

PHONE
316 / 624-7340

DEAN'S TESTERS INC.

P. O. BOX 1182
LIBERAL, Ks. 67901

Formation Lansing Type Test Conventional Date June 19, 1986
Anchor Length and Size 15' X 4 1/2" OD Total Depth 3723'
Packer Depths 3703' & 3708' Below Straddle _____ Choke Size Bottom 5/8" Surface 1"
Equipment Run 2 Packers, Jars, Sfty. jnt., Circ. sub., Sampler

Lengths: Tool 53' D. P. 3138' ID 3.8" Wt. P. _____ ID _____ D. C. 544' ID 2.25"
Mud Type Chemical Vls. 39 Wt. 9.1 Wtr. Loss 10.4 Cl. 700 ppm
Recorders: Depth 3696' Make Kuster Cap. 6500 Ser. No. 10269 Inside
Depth 3721' Make Kuster Cap. 6450 Ser. No. 10268 Outside
Depth _____ Make _____ Cap. _____ Ser. No. _____ Below Straddle

Pressures:

Tool on Bottom @ 12:00 P. M. Initial Hydrostatic 1787 psi
Initial Flow 30 Min. IFP 237 psi to 264 psi
Initial Shut-in 59 Min. ISIP 735 psi
Final Flow 59 Min. FFP 269 psi to 293 psi
Final Shut-in 121 Min. FSIP 735 psi
Tool off Bottom @ 4:30 P. M. Final Hydrostatic 1781 psi Temp. 112

Blow: Strong thruout. Gas to surface in 3 min.

Recovery:

270' Total fluid
30' Gas cut mud Top sample 27,000 PPM Cl.
240' Gas cut salt water. Middle 59,000 PPM Cl.
Bottom 69,000 PPM Cl.

Gas Flow: 1120 MCF/D @ end of flow period.

Sampler Data:

Pressure 400 PSI
Gas 2.055 cu. ft.
Total Fluid 200 cc
Oil _____ cc
Water 200 75,000 PPM Cl. cc
Mud _____ cc
Oil Gravity _____ @ _____ °F.
Gas/Oil Ratio _____

Remarks:

Rw. - .047 @ 112 F

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

SEC. 20 TWP. 32S RGE. 43W COUNTY Morton STATE Kans. TICKET NO. 2987

Hawkins Oil & Gas, Inc.
OPERATOR

SCOTT #A-1
WELL NAME & NO.

TEST #

TEST INTERVAL

Mobile — 316/624-6247

Unit #935



P.O. Box 1182

Liberal, Kansas 67901

Company Hawkins Oil & Gas, Inc.

Well Scott #A-1

Test # 1Interval 3708' - 3723'

Method of Gauge Merla 2'' Quick-Change Orifice Well Tester

[illegible]

Surface Choke 1"

Bottom Choke 5/8"

Remarks: Gas to surface in 3 min.

Pressure Break Down

est ticket no. 2987 Recorder no. 10269 Capacity 6500 Rec. Depth. 3696'

Initial Flow pressure 237 to 264 Time Given 30 Computed 30

Initial Closed in pressure 735 60 59

inal Flow pressure 269 to 293 60 59

Final Closed-in pressure 735 120 121

Initial Hydrostatic pressure 1787 Final Hydrostatic press. 1781 Temp 112

Initial Flow Press.

Minutes	Press
0	--
5	237
10	241
15	248
20	254
25	261
30	264
35	
40	
45	
50	
55	
60	
65	
70	
75	
80	
85	
90	
95	
100	
105	
110	
115	
120	

Initial Closed in Press.

Minutes	Press
0	264
3	709
6	719
9	724
12	727
15	729
18	731
21	733
24	733
27	733
30	735
33	735
36	735
39	735
42	735
45	735
48	735
51	735
54	735
57	735
59 x60x	735
63	
66	
69	
72	
75	
78	
81	
84	
87	
90	
93	
96	
99	
102	
105	
108	
111	
114	
117	
120	

Final Flow Press

Minutes	Press
0	--
5	269
10	269
15	270
20	272
25	275
30	279
35	282
40	285
45	288
50	290
55	291
59	293
60	
65	
70	
75	
80	
85	
90	
95	
100	
105	
110	
115	
120	
125	
130	
135	
140	
145	
150	
155	
160	
165	
170	
175	
180	

Final Closed in Press.

