

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

API No. 15 - 075-20564-0000

ORIGINAL

County Hamilton

210' WEST - NW - SE - NE Sec. 35 Twp. 21S Rge. 39 X East West

Operator: License # 5952

1650 Feet from S/N (circle one) Line of Section

Name: Amoco Production Company

1200 Feet from E/W (circle one) Line of Section

Address PO Box 800 Room 924

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

City/State/Zip Denver, CO 80201

Lease Name Tom Smith Well # 1-35

Purchaser: N/A

Field Name Wildcat

Operator Contact Person: Susan R. Potts

Producing Formation Dry

Phone 303-830-5323

Elevation: Ground 3433' KB 3444'

Contractor: Name: Cheyenne Drilling

Total Depth 5440' PBDT

License: 5382

Amount of Surface Pipe Set and Cemented at 307' Feet

Wellsite Geologist: Austin Garner

Multiple Stage Cementing Collar Used? Yes X No

Designate Type of Completion
X New Well Re-Entry Workover

If yes, show depth set Feet

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

If Alternate II completion, cement circulated from

feet depth to w/ sx cm.

Drilling Fluid Management Plan D&A 994 10-17-95
(Data must be collected from the Reserve Pit)

If Workover/Re-entry: old well info as follows: NOV 1 1996

Chloride content 70,000 ppm Fluid Volume 2000 bbls

Operator:

Dewatering method used Dried and Filled

Well Name: FROM CONFIDENTIAL

Location of fluid disposal if hauled offsite: KCC

Comp. Date Old Total Depth

Operator Name RECEIVED
KANSAS CORPORATION COMMISSION SEP 13

 Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PBDT

Lease Name License CONFIDENTIAL

 Commingled Docket No.

Quarter SEP 18 1995 Sec. Twp. S. Rng. E/W

 Dual Completion Docket No.

County 9-18-95 Docket No.

 Other (SWD or Inj?) Docket No.

7-25-95 8-5-95 8-5-95
Spud Date Date Reached TD Completion Date

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 to the best of my knowledge.

Signature Juan R. BHO

Title Senior Staff Assistant Date September 13, 1995

Subscribed and sworn to before me this 13th day of September 1995

Notary Public Donna J. Monroe

Date Commission Expires May 4, 1999

K.C.C. OFFICE USE ONLY		
F	<input checked="" type="checkbox"/>	Letter of confidentiality Attached
C	<input checked="" type="checkbox"/>	Wireline Log Received
C	<input type="checkbox"/>	Drillers Timelog Received
Distribution		
<input checked="" type="checkbox"/>	KCC	<input type="checkbox"/> SWD/Rep
<input type="checkbox"/>	KGS	<input type="checkbox"/> Plug
<input type="checkbox"/>		<input type="checkbox"/> NGPA
<input type="checkbox"/>		<input type="checkbox"/> Other
		(Specify)

Operator Name Amoco Production Company Lease Name Tom Smith Well # 1-35
 County Hamilton
 Sec. 35 Twp. 21S Rge. 39 East 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 (Attach Additional Sheets.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datums	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Base Fresh Water	220'	KB
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Base Stone Corral	2325'	
List All E. Logs Run: Microlog, High Resolution Induction Digitally Focused, Long Spaced Sonic, Compensated Spectral Natural Gamma Ray, Spectral Density Dual Spaced Neutron, Geologic Report		Chase Top	2724'	
		Council Grove	2952'	
		Admire	3415'	
		Base Heebner	3964'	
		Lansing	4014'	(Continued)

CASING RECORD

New 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	12.25"	8.625"	20	307'	Premium Plus Midcon 3	150 70	2%CC+1/4# flocele 1/2#sk Flocele

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth		Type of Cement	# Sacks Used	Type and Percent Additives
	Top	Bottom			
<input checked="" 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		Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used)	Depth
	N/A			

TUBING RECORD N/A Size _____ Set At _____ Packer At _____ Liner Run Yes No

Date of First Resumed Production, SWD or Inj Dry Hole Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours Oil N/A Bbls. Gas N/A Mcf Water N/A Bbls. Gas-Oil Ratio _____ Gravity _____

Disposition of Gas: Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled Dry

(If vented, submit ACO-18) Other (Specify) _____

METHOD OF COMPLETION

Formations (Continued)

ORIGINAL

Name	Top
Base Kansas City	4472'
Morrow	4950'
Chester	Not Present
St. Genevieve	Not Present
St. Louis	5227'

15-075-20564-0000

RELEASED

NOV 1 1996

FROM CONFIDENTIAL

KCC

SEP 13

CONFIDENTIAL

RECEIVED
KANSAS CORPORATION COMMISSION

SEP 18 1995

CONSERVATION DIVISION
WICHITA, KS

AMOCO PRODUCTION COMPANY
TOM SMITH 1-35
SECTION 35-T21S-R39W
HAMILTON COUNTY, KANSAS

ORIGINAL

COMMENCED: 07-25-95
COMPLETED: 08-05-95

SURFACE CASING: 307' OF 8 5/8" CMTD
W/70 SKS MIDCON3 + 3% CC + 1/4
#/SK FLOCELE. TAILED IN W/ 150 SKS
CLASS C + 2% CC + 1/4 #/SK FLOCELE.

FORMATION	DEPTH
SURFACE HOLE	0 - 307
SHALE, CLAY & SANDSTONE	307 - 515
SHALES	515 - 831
SANDSTONE & LIMESTONE	831 - 1457
SANDSTONE & CLAY	1457 - 2057
SANDSTONE & SHALES	2057 - 2410
CHASE	2410 - 3160
ADMIRE	3160 - 3540
HEEBNER	3540 - 3674
ADMIRE	3674 - 4180
HEEBNER	4180 - 4394
KANSAS CITY	4394 - 4456
LANSING	4456 - 4785
KANSAS CITY & CHEROKEE	4785 - 4935
MORROW	4935 - 5110
MORROW & CHESTER	5110 - 5236
ST. LOUIS	5236 - 5440 RTD

RELEASED
NOV 1 1996
FROM CONFIDENTIAL

KCC
SEP 13
CONFIDENTIAL

I DO HEREBY CERTIFY THAT THE FOREGOING STATEMENTS ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

CHEYENNE DRILLING, INC.
Wray Valentine
WRAY VALENTINE

STATE OF KANSAS : ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 7TH DAY OF AUGUST, 1995

RECEIVED
KANSAS CORPORATION COMMISSION

SEP 18 1995

PEGGY A. HARMS

CONSERVATION DIVISION
WICHITA, KS

PEGGY A. HARMS
Notary Public - State of Kansas
My Appt. Expires 8/1/98

Peggy A. Harms
NOTARY PUBLIC

DRILL-STEM TEST DATA

15-075-20564

ORIGINAL

116HT
HOLDS
RUC

Well Name: TOM SMITH 1-35
Company : AMOCO PRODUCTION COMPANY
Location - Sec: 35 Twp: 21S
County: HAMILTON State: KS
Date: 8/4/95

Rge: 39W
SEP 13
CONFIDENTIAL

RELEASED

NOV 1 1996

FROM CONFIDENTIAL

TRILOBITE TESTING L.L.C.

