

**Ezeanyim, Richard, EMNRD**

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**From:** Jason Wacker [jwacker@blackoakres.com]  
**Sent:** Friday, August 06, 2010 3:02 PM  
**To:** Ezeanyim, Richard, EMNRD  
**Cc:** Scott Hall  
**Subject:** South Denton 6 State #2 SWD - Reply to Additional Information Request  
**Attachments:** Southern Union State #1 - Wellbore Diagram and Well History.pdf; South Denton 6 State #2 SWD - Proposed Wellbore Diagram.pdf

Richard,

I appreciate you hearing our case regarding the injection permit for our South Denton 6 State #2 SWD well, yesterday. I have attached the additional information that you requested during the hearing. Please let me know if you require anything further.

In visiting with our management here at BC this morning, we are confident that we can reduce our shut in well count to less than 5 by the September 30, 2010 deadline. I will contact you when compliance is achieved. Thanks again!

Jason Wacker, P.E.  
Operations Manager

BC Operating, Inc.  
303 Veterans Air Park Ln, Suite 6101  
Midland, Texas 79705

Office (432) 684-9696  
Cell (432) 631-2142

LEASE & WELL NO.  
FIELD NAME  
LOCATION

**Southern Union State #1**

Wildcat

3722 FNL & 660 FWL, Sec 6, T16S, R38E

0.65 Miles South of Proposed South Denton 6 State #2 SWD Well

FORMER NAME

COUNTY & STATE

API NO.

Lea Co., NM

30-025-20392

K.B. ELEV.

D.F. ELEV.

GROUND LEVEL

3784'

SURFACE CASING

SIZE	12-3/4"	WEIGHT	30.0#	DEPTH	312'
GRADE		SX. CMT.	375 sx	TOC @	surface

15-1/2" Hole

INTERMEDIATE CASING

SIZE	8-5/8"	WEIGHT	32.0#	DEPTH	1425' - 5005'
GRADE		SX. CMT.	350 sx	TOC @	3594'

by 80% Calc

**Drilled & Abandoned**

WELL HISTORY

7/20/63 Spud  
10/10/63 Reached TD; non-commercial well  
10/12/63 Recovered 1425' of 8-5/8" casing; D&A  
11/16/71 Checked surface plug; installed dry hole marker

FORMATION TOPS

Queen 4218'  
San Andres 5214'  
Glorietta 6725'  
Abo 8660'  
Wolfcamp 9970'  
Strawn 11,870'

These plugs isolate the San Andres formation.

11" Hole

7-7/8" Hole  
TD@ 13513'

Plug #10: 15 sx 54' - Surface

Plug #9: 20 sx @ 345'

Plug #8: 25 sx @ 1450'

Plug #7: 25 sx @ 5000'

Plug #6: 25 sx @ 6725'

Plug #5: 25 sx @ 7954'

Plug #4: 25 sx @ 8760'

Plug #3: 25 sx @ 9969'

Plug #2: 25 sx @ 11,239'

Plug #1: 25 sx @ 13,067'

LEASE & WELL NO. South Denton 6 State #2 SWD  
FIELD NAME South Denton  
LOCATION 330 FNL & 330 FWL, Sec 6, T16S, R38E

FORMER NAME \_\_\_\_\_  
COUNTY & STATE Lea Co., NM  
API NO. 30-025-39734

K.B. ELEV. \_\_\_\_\_  
D.F. ELEV. \_\_\_\_\_  
GROUND LEVEL 3781'

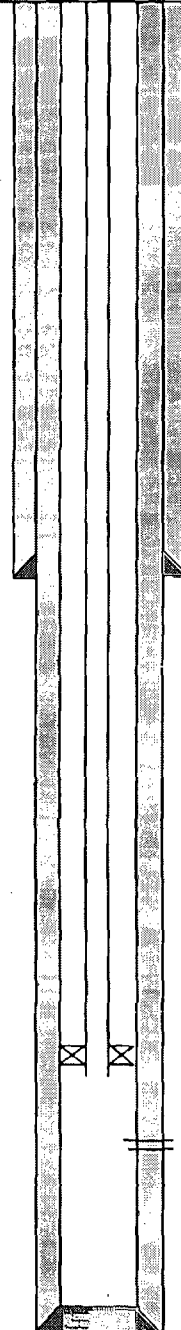
**PROPOSED CONSTRUCTION**

SIZE 8-5/8" WEIGHT 32.0# DEPTH 2025'  
GRADE \_\_\_\_\_ SX. CMT. 600 sx TOC @ surface

