

Superior Testers Enterprises, Inc.

R.R. 3, Box 295B, Great Bend, Kansas 67530

(316) 792-6902

Date 5-21-1988 Location SW-SW-SW 20-27-12 Elevation 1855 KB County Pratt

Company Vantage Exploration Group Inc. Number of Copies 5

Charts Mailed to 434 North Market Suite 250, Wichita Kansas 67202

Drilling Contractor Abercrombie Drilling Rig #4

Length Drill Pipe 3383 I.D. Drill Pipe 3.80 Tool Joint Size 4 1/2" X.H.

Length Weight Pipe 381 I.D. Weight Pipe 2.75 Tool Joint Size 4 1/2" X.H.

Length Drill Collars NONE I.D. Drill Collars NONE Tool Joint Size NONE

Top Packer Depth 3778 Bottom Packer Depth 3783 Number of Packers 2 Packer Size 6 3/4

TESTED FROM 3783 TO 3798 ANCHOR LENGTH 15 TOTAL DEPTH 3798 Hole Size 7 7/8

LEASE & WELL NO. CASPARIA "A" #1 FORMATION TESTED Kansas City TEST NO. 1

Mud Weight 8.9 Viscosity 43 Water Loss 148 Chlorides - Pits 6,000 D.S.T. 52000

Maximum Temp. 121 °F Initial Hydrostatic Pressure (A) 1781 P.S.I. Final Hydrostatic Pressure (H) 1770 P.S.

Tool Open I.F.P. from 7:30 p.m. to 8:00 p.m. 30 min

Tool Closed I.C.I.P. from 8:00 p.m. to 8:45 p.m. 45 min

Tool Open F.F.P. from 8:45 p.m. to 9:45 p.m. 60 min

Tool Closed F.C.I.P. from 9:45 p.m. to 10:30 p.m. 45 min

Initial Blow Strong blow bottom of a 5 Gallon bucket in 50 sec.

Final Blow Strong blow bottom of a 5 Gallon bucket in 30 sec.

Total Feet Recovered 275 Gravity of Oil _____ Correc

210 Feet of Slightly mud cut Gassy Oil % Gas _____ % Oil _____ % Mud _____ % Wc

65 Feet of Slightly oil cut water % Gas _____ % Oil _____ % Mud _____ % Wc

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Wc

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Wc

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Wc

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Wc

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Wc

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Wc

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Wc

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Wc

Remarks _____

Extra Equipment - Jars NONE Safety Joint NONE Extra Packer NONE Straddle NONE Hook Wall NONE

Top Recorder No. 11087 Clock No. 47441 Depth 3792 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 11088 Clock No. 47442 Depth 3795 Insurance NONE

Price of Job \$400.00

Tool Operator Dane Budig

Approved By _____

Superior Testers Enterprises, Inc. shall not be liable for damage of any kind to property or personnel of the one for whom a test is made, or for any loss suffered, sustained, directly or indirectly, through the use of its equipment, or its statement opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

(316) 792-6902

GAS FLOW REPORT

Date 5-21-88 Ticket # 10201 Company Vantage Exploration Gro
Well Name and No CASPARIA "A" #1 DST No. 1 Interval Tested 3783-379
County Pratt State KANSAS Sec. 20 Twp. 27 Rg. 12

PRE FLOW

Gas to Surface in 35 min. into the 2nd flow

SECOND FLOW

[illegible]

GAS BOTTLE

Serial No. _____ Date Bottle Filled _____ Date to be Invoiced _____ Test Ticket # _____

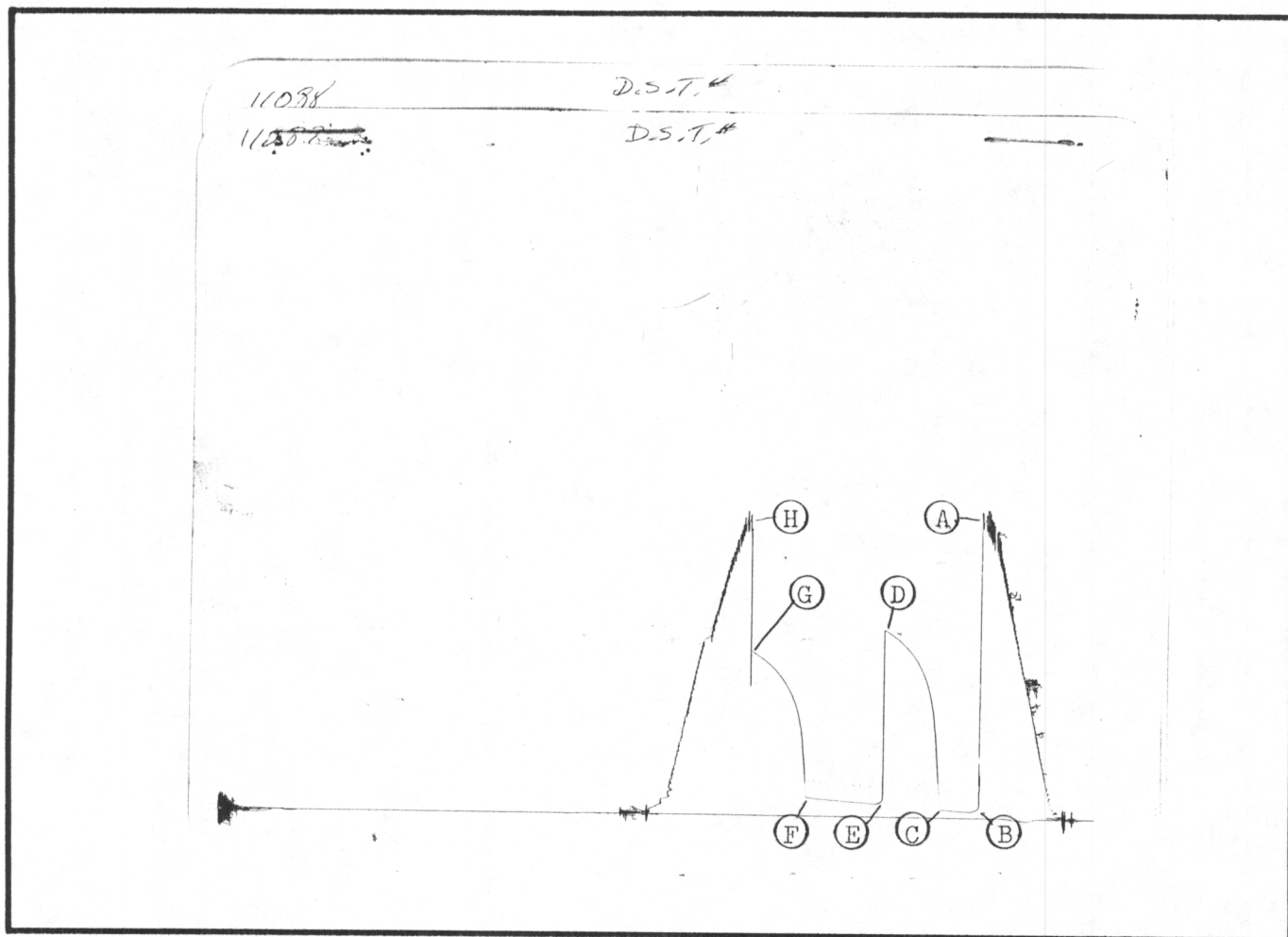
Serial No. _____ Date Bottle Filled _____ Date to be Invoiced _____

Requisition and Provisions for high pressure steel gas bottles. Superior Testers Enterprises, Inc. shall not be liable for damage to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself or agent for operator, to return this bottle to Superior Testers Enterprises, Inc. within thirty (30) days free of charge or be invoiced amount of \$125.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be in repairs at our invoiced price.

All charges subject to 1½ % per month, equal to 18% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME

Authorized by



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud	1781	1784	P.S.I.
(B) First Initial Flow Pressure	33	37	P.S.I.
(C) First Final Flow Pressure	44	44	P.S.I.
(D) Initial Closed-in Pressure	1122	1123	P.S.I.
(E) Second Initial Flow Pressure	77	82	P.S.I.
(F) Second Final Flow Pressure	110	110	P.S.I.
(G) Final Closed-in Pressure	980	988	P.S.I.
(H) Final Hydrostatic Mud	1770	1761	P.S.I.

SUPERIOR TESTERS ENTERPRISES INC.

WELL IDENTIFICATION DATA

COMPANY : VANTAGE EXPLORATION GROUP WELL NAME : CASPARIA "A" #1
ADDRESS : 343 N. MARKET, WICHITA LOCATION : SW-SW-SW 20-27-12
STATE & COUNTY : KANSAS, PRATT FIELD :
ELEV. (GR) : 1850 (KB) : 1855 TEST DATE : 5-21-1988

EQUIPMENT AND HOLE DATA

FORMATION TESTED : KANSAS CITY	DRILL PIPE LENGTH(ft) : 3383
TEST INT. KB : 3783 to 3798	DRILL PIPE O.D. (in) : 3.82
ANCHOR LENGTH(ft) : 15	WEIGHT PIPE LENGTH(ft) : 381
TYPE OF TEST : Conventional	WEIGHT PIPE ID : 2.75
TOTAL DEPTH(ft-kb) : 3798	DRILL COLLAR LENGTH(ft) :
MAIN HOLE SIZE(in) : 7 7/8	DRILL COLLAR I.D. (in) : 2.259
MUD WEIGHT : 8.9	TOP PACKER DEPTH(kb) : 3778
MUD VISCOSITY : 43	BOTTOM PACKER DEPTH(kb) : 3783
MUD CHLORIDES : 6000	DUAL PACKERS :
SURFACE CHOKE : 3/4	PACKER SIZE(in) : 6 3/4
BOTTOM CHOKE(in) : 3/4	PACKER HOLD : Yes
TOOL SIZE(O.D.) : 5 1/2	TOOL PLUG : No
TOOL JOINT SIZE(F.H.) : 4 1/2	REVERSED OUT : No
RESERVOIR TEMPERATURE(F) : 121	TEST TICKET NUMBER : 10201

EXTRA EQUIPMENT :

ELEMENT SERIAL NO. : 11087
RANGE : 0 - 4350 CLOCK RANGE : 12 HOURS
CAL. EQU. : 1094.24 * Defl. + 5.06

SURFACE BLOW

1st Opening : STRONG BLOW
2nd Opening : STRONG BLOW

RECOVERY

Recovered 210 feet of SLIGHTLY MUD CUT GASSY OIL
Recovered 65 feet of SLIGHTLY OIL CUT WATER

REMARKS :

WITNESSED BY : PHIL

TOOL OPERATOR : GENE BUDIG

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES INC.

