ORIGINAL

FORM MUST BE TYPED

SIDE ONE

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

Operator: License # 5988

Name: Halliburton Oil Producing Company

Address 1001 NW 63rd - Suite 250

City/State/Zip Oklahoma City, OK

Purchaser: N/A

Operator Contact Person: Mr. John Clark

Phone (405) 843-0261 ext. 124

Contractor: Name: Duke Drilling Co., Inc.

License: 5929

Wellsite Geologist: Dan Fredlund

Designate Type of Completion
____ New Well ____ Re-Entry ____ Workover

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

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

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

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

04-21-96 Spud Date | 04-26-96 Date Reached TD | 04-26-96 Completion Date

API No. 15- 155-21385 0000

County Reno County, Kansas

SE - SE - NW - ____ Sec. 11 Twp. 25S Rge. 6 E/W

2805 Feet from S/N (circle one) Line of Section

2805 Feet from E/W (circle one) Line of Section

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

Lease Name Haines Well # 1-11

Field Name _____

Producing Formation None

Elevation: Ground 1520' KB _____

Total Depth 3650' PBTD 3650'

Amount of Surface Pipe Set and Cemented at 270' Feet

Multiple Stage Cementing Collar Used? _____ Yes _____ No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan D&A JH 1-27-97
(Data must be collected from the Reserve Pit) AH-1

Chloride content _____ ppm Fluid volume _____ bbls

Dewatering method used _____

Location of fluid disposal if hauled offsite:

Operator Name 6-10-96

Lease Name _____ License No. _____

____ Quarter Sec. ____ Twp. ____ S Rng. ____ E/W

County _____ Docket No. _____

RECEIVED
KANSAS CORP. COMM.
JUN 10 1996

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 _____

Title John S. Clark, P./Operations Date 6-5-96

Subscribed and sworn to before me this 5th day of June 19 96

Notary Public _____

Date Commission Expires 4-1-98

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)

Form ACO-1 (7-91)

SIDE TWO

Operator Name Halliburton Oil Producing Company Lease Name Haines Well # 1-11

Sec. 11 Twp. 25S Rge. 6 ☐ East ☒ West County Reno County, Kansas

ORIGINAL

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.)	☒ Yes	☐ No	☐ Log	Formation (Top), Depth and Datums ☐ Sample
Samples Sent to Geological Survey	☒ Yes	☐ No	Name	Top Datum
Cores Taken	☐ Yes	☒ No		
Electric Log Run (Submit Copy.)	☒ Yes	☐ No		

List All E.Logs Run: DUAL-SPACED NEUTRON
DUAL INDUCTION LATEROLOG

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	12-1/4"	8-5/8"	28#	270	60/40 Poz	185	3%cc 2%gel

RECEIVED
KANSAS CORP. COM.
JUN 10 AM 11:40

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top	Depth Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
___ Perforate					
___ Protect Casing					
___ Plug Back TD					
___ 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

TUBING RECORD	Size	Set At	Packer At	Liner Run ☐ Yes ☐ No

Date of First, Resumed Production, SWD or Inj.	Producing Method ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (Explain)
D&A	

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

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

METHOD OF COMPLETION ☐ Open Hole ☐ Perf. ☐ Dually Comp. ☐ Commingled ☐

Production Interval

ORIGINAL

WELL NAME: Haines #1
OPERATOR: Halliburton Oil Producing Co
LOCATION: Sec 11 Twp 25S Rge 6W
Reno County Kansas
DATE: 04/27/96

15-155-21385

TRILOBITE TESTING L.L.C.

OPERATOR : Halliburton Oil Prod. DATE 4-27-96
WELL NAME: Haines #1 KB 1522.00 ft TICKET NO: 8955 DST #1
LOCATION : 11-25S-6W, Reno Cty KS GR 1514.00 ft FORMATION: MISS.
INTERVAL : 3525.00 To 3554.00 ft TD 3554.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4
PF 30	Rec.	10248	10248	2351		
SI 30	Range(Psi)	4400.0	4400.0	4995.0	0.0	0.0
SF 60	Clock(hrs)	AK-1	AK-1	Alpin		
FS 60	Depth(ft)	3551.0	3551.0	3530.0	0.0	0.0

TIME DATA----------
PF Fr. 0351 to 0421 hr
IS Fr. 0421 to 0451 hr
SF Fr. 0451 to 0551 hr
FS Fr. 0551 to 0651 hr

	Field	1	2	3	4
A. Init Hydro	1766.0	1769.0	1778.0	0.0	0.0
B. First Flow	30.0	55.0	40.0	0.0	0.0
B1. Final Flow	37.0	60.0	50.0	0.0	0.0
C. In Shut-in	802.0	806.0	811.0	0.0	0.0
D. Init Flow	46.0	74.0	50.0	0.0	0.0
E. Final Flow	85.0	91.0	80.0	0.0	0.0
F. Fl Shut-in	811.0	819.0	821.0	0.0	0.0
G. Final Hydro	1723.0	1734.0	1719.0	0.0	0.0
Inside/Outside	O	O	I		

T STARTED 0217 hr
T ON BOTM 0348 hr
T OPEN 0351 hr
T PULLED 0651 hr
T OUT 0855 hr

RECOVERY
Tot Fluid 150.00 ft of 0.00 ft in DC and 150.00 ft in DP
525.00 ft of Gas in pipe
25.00 ft of Gassy oil cut mud - 15% gas, 25% oil, 60% mud
62.00 ft of Oil cut watery mud - 4% oil, 66% water, 30% mud
63.00 ft of Muddy water w/oil specks - 75% water, 25% mud

10.00 ft of Pay (est)

SALINITY 88000.00 P.P.M. A.P.I. Gravity 0.00

TOOL DATA----------

Tool Wt.	2100.00 lbs
Wt Set On Packer	20000.00 lbs
Wt Pulled Loose	46000.00 lbs
Initial Str Wt	39000.00 lbs
Unseated Str Wt	40500.00 lbs
Bot Choke	0.75 in
Hole Size	7.88 in
D Col. ID	2.25 in
D. Pipe ID	3.80 in
D.C. Length	0.00 ft
D.P. Length	3525.00 ft

