

Formation Lansing Type Test Bottom Hole W/ Sample Date April 3, 1986
Anchor Length and Size 17' X 4 1/2" Total Depth 3468'
Packer Depths 3446' & 3451' Below Straddle _____ Choke Size Bottom 5/8" Surface 1/4"
Equipment Run Two Packers, Jars, Safety Joint, Circulating Sub, Sample Chamber

Lengths: Tool 55' D. P. 2801' ID 3.8" Wt. P. _____ ID _____ D. C. 626' ID 2.25"
Mud Type Chemical Vis. 38 Wt. 9.1 Wtr. Loss 12.8 Cl. 900 ppm

Recorders: Depth 3439' Make Kuster Cap. 6500 Ser. No. 10269 Inside
Depth 3466' Make Kuster Cap. 6450 Ser. No. 10268 Outside
Depth _____ Make _____ Cap. _____ Ser. No. _____ Below Straddle

Pressures:

Tool on Bottom @ <u>3:25</u> <u>A</u> M.	Initial Hydrostatic <u>1673</u> psi
Initial Flow <u>30</u> Min.	IFP <u>43</u> psi to <u>48</u> psi
Initial Shut-in <u>59</u> Min.	ISIP <u>569</u> psi
Final Flow <u>45</u> Min.	FFP <u>61</u> psi to <u>70</u> psi
Final Shut-in <u>89</u> Min.	FSIP <u>562</u> psi
Tool off Bottom @ <u>7:10</u> <u>A</u> M.	Final Hydrostatic <u>1651</u> psi Temp. <u>105</u>

Blow: Initial Flow Period: Weak
Final Flow Period: Weak Dying at 35 Minutes into Final Flow

Recovery: 80' Mud Mud Chlorides: 2800 PPM

Gas Flow:

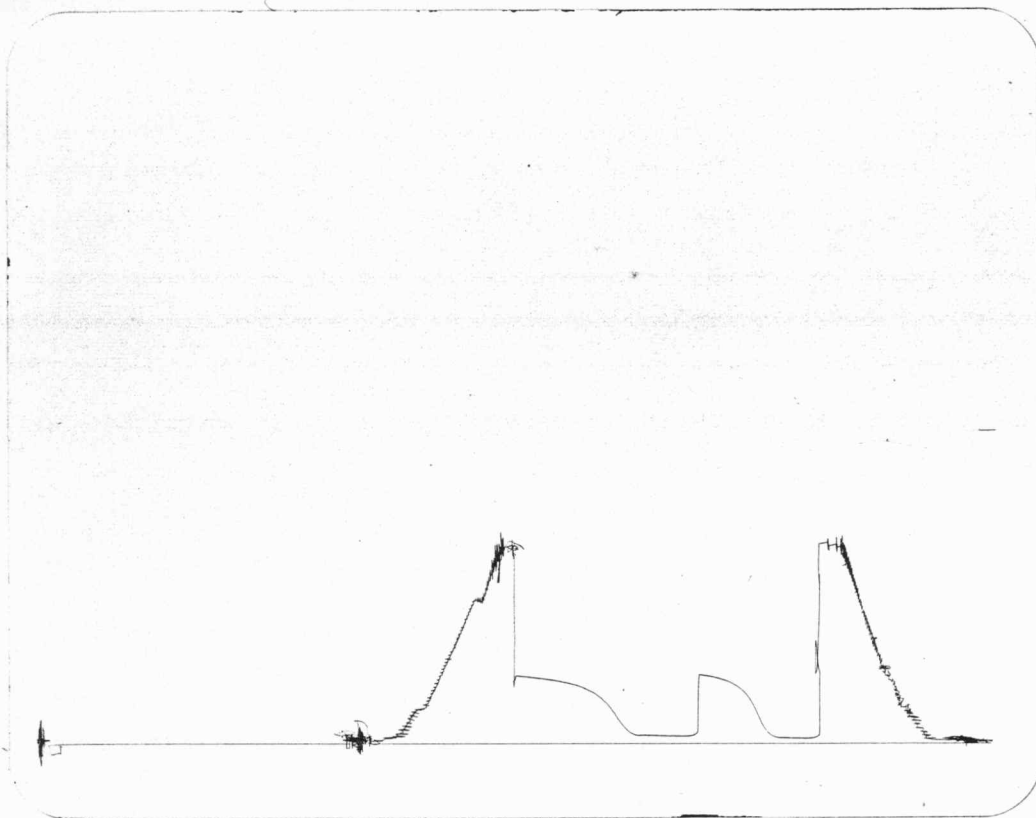
Sampler Data:

