

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

API NO. 15- 155-21,301-0000 ORIGINAL

Operator: License # 30146
Name: Mach Petroleum, Inc.
Address P.O. Box 35583

County Reno
NW - NW - SE - 20 Sec. 25 Twp. 9 X E

2110 Feet from (S)N (circle one) Line of Section
2310 Feet from (E)W (circle one) Line of Section

City/State/Zip Tulsa, OK 74153
Purchaser: NCRA

Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)

Operator Contact Person: Thomas C. Mach
Phone (918) 496-0442

Lease Name Zink Well # 1
Field Name Langdon

Contractor: Name: Duke Drilling Co., Inc.
License: 5929

Producing Formation Mississippi
Elevation: Ground 1702 KB 1709

Wellsite Geologist: Dan Fredlund
Designate Type of Completion
 New Well Re-Entry Workover

Total Depth 4065 PBDT 4020
Amount of Surface Pipe Set and Cemented at 180 Feet

Oil SWD SIOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., etc.)

Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set _____ Feet

If Workover/Re-Entry: old well info as follows:

If Alternate II completion, cement circulated from _____
feet depth to _____ w/ _____ sx cmt.

Operator: _____
Well Name: _____
Comp. Date _____ Old Total Depth _____

RECEIVED
3-24-94
MAR 24 1994
STATION
MISSISSIPPI
7-1-94

Deepening Re-perf. Conv. to Inj/SWD
Plug Back PBDT
Commingled Docket No. _____
Dual Completion Docket No. _____
Other (SWD or Inj?) Docket No. _____

Chloride content 9,000 ppm Fluid volume 100 bbls
Filtering method used Haul

11-06-93 11-12-93 12/3/93
Spud Date Date Reached TD Completion Date

Location of fluid disposal if hauled offsite:
Operator Name C & C Tank Service
Lease Name Roach SWD License No. 30708

Quarter 14 Sec. 25 Twp. 9 X E/W
County Reno Docket No. D-22208

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature Nom C. Mach
Title President Date 3/21/94
Subscribed and sworn to before me this 21 day of March,
19 94.
Notary Public [Signature]
Date Commission Expires August 8, 1994

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other
(Specify)

SIDE TWO

Operator Name Mach Petroleum, Inc. Lease Name Zink Well # 1
 Sec. 20 Twp. 25 Rge. 9 East County Reno
 West

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken Yes No
 (Attach Additional Sheets.)
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No
 Electric Log Run Yes No
 (Submit Copy.)

List All E.Logs Run:

DIL/FDC/CNL/Cal/GR/SP/CBL/Hole Volume

Name	Top	Bottom
Topeka	2857	-1148
Heebner	3205	-1496
Iatan	3389	-1680
Lansing	3417	-1708
Stark	3674	-1965
Hushpuckney	3709	-2000
B/KC	3765	-2056
Cherokee	3875	-2166
Mississippi	3900	-2191
Kinderhook	3973	-2264

CASING RECORD <input checked="" type="checkbox"/> New <input checked="" type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (in O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4"	8-5/8"	23#	180'	60/40 poz	200	
Production	7-7/8"	5 1/2"	15.5#	4061'	60/40 poz	180	2% gel 10% salt

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated		Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth	
	4	3900-3914		2500g 10% HF Acid
			500 BBLs. x-link Polymer	
			40,000# 20/40 & 10/20 sand	

TUBING RECORD		Size	Set At	Packer At	Liner Run				
		2 7/8"	3850	3850		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Date of First, Resumed Production, SWD or Inj.				Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input checked="" type="checkbox"/> Swab Other (Explain)					
12/1/93									
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Water	Bbls.	Gas-Oil Ratio	Gravity	
	19		?		172			35	

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled Other (Specify) _____

Production Interval: 3900-3914

Superior Testers Enterprises, Inc.

ORIGINAL

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

(316) 792-6902

Date 11 11 97 Location NW NW SE 20 25 9 Elevation 1709 ^{KB} County RENO

Company WACK PETROLEUM, INC Number of Copies _____

Charts Mailed to PO BOX 35583 TULSA OKLAHOMA 74157

Drilling Contractor DUKE DRILLING CO

Length Drill Pipe 3877 I.D. Drill Pipe 380 Tool Joint Size 4EXH

Length Weight Pipe NONE I.D. Weight Pipe NONE Tool Joint Size NONE

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

Top Packer Depth 3895 3900 Bottom Packer Depth 3923 Number of Packers Three Packer Size _____

TESTED FROM 3900 TO 3923 ANCHOR LENGTH 23 TOTAL DEPTH 4065 Hole Size 6 1/2

LEASE & WELL NO. 21NK 1 FORMATION TESTED MISS TEST NO. 1

Mud Weight 9.4 Viscosity 42 Water Loss 96 Chlorides - Pits 5,000 D.S.T. 89,000

Maximum Temp. 118 °F Initial Hydrostatic Pressure (A) 1989 P.S.I. Final Hydrostatic Pressure (H) 1968 P.S.I.

Tool Open I.F.P. from 415 m to 515 m 60 min

Tool Closed I.C.I.P. from 515 m to 615 m 60 min

Tool Open F.F.P. from 615 m to 715 m 60 min

Tool Closed F.C.I.P. from 715 m to 1115 m 240 min

from [B] 63 P.S.I. to [C] 136 P.S.I.
 [D] 850 P.S.I.
 from [E] 199 P.S.I. to [F] 231 P.S.I.
 [G] 871 P.S.I.

Initial Blow STRONG BLOW OFF BOTTOM 2"

Final Blow WEEK BUILDING SLOWLY TO BOTTOM 10"

Total Feet Recovered 130 OIL CUT MUD 300 WATER 2150 GAS IN PIP Gravity of Oil _____ Corrected

<u>20</u> Feet of	<u>CLEAN OIL</u>	% Gas	100%	% Oil	%	% Mud	%	% Water
<u>50</u> Feet of	<u>OIL CUT MUD</u>	% Gas	12%	% Oil	20%	% Mud	58%	% Water
<u>60</u> Feet of	<u>MUDDY WATER</u>	% Gas	8%	% Oil	62%	% Mud	30%	% Water
<u>300</u> Feet of	<u>WATER</u>	% Gas		% Oil		% Mud	100%	% 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 YES Safety Joint YES Extra Packer YES Straddle YES Hook Wall NONE