BLOW DESCRIPTION
Initial Flow -
Fair to strong blow, bottom of bucket in 25 min

Final Flow -
Fair to strong blow, bottom of bucket in 17 min

MUD DATA----------

Mud Type	CHEMICAL
Weight	9.40 lb/c
Vis.	47.00 S/L
W.L.	12.00 in3
F.C.	0.20 in
Mud Drop	N
Amt. of fill	0.00 ft
Btm. H. Temp.	114.00 F
Hole Condition	GOOD
% Porosity	10.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00 N
Cushion Type	NONE
Reversed Out	N
Tool Chased	N
Tester	GARY PEVOTEAUX
Co. Rep.	DAN FREDLUND
Contr.	DUKE DRLG.
Rig #	2
Unit #	
Pump T.	

SAMPLES:
SENT TO:

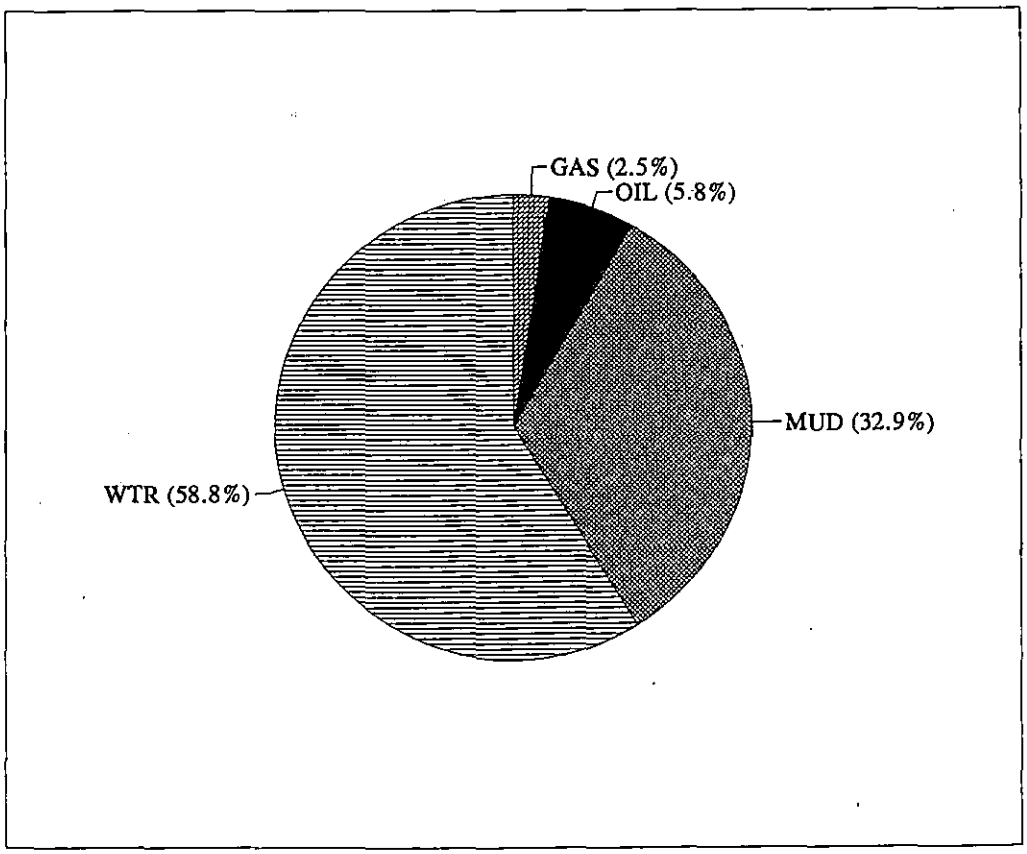
Test Successful: Y

CALCULATED RECOVERY ANALYSIS - DRILL PIPE

DST # 1 TICKE 8955

SAMPL #	TOTAL FEET	GAS %	FEET	OIL %	FEET	%	WATE FEET	MUD %	FEET
1	25	15	3.75	25	6.25		0	60	15
2	62		0	4	2.48	66	40.92	30	18.6
3	63		0		0	75	47.25	25	15.8
4			0		0		0		0
5			0		0		0		0
6			0		0		0		0
TOTAL	150	2.5	3.75	5.82	8.73	58.78	88.17	32.9	49.4

			HRS O	BBL/DAY
BBL OIL=	0.1241	*	1.5	1.99
BBL WATER=	1.2538	*		20.1
BBL MUD=	0.7018			
BBL GAS	0.0533			



TEST HISTORY

8955 DST#1 HAINES#1 HALLIBURTON OIL PRODUCING CO.

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	1777.67
B:	0.00	39.61
C:	26.00	49.68
D:	31.00	811.07
E:	0.00	50.01
F:	59.00	79.97
G:	61.00	821.14
Q:	0.00	1719.08