OPERATOR : AMOCO DATE 8-4-95
 WELL NAME: Tom Smith #1-35 KB 3444.00 ft TICKET NO: 8147 DST #1
 PERMITS : 35-21-39 GR 0.00 ft FORMATION: Morrow
 INTERVAL : 5176.00 To 5218.00 ft TD 5434.00 ft TEST TYPE: STRADDLE

ORDER DATA

ms	Field	1	2	3	4	TIME DATA-----
10 Rec.	6730	6730	2351			PF Fr. 9:53 to 10:0 hr
60 Range(Psi)	4200.0	4200.0	4995.0	0.0	0.0	IS Fr. 10:0 to 11:0 hr
120 Clock(hrs)	26199	26199				SF Fr. 11:0 to 13:0 hr
120 Depth(ft)	5178.0	5178.0	5212.0	0.0	0.0	FS Fr. 13:0 to 15:0 hr

	Field	1	2	3	4	
Init Hydro	2506.0	2548.0	2577.0	0.0	0.0	T STARTED 8:00 hr
First Flow	43.0	42.0	23.0	0.0	0.0	T ON BOTM 9:45 hr
Final Flow	53.0	46.0	27.0	0.0	0.0	T OPEN 9:53 hr
In Shut-in	1489.0	1539.0	1571.0	0.0	0.0	T PULLED 15:0 hr
Init Flow	53.0	50.0	30.0	0.0	0.0	T OUT 18:3 hr
Final Flow	64.0	63.0	46.0	0.0	0.0	
Fl Shut-in	1236.0	1235.0	1242.0	0.0	0.0	TOOL DATA-----
Final Hydro	2502.0	2528.0	2533.0	0.0	0.0	Tool Wt. 25000.00 lbs
Side/Outside	0	0	I			Wt Set On Packer 20000.00 lbs

DISCOVERY
 Fluid 30.00 ft of 0.00 ft in DC and 0.00 ft in DP
 00 ft of Drlg. Mud
 0 ft of
 0 ft of
 0 ft of
 0 ft of
 0 ft of
 0 ft of
 0 ft of

Unseated Str Wt 82000.00 lbs
 Bot Choke 0.75 in
 Hole Size 7.87 in
 D Col. ID 2.25 in
 D. Pipe ID 3.70 in
 D.C. Length 542.00 ft
 D.P. Length 4596.00 ft

DENSITY 13000.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----

DESCRIPTION
 Steady 1/4" weak blow
 Follow a weak surface blow for 10 sec.
 died.

Mud Type Chem.
 Weight 8.90 lb/cf
 Vis. 61.00 S/L
 W.L. 8.20 in3
 F.C. 0.00 in
 Mud Drop
 Amt. of fill 0.00 ft
 Btm. H. Temp. 1340.00 F
 Hole Condition good
 % Porosity 0.00
 Packer Size 6.75 in
 No. of Packers 3
 Cushion Amt. 0.00
 Cushion Type
 Reversed Out N
 Tool Chased N
 Tester Gary Speer
 Co. Rep. Chuck Schmaltz
 Contr. Cheyenne
 Rig # #3
 Unit #
 Pump T.

LES:
 TO:

Test Successful: Y

ORIGINAL

TEST HISTORY

8147 DST #1 Tom Smith #1-35 AMOCO

Flag Points

t(Min.) P(PSig)

R1	0.00	2577.83
B1	0.00	23.24
C1	8.00	27.18
D1	60.00	1571.71
E1	0.00	30.96
F1	118.00	46.74
G1	120.00	1242.88
Q1	0.00	2533.77

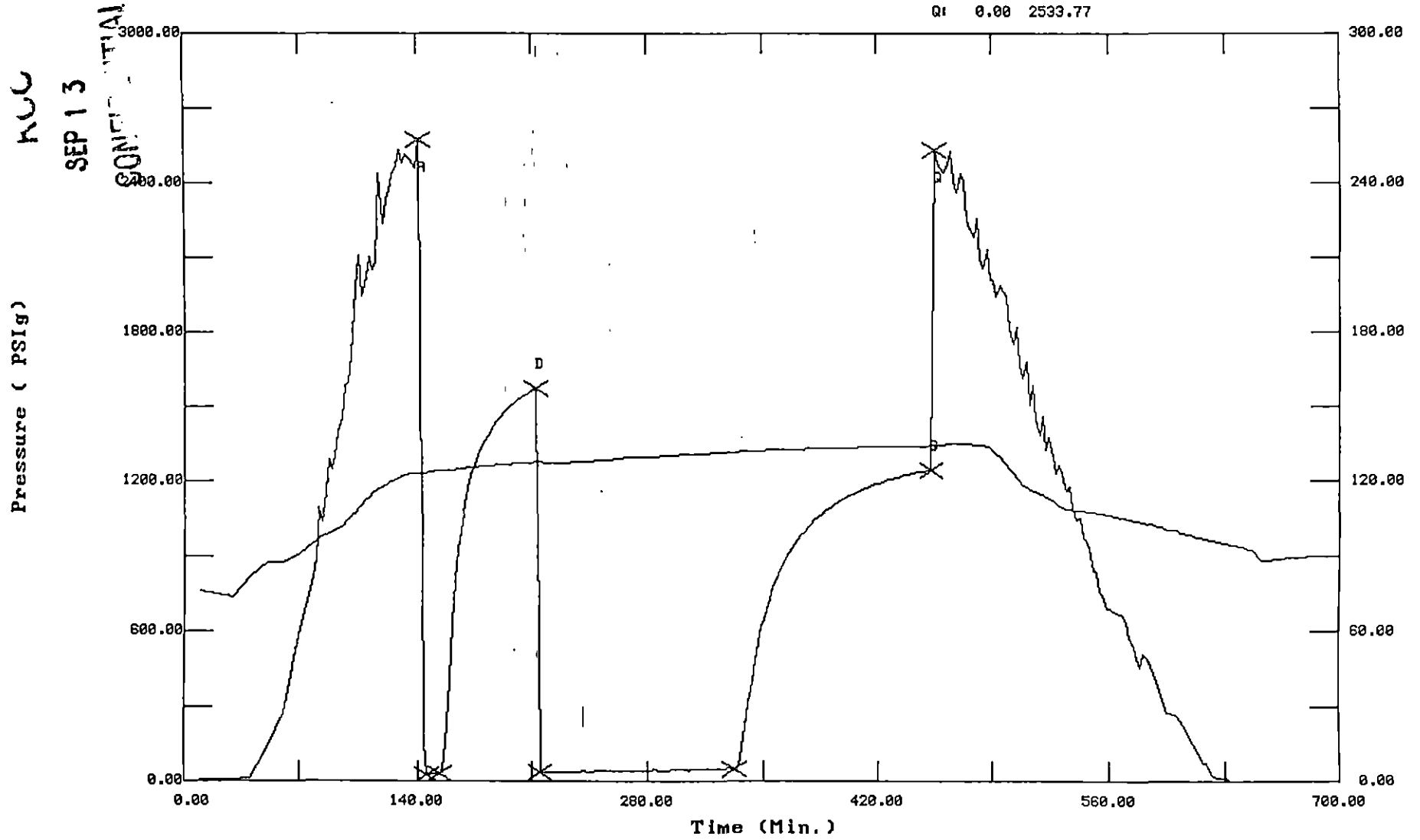
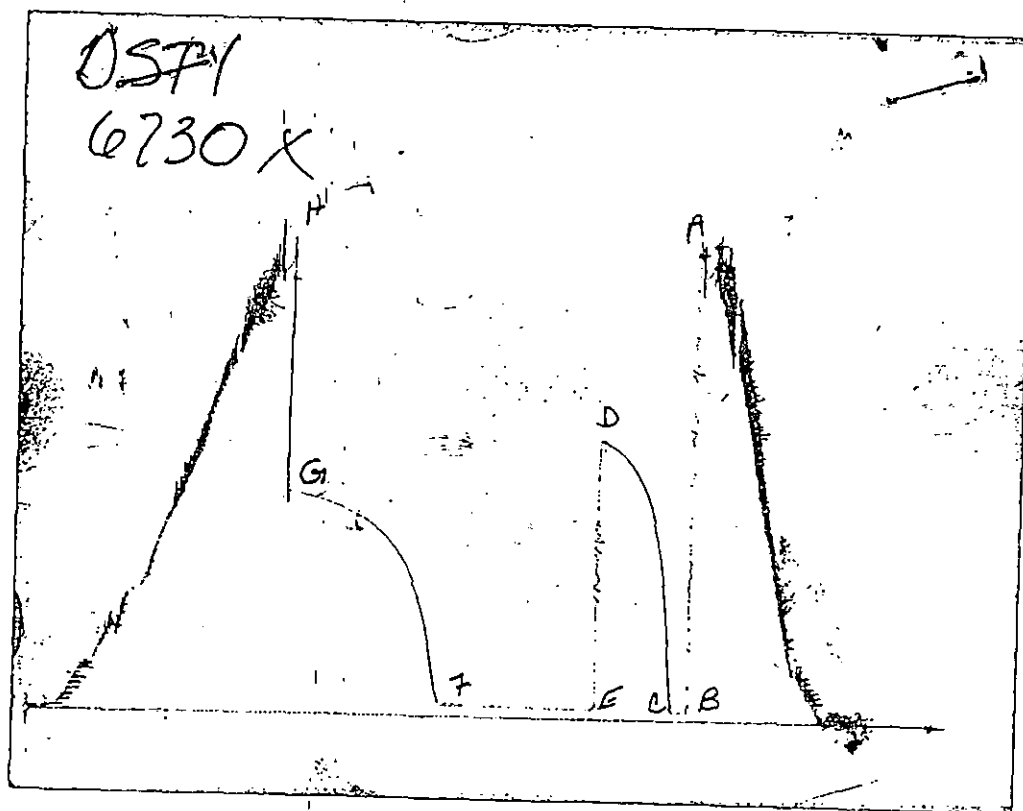


