TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

15-065-22753

Drill-Stem Test Data

ORIGINAL

Well Name WHITE #1 Test No. 1 Date 3/3/95

Company NOBEL PETROLEUM INC Zone TORONTO/LKC 'A'

Address 3101 N ROCK RD #125 / WICHITA KS 67226 Elevation 2217

Co. Rep./Geo. JERRY HONAS Cont. DUKE #4 Est. Ft. of Pay

Location: Sec. 3 Twp. 6S Rge. 21W Co. GRAHAM State KS

Interval Tested 3335-3395 Drill Pipe Size 4.5" XH

Anchor Length 60 Wt. Pipe I.D. - 2.7 Ft. Run

Top Packer Depth 3330 Drill Collar – 2.25 Ft. Run

Bottom Packer Depth 3335 Mud Wt. 9.1 lb/Gal.

Total Depth 3395 Viscosity 44 Filtrate 8.8

Tool Open @ 2:03PM Initial Blow WEAK 1/2" BLOW - BUILDING TO 1 1/2"

Final Blow VERY WEAK SURFACE BLOW - BUILDING 1 1/4"

Recovery - Total Feet 35 Flush Tool? NO

Rec. 35 Feet of THIN WATERY MUD - FEW OIL SPECKS IN TOOL

Rec. Feet of

Rec. Feet of

Rec. Feet of

Rec. Feet of

BHT 96 °F Gravity °API @ °F Corrected Gravity °API

RW @ °F Chlorides ppm Recovery Chlorides ppm System

(A) Initial Hydrostatic Mud 1663.52 PSI AK1 Recorder No. 2346 Range 4995

(B) First Initial Flow Pressure 35.68 PSI @ (depth) 3356 w / Clock No. ALPINE

(C) First Final Flow Pressure 41.37 PSI AK1 Recorder No. 24174 Range 3050

(D) Initial Shut-in Pressure 1027.69 PSI @ (depth) 3388 w / Clock No. 23839

(E) Second Initial Flow Pressure 41.03 PSI AK1 Recorder No. Range

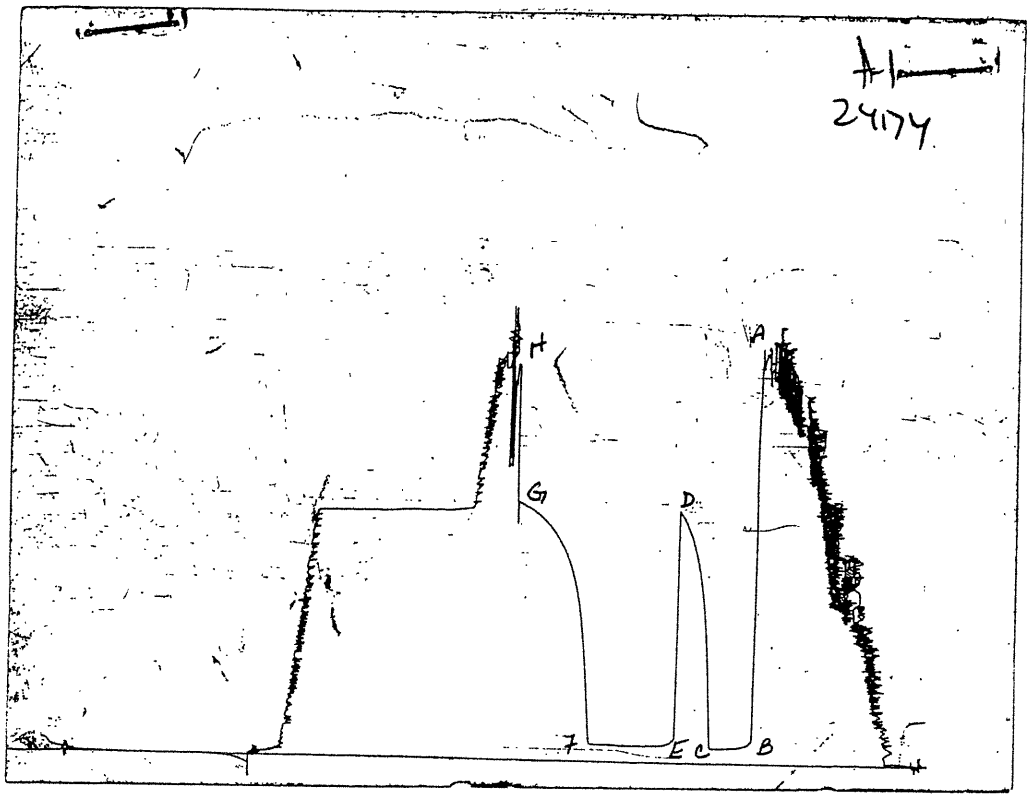
(F) Second Final Flow Pressure 49.17 PSI @ (depth) w / Clock No.