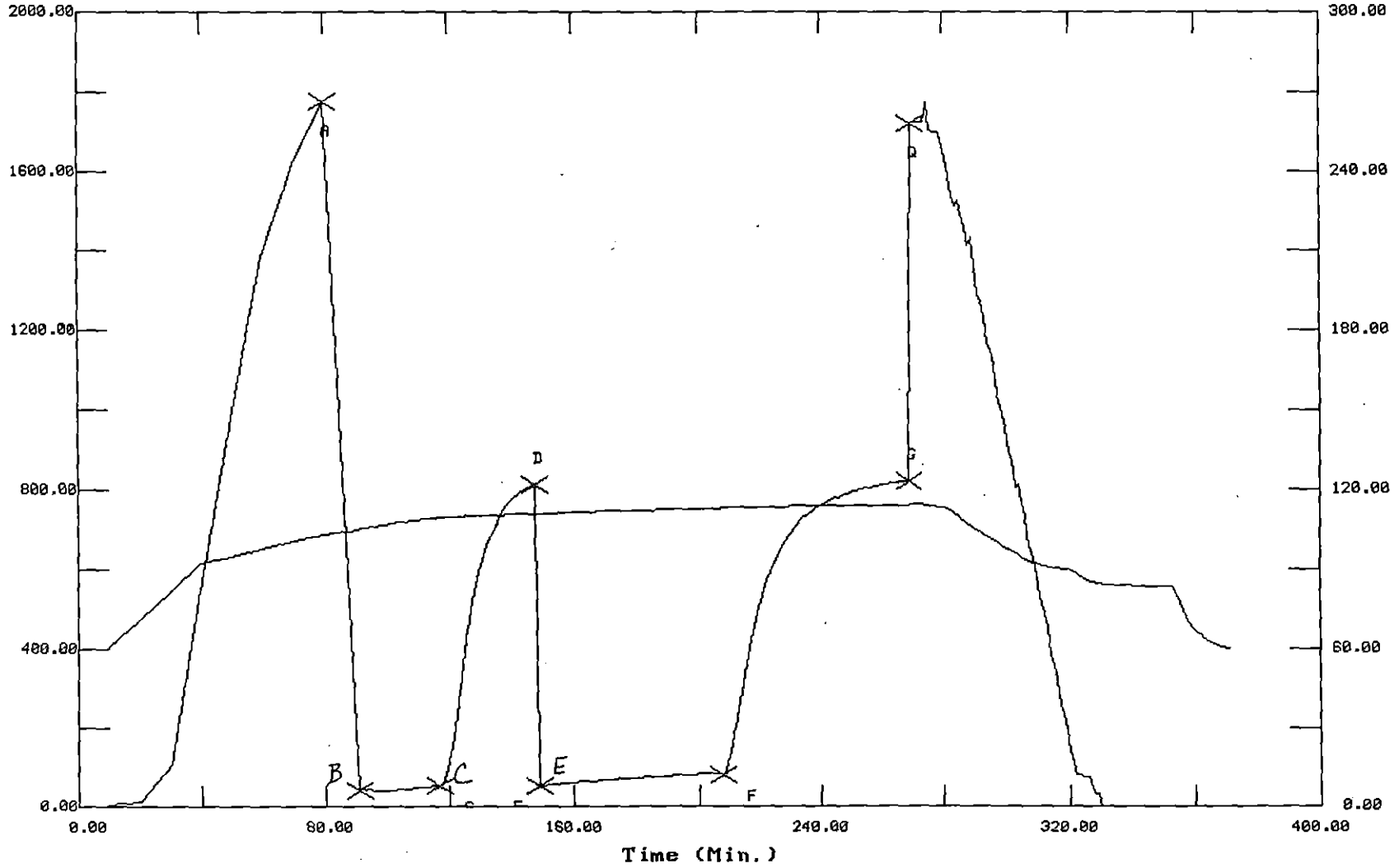
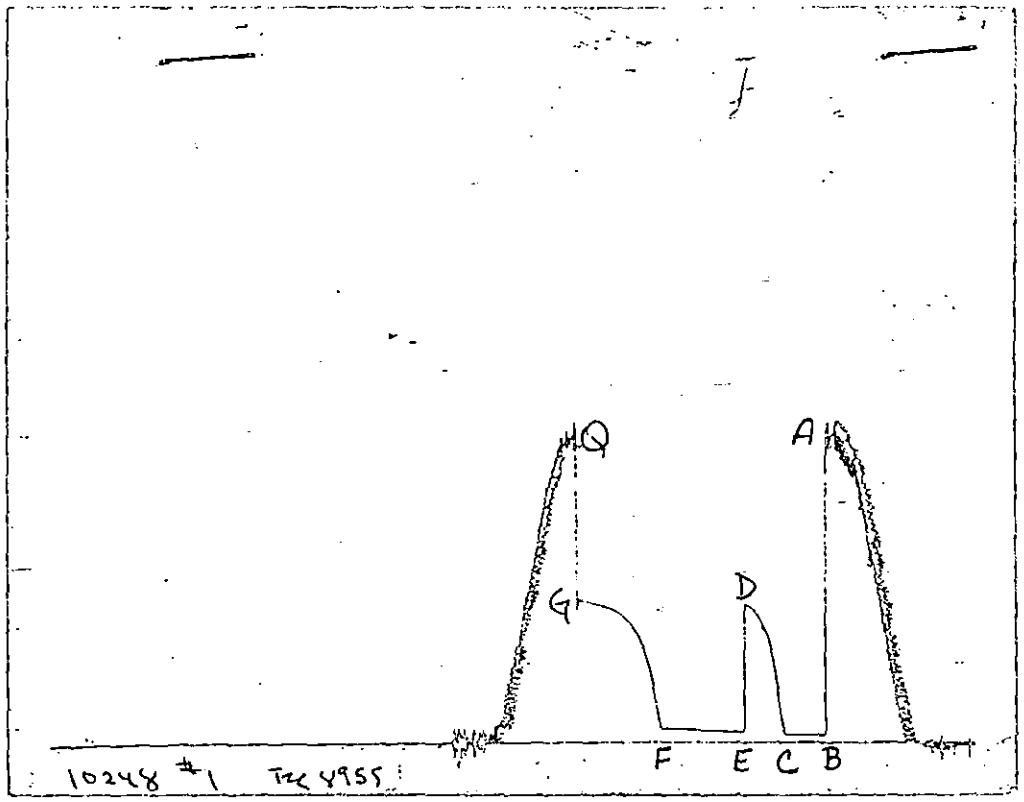


CHART PAGE



This is a photocopy of the actual AK-1 recorder chart

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING
TEST: 8955 DST#1 HAINES#1 HALLIBURTON OIL PRODUCING CO.
DATE: 04/27/96 TIME: 02:17:56