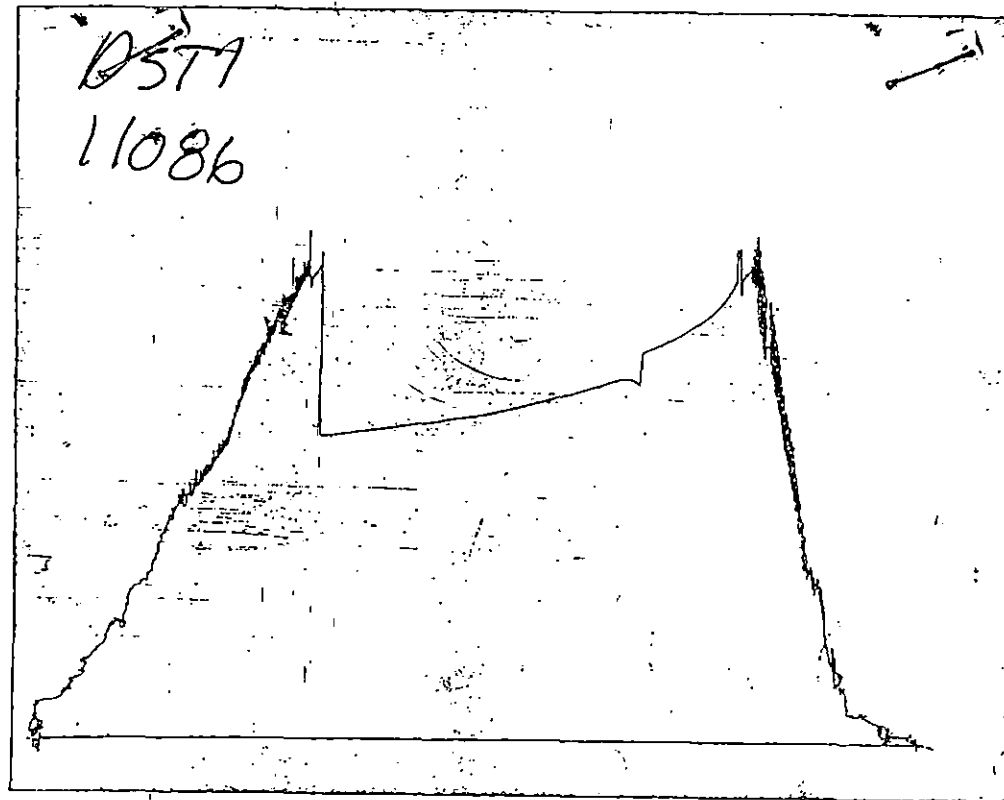
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CHART PAGE



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ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

ST: 8147 DST #1 Tom Smith #1-35 AMOCO

TE: 08/04/95 TIME: 07:39:27

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
*** Initial Hydro.	141.00	2577.8	0.0	123.11		
*** Start Flow 1	0.00	23.2	0.0	123.19		
	2.00	24.5	1.3	123.40		
	4.00	25.4	2.2	123.71		
	6.00	26.3	3.0	123.99		
*** End Flow 1	8.00	27.2	3.9	124.12		
*** Start Shutin 1	0.00	27.2	0.0	124.12	0.0000	0.001
	2.00	43.0	15.9	124.18	5.0000	0.002
	4.00	153.3	126.1	124.17	3.0000	0.024
	6.00	404.5	377.3	124.19	2.3333	0.164
	8.00	631.4	604.2	124.29	2.0000	0.399
	10.00	802.2	775.0	124.41	1.8000	0.643
	12.00	930.0	902.8	124.57	1.6667	0.865
	14.00	1028.5	1001.3	124.75	1.5714	1.058
	16.00	1106.2	1079.1	124.91	1.5000	1.224
	18.00	1169.3	1142.1	125.10	1.4444	1.367
	20.00	1221.6	1194.5	125.22	1.4000	1.492
	22.00	1264.6	1237.4	125.40	1.3636	1.599
	24.00	1300.4	1273.2	125.55	1.3333	1.691
	26.00	1331.3	1304.2	125.69	1.3077	1.772
	28.00	1357.9	1330.8	125.83	1.2857	1.844
	30.00	1382.1	1354.9	125.97	1.2667	1.910
	32.00	1404.5	1377.3	126.09	1.2500	1.973
	34.00	1424.2	1397.1	126.21	1.2353	2.028
	36.00	1442.1	1414.9	126.34	1.2222	2.080
	38.00	1458.7	1431.5	126.44	1.2105	2.128
	40.00	1473.8	1446.6	126.55	1.2000	2.172
	42.00	1486.7	1459.5	126.67	1.1905	2.210
	44.00	1500.4	1473.2	126.76	1.1818	2.251
	46.00	1512.2	1485.0	126.86	1.1739	2.287
	48.00	1522.1	1494.9	126.96	1.1667	2.317
	50.00	1531.7	1504.5	127.06	1.1600	2.346
	52.00	1540.8	1513.6	127.13	1.1538	2.374
	54.00	1549.1	1521.9	127.24	1.1481	2.400
	56.00	1557.3	1530.1	127.32	1.1429	2.425
	58.00	1564.8	1537.6	127.41	1.1379	2.449
*** End Shut-in 1	60.00	1571.7	1544.5	127.48	1.1333	2.470
*** Start Flow 2	0.00	31.0	0.0	127.46		
	2.00	31.7	0.8	127.36		
	4.00	32.4	1.4	127.27		
	6.00	32.8	1.8	127.18		
	8.00	33.1	2.1	127.11		
	10.00	33.4	2.4	127.07		
	12.00	33.6	2.7	127.10		
	14.00	34.1	3.1	127.20		
	16.00	34.5	3.5	127.32		
	18.00	34.9	3.9	127.41		
	20.00	35.1	4.1	127.51		
	22.00	35.6	4.6	127.61		
	24.00	36.5	5.5	127.72		
	26.00	37.3	6.4	127.78		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8147 DST #1 Tom Smith #1-35 AMOCO
 DATE: 08/04/95 TIME: 07:39:27

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶	
28.00	36.0	5.0	127.83			
30.00	36.2	5.2	127.91			
32.00	36.5	5.5	127.99			
34.00	39.2	8.2	128.07			
36.00	36.8	5.8	128.18			
38.00	37.8	6.8	128.28			
40.00	37.4	6.5	128.40			
42.00	37.6	6.6	128.49			
44.00	39.8	8.8	128.61			
46.00	39.4	8.5	128.74			
48.00	38.8	7.9	128.85			
50.00	41.9	10.9	129.05			
52.00	40.2	9.2	129.39			
54.00	40.0	9.1	129.39			
56.00	40.4	9.4	129.39			
58.00	39.2	8.2	129.40			
60.00	39.3	8.3	129.41			
62.00	40.6	9.7	129.41			
64.00	41.1	10.2	129.41			
66.00	41.5	10.6	129.41			
68.00	42.0	11.0	129.41			
70.00	43.5	12.6	129.44			
72.00	40.7	9.7	129.63			
74.00	41.5	10.5	129.86			
76.00	42.1	11.2	129.97			
78.00	41.4	10.4	130.10			
80.00	43.2	12.3	130.19			
82.00	44.1	13.1	130.27			
84.00	43.5	12.6	130.34			
86.00	44.0	13.0	130.45			
88.00	44.1	13.2	130.52			
90.00	42.6	11.7	130.61			
92.00	43.8	12.8	130.68			
94.00	46.1	15.1	130.74			
96.00	45.9	14.9	130.81			
98.00	45.1	14.2	130.88			
100.00	45.0	14.0	130.96			
102.00	45.2	14.3	131.02			
104.00	46.1	15.1	131.09			
106.00	46.2	15.3	131.15			
108.00	46.5	15.5	131.22			
110.00	46.2	15.3	131.29			
112.00	47.2	16.3	131.36			
114.00	48.7	17.7	131.41			
116.00	47.5	16.5	131.48			
118.00	46.7	15.8	131.54			
***** End Flow 2						
***** Start Shutin 2	0.00	46.7	0.0	131.54	0.0000	0.002
	2.00	64.8	18.0	131.61	64.0000	0.004
	4.00	137.3	90.6	131.71	32.5000	0.019
	6.00	220.8	174.1	131.81	22.0000	0.049
	8.00	313.5	266.7	131.86	16.7500	0.098