Pressure 60 PSI
Gas 0.0 cu. ft.
Total Fluid 1800 cc
Oil ---- cc
Water 1800 Muddy Water cc
Mud ---- cc
Oil Gravity _____ @ _____ °F.
Gas / Oil Ratio _____

Remarks:

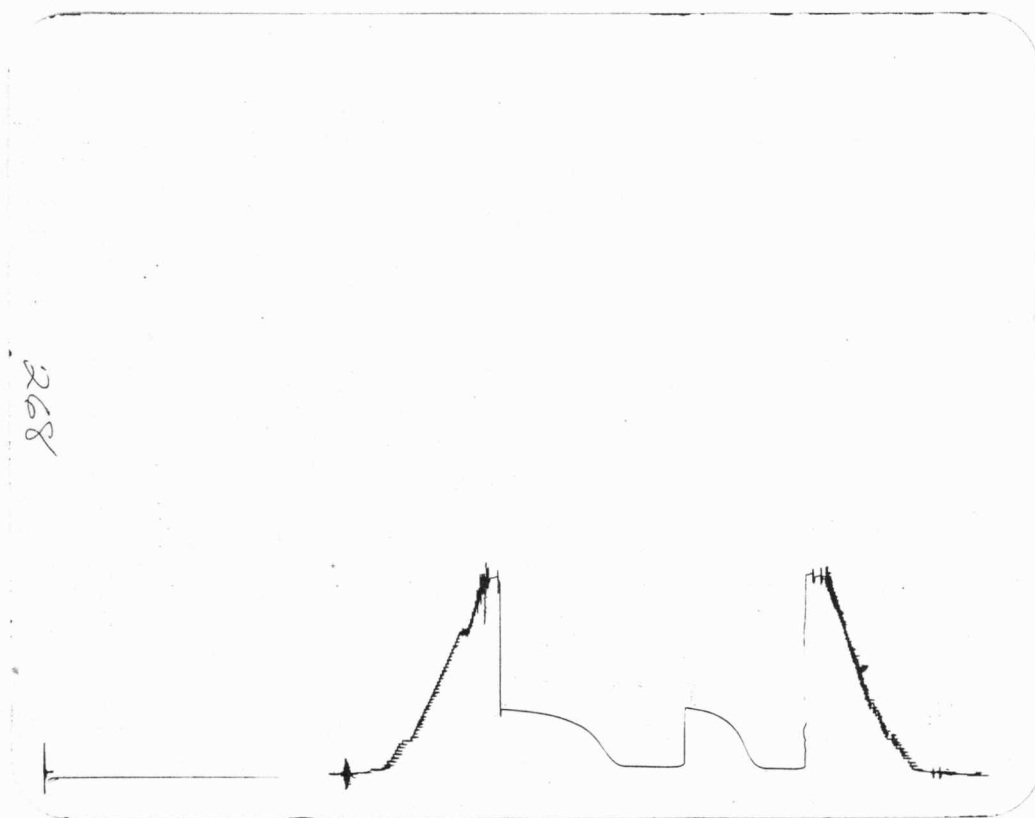
Chlorides: 8900 PPM

Tester R L Young Witnessed by: Stan Brady



Initial Hydrostatic _____ 1673 _____ psi
 IFP _____ 43 _____ psi to _____ 48 _____ psi
 ISIP _____ 569 _____ psi
 FFP _____ 61 _____ psi to _____ 70 _____ psi
 FSIP _____ 562 _____ psi
 Final Hydrostatic _____ 1651 _____ psi

268



PHONE
316 / 624-7340

DEAN'S TESTERS INC.

