

Formation Lower Morrow Type Test Conventional Date June 25, 1986
Anchor Length and Size 60' X 6 1/4" OD-D.C., 21' X 4 1/2" OD-Perf. Total Depth 5006'
Packer Depths 4920' & 4925' Below Straddle _____ Choke Size Bottom 5/8" Surface 1/4"
Equipment Run 2 Packers, Jars, Sfty. jnt., Circ.sub., Sampler

Lengths: Tool 119' D. P. 4439' ID 3.8" Wt. P. _____ ID _____ D. C. 451' ID 2.25"
Mud Type Chemical Vis. 50 Wt. 9.1 Wtr. Loss 9.2 Cl. 1,000 ppm

Recorders: Depth 4913' Make Kuster Cap. 6500 Ser. No. 10269 Inside
Depth 4942' Make Kuster Cap. 6450 Ser. No. 10268 Outside
Depth _____ Make _____ Cap. _____ Ser. No. _____ Below Straddle

Pressures:

Tool on Bottom @ <u>10:30</u> P.M.	Initial Hydrostatic <u>2418</u> psi
Initial Flow <u>30</u> Min.	IFP <u>96</u> psi to <u>106</u> psi
Initial Shut-in <u>56</u> Min.	ISIP <u>945</u> psi
Final Flow <u>58</u> Min.	FFP <u>125</u> psi to <u>145</u> psi
Final Shut-in <u>119</u> Min.	FSIP <u>1016</u> psi
Tool off Bottom @ <u>3:00</u> A.M.	Final Hydrostatic <u>2405</u> psi Temp. <u>137</u>

Blow: IFP- Weak increasing to good for 15 min. slowly decreasing to fair.
FFP- Weak thruout.

Recovery: 180' Slightly oil & gas cut mud. Top- 2,500 PPM Cl.
Bottom- 5,000 PPM Cl.

Gas Flow:

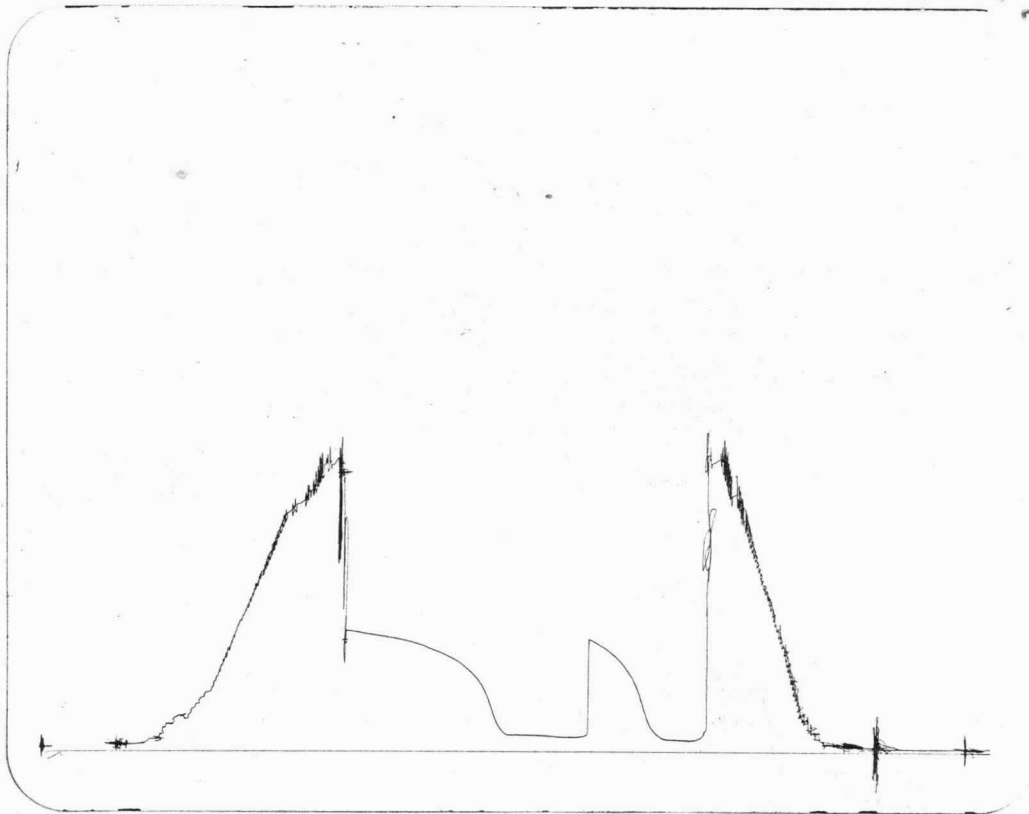
Sampler Data:

Pressure 60 PSI
Gas .04 cu. ft.
Total Fluid 1750 cc
Oil 150 cc
Water _____ cc
Mud 1600 oil cut cc
Oil Gravity _____ @ _____ °F.
Gas / Oil Ratio _____

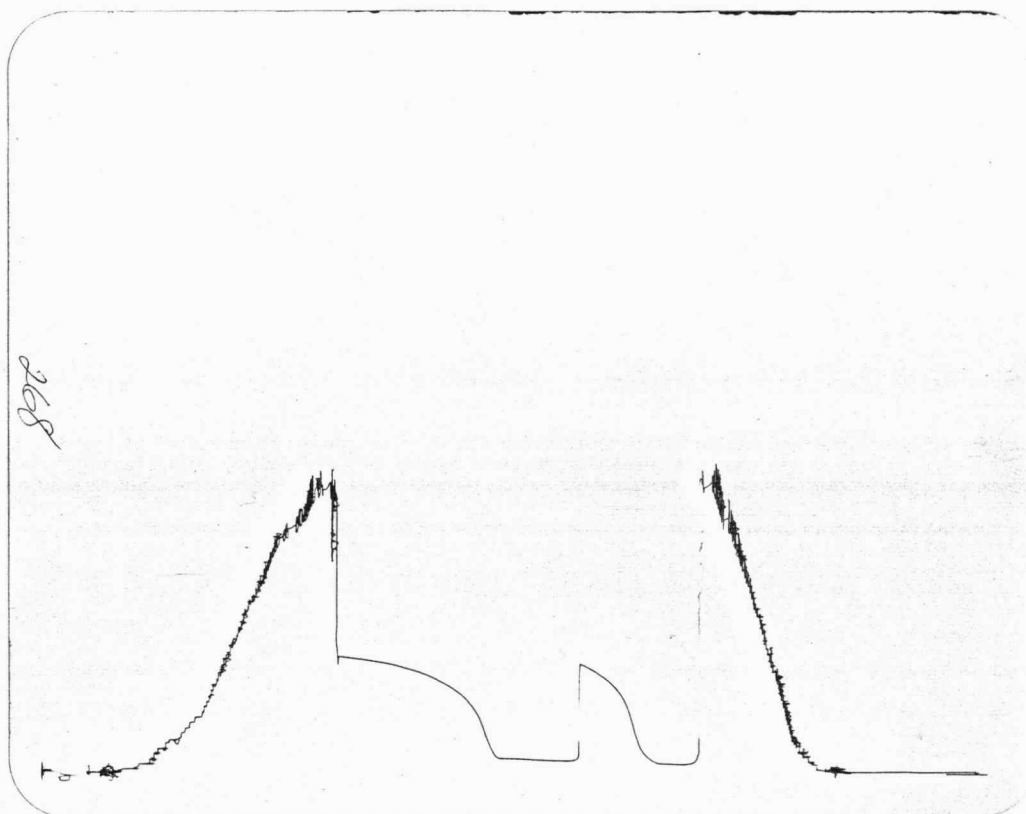
Remarks:

7,000 PPM Cl.