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
****** Initial Hydro.	80.00	1777.7	0.0	103.20		
****** Start Flow 1	0.00	39.6	0.0	105.20		
	1.00	46.4	6.8	105.34		
	2.00	39.6	0.0	105.50		
	3.00	43.9	4.3	105.65		
	4.00	38.4	-1.2	105.83		
	5.00	36.9	-2.7	106.06		
	6.00	37.4	-2.2	106.30		
	7.00	37.8	-1.8	106.53		
	8.00	38.2	-1.4	106.75		
	9.00	38.7	-0.9	106.97		
	10.00	39.3	-0.3	107.16		
	11.00	39.9	0.3	107.33		
	12.00	40.4	0.8	107.49		
	13.00	41.2	1.6	107.64		
	14.00	41.8	2.2	107.77		
	15.00	42.4	2.8	107.91		
	16.00	43.1	3.5	108.06		
	17.00	44.0	4.4	108.24		
	18.00	44.6	5.0	108.44		
	19.00	45.4	5.8	108.62		
	20.00	46.2	6.5	108.79		
	21.00	46.7	7.1	108.93		
	22.00	47.3	7.7	109.06		
	23.00	47.9	8.3	109.18		
	24.00	48.7	9.1	109.28		
	25.00	49.0	9.4	109.38		
****** End Flow 1	26.00	49.7	10.1	109.47		
****** Start Shutin 1	0.00	49.7	0.0	109.47	0.0000	0.002
	1.00	57.8	8.1	109.55	27.0000	0.003
	2.00	82.5	32.8	109.63	14.0000	0.007
	3.00	113.9	64.2	109.70	9.6667	0.013
	4.00	154.0	104.3	109.77	7.5000	0.024
	5.00	202.9	153.3	109.83	6.2000	0.041
	6.00	263.4	213.7	109.88	5.3333	0.069
	7.00	330.2	280.5	109.94	4.7143	0.109
	8.00	395.0	345.4	109.99	4.2500	0.156
	9.00	450.7	401.0	110.05	3.8889	0.203
	10.00	500.1	450.4	110.11	3.6000	0.250
	11.00	542.4	492.7	110.17	3.3636	0.294
	12.00	578.8	529.2	110.22	3.1667	0.335
	13.00	610.0	560.3	110.27	3.0000	0.372
	14.00	636.3	586.7	110.31	2.8571	0.405
	15.00	658.8	609.1	110.36	2.7333	0.434
	16.00	677.9	628.2	110.41	2.6250	0.460
	17.00	694.2	644.5	110.45	2.5294	0.482
	18.00	708.3	658.6	110.49	2.4444	0.502
	19.00	722.5	672.8	110.52	2.3684	0.522
	20.00	740.0	690.3	110.55	2.3000	0.548
	21.00	752.0	702.3	110.60	2.2381	0.565
	22.00	761.8	712.1	110.62	2.1818	0.580

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING
TEST: 8955 DST#1 HAINES#1 HALLIBURTON OIL PRODUCING CO.
DATE: 04/27/96 TIME: 02:17:56

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	23.00	770.3	720.6	110.66	2.1304	0.593
	24.00	777.6	727.9	110.69	2.0833	0.605
	25.00	784.0	734.3	110.72	2.0400	0.615
	26.00	789.7	740.0	110.74	2.0000	0.624
	27.00	795.0	745.3	110.77	1.9630	0.632
	28.00	799.7	750.0	110.80	1.9286	0.639
	29.00	803.8	754.1	110.83	1.8966	0.646
	30.00	807.6	758.0	110.85	1.8667	0.652
***** End Shut-in 1	31.00	811.1	761.4	110.89	1.8387	0.658
***** Start Flow 2	0.00	50.0	0.0	110.89		
	1.00	51.1	1.1	110.93		
	2.00	52.3	2.3	110.97		
	3.00	53.5	3.4	111.01		
	4.00	54.4	4.4	111.07		
	5.00	55.5	5.5	111.12		
	6.00	56.1	6.1	111.18		
	7.00	56.9	6.9	111.24		
	8.00	57.8	7.8	111.29		
	9.00	58.5	8.5	111.35		
	10.00	59.2	9.1	111.40		
	11.00	59.8	9.8	111.45		
	12.00	60.3	10.2	111.50		
	13.00	61.1	11.1	111.55		
	14.00	61.8	11.7	111.59		
	15.00	62.3	12.3	111.64		
	16.00	62.7	12.7	111.68		
	17.00	63.7	13.7	111.73		
	18.00	63.9	13.9	111.77		
	19.00	64.8	14.8	111.81		
	20.00	65.4	15.4	111.85		
	21.00	66.0	15.9	111.89		
	22.00	66.6	16.6	111.92		
	23.00	67.0	17.0	111.96		
	24.00	67.7	17.7	111.99		
	25.00	68.1	18.1	112.03		
	26.00	68.6	18.6	112.06		
	27.00	69.1	19.1	112.09		
	28.00	69.7	19.6	112.12		
	29.00	70.3	20.3	112.15		
	30.00	70.7	20.6	112.17		
	31.00	71.1	21.1	112.21		
	32.00	71.6	21.6	112.24		
	33.00	71.9	21.9	112.26		
	34.00	72.7	22.7	112.30		
	35.00	73.1	23.1	112.32		
	36.00	73.5	23.5	112.36		
	37.00	73.9	23.9	112.38		
	38.00	74.5	24.5	112.42		
	39.00	74.7	24.7	112.44		
	40.00	75.4	25.3	112.47		
	41.00	75.9	25.8	112.50		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING
TEST: 8955 DST#1 HAINES#1 HALLIBURTON OIL PRODUCING CO.
DATE: 04/27/96 TIME: 02:17:56