Tubing Description  
IPC 2-7/8", 6.5#, J-55

**WELL HISTORY**

4/15/2010 APD Approved  
8/5/2010 NMOCD Hearing for Injection Permit



Packer < 100' above top perf  
max inj pressure = 0.2 psi/ft  
max inj rate = 2500 bwpd

Injection Interval  
5200' - 6500'

SIZE 5-1/2" WEIGHT 15.5# DEPTH 6500'  
GRADE \_\_\_\_\_ SX. CMT. 900 sx TOC @ surface  
PBTd@ \_\_\_\_\_  
TD@ 5200'

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Form C-105  
Revised 1-1-65

# NEW MEXICO OIL CONSERVATION COMMISSION WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5a. Indicate Type of Lease  
State ☒ Fee ☐  
5. State Oil & Gas Lease No.

1a. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>						7. Unit Agreement Name <b>Southern Union</b>	
b. TYPE OF COMPLETION NEW WELL <input type="checkbox"/> WORK OVER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER <input type="checkbox"/>						8. Farm or Lease Name <b>(Southern Union State)</b>	
2. Name of Operator <b>Southern Union Production Company</b>						9. Well No. <b>No. 1</b>	
3. Address of Operator <b>1434 Fidelity Union Tower, Dallas, Texas 75201</b>						10. Field and Pool, or Wildcat <b>Wildcat</b>	
4. Location of Well UNIT LETTER <b>L</b> LOCATED <b>3722</b> FEET FROM THE <b>N</b> LINE AND <b>660</b> FEET FROM THE <b>West</b> LINE OF SEC. <b>6</b> TWP. <b>16-S</b> RGE. <b>38-E</b> NMPM						12. County <b>Lea</b>	
15. Date Spudded <b>7/20/63</b>	16. Date T.D. Reached <b>10/10/63</b>	17. Date Compl. (Ready to Prod.) <b>10/12/63</b>	18. Elevations (DF, RKB, RT, GR, etc.) <b>3773.24 GRL</b>	19. Elev. Casinghead <b>None</b>			
20. Total Depth <b>13,513</b>	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By <b>Rotary Tools</b>	24. Was Directional Survey Made <b>No</b>			
24. Producing Interval(s), of this completion — Top, Bottom, Name <b>Dry Hole</b>						25. Was Well Cored <b>No</b>	
26. Type Electric and Other Logs Run <b>Schlumberger Sonic Gamma Ray &amp; Dual Induction-Log</b>						27. Was Well Cored <b>No</b>	
28. CASING RECORD (Report all strings set in well)							
CASING SIZE <b>12-3/4</b>	WEIGHT LB./FT. <b>30</b>	DEPTH SET <b>312</b>	HOLE SIZE <b>15-1/2</b>	CEMENTING RECORD <b>375 SXS</b>		AMOUNT PULLED <b>None</b>	
<b>8-5/8</b>	<b>32</b>	<b>5005</b>	<b>11</b>	<b>350 SXS</b>		<b>1425'</b>	
				<b>7-7/8</b>			
29. LINER RECORD				30. TUBING RECORD			
SIZE <b>None</b>	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE <b>None</b>	DEPTH SET	PACKER SET
31. Perforation Record (Interval, size and number)				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
				DEPTH INTERVAL <b>None</b>			
				AMOUNT AND KIND MATERIAL USED			
33. PRODUCTION							
Date First Production <b>None</b>		Production Method (Flowing, gas lift, pumping — Size and type pump)				Well Status (Prod. or Shut-in)	
Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period	Oil — Bbl.	Gas — MCF	Water — Bbl.	Gas — Oil Ratio
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil — Bbl.	Gas — MCF	Water — Bbl.	Oil Gravity — API (Corr.)	
34. Disposition of Gas (Sold, used for fuel, vented, etc.)						Test Witnessed By	
35. List of Attachments <b>1 copy of each electric log</b>							
36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.							
SIGNED <b>Benny E. Bechtel</b>			TITLE <b>Mgr., Drilling and Prod.</b>			DATE <b>12/16/68</b>	
			<b>Southern Union Production Co.</b>				

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# NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103  
Supersedes Old  
C-102 and C-103  
Effective 1-1-65

5a. Indicate Type of Lease	
State <input checked="" type="checkbox"/> Fee <input type="checkbox"/>	
5. State Oil & Gas Lease No.	