Tester R.L. Young Witnessed by: C.E. Biffle



Initial Hydrostatic _____ 2418 _____ psi
 IFP _____ 96 _____ psi to _____ 106 _____ psi
 ISIP _____ 945 _____ psi
 FFP _____ 125 _____ psi to _____ 145 _____ psi
 FSIP _____ 1016 _____ psi
 Final Hydrostatic _____ 2405 _____ psi



SEC. 21
TWP. 32S
RGE. 42W

COUNTY Morton

STATE Kansas

TICKET NO. 2990

Formation St. Louis Type Test Conventional Date June 29, 1986
Anchor Length and Size 30' X 6 1/2" OD-D.C. 30' X 4 1/2" OD-Perf. Total Depth 5450'
Packer Depths 5385' & 5390' Below Straddle _____ Choke Size Bottom 5/8" Surface 1/4"
Equipment Run 2 Packers, Jars, Sfty.jnt., Circ.sub., Sampler

Lengths: Tool 93' D. P. 4903' ID 3.8" Wt. P. _____ ID _____ D. C. 481' ID 2.25"
Mud Type Chemical Vis. 61 Wt. 9.2 Wtr. Loss 8.4 Cl. 950 ppm

Recorders:
Depth 5406' Make Kuster Cap. 6500 Ser. No. 10269 Inside
Depth 5415' Make Kuster Cap. 6450 Ser. No. 10268 Outside
Depth _____ Make _____ Cap. _____ Ser. No. _____ Below Straddle

Pressures:
Tool on Bottom @ 8:35 A.M. Initial Hydrostatic 2585 psi
Initial Flow 31 Min. IFP 125 psi to 195 psi
Initial Shut-In 59 Min. ISIP 1331 psi
Final Flow 61 Min. FFP 222 psi to 332 psi
Final Shut-In 118 Min. FSIP 1331 psi
Tool off Bottom @ 1:05 P.M. Final Hydrostatic 2578 psi Temp. 142

Blow: Weak thruout test.

Recovery: 630' Total fluid.
360' Gas Cut Mud
90' Gas Cut Watery Mud
180' Gas Cut Water

Gas Flow:

Sampler Data:

Pressure 120 PSI
Gas .11 cu. ft.
Total Fluid 1900 cc
Oil -- cc
Water 1700 10,000 PPM Cl cc
Mud 200 cc
Oil Gravity _____ @ _____ °F.
Gas/Oil Ratio _____

Remarks: Tool slid 10' after opened,
slid 1' during I.F.P.