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	42.00	76.2	26.2	112.53		
	43.00	76.7	26.7	112.56		
	44.00	77.4	27.4	112.58		
	45.00	77.7	27.7	112.61		
	46.00	78.3	28.3	112.64		
	47.00	78.8	28.8	112.66		
	48.00	79.1	29.0	112.69		
	49.00	79.8	29.8	112.72		
	50.00	80.1	30.1	112.75		
	51.00	80.6	30.5	112.78		
	52.00	81.1	31.1	112.81		
	53.00	81.6	31.6	112.84		
	54.00	82.0	32.0	112.87		
	55.00	82.4	32.4	112.90		
	56.00	82.7	32.7	112.93		
	57.00	83.2	33.2	112.96		
	58.00	83.5	33.5	112.99		
****** End Flow 2	59.00	80.0	30.0	113.02		
****** Start Shutin 2	0.00	80.0	0.0	113.02	0.0000	0.006
	1.00	95.3	15.4	113.06	86.0000	0.009
	2.00	125.3	45.3	113.09	43.5000	0.016
	3.00	160.5	80.5	113.11	29.3333	0.026
	4.00	200.9	120.9	113.14	22.2500	0.040
	5.00	245.4	165.4	113.18	18.0000	0.060
	6.00	292.1	212.1	113.21	15.1667	0.085
	7.00	338.4	258.4	113.23	13.1429	0.115
	8.00	381.8	301.8	113.27	11.6250	0.146
	9.00	421.7	341.8	113.30	10.4444	0.178
	10.00	457.9	377.9	113.33	9.5000	0.210
	11.00	490.5	410.6	113.36	8.7273	0.241
	12.00	519.9	439.9	113.39	8.0833	0.270
	13.00	546.3	466.3	113.42	7.5385	0.298
	14.00	570.2	490.2	113.45	7.0714	0.325
	15.00	591.4	511.5	113.47	6.6667	0.350
	16.00	610.9	530.9	113.50	6.3125	0.373
	17.00	628.3	548.3	113.52	6.0000	0.395
	18.00	644.0	564.0	113.54	5.7222	0.415
	19.00	658.2	578.2	113.56	5.4737	0.433
	20.00	671.0	591.0	113.58	5.2500	0.450
	21.00	682.6	602.6	113.61	5.0476	0.466
	22.00	693.1	613.1	113.62	4.8636	0.480
	23.00	702.7	622.7	113.64	4.6957	0.494
	24.00	711.5	631.6	113.65	4.5417	0.506
	25.00	719.4	639.4	113.68	4.4000	0.518
	26.00	726.8	646.8	113.68	4.2692	0.528
	27.00	733.4	653.4	113.71	4.1481	0.538
	28.00	739.6	659.6	113.71	4.0357	0.547
	29.00	745.2	665.2	113.73	3.9310	0.555
	30.00	750.4	670.4	113.74	3.8333	0.563
	31.00	755.3	675.3	113.76	3.7419	0.570
	32.00	759.7	679.7	113.77	3.6562	0.577

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8955 DST#1 HAINES#1 HALLIBURTON OIL PRODUCING CO.

DATE: 04/27/96 TIME: 02:17:56

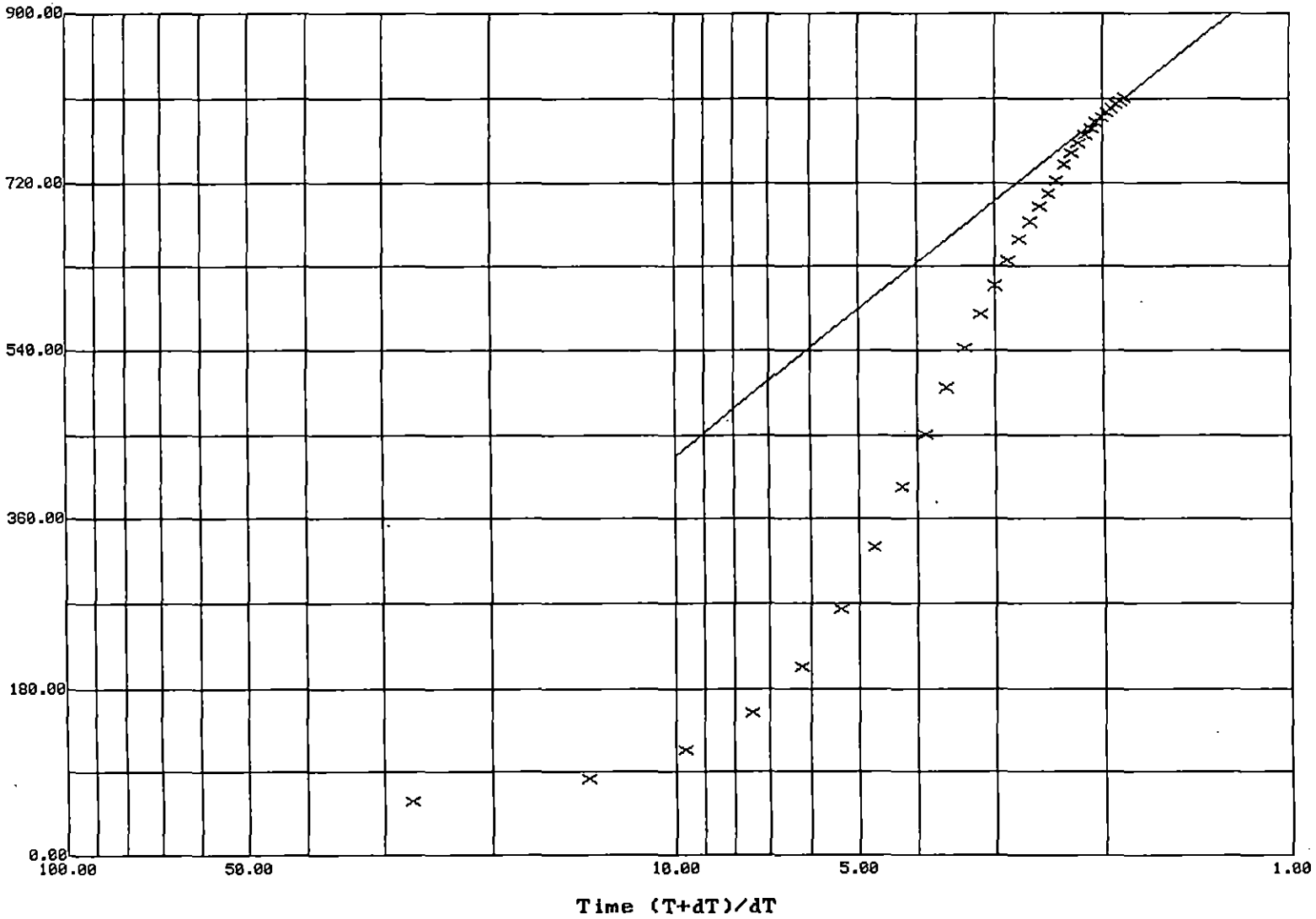
	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	33.00	763.9	683.9	113.78	3.5758	0.584
	34.00	767.8	687.8	113.79	3.5000	0.589
	35.00	771.4	691.4	113.81	3.4286	0.595
	36.00	774.8	694.8	113.81	3.3611	0.600
	37.00	778.1	698.1	113.83	3.2973	0.605
	38.00	781.0	701.0	113.84	3.2368	0.610
	39.00	784.0	704.0	113.85	3.1795	0.615
	40.00	786.6	706.6	113.87	3.1250	0.619
	41.00	789.1	709.1	113.89	3.0732	0.623
	42.00	791.5	711.5	113.91	3.0238	0.626
	43.00	793.7	713.7	113.93	2.9767	0.630
	44.00	796.0	716.0	113.95	2.9318	0.634
	45.00	798.0	718.0	113.96	2.8889	0.637
	46.00	799.9	719.9	113.98	2.8478	0.640
	47.00	801.8	721.8	113.99	2.8085	0.643
	48.00	803.6	723.6	114.01	2.7708	0.646
	49.00	805.4	725.4	114.03	2.7347	0.649
	50.00	806.9	726.9	114.04	2.7000	0.651
	51.00	808.6	728.6	114.06	2.6667	0.654
	52.00	810.0	730.0	114.07	2.6346	0.656
	53.00	811.5	731.5	114.09	2.6038	0.659
	54.00	812.8	732.9	114.10	2.5741	0.661
	55.00	814.2	734.2	114.12	2.5455	0.663
	56.00	815.4	735.5	114.13	2.5179	0.665
	57.00	816.7	736.7	114.14	2.4912	0.667
	58.00	817.9	737.9	114.15	2.4655	0.669
	59.00	819.0	739.1	114.17	2.4407	0.671
	60.00	820.2	740.2	114.18	2.4167	0.673
***** End Shut-in 2	61.00	821.1	741.2	114.19	2.3934	0.674
***** Final Hydro.	270.00	1719.1	0.0	114.23		