Top Recorder No. 13561 Clock No. 1705 Depth 3915 Cir. Sub _____ Sampler NONE

Bottom Recorder No. _____ Clock No. 13844 Depth 3818 Insurance NA

Price of Job 3875 Tool Operator PAT STEVENSON

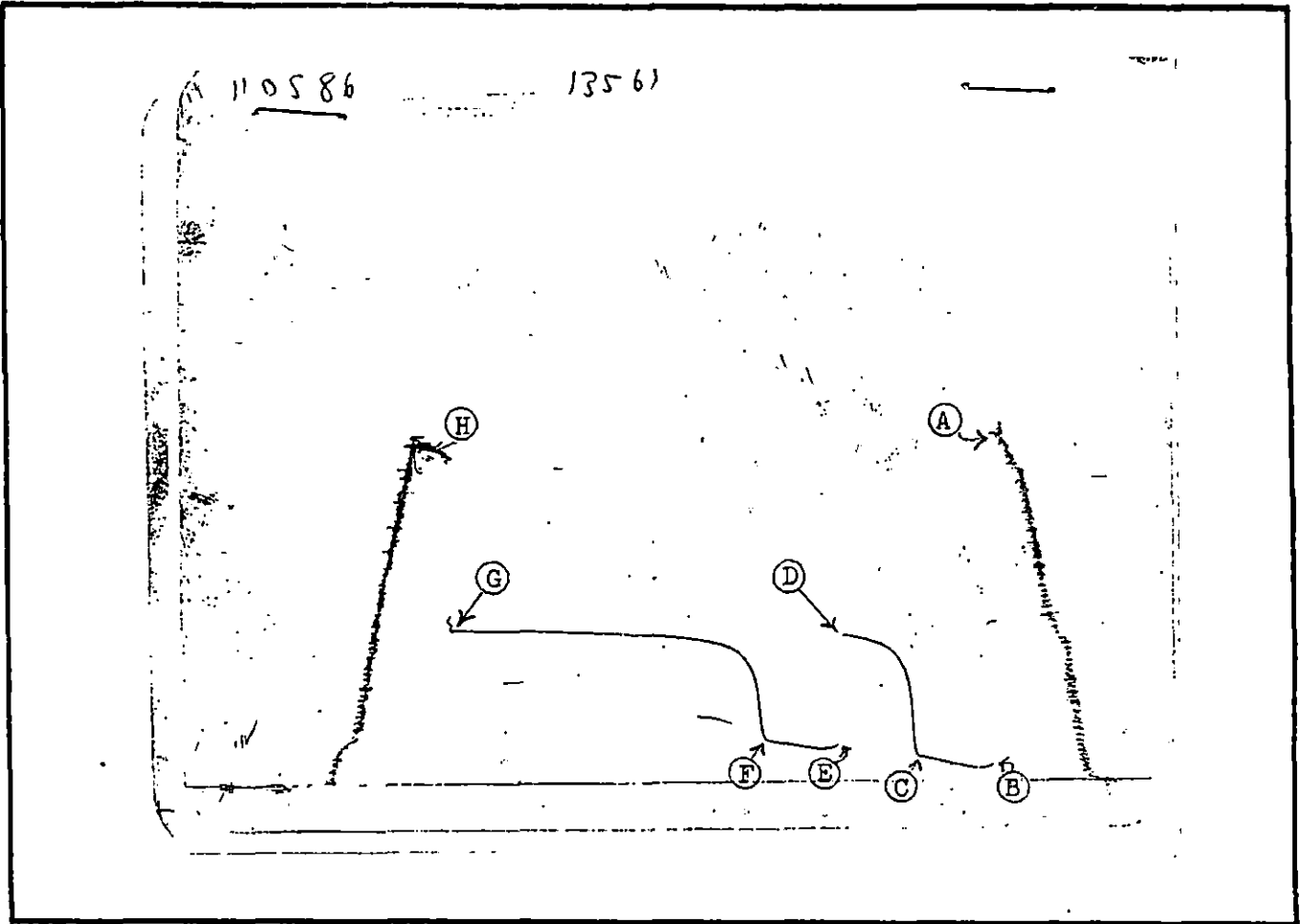
Approved By _____

No 11086

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.

ORIGINAL

COMPANY Mach Petroleum Inc. LEASE-WELL NO Zink # 1 SEC 20 TWP 25 RGE. 9w TEST NO. 1 DATE 11-11-1993
 API # 15-155-21301



This is an actual photograph of recorder chart.

POINT	PRESSURE		P.S.I.
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud	<u>1989</u>	<u>1983</u>	P.S.I.
(B) First Initial Flow Pressure	<u>63</u>	<u>79</u>	P.S.I.
(C) First Final Flow Pressure	<u>136</u>	<u>149</u>	P.S.I.
(D) Initial Closed-in Pressure	<u>850</u>	<u>848</u>	P.S.I.
(E) Second Initial Flow Pressure	<u>199</u>	<u>192</u>	P.S.I.
(F) Second Final Flow Pressure	<u>231</u>	<u>244</u>	P.S.I.
(G) Final Closed-in Pressure	<u>871</u>	<u>891</u>	P.S.I.
(H) Final Hydrostatic Mud	<u>1968</u>	<u>1930</u>	P.S.I.

JAM1970

SUPERIOR TESTERS ENTERPRISES INC.

WELL IDENTIFICATION DATA

COMPANY : MACH PETROLEUM INC. WELL NAME : ZINK #1
ADDRESS : P.O. BOX 35583, TULSA LOCATION : NW-NW-SE 20-25S-9W
STATE & COUNTY : KANSAS, RENO FIELD :
ELEV. (GR) : 1701 (KB) : 1709 TEST DATE : 11-11-1993

EQUIPMENT AND HOLE DATA

FORMATION TESTED : MISSISSIPPI DRILL PIPE LENGTH(ft) : 3877
TEST INT. KB : 3900 to 3923 DRILL PIPE O.D. (in) : 3.82
ANCHOR LENGTH(ft) : 23 WEIGHT PIPE LENGTH(ft) :
TYPE OF TEST : Conventional WEIGHT PIPE ID : 2.75
TOTAL DEPTH(ft-*kb*) : 3923 DRILL COLLAR LENGTH(ft) :
MAIN HOLE SIZE(in) : 7 7/8 DRILL COLLAR I.D. (in) : 2.259
MUD WEIGHT : 9.4 TOP PACKER DEPTH(*kb*) : 3895-3900
MUD VISCOSITY : 42 BOTTOM PACKER DEPTH(*kb*) : 3923
MUD CHLORIDES : 5000 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) : 118 TEST TICKET NUMBER : 11086

EXTRA EQUIPMENT : -JARS -SAFETY JOINT -EXTRA PACKER
-STRADDLE

ELEMENT SERIAL NO. : 13561
RANGE : 0 - 4175 CLOCK RANGE : 12 HOURS
CAL. EQU. : 1048.18 * Defl. + .46

SURFACE BLOW

1st Opening : STRONG BLOW BOTTOM OF THE BUCKET IN 2 MINUTES
2nd Opening : STRONG BLOW BOTTOM OF THE BUCKET IN 10 MINUTES

RECOVERY

Recovered 2150 feet of GAS IN THE PIPE
Recovered 20 feet of *clean oil*
Recovered 50 feet of OIL CUT MUD
Recovered 60 feet of SLIGHTLY OIL CUT MUDDY WATER
Recovered 300 feet of WATER CHLORIDES 89000
REMARKS :

WITNESSED BY : DAN FREDLUND

TOOL OPERATOR : PAT STEVENSON

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES INC.

ORIGINAL

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : MACH PETROLEUM INC.
DATE OF TEST : 11-11-1993
DEPTH : 3915.0