(G) Final Shut-in Pressure 1048.50 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 1610.65 PSI Initial Shut-in 30 Final Shut-in 60

Our Representative PAUL SIMPSON

CHART PAGE



This is an actual photograph of an AK1 recorder chart

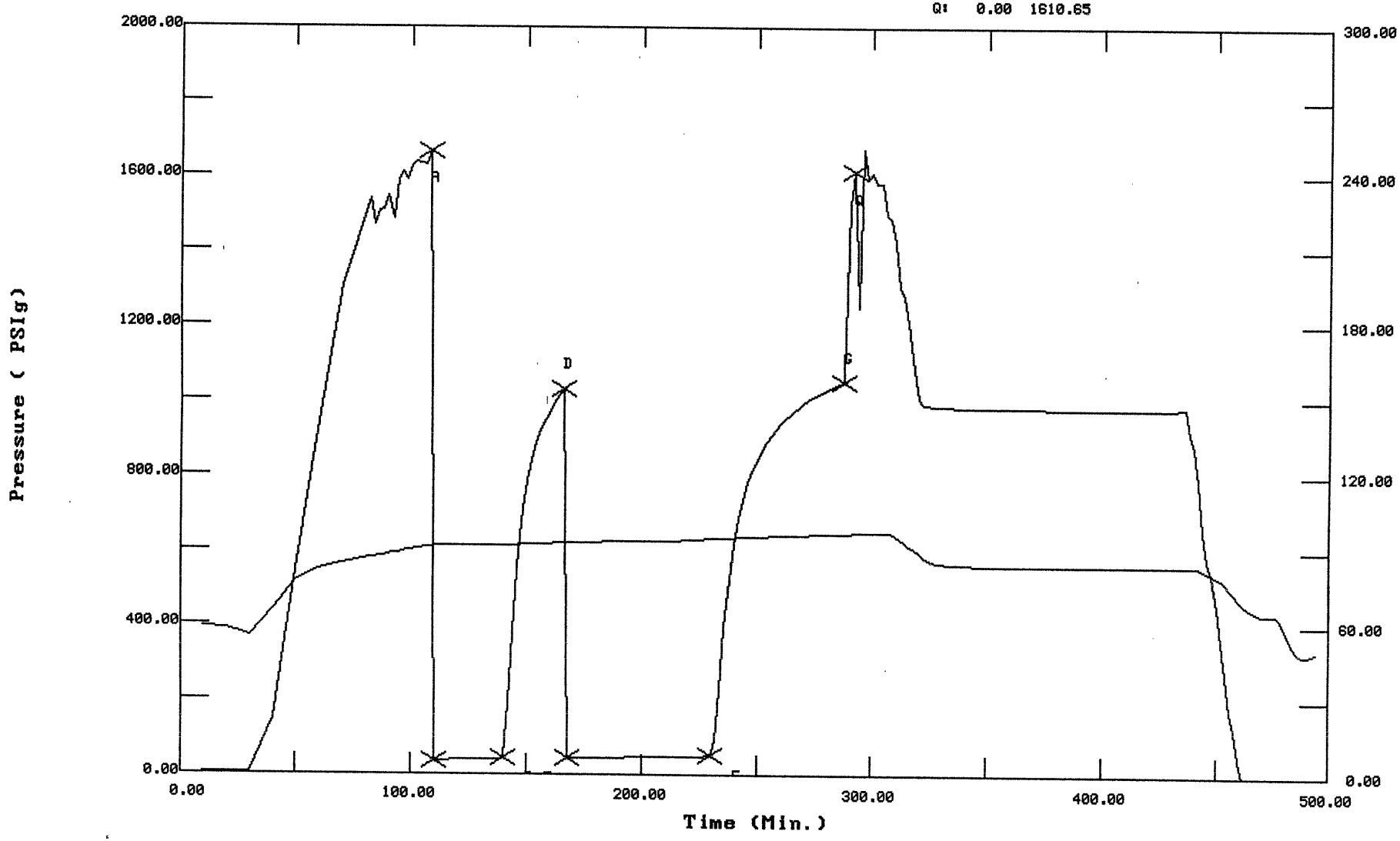
	AK1 READING	ALPINE READING
(A) INITIAL HYDROSTATIC MUD	1649.50	1663.52
(B) FIRST INITIAL FLOW PRESSURE	61.60	35.66
(C) FIRST FINAL FLOW PRESSURE	54.10	41.37
(D) INITIAL CLOSED-IN PRESSURE	999.20	1027.69
(E) SECOND INITIAL FLOW PRESSURE	63.80	41.03
(F) SECOND FINAL FLOW PRESSURE	67.50	49.17
(G) FINAL CLOSED-IN PRESSURE	1026.40	1048.5
(H) FINAL HYDROSTATIC MUD	1572.90	1610.65