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

147 DST #1 Tom Smith #1-35 AMOCO

3/04/95 TIME: 07:39:27

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
10.00	401.5	354.8	131.95	13.6000	0.161
12.00	482.9	436.2	132.01	11.5000	0.233
14.00	553.4	506.7	132.08	10.0000	0.306
16.00	614.0	567.3	132.15	8.8750	0.377
18.00	663.5	616.8	132.23	8.0000	0.440
20.00	707.7	660.9	132.28	7.3000	0.501
22.00	755.6	708.9	132.35	6.7273	0.571
24.00	792.1	745.4	132.41	6.2500	0.627
26.00	824.7	777.9	132.46	5.8462	0.680
28.00	854.2	807.5	132.51	5.5000	0.730
30.00	880.9	834.2	132.56	5.2000	0.776
32.00	904.8	858.1	132.62	4.9375	0.819
34.00	926.6	879.9	132.66	4.7059	0.859
36.00	946.3	899.5	132.70	4.5000	0.895
38.00	964.7	917.9	132.73	4.3158	0.931
40.00	982.5	935.8	132.78	4.1500	0.965
42.00	997.9	951.2	132.83	4.0000	0.996
44.00	1013.2	966.4	132.86	3.8636	1.027
46.00	1027.2	980.4	132.92	3.7391	1.055
48.00	1040.1	993.4	132.95	3.6250	1.082
50.00	1052.1	1005.4	133.00	3.5200	1.107
52.00	1063.3	1016.5	133.04	3.4231	1.131
54.00	1073.4	1026.7	133.08	3.3333	1.152
56.00	1083.5	1036.8	133.10	3.2500	1.174
58.00	1093.0	1046.2	133.14	3.1724	1.195
60.00	1102.1	1055.4	133.17	3.1000	1.215
62.00	1110.7	1064.0	133.22	3.0323	1.234
64.00	1118.8	1072.1	133.26	2.9688	1.252
66.00	1126.5	1079.7	133.30	2.9091	1.269
68.00	1133.7	1086.9	133.33	2.8529	1.285
70.00	1140.3	1093.6	133.37	2.8000	1.300
72.00	1146.9	1100.2	133.40	2.7500	1.315
74.00	1153.4	1106.7	133.42	2.7027	1.330
76.00	1159.5	1112.8	133.46	2.6579	1.345
78.00	1165.3	1118.6	133.49	2.6154	1.358
80.00	1170.5	1123.8	133.53	2.5750	1.370
82.00	1175.6	1128.8	133.56	2.5366	1.382
84.00	1180.5	1133.8	133.60	2.5000	1.394
86.00	1185.2	1138.5	133.62	2.4651	1.405
88.00	1190.0	1143.3	133.64	2.4318	1.416
90.00	1194.4	1147.6	133.67	2.4000	1.427
92.00	1198.7	1152.0	133.70	2.3696	1.437
94.00	1202.7	1155.9	133.74	2.3404	1.446
96.00	1206.4	1159.6	133.75	2.3125	1.455
98.00	1210.3	1163.6	133.79	2.2857	1.465
100.00	1213.9	1167.2	133.81	2.2600	1.474
102.00	1217.5	1170.8	133.83	2.2353	1.482
104.00	1221.0	1174.2	133.87	2.2115	1.491
106.00	1223.9	1177.2	133.88	2.1887	1.498
108.00	1227.6	1180.9	133.91	2.1667	1.507
110.00	1230.4	1183.6	133.93	2.1455	1.514

TE
DA



 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8147 DST #1 Tom Smith #1-35 AMOCO

DATE: 08/04/95

TIME: 07:39:27

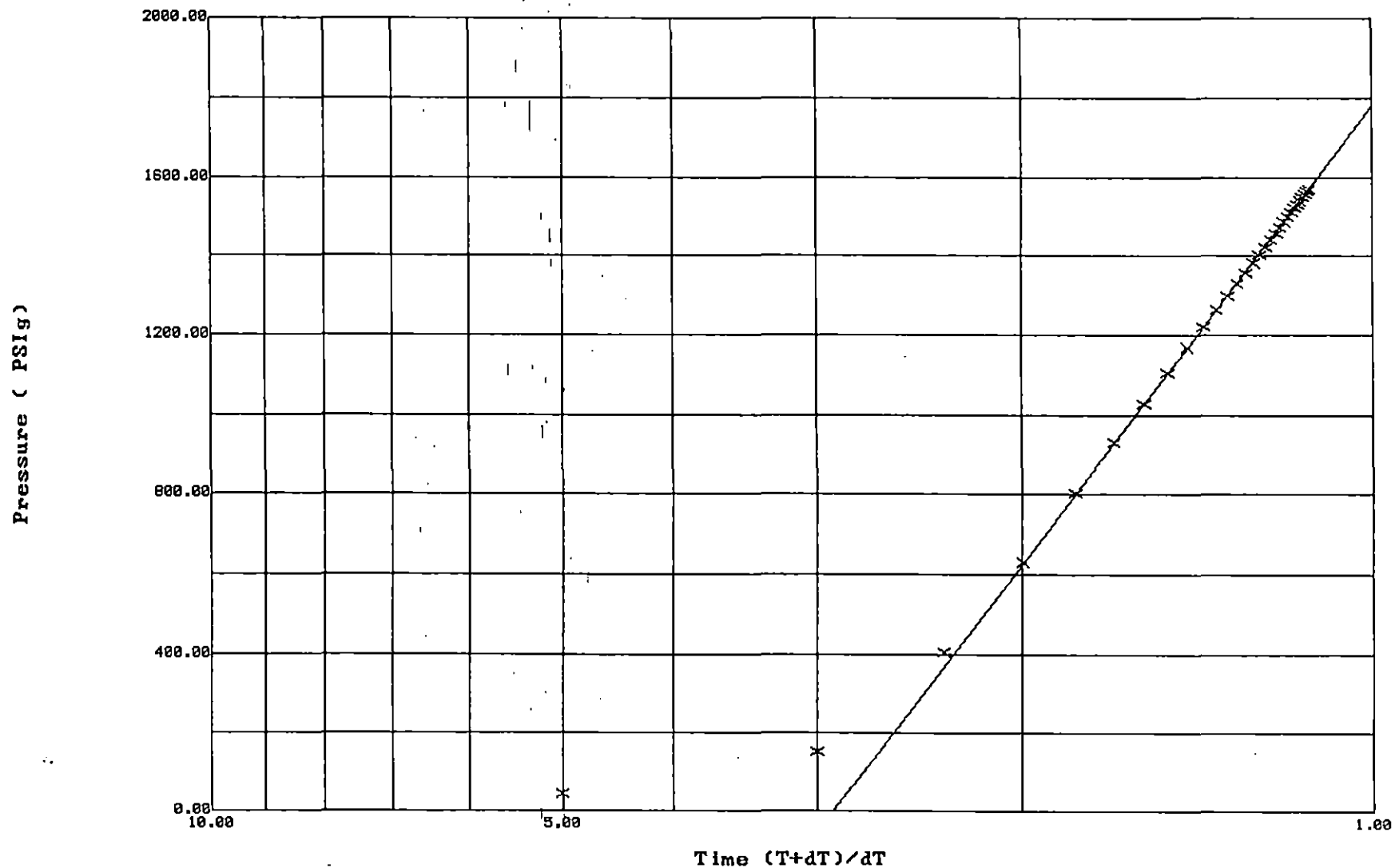
	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	112.00	1232.9	1186.2	133.96	2.1250	1.520
	114.00	1235.4	1188.7	133.97	2.1053	1.526
	116.00	1238.0	1191.3	134.00	2.0862	1.533
	118.00	1240.4	1193.7	134.02	2.0678	1.539
***** End Shut-in 2	120.00	1242.9	1196.1	134.04	2.0500	1.545
***** Final Hydro.	455.00	2533.8	0.0	134.20		

