Jones, William V., EMNRD

From: Sam Brandon [sbrandon@yatespetroleum.com]
Sent: Tuesday, March 13, 2012 3:17 PM
To: Jones, William V., EMNRD
Subject: Shocker SWD #1
Attachments: Well data.xls

AO SED-1302

Attached is an updated spreadsheet of well data. The original is Sheet 1, the revised data is Sheet 2. Changes include the revised location (original 900' FNL and 900' FEL to 1040' FNL and 990' FEL), the actual setting depths of the casing strings, and the addition of another liner. Please let me know what else needs to be done.

Our cement job on the 5" liner was a pretty big flop. We had good circulation, pumped Mud Push and 3 barrels of cement and the pressure went up and shut us down. They are moving the rig off today and we will run a CBL when we can. I'll send a copy of the logs when I get them. Do you want paper or LAS?

Thanks,

Sam Brandon
Area Engineer/Senior Production Engineer
Yates Petroleum Corporation
105 S. 4th St.
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575-748-4281

Well Name: Shocker SWD #1 Field: _____

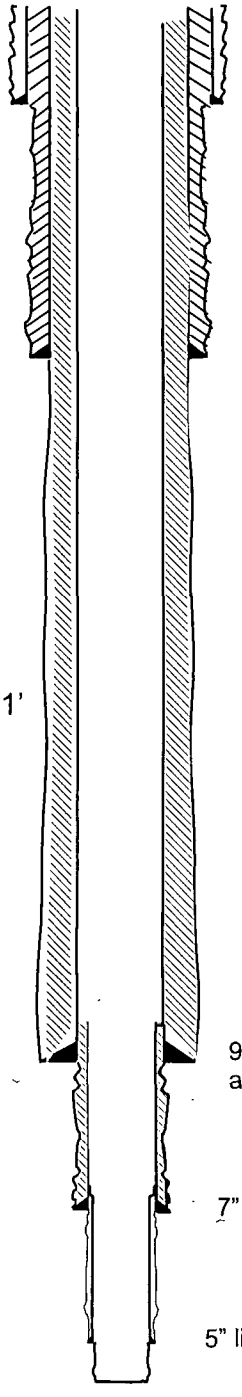
Location: 1040' FNL & 990' FEL Sec. 32-25S-29E Eddy Co, NM

GL: 2990' Zero: _____ AGL: _____ KB: 3016.5'

Spud Date: _____ Completion Date: _____

Comments: _____

Casing Program	
Size/Wt/Grade/Conn	Depth
20" 94# J55	390'
13 3/8" 48, 54.5, 61, 68# J55	2818'
9 5/8" 40 & 43.5 HCK55, N80, Q125	10069'
7" 32# P110 & Q125	13144'
5"18# P110	15200'



20" csg @ 390'. Cmtd w/ 810 sx, Cmt circ

CURRENT CONFIGURATION

13 3/8" csg @ 2818'. Cmtd w/ 2080 sx. Cmt circ.

Packer Stage tool @ 4324'

DV @ 7201'

9 5/8" csg @ 10069'. Cmtd 1st stg w/ 1040 sx (cmt circ), 2nd stg w/860 sx (cmt circ) and 3rd stg w/ 1040 sx (cmt circ)

7" liner @ 13144'. Cmtd w/ 500 sx.

5" liner @ 15200'. Cement job failed.

TD 15700'

III. **Well Data** **Actual**

A.

1) Lease Name: **Shocker SWD #1**
Location: **1040' FNL & 990' FEL Sec. 32-25S-29E** 30-015-39470

2) Hole/Casing/Cement:
20" 94# J55 set @ 390'. 26" hole size. 810 sacks cement. TOC = surface.
13 3/8" 48#, 54.5#, 61# and 68# set at 2818'. 17.5" hole size. 2080 sacks cement.
TOC = surface
9 5/8" 40#, 43.5# set at 10069'. 12.25" hole size. 2940 sx cement.
TOC = surface
7" 32# liner set at 9738-13144'. 8.25' hole size. 500 sx cement. TOC 9739'(designed)
5" 18# liner set at 12827'-15200'. 6" hole size. *(See below)
Open hole - 5.875", 15200' to 15700' (3040 PSI)

20"	0.9599	316.767 cu ft.	1.32 cu ft/s	239.975		
13-3/8"	0.6946	2014.34 cu ft.	1.32 cu ft/s	1526.015		
9-5/8"	0.3132	2912.76 cu ft.	3.04/1.59	1081.776	679.5849	1761.361221
7"	0.1268	722.76 cu ft.	1.59	681.8491		

3) Tubing
3.5" 9.3# P110 internally coated with TK500 to 12800'
2.875" 6.4# L80 internally coated with TK500 from 12800 to 15150'

4.) Packer
5" Halliburton TWS permanent packer

B.

1) Injection formation: **Devonian**
2) Injection interval: **15200' to 15700'**
3) **This well will be drilled for injection**
4) **There will be no other perforated intervals in the well**
5) Next higer productive zone: **Morrow.** Next lower productive zone: **None**

IV. Is this an expansion of an existing project? **No**

VI. **No wells in the Area of Review have penetrated the proposed injection interval.**

VII. 1) Proposed average and maximum daily rate and volume of fluids to be injected:
Avg vol = 10000 bpd, Max vol = 15000 bpd
Avg rate = 13500 bpd, Max rate = 20000 bpd
2) **This will be a closed system**

3) Proposed average and maximum pressure: **Avg = 1000 psi, Max = 3100 psi.**

4) Sources of water: **frac flowback water, Delaware and Bone Springs. Analyses attached.**

5) Analysis of disposal zone water: **To be obtained when drilled.**

VIII. Geologic data on the injection zone. **See Attachment D.**

IX. Stimulation program: **Open hole interval will be stimulated with 15000 gallons of 15% NEFE HCl, flushed to total depth.**

X. Attach appropriate logging and test data on the well. **To be attached upon completion.**

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. **One fresh water well was found within one mile.** Well location: approximately 1 mile south of Shocker 32 State Com No. 3H. Sample taken 8/24/11. Analysis attached.

XII. **See Attachment E.**

XIII. **See Attachment F.**
* When cementing the 5" liner, after pumping "Mud Push" and 3 barrels of cement, well suddenly pressured up.