

Chaparral Energy, L.L.C.

**PROJECT PROCEDURE**

**Date: 06/30/2008**

**PROJECT:**

|                                                 |                      |                   |
|-------------------------------------------------|----------------------|-------------------|
| Lease/Well: <b>CAT HEAD MESA #2</b> (4972.0002) | API No: 30-053-20014 | AFE Number:       |
| Location: Sec. 2-4S-9E, Socorro Co., NM.        | Engineer:            | District: Rockies |
| 1980' FNL & 660' FWL                            |                      |                   |
| Company: CELLC                                  | WI%: 100             | NRI%:             |

**WELL DATA:**

|                           |                                                       |
|---------------------------|-------------------------------------------------------|
| <b>Elevation:</b>         | KB 5972'                                              |
| <b>TD:</b>                | TD - 4030' OPBTD: 3344'                               |
| <b>Surface Casing:</b>    | 13 3/8", 54.5#, J-55 @ 1283'<br>Cmtd w/ 300 sx total. |
| <b>Production Casing:</b> | 9 5/8", 36# J-55 @ 3457'<br>Cmtd w/400 sx Cmt         |
| <b>TOC</b>                | 1100'                                                 |
| <b>Tubing:</b>            |                                                       |
| <b>CIBP:</b>              | 3128', 3050', 2610'                                   |
| <b>Cement Retainer:</b>   | 3250'                                                 |
| <b>Perfs:</b>             | ABO 2620-3286'                                        |

**PROCEDURE:**

1. Notify all regulatory agencies prior to MI with intent to PA Well.
2. MIRU
3. Pressure test casing to 500# (CIBP Set @ 2610' may be leaking).
4. RUWL RIH perforate 4 squeeze holes @ 1283'-1290'.
5. PU workstring RIH tag plug @ 2590'.
6. Displace with 9.5 mud.
7. Spot 45 sx Class C cmt 2000'-1900' PU 3 jts clear tubing.
8. WOC & TAG
9. Displace with 9.5 mud
10. Squeeze perfs @ 1283 w/100 sx leaving plug @ 1350' to 1200' (Shoe plug)
11. WOC & TAG
12. Displace with 9.5 mud
13. Spot 10 sx surface plug
14. Weld on dry hole marker and clean and level location.
15. Report PA Status to OKC and New Mexico Commission and BLM.

KB: 5972' DF: 5971' GL: 5961' 20" #, cond., @25'

## Chaparral Energy, L.L.C.

Well: Cathead Mesa Unit #2, #2 . P1984.0  
Operator: CEMLC  
Location: 1980' ENL & 660' FWL  
Legal: Sec. 2-48-9E, Socorro Co., NM

Dir:

*Currently*

Spud Date: 4/11/01  
Drilling Finished: 5/12/01  
Completion Date:  
First Production:

### PUMPING DATA:

PU: Portable 320  
PM: Gas engine  
BHP: 2.5" x 2" x 16"  
Anchor:

### PRODUCTION FACILITY:

### HISTORY:

5/13/01 Sonic tool would not read past intermediate csg so CBL was run to determine status of cmt job; CBL indicated no cmt bond.

7/15/04 Drld out plug #1 to 120'  
7/16/04 Drld out plug #2 f/1160'-1262'  
7/17/04 Drld out plug #3 f/1955'-2030'  
Drld out plug #4 f/2587'-2700'  
7/18/04 Drld out plug #5 f/2822'-3097'  
7/20/04 Drld out CIBP @ 3104'  
7/21/04 Drld cmt 3105'-3180' (62' below squeeze holes)

7/26/04 Run CBL, found TOC @ 1100'. Annulus practically void of cmt from 3132'-TD, w/possible exception of 3290'-3330'. Set cmt retainer @ 3250', new PBTD @ 3248'

3-5-2008 CIBP @ 2610 set but may be leaking Test before proceeding

TOC@ 330'

Size: 17.5"

TOC@ 1100'

13 3/8", 54.5 #, J55 @1283' , 300 sx

1600'

Size: 12.5"

CP: 2610- 2590  
CIBP@2610

2620 -2625 Abo sqzd 2 SPF

2641 -2650 Abo sqzd 2 SPF

2715 -2721 Abo sqzd 2 SPF

2750 -2760 Abo sqzd 2 SPF

2832 -2846 Abo 2 SPF

CP: 3050- 3030

CIBP@3050

CP: 3128- 3108

CIBP@3128

2954 -2958 Abo sqzd

2966 -2980 Abo sqzd

3064 -3074 Abo 2 SPF

CRetainer@3250

3144 -3145 Block sqz perf

3156 -3169 Abo 2 SPF

3194 -3206 Abo 2 SPF

CP: 3457- 3344

3285 -3286 Block sqz perf

Sqz Perfs cmtd w/50 sx CI C

9 5/8" , 36 #, @3457' , 400 sx

TD: 4030

Input by: Terry C

Approved by:

