

Well Refined Drilling Company, Inc.

4230 Douglas Road - Thayer, KS 66776

Contractor License # 33072 - FEIN # 48-1248553

Office - 620-839-5581; Jeff Pocket - 620-432-6170; Fax - 620-839-5582

| | | |
|-----------|-----------------------------|----------------|
| Rig #: | 2 | License # 9313 |
| API #: | 15-037-22155-0000 | |
| Operator: | James D. Lorenz | |
| Address: | 543A 22000 Road | |
| | Cherryvale, KS 67335 - 8515 | |



| | | |
|-----------|---------------|------|
| S25 | T30S | R22E |
| Location: | C,NE,NE,NW | |
| County | Crawford - KS | |

| | | | | Gas Tests | | | |
|-----------------|----------|----------------|-------------|---|-----|---------|------------|
| Well #: | INJ 1BA | Lease Name: | Amershek II | Depth | Oz. | Orifice | flow - MCF |
| Location: | 4950 | FSL | | 105 | | No Flow | |
| | 2970 | FEL | | 130 | | No Flow | |
| Spud Date: | | 3/25/2011 | | 230 | | No Flow | |
| Date Completed: | | 3/28/2011 | TD: 317 | 280 | | No Flow | |
| Geologist: | | | | 295 | | No Flow | |
| Driller: | | Josiah Kephart | | 317 | | No Flow | |
| Casing Record | Surface | Production | | | | | |
| Hole Size | 12 1/4" | 6 3/4" | | RIG TIME .5 hour Trip out to change to PDC bit at 295' and trip back in | | | |
| Casing Size | 8 5/8" | | | | | | |
| Weight | | | | | | | |
| Setting Depth | 20' 6" | | | | | | |
| Cement Type | Portland | | | | | | |
| Sacks | 4 | | | | | | |
| Feet of Casing | | | | | | | |
| | | | | | | | |

11LC-032811-R2-012-Amershek II - INJ 1BA - James D. Lorenz

Well Log

| Top | Bottom | Formation | Top | Bottom | Formation | Top | Bottom | Formation |
|-----|--------|------------|-------|--------|-------------|-----|--------|-----------|
| 0 | 2 | overburden | 223 | 226 | lime | | | |
| 2 | 6 | lime | 226 | 270 | shale | | | |
| 6 | 7 | blk shale | 230 | | add water | | | |
| 7 | 17 | shale | 270 | 272 | broken lime | | | |
| 17 | 19 | blk shale | 272 | 287 | shale | | | |
| 19 | 65 | shale | 287 | 289 | sandy shale | | | |
| 65 | 66 | coal | 289 | 290 | sand | | | |
| 66 | 81 | shale | 290 | 294.5 | shale | | | |
| 81 | 97 | lime | 294.5 | 316.5 | sand | | | |
| 97 | 102 | shale | | | oil odor | | | |
| 102 | 103 | coal | 316.5 | 317 | shale | | | |
| 103 | 106 | shale | 317 | | Total Depth | | | |
| 106 | 119 | lime | | | | | | |
| 119 | 204 | shale | | | | | | |
| 204 | 205 | coal | | | | | | |
| 205 | 211 | shale | | | | | | |
| 211 | 212 | coal | | | | | | |
| 212 | 223 | shale | | | | | | |