

Information Morrow Type Test Bottom Hole W/Sampler Date December 29, 1985

Anchor Length and Size 30' X 4 1/2" Total Depth 4605'

Marker Depths 4570' & 4575' Below Straddle

Equipment Run Two Packers, Jars, Safety Joint, Circulating Sub, Sample Chamber

Lengths: Tool 65' D. P. 3984' ID 3.8" Wt. P. ID D. C. 556' ID 2.25"

Fluid Type Chemical Vls. 38 Wt. 9.2 Wtr. Loss 8.0 Cl. 1200 ppm

Records: Depth 4581' Make Kuster Cap. 6525 Ser. No. 13644 Inside
Depth 4603' Make Kuster Cap. 6450 Ser. No. 6064 Outside
Depth _____ Make _____ Cap. _____ Ser. No. _____ Below Straddle

Pressures:

Tool on Bottom @ <u>3:45</u> A.M.	Initial Hydrostatic <u>2234</u> psi
Initial Flow <u>31</u> Min.	IFP <u>114</u> psi to <u>159</u> psi
Initial Shut-in <u>55</u> Min.	ISIP <u>765</u> psi
Final Flow <u>58</u> Min.	FFP <u>198</u> psi to <u>263</u> psi
Final Shut-in <u>115</u> Min.	FSIP <u>765</u> psi
Tool off Bottom @ <u>8:15</u> A.M.	Final Hydrostatic <u>2211</u> psi Temp. <u>122</u>

Flow: Initial Flow Period: Weak Increasing to 7" in Bucket

Final Flow Period: Weak Increasing to 5" in Bucket

Discovery: 285' Mud
240' Salt Water

Gas Flow:

Sampler Data:

Pressure 238 PSI
S .01 cu. ft.
Al Fluid 2000 cc
Oil ---- cc
Water 1700 cc
Mud 300 cc
Gravity _____ @ _____ °F.
S/Oil Ratio _____

Remarks:

Water Chlorides: 25,000 PPM
Resistivity: 0.1 OHMS @ 122 Degrees F.

Operator Roy Cooper Witnessed by: C E Biffle

SEC. 28 TWP. 34S RGE. 42W COUNTY Morton STATE Kansas TICKET NO. 2798

Hawkins Oil & Gas Co OPERATOR Herbert Riley # 1-28 WELL NAME & NO. # 1 TEST # 4575' - 4605' TEST INTERVAL

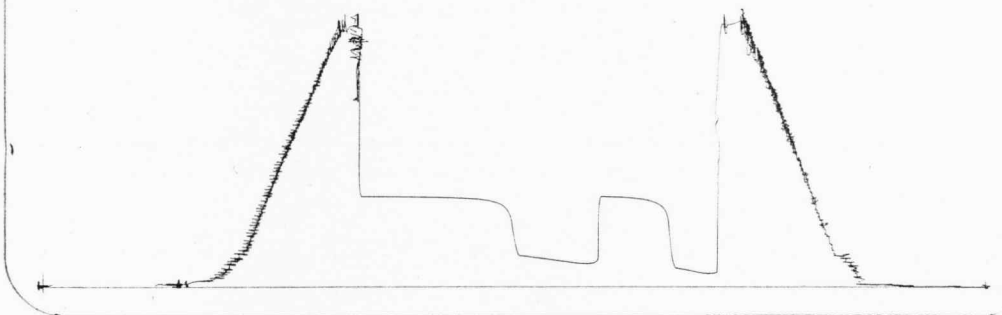
Pressure Break Down

Test ticket no. 2798 Recorder no. 13644 Capacity 6525 Rec. Depth. 4581'

Initial Flow pressure <u>114</u> to <u>159</u>	Time	Given <u>30</u>	Computed <u>31</u>
Initial Closed in pressure <u>765</u>		<u>60</u>	<u>55</u>
Final Flow pressure <u>198</u> to <u>263</u>		<u>60</u>	<u>58</u>
Final Closed-in pressure <u>765</u>		<u>120</u>	<u>115</u>
Initial Hydrostatic pressure <u>2234</u> Final Hydrostatic press. <u>2211</u> Temp <u>122</u>			

Initial Flow Press.		Initial Closed in Press.		Final Flow Press		Final Closed in Press.	
Minutes	Press	Minutes	Press	Minutes	Press	Minutes	Press
0	---	0	159	0	---	0	263
5	114	3	267	5	---	3	351
10	117	6	605	10	198	6	576
15	127	9	671	15	201	9	657
20	140	12	697	20	208	12	687
25	149	15	716	25	218	15	710
30	159	18	726	30	224	18	716
31 ~~XX~~	159	21	736	35	231	21	726
40		24	742	40	241	24	732
45		27	745	45	247	27	736
50		30	749	50	254	30	742
55		33	752	55	260	33	742
60		36	755	58 ~~XX~~	263	36	745
65		39	755	65		39	749
70		42	758	70		42	749
75		45	758	75		45	752
80		48	762	80		48	752
85		51	762	85		51	752
90		54	765	90		54	755
95		55 ~~XX~~	765	95		57	755
100		60		100		60	755
105		63		105		63	755
110		66		110		66	755
115		69		115		69	755
120		72		120		72	758
		75		125		75	758
		78		130		78	758
		81		135		81	758
		84		140		84	758
		87		145		87	758
		90		150		90	762
		93		155		93	762
		96		160		96	762
		99		165		99	762
		102		170		102	762
		105		175		105	762
		108		180		108	765
		111				111	765
		114				115 ~~XX~~	765
		117				117	
		120				120	

644



Initial Hydrostatic _____ 2234 _____ psi
 IFP _____ 114 _____ psi to _____ 159 _____ psi
 ISIP _____ 765 _____ psi
 FFP _____ 198 _____ psi to _____ 263 _____ psi
 FSIP _____ 765 _____ psi
 Final Hydrostatic _____ 2211 _____ psi

