SURFACE TEMP: 90 DEG F

5 1/2" X 2 7/8" TUBING HEAD SET TOP CLPG 12" AGL

K.B.: 13' G.L. ELEVATION 2235' (SHL)

NO TUBING SUBS

8 5/8" 23 LB/FT SURFACE CASING (NEW) 11 JOINTS TALLY 468' SET AT 485' (DRILL 12 1/4" DIA. BIT)

TOP OF ANHYDRITE AT 1150' or 1165' BOP ATTACHES TO 8 5/8" CASING 10 3/4" RING ON BRADEN HEAD CEMENT TO SURFACE WITH 300 SACKS - CIRCULATED PLUG DOWN AT 1900 HRS 6.30.2013 - BASIC ENERGY SERVICES 150 SACKS A SERVICE (6% GEL, 3% CC, 1/4 LB CF) AND 150 SACKS COMMON (2% CC AND 1/4 LB CF)

2 7/8" PRODUCTION TUBING 6.4 LB/FT API J55 UPSET (NEW) 139 JOINTS TOTAL -- 4522.77 ALSO 10 JTS BELOW TUBING ANCHOR

ALSO 1 JT BELOW PUMP 32.54' / JT AVG. EST.

5.5" PRODUCTION CASING (NEW) 15.50 LB/FT -- 132 JOINTS SET AT 5542' (DRILL 7 7/8" DIA. BIT - HOLE)

3800' TOP OF CEMENT (TOC)

SEE CEMENT TICKETS

 4526.8° - 2 7/8" x 5 1/2" TUBING ANCHOR (4' LONG) 20" STRETCH ON TUBING ANCHOR

10 JTS OF 2 7/8" TUBING (321.95')

2 7/8" STANDARD TUBING COUPLING 2 7/8" X 4' TUBING SUB

2.750" X 18' BORE PUMP BARREL 2 7/8" STANDARD TUBING COUPLING

2 7/8" STANDARD TUBING COUPLING

2 7/8" X 4' PERFORATED TUBING SUB (PUMP INTAKE) 4874.7'

2 7/8" STANDARD TURING COUPLING

2 7/8" X 32.55' JOINT OF TUBING 2 7/8" STANDARD TUBING COUPLING

2 7/8" STANDARD STEEL BULL PLUG (4" LONG) AT 4907.6"

MISSISSIPPIAN LIME PERFORATIONS 5031'-5171' (1 SPF) **GUN OWEN 4000-317**

0.450" DIA. 36.0" PEN.

PBTD: 5515' MD TVD RTD: 5570' MD TVD LTD: 5566' MD TVD DOWNHOLE TEMP: 150 DEG F

NOTES:

PUMPING UNIT: C - 456 -320 - 144 (104" SURFACE STROKE) CONVENTIONAL SENTRY UNIT (NEW) 50HP ELECTRIC MOTOR WITH 50 HP SPOCC VFD

VFD INSTALLED

RUN TIME: 24 HRS PER DAY 1.25" X 25' POLISHED ROD WITH LINER ASSEMBLY 2', 4', 4' AND 8' PONY RODS ON TOP (7/8" N97 GRADE) 1.50" X 22' HARD LINED POLISHED ROD LINER WITH SEAL

85 - 7/8" GRADE N97 SUCKER RODS ON TOP 103 - 3/4" GRADE N97 SUCKER RODS ON BOTTOM 4 - 1.50" X 25' SINKER BAR ON TOP OF PUMP