WELL NAME : ZINK #1
LOCATION : NW-NW-SE 20-25S-9W
SERIAL NO. : 13561

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			----- CALC	CORR	CORRECTED
TEST NO.:1					
Depth : 3915.0 ft-kb					
-1ST HYDROSTATIC	0.0	1.894	1985.71	-2.41	1983.30
-4:15 1ST FLOW	0.0	.076	80.12	-.29	79.83
- 4:20	5.0	.076	80.12	-.29	79.83
- 4:25	10.0	.076	80.12	-.29	79.83
- 4:30	15.0	.079	83.27	-.29	82.98
- 4:35	20.0	.084	88.51	-.27	88.24
- 4:40	25.0	.091	95.85	-.26	95.59
- 4:45	30.0	.097	102.14	-.25	101.89
- 4:50	35.0	.105	110.52	-.23	110.29
- 4:55	40.0	.114	119.95	-.21	119.75
- 5:00	45.0	.121	127.29	-.19	127.10
- 5:05	50.0	.129	135.68	-.17	135.50
- 5:10	55.0	.137	144.06	-.16	143.91
- 5:15	60.0	.142	149.30	-.14	149.16
-5:15 END FLOW	0.0	.142	149.30	-.14	149.16
- 5:18	3.0	.209	219.53	.01	219.54
- 5:21	6.0	.461	483.67	.57	484.24
- 5:24	9.0	.577	605.26	.83	606.09
- 5:27	12.0	.639	670.25	.97	671.22
- 5:30	15.0	.675	707.98	1.05	709.03
- 5:33	18.0	.703	737.33	1.11	738.45
- 5:36	21.0	.723	758.29	1.16	759.45
- 5:39	24.0	.738	774.02	1.19	775.21
- 5:42	27.0	.750	786.60	1.22	787.82
- 5:45	30.0	.759	796.03	1.24	797.27
- 5:48	33.0	.767	804.41	1.26	805.67
- 5:51	36.0	.774	811.75	1.27	813.03
- 5:54	39.0	.781	819.09	1.29	820.38
- 5:57	42.0	.787	825.38	1.30	826.68
- 6:00	45.0	.792	830.62	1.31	831.93
- 6:03	48.0	.796	834.81	1.32	836.13
- 6:06	51.0	.800	839.00	1.33	840.34
- 6:09	54.0	.802	841.10	1.34	842.44
- 6:12	57.0	.808	847.39	1.35	848.74
-6:12 1ST SHUT-IN	0.0	.808	847.39	1.35	848.74
-6:12 2ND FLOW	0.0	.183	192.28	-.05	192.23
- 6:17	5.0	.183	192.28	-.05	192.23
- 6:22	10.0	.183	192.28	-.05	192.23
- 6:27	15.0	.186	195.42	-.05	195.38
- 6:32	20.0	.190	199.62	-.04	199.58

ORIGINAL

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : MACH PETROLEUM INC.
 DATE OF TEST : 11-11-1993
 DEPTH : 3915.0

WELL NAME : ZINK #1
 LOCATION : NW-NW-SE 20-25S-9W
 SERIAL NO. : 13561

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			----- CALC	CORR	CORRECTED
TEST NO.:1					
- 6:37	25.0	.193	202.76	-.03	202.73
- 6:42	30.0	.199	209.05	-.02	209.03
- 6:47	35.0	.207	217.44	0.00	217.44
- 6:52	40.0	.214	224.77	.02	224.79
- 6:57	45.0	.218	228.97	.03	228.99
- 7:02	50.0	.224	235.25	.04	235.29
- 7:07	55.0	.228	239.45	.05	239.50
- 7:12	60.0	.233	244.69	.06	244.75
-7:12 END FLOW	0.0	.233	244.69	.06	244.75
- 7:15	3.0	.292	306.53	.19	306.72
- 7:18	6.0	.470	493.11	.59	493.70
- 7:21	9.0	.581	609.45	.84	610.29
- 7:24	12.0	.632	662.91	.95	663.87
- 7:27	15.0	.670	702.74	1.04	703.78
- 7:30	18.0	.696	729.99	1.10	731.09
- 7:33	21.0	.715	749.91	1.14	751.05
- 7:36	24.0	.728	763.54	1.17	764.71
- 7:39	27.0	.739	775.07	1.19	776.26
- 7:42	30.0	.749	785.55	1.22	786.76
- 7:45	33.0	.755	791.84	1.23	793.07
- 7:48	36.0	.761	798.13	1.24	799.37
- 7:51	39.0	.767	804.41	1.26	805.67
- 7:54	42.0	.773	810.70	1.27	811.97
- 7:57	45.0	.777	814.90	1.28	816.18
- 8:00	48.0	.781	819.09	1.29	820.38
- 8:03	51.0	.784	822.23	1.30	823.53
- 8:06	54.0	.788	826.43	1.30	827.73
- 8:09	57.0	.791	829.57	1.31	830.88
- 8:12	60.0	.794	832.72	1.32	834.03
- 8:15	63.0	.796	834.81	1.32	836.13
- 8:18	66.0	.798	836.91	1.33	838.24
- 8:21	69.0	.801	840.05	1.33	841.39
- 8:24	72.0	.803	842.15	1.34	843.49
- 8:27	75.0	.805	844.25	1.34	845.59
- 8:30	78.0	.806	845.29	1.35	846.64
- 8:33	81.0	.808	847.39	1.35	848.74
- 8:36	84.0	.810	849.49	1.35	850.84
- 8:39	87.0	.811	850.53	1.36	851.89
- 8:42	90.0	.812	851.58	1.36	852.94
- 8:45	93.0	.814	853.68	1.36	855.04

ORIGINAL

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : MACH PETROLEUM INC.
 DATE OF TEST : 11-11-1993
 DEPTH : 3915.0

WELL NAME : ZINK #1
 LOCATION : NW-NW-SE 20-25S-9W
 SERIAL NO. : 13561

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			----- CALC	CORR	CORRECTED
TEST NO.: 1					
- 8:48	96.0	.814	853.68	1.36	855.04
- 8:51	99.0	.816	855.78	1.37	857.14
- 8:54	102.0	.817	856.82	1.37	858.19
- 8:57	105.0	.818	857.87	1.37	859.24
- 9:00	108.0	.820	859.97	1.38	861.34
- 9:03	111.0	.821	861.02	1.38	862.39
- 9:06	114.0	.822	862.06	1.38	863.45
- 9:09	117.0	.824	864.16	1.39	865.55
- 9:12	120.0	.824	864.16	1.39	865.55
- 9:15	123.0	.825	865.21	1.39	866.60
- 9:18	126.0	.826	866.26	1.39	867.65
- 9:21	129.0	.827	867.31	1.39	868.70
- 9:24	132.0	.828	868.35	1.39	869.75
- 9:27	135.0	.829	869.40	1.40	870.80
- 9:30	138.0	.830	870.45	1.40	871.85
- 9:33	141.0	.831	871.50	1.40	872.90
- 9:36	144.0	.831	871.50	1.40	872.90
- 9:39	147.0	.832	872.55	1.40	873.95
- 9:42	150.0	.832	872.55	1.40	873.95
- 9:45	153.0	.833	873.59	1.41	875.00
- 9:48	156.0	.834	874.64	1.41	876.05
- 9:51	159.0	.835	875.69	1.41	877.10
- 9:54	162.0	.835	875.69	1.41	877.10
- 9:57	165.0	.837	877.79	1.41	879.20
- 10:00	168.0	.837	877.79	1.41	879.20
- 10:03	171.0	.838	878.84	1.42	880.25
- 10:06	174.0	.838	878.84	1.42	880.25
- 10:09	177.0	.839	879.88	1.42	881.30
- 10:12	180.0	.840	880.93	1.42	882.35
- 10:15	183.0	.841	881.98	1.42	883.40
- 10:18	186.0	.841	881.98	1.42	883.40
- 10:21	189.0	.842	883.03	1.43	884.45
- 10:24	192.0	.842	883.03	1.43	884.45
- 10:27	195.0	.842	883.03	1.43	884.45
- 10:30	198.0	.843	884.08	1.43	885.50
- 10:33	201.0	.843	884.08	1.43	885.50
- 10:36	204.0	.843	884.08	1.43	885.50
- 10:39	207.0	.843	884.08	1.43	885.50
- 10:42	210.0	.843	884.08	1.43	885.50
- 10:45	213.0	.844	885.12	1.43	886.55

ORIGINAL

SUPERIOR TESTERS ENTERPRISES INC.