Rw. -.20 @ 142

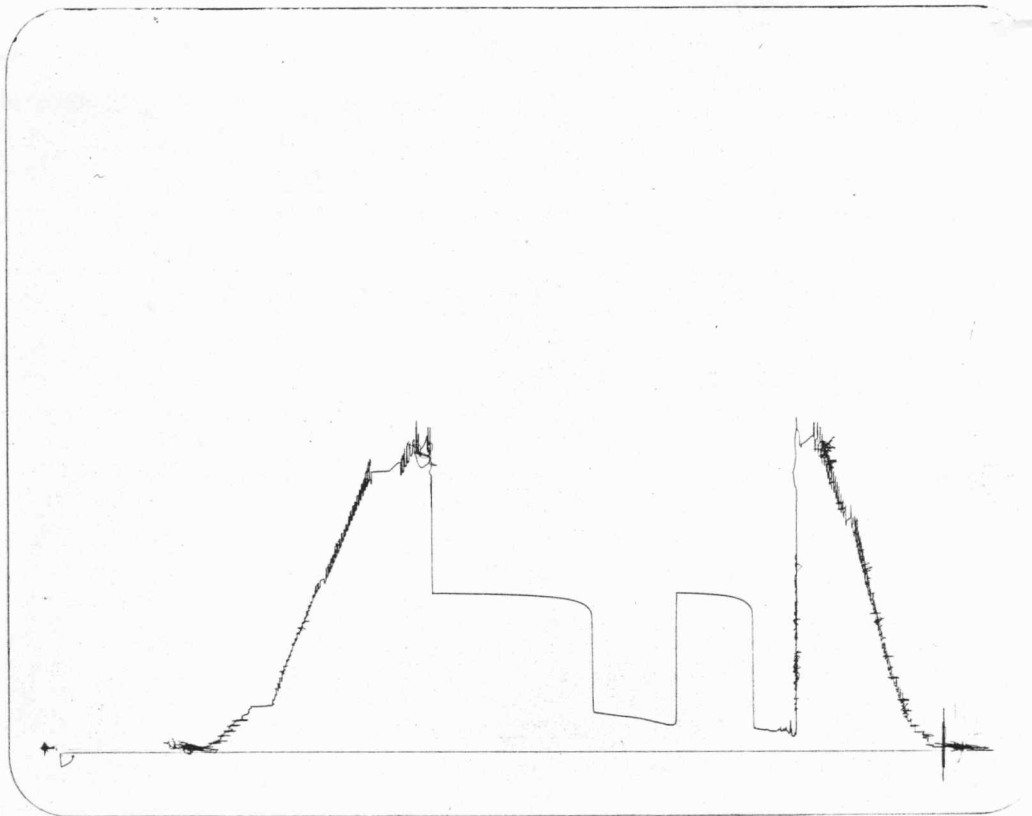
Tester R.L. Young Witnessed by: Stan L. Brady

Pressure Break Down

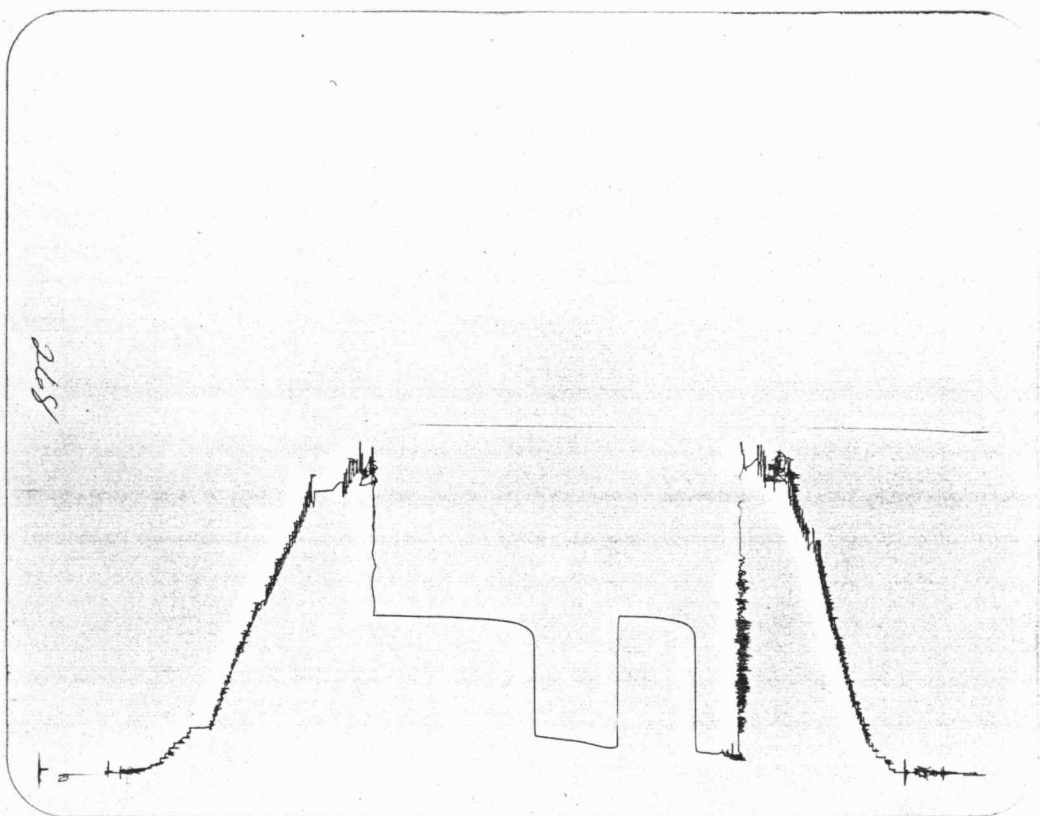
Test ticket no. 2990 Recorder no. 10269 Capacity 6500 Rec. Depth. 5406'