Horner Plot: shut-in #1

8147 DST #1 Tom Smith #1-35 AMOCO

Slope: 3848.9124 PSig/cycle

Ext. Pressure: 1779.4128 PSig

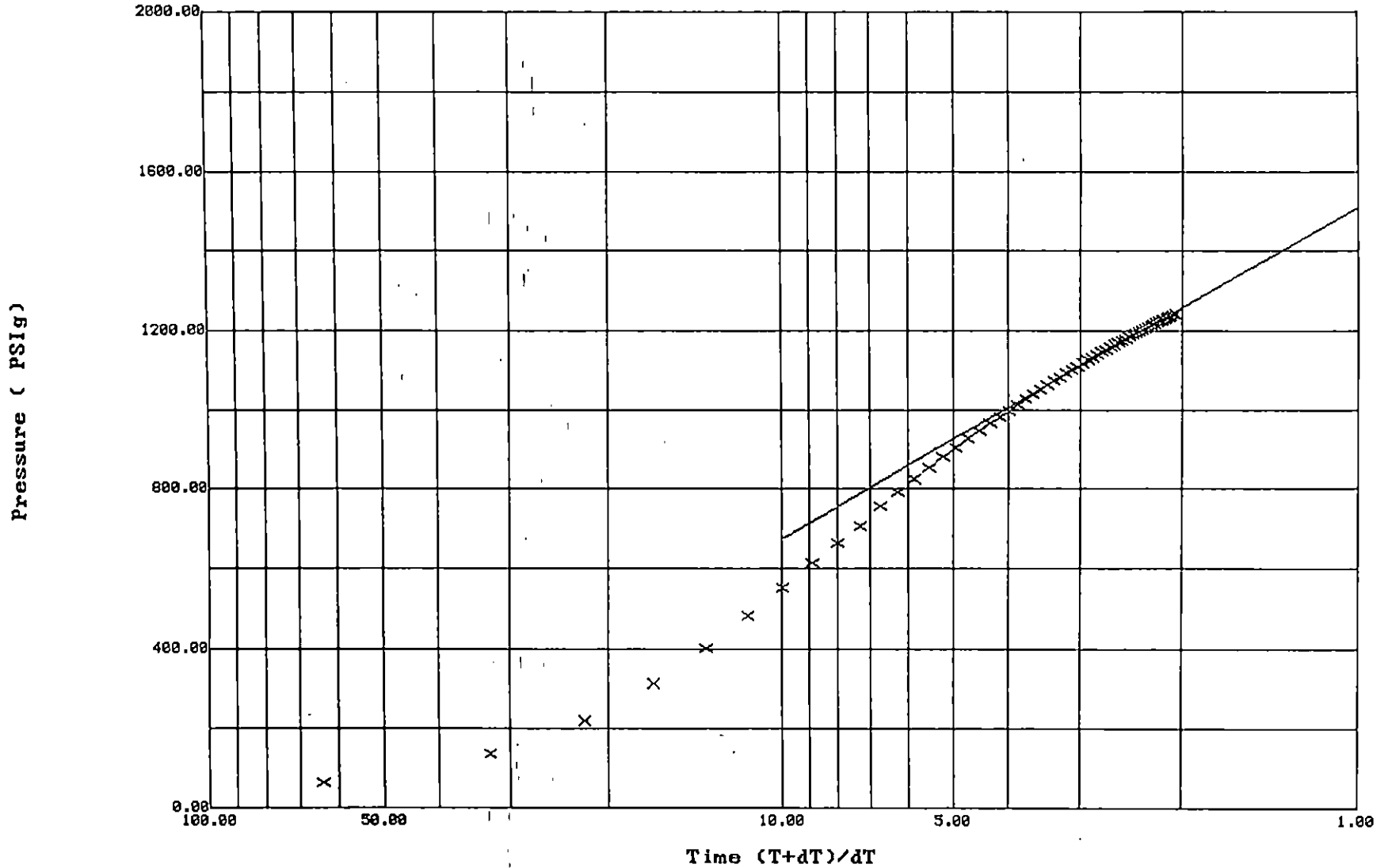


Horner Plot: shut-in #2

8147 DST #1 Tom Smith #1-35 AMOCO

Slope: 834.7253 PSig/cycle

Ext. Pressure: 1509.7861 PSig



TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 8147

Well Name & No. Tom Smith 1-35 Test No. 1 Date 8-4-95
Company Amoco Zone Tested Morrow
Address P.O. Box 800 Room 924 Denver, Co. Elevation 3444 "KB"
Co. Rep./Geo. Chuck Schmoltz cont. Est. Ft. of Pay _____
Location: Sec. 35 Twp. 21 Rge. 39 Co. Hamilton State Ks
No. of Copies _____ Distribution Sheet _____ Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested 5176-5218 Drill Pipe Size 4 1/2 FH
Anchor Length 42 Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth 5176 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth 5218 Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth Loggers - 5434 Drill Collar — 2.25 Ft. Run 542 xH
Mud Wt. 8.9+ lb/gal. Viscosity 61 Filtrate 8.2
Tool Open @ 9:53 AM Initial Blow Steady 1/4" weak blow

Final Blow Blew weak surface blow for 10 sec. - then died

Recovery — Total Feet	Feet of Gas in Pipe	Flush Tool?
Rec. <u>30</u> Feet Of	<u>Drlg Mud</u>	<u>NO</u>
Rec. _____ Feet Of	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of	%gas _____ %oil _____ %water _____ %mud _____	

BHT 124 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 13,200 ppm System

- (A) Initial Hydrostatic Mud 2506-2577 PSI Ak1 Recorder No. 2351 Range 4995
- (B) First Initial Flow Pressure 43 - 23 PSI @ (depth) 5212 w/Clock No. Alpine
- (C) First Final Flow Pressure 53 - 27 PSI AK1 Recorder No. 6730 Range 4200
- (D) Initial Shut-In Pressure 1489 - 1571 PSI @ (depth) 5178 w/Clock No. 26199
- (E) Second Initial Flow Pressure 53 - 30 PSI AK1 Recorder No. 11086 Range 4350
- (F) Second Final Flow Pressure 64 - 46 PSI @ (depth) 5431 w/Clock No. 25114
- (G) Final Shut-In Pressure 1836-1242 PSI Initial Opening 10 Test
- (H) Final Hydrostatic Mud 2502-2533 PSI Initial Shut-In 60 Jars

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF 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.

Final Flow 120 Safety Joint
Final Shut-In 120 Straddle
Circ. Sub NC
Sampler _____
Extra Packer
Other Elec. Rec.

Approved By [Signature]
Our Representative Gary Speer

JOB LOG FORM 2013 R-4

 CUSTOMER Amoco Prod Co WELL NO. 1-35 LEASE Tom Smith JOB TYPE 8 3/4 Surface TICKET NO. 812228

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1600							Time Collected ORIGINAL
	2000							Time Ready
	1915							Time on Loc. work on Pig 260 ^{FT} Drilled
								Start Pumping Casing KCC
	0515							Casing in Hole SEP 13
	0515							Hook up To Circulate Casing CONFIDENTIAL
	0525							Circulate Casing w/ Pig Pump
	0526							Circulate Mud To Ground Level
	0530							Hook up To Pump Truck
	0535							200 Start Mixing Cement
	0545		146.39					200 Start Test Cement
	0553		35.26					250 Finish Mixing Cement
	0554		75.65					0 Shut Down 0 Deep Plug
	0555							75 Start Displacement
			17.3					wash Pumps & Lines
	0600							250/750 Plug Down
								Float Held
								Circulate Cement To The PT
								16 ^{BBL} 2.7 ^{SK}
								RELEASED
								NOV 1 1996
								FROM CONFIDENTIAL
								Thanks For Calling Halliburton Energy Dennis Lopez
								RECEIVED KANSAS CORPORATION COMMISSION
								SEP 18 1995
								CONSERVATION DIVISION WICHITA, KS

*Mid Cont
Lisecah Ks*

WELL DATA

FIELD _____ SEC. **35** TWP. **21^S** RNG. **39^W** COUNTY **HAMILTON** 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		20	8 5/8	KB	307.4	
LINER						
TUBING						
OPEN HOLE			12 1/4 GL	551		SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

ORIGINAL

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE 7-25	DATE 7-25	DATE 7-26	DATE 7-26
TIME 1600	TIME 1915	TIME 0515	TIME 0600

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<i>D. Kere</i>	<i>440041</i>	<i>Lisecah Ks</i>
<i>D. Peacock</i>	<i>59179</i>	<i>"</i>
<i>C. Ashley</i>	<i>44061</i>	<i>Hugertons Ks</i>

RELEASED

KUC

NOV 1 1996

SEP 13

FROM CONFIDENTIAL

CONFIDENTIAL

DEPARTMENT **CEMENT**
 DESCRIPTION OF JOB **8 5/8 SURFACE**

JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.