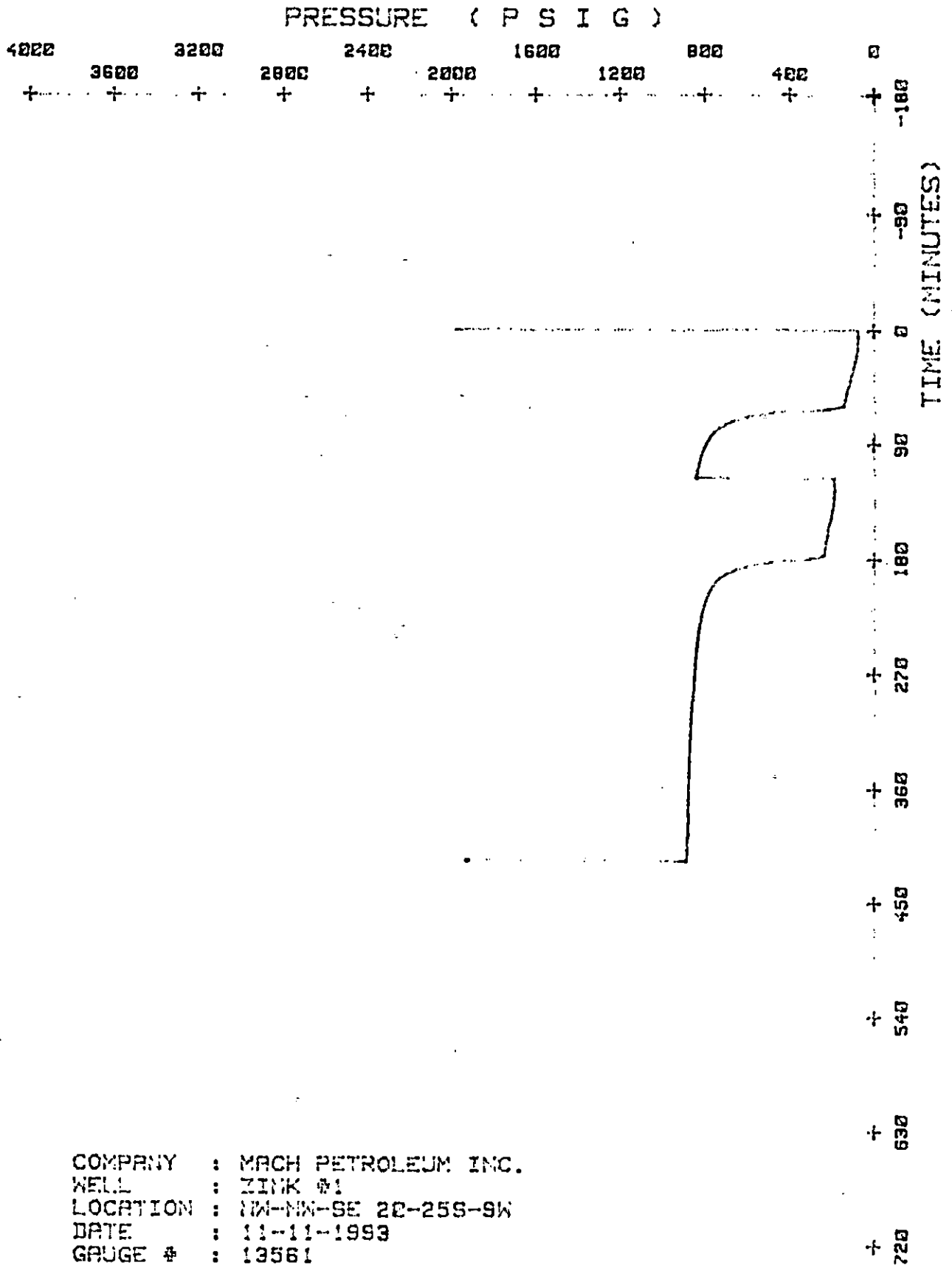
SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : MACH PETROLEUM INC.
DATE OF TEST : 11-11-1993
DEPTH : 3915.0

WELL NAME : ZINK #1
LOCATION : NW-NW-SE 20-25S-9W
SERIAL NO. : 13561

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			----- CALC	CORR	CORRECTED
TEST NO.:1					
- 10:48	216.0	.844	885.12	1.43	886.55
- 10:51	219.0	.844	885.12	1.43	886.55
- 10:54	222.0	.844	885.12	1.43	886.55
- 10:57	225.0	.845	886.17	1.43	887.61
- 11:00	228.0	.846	887.22	1.43	888.66
- 11:03	231.0	.846	887.22	1.43	888.66
- 11:06	234.0	.846	887.22	1.43	888.66
- 11:09	237.0	.847	888.27	1.44	889.71
- 11:12	240.0	.849	890.37	1.44	891.81
-11:12 2ND SHUT-IN	0.0	.849	890.37	1.44	891.81
- 11:12	0.0	1.843	1932.25	-2.19	1930.06
-2ND HYDROSTATIC	0.0	1.843	1932.25	-2.19	1930.06