	Time	Given 30	Computed 31
Initial Flow pressure <u>125</u> to <u>195</u>			
Initial Closed in pressure <u>1331</u>		<u>60</u>	<u>59</u>
Final Flow pressure <u>222</u> to <u>332</u>		<u>60</u>	<u>61</u>
Final Closed-in pressure <u>1331</u>		<u>120</u>	<u>118</u>
Initial Hydrostatic pressure <u>2585</u>	Final Hydrostatic press. <u>2578</u>	Temp <u>142</u>	

Initial Flow Press.		Initial Closed in Press.		Final Flow Press		Final Closed in Press.	
Minutes	Press	Minutes	Press	Minutes	Press	Minutes	Press
0	125	0	195	0	--	0	332
5	Plugging	3	1221	5	222	3	1205
10	Action	6	1252	10	233	6	1234
15	166	9	1271	15	246	9	1252
20	172	12	1286	20	259	12	1265
25	180	15	1295	25	272	15	1273
30	193	18	1302	30	283	18	1281
31 xxx	195	21	1307	35	291	21	1286
40		24	1311	40	296	24	1291
45		27	1315	45	304	27	1297
50		30	1318	50	312	30	1300
55		33	1321	55	320	33	1303
60		36	1324	60	329	36	1305
65		39	1326	61 xxx	332	39	1308
70		42	1327	70		42	1310
75		45	1329	75		45	1311
80		48	1329	80		48	1313
85		51	1331	85		51	1315
90		54	1331	90		54	1316
95		57	1331	95		57	1316
100		59 xx	1331	100		60	1318
105		63		105		63	
110		66		110		66	1321
115		69		115		69	
120		72		120		72	1323
		75		125		75	
		78		130		78	1325
		81		135		81	
		84		140		84	1327
		87		145		87	
		90		150		90	1327
		93		155		93	
		96		160		96	1329
		99		165		99	
		102		170		102	1331
		105		175		105	
		108		180		108	1331
		111				111	
		114				114	1331
		117				117	
		120				118 xxx	1331



Initial Hydrostatic _____ 2585 _____ psi
 IFP _____ 125 _____ psi to _____ 195 _____ psi
 ISIP _____ 1331 _____ psi
 FFP _____ 222 _____ psi to _____ 332 _____ psi
 FSIP _____ 1331 _____ psi
 Final Hydrostatic _____ 2578 _____ psi



Formation Lower Morrow Type Test Hook Straddle Misrun Date June 30, 1986

Anchor Length and Size _____ Total Depth 5450'

Packer Depths _____ Below Straddle _____ Choke Size Bottom 5/8" Surface _____

Equipment Run 3 Packers, Jars, Sfty.jnt., Circ.sub., Sampler, Hook Assembly, Straddle

Lengths: Tool _____ D. P. _____ ID _____ Wt. P. _____ ID _____ D. C. _____ ID _____

Mud Type _____ Vls. _____ Wt. _____ Wtr. Loss _____ Cl. _____ ppm

Recorders:

Depth _____ Make _____ Cap. _____ Ser. No. _____ Inside

Depth _____ Make _____ Cap. _____ Ser. No. _____ Outside

Depth _____ Make _____ Cap. _____ Ser. No. _____ Below Straddle

Pressures:

Tool on Bottom @ _____ M. Initial Hydrostatic _____ psi

Initial Flow _____ Min. IFP _____ psi to _____ psi

Initial Shut-In _____ Min. ISIP _____ psi

Final Flow _____ Min. FFP _____ psi to _____ psi

Final Shut-In _____ Min. FSIP _____ psi

Tool off Bottom @ _____ M. Final Hydrostatic _____ psi Temp. _____

Blow:

Recovery:

Gas Flow:

Sampler Data:

Pressure _____ PSI

Gas _____ cu. ft.