Minutes	Press
0	293
3	704
6	716
9	722
12	725
15	727
18	729
21	730
24	732
27	732
30	732
33	733
36	733
39	733
42	735
45	735
48	735
51	
54	735
57	
60	735
63	
66	735
69	
72	735
75	
78	735
81	
84	735
87	
90	735
93	
96	735
99	
102	735
105	
108	735
111	
114	735
117	
120	735

Sample Number: 86-71

FUEL LAB
GAS ANALYSIS REPORT

Operator: HAWKINS OIL & G
Well Name: SCOTT #A-1
Location: sec 20 twp 32 rse 43
County: MORTON
State: KANSAS

Analysis Date: 6-19-86
Sample Date: 6-19-86
Sample Pressure: 35psia
Sample Temperature: F

Sample Source: DST #1
Formation: LANSING

Perfs from: 3708 TO 3723

Requested by: DEAN'S TESTERS

Sampled by: BLAGRAVE
ANALYST: LRL

[illegible]

NATURAL GAS ANALYSIS

INDEX 50

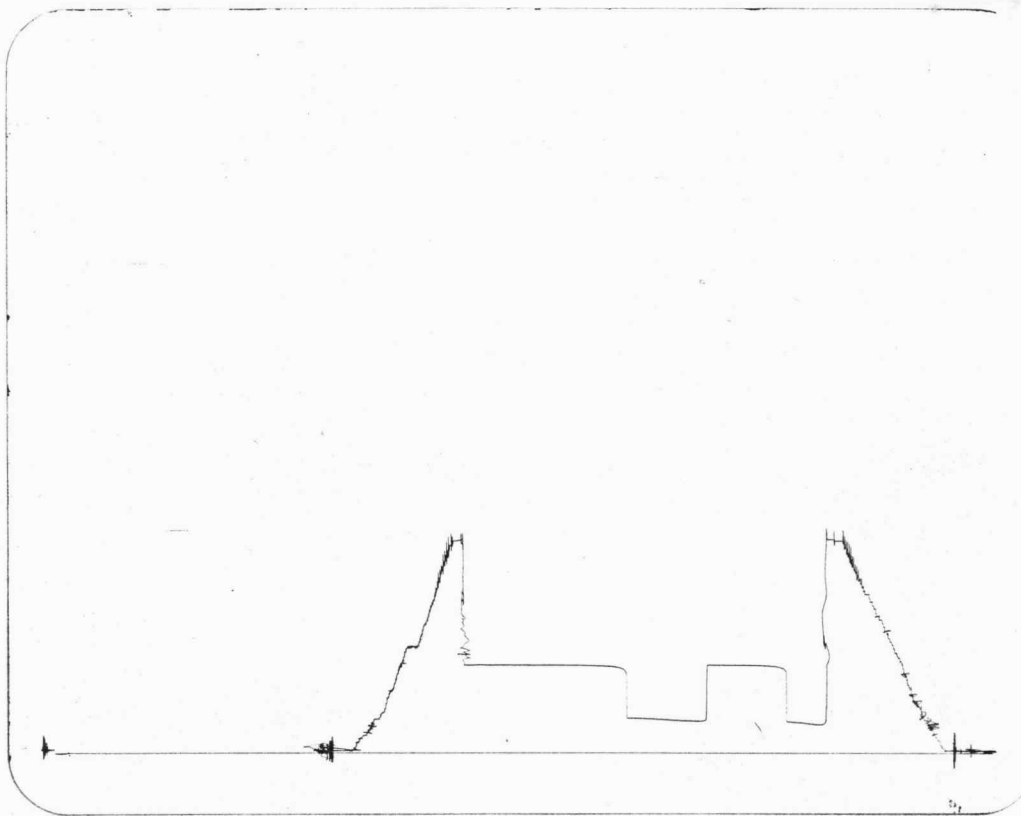
NAME	MOLE%	B. T. U.	COMP	SP. GR.	GPM
HELIUM	0.987	0.	0.	0.0014	0.
HYDROGEN	0.	0.	0.	0.	0.
C6+	0.771	38.9501	0.0071	0.0249	0.3353
NITROGEN	43.601	0.	0.4359	0.4227	0.
METHANE	48.465	481.936	0.4837	0.2691	0.
CARBON DIO	0.004	0.	0.	0.0001	0.
ETHANE	2.877	50.1202	0.0285	0.0299	0.769
PROPANE	1.959	48.5714	0.0194	0.0299	0.539
ISOBUTANE	0.283	9.0659	0.0027	0.0057	0.0907
N-BUTANE	0.587	18.8585	0.0057	0.0118	0.185
ISOPENTANE	0.229	9.0221	0.0022	0.0057	0.0838
N-PENTANE	0.237	9.3582	0.0023	0.0059	0.0859