Last Update: 06/26/2008

KB: 5972

DF: 5971

GL: 5961

**Chaparral Energy, L.L.C.**

Well: Cathead Mesa

, Proposed #, PA1980

Operator:

Location:

Legal:

Dir:

Spud Date:

Drilling Finished:

Completion Date:

First Production:

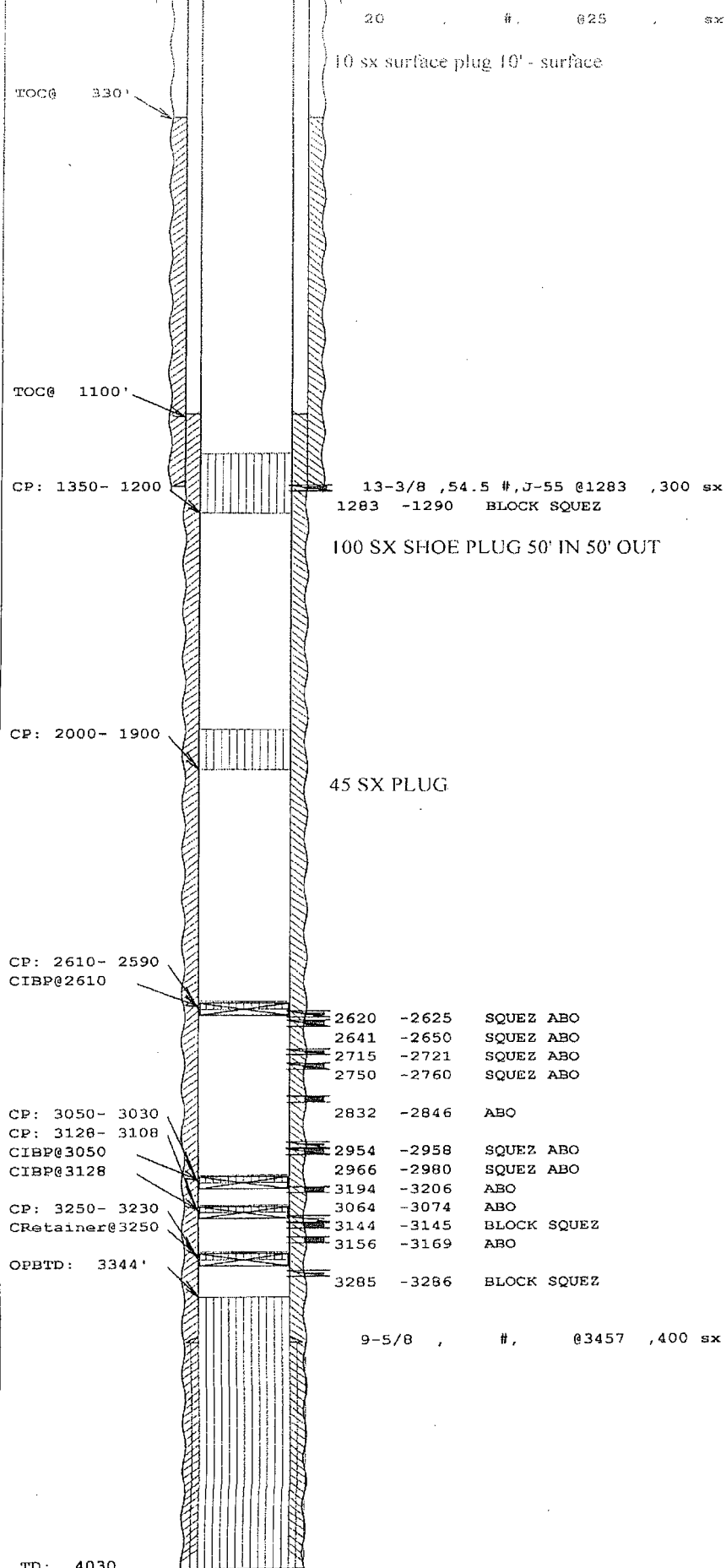
**PUMPING DATA:**

PU:

PM:

BHP:

Anchor:

**PRODUCTION FACILITY:****HISTORY:**

Input by: Terry C

Approved by:

Last Update: 06/26/2008