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

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER - <b>Dry Hole</b>	7. Unit Agreement Name
2. Name of Operator <b>Southern Union Production Company</b>	8. Firm or Lease Name <b>Southern Union State</b>
3. Address of Operator <b>1434 Fidelity Union Tower, Dallas, Texas 75201</b>	9. Well No. <b>/</b>
4. Location of Well UNIT LETTER <b>L</b> <b>3722</b> FEET FROM THE <b>North</b> LINE AND <b>660</b> FEET FROM THE <b>West</b> LINE, SECTION <b>6</b> TOWNSHIP <b>16-S</b> RANGE <b>38-E</b> NMPM.	10. Field and Pool, or Wildcat <b>Wildcat</b>
15. Elevation (Show whether DF, RT, GR, etc.) <b>3773.24 GL</b>	12. County <b>Lea</b>

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

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	COMMENCE DRILLING OPERATIONS <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input type="checkbox"/>
PLUG AND ABANDON <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
CHANGE PLANS <input type="checkbox"/>	PLUG AND ABANDONMENT <input checked="" type="checkbox"/>
OTHER <input type="checkbox"/>	OTHER <input type="checkbox"/>

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1105.

Spud - July 20, 1963. Schlumberger TD 13,513'. Ran Schlumberger bucket test at 11,314 to 11,317'. Recovered slight amount of formation gas and slight distillate cut filtrate water. Non-commercial amount of gas.

Ran 12-3/4" 30# surface casing at 312' w/375 sx - good cmt returns.

Ran 8-5/8" 32# casing at 5005' w/350' sx - press tested to 1000 psi - - OK.

Spotted 25 sx cement plugs at following depths:

13,067', 11,239', 9969', 8760', 7954', 6725', 5000'.

Recovered 1425' of 8-5/8" casing.

Set 25 sx & 1450' and 345' - 28 sx in surface casing.

Plugged and abandoned 10/12/63

NOVEMBER 16, 1971 Checked 20 sx plug @ 320' w/Halliburton Wireline. Unable to get below 54'. Set 15 sx plug in surface and installed dry hole marker.

Verbal approval obtained from Mr. Joe Ramey 11/16/71.

Filled in slush pits and cleaned up location.

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

SIGNED *Amey L. Suttel* TITLE Manager, Drilling and Prod. DATE 12/1/71

APPROVED BY Joe D. Ramey TITLE Dist. I, Supv. DATE JAN 14 1972

CONDITIONS OF APPROVAL, IF ANY:

COUNTY	Lea	FIELD	Wildcat	STATE	N.M.	NO.
WC	OPR	Southern Union Production Co.			MAP	
NO.	1	LSE Southern Union-State				
SEC.	6	T. 16S	R. 38E	SUR.	CO-ORD.	
LOC.	3722.4' fr N Line & 660' fr W Line of Sec.					
MI.	FROM	P&A	CLASS.	EL. 3774.5		
SPUD.	7-20-63	COMP.	10-12-63	FORMATION	DATUM	
YEL.				LOG:		
				Rust	2160	
CSG. & SX.	12 3/4"	320'		Yates	3317	
	8 5/8"	5005'	350	Queen	4216	
				Yaso	6725	
				Tubb	7954	
TBG.	DEPTH	SIZE		Abo	8670	
LOGS	EL	GR	RA	IND	MC	A
				Wolfe	9969	
				TO	13513'	
PROD INT.	(DAILY RATE)	BS&W	GH	GOR	GTY	C. P. T. P. MRS TEST
PLUGGED & ABANDONED						
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CONT.	Huron Drilg. Co.			PROP DEPTH	13,500' TYPE	

F.R. 7-25-63 Oper's Elev. 3785' XB  
 PD 13,500', Devonian  
 Contractor - Huron Drilg. Co.

7-29-63	Drlg. 4256'.
8-5-63	Drlg. 5414' ls, ch, & sd.
8-12-63	Drlg. 7032' ls.
8-19-63	Drlg. 8148'.
8-26-63	Drlg. 9345'.
9-3-63	Drlg. 10457'.
9-9-63	Drlg. 11275'.
9-16-63	Drlg. 11814'.
9-23-63	Drlg. 12300' 1m.
9-30-63	Drlg. 12704'.
10-7-63	Drlg. 13342'.
10-14-63	TD 13513', PLUGGED & ABANDONED.

WL DST 11314-317', rec .41 CF free gas + 1850 cc's  
 filtrate wtr, FP less than 100#,  
 1 hr FSIP 4090#, HP 5400#.

LOG TOPS: Pennsylvanian 11239', Chester 13067',  
 Barnett 13397'.