

Customer Pollok Energy LLC	Lease No.	Date 1-15-19
Lease 12 Bar	Well # 17-12	
Field Order # 1742	Station P.O. H. K. 17-12	Casing 4 1/2
		Depth 5197.16
Type Job 1 1/2 Perforated - 2-47	Formation	County Butler
		State KS
		Legal Description 12-253-12W

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
Depth 5197.16	Depth	From	To	Pre Pad	Max		5 Min.	
Volume 82.6	Volume	From	To	Pad	Min		10 Min.	
Max Press 2400	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative David Hickman	Station Manager Bryan Wickman	Treater Francis Gordon						
Service Units 76865	7336	5672	19403	19862				
Driver Names D.S.	Bose	T.S.	Mike	M.K.C.				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1100					Arrive on site 11:15 AM
1130					Prep for job
1300					Temp 50 PA-7
					Chlorine 0 salt water < 200
					T. + 1 Pipe PAN- 5197.16' show - 2300'
					FSH 116 - 2-1 can 11000-25-2, 4, 6, 8, 10, 13
1330	950				circulated 30 min 4/0
1410	1100				circulated 30 min 8/0
1600	500				Pressure 1/10 - 3000
1630	160		12	4	Prep KBM 15 min
1635	160		5	4	Prep H2O 15 min
1638	160		6	4	Prep 25% 15 min
1640	160		0	4	Start prep 14 min
1650	160	3257		4	125% Premium Cement @ 14.4 gpm
1700	110		63.5	4	250% Prem - cement @ 14.4 gpm
1705					S/D Wash Pump 15 min
1710	100		0	6	D/P start 1700/2000
1719	230		53	6	average 1.5/1 pressure
1722	650		72	3	slow down to 1.5/1
1726	1500		87	3	low 1.5/1
1730			Log 100	650	check FL - F.H. 15 min
			400 - 1600.98	700-359602	Prep Barite - 30% 15 min

Pollok Energy Ilc

Z Bar 12-13 4.5 production