TEST HISTORY

Nobel Pet. Inc White #1 DST#1

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	1663.52
B:	0.00	35.66
C:	30.00	41.37
D:	26.00	1027.69
E:	0.00	41.03
F:	62.00	49.17
G:	58.00	1048.50
Q:	0.00	1610.65



ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Nobel Pet. Inc White #1 DST#1

DATE: 03/03/95 TIME: 12:23:35

		Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
*****	Initial Hydro.	108.00	1663.5	0.0	91.33		
*****	Start Flow 1	0.00	35.7	0.0	91.45		
		2.00	35.9	0.3	91.47		
		4.00	36.1	0.4	91.48		
		6.00	36.4	0.8	91.47		
		8.00	36.8	1.2	91.47		
		10.00	37.3	1.6	91.47		
		12.00	37.6	1.9	91.47		
		14.00	37.8	2.2	91.48		
		16.00	38.3	2.7	91.48		
		18.00	38.6	2.9	91.48		
		20.00	39.0	3.4	91.51		
		22.00	39.3	3.6	91.56		
		24.00	39.6	3.9	91.59		
		26.00	40.0	4.4	91.61		
		28.00	40.3	4.6	91.67		
*****	End Flow 1	30.00	41.4	5.7	91.75		
*****	Start Shutin 1	0.00	41.4	0.0	91.75	0.0000	0.002
		2.00	190.9	149.6	91.78	16.0000	0.036
		4.00	435.1	393.7	91.83	8.5000	0.189
		6.00	598.5	557.1	91.93	6.0000	0.358
		8.00	707.3	666.0	92.00	4.7500	0.500
		10.00	784.0	742.7	92.09	4.0000	0.615
		12.00	840.1	798.7	92.19	3.5000	0.706
		14.00	884.8	843.4	92.28	3.1429	0.783
		16.00	920.3	878.9	92.34	2.8750	0.847
		18.00	949.3	907.9	92.41	2.6667	0.901
		20.00	973.6	932.3	92.51	2.5000	0.948
		22.00	994.4	953.0	92.59	2.3636	0.989
		24.00	1012.2	970.8	92.66	2.2500	1.024
*****	End Shut-in 1	26.00	1027.7	986.3	92.74	2.1538	1.056
*****	Start Flow 2	0.00	41.0	0.0	92.82		
		2.00	41.4	0.3	92.85		
		4.00	41.7	0.7	92.86		
		6.00	41.8	0.8	92.90		
		8.00	42.0	1.0	92.92		
		10.00	42.7	1.7	92.99		
		12.00	43.0	1.9	93.04		
		14.00	43.2	2.2	93.10		
		16.00	43.5	2.4	93.21		
		18.00	43.8	2.8	93.37		
		20.00	44.1	3.1	93.62		
		22.00	44.3	3.3	93.67		
		24.00	44.4	3.4	93.67		
		26.00	44.6	3.5	93.67		
		28.00	44.6	3.5	93.67		
		30.00	44.6	3.6	93.67		
		32.00	45.1	4.0	93.68		
		34.00	45.5	4.4	93.68		
		36.00	45.7	4.7	93.68		
		38.00	45.8	4.8	93.68		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Nobel Pet. Inc White #1 DST#1