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : VANTAGE EXPLORATION GROUP WELL NAME : CASPARIA "A" #1
 DATE OF TEST : 5-21-1988 LOCATION : SW-SW-SW 20-27-12
 DEPTH : 3792.0 SERIAL NO. : 11087

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			----- CALC	CORR	CORRECTED
TEST NO.:1					
Depth : 3792.0 ft-kb					
-1ST HYDROSTATIC	0.0	1.622	1779.91	4.70	1784.62
- 0:00	0.0	.034	42.27	-4.82	37.44
-7:30 1ST FLOW	0.0	.034	42.27	-4.82	37.44
- 7:35	5.0	.034	42.27	-4.82	37.44
- 7:40	10.0	.033	41.17	-4.83	36.34
- 7:45	15.0	.034	42.27	-4.82	37.44
- 7:50	20.0	.035	43.36	-4.81	38.55
- 7:55	25.0	.037	45.55	-4.80	40.75
- 8:00	30.0	.040	48.83	-4.78	44.05
-8:00 END FLOW	0.0	.040	48.83	-4.78	44.05
- 8:03	3.0	.289	321.30	-3.01	318.28
- 8:06	6.0	.549	605.80	-1.17	604.63
- 8:09	9.0	.665	732.73	-.35	732.38
- 8:12	12.0	.743	818.08	.20	818.28
- 8:15	15.0	.792	871.70	.55	872.25
- 8:18	18.0	.836	919.84	.86	920.70
- 8:21	21.0	.872	959.24	1.12	960.35
- 8:24	24.0	.899	988.78	1.31	990.09
- 8:27	27.0	.923	1015.04	1.44	1016.48
- 8:30	30.0	.943	1036.93	1.53	1038.46
- 8:33	33.0	.965	1061.00	1.64	1062.64
- 8:36	36.0	.979	1076.32	1.70	1078.02
- 8:39	39.0	.995	1093.83	1.78	1095.60
- 8:42	42.0	1.009	1109.15	1.84	1110.99
- 8:45	45.0	1.020	1121.18	1.89	1123.08
-8:45 1ST SHUT-IN	0.0	1.020	1121.18	1.89	1123.08
-8:45 2ND FLOW	0.0	.075	87.13	-4.53	82.60
- 8:50	5.0	.071	82.75	-4.56	78.19
- 8:55	10.0	.073	84.94	-4.54	80.40
- 9:00	15.0	.075	87.13	-4.53	82.60
- 9:05	20.0	.076	88.22	-4.52	83.70
- 9:10	25.0	.078	90.41	-4.51	85.90
- 9:15	30.0	.082	94.79	-4.48	90.31
- 9:20	35.0	.084	96.98	-4.47	92.51
- 9:25	40.0	.086	99.17	-4.45	94.71
- 9:30	45.0	.088	101.35	-4.44	96.92
- 9:35	50.0	.091	104.64	-4.42	100.22
- 9:40	55.0	.095	109.01	-4.39	104.63
- 9:45	60.0	.100	114.49	-4.35	110.13
- 8:45	0.0	.100	114.49	-4.35	110.13

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : VANTAGE EXPLORATION GROUP WELL NAME : CASPARIA "A" #1
 DATE OF TEST : 5-21-1988 LOCATION : SW-SW-SW 20-27-12
 DEPTH : 3792.0 SERIAL NO. : 11087

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			----- CALC	CORR	CORRECTED
TEST NO.: 1					
-9:45 END FLOW	0.0	.100	114.49	-4.35	110.13
- 9:48	3.0	.401	443.85	-2.22	441.63
- 9:51	6.0	.536	591.57	-1.26	590.31
- 9:54	9.0	.608	670.36	-.75	669.60
- 9:57	12.0	.661	728.35	-.38	727.97
- 10:00	15.0	.699	769.93	-.11	769.82
- 10:03	18.0	.733	807.14	.13	807.27
- 10:06	21.0	.763	839.96	.34	840.31
- 10:09	24.0	.789	868.41	.53	868.94
- 10:12	27.0	.809	890.30	.67	890.97
- 10:15	30.0	.827	910.00	.80	910.79
- 10:18	33.0	.846	930.79	.93	931.72
- 10:21	36.0	.861	947.20	1.04	948.24
- 10:24	39.0	.875	962.52	1.14	963.66
- 10:27	42.0	.890	978.93	1.24	980.18
- 10:29	44.0	.898	987.69	1.30	988.99
-10:29 2ND SHUT-IN	0.0	.898	987.69	1.30	988.99
-2ND HYDROSTATIC	0.0	1.601	1756.93	4.60	1761.54

SUPERIOR TESTERS ENTERPRISES INC.

DATA SUMMARY

PANY : VANTAGE EXPLORATION GROUP WELL NAME : CASPARIA "A" #1
 E OF TEST : 5-21-1988 LOCATION : SW-SW-SW 20-27-12

RECOVERY INFORMATION

LIQUID RECOVERY Total Fluid Recovered :

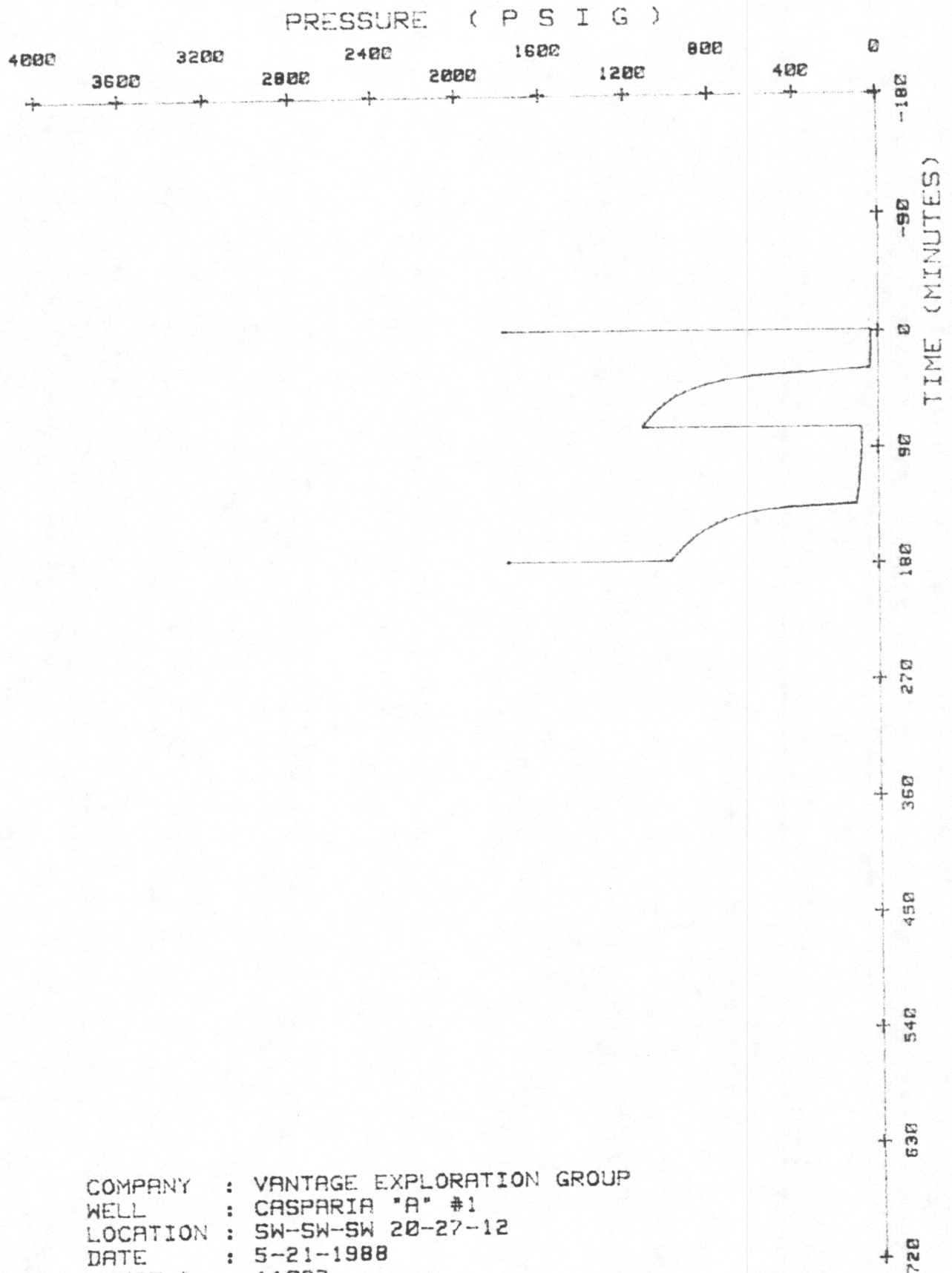
Recovered 210 feet of SLIGHTLY MUD CUT GASSY OIL
 Recovered 65 feet of SLIGHTLY OIL CUT WATER

AS RECOVERY Measured With : ORFICE TESTER Riser : 2 INCH
 (INCHES OF WATER)

Time (min.)	Reading	Surface Choke (in.)	Cubic feet/day
9:20	.05	.13	1180
9:25	.08	.13	1500
9:30	.08	.13	1500
9:35	.09	.13	1590
9:45	.09	.13	1590

FLUID PROPERTIES

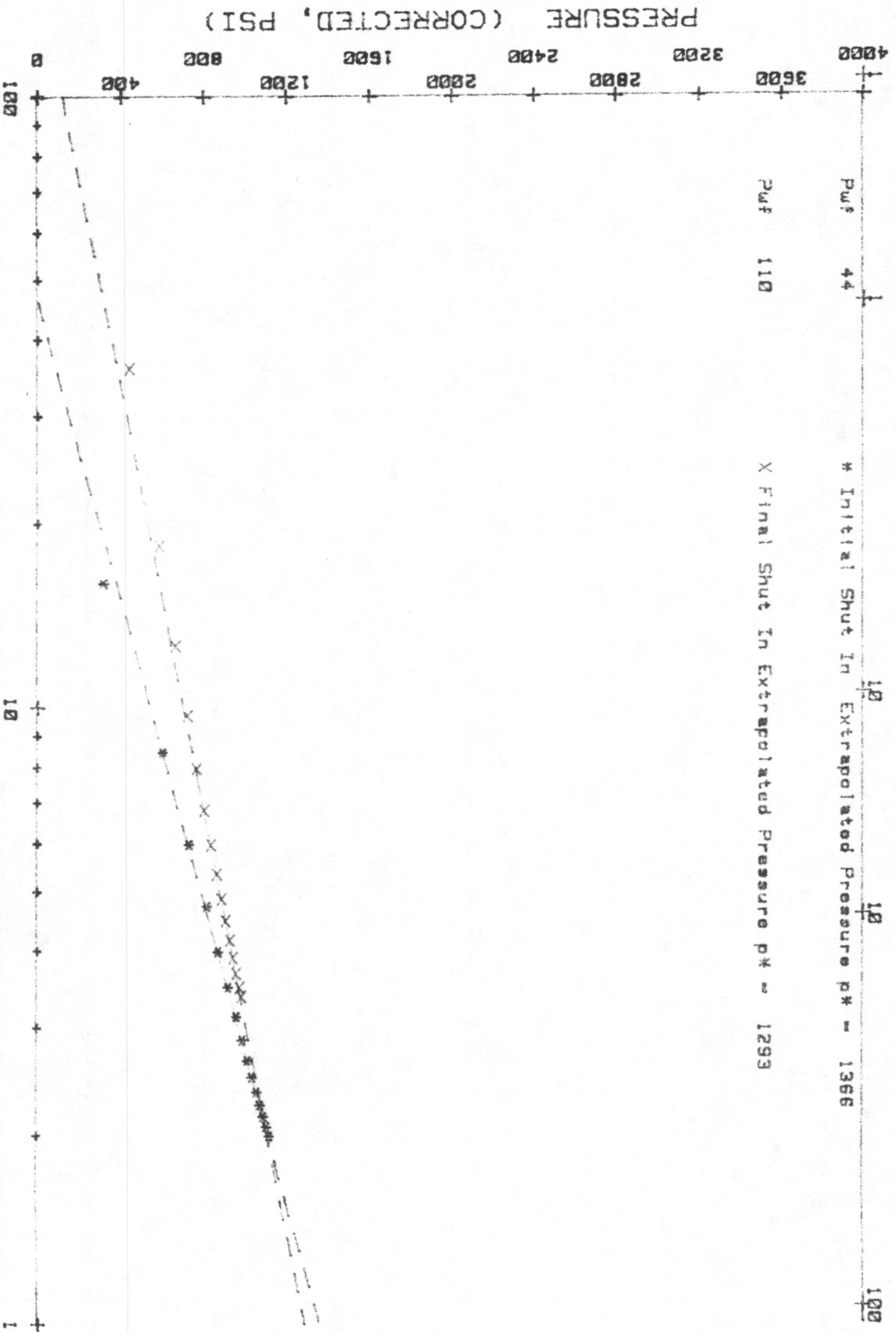
	Viscosity (cp)	Compressibility (psi-1)	Pore Space Saturation
Oil	.8	7.7E-6	.6
Gas	.2	9.2E-6	.2
Water	.45	3.1E-6	.2



LOCATION : SM-SM-SM 20-27-12

DATE : 5-21-1968

GAUGE # : 11087



SUPERIOR TESTERS ENTERPRISES INC.

