
8. **Well Diagram:** attached (from C-108; no Sundry with completion information)
9. **Current MIT:** July 6, 2011; 550 psi dropped to 540 psi over 30 minutes (2% loss); MIT approved.

**General Notes:** The well is a re-entry of a deeper Antelope Ridge, Cherry Canyon well. P&A on February 11, 1984. Recompleted in 1997 to Brushy Canyon formation (7188 feet); perforations from 6981 feet to 7091 feet isolated by CIBP (and cement cap) at 6950 feet (no Sundries on these actions; information from C-108). Federal Sundries dated November 2000 note tubing and packer installation (packer set at 4,004 feet; see Completion Note). Initial MIT not on file. Well transferred to Siana on January 1, 2005. Conducted MIT August 14, 2001; successful. MIT (test not monitored) February 21, 2006, acceptable.

Completion Note: Initial records indicate that packer is not set either at a depth permitted under Order SWD-712 (4918 feet) or within 100 feet of the top perforation (permitted at 5110 feet). Operator shall be required to verify packer setting.

#### **Attachments:**

Completion Diagrams for Curry Federal No. 2 and APD Federal No. 1

Operator: Siana Operating LLC  
 Surface Lease: NM0552659A  
 Producing Lse No: NM0552659A  
 Unit or CA No: N. A.  
 Subsurface Concerns for Casing Designs:

Well Status: WDW  
 Spud date: 12/28/1971  
 NV JCD Max inj pslg: 1,306  
 Last WK Inspec: 6/10/2010  
 Inspec Tbg pslg: 610  
 Inspec Csg pslg: flowing, no gauge

Well: Curry Federal - 002  
 API: 3002524003  
 @ Srfce: T23S-R34E, Sec 22, 660FSL & 1830FWL  
 @ MTD: N. A.

KB: 3495  
 CL: 3476  
 Corr: 19

Replaced top ±12' of the 10 3/4" (leaking in) wtr 06/2010

12/29/1971  
 03/1972 50ft plug in top 10 3/4  
 100' cmt plug 50' abv/below Rustler  
 04/17/1982 drld cmt plug 877-972

04/18/1982 clean junk 4362-4580  
 04/11/1972 Cut & pull 7 5/8" from 4300(4380?)  
 03/1972 100' cmt plug 50' in/out

Sqz 6876-95 w/300sx 09/17/1982

07/04/2010 Pressure test 7900 CIBP - OK

11/09/: 005 MIT held 360psig to 340psig 34m  
 11/29/: 005 Convert to injector  
 07/04/: 010 MIT held 300psig 30m

25sx plug 11,977-11,877 (not mentioned in reentry)  
 2/6/1972

04/27-29/1982 drl cmt & shale to 12,189-13,189  
 03/1972 200sx plug 13,500-12,458  
 3/15/1972

87' tag w/1"

385 16

(882 Rustler)

(4700 B Salt)

4950 TOC temp

(5072 Delaware)

5129 Pkr on 3 1/2 ICT 07/03/2010

5,218 10 3/4

<5220-626 03/07/1996>

<5240-7165 11/2005>

<6140-60 09/29/82>

tracer svvy, chnlg up&dwn 09/29/82

6840 CIBP w/20' cmt cap 9/25/82

<6876-95 09/14 & 23/82>

7030 CIBP w/cmt cap 09/14/1982

<7,040-80 09/08/82>

7110 CIBP w/20' cmt cap 09/08/1982

<7,132-54 08/26/82>

(7430 Brushy Canyon)

7900 CIBP w/35' cmt cap 08/26/1982

7954 D V Tool

(8580 Bone Springs)

cut 5 1/2" csg 9,000 08/19/1982 csg came free

cut 5 1/2" csg 9,700 08/19/1982 unable to free csg

<perf 5 1/2" csg 9,800 08/17/1982> unable to circ up 7 5/8

<perf 5 1/2" csg 9,900 08/17/1982> unable to circ up 7 5/8

9,910 TOC acoustical frog pipe log 08/05/1982

10,570 5 1/2" CIBP w/35' cmt cap 08/17/1982

<perf 5 1/2" csg 10,629-758 08/10/1982>

10,880 5 1/2" CIBP w/20' cmt cap 08/10/1982

<perf 5 1/2" csg 10,900 08/04/1982> unable to circ up 7 5/8

<perf 5 1/2" csg 11,030 08/04/1982> unable to circ up 7 5/8

(11,462 Wolfcamp)

(11,834 Penn)

11,924 Pkr w/35' cmt cap 08/03/1982

11,927 7 5/8

(12,100 Atoka)

<perf 5" csg 12,152-297 05/12/1982>

(13,040 Morrow)

13,189 PBTD 5 1/2

13,500 TD

Surface Hole: 20  
 Hole ft/bbl: 2.5735  
 Srf Csg OD: 16  
 Srf Csg Wt: 65.00  
 Srf Csg ID: 15.2500  
 Srf Csg ft/bbl: 4.4264  
 5 Hole - 5 Csg ft/bbl: 7.1487  
 5 Csg - 1 Csg ft/bbl: 8.7984  
 Srf Csg - WS ft/bbl: 4.5364

Cmt: 450sx, circ 0sx  
 1" w/400sx from 87'

1" Intrm Hole: 13 3/4  
 Hole ft/bbl: 5.4448  
 1 Hole - 1 Csg ft/bbl: 14.0056  
 1" Intrm Csg OD: 10 3/4  
 1" Intrm Csg Wt: 40.50  
 2" Intrm Csg ID: 10.0500  
 1" Intrm Csg ft/bbl: 10.1920  
 1 Csg - 1 Csg ft/bbl: 24.0170

Cmt: 625sx 1st stg  
 2000sx 2nd slg, cmt circ

2" Intrm Hole: 9 1/2  
 Hole ft/bbl: 11.4063  
 2nd Hole - WS ft/bbl: 12.1667  
 1 Hole - 1 Csg ft/bbl: 32.0596  
 2" Intrm Csg OD: 7 5/8  
 2" Intrm Csg Wt: 26.40  
 2" Intrm Csg ID: 6.9690  
 2" Intrm Csg ft/bbl: 21.1958  
 2" i - P Csg ft/bbl: 56.2001  
 2" i Csg - WS ft/bbl: 23.9809

Cmt: 700sx stg 1  
 800sx stg 2

Prod Hole: 6 1/2  
 Hole ft/bbl: 24.3648  
 P Hole - WS ft/bbl: 28.1189  
 P Hole - Csg ft/bbl: 85.7845  
 Prod Csg OD: 5 1/2  
 Prod Csg Wt: 14.00  
 Prod Csg ID: 5.0120  
 Prod Csg ft/bbl: 40.9796  
 P Csg - WS ft/bbl: 52.8460

Cmt: 360sx, 0sx circ

agram l. st updated 07/05/2010

100/E) 10 d

ESV2 289 2EV(X8J)

589 8 710 8N815

07:60 (NH1)1102-20-700



State of New Mexico  
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APD Federal No. 1
30-025-28554
Siana Operating LLC
Spud Date: 12/31/1983
30-025-28554
990 FSL & 1940 FEL
O-10-23S-34E - Lea County, NM
SWD: Upper Bell Canyon
PRG