DATE: 03/03/95 TIME: 12:23:35

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	40.00	45.8	4.8	93.68		
	42.00	45.8	4.8	93.68		
	44.00	46.3	5.3	93.68		
	46.00	46.6	5.5	93.68		
	48.00	46.9	5.9	93.68		
	50.00	47.3	6.3	93.81		
	52.00	47.4	6.4	93.94		
	54.00	47.8	6.8	94.12		
	56.00	48.1	7.0	94.19		
	58.00	48.4	7.4	94.34		
	60.00	48.8	7.8	94.40		
****** End Flow 2	62.00	49.2	8.1	94.46		
****** Start Shutin 2	0.00	49.2	0.0	94.46	0.0000	0.002
	2.00	88.8	39.6	94.55	47.0000	0.008
	4.00	228.5	179.4	94.61	24.0000	0.052
	6.00	396.8	347.6	94.69	16.3333	0.157
	8.00	524.5	475.3	94.79	12.5000	0.275
	10.00	616.4	567.2	94.89	10.2000	0.380
	12.00	684.6	635.4	95.01	8.6667	0.469
	14.00	737.1	688.0	95.09	7.5714	0.543
	16.00	778.9	729.8	95.19	6.7500	0.607
	18.00	813.2	764.0	95.27	6.1111	0.661
	20.00	841.7	792.5	95.36	5.6000	0.708
	22.00	866.0	816.8	95.45	5.1818	0.750
	24.00	886.9	837.7	95.53	4.8333	0.787
	26.00	905.2	856.1	95.61	4.5385	0.819
	28.00	921.5	872.3	95.67	4.2857	0.849
	30.00	936.0	886.9	95.74	4.0667	0.876
	32.00	949.0	899.8	95.79	3.8750	0.901
	34.00	960.7	911.5	95.87	3.7059	0.923
	36.00	971.5	922.3	95.93	3.5556	0.944
	38.00	981.3	932.1	95.98	3.4211	0.963
	40.00	990.3	941.2	96.07	3.3000	0.981
	42.00	998.7	949.6	96.17	3.1905	0.997
	44.00	1006.5	957.4	96.25	3.0909	1.013
	46.00	1013.7	964.5	96.28	3.0000	1.028
	48.00	1020.5	971.3	96.34	2.9167	1.041
	50.00	1026.8	977.7	96.39	2.8400	1.054
	52.00	1032.7	983.6	96.45	2.7692	1.067
	54.00	1038.3	989.2	96.54	2.7037	1.078
	56.00	1043.6	994.4	96.58	2.6429	1.089
****** End Shut-in 2	58.00	1048.5	999.3	96.63	2.5862	1.099
****** Final Hydro.	292.00	1610.7	0.0	96.80		

TRILOBITE TESTING L.L.C

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

№ 8277

Well Name & No. White #1 Test No. 1 Date 3-3-95

Company Nobel Petroleum, Inc Zone Tested Toronto ZKC-A'

Address 3101 N Rock Rd #125 Wichita Ks 67226 Elevation 2217 KB

Co. Rep./Geo. Jerry Hamas Cont. Duke #4 Est. Ft. of Pay

Location: Sec. 3 Twp. 6s Rge. 21 W Co. Graham State Ks

No. of Copies Distribution Sheet Yes No Turnkey X Yes No Evaluation

Interval Tested 3335 - 3395 Drill Pipe Size 4½ XH

Anchor Length 60 Top Choke — 1" Bottom Choke — ¾"