TOTALS:	100.	665.88	0.987	0.807	2.088
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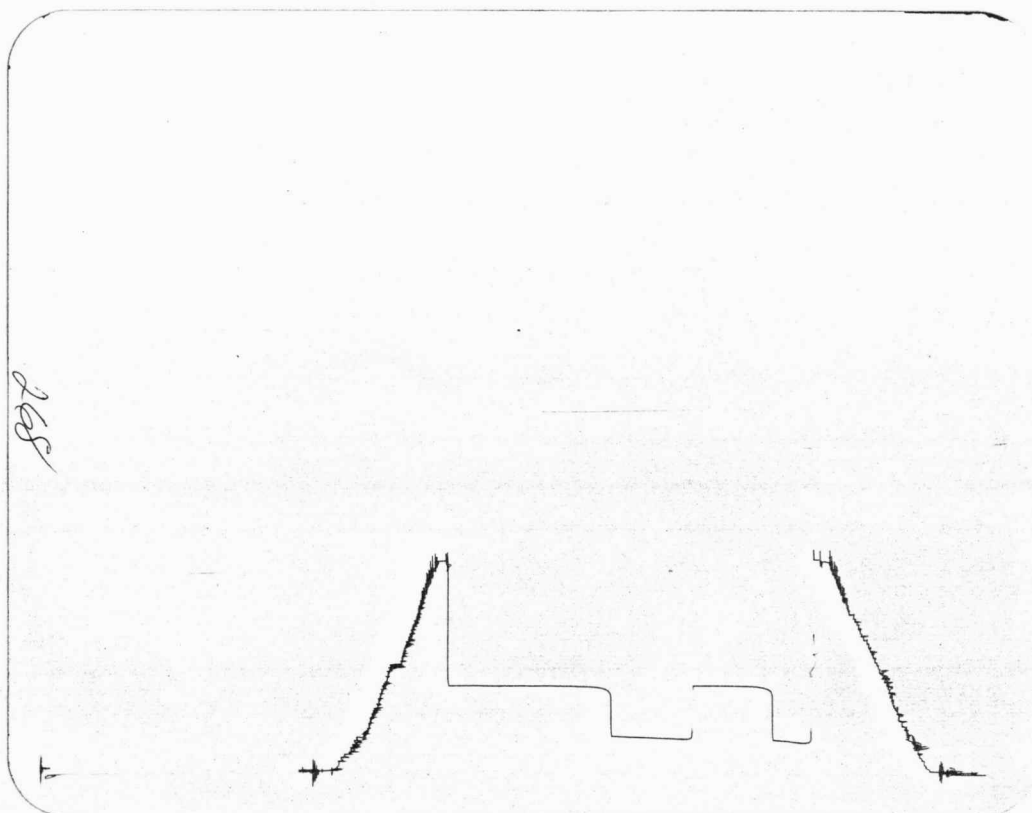
BTU/Cu. Ft.	(saturated, 60F, 14.65 psia):	670.69
BTU/Cu. Ft.	(dry, 60F, 14.65 psia):	682.56

Specific Gravity(sat(60F,14.65 psia)): 0.8103

[illegible]



Initial Hydrostatic	1787	psi
IFP	237	psi to 264
ISIP	735	psi
FFP	269	psi to 293
FSIP	735	psi
Final Hydrostatic	1781	psi



PHONE
316 / 624-7340

DEAN'S TESTERS INC.