Horner Plot: shut-in #1

8955 DST#1 HAINES#1 HALLIBURTON OIL PRODUCING CO.

Slope: 523.2318 PSIg/cycle

Ext. Pressure: 949.4656 PSIg

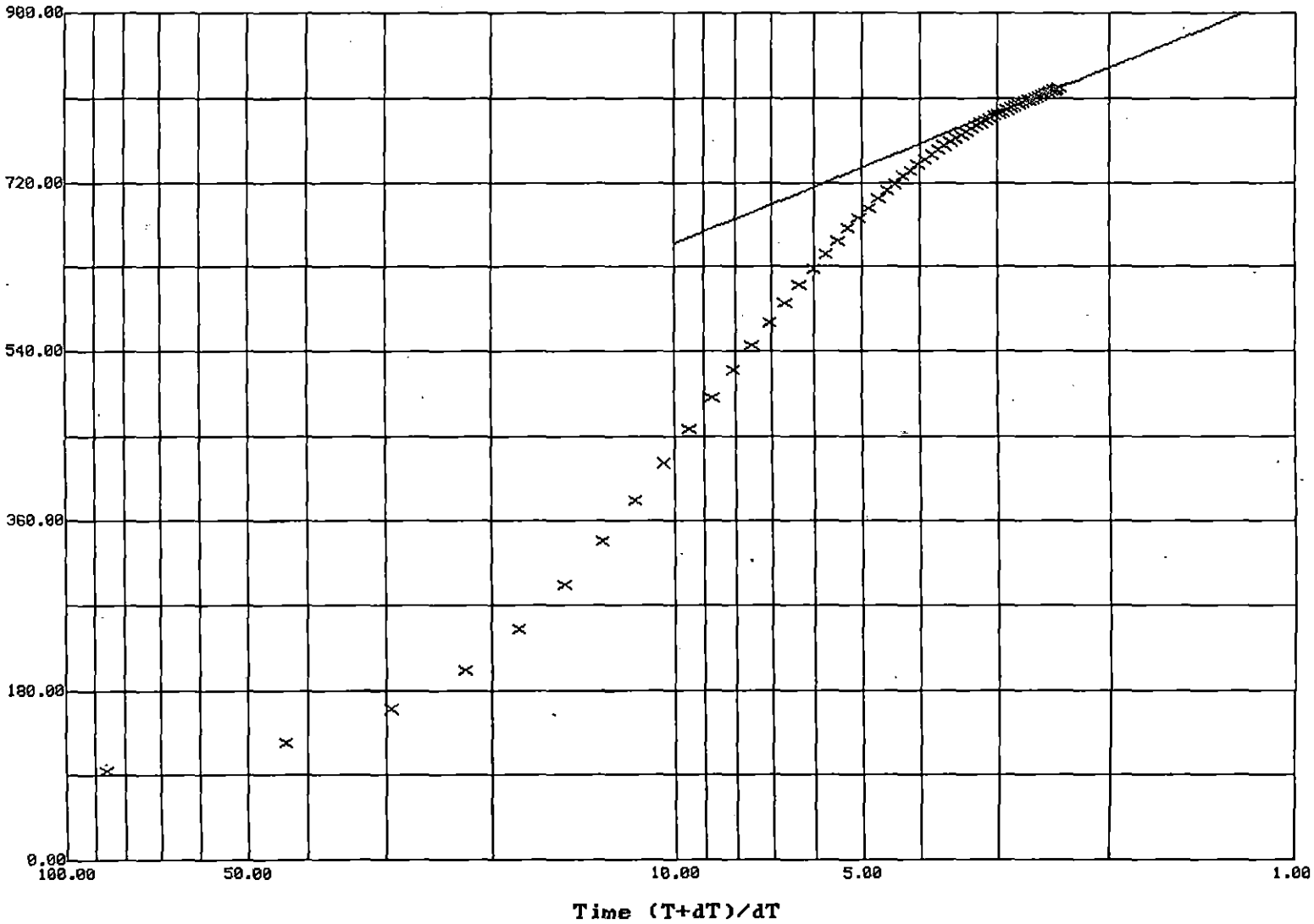


Horner Plot: shut-in #2

8955 DST#1 HAINES#1 HALLIBURTON OIL PRODUCING CO.

Slope: 268.6209 PSIg/cycle

Ext. Pressure: 923.1157 PSIg



*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Haines #1

LOCATION : 11-25S-6W, Reno Cty KS

TICKET No. 8955 D.S.T. No. 1 DATE 4-27-96

TOTAL TOOL TO BOTTOM OF TOP PACKERS 25

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR 29

TOTAL TOOL 54

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 54

D.C. ABOVE TOOLS.Stands 0 Single 0 Total

D.P. ABOVE TOOLS.Stands 57 Single 0 Total 3525

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3579

TOTAL DEPTH 3554

TOTAL DRILL PIPE ABOVE K.B. 25

REMARKS:

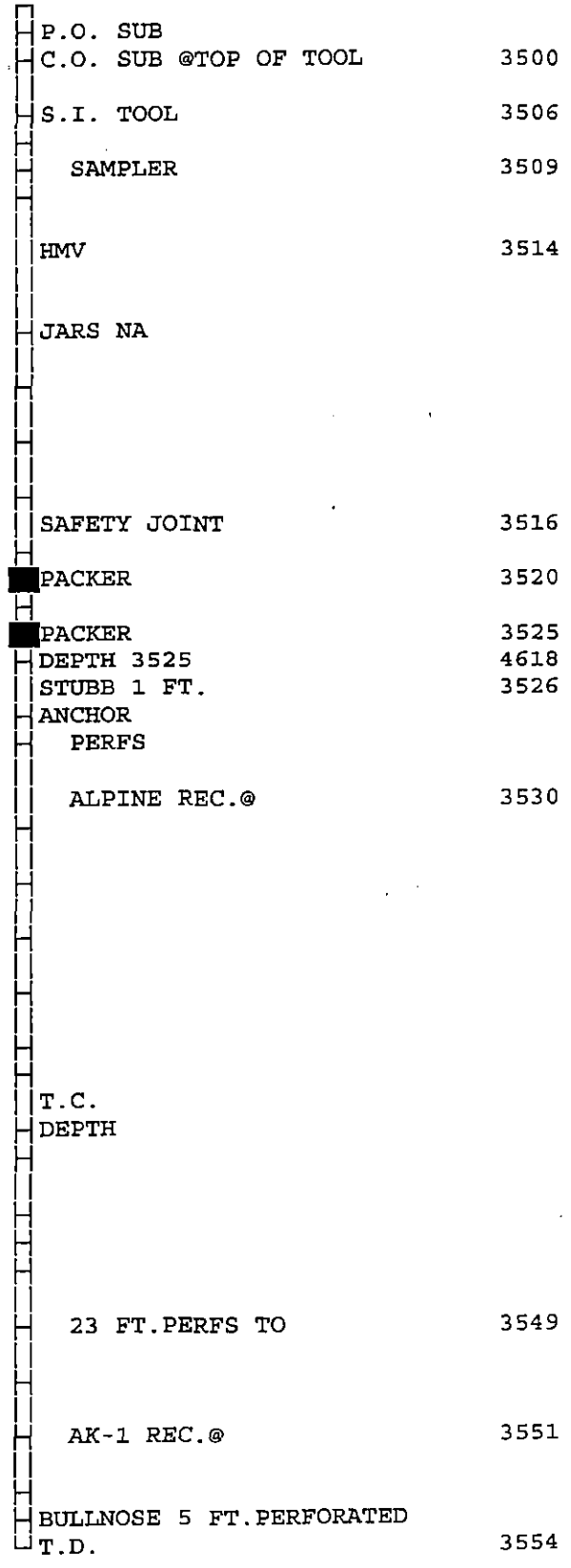