P. O. BOX 1182
LIBERAL, Ks. 67901

Formation Morrow Type Test Bottom Hole W/Sampler Date April 7, 1986

Anchor Length and Size 75'- 60' X 6½" & 15' X 4½" Total Depth 4980'

Packer Depths 4900' & 4905' Below Straddle _____ Choke Size Bottom 5/8" Surface 1"

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

Lengths: Tool 115' D. P. 4319' ID 3.8" Wt. P. _____ ID _____ D. C. 566' ID 2.25"

Mud Type Chemical Vis. 40 Wt. 9.0 Wtr. Loss 8.0 Cl. 600 ppm

Recorders:

Depth <u>4893'</u>	Make <u>Kuster</u>	Cap. <u>6500</u>	Ser. No. <u>10269</u>	Inside
Depth <u>4916'</u>	Make <u>Kuster</u>	Cap. <u>6450</u>	Ser. No. <u>10268</u>	Outside
Depth _____	Make _____	Cap. _____	Ser. No. _____	Below Straddle

Pressures:

Tool on Bottom @ <u>9:00</u> <u>P</u> M.	Initial Hydrostatic <u>2327</u> psi
Initial Flow <u>29</u> Min.	IFP <u>448</u> psi to <u>412</u> psi
Initial Shut-in <u>59</u> Min.	ISIP <u>1069</u> psi
Final Flow <u>44</u> Min.	FFP <u>430</u> psi to <u>403</u> psi
Final Shut-in <u>117</u> Min.	FSIP <u>1061</u> psi
Tool off Bottom @ <u>1:15</u> <u>A</u> M.	Final Hydrostatic <u>2319</u> psi Temp. <u>136</u>

Blow: Strong Throughout: Gas to Surface in 2 Minutes of Initial Flow Period.

Recovery: 75' Slightly Oil Cut Mud

Gas Flow: Gauged at 1,764 MCF/D, Through an 1 1/4" Orifice, Stabilizing at 30 Minutes into Final Flow Period.

Sampler Data:

Pressure 420 PSI

Gas 2.35 cu. ft.

Total Fluid 100 cc

Oil --- cc

Water --- cc

Mud 100 cc Slightly Oil Cut cc

Oil Gravity _____ @ _____ °F.

Gas / Oil Ratio _____

Remarks:

Tester R L Young Witnessed by: Stan Brady

SEC. 28 TWP. 32S RGE. 42W COUNTY Morton STATE Kansas TICKET NO. 2980

HAWKINS OIL & GAS INC.
OPERATOR

WELL NAME & NO.