Top Packer Depth 3330 Hole Size — 7⅞" Rubber Size — 6¾"

Bottom Packer Depth 3335 Wt. Pipe I.D. — 2.7 Ft. Run

Total Depth 3395 Drill Collar — 2.25 Ft. Run

Mud Wt. 9.1 lb / gal. Viscosity 44 Filtrate 8.8

Tool Open @ 2:03 PM Initial Blow Weak ½" blow - building to 1" ½

Final Blow V/ weak surface blow - building to 1¼"

Recovery — Total Feet 35 Feet of Gas in Pipe Flush Tool?

Rec. 35	Feet Of thin watery mud	%gas	%oil	%water	%mud
Rec.	Feet Of few oil specks in tool	%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 96 °F Gravity °API @ °F Corrected Gravity °API

RW @ °F Chlorides ppm Recovery Chlorides ppm System

(A) Initial Hydrostatic Mud	1663 PSI	Recorder No.	2346	Range	4995
(B) First Initial Flow Pressure	35 PSI	@ (depth)	3356	w/Clock No.	Alpine
(C) First Final Flow Pressure	41 PSI	AK1 Recorder No.	24174	Range	3050
(D) Initial Shut-In Pressure	1027 PSI	@ (depth)	3388	w/Clock No.	23839
(E) Second Initial Flow Pressure	41 PSI	AK1 Recorder No.		Range	
(F) Second Final Flow Pressure	49 PSI	@ (depth)		w/Clock No.	
(G) Final Shut-In Pressure	1048 PSI	Initial Opening	30	Test	
(H) Final Hydrostatic Mud	1610 PSI	Initial Shut-In	30	Jars	
		Final Flow	60	Safety Joint	
		Final Shut-In	60	Straddle	
				Circ. Sub	
				Sampler	
				Extra Packer	
				Other	
				TOTAL PRICE $	

Approved By Jerry Hamas

Our Representative Paul Simpson

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name WHITE #1 Test No. 2 Date 3/4/95

Company NOBEL PETROLEUM INC Zone LKC

Address 3101 N ROCK RD #125 / WICHITA KS 67226 Elevation 2217

Co. Rep./Geo. JERRY HONAS Cont. DUKE #4 Est. Ft. of Pay

Location: Sec. 3 Twp. 6S Rge. 21W Co. GRAHAM State KS

Interval Tested 3439-3460 Drill Pipe Size 4.5" XH

Anchor Length 21 Wt. Pipe I.D. - 2.7 Ft. Run

Top Packer Depth 3434 Drill Collar – 2.25 Ft. Run

Bottom Packer Depth 3439 Mud Wt. 9.1 lb/Gal.

Total Depth 3460 Viscosity 44 Filtrate 8.8

Tool Open @ 6:38AM Initial Blow 1" BLOW BUILDING TO BOTTOM OF BUCKET IN 24 MINUTES