ONE 4' X 7/8" GRADE N97 PONY ROD ON BOTTOM (TOP OF PUMP) SPEED RANGE: 4 TO 13 SPM

MAX. SPEED: 13 SPM CURRENT SPEED: 10 SPM 9500 TO 10,000 LBS OF TOTAL ROD WEIGHT

MAX. DISPLACEMENT: 800+ BPD (2.75" BORE PUMP) TUBING ANCHOR SET IN HOLE

TUBULARS

| PURPOSE | CONDUCTOR | SURFACE | INTERMEDIATE | PRODUCTION | PROD. TUBING |
|---------------|-----------|---------------|--------------|---------------|---------------|
| SIZE | 13 3/8" | 8 5/8" | | 5 1/2" | 2 7/8" |
| WEIGHT | NONE | 2,946 PSIG | NONE | 15.5 LB/FT | 6.40 LB/FT |
| GRADE | NONE | J-55 | NONE | J-55 | J-55 |
| BURST | NONE | 24.0 LB/FT | NONE | 4,812 PSIG | 7,265 PSIG |
| COLLASPE | NONE | 381,395 LBF | NONE | 4,043 PSIG | 7,676 PSIG |
| YIELD | NONE | 1,434 PSIG | NONE | 248,274 LBF | 99,661 LBF |
| CAPACITY | NONE | 0.064 BBLS/FT | NONE | 0.024 BBLS/FT | 0.006 BBLS/FT |
| THICKNESS | NONE | 0.2640" | NONE | 0.2750" | 0.2170" |
| ID | NONE | 8.0970" | NONE | 4.9500" | 2.4410" |
| DRIFT ID | NONE | 7.9720" | NONE | 4.8250" | 2.3470" |
| AREA | NONE | 51.49 IN2 | NONE | 19.42 IN2 | 4.68 IN2 |
| SETTING DEPTH | NONE | 468' | NONE | 5,542' | 4900' IN WELL |
| LENGTH | NONE | 468' | NONE | 5,542' | NEED 5515' |
| FOB | NONE | CHASE, KS | NONE | CHASE, KS | CHASE, KS |
| COST | NONE | \$ /FT | NONE | \$ / FT | \$ /FT |

| DATE | 12/06/2012 | |
|--------------|----------------|--|
| APPROVED BY | B. KELSO | |
| AFE | 915 | |
| API No. | 15097217590000 | |
| GL ELEVATION | 2235' | |
| KB | 13' | |
| KB ELEVATION | 2248' | |
| RIG | KELSO | |

MISSISSIPPIAN LIME PERFORATIONS:

STAGE ONE FRAC ON 08/12/2013 AND PERFORATING ON 07/22/2013

37 PERFORATIONS FROM 5087 TO 5171 IN THE LOWER SECTION OF THE MISSISSIPPIAN LIME

PERFORATION DETAIL:

5087, 5088, 5089, 5090, 5091, 5092, 5093, 5094, 5095, 5096, 5097, 5098, 5099, 5105, 5113, 5125, 5127, 5129,

5130, 5132, 5134, 5135, 5140, 5142, 5144, 5146, 5148, 5151, 5152, 5154, 5155, 5156, 5157, 5158, 5162, 5167, 5171

TOTAL CROSS-SECTIONAL AREA: 5.884 IN2 (WIITH 37 - 0.450" HOLES)

PLUG BETWEEN STAGES SET ON 08/12/2013 5 ½" 15.50 LB/FT CIBP SET AT 5082 (IF THERE IS NO CASING COLLAR THERE)

STAGE TWO FRAC ON 08/12/2013

35 PERFORATIONS FROM 5031 TO 5075 IN THE UPPER SECTION OF THE MISSISSIPPIAN LIME

PERFORATION DETAIL:

5031, 5032, 5033, 5034, 5035, 5036, 5037, 5038, 5039, 5040, 5041, 5042, 5043, 5044, 5045, 5054, 5054, 5054, 5055, 5056, 5057, 5058, 5059, 5062, 5063, 5064, 5065, 5066,

5067, 5073, 5074, 5075

TOTAL CROSS-SECTIONAL AREA: 5.567 IN2 (WIITH 35 - 0.450" HOLES)

McCLAREN B #1

KIOWA COUNTY, KANSAS 06-T30S-R18W SHL: 330 FNL, 330 FEL BHL: 330 FNL, 330 FEL NICHOLS FIELD



DOWN HOLE SLICKER BOD PLIMP:

PUMP LENGTH: 18' (NICARD AND SS)

4' X 7/8" PONY ROD ON TOP OF PUMP PUMP INTAKE DEPTH: 4874

PUMP IS SETTING 157' ABOVE PERFS. EST.

2.75" TUBING PUMP

PUMP BBL ON TUBING

32.55