FLUID SAMPLER DATA

SAMPLER RECOVERY -
Gas trace, oil 240 ml, Mud 480 ml,
Water 1680 ml, Pressure 90 PSI, Ttl 4000 ml

SAMPLER ANALYSIS -
Resist .13 ohms @ 60 F, Chlorides 88000 ppm

PIT MUD ANALYSIS -
Chlorides 8000 ppm, Resist 4.04 ohms @ 68 F

PIPE RECOVERY -
Middle & Bottom
Resist .13 ohms @ 60 F, Chlorides 88000 ppm



LOCATION CODE: _____

COMPANY CODE: _____

LOGGING/PERFORATING JOB SUMMARY FORM 4009

1. CUSTOMER	2. WELL NAME AND NUMBER	3. TICKET NUMBER
Halliburton O.I. Products Co.	HAINES #1	952179-9

WELL DATA

4. MAXIMUM SERV. DEPTH	5. CASING DEPTH	6. CASING SIZE	WEIGHT	GRADE	7. TUBING DEPTH	8. TUBING SIZE	WEIGHT	GRADE	9. BIT SIZE
3650	270	9.625							7.975

10. MUD WEIGHT & RESISTIVITY @ BHT	11. MUD TYPE & CHLORIDES (ppm)	12. WELL PRESSURE	13. BOTTOM HOLE TEMP	14. HOLE TYPE	15. DRILLERS DEPTH
9.4 0.35@116	FM (14000)	☒ PSI ☐ KPa 0	☒ F° ☐ C° 116	☒ OH ☐ CH	3650