ORIGINAL

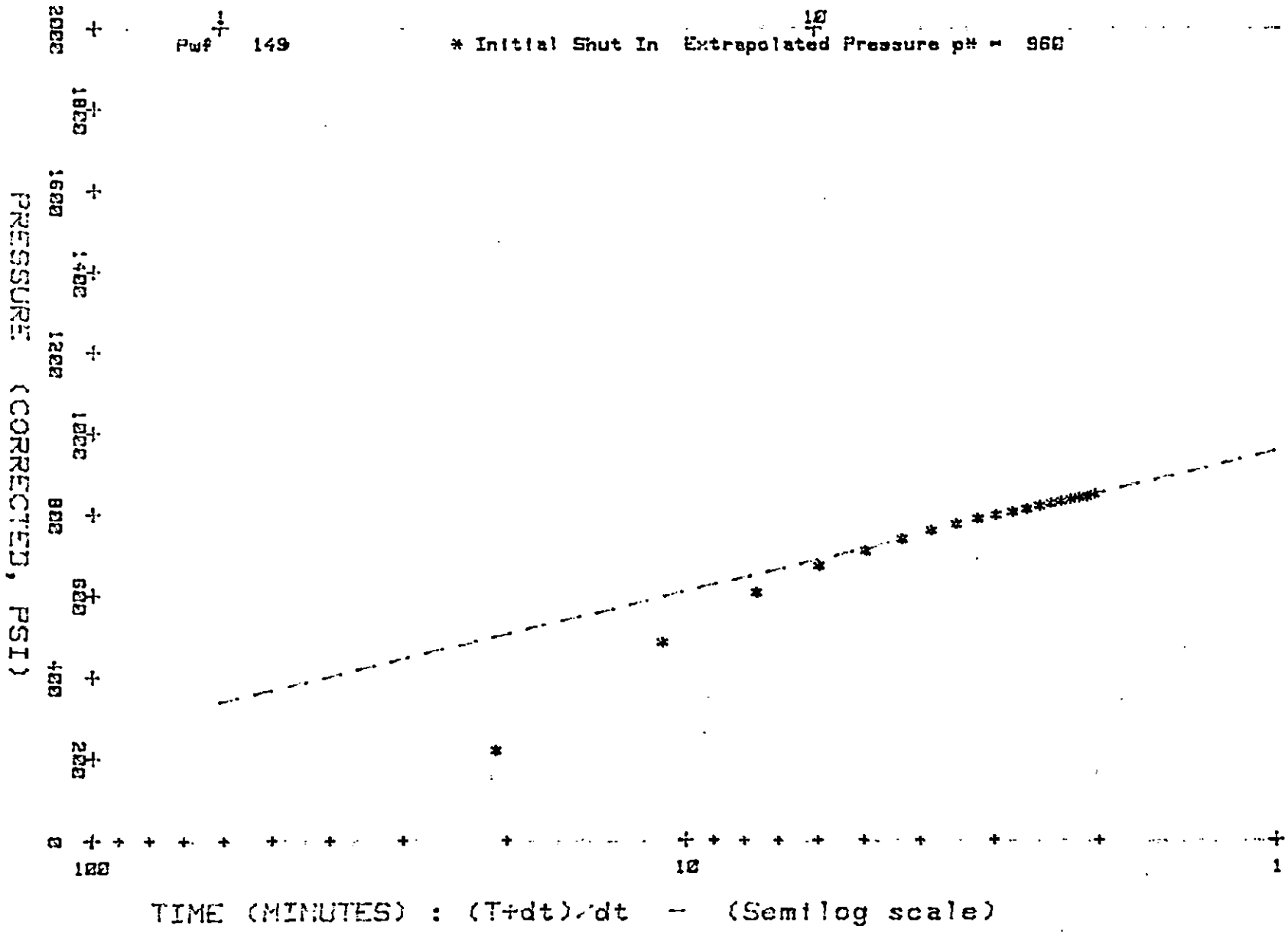


COMPANY : MACH PETROLEUM INC.
WELL : ZINK #1
LOCATION : NW-NW-SE 20-25S-9W
DATE : 11-11-1993
GAUGE # : 13561

LOCATION : NW-NW-SE 20-25S-9N

DATE : 11-11-1993

GAUGE # : 13561



HORNER ANALYSIS

COMPANY : MACH PETROLEUM INC.
 WELL NAME : ZINK #1
 LOCATION : NW-NW-SE 20-25S-9W
 STATE & COUNTY : KANSAS.RENO
 DATE OF TEST : 11-11-1993
 TEST INT. KB : 3900 to 3923
 TOTAL INTERVAL (ft) K.B. : 23.00
 ELEV.(GR) : 1701 (KB) : 1709
 FIELD :

ELEMENT SERIAL NO. : 13561
 LATEST CALIBRATION :

COMMENTS	TIME min	(T+dt)/dt min	----- PRESSURES CORR PSIG
Refer. depth :	3915.0 ft-kb		
-5:15 END FLOW	0.00	0.00	149.16
	3.00	21.00	219.54
	6.00	11.00	484.24
	9.00	7.67	606.09
	12.00	6.00	671.22
	15.00	5.00	709.03
	18.00	4.33	738.45
	21.00	3.86	759.45
	24.00	3.50	775.21
	27.00	3.22	787.82
	30.00	3.00	797.27
	33.00	2.82	805.67
	36.00	2.67	813.03
	39.00	2.54	820.38
	42.00	2.43	826.68
	45.00	2.33	831.93
	48.00	2.25	836.13
	51.00	2.18	840.34
	54.00	2.11	842.44
	57.00	2.05	848.74
-6:12 1ST SHUT-IN	0.00	0.00	848.74

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES. INC.

11/19/93
SUPERIOR TESTERS ENTERPRISES INC.

DATA SUMMARY

COMPANY : MACH PETROLEUM INC.
DATE OF TEST : 11-11-1993
DST. NO : 1

WELL NAME : ZINK #1
LOCATION : NW-NW-SE 20-25S-9W
SHUT-IN PERIOD : 1

INTERPRETIVE DATA (OIL)

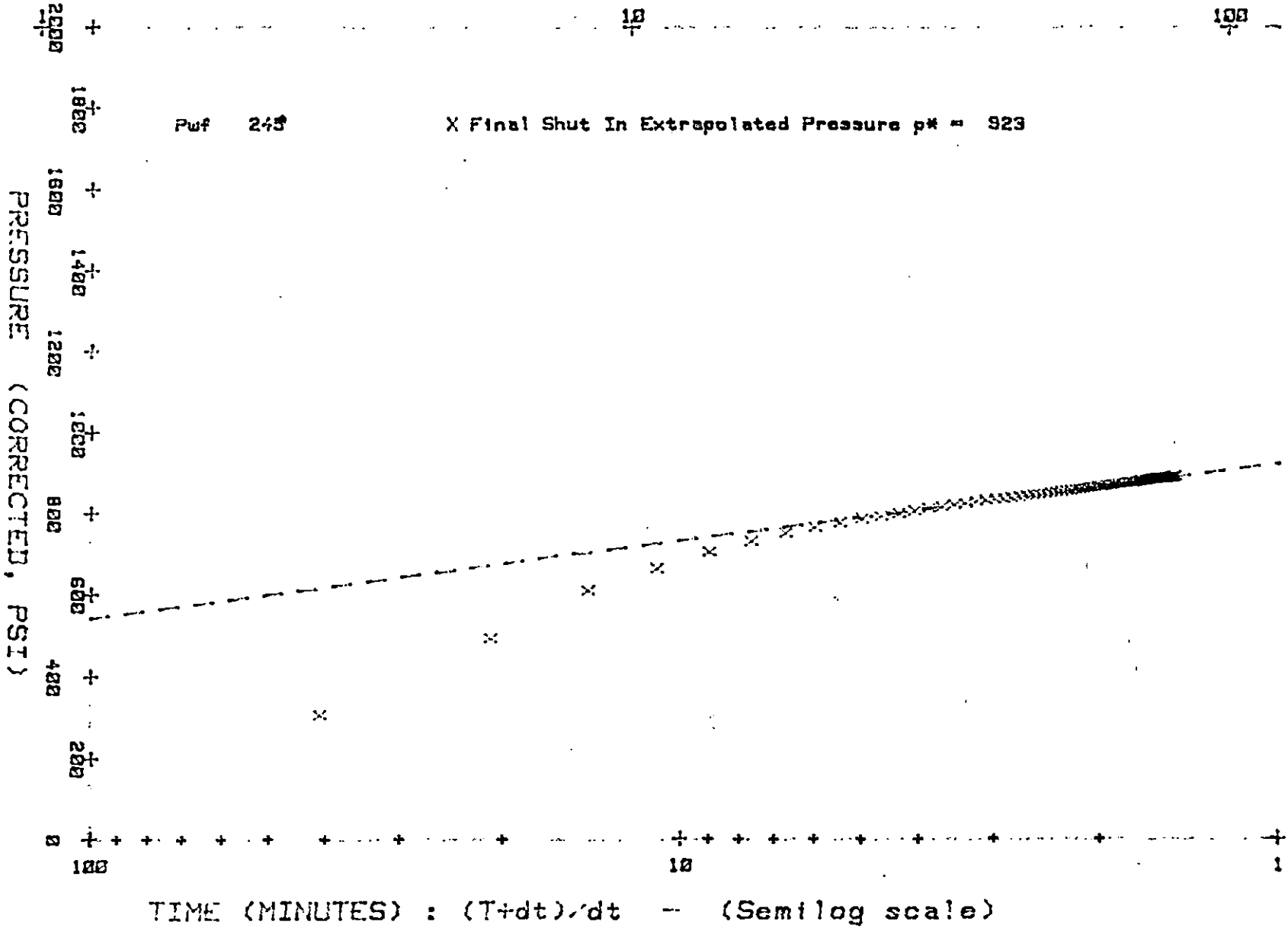
EXTRAPOLATED RESERVOIR PRESSURE (psi):	960.00
Slope of Build-up Curve (psi/log cycle):	347.54
Effective Producing Time (min):	60.00

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

LOCATION : NN-NW-SE 20-25S-9W

DATE : 11-11-1993

GAUGE # : 13561



ORIGINAL

MACH
SUPERIOR TESTERS ENTERPRISES INC.

