

**H. W. ANDREWS #15**  
**WORKOVER PROCEDURE**  
**AFE NO. 97H28**

1. MIRU PULLING UNIT. INSTALL **7 1/16" X 3000** PSI WP FE *BARTON* FULL OPENING FRAC VALVE AND BOP. TOH W/ PRODUCTION EQUIPMENT AND LAY DOWN TBG. REMOVE BOP AND RDMO PULLING UNIT.
2. MIRU MAST TRUCK AND ELECTRIC LINE SERVICES. TIH W/ GUAGE RING AND JUNK BASKET TO **3260'**. TOH W/ GUAGE RING. TIH W/ CIBP ON WIRELINE AND SET PLUG @ **3250'**. TOH W/ SETTING TOOL . MIRU KILL TRUCK. LOAD CSG W/ **77** BBLs OF **2%** KCL WTR AND PRESSURE TEST CSG AND CIBP TO **3500** PSI. BLEED OFF PRESSURE AND RDMO KILL TRUCK.
3. TIH WITH **4"** CSG PERFORATING GUNS WITH HEGS CHARGES, **2** SPF AND **180** DEGREE PHASING. PERFORATE **5 1/2"** CSG AT THE FOLLOWING INTERVALS (**90'** OF PERFS W/ **193** SHOTS):

**3048'-57', 60'-62', 67'-71', 77'-81', 84'-87', 90', 96'-98',  
3103'-07', 14'-16', 32'-38', 52'-76', 82'-87' & 96'-3220'**

RDMO ELECTRIC LINE SERVICES.

4. MIRU **7 1/6" X 5 1/2" 10,000** PSI *GUARDIAN* WELLHEAD PROTECTION CSG HEAD SAVER. MIRU *HALLIBURTON FRACTURING SERVICES*. RU WELLHEAD FOR IMMEDIATE FLOW BACK. ESTABLISH RATE INTO PERFS @ **10** BPM W/ WELLBORE FLUID AND ACIDIZE THE EUMONT PERFS W/ **8000** GALS OF FOAMED **0.6%** FERCHECK **15%** HCL ACID @ **50** CO2 QUALITY. DIVERT THE ACID W/ **25 - 7/8" 1.3** RCN BALLS PER **700** GALS OF FOAMED ACID AFTER THE FIRST **3200** GALS FOR A TOTAL OF **XXX** BALLS USED. FLUSH TO THE BOTTOM PERF W/ **3220** GALS OF **100%** CO2. SURGE THE BALLS OFF THE PERFORATIONS AND ALLOW BALLS TO FALL TO THE BOTTOM OF THE WELL FOR A MINIMUM OF **30** MINUTES.
5. FRACTURE TREAT THE EUMONT PERFS WITH **91,000** GALS OF **60/55** QUALITY **40 #** *MY-T-GEL* CROSSLINKED GUAR GEL FOAM, **200** TONS OF CO2 AND **250,000** POUNDS OF **12/20** BRADY SAND @ **45** BPM DOWN **5 1/2"** CSG. QUALITY CONTROL WILL BE MONITORED BY *DICKIE LABS*. FLUSH THE FRAC TO THE BOTTOM PERF W/ **3220** GALS OF **100%** CO2 AND TURN THE WELL AROUND FOR IMMEDIATE FLOW BACK. RDMO *HALLIBURTON*.
6. FLOW BACK WELL TO CLEAN UP SAND AND CO2 FROM STIMULATION. RDMO *GUARDIAN* ONCE WELL HAS CLEANED UP.