Final Blow 3/4" BLOW BUILDING TO BOTTOM OF BUCKET IN 26 MINUTES

Recovery - Total Feet 320 Flush Tool? NO

Rec. 120 Feet of MUDDY WATER

Rec. 200 Feet of SLIGHTLY GASSY SALT WATER

Rec. Feet of

Rec. Feet of

Rec. Feet of

BHT 108 °F Gravity °API @ °F Corrected Gravity °API

RW 0.19 @ 63.5 °F Chlorides 44000 ppm Recovery Chlorides ppm System

(A) Initial Hydrostatic Mud 1715.06 PSI AK1 Recorder No. 2346 Range 4995

(B) First Initial Flow Pressure 24.25 PSI @ (depth) 3443 w / Clock No. ALPINE

(C) First Final Flow Pressure 77.96 PSI AK1 Recorder No. 10994 Range 4200

(D) Initial Shut-in Pressure 1118.08 PSI @ (depth) 3454 w / Clock No. 22348

(E) Second Initial Flow Pressure 85.01 PSI AK1 Recorder No. Range

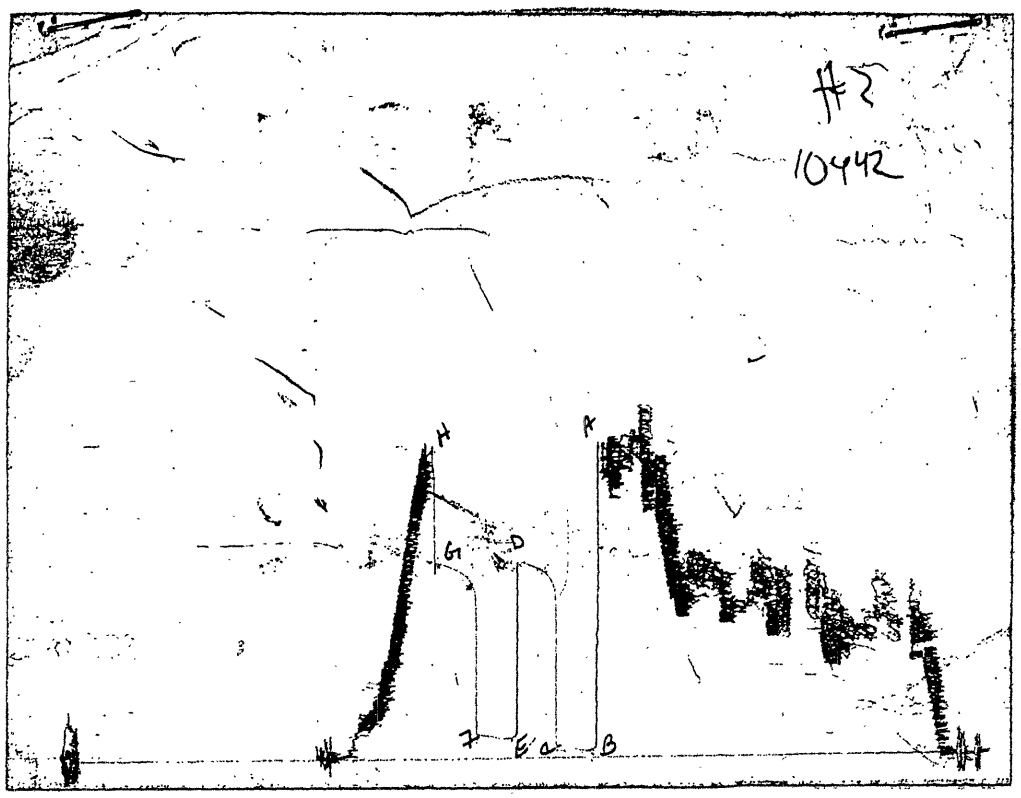
(F) Second Final Flow Pressure 136.63 PSI @ (depth) w / Clock No.

(G) Final Shut-in Pressure 1110.86 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 1682.83 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative PAUL SIMPSON