DATA SUMMARY

COMPANY : VANTAGE EXPLORATION GROUP WELL NAME : CASPARIA "A" #1
DATE OF TEST : 5-21-1988 LOCATION : SW-SW-SW 20-27-12
DST. NO : 1 SHUT-IN PERIOD : 1

INTERPRETIVE DATA (OIL)

EXTRAPOLATED RESERVOIR PRESSURE (psi):	1366.00
Slope of Build-up Curve (psi/log cycle):	816.26
Effective Producing Time (min):	45.00

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

SUPERIOR TESTERS ENTERPRISES INC.

HORNER ANALYSIS

COMPANY : VANTAGE EXPLORATION GROUP
 WELL NAME : CASPARIA "A" #1
 LOCATION : SW-SW-SW 20-27-12
 STATE & COUNTY : KANSAS, PRATT
 DATE OF TEST : 5-21-1988
 TEST INT. KB : 3783 to 3798
 TOTAL INTERVAL (ft) K.B. : 15.00
 ELEV. (GR) : 1850 (KB) : 1855
 FIELD :

ELEMENT SERIAL NO. : 11087
 LATEST CALIBRATION :

COMMENTS	TIME min	(T+dt)/dt min	----- PRESSURES CORR PSIG -----
Refer. depth : 3792.0 ft-kb			
-8:00 END FLOW	0.00	0.00	44.05
	3.00	16.00	318.28
	6.00	8.50	604.63
	9.00	6.00	732.38
	12.00	4.75	818.28
	15.00	4.00	872.25
	18.00	3.50	920.70
	21.00	3.14	960.35
	24.00	2.88	990.09
	27.00	2.67	1016.52
	30.00	2.50	1038.55
	33.00	2.36	1062.78
	36.00	2.25	1078.19
	39.00	2.15	1095.81
	42.00	2.07	1111.23
	45.00	2.00	1123.35
-8:45 1ST SHUT-IN	0.00	0.00	1123.35

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

SUPERIOR TESTERS ENTERPRISES INC.

HORNER ANALYSIS

COMPANY : VANTAGE EXPLORATION GROUP
 WELL NAME : CASPARIA "A" #1
 LOCATION : SW-SW-SW 20-27-12
 STATE & COUNTY : KANSAS, PRATT
 DATE OF TEST : 5-21-1988
 TEST INT. KB : 3783 to 3798
 TOTAL INTERVAL (ft) K.B. : 15.00
 ELEV. (GR) : 1850 (KB) : 1855
 FIELD :

ELEMENT SERIAL NO. : 11087
 LATEST CALIBRATION :

COMMENTS	TIME min	(T+dt)/dt min	----- PRESSURES CORR PSIG	-----
Refer. depth : 3792.0 ft-kb				
-9:45 END FLOW	0.00	0.00	110.13	
	3.00	36.00	441.63	
	6.00	18.50	590.31	
	9.00	12.67	669.60	
	12.00	9.75	727.97	
	15.00	8.00	769.82	
	18.00	6.83	807.27	
	21.00	6.00	840.31	
	24.00	5.37	868.94	
	27.00	4.89	890.97	
	30.00	4.50	910.79	
	33.00	4.18	931.72	
	36.00	3.92	948.24	
	39.00	3.69	963.66	
	42.00	3.50	980.18	
	44.00	3.39	988.99	
-10:29 2ND SHUT-IN	0.00	0.00	988.99	

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

SUPERIOR TESTERS ENTERPRISES INC.

DATA SUMMARY

COMPANY : VANTAGE EXPLORATION GROUP WELL NAME : CASPARIA "A" #1
 DATE OF TEST : 5-21-1988 LOCATION : SW-SW-SW 20-27-12
 DST. NO : 1 SHUT-IN PERIOD : 2

INTERPRETIVE DATA (OIL)

TRANSMISSIBILITY

Oil (md.ft/cp):	4.
Gas (md.ft/cp):	0.

EFFECTIVE PERMEABILITY

Oil (md):	.
Gas (md):	0.

TOTAL MOBILITY (md/cp):	.
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TOTAL COMPRESSIBILITY (psi-1):	7.56E-06
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ESTIMATED DAMAGE RATIO:	.
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CALCULATED DAMAGE RATIO:	.
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Reservoir Temperature (F):	121.
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Formation Porosity :	.
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Formation Thickness (ft):	10.
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Wellbore Radius (in):	3.
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Reservoir Compressibility (psi-1):	4.80E-07
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Calculated Skin Factor :	-1.
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PRODUCTION WITH DAMAGE REMOVED (bbl/D):	16.
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PRODUCTIVITY INDEX (bbl/psi):	.
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Final Flow Pressure (psi):	110.
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APPROXIMATE RADIUS OF INVESTIGATION (ft):	30.
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Total Flowing Time (min):	105.
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EXTRAPOLATED RESERVOIR PRESSURE (psi):	1293.
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Slope of Build-up Curve (psi/log cycle):	582.
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Effective Producing Time (min):	105.
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Superior Testers Enterprises, Inc.

R.R. 3, Box 295B, Great Bend, Kansas 67530

(316) 792-6902

Date 5-22-1988 Location SW-SW-SW 20-27-12 Elevation 1855 RB County Pratt

Company Vantage Exploration Group Inc. Number of Copies 5

Charts Mailed to 434 North Market Suite 250, Wichita Kansas 67202

Drilling Contractor Abercrombie Drilling Rig #4

Length Drill Pipe 3595 I.D. Drill Pipe 3.80 Tool Joint Size 4 1/2" X 4"

Length Weight Pipe 381 I.D. Weight Pipe 2.75 Tool Joint Size 4 1/2" X 4"

Length Drill Collars NONE I.D. Drill Collars NONE Tool Joint Size NONE

Top Packer Depth 3990 Bottom Packer Depth 3995 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 3995 TO 4030 ANCHOR LENGTH 35 TOTAL DEPTH 4030 Hole Size 7 7/8"

LEASE & WELL NO. CASPARIA "A" #1 FORMATION TESTED KANSAS CITY TEST NO. 2

Mud Weight 9.9 Viscosity 42 Water Loss 10.4 Chlorides - Pits 8,000 D.S.T. _____

Maximum Temp. 116 °F Initial Hydrostatic Pressure (A) 1935 P.S.I. Final Hydrostatic Pressure (H) 1924 P.S.I.

Tool Open I.F.P. from 5:50 p.m. to 6:20 p.m. 30 min

Tool Closed I.C.I.P. from 6:20 p.m. to 6:50 p.m. 30 min

Tool Open F.F.P. from 6:50 p.m. to 7:20 p.m. 30 min

Tool Closed F.C.I.P. from 7:20 p.m. to 7:50 p.m. 30 min

Initial Blow WEAK blow through out

Final Blow WEAK intermittent through out

Total Feet Recovered 40 Gravity of Oil _____ Corrected _____

40 Feet of MUD % Gas _____ % Oil _____ % Mud _____ % Water _____

Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

Remarks _____

Extra Equipment - Jars NONE Safety Joint NONE Extra Packer NONE Straddle NONE Hook Wall NONE

Top Recorder No. 11087 Clock No. 47441 Depth 4024 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 11088 Clock No. 47442 Depth 4027 Insurance NONE

Price of Job \$400.00

Tool Operator Dave Rudy

Approved By _____

Superior Testers Enterprises, Inc. shall not be liable for damage of any kind to the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

No 10202

SUPERIOR TESTERS ENTERPRISES INC.

WELL IDENTIFICATION DATA

COMPANY : VANTAGE EXPLORATION GROUP WELL NAME : CASPARIA "A" #1
ADDRESS : 343 N. MARKET, WICHITA LOCATION : SW-SW-SW 20-27-12
STATE & COUNTY : KANSAS, PRATT FIELD :
ELEV. (GR) : 1850 (KB) : 1855 TEST DATE : 5-22-1988

EQUIPMENT AND HOLE DATA

FORMATION TESTED : KANSAS CITY	DRILL PIPE LENGTH(ft) : 3595
TEST INT. KB : 3995 to 4030	DRILL PIPE O.D.(in) : 3.82
ANCHOR LENGTH(ft) : 35	WEIGHT PIPE LENGTH(ft) : 381
TYPE OF TEST : Conventional	WEIGHT PIPE ID : 2.75
TOTAL DEPTH(ft-kb) : 4030	DRILL COLLAR LENGTH(ft) :
MAIN HOLE SIZE(in) : 7 7/8	DRILL COLLAR I.D.(in) : 2.259
MUD WEIGHT : 9.0	TOP PACKER DEPTH(kb) : 3990
MUD VISCOSITY : 42	BOTTOM PACKER DEPTH(kb) : 3995
MUD CHLORIDES : 8000	DUAL PACKERS :
SURFACE CHOKE : 3/4	PACKER SIZE(in) : 6 3/4
BOTTOM CHOKE(in) : 3/4	PACKER HOLD : Yes
TOOL SIZE(O.D.) : 5 1/2	TOOL PLUG : No
TOOL JOINT SIZE(F.H.) : 4 1/2	REVERSED OUT : No
RESERVOIR TEMPERATURE(F) : 116	TEST TICKET NUMBER : 10202

EXTRA EQUIPMENT :

ELEMENT SERIAL NO. : 11087
RANGE : 0 - 4350 CLOCK RANGE : 12 HOURS
CAL. EQU. : 1094.24 * Defl. + 5.06

SURFACE BLOW

1st Opening : WEAK BLOW THROUGH OUT
2nd Opening : WEAK INTERMITTANT THROUGH OUR

RECOVERY

Recovered 40 feet of MUD

REMARKS :