16. WELL DEVIATION	DEVIATED HOLES	17. DEV. AT TD	18. MAX. DEV.	19. MAX BEND °/100'	20. KICKOFF DEPTH	21. MEAS. DEPTH	22. TVD
☒ VERTICAL ☐ HORIZONTAL ☐ DIRECTIONAL							

TIME SUMMARY

23. DATE & TIME CREW NOTIFIED	24. DATE & TIME ARRIVE SHOP	25. DATE & TIME LEAVE SHOP/DOCK	26. DATE & TIME ARRIVE LOCATION	27. DATE & TIME REQUESTED ON LOCATION/DOCK	28. DATE & TIME BEGIN WAITING	29. DATE & TIME END WAITING
4/27/96 1430	4/27/96 1500	4/27/96 1530	4/27/96 1700	4/27/96 1730	4/27/96 1730	4/27/96 1915

30. DATE & TIME RIG UP	31. DATE & TIME START RIG DOWN	32. DATE & TIME LEAVE LOCATION	33. DATE & TIME RETURN SHOP/DOCK	34. LOST TIME	35. OPERATING TIME	36. SHOP-TO-SHOP/ DOCK-TO-DOCK TIME
4/27/96 1915	4/27/96 2130	4/27/96 2300	4/28/96 0130	0 hrs	3.25 hrs	10.5

37. # OF SERVICE W/FAILURE	38. TOTAL SERVICES RUN	MARINE - STANDBY OR WAITING	39. HALLIBURTON LIFT BOAT	40. HALLIBURTON TRUCK	41. HALLIBURTON CREW	MARINE - TRAVEL TIME	42. HALLIBURTON LIFT BOAT	43. HALLIBURTON TRUCK	44. HALLIBURTON CREW
0	4								

CORES & FORMATION RECOVERY

45. # CORES REQUESTED	46. # CORES ATTEMPTED	47. # CORES RECOVERED	48. # OF PULL-OFFS	49. MAXIMUM FORM PRESSURE	50. MAXIMUM PRESSURE HYDROSTATIC

51. # OF SETS	52. # PRESSURE TESTS	53. # FLUID SAMPLES	54. # OF MUD SETS	55. # TIGHT TESTS	

PERFORATING & AUXILIARY SERVICES

56. TYPE CARRIER	57. CARRIER DIAMETER	58. CHARGE TYPE	59. PHASING	60. GUN POSITION	61. # OF SELECT FIRES

62. HOLES/FOOT	63. # OF CARRIERS	64. # CHARGE FAILURES	65. PLUG/PACKER TYPE	66. GAUGE RING SIZE	67. SET TOOL TYPE

68. SET TOOL SIZE	69. JUNK BASKET SIZE	70. DUMP BAILER SIZE	71. TOTAL CEM. HEIGHT	72. TUBING PUNCH SIZE	73. JET/CHEMICAL CUTTER SIZE	FREEPOINT/ BACKOFF	74. FREEPOINT DEPTH	75. # OF SHOTS

TOOLS TAKEN TO LOCATION/NOT USED/ AUXILARY/FAILURES

76. TOOL/SERIAL #	77. TOOL/SERIAL #	78. TOOL/SERIAL #	79. TOOL/SERIAL #	80. TOOL/SERIAL #	81. TOOL/SERIAL #	82. TOOL/SERIAL #	83. TOOL/SERIAL #
102694 ☒ F ☐ A ☐ N.U.	D7215 ☐ F ☒ A ☐ N.U.	114763 ☐ F ☐ A ☒ N.U.	101944 ☐ F ☐ A ☒ N.U.	67318 ☐ F ☐ A ☒ N.U.	☐ F ☐ A ☐ N.U.	☐ F ☐ A ☐ N.U.	☐ F ☐ A ☐ N.U.
84. TOOL/SERIAL #	**85. TOOL/SERIAL #**	**86. TOOL/SERIAL #**	**87. TOOL/SERIAL #**	**88. TOOL/SERIAL #**	**89. TOOL/SERIAL #**	**90. TOOL/SERIAL #**	**91. TOOL/SERIAL #**
☐ F ☐ A ☐ N.U.	☐ F ☐ A ☐ N.U.	☐ F ☐ A ☐ N.U.	☐ F ☐ A ☐ N.U.	☐ F ☐ A ☐ N.U.	☐ F ☐ A ☐ N.U.	☐ F ☐ A ☐ N.U.	☐ F ☐ A ☐ N.U.

EQUIP. INFO.

92. PREVIOUS TICKET NUMBER	93. MILEAGE (ROUND TRIP)	94. TRUCK #	95. SKID #	96. TRUCK/SKID TYPE
	162 ☒ MILES ☐ KILOMETERS	57540		DLS

REMARKS

ITEM # RIG

ITEM # CAL/DSN/MICRO

ITEM #

ITEM #

ITEM # UNITS ON LOCATION WERE

ITEM # #57540 & #93525

ITEM #

ITEM #

ITEM #

ENGINEER NO. 1	EMPLOYEE #	%
Eller	C7499	100
ENGINEER NO. 2	EMPLOYEE #	%
ENGINEER NO. 3	EMPLOYEE #	%

CREW Eller, Rowe, Bowen

DISTRICT MANAGER'S APPROVAL SIGNATURE

ORIGINAL

COPY

LOGGING & PERFORATING JOB LOG FORM 4007

DATE: 4-27-96 | PAGE NO. 1

CUSTOMER	WELL NO.	LEASE	JOB TYPE	TICKET NO.
HALLIBURTON DIL PRODUCTS	1	HAINES	621	952179-9

ITEM DESCRIPTION	BEGIN DATE	BEGIN TIME	FINISH DATE	FINISH TIME	CUMM. TIME	FAILURE GROUP	REMARKS
DIGL	4/27/96	1815	4/27/96	1930	1.25hr	—	No prbls
CDL/DSN/MICRO	" "	1930	" "	2130	2 hrs	—	" " " "
					3.25hr		

ORIGINAL

COPY