HORNER ANALYSIS

COMPANY : MACH PETROLEUM INC.
 WELL NAME : ZINK #1
 LOCATION : NW-NW-SE 20-25S-9W
 STATE & COUNTY : KANSAS.REND
 DATE OF TEST : 11-11-1993
 TEST INT. KB : 3900 to 3923
 TOTAL INTERVAL (ft) K.B. : 23.00
 ELEV.(GR) : 1701 (KB) : 1709
 FIELD :

ELEMENT SERIAL NO. : 13561
 LATEST CALIBRATION :

COMMENTS	TIME min	(T+dt)/dt min	----- PRESSURES CORR PSIG
Refer. depth :	3915.0 ft-kb		
-7:12 END FLOW	0.00	0.00	244.75
	3.00	41.00	306.72
	6.00	21.00	493.70
	9.00	14.33	610.29
	12.00	11.00	663.87
	15.00	9.00	703.78
	18.00	7.67	731.09
	21.00	6.71	751.05
	24.00	6.00	764.71
	27.00	5.44	776.26
	30.00	5.00	786.76
	33.00	4.64	793.07
	36.00	4.33	799.37
	39.00	4.08	805.67
	42.00	3.86	811.97
	45.00	3.67	816.18
	48.00	3.50	820.38
	51.00	3.35	823.53
	54.00	3.22	827.73
	57.00	3.11	830.88
	60.00	3.00	834.03
	63.00	2.90	836.13
	66.00	2.82	838.24
	69.00	2.74	841.39
	72.00	2.67	843.49
	75.00	2.60	845.59
	78.00	2.54	846.64
	81.00	2.48	848.74
	84.00	2.43	850.84
	87.00	2.38	851.89

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES. INC.

ORIGINAL

SUPERIOR TESTERS ENTERPRISES INC.

HORNER ANALYSIS

COMPANY : MACH PETROLEUM INC.
DATE OF TEST : 11-11-1993
REFERENCE DEPTH : 3915.0

WELL NAME : ZINK #1
LOCATION : NW-NW-SE 20-25S-9W
SERIAL NO. : 13561

COMMENTS	TIME min	(T+dt)/dt min	----- PRESSURES CORR PSIG -----
	90.00	2.33	852.94
	93.00	2.29	855.04
	96.00	2.25	855.04
	99.00	2.21	857.14
	102.00	2.18	858.19
	105.00	2.14	859.24
	108.00	2.11	861.34
	111.00	2.08	862.39
	114.00	2.05	863.45
	117.00	2.03	865.55
	120.00	2.00	865.55
	123.00	1.98	866.60
	126.00	1.95	867.65
	129.00	1.93	868.70
	132.00	1.91	869.75
	135.00	1.89	870.80
	138.00	1.87	871.85
	141.00	1.85	872.90
	144.00	1.83	872.90
	147.00	1.82	873.95
	150.00	1.80	873.95
	153.00	1.78	875.00
	156.00	1.77	876.05
	159.00	1.75	877.10
	162.00	1.74	877.10
	165.00	1.73	879.20
	168.00	1.71	879.20
	171.00	1.70	880.25
	174.00	1.69	880.25
	177.00	1.68	881.30
	180.00	1.67	882.35
	183.00	1.66	883.40
	186.00	1.65	883.40
	189.00	1.63	884.45
	192.00	1.63	884.45
	195.00	1.62	884.45
	198.00	1.61	885.50
	201.00	1.60	885.50
	204.00	1.59	885.50
	207.00	1.58	885.50

JAN1990

SUPERIOR TESTERS ENTERPRISES INC.

HORNER ANALYSIS

COMPANY : MACH PETROLEUM INC.
DATE OF TEST : 11-11-1993
REFERENCE DEPTH : 3915.0

WELL NAME : ZINK #1
LOCATION : NW-NW-SE 20-25S-9W
SERIAL NO. : 13561

COMMENTS	TIME min	(T+dt)/dt min	----- PRESSURES CORR PSIG	-----
	210.00	1.57	885.50	
	213.00	1.56	886.55	
	216.00	1.56	886.55	
	219.00	1.55	886.55	
	222.00	1.54	886.55	
	225.00	1.53	887.61	
	228.00	1.53	888.66	
	231.00	1.52	888.66	
	234.00	1.51	888.66	
	237.00	1.51	889.71	
	240.00	1.50	891.81	
-11:12 2ND SHUT-IN	0.00	0.00	891.81	

SUPERIOR TESTERS ENTERPRISES INC-ORIGINAL

DATA SUMMARY

COMPANY : MACH PETROLEUM INC. WELL NAME : ZINK #1
 DATE OF TEST : 11-11-1993 LOCATION : NW-NW-SE 20-25S-9W
 ST. NO : 1 SHUT-IN PERIOD : 2

INTERPRETIVE DATA (DIL)

TRANSMISSIBILITY	
il (md.ft/cp):	5.10
as (md.ft/cp):	0.00
EFFECTIVE PERMEABILITY	
il (md):42
as (md):	0.00
TOTAL MOBILITY (md/cp):	5.26
TOTAL COMPRESSIBILITY (psi-1):	6.94E-06
ESTIMATED DAMAGE RATIO:76
CALCULATED DAMAGE RATIO:77
Reservoir Temperature (F):	118.00
Formation Porosity :18
Formation Thickness (ft):	10.00
Wellbore Radius (in):	3.94
Reservoir Compressibility (psi-1):	4.80E-07
Calculated Skin Factor :	-1.24
PRODUCTION WITH DAMAGE REMOVED (bbl/D):	5.93
WATER PRODUCTION WITH DAMAGE REMOVED (bbl/D):.....	55.04
PRODUCTIVITY INDEX (bbl/psi):01
Final Flow Pressure (psi):	245.00
APPROXIMATE RADIUS OF INVESTIGATION (ft):	93.69
Total Flowing Time (min):	120.00
EXTRAPOLATED RESERVOIR PRESSURE (psi):	923.00
Slope of Build-up Curve (psi/log cycle):	189.08
Effective Producing Time (min):	120.00

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.



CHARGE TO: Mach Petroleum Inc,
 ADDRESS: P.O. Box 35583
 CITY, STATE, ZIP CODE: Tulsa, OK, 74153

TICKET No. 509978-7
 PAGE 1 OF 2

FORM 1906 R-12

41359

1. SERVICE LOCATIONS <u>Pratt 25555</u>	WELL/PROJECT NO. <u>1-6</u>	LEASE <u>Z/14K Z/14K</u>	COUNTY/PARISH <u>Ren</u>	STATE <u>KS</u>	CITY/OFFSHORE LOCATION	DATE <u>11-6-93</u>	OWNER <u>Same</u>
2. TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR <u>Duke</u>	RIG NAME/NO. <u>2</u>	SHIPPED VIA	DELIVERED TO <u>well site</u>	ORDER NO.	
3. WELL TYPE <u>01</u>	WELL CATEGORY <u>01</u>	JOB PURPOSE <u>oil</u>	WELL PERMIT NO. <u>15155213010000-</u>	WELL LOCATION <u>6-25-9 Ren</u>			
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS <u>20%</u>						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF			QTY.	U/M	QTY.	U/M		
<u>000-117</u>		<u>1</u>				<u>MILEAGE</u>	<u>28</u>	<u>m.</u>			<u>2.75</u>	<u>77.0</u>
<u>001-016</u>		<u>1</u>				<u>Pump</u>	<u>192</u>	<u>ft</u>				<u>575.0</u>
<u>030-503</u>		<u>1</u>				<u>CP-1 8 5/8 plug</u>	<u>1</u>	<u>ea</u>				<u>95.0</u>
ORIGINAL												

