

University 19-5 #1

Section 5, Block 19, University Land Survey
1,525' FNL & 1,320' FWL
Haley Field - Loving County, Texas



SPUD 9/26/2004 TD 12/15/2004
DRILLING 9/26/2004
LAST REVISED 1/24/2023 WTS
WI 75.00% NRI 56.25%

GL 2,785'		KB 31'		DATE	AFE # 2046995 WINS # 64812																												
13-3/8" 68# HCN-80 BTC cmt w/ 4555 sxs		4,920'		1/12/2005	Run 3.76" Gauge Ring and CBL/CCL/GR - tag bottom @ 17,251'																												
TOC		6,700'		1/13/2005	RIH w/ coil tubing and drill out cement from 17,251 to 17,838 Circulate 2000 gal 15% NEFE and displace w/ 138 bbls 2% CaCl water																												
CIBP with 20' cement		9,515'		1/14/2005	Run CBL/CCL/GR - tag bottom @ 17,845' - TOC @ 6,000'																												
Perfs 9574 - 9588		Bone Spring 1		1/15/2005	Perf 17,825 to 17,826 and breakdown (3.0 bpm, 30 bbls, 11,534 psi)																												
10-3/4" 65.7# HCQ-125 BTC cmt w/ 550 sxs cmt w/ 1750 sx N2 top job		12,347'		1/16/2005	Continue perf from 17,320 to 17,701 after multiple gun failures																												
5-1/2" - 5" XO		13,130'		1/18/2005	Stage 1 Morrow - SICP: 8,600 psi, Acid: 2,000 gal, Frac Fluid: Slickwater, Total: 6,066 bbls, Sand: 34,000# 30/50 Bauxite, Max Conc: .5 ppg, ATP: 12,613 psi, AIR: 58.0 bpm, ISIP: 9,207 psi, Final ISIP: 9,521 psi																												
CIBP with 20' cement		15,200'			Set 5" Composite plug at 17,250 - negative test, plug held Perf 17,145 to 17,146 but could not breakdown Perf 17,080 to 17,081 and breakdown (? bpm, 20 bbls, 10,800 psi) continue perf from 16,607 to 16,976 Hydraulic valve closed on wireline 200' from surface - wireline and perf guns left in well																												
(Perfs) 6 spf, 0.4" EHD, 22.7 gm, 60°		Stg 3 - Strawn		1/19/2005	RIH w/ wireline and tag fish @ 17,012' - could not latch on and pushed fish to 17,050' decide to frac well w/ fish still in hole																												
(6) 15,245 - 15,246				1/20/2005	Stage 2 Morrow/Atoka - SICP: ? psi, Acid: 2,000 gal, Frac Fluid: Slickwater, Total: 8,229 bbls, Sand: 95,530# 30/50 Bauxite, Max Conc: 2.0 ppg, ATP: 11,568 psi, AIR: 62.0 bpm, ISIP: 8,491 psi, Final ISIP: 8,665 psi																												
(6) 15,340 - 15,341					Set 5" Weatherford Composite plug at 15,900 - negative test, plug held Perf 15,815 to 15,816 and breakdown (2.8 bpm, 10 bbls, 10,350 psi) continue perf from 15,245 to 15,719																												
(5) 15,390 - 15,391					Stage 3 Strawn - SICP: ? psi, Acid: 2,000 gal, Frac Fluid: Slickwater, Total: 11,280 bbls, Sand: 105,320# 30/50 Bauxite, Max Conc: 1.5 ppg, ATP: 11,745 psi, AIR: 70.0 bpm, ISIP: 7,870 psi, Final ISIP: 8,055 psi																												
(6) 15,718 - 15,719				1/21/2005	Set 5" Composite plug at 15,190 - set but could not shear off, pulled out of rope socket																												
(6) 15,815 - 15,816				1/27/2005	RIH w/ wireline and tag @ 15,130' - failed to grab Fish #2 and POOH, tools covered in bauxite																												
(29) Total Holes		16,474'		1/28/2005	RIH w/ coil tubing to mill bridge plugs, plug @ 15,190' unset during fishing, milled both plugs @ 15,900' with no problems, tag up on Fish #1 @ 17,057' POOH after repairs on surface - did not drill past 17,057'																												
