

CASING DETAIL

WELL NAME: TIERRA PIEDRA 33-5 # 15-1 R DATE: 10/21/2008
 TD: 350 ft. HOLE SIZE: 12 1/4 in., DATUM 12
 LAST CASING: 13 3/8 in., SET@ 97.44 ft.
 THIS CASING: 9 5/8" in., SET@ 345 ft.
 CSG ON HAND: # OF JTS 10, LENGTH 426.81 ft. (threads off)
 CSG LEFT OUT: # OF JTS 2, LENGTH 78.83 ft. (threads off)

| Pieces | Size-Item-Make-Description | Wt. | Grade | Cplgs | Cond'n | Length |
|--------|--|-----|-------|-------|--------|--------|
| 1 | GUIDE SHOE | | | ST&C | N-80 | 0.75 |
| 1 | 9 5/8" SHOE JOINT (baffle in top of jt.) | 36 | | ST&C | | 43.51 |
| 7 | 9 5/8" casing | 36 | | ST&C | | 303.72 |
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| | TOTAL | | | | | 347.98 |

TIME REQUIRED TO RUN CASING 2 HRS CSG SET @ 345
 TOP OF CSG. 2.9 ft. BELOW DATUM, FC@
 CENTRALIZERS: NO. 3 MAKE _____ PLACED ON BOTTOM 3 JOINTS
 TURBOLIZERS: NO. _____ MAKE _____ PLACED _____
 TURBOLATORS: NO. _____ MAKE _____ PLACED _____
 SCRATCHERS: NO. _____ MAKE _____ PLACED _____
 MARKER JOINT / STAGE TOOL: _____
 REMARKS: _____

CEMENTING DETAIL

SERVICE COMPANY SUPERIOR YARD FARMINGTON, NEW MEXICO
 GOOD CIRC. ESTABLISHED: YES TIME CIRC. _____ min. RECIPROCATED: NO

| LEAD CEMENT | | | | TAIL CEMENT | | | |
|---------------------|--|-----------|--------------------------|-------------|-----------------|----------|-------------|
| #SX/KIND | <u>200</u> | sx of | <u>TYPE IV</u> | | sx of | | |
| ADDITIVES | <u>2% CACL, 1/4 PPS SUPERFLAKE</u> | | | | | | |
| MIX WTR | <u>5.2</u> | gal/sx | <u>27</u> total bbls | | gal/sx | | total bbls |
| WT/YEILD | <u>15.60</u> | ppg | <u>1.18</u> cu ft/ sx | | ppg | | cu ft / sx |
| DISPLACEMENT: | <u>CALCULATED</u> | <u>24</u> | bbls | ACTUAL | <u>21.2</u> | BBLs | |
| TIME REQ'D TO: MIX: | <u>10</u> | min., | START PLUG: <u>22:08</u> | min., | PUMP PLUG DOWN: | <u>8</u> | mins |
| LATE PUMP PRESS: | <u>425</u> | psig, | PD@ <u>22:17</u> | am | w/ <u>425</u> | psig, | FLOAT HELD? |
| REMARKS: | <u>WELL SHUT IN, CIRCULATED 14 BBLs OF GOOD CEMENT TO SURFACE.</u> | | | | | | |

GOOD CIRC. ESTABLISHED: _____ TIME CIRC. _____ min. RECIPROCATED: NO

| LEAD CEMENT | | | | TAIL CEMENT | | | |
|---------------------|-------------------|--------|-------------|-------------|----------|-----------------|-------------|
| #SX/KIND | | sx of | | | sx of | | |
| ADDITIVES | | | | | | | |
| MIX WTR | | gal/sx | total bbls | | gal/sx | | total bbls |
| WT/YEILD | | ppg | cu ft/ sx | | ppg | | cu ft / sx |
| DISPLACEMENT: | <u>CALCULATED</u> | | bbls | ACTUAL | | BBLs | |
| TIME REQ'D TO: MIX: | | min., | START PLUG: | | min., | PUMP PLUG DOWN: | |
| LATE PUMP PRESS | | psig, | PD@ | | am/pm w/ | psig, | FLOAT HELD? |
| REMARKS: | | | | | | | |

TOC: SURFACE ft. OBSERVED
 RECOMMENDED WOC TIME: 12 hrs.

signed: DANIEL J. UHL