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions. CUSTOMER OR CUSTOMER'S AGENT SIGNATURE <u>Steve Bundy</u> DATE SIGNED _____ TIME SIGNED _____ <input type="checkbox"/> A.M. <input type="checkbox"/> P.M. <input type="checkbox"/> do <input type="checkbox"/> do not require IPC (Instrument Protection). <input type="checkbox"/> Not offered	SURFACE SAFETY VALVE WAS: <input type="checkbox"/> PULLED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN	SURVEY AGREE UN-DECIDED DIS-AGREE	PAGE TOTAL <u>747.0</u>	
	DEPTH SPACERS CASING PRESSURE	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN? WE UNDERSTOOD AND MET YOUR NEEDS? OUR SERVICE WAS PERFORMED WITHOUT DELAY? WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY? ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO	FROM CONTINUATION PAGE(S) <u>215.4</u>	SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE <u>2901.3</u>
	TUBING SIZE TUBING PRESSURE WELL DEPTH	TREE CONNECTION TYPE VALVE	<input checked="" type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND	
	CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.			

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT) <u>Steve Bundy</u>	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) <u>Steve Bundy</u>	HALLIBURTON OPERATOR/ENGINEER <u>M Krueger</u>	EMP # <u>261114</u>	HALLIBURTON APPROVAL
---	--	---	------------------------	----------------------



FORM 1906 R-12

ORIGINAL

CHARGE TO: Patroleum INC
 ADDRESS: _____
 CITY, STATE, ZIP CODE: _____

COPY

TICKET

No. **509936-9**

PAGE 1 OF 2

SERVICE LOCATIONS	WELL/PROJECT NO. 1. <u>TRAT 45</u>	LEASE <u>Zink</u>	COUNTY/PARISH <u>RENO</u>	STATE <u>Ks.</u>	CITY/OFFSHORE LOCATION	DATE <u>11-12-93</u>	OWNER <u>SAME</u>
	TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input type="checkbox"/> NO	CONTRACTOR <u>DUKE DRIG</u>	RIG NAME/NO.	SHIPPED VIA <u>CT</u>	DELIVERED TO <u>WELL SITE</u>	ORDER NO.
	WELL TYPE	WELL CATEGORY	JOB PURPOSE <u>035</u>	WELL PERMIT NO. <u>AP 155-21301</u>	WELL LOCATION <u>28-25S-19W</u>		
REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/PART NUMBER	ACCOUNTING	LOG	ACCT.	DF	TIME	DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
000-117							MILEAGE ROUND TRIP	60	MI			2.25	165.00
001-011							PUMP CHARGE	8	HR				1545.00
019-241							ROTATING HEAD	1	HR				185.00
030-016							3/4" TOP PLUG	1	EA				60.00
018-017							CURVEFLUAT	12	HR	500	EA	1.60	7200.00
12A	825-205						3/4" GUIDE STAR	1	EA				121.00
24A	813-19251						3/4" 120GRY FROAT U/DLOG	1	EA				118.00
27	815-19372						3/4" EXP UNIT	1	EA				39.00
340	806-60022						3/4" 051 CENTRAL GRS	5	EA			44.00	220.00
320	806-20030						3/4" 051 007 BARRETT	1	EA				110.00
350	896-10302						HALLIBURTON GSD-A	1	EA				14.50

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, LIMITED WARRANTY provisions.

CUSTOMER OR CUSTOMER'S AGENT SIGNATURE: X/ [Signature]
 DATE SIGNED: 11-12-93 TIME SIGNED: 08:30

do do not require IPC (Instrument Protection). Not offered.

SUB SURFACE SAFETY VALVE WAS: <input type="checkbox"/> PULLED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN	SURVEY: <input type="checkbox"/> AGREE <input type="checkbox"/> UN-DECIDED <input type="checkbox"/> DIS-AGREE	PAGE TOTAL	3785.50
TYPE LOCK: <u>MAN 2</u>	DEPTH	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	FROM CONTINUATION PAGE(S)
BEAN SIZE: <u>2</u>	SPACERS	WE UNDERSTOOD AND MET YOUR NEEDS?	224.65
TYPE OF EQUIPMENT: <u>199</u>	CASING PRESSURE	OUR SERVICE WAS PERFORMED WITHOUT DELAY?	
TUBING SIZE: <u>MISS</u>	TUBING PRESSURE	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?	
TUBING PRESSURE	WELL DEPTH	ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO	SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE
TREE CONNECTION	TYPE VALVE	<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND	7012.15

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES: The customer hereby acknowledges receipt of the materials and services listed on this ticket.

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT): _____
 CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE): X/ [Signature]
 HALLIBURTON OPERATOR/ENGINEER: M.R. [Signature] EMP # 50848
 HALLIBURTON APPROVAL: _____

WELL DATA

FIELD _____ SEC. *1* TWP. *25* RING. *9* COUNTY *Pratt* STATE *KS*

FORMATION NAME _____ TYPE _____
 FORMATION THICKNESS _____ FROM _____ TO _____
 INITIAL PROD. OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD _____
 PRESENT PROD. OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD _____
 COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____
 PACKER TYPE _____ SET AT _____
 BOTTOM HOLE TEMP. _____ PRESSURE _____
 MISC. DATA _____ TOTAL DEPTH _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING			<i>9 5/8</i>	<i>0</i>	<i>170</i>	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLED OUT DATE	ON LOCATION DATE	JOB STARTED DATE	JOB COMPLETED DATE
<i>11-6</i>	<i>11-6</i>	<i>11-6</i>	<i>11-6</i>
TIME <i>11:00</i>	TIME <i>12:30</i>	TIME <i>1:15</i>	TIME <i>7:30</i>

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG	<i>1</i>	<i>Hercules</i>
HEAD		
PACKER		
OTHER		

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<i>Kron 26414</i>	<i>41258</i>	<i>Pratt</i>
<i>Wadlow 62573</i>	<i>50120</i>	
<i>Wadlow 62573</i>	<i>50120</i>	
<i>Wadlow 62573</i>	<i>50120</i>	
<i>Wadlow 62573</i>	<i>50120</i>	
<i>Wadlow 62573</i>	<i>50120</i>	

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL. API _____
 DISPL. FLUID _____ DENSITY _____ LB/GAL. API _____
 PROP. TYPE _____ SIZE _____ LB _____
 PROP. TYPE _____ SIZE _____ LB _____
 ACID TYPE _____ GAL _____ % _____
 ACID TYPE _____ GAL _____ % _____
 ACID TYPE _____ GAL _____ % _____
 SURFACTANT TYPE _____ GAL _____ IN _____
 NE AGENT TYPE _____ GAL _____ IN _____
 FLUID LOSS ADD. TYPE _____ GAL-LB _____ IN _____
 GELLING AGENT TYPE _____ GAL-LB _____ IN _____
 FRIC. RED. AGENT TYPE _____ GAL-LB _____ IN _____
 BREAKER TYPE _____ GAL-LB _____ IN _____
 BLOCKING AGENT TYPE _____ GAL-LB _____
 PERFPAC BALLS TYPE _____ QTY _____
 OTHER _____
 OTHER _____