WITNESSED BY : PHIL ASKEY

TOOL OPERATOR : GENE BUDIG

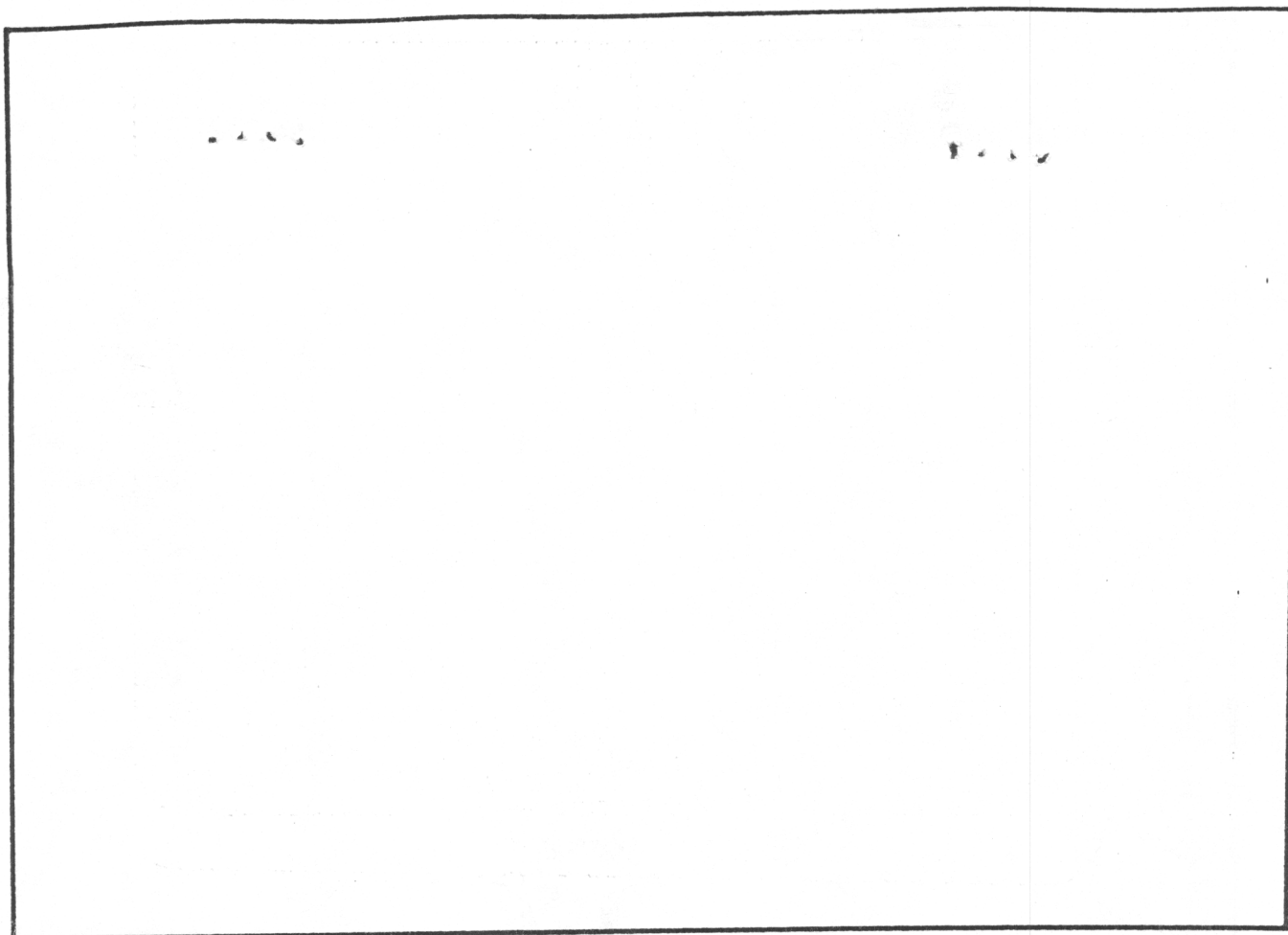
INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES INC.

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : VANTAGE EXPLORATION GROUP WELL NAME : CASPARIA "A" #1
 DATE OF TEST : 5-22-1988 LOCATION : SW-SW-SW 20-27-12
 DEPTH : 4024.0 SERIAL NO. : 11087

COMMENTS	TIME min	DEFL in	----- CALC	PRESSURE PSIG CORR	----- CORRECTED
TEST NO.:2					
Depth : 4024.0 ft-kb					
-1ST HYDROSTATIC	0.0	1.759	1929.82	5.34	1935.16
-5:50 1ST FLOW	0.0	.044	53.21	-4.75	48.46
- 5:55	5.0	.041	49.93	-4.77	45.15
- 6:00	10.0	.037	45.55	-4.80	40.75
- 6:05	15.0	.036	44.45	-4.81	39.65
- 6:10	20.0	.036	44.45	-4.81	39.65
- 6:15	25.0	.036	44.45	-4.81	39.65
- 6:20	30.0	.037	45.55	-4.80	40.75
-6:20 END FLOW	0.0	.037	45.55	-4.80	40.75
- 6:25	5.0	.039	47.74	-4.79	42.95
- 6:30	10.0	.043	52.11	-4.76	47.36
- 6:35	15.0	.044	53.21	-4.75	48.46
- 6:40	20.0	.047	56.49	-4.73	51.76
- 6:45	25.0	.051	60.87	-4.70	56.17
- 6:46	26.0	.051	60.87	-4.70	56.17
-6:46 1ST SHUT-IN	0.0	.051	60.87	-4.70	56.17
-6:46 2ND FLOW	0.0	.043	52.11	-4.76	47.36
- 6:51	5.0	.043	52.11	-4.76	47.36
- 6:56	10.0	.039	47.74	-4.79	42.95
- 7:01	15.0	.038	46.64	-4.79	41.85
- 7:06	20.0	.038	46.64	-4.79	41.85
- 7:11	25.0	.038	46.64	-4.79	41.85
- 7:16	30.0	.038	46.64	-4.79	41.85
-7:16 END FLOW	0.0	.038	46.64	-4.79	41.85
- 7:21	5.0	.038	46.64	-4.79	41.85
- 7:26	10.0	.039	47.74	-4.79	42.95
- 7:31	15.0	.040	48.83	-4.78	44.05
- 7:36	20.0	.041	49.93	-4.77	45.15
- 7:41	25.0	.042	51.02	-4.76	46.26
- 7:46	30.0	.044	53.21	-4.75	48.46
-7:46 2ND SHUT-IN	0.0	.044	53.21	-4.75	48.46
-2ND HYDROSTATIC	0.0	1.733	1901.37	5.22	1906.59



This is actual recorder chart.

POINT	PRESSURE		
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud	<u>1935</u>	<u>1935</u>	P.S.I.
(B) First Initial Flow Pressure	<u>33</u>	<u>48</u>	P.S.I.
(C) First Final Flow Pressure	<u>33</u>	<u>40</u>	P.S.I.
(D) Initial Closed-in Pressure	<u>66</u>	<u>56</u>	P.S.I.
(E) Second Initial Flow Pressure	<u>33</u>	<u>47</u>	P.S.I.
(F) Second Final Flow Pressure	<u>44</u>	<u>41</u>	P.S.I.
(G) Final Closed-in Pressure	<u>55</u>	<u>48</u>	P.S.I.
(H) Final Hydrostatic Mud	<u>1924</u>	<u>1906</u>	P.S.I.

Superior Testers Enterprises, Inc.

R.R. 3, Box 295B, Great Bend, Kansas 67530

(316) 792-6902

Date 5-23-88 Location SW-SW-SW 20-27-12 Elevation 1885 KB County Pratt

Company Vantage Exploration Group Inc. Number of Copies 5

Charts Mailed to 434 North Market Suite 250, Wichita Kansas 67202

Drilling Contractor Abercrombie Drilling Rig #4

Length Drill Pipe 3635 I.D. Drill Pipe 3.80 Tool Joint Size 4 1/2" X.H.

Length Weight Pipe 381 I.D. Weight Pipe 2.75 Tool Joint Size 4 1/2" X.H.

Length Drill Collars NONE I.D. Drill Collars NONE Tool Joint Size NONE

Top Packer Depth 4038 Bottom Packer Depth 4080 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 4040 TO 4130 ANCHOR LENGTH 90 TOTAL DEPTH 4130 Hole Size 7 7/8"

LEASE & WELL NO. CASPARIA "A" #1 FORMATION TESTED Kansas City & Wagon Mound TEST NO. 3

Mud Weight 9.9 Viscosity 42 Water Loss 10.4 Chlorides - Pits 8000 D.S.T.

Maximum Temp. 117 °F Initial Hydrostatic Pressure (A) 1990 P.S.I. Final Hydrostatic Pressure (H) 1979 P.S.I.

Tool Open I.F.P. from 7:45 A m to 8:15 A m 30 min

Tool Closed I.C.I.P. from 8:15 A m to 8:45 A m 30 min

Tool Open F.F.P. from 8:45 A m to 9:15 A m 30 min

Tool Closed F.C.I.P. from 9:15 A m to 9:45 m 30 min

Initial Blow WEAK blow for 12 min. & Died

Final Blow NO blow

Total Feet Recovered 20 Gravity of Oil Corrected

20 Feet of mud with a show of oil between the % Gas % Oil % Mud % Water

Feet of tools % Gas % Oil % Mud % Water

Feet of % Gas % Oil % Mud % Water

Feet of % Gas % Oil % Mud % Water

Feet of % Gas % Oil % Mud % Water

Feet of % Gas % Oil % Mud % Water

Feet of % Gas % Oil % Mud % Water

Feet of % Gas % Oil % Mud % Water

Feet of % Gas % Oil % Mud % Water

Feet of % Gas % Oil % Mud % Water

Remarks

Extra Equipment - Jars NONE Safety Joint NONE Extra Packer NONE Straddle NONE Hook Wall NONE

Top Recorder No. 11087 Clock No. 47441 Depth 4124 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 11088 Clock No. 47442 Depth 4127 Insurance NONE