Total Fluid _____ cc

Oil _____ cc

Water _____ cc

Mud _____ cc

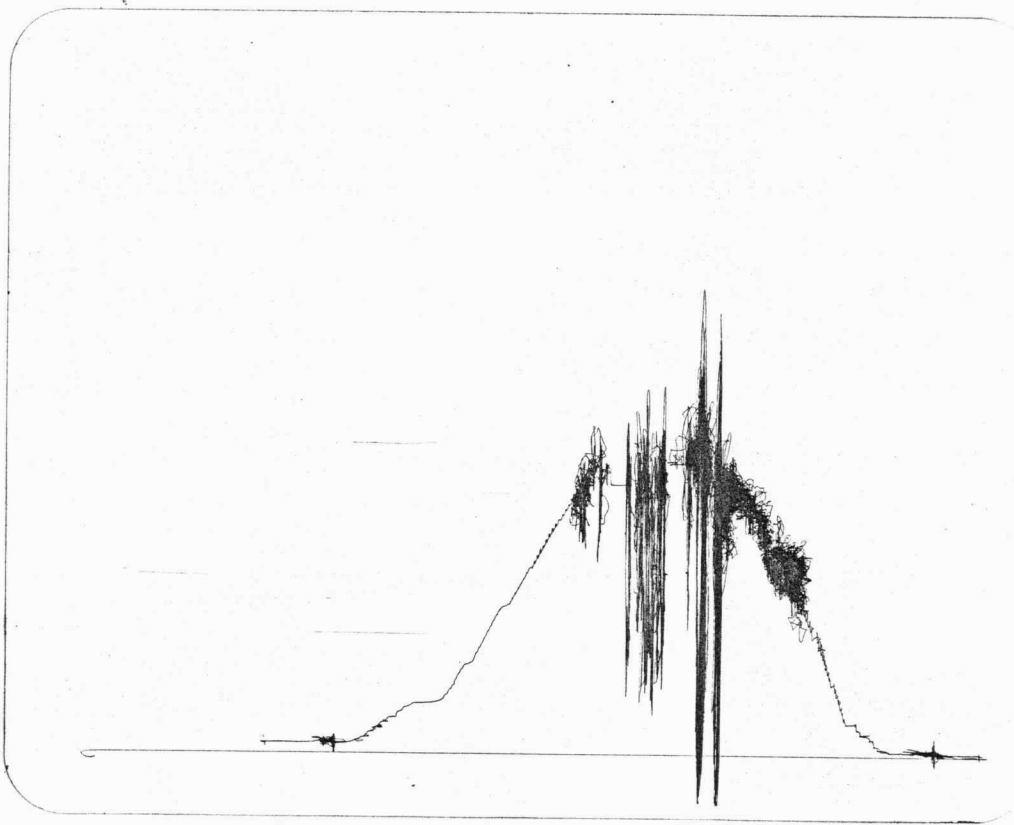
Oil Gravity _____ @ _____ °F.

Gas/Oil Ratio _____

Remarks:

Hit bridge @ 2810'. Hole tight to 5026'. Set hook, opened tool and hook unseated. Could not reset hook.

Tester R.L. Young Witnessed by: Stan Brady



Initial Hydrostatic _____ psi
 IFP _____ psi to _____ psi
 ISIP _____ psi
 FFP _____ psi to _____ psi
 FSIP _____ psi
 Final Hydrostatic _____ psi

