

## **TERRA ENERGY PARTNERS**

**H&P 271**

**Well# TR 44-22-597**

**API# 05-045-23690-00**

**PAD# TR 23-22-597**

**RIG PHONE: 970-986-4861**

**SURFACE HOLE: 14-3/4" TD 2,773'**

### **Surface Casing Details: 2/13/2019**

RUN 9-5/8" SURFACE CASING AS FOLLOWS: MADE UP 1 FLOAT SHOE, 1 JT. OF 9-5/8" 36# J-55 LT&C AS SHOE JOINT AND 1 FLOAT COLLAR, 3 JOINTS OF 9-5/8" 36 # WITH PARASITE SUB AND 68 JTS OF 36# J-55 LT&C, WITH 1 JOINT OF 36# J-55 ON TOP TO BE CUT OFF AND A WELD ON WELL HEAD AT GROUND LEVEL FOR A TOTAL OF 70 JOINTS OF SURFACE CASING. SHOE DEPTH 2,773'. FLOAT COLLAR DEPTH 2,741.20', PARASITE SUB @ 2,619.61'. RUN CENTRALIZERS ON FIRST THREE JTS, THEN 1 CENTRALIZER EVERY 4RD JOINT THERE AFTER INCLUDING 3 CEMENT BASKETS FOR A TOTAL OF 17 CENTRALIZERS, BOTTOM CENTRALIZER AT 2,763' AND TOP CENTRALIZER AT 112'. CASING SET DEPTH @ 2,773'. (RUN 81 JOINTS OF 1.90" 2.76# IJ J-55 TUBING FOR A PARASITE FROM SURFACE TO 2,619.61'.)

### **Surface Cement Details: 2/14/19**

SURFACE CEMENT AS FOLLOWS: HELD SAFETY MEETING WITH HALLIBURTON CEMENTERS AND H&P 271 RIG CREW. TESTED LINES TO 3000 PSI, PUMPED ONE 5 BBL FRESH WATER SPACER, ONE 10 BBL SUPER FLUSH SPACER, PUMPED ONE 10 BBL CALCIUM CHL. H2O SPACER, PUMPED ONE 5 BBL FRESH WATER SPACER, PUMPED ONE 10 BBL SUPER FLUSH 100 SPACER, PUMPED ONE 5 BBL FRESH WATER SPACER, PUMPED ONE 10 BBL CALCIUM CHL. H2O SPACER, PUMPED ONE 10 BBL FRESH WATER SPACER. LEAD PUMPED 390.4 BBLs (925 SACKS) OF VARICEM 12.3 PPG, 2.37 YLD, 13.74 GAL/SK LEAD CEMENT W/ 50% EXCESS ON LEAD. TAIL, PUMPED 129.6 BBLs (345 SKS) OF 12.8 PPG, 2.11 YLD, 11.75 GAL/SK VARICEM TAIL CEMENT W/ 70% EXCESS. DROPPED PLUG, DISPLACED WITH 212.4 BBLs OF FRESH WATER W/ MAX LIFT @ 940 PSI W/ 205 BBLs AWAY @ 9.8 BPM, SLOWED DOWN TO 2 BPM FOR LAST 10 BBLs OF DISPLACEMENT W/ 490 PSI PRIOR TO BUMPING PLUG. BUMPED PLUG T/ 1,154 PSI. BLED 1 BBL BACK TO TRUCK AND FLOATS HELD. HAD NO RETURNS DURING CEMENT JOB. HAD 0 BBLs CEMENT BACK TO SURFACE. CEMENT DROPPED BACK 60'. TOPPED OUT W/ 130 SACKS, 27.5 BBLs OF 15.6 #, 1.19 FT<sup>3</sup>/SK 5.24 GAL/SK CEMENT. CEMENT TO SURFACE.