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TREATMENT REPORT

Lease No. HAD EXPLORATION LLC Date 1-25-14
 Well # HAWK-DEBES UNIT #1
 Field Order # 2819 Station PRATT, KS Casing 8 7/8 Depth 680 County SMITHSON State KS
 Type Job CNW-SURFACE Formation 680-TD Legal Description 3-25-12

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
8 7/8				Pre Pad	Max		5 Min.
Depth 680	Depth	From	To	Pad	Min		10 Min.
Volume	Volume	From	To	Frac	Avg		15 Min.
Max Press	Max Press	From	To		HHP Used		Annulus Pressure
Well Connection	Annulus Vol.	From	To	Flush	Gas Volume		Total Load
Plug Depth	Packer Depth	From	To				

Customer Representative CONNOR Station Manager KEVIN Treater CONROY
 Service Units 19907 19885-19843 19871-19862
 Driver Names KG MCCRAW JOSH

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
0430					DN LOCATED
					RUN 686' 8 7/8 CSC.
					BROKE CORE
					WAX CEMENT
0545	200		77	6	175 SK A-COW 3% CC, 1/4 CC
	200		32	6	150 SK COMMON 2% CC, 1/4 CC
					STOP - DROP PLUG
	0		0	6	START DISP
0615	500		40.8	2	PLUG DOWN
					CORE 30' bbl. CEMENT TO PIT
0700					JOB COMPLETE - KEVIN

TREATMENT REPORT

Customer **Land D Exploration, LLC** Lease No. _____ Date **2-1-14**
 Lease **Hearn-Debes Unit** Well # **1**
 Field Order # **9854** Station **Pratt, Kansas** Casing" **5 1/2** Depth **4,215** Feet County **Stafford** State **Kansas**
 Type Job **C.N.W. - Longstring** Formation _____ Legal Description **3-255-12W**

PIPE DATA		PERFORATING DATA		CEMENT USED		TREATMENT RESUME			
Casing Size 5 1/2	Tubing Size 5 1/2	Shots/Ft 175	sacks 175	AA2 cement 175	with 5%	Fluid Loss 3%	Friction 3%	ISIP 5 Min.	5 Min.
Depth 4,215	Depth 4,215	From Reducer, 28"	To Defoamer, 18"	Gas Blot 10%	Salt 5%	5 Min.	5 Min.	5 Min.	5 Min.
Volume 100.3	Volume 100.3	From	To	15.2 Lb./Gal.	Min 2.63	Gal/stk. 1.38	10 Min.	10 Min.	10 Min.
Max Press	Max Press	From	To		Avg				
Well Connection Plug Container	Annulus Vol. 30	sacks 60/40	Poz to Plug Rat Hole	HHF Used					Annulus Pressure
Plug Depth 4,200	Packer Depth	From	To	Flush 100	Gas Volume				Total Load

Customer Representative **Gerald Schetz** Station Manager **Kevin Gordley** Treater **Clarence R. Messick**

Service Units	28,443	77,686	19,965	19,926	73,768
Driver Names	Messick	Mc Graw	Young		

Time	P.M.	Casing Pressure	Tubing Pressure	Bbbs. Pumped	Rate	Service Log
3:45						Trucks on location and hold safety meeting.
4:00						Southwind Drilling start to run Auto Fill Float Shoe, Shoe Joint with Lat Down Baffle screwed into collar and a total of 95 Joints new 15.5 Lb./Ft. 5 1/2" casing A Turbolizer was installed on collars # 1, 3, 5, 7, 9, 11, 13 and #15. A Baster was installed onto top of collar #3.
5:30						Casing in well. Circulate for 45 minutes
6:22			2000			Shut in well. Pressure Test. Open Well.
6:26		300			6	Start Fresh water Pre-Flush.
)		20	6	Start mud Flush.
				32	6	Start Fresh water spacer.
6:36		300		52	5	Start mixing 175 sacks AA2 cement
		0		95		Stop pumping. Shut in well. Wash pump and lines. Release Latch Down Plug. Open well.
7:00		150			26.5	Start Fresh water Displacement
				80	25	start to lift Cement
7:38		300		100		Plug down.
						Pressure up
						Release pressure. Float Shoe held
				7	3	Plug Rat Hole.
8:15						Wash up pump truck.
						Job Complete.

Thank You. Clarence, Mike, Steve
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