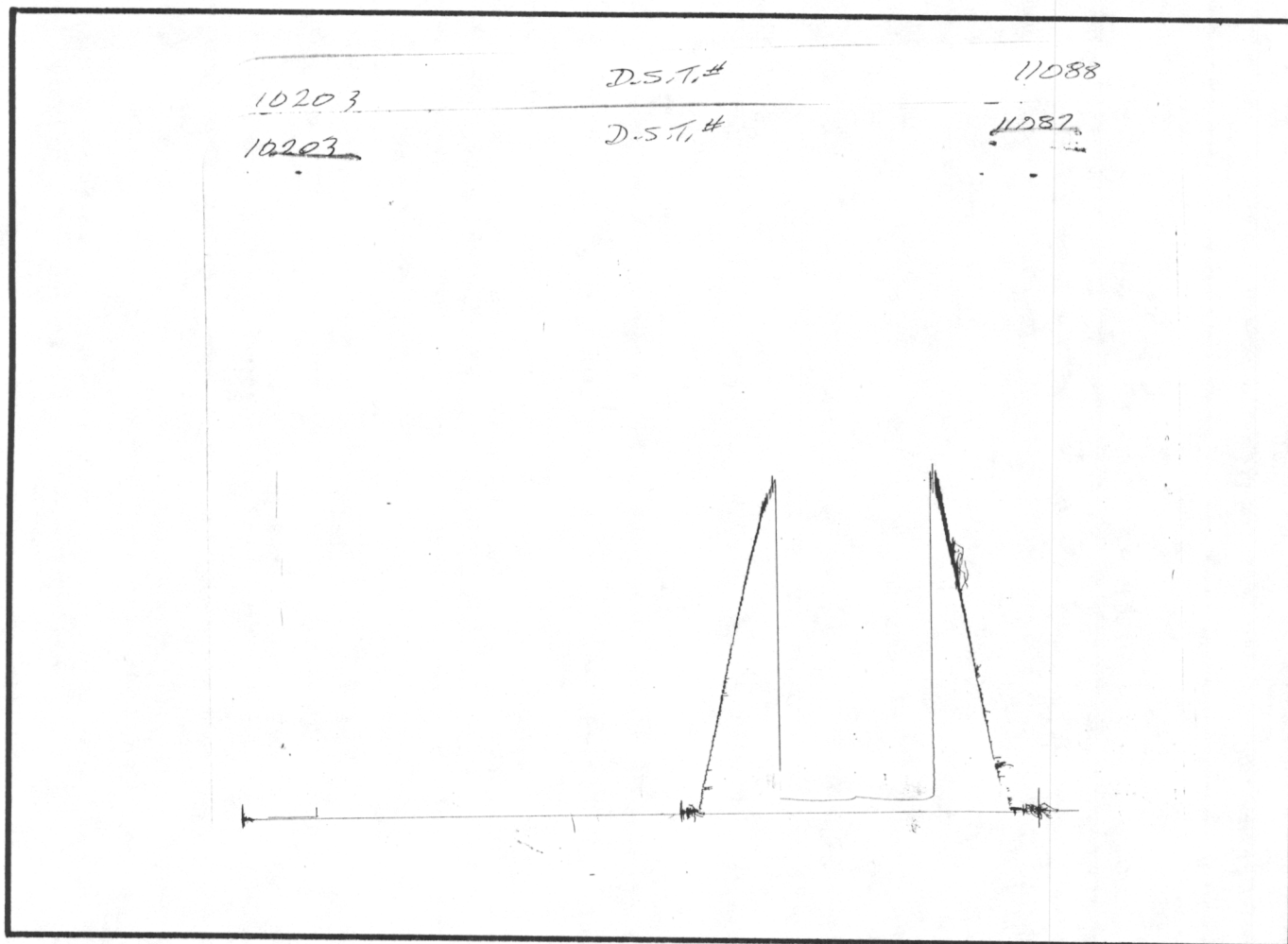
Price of Job \$400.00

Tool Operator Gene Suding

Approved By

Superior Testers Enterprises, Inc. shall not be liable for damage of any kind to the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

NO 10203



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud	1990	2014	P.S.I.
(B) First Initial Flow Pressure	77	79	P.S.I.
(C) First Final Flow Pressure	77	74	P.S.I.
(D) Initial Closed-in Pressure	99	93	P.S.I.
(E) Second Initial Flow Pressure	77	78	P.S.I.
(F) Second Final Flow Pressure	77	74	P.S.I.
(G) Final Closed-in Pressure	88	88	P.S.I.
(H) Final Hydrostatic Mud	1979	1980	P.S.I.

SUPERIOR TESTERS ENTERPRISES INC.

WELL IDENTIFICATION DATA

COMPANY : VANTAGE EXPLORATION GROUP WELL NAME : CASPARIA "A" #1
ADDRESS : 343 N. MARKET, WICHITA LOCATION : SW-SW-SW 20-27-12
STATE & COUNTY : KANSAS, PRATT FIELD :
ELEV. (GR) : 1850 (KB) : 1855 TEST DATE : 5-23-1988

EQUIPMENT AND HOLE DATA

FORMATION TESTED : KANSAS CITY-MARMADRILL PIPE LENGTH(ft) : 3635
TEST INT. KB : 4040 to 4130 DRILL PIPE O.D. (in) : 3.82
ANCHOR LENGTH(ft) : 90 WEIGHT PIPE LENGTH(ft) : 381
TYPE OF TEST : Conventional WEIGHT PIPE ID : 2.75
TOTAL DEPTH(ft-kb) : 4130 DRILL COLLAR LENGTH(ft) :
MAIN HOLE SIZE(in) : 7 7/8 DRILL COLLAR I.D. (in) : 2.259
MUD WEIGHT : 9.0 TOP PACKER DEPTH(kb) : 4035
MUD VISCOSITY : 42 BOTTOM PACKER DEPTH(kb) : 4040
MUD CHLORIDES : 8000 DUAL PACKERS :
SURFACE CHOKE : 3/4 PACKER SIZE(in) : 6 3/4
BOTTOM CHOKE(in) : 3/4 PACKER HOLD : Yes
TOOL SIZE(O.D.) : 5 1/2 TOOL PLUG : No
TOOL JOINT SIZE(F.H.) : 4 1/2 REVERSED OUT : No
RESERVOIR TEMPERATURE(F) : 117 TEST TICKET NUMBER : 10203

EXTRA EQUIPMENT :

ELEMENT SERIAL NO. : 11087
RANGE : 0 - 4350 CLOCK RANGE : 12 HOURS
CAL. EQU. : 1094.24 * Defl. + 5.06

SURFACE BLOW

1st Opening : WEAK BLOW FOR 12 MIN. AND DIED
2nd Opening : NO BLOW

RECOVERY

Recovered 20 feet of MUD WITH A SHOW OF OIL BETWEEN THE TOOLS

REMARKS :

WITNESSED BY : PHIL ASKEY

TOOL OPERATOR : GENE BUDIG

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES INC.

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : VANTAGE EXPLORATION GROUP WELL NAME : CASPARIA "A" #1
 DATE OF TEST : 5-23-1988 LOCATION : SW-SW-SW 20-27-12
 DEPTH : 4124.0 SERIAL NO. : 11087

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			----- CALC	CORR	CORRECTED
TEST NO.:3					
Depth : 4124.0 ft-kb					
-1ST HYDROSTATIC	0.0	1.831	2008.61	5.58	2014.19
-7:45 1ST FLOW	0.0	.072	83.85	-4.55	79.30
- 7:50	5.0	.072	83.85	-4.55	79.30
- 7:55	10.0	.069	80.56	-4.57	75.99
- 8:00	15.0	.068	79.47	-4.58	74.89
- 8:05	20.0	.068	79.47	-4.58	74.89
- 8:10	25.0	.068	79.47	-4.58	74.89
- 8:15	30.0	.068	79.47	-4.58	74.89
-8:15 END FLOW	0.0	.068	79.47	-4.58	74.89
- 8:20	5.0	.069	80.56	-4.57	75.99
- 8:25	10.0	.073	84.94	-4.54	80.40
- 8:30	15.0	.076	88.22	-4.52	83.70
- 8:35	20.0	.079	91.51	-4.50	87.00
- 8:40	25.0	.081	93.69	-4.49	89.21
- 8:45	30.0	.085	98.07	-4.46	93.61
-8:45 1ST SHUT-IN	0.0	.085	98.07	-4.46	93.61
-8:45 2ND FLOW	0.0	.071	82.75	-4.56	78.19
- 8:50	5.0	.071	82.75	-4.56	78.19
- 8:55	10.0	.071	82.75	-4.56	78.19
- 9:00	15.0	.069	80.56	-4.57	75.99
- 9:05	20.0	.069	80.56	-4.57	75.99
- 9:10	25.0	.068	79.47	-4.58	74.89
- 9:15	30.0	.068	79.47	-4.58	74.89
-9:15 END FLOW	0.0	.068	79.47	-4.58	74.89
- 9:20	5.0	.068	79.47	-4.58	74.89
- 9:25	10.0	.070	81.66	-4.57	77.09
- 9:30	15.0	.071	82.75	-4.56	78.19
- 9:35	20.0	.075	87.13	-4.53	82.60
- 9:40	25.0	.078	90.41	-4.51	85.90
- 9:44	29.0	.080	92.60	-4.49	88.11
- 9:15	0.0	0.000	5.06	-5.06	0.00
-9:44 2ND SHUT-IN	0.0	.080	92.60	-4.49	88.11
-2ND HYDROSTATIC	0.0	1.800	1974.69	5.53	1980.22

Superior Testers Enterprises, Inc.

R.R. 3, Box 295B, Great Bend, Kansas 67530

(316) 792-6902

Date 5-23-1988 Location Sul-Sul-Sul 20-27-12 Elevation 1855 K.B. County Pratt

Company Vantage Exploration Group Inc. Number of Copies 5

Charts Mailed to 434 North Market Suite 250 Wichita Kansas 67202

Drilling Contractor Rheer-Romble Drilling Rig #4

Length Drill Pipe 3770 I.D. Drill Pipe 3.85 Tool Joint Size 4 1/2" X.H.

Length Weight Pipe 381 I.D. Weight Pipe 2.75 Tool Joint Size 4 1/2" X.H.

Length Drill Collars NONE I.D. Drill Collars NONE Tool Joint Size 4 1/2" X.H.

Top Packer Depth 4165 Bottom Packer Depth 4170 Number of Packers 2 Packer Size 6 3/4

TESTED FROM 4170 TO 4265 ANCHOR LENGTH 95 TOTAL DEPTH 4265 Hole Size 7

LEASE & WELL NO. CASPARIA "A" #1 FORMATION TESTED Mississippi TEST NO. 1

Mud Weight 99 Viscosity 54 Water Loss 10 1/2 Chlorides - Pits 11,000 D.S.T. 28000

Maximum Temp. 129 °F Initial Hydrostatic Pressure (A) 2110 P.S.I. Final Hydrostatic Pressure (H) 2077

Tool Open I.F.P. from 11:00 A.m to 11:30 P.m 30 min

Tool Closed I.C.I.P. from 11:30 P.m to 12:00 A.m 90 min

Tool Open F.F.P. from 12:00 P.m to 2:00 A.m 60 min

Tool Closed F.C.I.P. from 2:00 A.m to 3:30 A.m 90 min

Initial Blow Strong blow - bottom of a 5 Gallon bucket in 30 sec.

Final Blow Strong blow

Total Feet Recovered 530 Gravity of Oil _____ Cc

170 Feet of mud _____ % Gas _____ % Oil _____ % Mud _____

60 Feet of water mud w/ slight trace of oil 120 15 % Gas _____ % Oil 60 % Mud 25 %

120 Feet of water mud w/ slight trace of oil 120 15 % Gas _____ % Oil 50 % Mud 35 %

120 Feet of Slightly oil cut muddy water 12 % Gas 3 % Oil 38 % Mud 47 %

60 Feet of Slightly oil cut muddy water 0 % Gas 3 % Oil 37 % Mud 60 %

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____

Remarks Gas to Surface in 4 min - MAX Gauged 223.5 mcf

Extra Equipment - Jars NONE Safety Joint NONE Extra Packer NONE Straddle NONE Hook Wall NONE

Top Recorder No. 11087 Clock No. 47441 Depth 4259 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 11088 Clock No. 47442 Depth 4262 Insurance NONE

Price of Job \$400.00

Tool Operator Norm Budig

Approved By _____

NO 10204

Superior Testers Enterprises, Inc. shall not be liable for damage of any kind property or personnel of the one for whom a test is made, or for any loss sustained, directly or indirectly, through the use of its equipment, or its state opinion concerning the results of any test. Tools lost or damaged in the hole paid for at cost by the party for whom the test is made.

Superior Testers Enterprises, Inc.