CUSTOMER REPRESENTATIVE **X**

HALLIBURTON OPERATOR **Dennis Cook** COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	70	MidCont	3#		1/4 #/sq Floccle	3.24	11.1
	150	Premium Flo			2/0 CL 1/4 # Floccle	1.32	14.8

PRESSURES IN PSI

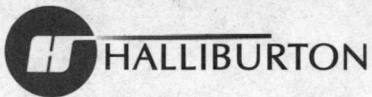
SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____ PRES. U.S.H. BBL.-GAL. _____ TYPE _____
 BREAKDOWN _____ MAXIMUM _____ LOAD & BKDN. BBL.-GAL. _____ PAD: BBL.-GAL. _____
 AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL.-GAL. _____ DISPL.: BBL.-GAL. **17.3**
 SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____ CEMENT SLURRY BBL.-GAL. **7565**
 HYDRAULIC HORSEPOWER _____ TOTAL VOLUME: BBL.-GAL. _____
 ORDERED _____ AVAILABLE _____ USED _____
 AVERAGE RATES IN BPM _____
 TREATING _____ DISPL. _____ OVERALL _____
 CEMENT LEFT IN PIPE _____
 FEET **41 90** REASON **Shoe joint**

CONSERVATION DIVISION
WICHITA, KS

CUSTOMER: *Amoco Production*
 LEASE: *Tom Smith*
 WELL NO.: *1-35*
 JOB TYPE: *8 5/8 Surface*
 DATE: *7-25-95*



HALLIBURTON ENERGY SERVICES

TICKET CONTINUATION

DUNCAN COPY 96

TICKET No. 812228

FORM 1911 R-10

CUSTOMER: Amoco Production; WELL: Tom Smith 1-35; DATE: 7-25-95; PAGE 2 OF 4

Table with columns: PRICE REFERENCE, SECONDARY REFERENCE/PART NUMBER, ACCOUNTING (LOC, ACCT, DF), DESCRIPTION, QTY., U/M, UNIT PRICE, AMOUNT. Includes rows for MIDCON 3, Prax Plus CEMENT, Calcium Chloride, and Floccula. Includes stamps: ORIGINAL, KUC SEP 13 CONFIDENTIAL, RELEASED NOV 1 1996 FROM CONFIDENTIAL, RECEIVED KANSAS CORPORATION COMMISSION SEP 18 1995 CONSERVATION DIVISION WICHITA, KS.

SERVICE CHARGE; CUBIC FEET 239; MILEAGE CHARGE; TOTAL WEIGHT 21398; LOADED MILES 64; TON MILES 684.74; 35 322 65; 95 650 51

No. B 209675

CONTINUATION TOTAL 4181 46



HALLIBURTON ENERGY SERVICES

HAL-1906-N

CHARGE TO: Amoco Production Co.
 ADDRESS:
 CITY, STATE, ZIP CODE:

DUNCAN COPY

TICKET

812228 - X

RELEASED

NOV 1 1996

NO CONFIDENTIAL

PAGE 1 OF 1

SERVICE LOCATIONS: 25540 Kendall Ks
25535 Houston Ks
Duncan OK

WELL/PROJECT NO.: 1-35 Tom Smith
 LEASE: Hamilton
 COUNTY/PARISH: Ks
 STATE: Ks
 CITY/OFFSHORE LOCATION: Loc.
 DATE: 7-25-95
 OWNER: Amoco

TICKET TYPE: SERVICE SALES
 MITROGEN JOB? YES NO
 CONTRACTOR: Chapman Doby
 BIG NAME/NO.:
 SHIPPED VIA:
 DELIVERED TO:
 ORDER NO.:

WELL TYPE: OK 03
 WELL CATEGORY:
 JOB PURPOSE: 010 8 5/8 Prod String
 WELL PERMIT NO.:
 WELL LOCATION: N of Kendall

REFERRAL LOCATION:
 INVOICE INSTRUCTIONS:

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
000-117		1			MILEAGE	192	Miles			2.75	528
001-016		3			Pump charge	307	FT				630
030-018		1			5w Top Pkg	1	Excl	8 5/8		130.00	130
001-018					Additional Hours	2	Hours			235.00	470
24 A	815-19508	1			Insert Float	1	Excl	8 5/8		150.00	150
27	815-19415	1			Fill up	1				NC	NC
40	806-61048	1			Centralizers	3				65.00	195
350	890-10802	1			Hours weld A	1	LB			14.50	14.50

RECEIVED
 KANSAS CORPORATION COMMISSION
 SEP 13
 CONFIDENTIAL
 SEP 18 1995
 CONSERVATION DIVISION
 WICHITA KS

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.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

X Sam Gormack Corp.
 DATE SIGNED: 7-26-95 TIME SIGNED: A.M. P.M.

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

SUB SURFACE SAFETY VALVE WAS:
 PULLED & RETURN PULLED RUN

SURVEY		AGREE	UN-DECIDED	DIS-AGREE
TYPE LOCK	DEPTH			
BEAN SIZE	SPACERS			
TYPE OF EQUALIZING SUB.	CASING PRESSURE			
TUBING SIZE	TUBING PRESSURE			
	WELL DEPTH			
TREE CONNECTION	TYPE VALVE			

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?
 YES NO
 CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL: 2117
 FROM CONTINUATION PAGE(S): 4181
 SUB-TOTAL: 50
 APPLICABLE TAXES WILL BE ADDED ON INVOICE: 46

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): X
 CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE): Dennis Corp
 HALLIBURTON OPERATOR/ENGINEER: 59179
 EMP #: 59179
 HALLIBURTON APPROVAL:

TERMS AND CONDITIONS

For good and valuable consideration received, Customer (as identified on the face of this document) and Halliburton Energy Services, a division of Halliburton Company (hereinafter "Halliburton") agree as follows:

A. **CUSTOMER REPRESENTATION** - Customer warrants that the well is in proper condition to receive the services, equipment, products, and materials to be supplied by Halliburton.

B. **PRICE AND PAYMENT** - The services, equipment, products, and/or materials to be supplied hereunder are priced in accordance with Halliburton's current price list. All prices are exclusive of taxes. If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If Customer has an approved open account, invoices are payable on the twentieth day after the date of invoice. Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.

C. **RELEASE AND INDEMNITY** - CUSTOMER AGREES TO RELEASE HALLIBURTON GROUP FROM ANY AND ALL LIABILITY FOR ANY AND ALL DAMAGES WHATSOEVER TO PROPERTY OF ANY KIND OWNED BY, IN THE POSSESSION OF, OR LEASED BY CUSTOMER AND THOSE PERSONS AND ENTITIES CUSTOMER HAS THE ABILITY TO BIND BY CONTRACT. CUSTOMER ALSO AGREES TO DEFEND, INDEMNIFY, AND HOLD HALLIBURTON GROUP HARMLESS FROM AND AGAINST ANY AND ALL LIABILITY, CLAIMS, COSTS, EXPENSES, ATTORNEY FEES AND DAMAGES WHATSOEVER FOR PERSONAL INJURY, ILLNESS, DEATH, PROPERTY DAMAGE AND LOSS RESULTING FROM:

LOSS OF WELL CONTROL; SERVICES TO CONTROL A WILD WELL WHETHER UNDERGROUND OR ABOVE THE SURFACE; RESERVOIR OR UNDERGROUND DAMAGE, INCLUDING LOSS OF OIL, GAS, OTHER MINERAL SUBSTANCES OR WATER; SURFACE DAMAGE ARISING FROM UNDERGROUND DAMAGE; DAMAGE TO OR LOSS OF THE WELL BORE; SUBSURFACE TRESPASS OR ANY ACTION IN THE NATURE THEREOF; FIRE; EXPLOSION; SUBSURFACE PRESSURE; RADIOACTIVITY; AND POLLUTION AND ITS CLEANUP AND CONTROL.