P. O. BOX 1182
LIBERAL, Ks. 67901

Formation Morrow Type Test Conventional Date June 22, 1986
Anchor Length and Size 13' X 4 1/2" OD Total Depth 4746'
Packer Depths 4728' & 4733' Below Straddle _____ Choke Size Bottom 5/8" Surface 1"
Equipment Run 2 Packers, Jars, Sfty.jnt., Circ.sub., Sampler

Lengths: Tool 51' D. P. 4167' ID 3.8" Wt. P. _____ ID _____ D. C. 544' ID 2.25"
Mud Type Chemical Vls. 44 Wt. 9.1 Wtr. Loss 9.6 Cl. 700 ppm

Recorders: Depth 4721' Make Kuster Cap. 6500 Ser. No. 10269 Inside
Depth 4744' Make Kuster Cap. 6450 Ser. No. 10268 Outside
Depth _____ Make _____ Cap. _____ Ser. No. _____ Below Straddle

Pressures:

Tool on Bottom @ <u>12:55</u> P.M.	Initial Hydrostatic <u>2279</u> psi
Initial Flow <u>59</u> Min.	IFP <u>274</u> psi to <u>287</u> psi
Initial Shut-In <u>118</u> Min.	ISIP <u>1430</u> psi
Final Flow <u>117</u> Min.	FFP <u>370</u> psi to <u>300</u> psi
Final Shut-In <u>237</u> Min.	FSIP <u>1416</u> psi
Tool off Bottom @ <u>9:55</u> P.M.	Final Hydrostatic <u>2257</u> psi Temp. <u>132</u>

Blow: Strong thruout. Gas to surface in 3 min.

Recovery: 1020' Total fluid.
840' Gassy oil
60' Oil & gas cut muddy water
120' Oil cut salt water 54,000 PPM Cl.

Gas Flow: Max. of 1023 MCF/D decreasing to 411 MCF/D.

Sampler Data:

Pressure 300 PSI
Gas 1.01 cu. ft.
Total Fluid 600 cc
Oil 200 cc
Water 400 68,000 PPM Cl. cc
Mud _____ cc
Oil Gravity 35.5 @ 60 °F.
Gas / Oil Ratio _____

Remarks:

Rw. -.04 @ 132 F.

Tester R.L. Young Witnessed by: Don Henneberry

SEC. 20

TWP. 32S

RGE. 43W

COUNTY Morton

STATE Kans.

TICKET NO. 2988

HAWKINS OIL & GAS, INC.
OPERATOR

WELL NAME & NO.

TEST #

TEST INTERVAL

Ph. 316/624-7340

Mobile — 316/624-6247

Unit #935


 DEAN'S TESTERS

P.O. Box 1182

Liberal, Kansas 67901

Company Hawkins Oil & Gas, Inc.Well Scott #A-1Test # 2Interval 4733' - 4746'Method of Gauge Merla 2" Quick-Change Orifice Well Tester

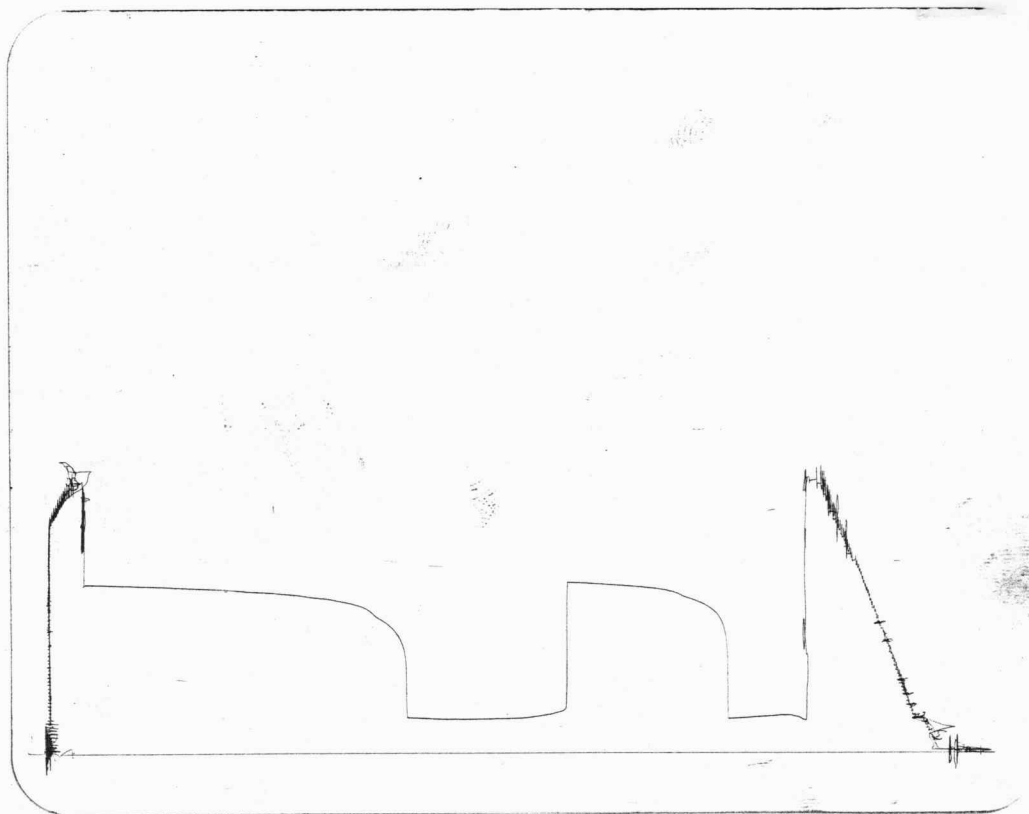
Time	Gauge	Orifice Size	Gas Volume MCF/D
Preflow			
10 min.	13 P.S.I.	1½"	937
20 "	15 "	"	1023
30 "	14 "	"	980
40 "	12 "	"	893
50 "	11 "	"	847
60 "	10 "	"	802
Final Flow			
10 min.	13 P.S.I.	1½"	937
20 "	11 "	"	847
30 "	9.5 "	"	777
40 "	7.5 "	"	677
50 "	7 "	"	653
60 "	6 "	"	599
70 "	5.5 "	"	571
80 "	4.5 "	"	511
90 "	4 "	"	480
100 "	4 "	"	480
110 "	3.5 "	"	445
120 "	3 "	"	411