R.R. 3, Box 295B, Great Bend, Kansas 67530

(316) 792-6902

GAS FLOW REPORT

Date 5-23-1988 Ticket # 10204 Company Vantage Exploration Group Inc.
Well Name and No. CASPARIA "A" #1 DST No. 4 Interval Tested 4170-4265
County Pratt State KANSAS Sec. 20 Twp. 27 Rg. 12

Time Gauge Pre-Flow	Time Gauge in Min.	Inches of Water on Orifice Well Tester	Inches of Mercury on Orifice Well Tester	P.S.I. on Orifice Well Tester	P.S.I. on Pitot Tester	Choke Size	Gas Rate MCF
---------------------------	--------------------------	---	---	-------------------------------------	------------------------------	---------------	--------------

PRE FLOW

11:05	5	58				1"	197
11:15	15	25				1"	129
11:20	20	50				1"	183
11:25	25	33				1"	148.2
11:30	30	26				1"	132

Gas to Surface in 4 min on the first flow

SECOND FLOW

1:05	5	75				1"	223.5
1:15	15	30				1"	141
1:25	25	30				1"	141
1:35	35	15				1"	101
1:45	45	15				1"	101
1:50	55	15				1"	101
2:00	60	15				1"	101

GAS BOTTLE

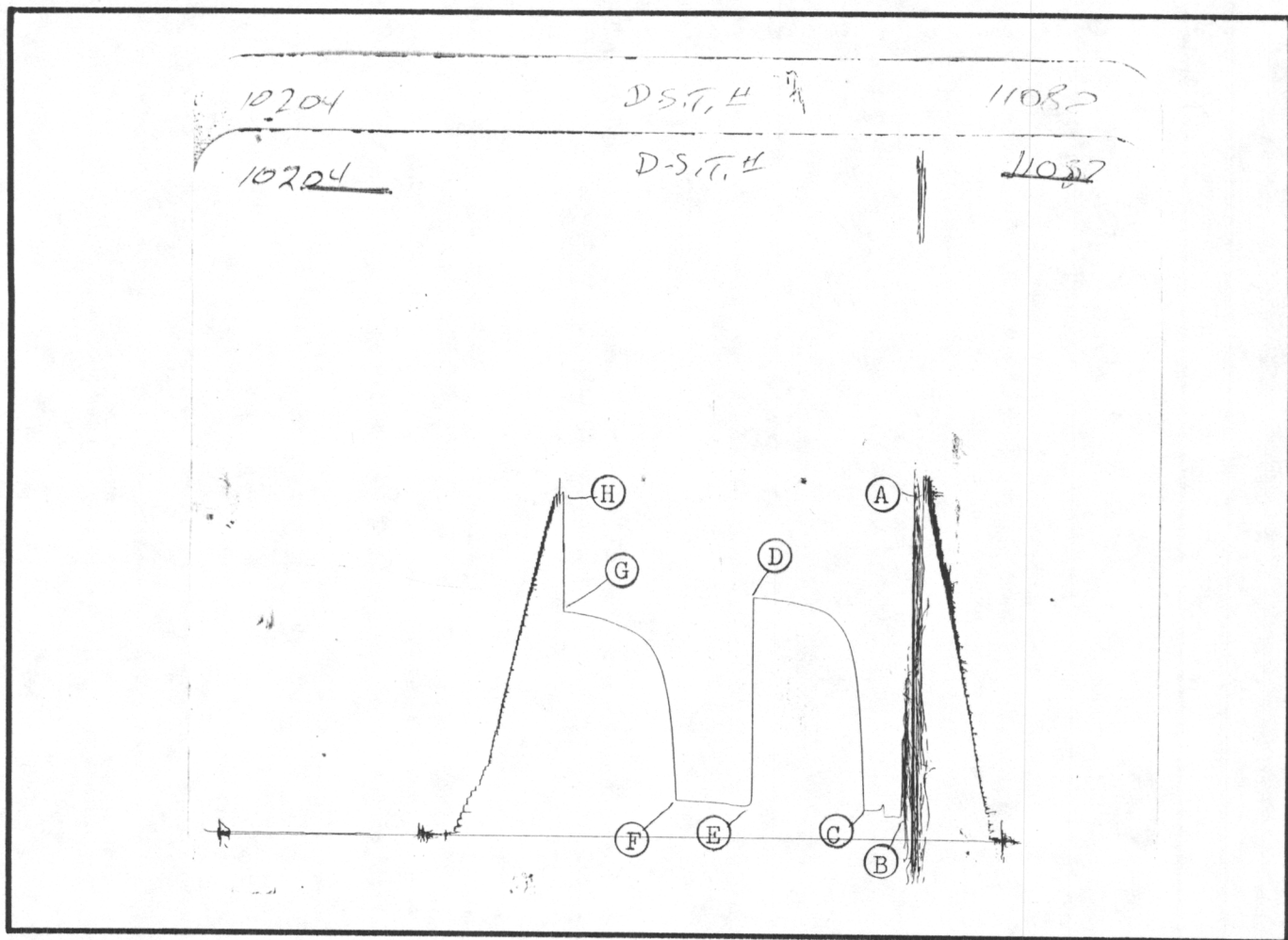
Serial No. _____ Date Bottle Filled _____ Date to be Invoiced _____ Test Ticket # _____

Requisition and Provisions for high pressure steel gas bottles. Superior Testers Enterprises, Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Superior Testers Enterprises, Inc. within thirty (30) days free of charge or be invoiced in the amount of \$125.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1½% per month, equal to 18% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME _____

Authorized by _____



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud	2110	2089	P.S.I.
(B) First Initial Flow Pressure	132	132	P.S.I.
(C) First Final Flow Pressure	176	175	P.S.I.
(D) Initial Closed-in Pressure	1463	1542	P.S.I.
(E) Second Initial Flow Pressure	187	192	P.S.I.
(F) Second Final Flow Pressure	221	223	P.S.I.
(G) Final Closed-in Pressure	1353	1354	P.S.I.
(H) Final Hydrostatic Mud	2077	2084	P.S.I.

SUPERIOR TESTERS ENTERPRISES INC.

WELL IDENTIFICATION DATA

COMPANY : VANTAGE EXPLORATION GROUP WELL NAME : CASPARIA "A" #1
ADDRESS : 343 N. MARKET, WICHITA LOCATION : SW-SW-SW 20-27-12
STATE & COUNTY : KANSAS, PRATT FIELD :
ELEV. (GR) : 1850 (KB) : 1855 TEST DATE : 5-23-1988

EQUIPMENT AND HOLE DATA

FORMATION TESTED : MISSISSIPPI	DRILL PIPE LENGTH(ft) : 3770
TEST INT. KB : 4170 to 4265	DRILL PIPE O.D. (in) : 3.82
ANCHOR LENGTH(ft) : 95	WEIGHT PIPE LENGTH(ft) : 381
TYPE OF TEST : Conventional	WEIGHT PIPE ID : 2.75
TOTAL DEPTH(ft-kb) : 4265	DRILL COLLAR LENGTH(ft) :
MAIN HOLE SIZE(in) : 7 7/8	DRILL COLLAR I.D. (in) : 2.259
MUD WEIGHT : 9.0	TOP PACKER DEPTH(kb) : 4165
MUD VISCOSITY : 54	BOTTOM PACKER DEPTH(kb) : 4170
MUD CHLORIDES : 11000	DUAL PACKERS :
SURFACE CHOKE : 3/4	PACKER SIZE(in) : 6 3/4
BOTTOM CHOKE(in) : 3/4	PACKER HOLD : Yes
TOOL SIZE(O.D.) : 5 1/2	TOOL PLUG : No
TOOL JOINT SIZE(F.H.) : 4 1/2	REVERSED OUT : No
RESERVOIR TEMPERATURE(F) : 129	TEST TICKET NUMBER : 10204

EXTRA EQUIPMENT :

ELEMENT SERIAL NO. : 11087
RANGE : 0 - 4350 CLOCK RANGE : 12 HOURS
CAL. EQU. : 1094.24 * Defl. + 5.06

SURFACE BLOW

1st Opening : STRONG BLOW
2nd Opening : STRONG BLOW

RECOVERY

Recovered 170 feet of MUD
Recovered 180 feet of MUDDY WATER WITH A SLIGHT TRACE OF OIL
Recovered 180 feet of SLIGHTLY OIL CUT MUDDY WATER

REMARKS :

GAS TO SURFACE IN 4 MIN. MAX GAUGED 223.5 mcf

WITNESSED BY : PHIL ASKEY

TOOL OPERATOR : GENE BUDIG

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES INC.

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : VANTAGE EXPLORATION GROUP WELL NAME : CASPARIA "A" #1
 DATE OF TEST : 5-23-1988 LOCATION : SW-SW-SW 20-27-12
 DEPTH : 4259.0 SERIAL NO. : 11087

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			----- CALC	CORR	CORRECTED
TEST NO.: 4					
Depth : 4259.0 ft-kb					
-1ST HYDROSTATIC	0.0	1.900	2084.11	5.41	2089.52
--11:00 1ST FLOW	0.0	.120	136.37	-4.21	132.16
- 11:05	5.0	.124	140.75	-4.18	136.56
- 11:10	10.0	.123	139.65	-4.19	135.46
- 11:13	13.0	.123	139.65	-4.19	135.46
- 11:14	14.0	.192	215.15	-3.70	211.45
- 11:15	15.0	.173	194.36	-3.84	190.53
- 11:17	17.0	.163	183.42	-3.91	179.52
- 11:21	21.0	.159	179.05	-3.93	175.11
- 11:26	26.0	.157	176.86	-3.95	172.91
- 11:29	29.0	.159	179.05	-3.93	175.11
-11:29 END FLOW	0.0	.159	179.05	-3.93	175.11
- 11:32	3.0	.580	639.72	-.95	638.77
- 11:35	6.0	.844	928.60	.92	929.52
- 11:38	9.0	.971	1067.57	1.67	1069.23
- 11:41	12.0	1.057	1161.67	2.07	1163.74
- 11:44	15.0	1.111	1220.76	2.32	1223.08
- 11:47	18.0	1.149	1262.34	2.50	1264.84
- 11:50	21.0	1.178	1294.07	2.63	1296.70
- 11:53	24.0	1.201	1319.24	2.74	1321.98
- 11:56	27.0	1.223	1343.31	2.84	1346.15
- 11:59	30.0	1.238	1359.73	2.91	1362.64
- 12:02	33.0	1.249	1371.76	2.96	1374.73
- 12:05	36.0	1.258	1381.61	3.00	1384.62
- 12:08	39.0	1.265	1389.27	3.04	1392.31
- 12:11	42.0	1.271	1395.84	3.06	1398.90
- 12:14	45.0	1.276	1401.31	3.09	1404.40
- 12:17	48.0	1.281	1406.78	3.11	1409.89
- 12:20	51.0	1.285	1411.16	3.13	1414.29
- 12:23	54.0	1.292	1418.82	3.16	1421.98
- 12:26	57.0	1.296	1423.19	3.18	1426.37
- 12:29	60.0	1.301	1428.66	3.20	1431.87
- 12:32	63.0	1.302	1429.76	3.21	1432.97
- 12:35	66.0	1.305	1433.04	3.22	1436.26
- 12:38	69.0	1.308	1436.32	3.24	1439.56
- 12:41	72.0	1.312	1440.70	3.26	1443.96
- 12:44	75.0	1.314	1442.89	3.27	1446.15
- 12:47	78.0	1.316	1445.08	3.27	1448.35
- 12:50	81.0	1.317	1446.17	3.28	1449.45
- 12:53	84.0	1.318	1447.27	3.28	1450.55

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : VANTAGE EXPLORATION GROUP WELL NAME : CASPARIA "A" #1
 DATE OF TEST : 5-23-1988 LOCATION : SW-SW-SW 20-27-12
 DEPTH : 4259.0 SERIAL NO. : 11087

