

**Judah Oil LLC**

**9 5/8" Casing and Cementing Report**

Consultant

Brad Tate / Gary Alley

Well Name Mile Marker 5 State SWD #1 Date: 12/17/2018  
 Section: 10 Township: 26 South Range: 28E  
 Surface: Inter #2: XXXX Production:                      Liner:                     

Casing Point/TD Time: 12:00 AM TD Date: 12/16/2018 Total Depth: 9725  
 Casing Delivered: 250 Joints, 43.50# and 47# 9.625" L 10006.61' Threads off

Casing Ran:	Weatherford 9.625" HCL-80 LTC FS	1.88	9724.81
<u>2</u> Joints	<u>9 5/8" 47# HCL-80 LTC</u>	<u>80.50</u>	
	Weatherford 9.625" HCL-80 LTC FC	1.27	9641.16
<u>43</u> Joints	<u>9 5/8" 47# HCL-80 LTC</u>	<u>1727.01</u>	
<u>39</u> Joints	<u>9 5/8" 43.50# HCL-80 LTC</u>	<u>1553.25</u>	
<u>          </u> Joints	<u>Weatherford ECP</u>	<u>24.75</u>	
<u>          </u> Joints	<u>Weatherford DV Tool</u>	<u>2.64</u>	6333.51
<u>96</u> Joints	<u>9 5/8" 43.50# HCL-80 LTC</u>	<u>3801.96</u>	
<u>          </u> Joints	<u>Weatherford ECP</u>	<u>27.32</u>	
<u>          </u> Joints	<u>Weatherford DV Tool</u>	<u>2.66</u>	2501.57
<u>61</u> Joints	<u>9 5/8" 43.50# HCL-80 LTC</u>	<u>2425.06</u>	
<u>2</u> Joints	<u>9 5/8" 47# HCL-80 LTC</u>	<u>81.08</u>	
	Total Length	<u>9729.38</u>	
	Less above KB	<u>-4.57</u>	
<b>243 Joints Run Total</b>	Casing set @	<u>9724.81</u>	

Cementing Company: Par 5 Energy Services DV tool tops: 6333 / 2501  
 Float Collar @ 9641', Float shoe @ 9725'

**1st Stage Cement Slurry:**  
 1st Lead: 540 sx 35/65 Pox H + 5% PF44 + 6% PF20 + 0.2% PF153 + 0.4#/sx PF45  
 Yield: 2.09 Cuft/sk Weight: 12.5# PPG  
 1st Tail: 200 sx Class H + 0.4% PF13  
 Yield: 1.18 Cuft/sk Weight: 15.6# PPG

Plug Down @: 1700 Hrs, 12-17-2018 with 870 to 1780 Psi. Inflate ECP, Open DV tool w/ 800 PSI.  
 Circulated: 107 Sx cement off of DV tool #1 to the surface.  
 Displaced casing with 714 bbls of Drilling Fluid (type of fluid)

**2nd Stage Cement Slurry:**  
 2nd Lead: 540 sx 35/65 Pox H + 5% PF44 + 6% PF20 + 0.2% PF153 + 0.4#/sx PF45  
 Yield: 2.09 Cuft/sk Weight: 12.5# PPG  
 2nd Tail: 200 Sx Class "C" + 0.3% PF13  
 Yield: 1.32 Cuft/sk Weight: 14.8# PPG

Plug Down @ 2100 Hrs, 12-17-2018 with 2130-3430 Psi. Inflate ECP, Open DV tool w/ 631 PSI.  
 Circulated: No cement off of DV tool #2 to the surface.  
 Displaced casing with 468 bbls of Drilling Fluid (type of fluid)

**3rd Stage Cement Slurry:**  
 2nd Lead: 540 sx 35/65 Pox H + 5% PF44 + 6% PF20 + 0.2% PF153 + 0.4#/sx PF45  
 Yield: 2.09 Cuft/sk Weight: 12.5# PPG  
 2nd Tail: 100 Sx Class "C" + 0.2% PF13  
 Yield: 1.32 Cuft/sk Weight: 14.8# PPG

Plug Down @: 2355 Hrs, 12-17-2018 with 2300 Psi. Floats all held every stage.  
 Circulated: 127 Sx cement off of DV tool #1 to the surface.  
 Displaced casing with 186 bbls of Drilling Fluid (type of fluid)

Close DV Tool #1 with 1780 Psi, Inflate Packer, Check Floats. Floats Held: Yes XX No  
 Close DV Tool #2 with 2130 Psi, Inflate Packer, Check Floats. Floats Held: Yes XX No  
 Close DV Tool #3 with 2300 Psi, Check Floats. Floats Held: Yes XX No

Centralizers #1, #4, Every 3rd joint and middle of joint above and below DV tools.  
and 3 Centralizers up inside 13 3/8" casing.