Flow-Through Plug		16,477'		2/8/2005	RIH w/ gauge ring and junk basket, tag fill @ 16,950' - continue w/ production log																												
Fish #3		16,489'		3/26/2005	RIH w/ 2.347" gauge ring and tag fill @ 16,641'																												
Fish #1 and Fill				3/31/2005	RIH w/ coil tubing and drill out fill from 16,641 to 16,645, POOH for repairs																												
(Perfs) 6 spf, 0.4" EHD, 22.7 gm, 60°		Stg 2 - Morrow / Atoka		4/1/2005	RIH w/ coil tubing, tag fill @ 16,645' but made no hole, POOH for new coil reel																												
(6) 16,607 - 16,608				5/18/2005	RIH w/ 2.3" gauge ring and jars, tag Fish #1 @ 14,810' - tools trying to stick POOH w/o fish																												
(5) 16,695 - 16,696				6/9/2005	RIH w/ 2.246" gauge ring, tag @ 14,789' and POOH w/o fish																												
(5) 16,975 - 16,976				8/24/2005	Run Schlumberger memory pressure tool																												
(6) 17,080 - 17,081				8/26/2005	Use snubbing unit to run 2-3/8" P-110 tubing with WL grab and jars to get Fish #1																												
(6) 17,145 - 17,146				8/28/2005	Wireline grab tags up solid @ 16,489' - unable to stab Fish #1 - POOH																												
(28) Total Holes		17,250'		8/28/2005	RIH w/ wireline spear but unable to grab Fish #1																												
5" Composite Bridge Plug				8/30/2005	RIH w/ wireline spear, tag Fish #1 several times, push down to 16,489' but cannot latch on																												
(Perfs) 6 spf, 0.4" EHD, 22.7 gm, 60°		Stg 1 - Morrow		8/31/2005	RIH w/ wireline again, stick spear @ 16,480' and shear off tools - now Fish #3 Fish #3: all of wireline spear w/ 1.5" fishing neck looking up @ 16,477'																												
(5) 17,320 - 17,321				9/16/2005	RIH w/ 3.77" gauge ring, tag @ 16,477' on Fish #3																												
(5) 17,430 - 17,431				9/17/2005	Set flow-through plug @ 16,474' - 3' above Fish #3																												
(6) 17,660 - 17,661				1/13/2006	RIH w/ 1.80" gauge ring and tag @ 16,472'																												
(6) 17,700 - 17,701				1/19/2006	Use snubbing unit to run 480 joints 2-3/8" 4.7# P-110 AB MOD production tubing to 15,197' 1. 1.875" VX Nipple SS @ 15,167' 2. 1.875" VXN Nipple SS @ 15,178' 3. 2R Float Nipple @ 15,187'																												
(6) 17,825 - 17,826				1/24/2023	Set CIBP @ 9,515'. Dump bail 3 sacks cement on top of CIBP																												
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5" 23.11# P-110																																	
cmt w/ 2165 sxs		17,895'																															
BHT: 272 F																																	
				<table border="1"> <thead> <tr> <th>Tubular Dimensions</th> <th>Burst</th> <th>Collapse</th> <th>ID</th> <th>Drift</th> <th>bbl/ft</th> </tr> </thead> <tbody> <tr> <td>5-1/2"</td> <td>26#</td> <td>18930</td> <td>19770</td> <td>4.548</td> <td>4.423</td> <td>0.0201</td> </tr> <tr> <td>5"</td> <td>23.2#</td> <td>18400</td> <td>19020</td> <td>4.044</td> <td>3.919</td> <td>0.0158</td> </tr> <tr> <td>2-3/8"</td> <td>4.7#</td> <td>15400</td> <td>16130</td> <td>1.995</td> <td>1.901</td> <td>0.0039</td> </tr> </tbody> </table>			Tubular Dimensions	Burst	Collapse	ID	Drift	bbl/ft	5-1/2"	26#	18930	19770	4.548	4.423	0.0201	5"	23.2#	18400	19020	4.044	3.919	0.0158	2-3/8"	4.7#	15400	16130	1.995	1.901	0.0039
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