

## **TERRA ENERGY PARTNERS**

**H&P 271**

**Well# TR 443-22-597**

**API# 05-045-23700-00**

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

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

**SURFACE HOLE: 14-3/4" TD 2,854'**

### **Surface Casing Details: 2/9/2019**

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 ST&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 72 JOINTS OF SURFACE CASING. SHOE DEPTH 2,854'. FLOAT COLLAR DEPTH 2,823.8', PARASITE SUB @ 2,702.75'. RUN CENTRALIZERS ON FIRST THREE JTS, THEN 1 CENTRALIZER EVERY 4RD JOINT THERE AFTER INCLUDING 3 CEMENT BASKETS FOR A TOTAL OF 14 CENTRALIZERS, BOTTOM CENTRALIZER AT 2,842' AND TOP CENTRALIZER AT 313'. CASING SET DEPTH @ 2,854'. (RUN 83 JOINTS OF 1.90" 2.76# IJ J-55 TUBING FOR A PARASITE FROM SURFACE TO 2702.75'.)

### **Surface Cement Details: 2/10/19**

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 5 BBLS H2O, PUMPED ONE 10 BBL CALCIUM CHL. H2O SPACER, PUMPED ONE 5 BBL FRESH WATER SPACER, PUMPED ONE 10 BBL SUPER FLUSH SPACER, PUMPED ONE 5 BBL FRESH WATER SPACER, PUMPED 2ND 10 BBL CACL SPACER. PUMPED ONE 10 BBL FRESH WATER SPACER.

LEAD PUMPED 405.2 BBLS (960 SACKS) OF VARICEM 12.3 PPG, 2.37 YLD, 13.74 GAL/SK LEAD CEMENT W/ 50% EXCESS.

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 218.6 BBLS OF FRESH WATER W/ MAX LIFT @ 1,240 PSI W/ 200 BBLS AWAY @ 9.8 BPM, SLOWED DOWN TO 2 BPM FOR LAST 10 BBLS OF DISPLACEMENT W/ 650 PSI PRIOR TO BUMPING PLUG. BUMPED PLUG T/ 1,240 PSI. WITH APPROXIMATELY 60 BBLS CEMENT TO SURFACE. BLED 1 BBL BACK TO TRUCK AND FLOATS HELD. HAD RETURNS DURING CEMENT JOB. FLUSHED PARASITE STRING WITH 10 BBLS OF SUGAR WATER. CEMENT DROPPED BACK 78'. TOPPED OUT W/ 69 SACKS, 14.6 BBLS OF 15.6 #, 1.19 FT3/SK 5.24 GAL/SK CEMENT. CEMENT TO SURFACE.