TEST #

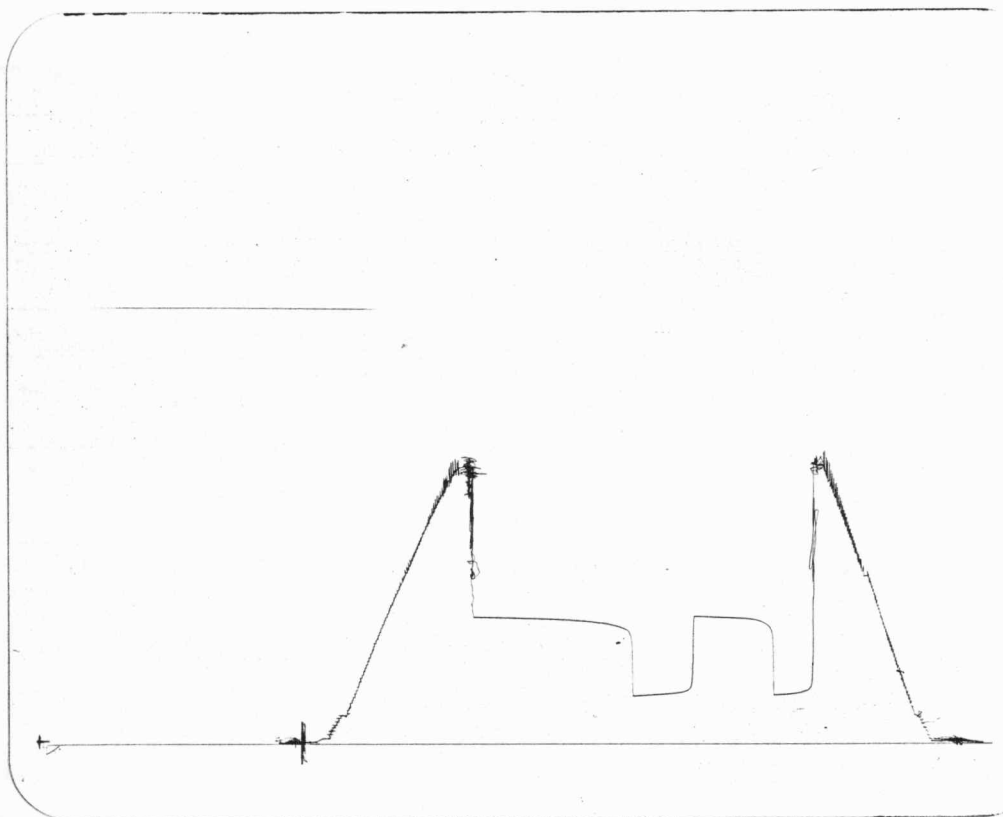
TEST INTERVAL

Pressure Break Down

Test ticket no. 2980 Recorder no. 10269 Capacity 6500 Rec. Depth. 4893'

	Time	Given 30	Computed 29
Initial Flow pressure <u>448</u> to <u>412</u>			
Initial Closed in pressure <u>1069</u>		<u>60</u>	<u>59</u>
Final Flow pressure <u>430</u> to <u>403</u>		<u>45</u>	<u>44</u>
Final Closed-in pressure <u>1061</u>		<u>120</u>	<u>117</u>
Initial Hydrostatic pressure <u>2327</u>	Final Hydrostatic press. <u>2319</u>	Temp <u>136</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	412	0	---	0	403
5	448	3	967	5	---	3	935
10	432	6	1004	10	430	6	961
15	424	9	1022	15	424	9	977
20	417	12	1035	20	419	12	988
25	414	15	1043	25	414	15	998
29 30	412	18	1048	30	411	18	1004
35		21	1053	35	408	21	1011
40		24	1053	40	406	24	1016
45		27	1054	44 45	403	27	1019
50		30	1056	50		30	1024
55		33	1057	55		33	1027
60		36	1059	60		36	1030
65		39	1059	65		39	1032
70		42	1061	70		42	1035
75		45	1062	75		45	1038
80		48	1064	80		48	1040
85		51	1065	85		51	1041
90		54	1067	90		54	1043
95		57	1069	95		57	1045
100		59 60	1069	100		60	1046
105		63		105		63	1048
110		66		110		66	1048
115		69		115		69	1049
120		72		120		72	1051
		75		125		75	1053
		78		130		78	1053
		81		135		81	1054
		84		140		84	1054
		87		145		87	1056
		90		150		90	1056
		93		155		93	1057
		96		160		96	1057
		99		165		99	1059
		102		170		102	1059
		105		175		105	1061
		108		180		108	1061
		111				111	1061
		114				114	1061
		117				117	1061
		120				120	



Initial Hydrostatic _____ 2327 _____ psi
 IFP _____ 448 _____ psi to _____ 412 _____ psi
 ISIP _____ 1069 _____ psi
 FFP _____ 430 _____ psi to _____ 403 _____ psi
 FSIP _____ 1061 _____ psi
 Final Hydrostatic _____ 2319 _____ psi