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			----- CALC	CORR	CORRECTED
TEST NO.: 4					
- 12:56	87.0	1.320	1449.45	3.29	1452.75
- 12:57	88.0	1.320	1449.45	3.29	1452.75
-12:57 1ST SHUT-IN	0.0	1.320	1449.45	3.29	1452.75
-12:57 2ND FLOW	0.0	.175	196.55	-3.82	192.73
- 13:02	5.0	.175	196.55	-3.82	192.73
- 13:07	10.0	.176	197.65	-3.81	193.83
- 13:12	15.0	.179	200.93	-3.79	197.14
- 13:17	20.0	.185	207.50	-3.75	203.74
- 13:22	25.0	.189	211.87	-3.72	208.15
- 13:27	30.0	.192	215.15	-3.70	211.45
- 13:32	35.0	.194	217.34	-3.69	213.66
- 13:37	40.0	.196	219.53	-3.67	215.86
- 13:42	45.0	.197	220.63	-3.67	216.96
- 13:47	50.0	.199	222.81	-3.65	219.16
- 13:52	55.0	.200	223.91	-3.64	220.26
- 13:56	59.0	.203	227.19	-3.62	223.57
-1:56 END FLOW	0.0	.203	227.19	-3.62	223.57
- 1:59	3.0	.523	577.35	-1.36	575.99
- 2:02	6.0	.718	790.72	.03	790.75
- 2:05	9.0	.831	914.37	.83	915.20
- 2:08	12.0	.912	1003.01	1.39	1004.40
- 2:11	15.0	.963	1058.81	1.63	1060.44
- 2:14	18.0	1.005	1104.77	1.82	1106.59
- 2:17	21.0	1.042	1145.26	2.00	1147.25
- 2:20	24.0	1.066	1171.52	2.11	1173.63
- 2:23	27.0	1.088	1195.59	2.21	1197.80
- 2:26	30.0	1.105	1214.19	2.29	1216.48
- 2:29	33.0	1.118	1228.42	2.35	1230.77
- 2:32	36.0	1.130	1241.55	2.41	1243.96
- 2:35	39.0	1.138	1250.30	2.44	1252.75
- 2:38	42.0	1.147	1260.15	2.49	1262.64
- 2:41	45.0	1.155	1268.90	2.52	1271.43
- 2:44	48.0	1.165	1279.85	2.57	1282.42
- 2:47	51.0	1.172	1287.51	2.60	1290.11
- 2:50	54.0	1.180	1296.26	2.64	1298.90
- 2:53	57.0	1.189	1306.11	2.68	1308.79
- 2:56	60.0	1.195	1312.67	2.71	1315.38
- 2:59	63.0	1.199	1317.05	2.73	1319.78
- 3:02	66.0	1.205	1323.62	2.76	1326.37
- 3:05	69.0	1.210	1329.09	2.78	1331.87

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : VANTAGE EXPLORATION GROUP WELL NAME : CASPARIA "A" #1
 DATE OF TEST : 5-23-1988 LOCATION : SW-SW-SW 20-27-12
 DEPTH : 4259.0 SERIAL NO. : 11087

COMMENTS	TIME min	DEFL in	----- CALC	----- PRESSURE PSIG CORR CORRECTED
TEST NO.: 4				
- 3:08	72.0	1.213	1332.37	2.79 1335.16
- 3:11	75.0	1.217	1336.75	2.81 1339.56
- 3:14	78.0	1.221	1341.12	2.83 1343.96
- 3:17	81.0	1.225	1345.50	2.85 1348.35
- 3:20	84.0	1.226	1346.60	2.85 1349.45
- 3:23	87.0	1.228	1348.78	2.86 1351.65
- 3:25	89.0	1.231	1352.07	2.88 1354.95
-3:25 2ND SHUT-IN	0.0	1.231	1352.07	2.88 1354.95
- 3:25	0.0	1.895	2078.64	5.42 2084.06
- 3:25	0.0	1.895	2078.64	5.42 2084.06
-2ND HYDROSTATIC	0.0	1.895	2078.64	5.42 2084.06

CALCULATED RECOVERY ANALYSIS

DST Number: 4

Test ticket number: 10204

Sample #	Total Feet	***** Gas ***** %	***** Gas ***** Feet	***** Oil ***** %	***** Oil ***** Feet	***** Mud ***** %	***** Mud ***** Feet
1	170	5.00	8.50	0.00	0.00	80.00	136.00
2	60	15.00	9.00	0.00	0.00	60.00	36.00
3	120	15.00	18.00	0.00	0.00	50.00	60.00
4	120	12.00	14.40	3.00	3.60	38.00	45.60
5	60	0.00	0.00	3.00	1.80	37.00	22.20
TOTAL	530	9.42	49.90	1.02	5.40	56.57	299.80

Sample #	Total Feet	***** WATER ***** %	***** WATER ***** Feet	Chlorides (ppm)	Resistivity (ohms)	Temperature (deg)
1	170	15.00	25.50	0.00	0.00	0.00
2	60	25.00	15.00	0.00	0.00	0.00
3	120	35.00	42.00	0.00	0.00	0.00
4	120	47.00	56.40	28000.00	0.00	0.00
5	60	60.00	36.00	28000.00	0.00	0.00
TOTAL	530	33.00	174.90			

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

SUPERIOR TESTERS ENTERPRISES INC.

DATA SUMMARY

COMPANY : VANTAGE EXPLORATION GROUP WELL NAME : CASPARIA "A" #1
 DATE OF TEST : 5-23-1988 LOCATION : SW-SW-SW 20-27-12

RECOVERY INFORMATION

LIQUID RECOVERY

Total Fluid Recovered :

Recovered 170 feet of MUD
 Recovered 180 feet of MUDDY WATER WITH A SLIGHT TRACE OF OIL
 Recovered 180 feet of SLIGHTLY OIL CUT MUDDY WATER

GAS RECOVERY

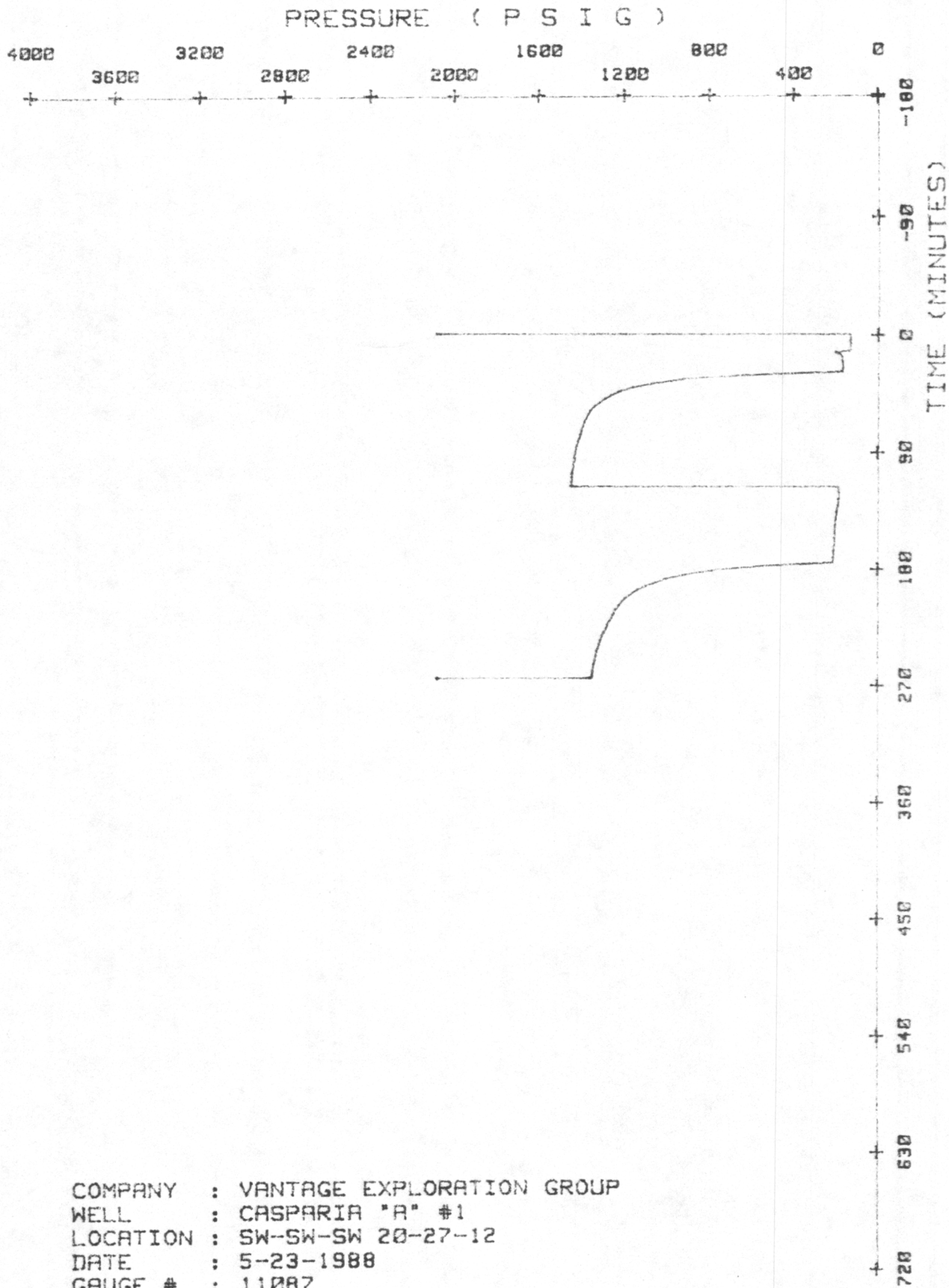
Measured With : ORFICE TESTER
 (INCHES OF WATER)

