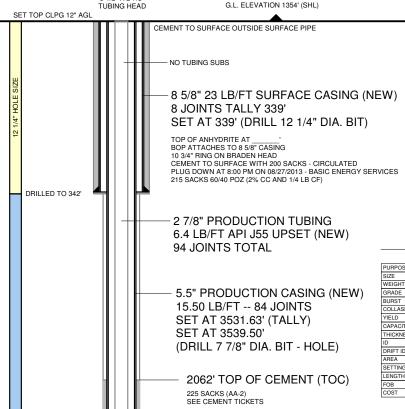
SURFACE TEMP: 30 DEG F

5 1/2" X 2 7/8" TUBING HEAD K.B.: 8'



2 7/8" STANDARD TUBING COUPLING 2 7/8" STANDARD SEATING NIPPLE

2 7/8" STANDARD TUBING COUPLING 2 7/8" X 15' STANDARD TUBING MUD ANCHOR PUMP INTAKE

NEW MISSISSIPPIAN CHERT/CHAT

3040'-3046' (RAT HOLE 3046' TO 3075' - 29')

OLD MISSISSIPPIAN CHERT/CHAT & LIME

3002' IS BOTTOM OF MUD ANCHOR

**PERFORATIONS** 

PERFORATIONS

## NOTES:

PUMPING UNIT: C - 160 -190 - 74 (74" SURFACE STROKE) CONVENTIONAL PARKERSBURG UNIT 30 HP ELECTRIC MOTOR WITH 50 HP SPOCC VFD VFD INSTALLED RUN TIME: 24 HRS PER DAY 1.25" X 16' POLISHED ROD WITH LINER ASSEMBLY (16') 2' PONY ROD ON TOP (7/8" GRADE D) (2') 1.50" X 8' HARD LINED POLISHED ROD LINER WITH SEAL (8') 42 - 7/8" GRADE D SUCKER RODS ON TOP (1350) 62 - 3/4" GRADE D SUCKER RODS ON BOTTOM (2075') 14 - 7/8" X 25' SINKER BAR ON TOP OF PUMP ONE 2' X 7/8" GRADE D PONY ROD ON BOTTOM (TOP OF PUMP) (2') SPEED RANGE: 4 TO 14 SPM MAX. SPEED: 14 SPM

CURRENT DISPLACEMENT: 390 BPD (2.00" BORE PUMP AT 12 SPM) MAX. DISPLACEMENT: 900 BPD (2.75" BORE PUMP W/TUBING ANCHOR)

**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	339'	NONE	3,532'	3,000' TO PUMP
LENGTH	NONE	339'	NONE	3,532'	NEED 3,525'
FOB	NONE	CHASE, KS	NONE	CHASE, KS	CHASE, KS
COST	NONE	\$/FT	NONE	\$/ FT	\$/FT

ERFORATIONS SQUEEZED OFF WITH 150 SACKS (12/16/2013 CEMENT FELL TO 3075' AND SET UP -- 3075' TO 3108' SEALED OFF

PERFORATIONS RE SQUUEZED OFF WITH 140 SACKS (12/18/2013) ALL PERFORATIONS ARE SEALED OFF -- 3040' TO 3075' SEALED OFF

DATE	07/29/2013	
APPROVED BY	B. KELSO	
AFE	TBD	
API No.	15035245130000	
GL ELEVATION	1354'	
KB	8'	
KB ELEVATION	1362'	
RIG	FOSSIL #2	

## MISSISSIPPIAN PERFORATIONS:

## SINGLE STAGE FRAC (22 HOLES TOTAL)

MISSISSIPPIAN CHERT/CHAT 3040'-3046' (2 SPF) HEIGHT (FT): 6 TOTAL HOLES: 13

AND

MISSISSIPPIAN LIME 3063'-3077' (1 SPF) HEIGHT (FT): 14 **TOTAL HOLES: 9** 3063, 3064, 3066, 3067, 3068, 3069, 3073, 3076 & 3077

AFTER FRAC (24 HOLES)

3081, 3082, 3083, 3084, 3085, 3086, 3087, 3088, 3089, 3098, 3099, 3100, 3101, 3102, 3103, 3104, 3105, 3106, 3107, 3108

\*(2 SPF ON 3081, 3087, 3103 & 3108)

RAT HOLE WILL BE FROM 3108' TO 3180' (72')

		3040'-3077' FRAC ON 10	J/04/2013
3060'		3081'-3108' OPEN AFTE	R FRAC
TOP OF FRAC SAND	CIBP -	7,000 PSIG CIBP SET AT 31	80' (NEW PBTD)
TEST THROUGH PIPE	1	MISSISSIPPIAN LIME PERFORATIONS	
	CIBP -	3192'-3196' (5 HOLES) 1 S	
TEST THROUGH PIPE		MISSISSIPPIAN LIME PERFORATIONS 3208'-3211' (4 HOLES) 1 S	GUN OWEN 4000-317 0.450" DIA.
TEST THROUGH PIPE	CIBP	7,000 PSIG CIBP SET AT 32 MISSISSIPPIAN LIME	
TEST	CIBP	PERFORATIONS 3218'-3219' (2 HOLES) 1 S 7,000 PSIG CIBP SET AT 34	
ARBUCKLE TOP THROUGH PIPE	-	ARBUCKLE	GUN OWEN 4039-323T

DOWN HOLE SUCKER ROD PUMP:

2.00" INSERT PUMP PUMP LENGTH: 16' (NICARD AND SS) BOTTOM HOLD DOWN TYPE TRAVELING BARREL 2' X 7/8" PONY ROD ON TOP OF PUMP 8' GAS SEPERATOR ON THE BOTTOM PUMP INTAKE DEPTH: 3002' PUMP IS SETTING 38' ABOVE THE PERFORATIONS GAS IS VENTING AT WELL HEAD (TUBING/CASING)

SQUEEZED OFF AND TOP 6' OPEN BACK UP

3075' TOC

3108' BOTTOM PERF

3040' TOP PERF

PBTD: 3500' MD TVD (NEW PBTD 3075') RTD: 3541' MD TVD

LTD: 3541' MD TVD DOWNHOLE TEMP: 120 DEG F

3486.0'-3486.5' (2 HOLES) 36.0" PEN.

## BAIR #1

COWLEY COUNTY, KANSAS 23-T32S-R06E SHL: 660 FSL, 660 FWL

LassoEnergy LC LORTON FIELD

BHL: 660 FSL, 660 FWL