Surface Choke 1"Bottom Choke 5/8"Remarks: Gas to surface in 3 min.

Test ticket no. 2988 Recorder no. 10269 Capacity 6500 Rec. Depth. 4721

	Time	Given 60	Computed 59
Initial Flow pressure <u>274</u> to <u>287</u>			
Initial Closed in pressure <u>1430</u>		120	118
Final Flow pressure <u>370</u> to <u>300</u>		120	117
Final Closed-in pressure <u>1416</u>		240	237
Initial Hydrostatic pressure <u>2279</u>	Final Hydrostatic press. <u>2257</u>		
	Temp <u>1</u>		

Initial Flow Press.		Initial Closed in Press.		Final Flow Press		Final Closed in Press.	
Minutes	Press	Minutes	Press	Minutes	Press	Minutes	Press
0	274	0	287	0	370	0	300
5	296	3	1035	5	348	3	901
10	309	6	1125	10	332	6	979
15	317	9	1173	15	320	9	1025
20	317	12	1202	20	311	12	1061
25	311	15	1225	25	303	15	1090
30	306	18	1244	30	295	18	1117
35	303	21	1262	35	290	21	1136
40	300	24	1276	40	290	24	1167
45	296	27	1287	45	287	27	1192
50	293	30	1297	50	287	30	1210
55	290	33	1310	55	287	33	1226
59 10x	287	36	1329	60	285	36	1236
65		39	1344	65	285	39	1246
70		42	1355	70	283	42	1255
75		45	1361	75	283	45	1262
80		48	1368	80	283	48	1270
85		51	1372	85	283	51	1276
90		54	1377	90	283	54	1283
95		57	1382	95	287	57	1287
100		60	1385	100	290	60	1292
105		63		105	293	63	
110		66	1392	110	296	66	1300
115		69		115	298	69	
120		72	1398	117 120x	300	72	1308
		75		125		75	
		78	1403	130		78	1318
		81		135		81	
		84	1408	140		84	1327
		87		145		87	
		90	1413	150		90	1332
		93		155		93	
		96	1418	160		96	1337
		99		165		99	
		102	1422	170		102	1342
		105		175		105	
		108	1426	180		108	1348
		111				111	
		114	1429			114	1352
		117				117	
		118 120x	1430			120	1356



Initial Hydrostatic _____ 2279 _____ psi
 IFP 274 _____ psi to 287 _____ psi
 ISIP _____ 1430 _____ psi
 FFP 370 _____ psi to 300 _____ psi
 FSIP _____ 1416 _____ psi
 Final Hydrostatic _____ 2257 _____ psi