CUSTOMER'S RELEASE, DEFENSE, INDEMNITY AND HOLD HARMLESS OBLIGATIONS WILL APPLY EVEN IF THE LIABILITY AND CLAIMS ARE CAUSED BY THE SOLE, CONCURRENT, ACTIVE OR PASSIVE NEGLIGENCE, FAULT, OR STRICT LIABILITY OF ONE OR MORE MEMBERS OF THE HALLIBURTON GROUP, THE UNSEAWORTHINESS OF ANY VESSEL OR ANY DEFECT IN THE DATA, PRODUCTS, SUPPLIES, MATERIALS OR EQUIPMENT FURNISHED BY HALLIBURTON GROUP WHETHER IN THE DESIGN, MANUFACTURE, MAINTENANCE OR MARKETING THEREOF OR FROM A FAILURE TO WARN OF SUCH DEFECT. "HALLIBURTON GROUP" IS DEFINED AS HALLIBURTON, ITS PARENT, SUBSIDIARY, AND AFFILIATED COMPANIES AND ITS/THEIR OFFICERS, DIRECTORS, EMPLOYEES, AND AGENTS. CUSTOMER'S RELEASE, DEFENSE, INDEMNITY AND HOLD HARMLESS OBLIGATIONS APPLY WHETHER THE PERSONAL INJURY, ILLNESS, DEATH, PROPERTY DAMAGE OR LOSS IS SUFFERED BY ONE OR MORE MEMBERS OF THE HALLIBURTON GROUP, CUSTOMER, OR ANY OTHER PERSON OR ENTITY AND THE CUSTOMER WILL SUPPORT SUCH OBLIGATIONS ASSUMED HEREIN WITH LIABILITY INSURANCE TO THE MAXIMUM EXTENT ALLOWED BY APPLICABLE LAW.

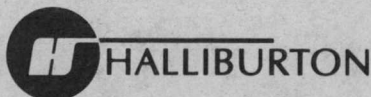
D. **EQUIPMENT LIABILITY** - Customer shall at its risk and expense attempt to recover any Halliburton equipment lost or lodged in the well. If the equipment is recovered and repairable, Customer shall pay the repair costs, unless caused by Halliburton's sole negligence. If the equipment is not recovered or is irreparable, Customer shall pay the replacement cost, unless caused by Halliburton's sole negligence. If a radioactive source becomes lost or lodged in the well, Customer shall meet all requirements of Section 39.15(a) of the Nuclear Regulatory Commission regulations and any other applicable laws or regulations concerning retrieval or abandonment and shall permit Halliburton to monitor the recovery or abandonment efforts all at no risk or liability to Halliburton. Customer shall be responsible for damage to or loss of Halliburton equipment, products, and materials while in transit aboard Customer-supplied transportation, even if such is arranged by Halliburton at Customer's request, and during loading and unloading from such transport. Customer will also pay for the repair or replacement of Halliburton equipment damaged by corrosion or abrasion due to well effluents.

E. **LIMITED WARRANTY** - Halliburton warrants only title to the equipment, products, and materials supplied under this agreement and that same are free from defects in workmanship and materials for one year from date of delivery. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's sole liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale, lease or use of any equipment, products, or materials is expressly limited to the replacement of such on their return to Halliburton or, at Halliburton's option, to the allowance to Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, consequential, or punitive damages. Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, HALLIBURTON IS UNABLE TO GUARANTEE THE EFFECTIVENESS OF THE EQUIPMENT, MATERIALS, OR SERVICE, NOR THE ACCURACY OF ANY CHART INTERPRETATION, RESEARCH ANALYSIS, JOB RECOMMENDATION OR OTHER DATA FURNISHED BY HALLIBURTON. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be liable for and CUSTOMER SHALL INDEMNIFY HALLIBURTON GROUP AGAINST ANY DAMAGES ARISING FROM THE USE OF SUCH INFORMATION, even if such is contributed to by Halliburton's negligence or fault. Halliburton also does not warrant the accuracy of data transmitted by electronic process, and Halliburton will not be responsible for accidental or intentional interception of such data by third parties.

F. **GOVERNING LAW** - The validity, interpretation and construction of this agreement shall be determined by the laws of the jurisdiction where the services are performed or the equipment or materials are delivered.

G. **WAIVER** - Customer agrees to waive the provisions of the Texas Deceptive Trade Practices-Consumer Protection Act or any similar federal or state statute to the extent permitted by law.

H. **MODIFICATIONS** - Customer agrees that Halliburton shall not be bound by any modifications to this agreement, except where such modification is made in writing by a duly authorized executive officer of Halliburton. Requests for modifications should be directed to the Vice President - Legal, 5151 San Felipe, Houston, Texas 77056.



JOB LOG HAL-2013-C

DATE	8-5-95	PAGE NO.	1
TICKET NO.	212016		

CUSTOMER	WELL NO.	LEASE	JOB TYPE
Amoco Prod.	1-35	Tom Smith	P.T.A.

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	20:00							Called out ready 23:00
	23:30							ON LOC Rig Ripping up & L.P.D.P. 1 st Plug 50 SKS @ 2325' KLC
	04:01	3.3	10	X			50	START H ₂ O AHEAD
	04:24	3.5	13.98	X			100	CMT @ 13.4 #/gal
	04:28	3.5	3.5	X			100	START H ₂ O BEHIND
	04:29	5	25.9	X			100	START MID Displacement
	04:34			X			VAC	SHUT DOWN Pull Drill Pipe 2 nd Plug 50 SKS @ 1050'
	05:51	5	10	X			50	START H ₂ O AHEAD
	05:53	3.5	13.98	X			100	CMT @ 13.4 #/gal
	05:57	3.5	3.5	X			50	START H ₂ O BEHIND
	05:58	7.8	7.79	X			50	START MID Displacement
	05:59			X			VAC	SHUT DOWN Pull D.P. 3 rd Plug 50 SKS @ 340'
	06:34	5	25				50	Pump turn Hole with H ₂ O
	06:39	6.9	13.98				50	CMT @ 13.4 #/gal
	06:41	1.4	1.4				50	Displace with H ₂ O
	06:42						VAC	SHUT DOWN Pull D.P.
	07:50		2.79				-0-	Plug SURFACE 10 th @ 40' CMT @ 13.4 #/gal
	08:05		4.2				-0-	Plug RAT CMT @ 13.4 #/gal
	08:10		2.79				-0-	Plug ABOVE CMT @ 13.4 #/gal
	08:10							Job Complete

SEP 13
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ORIGINAL

RELEASED

NOV 1 1996

FROM CONFIDENTIAL

THANK You for Calling
HALLIBURTON
ROBERT & CREW

RECEIVED

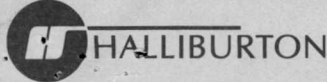
KANSAS CORPORATION COMMISSION

SEP 18 1995

CONSERVATION DIVISION
WICHITA, KS

Time on Loc 9 HRS
Pump Time 49 MIN

CUSTOMER



JOB SUMMARY

HALLIBURTON DIVISION
HALLIBURTON LOCATION

Mid Cont.
Liberal Ks

BILLED ON TICKET NO. *812016*

WELL DATA

FIELD _____ SEC. *33* TWP. *21S* RNG. *39W* COUNTY _____ 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 *D.P.*

COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____

PACKER TYPE _____ SET AT _____

BOTTOM HOLE TEMP. _____ PRESSURE _____

MISC. DATA _____ TOTAL DEPTH *5440*

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING						
LINER						
TUBING	<i>U</i>	<i>16.6</i>	<i>4 1/4</i>	<i>K.B</i>	<i>2325</i>	
OPEN HOLE			<i>7 7/8</i>	<i>6.6</i>	<i>5440</i>	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG		
HEAD		
PACKER		
OTHER		

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <i>8-4-95</i>	DATE <i>8-4-95</i>	DATE <i>8-5-95</i>	DATE <i>8-5-95</i>
TIME <i>20:00</i>	TIME <i>23:30</i>	TIME <i>04:21</i>	TIME <i>08:10</i>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<i>P. Elwood</i>	<i>420041</i>	<i>Liberal Ks</i>
<i>D. 4360</i>	<i>P.U</i>	<i>Liberal Ks</i>
<i>N. Tate</i>	<i>52923</i>	<i>"</i>
<i>L. 0568</i>	<i>75324 (P)</i>	<i>"</i>
<i>D. Corpenning</i>	<i>3625</i>	<i>"</i>
<i>G. 2728</i>	<i>47311</i>	<i>Hopewell Ks</i>

KCC

SEP 13

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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. _____

PERFAC BALLS TYPE _____ QTY. _____

OTHER _____

OTHER _____

DEPARTMENT *SOIL CONT*

DESCRIPTION OF JOB *PTA*

JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.