DEPARTMENT *Cement*
 DESCRIPTION OF JOB *Cement 9 5/8 Surface*
 JOB DONE THRU TUBING CASING ANNULUS TBG/ANN.
 CUSTOMER REPRESENTATIVE *X [Signature]*

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIONS	MAR 24 1974	YIELD LBS/SK	MIXED LBS/GAL
	<i>30</i>	<i>Standard</i>	<i>B</i>				<i>118</i>	<i>15.6</i>
	<i>170</i>	<i>410/60</i>		<i>296</i>			<i>1130</i>	<i>15.6</i>

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____
 BREAKDOWN _____ MAXIMUM _____
 AVERAGE _____ FRACTURE GRADIENT _____
 SHUT-IN INSTANT _____ 5-MIN _____ 15-MIN _____
 HYDRAULIC HORSEPOWER _____
 ORDERED _____ AVAILABLE _____ USED _____
 AVERAGE RATES IN BPM _____
 TREATING _____ DISPL. _____ OVERALL _____
 CEMENT LEFT IN PIPE _____
 FEET *10* REASON *Per 15057*

PRESLUSH: BBL-GAL _____ TYPE _____
 LOAD & BKDN: BBL-GAL _____ PAD: BBL-GAL _____
 TREATMENT: BBL-GAL _____ DISPL: BBL-GAL *109*
 CEMENT SLURRY: BBL-GAL *21057*
 TOTAL VOLUME: BBL-GAL _____

REMARKS

CUSTOMER NO. _____
 DATE _____
 JOB TYPE _____
 WELL NO. _____
 DATE _____

CUSTOMER: MAHAR PETROLEUM INC	WELL NO: 11	LEASE: ZION	JOB TYPE: CEMENT	TICKET NO: 509936
-------------------------------	-------------	-------------	------------------	-------------------

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0530							CALLED OUT
	0732							ON LOCATION
								RIG LAYING DOWN D.P.
	1130							BREAK CIRC. CIRC 1 1/2 HRS
	1306	6				150		RUN SALT PREFLUSH
						150		RUN SUPERFLUSH
	1332		0					MIX CAMP
	1335		6.95					PLUG RATTLE & MOUNT HOLE
	1341	7	0			200	ADJ	PUMPING DOWN CCG
	1343		46.48					SHUT DOWN START IN FLUSH LINES
	1345	8 1/2 ADJ	0			300	ADJ	START PUMPING DISP
						400		MAX POI PUMP
	1355	3						SLOW RATE
	1357					1200		PLUG DOWN
	3549							RELEASE
								RECEIVED WICHITA COMMISSION MAR 24 1994
								WASH UP CONSERVATION DIVISION Wichita, Kansas
								RACK UP
								JOB COMP.



HALLIBURTON

ORIGINAL

DATE: 11-6-93 PAGE NO.

JOB LOG FORM 2013 R-4

CUSTOMER Mack P-1	WELL NO. 1-6	LEASE Zink	JOB TYPE Surface	TICKET NO. 509992
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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	12:30							on location
	1:15							Break out
	1:30	5	0	1				Start to mix 30 SA stabilizer
	1:37	5	6.3	1				150 Start to mix 1/2
	1:41		15.7	1				Cement in
								Pull up on plug
	1:44	5	0	1		100		Start Drop
	1:47		10.9	1		150		Plug Down
	1:48							Close IN
								Wash up
	2:23							Back up
								Cover in well to

RECEIVED STATE CORPORATION COMMISSION

THANK YOU MAR 24 1994

CONSERVATION DIVISION Wichita, Kansas



HALLIBURTON JOB SUMMARY

HALLIBURTON DIVISION
HALLIBURTON LOCATION

MID-CONTINENT
PRATT, KS

BILLED ON: 509936
TICKET NO.

WELL DATA

FIELD _____ SEC 20 TWP 20S RNG 9W COUNTY RENO STATE KS

FORMATION NAME _____ TYPE _____

FORMATION THICKNESS _____ FROM _____ TO _____

INITIAL PROD. OIL _____ BPD WATER _____ BPD GAS _____ MCFD _____

PRESENT PROD. OIL _____ BPD WATER _____ BPD GAS _____ MCFD _____

COMPLETION DATE _____ MUD TYPE _____ MUD WT _____

PACKER TYPE _____ SET AT _____

BOTTOM HOLE TEMP _____ PRESSURE _____

MISC DATA _____ TOTAL DEPTH _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING		15k	5 1/2"	0		
LINER						
TUBING						
OPEN HOLE			7 7/8"	KB	HOLE	SHOTS/FT
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
FLOAT COLLAR 1 1/2" X 2" BONT	1	HES
FLOAT SHOE AUTO. FUL	1	
GUIDE SHOE	1	
CENTRALIZERS	5	
BOTTOM PLUG HALL CEMENT WELD A	1	
TOP PLUG	1	
HEAD PIC	1	
PACKET CEMENT BRACKET	1	
OTHER Roto-HEAD		

CALLLED OUT DATE	ON LOCATION DATE	JOB STARTED DATE	JOB COMPLETED DATE
11-12	11-12	11-12	11-12
TIME 05:30	TIME 07:32	TIME 1500	TIME 1400

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
M. POLYAKO 50848	35423 9/4	PRATT, KS
K. GORDLEW C 8500	51906 10MB	
D. ZIMMERT G 2568		

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL API

DISPL. FLUID _____ DENSITY _____ LB/GAL API

PROP. TYPE _____ SIZE _____ LB

PROP. TYPE _____ SIZE _____ LB

ACID TYPE _____ GAL _____ %

ACID TYPE _____ GAL _____ %

ACID TYPE _____ GAL _____ %

SURFACTANT TYPE _____ GAL _____ IN

NE AGENT TYPE _____ GAL _____ IN

FLUID LOSS ADD. TYPE _____ GAL-LB _____ IN

GELLING AGENT TYPE _____ GAL-LB _____ IN

FRIC. RED. AGENT TYPE _____ GAL-LB _____ IN

BREAKER TYPE _____ GAL-LB _____ IN

BLOCKING AGENT TYPE _____ GAL-LB _____

PERFPAC BALLS TYPE _____ QTY _____

OTHER _____

OTHER _____

DEPARTMENT AMT

DESCRIPTION OF JOB CEMENT 5 1/2" L/S

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE X Steve Bussard

HALLIBURTON OPERATOR M. Polyako REQUESTED

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	30	40 POC 60	STD		NOTES: 7% PLUG, RAT. HOLE & MOLDING	1.36	13.96
	180	40 POC 60	STD		2% GEL, 10% SACT, 75% HREAD-322, 6% GILSONITE	1.45	13.7

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING DISPLACEMENT _____ PRES LUSH: BBL 20 - 12 TYPE SACT - SUPERFLUOR

BREAKDOWN _____ MAXIMUM _____ LOAD & BKDN: BBL-GAL _____ PAD: BBL-GAL _____

AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL-GAL _____ DISPL: BBL-GAL _____

SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____ CEMENT SLURRY: BBL-GAL 30 SCS - 6.75 180 SCS - 46.48

HYDRAULIC HORSEPOWER _____ TOTAL VOLUME: BBL-GAL _____

ORDERED _____ AVAILABLE _____ USED _____ REMARKS: CENTRALIZERS ON COLLARS 1-2-3-6-7
CMT BRACKET ON ST. 4

AVERAGE RATES IN BPM _____

TREATING _____ DISPL _____ OVERALL _____

CEMENT LEFT IN PIPE _____

FEET 33-39 REASON INSULT

CUSTOMER: PRATT RE-ENGINEERING
DATE: 11-12-93
WELL NO.:
JOB TYPE: Cement