Riser : 2 INCH

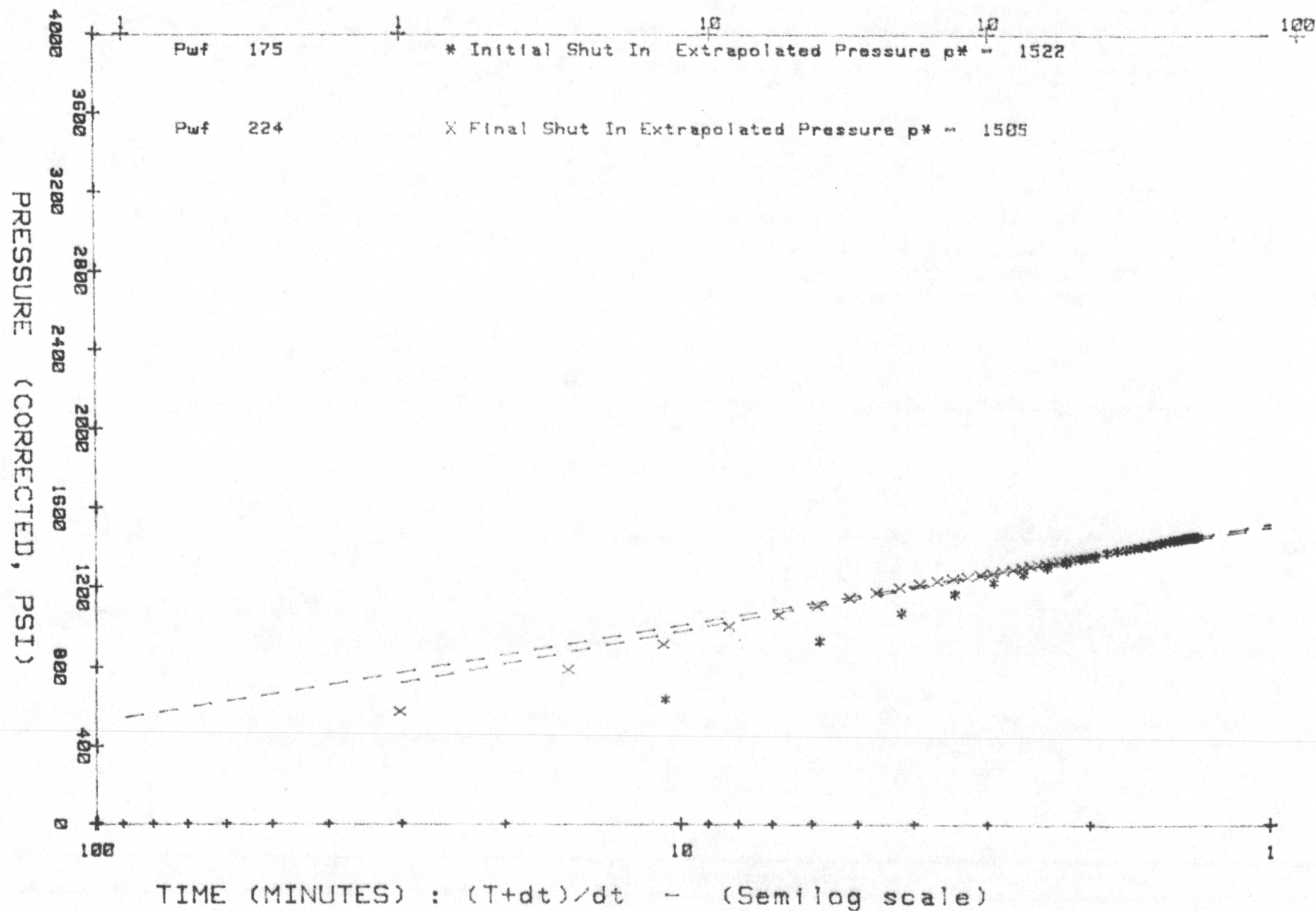
Time (min.)	Reading	Surface Choke (in.)	Cubic feet/day
11:05	58.00	1.00	197000
11:15	25.00	1.00	129000
11:20	50.00	1.00	183000
11:25	33.00	1.00	148200
11:30	26.00	1.00	132000
1:05	75.00	1.00	223500
1:15	30.00	1.00	141000
1:25	30.00	1.00	141000
1:35	15.00	1.00	101000
1:45	15.00	1.00	101000
1:55	15.00	1.00	101000
2:00	15.00	1.00	101000

FLUID PROPERTIES

	Viscosity (cp)	Compressibility (psi ⁻¹)	Pore Space Saturation
Oil	.8	7.7E-6	.10
Gas	.2	9.2E-6	.75
Water	.45	3.1E-6	.15



GAUGE # : 11087



SUPERIOR TESTERS ENTERPRISES INC.

DATA SUMMARY

COMPANY : VANTAGE EXPLORATION GROUP WELL NAME : CASPARIA "A" #1
DATE OF TEST : 5-23-1988 LOCATION : SW-SW-SW 20-27-12
DST. NO : 4 SHUT-IN PERIOD : 1

INTERPRETIVE DATA (OIL)

EXTRAPOLATED RESERVOIR PRESSURE (psi):	1522.00
Slope of Build-up Curve (psi/log cycle):	538.10
Effective Producing Time (min):	29.00

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

SUPERIOR TESTERS ENTERPRISES INC.

HORNER ANALYSIS

COMPANY : VANTAGE EXPLORATION GROUP
 WELL NAME : CASPARIA "A" #1
 LOCATION : SW-SW-SW 20-27-12
 STATE & COUNTY : KANSAS, PRATT
 DATE OF TEST : 5-23-1988
 TEST INT. KB : 4170 to 4265
 TOTAL INTERVAL (ft) K.B. : 95.00
 ELEV. (GR) : 1850 (KB) : 1855
 FIELD :

ELEMENT SERIAL NO. : 11087
 LATEST CALIBRATION :

COMMENTS	TIME min	(T+dt)/dt min	----- PRESSURES ----- CORR PSIG
Refer. depth : 4259.0 ft-kb			
-11:29 END FLOW	0.00	0.00	175.11
	3.00	10.67	638.77
	6.00	5.83	929.52
	9.00	4.22	1069.38
	12.00	3.42	1164.10
	15.00	2.93	1223.57
	18.00	2.61	1265.42
	21.00	2.38	1297.36
	24.00	2.21	1322.69
	27.00	2.07	1346.92
	30.00	1.97	1363.44
	33.00	1.88	1375.55
	36.00	1.81	1385.46
	39.00	1.74	1393.17
	42.00	1.69	1399.78
	45.00	1.64	1405.29
	48.00	1.60	1410.79
	51.00	1.57	1415.20
	54.00	1.54	1422.91
	57.00	1.51	1427.31
	60.00	1.48	1432.82
	63.00	1.46	1433.92
	66.00	1.44	1437.22
	69.00	1.42	1440.53
	72.00	1.40	1444.93
	75.00	1.39	1447.14
	78.00	1.37	1449.34
	81.00	1.36	1450.44
	84.00	1.35	1451.54
	87.00	1.33	1453.74

SUPERIOR TESTERS ENTERPRISES INC.

HORNER ANALYSIS

COMPANY : VANTAGE EXPLORATION GROUP
 WELL NAME : CASPARIA "A" #1
 LOCATION : SW-SW-SW 20-27-12
 STATE & COUNTY : KANSAS, PRATT
 DATE OF TEST : 5-23-1988
 TEST INT. KB : 4170 to 4265
 TOTAL INTERVAL (ft) K.B. : 95.00
 ELEV. (GR) : 1850 (KB) : 1855
 FIELD :

ELEMENT SERIAL NO. : 11087
 LATEST CALIBRATION :

COMMENTS	TIME min	(T+dt)/dt min	----- PRESSURES CORR PSIG -----
Refer. depth :	4259.0 ft-kb		
-1:56 END FLOW	0.00	0.00	223.57
	3.00	30.33	575.99
	6.00	15.67	790.75
	9.00	10.78	915.20
	12.00	8.33	1004.41
	15.00	6.87	1060.57
	18.00	5.89	1106.83
	21.00	5.19	1147.58
	24.00	4.67	1174.01
	27.00	4.26	1198.24
	30.00	3.93	1216.96
	33.00	3.67	1231.28
	36.00	3.44	1244.49
	39.00	3.26	1253.30
	42.00	3.10	1263.22
	45.00	2.96	1272.03
	48.00	2.83	1283.04
	51.00	2.73	1290.75
	54.00	2.63	1299.56
	57.00	2.54	1309.47
	60.00	2.47	1316.08
	63.00	2.40	1320.48
	66.00	2.33	1327.09
	69.00	2.28	1332.60
	72.00	2.22	1335.90
	75.00	2.17	1340.31
	78.00	2.13	1344.71
	81.00	2.09	1349.12
	84.00	2.05	1350.22
	87.00	2.01	1352.42

SUPERIOR TESTERS ENTERPRISES INC.

DATA SUMMARY

COMPANY : VANTAGE EXPLORATION GROUP WELL NAME : CASPARIA "A" #1
 DATE OF TEST : 5-23-1988 LOCATION : SW-SW-SW 20-27-12
 DST. NO : 4 SHUT-IN PERIOD : 2

INTERPRETIVE DATA (OIL)

TRANSMISSIBILITY

Oil (md.ft/cp):	.21
Gas (md.ft/cp):	0.00

EFFECTIVE PERMEABILITY

Oil (md):	.02
Gas (md):	0.00

TOTAL MOBILITY (md/cp):	.61
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TOTAL COMPRESSIBILITY (psi ⁻¹):	8.61E-06
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ESTIMATED DAMAGE RATIO:	.57
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CALCULATED DAMAGE RATIO:	.70
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Reservoir Temperature (F):	129.00
Formation Porosity :	.18
Formation Thickness (ft):	10.00
Wellbore Radius (in):	3.04
Reservoir Compressibility (psi ⁻¹):	4.80E-07
Calculated Skin Factor :	-1.28

PRODUCTION WITH DAMAGE REMOVED (bbl/D):	.65
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PRODUCTIVITY INDEX (bbl/psi):	0.00
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Final Flow Pressure (psi):	224.00
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APPROXIMATE RADIUS OF INVESTIGATION (ft):	24.41
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Total Flowing Time (min):	88.00
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EXTRAPOLATED RESERVOIR PRESSURE (psi):	1505.00
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Slope of Build-up Curve (psi/log cycle):	491.20
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Effective Producing Time (min):	88.00
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SUPERIOR TESTERS ENTERPRISES INC.

DATA SUMMARY

COMPANY : VANTAGE EXPLORATION GROUP WELL NAME : CASPARIA "A" #1
 DATE OF TEST : 5-23-1988 LOCATION : SW-SW-SW 20-27-12
 DST. NO : 4 SHUT-IN PERIOD : 2

INTERPRETIVE DATA (GAS)

TRANSMISSIBILITY

Oil (md.ft/cp):	0.00
Gas (md.ft/cp):	74.45

EFFECTIVE PERMEABILITY

Oil (md):	0.00
Gas (md):	1.27

TOTAL MOBILITY (md/cp):	6.59
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TOTAL COMPRESSIBILITY (psi ⁻¹):	9.20E-04
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ESTIMATED DAMAGE RATIO:	.36
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CALCULATED DAMAGE RATIO:	.61
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Reservoir Temperature (F):	129.00
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Formation Porosity :	.18
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Formation Thickness (ft):	10.00
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Wellbore Radius (in):	3.04
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Reservoir Compressibility (psi ⁻¹):	4.80E-07
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Calculated Skin Factor :	-1.21
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PRODUCTION WITH DAMAGE REMOVED (MCF/D):	101.00
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PRODUCTIVITY INDEX (MCF/psi):	.08
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Final Flow Pressure (psi):	224.00
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APPROXIMATE RADIUS OF INVESTIGATION (ft):	7.80
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Total Flowing Time (min):	88.00
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EXTRAPOLATED RESERVOIR PRESSURE (psi):	1496.10
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Slope of Build-up Curve (psi/log cycle):	1307219.81
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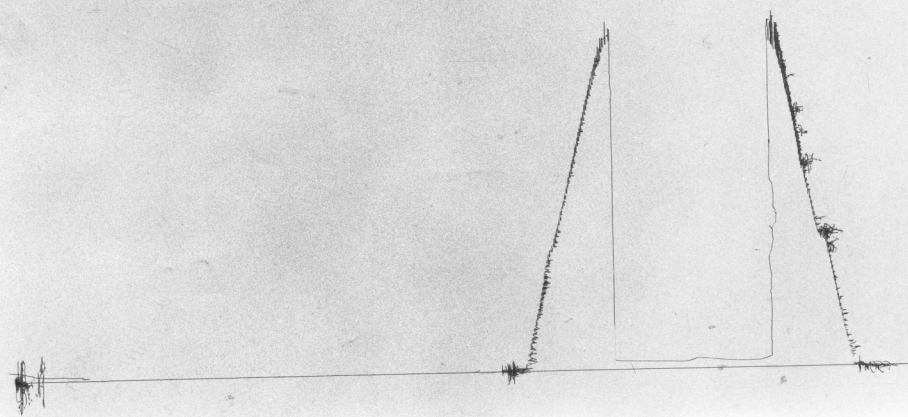
Effective Producing Time (min):	88.00
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INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

10.20.2

D.S.T. #

11087



10202

D.S.T. #

11085

