

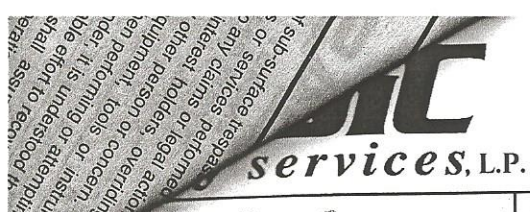
Deutsche Oil Company CURTIS		Lease No.	Date 12-16-16	
Well # 2-15				
Field Order # 74853	Station Pratt	Casing 8 5/8	Depth 436	County Pratt
Type Job Z 42 8 5/8 SURFACE		Formation	Legal Description 15-265-15W	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 8 5/8	Tubing Size	Shots/Ft		Acid 200 SWS AS	RATE 117 cc	PRESS 1/4 # SW CA	ISIP	
Depth 436	Depth	From	To	Pre Pad 6% SW	Max 330 cc		5 Min.	
Volume 27.7	Volume	From	To	Pad 200 SWS	Min 0.1 cc		10 Min. # 54 CA 2% SW	
Max Press 500	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth 416	Packer Depth	From	To	Flush 26.5	Gas Volume		Total Load	

Customer Representative Kurt Deutsch	Station Manager Kevin Gorbey	Treater Mike Mattal
Service Units 37586	81547 19843	70959 19862
Driver Names MIAMI	FRANKLIN	ADAMS

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
2:45					ON LOCATION / SAFETY MEETING
8:20					Run 8 5/8 23# CSNG
10:50					CSNG ON BOTTOM
11:00					HOOK TO CSNG / BREAK CIRC W. RIS
11:58	200		3	4	PUMP 3 bbl warm
11:59	200		59	4	MAX 200 SWS A SWK LIFE
12:15	250		48	4.5	MIX 200 SWS CONTINUED
12:33					Release Plug
12:36	200			5	START DISPLACEMENT
12:42	250		26.5		Plug down / shut in well 12 bbls TO PIT
					JOB COMPLETE
					Thank You!
					MIKE MATTAL
					DARIA + TOD





# TREATMENT REPORT

Lease No. \_\_\_\_\_ Date **12/13/2016**  
 Well # **2-4**  
 Field Order # **13950** Station **Pratt, KS** Casing **5 1/2** Depth **4144** County **Pratt** State **KS**  
 Type Job **242/5 1/2 LongString** Formation **TD-4150** Legal Description **4-26-11W**

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
<b>5 1/2</b>							
Depth <b>4144</b>	Depth	From	To	Pre Pad	Max		5 Min.
Volume <b>98.6</b>	Volume	From	To	Pad	Min		10 Min.
Max Press	Max Press	From	To	Frac	Avg		15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth <b>4123</b>	Packer Depth	From	To	Flush <b>Freshwater</b>	Gas Volume		Total Load

Customer Representative **Dave Pooley** Station Manager **Kevin Gorder** Treater **Darin Franklin**

Service Units	<b>92511</b>	<b>78982</b>	<b>86779</b>	<b>19960</b>	<b>73768</b>				
Driver Names	<b>Darin</b>	<b>Scott</b>	<b>Scott</b>	<b>Michael</b>	<b>Michael</b>				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<b>3:30am</b>					on location / safety meeting
					5 1/2 casing set at 4144'
					T-1,3,5,7,9,11 B-12
					150sk DAZ cement, 2% Detosmer, 10% S91t, 5% FLD-322, 5#/sk Gilsonite
					153ppg, 1.36 veild, 5.54water
<b>7:45am</b>	<b>300</b>		<b>5</b>	<b>5</b>	Pump 5 bbls water
	<b>300</b>		<b>12</b>	<b>5</b>	Pump 12 bbls Flush
	<b>300</b>		<b>5</b>	<b>5</b>	Pump 5 bbls water
			<b>36</b>	<b>5</b>	mix 150sk DAZ
					Shut down
					Wash pump & lines & Release Plug
	<b>150</b>		<b>0</b>	<b>6</b>	S91t displacement
			<b>70</b>	<b>6</b>	Lift Pressure
			<b>90</b>	<b>3</b>	Slow Rate
<b>8:30am</b>			<b>95</b>	<b>3</b>	Bump Plug
					Float - Held
	<b>100</b>		<b>7</b>	<b>3</b>	Plug set here - 30sk
					Job Complete / Darin & crew
					Thank you!!!