CUSTOMER REPRESENTATIVE **X** *STEVE BAHN*

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<i>125</i>	<i>60/40 Pz</i>		<i>0</i>	<i>62 GEL</i>	<i>1.57</i>	<i>13.4</i>

NOV 1 1996

RELEASED

FROM CONFIDENTIAL

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____ PRESLUSH: BBL.-GAL. _____ TYPE _____

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

AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL.-GAL. *SEE Job Log* _____ DISPL: BBL.-GAL. _____

SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____ CEMENT SLURRY: BBL.-GAL. _____

HYDRAULIC HORSEPOWER _____ TOTAL VOLUME: BBL.-GAL. _____

ORDERED _____ AVAILABLE _____ USED _____

AVERAGE RATES IN BPM _____

TREATING _____ DISPL. _____ OVERALL _____

CEMENT LEFT IN PIPE _____

FEET _____ REASON _____

REMARKS

PTA, D.S. Given to COMPANY MAN

RECEIVED
KANSAS CORPORATION COMMERCIAL
SEP 18 1995
CONSERVATION DIVISION
WICHITA, KS

CUSTOMER

CUSTOMER *Amco Production*
LEASE *Tom Smith*
WELL NO. *1-35*
JOB TYPE *PTA*
DATE *8-5-95*

TERMS AND CONDITIONS

For good and valuable consideration received, Customer (as identified on the face of this document) and Halliburton Energy Services, a division of Halliburton Company (hereinafter "Halliburton") agree as follows:

A. **CUSTOMER REPRESENTATION** - Customer warrants that the well is in proper condition to receive the services, equipment, products, and materials to be supplied by Halliburton.

B. **PRICE AND PAYMENT** - The services, equipment, products, and/or materials to be supplied hereunder are priced in accordance with Halliburton's current price list. All prices are exclusive of taxes. If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If Customer has an approved open account, invoices are payable on the twentieth day after the date of invoice. Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.

C. **RELEASE AND INDEMNITY** - CUSTOMER AGREES TO RELEASE HALLIBURTON GROUP FROM ANY AND ALL LIABILITY FOR ANY AND ALL DAMAGES WHATSOEVER TO PROPERTY OF ANY KIND OWNED BY, IN THE POSSESSION OF, OR LEASED BY CUSTOMER AND THOSE PERSONS AND ENTITIES CUSTOMER HAS THE ABILITY TO BIND BY CONTRACT. CUSTOMER ALSO AGREES TO DEFEND, INDEMNIFY, AND HOLD HALLIBURTON GROUP HARMLESS FROM AND AGAINST ANY AND ALL LIABILITY, CLAIMS, COSTS, EXPENSES, ATTORNEY FEES AND DAMAGES WHATSOEVER FOR PERSONAL INJURY, ILLNESS, DEATH, PROPERTY DAMAGE AND LOSS RESULTING FROM:

LOSS OF WELL CONTROL; SERVICES TO CONTROL A WILD WELL WHETHER UNDERGROUND OR ABOVE THE SURFACE; RESERVOIR OR UNDERGROUND DAMAGE, INCLUDING LOSS OF OIL, GAS, OTHER MINERAL SUBSTANCES OR WATER; SURFACE DAMAGE ARISING FROM UNDERGROUND DAMAGE; DAMAGE TO OR LOSS OF THE WELL BORE; SUBSURFACE TRESPASS OR ANY ACTION IN THE NATURE THEREOF; FIRE; EXPLOSION; SUBSURFACE PRESSURE; RADIOACTIVITY; AND POLLUTION AND ITS CLEANUP AND CONTROL.

CUSTOMER'S RELEASE, DEFENSE, INDEMNITY AND HOLD HARMLESS OBLIGATIONS WILL APPLY EVEN IF THE LIABILITY AND CLAIMS ARE CAUSED BY THE SOLE, CONCURRENT, ACTIVE OR PASSIVE NEGLIGENCE, FAULT, OR STRICT LIABILITY OF ONE OR MORE MEMBERS OF THE HALLIBURTON GROUP, THE UNSEAWORTHINESS OF ANY VESSEL OR ANY DEFECT IN THE DATA, PRODUCTS, SUPPLIES, MATERIALS OR EQUIPMENT FURNISHED BY HALLIBURTON GROUP WHETHER IN THE DESIGN, MANUFACTURE, MAINTENANCE OR MARKETING THEREOF OR FROM A FAILURE TO WARN OF SUCH DEFECT. "HALLIBURTON GROUP" IS DEFINED AS HALLIBURTON, ITS PARENT, SUBSIDIARY, AND AFFILIATED COMPANIES AND ITS/THEIR OFFICERS, DIRECTORS, EMPLOYEES, AND AGENTS. CUSTOMER'S RELEASE, DEFENSE, INDEMNITY AND HOLD HARMLESS OBLIGATIONS APPLY WHETHER THE PERSONAL INJURY, ILLNESS, DEATH, PROPERTY DAMAGE OR LOSS IS SUFFERED BY ONE OR MORE MEMBERS OF THE HALLIBURTON GROUP, CUSTOMER, OR ANY OTHER PERSON OR ENTITY AND THE CUSTOMER WILL SUPPORT SUCH OBLIGATIONS ASSUMED HEREIN WITH LIABILITY INSURANCE TO THE MAXIMUM EXTENT ALLOWED BY APPLICABLE LAW.

D. **EQUIPMENT LIABILITY** - Customer shall at its risk and expense attempt to recover any Halliburton equipment lost or lodged in the well. If the equipment is recovered and repairable, Customer shall pay the repair costs, unless caused by Halliburton's sole negligence. If the equipment is not recovered or is irreparable, Customer shall pay the replacement cost, unless caused by Halliburton's sole negligence. If a radioactive source becomes lost or lodged in the well, Customer shall meet all requirements of Section 39.15(a) of the Nuclear Regulatory Commission regulations and any other applicable laws or regulations concerning retrieval or abandonment and shall permit Halliburton to monitor the recovery or abandonment efforts all at no risk or liability to Halliburton. Customer shall be responsible for damage to or loss of Halliburton equipment, products, and materials while in transit aboard Customer-supplied transportation, even if such is arranged by Halliburton at Customer's request, and during loading and unloading from such transport. Customer will also pay for the repair or replacement of Halliburton equipment damaged by corrosion or abrasion due to well effluents.

E. **LIMITED WARRANTY** - Halliburton warrants only title to the equipment, products, and materials supplied under this agreement and that same are free from defects in workmanship and materials for one year from date of delivery. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's sole liability and Customer's exclusive remedy in any cause of action, (whether in contract, tort, breach of warranty or otherwise) arising out of the sale, lease or use of any equipment, products, or materials is expressly limited to the replacement of such on their return to Halliburton or, at Halliburton's option, to the allowance to Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, consequential, or punitive damages. Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, HALLIBURTON IS UNABLE TO GUARANTEE THE EFFECTIVENESS OF THE EQUIPMENT, MATERIALS, OR SERVICE, NOR THE ACCURACY OF ANY CHART INTERPRETATION, RESEARCH ANALYSIS, JOB RECOMMENDATION OR OTHER DATA FURNISHED BY HALLIBURTON. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be liable for and CUSTOMER SHALL INDEMNIFY HALLIBURTON GROUP AGAINST ANY DAMAGES ARISING FROM THE USE OF SUCH INFORMATION, even if such is contributed to by Halliburton's negligence or fault. Halliburton also does not warrant the accuracy of data transmitted by electronic process, and Halliburton will not be responsible for accidental or intentional interception of such data by third parties.

F. **GOVERNING LAW** - The validity, interpretation and construction of this agreement shall be determined by the laws of the jurisdiction where the services are performed or the equipment or materials are delivered.

G. **WAIVER** - Customer agrees to waive the provisions of the Texas Deceptive Trade Practices-Consumer Protection Act or any similar federal or state statute to the extent permitted by law.

H. **MODIFICATIONS** - Customer agrees that Halliburton shall not be bound by any modifications to this agreement, except where such modification is made in writing by a duly authorized executive officer of Halliburton. Requests for modifications should be directed to the Vice President - Legal, 5151 San Felipe, Houston, Texas 77056.