CHART PAGE



This is an actual photograph of an AK1 recorder chart

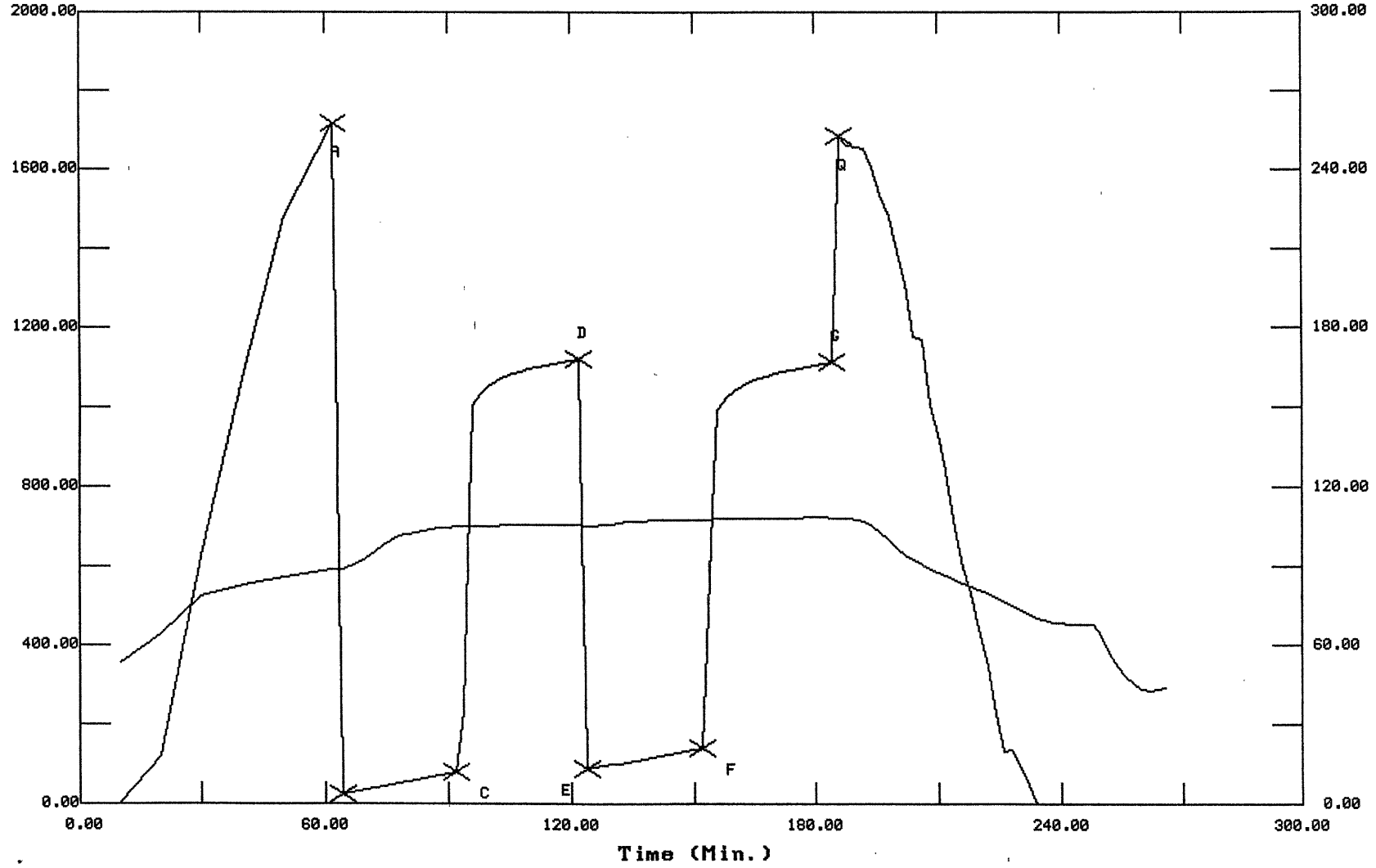
	ALPINE READING	AK1 READING
(A) INITIAL HYDROSTATIC MUD	1715.06	1715.8
(B) FIRST INITIAL FLOW PRESSURE	24.25	30.8
(C) FIRST FINAL FLOW PRESSURE	77.96	60.5
(D) INITIAL CLOSED-IN PRESSURE	1118.08	1084.4
(E) SECOND INITIAL FLOW PRESSURE	85.01	102.1
(F) SECOND FINAL FLOW PRESSURE	136.63	126.6
(G) FINAL CLOSED-IN PRESSURE	1110.86	1082.3
(H) FINAL HYDROSTATIC MUD	1682.83	1700.9

TEST HISTORY

nobel pet white #1 DST #2

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	1715.06
B:	0.00	24.25
C:	28.00	77.96
D:	30.00	1118.08
E:	0.00	85.01
F:	28.00	136.63
G:	32.00	1110.86
Q:	0.00	1682.83



ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: nobel pet white #1 DST #2

DATE: 03/04/95 TIME: 05:44:31

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
****** Initial Hydro.	62.00	1715.1	0.0	88.60		
****** Start Flow 1	0.00	24.2	0.0	88.90		
	2.00	27.2	2.9	89.58		
	4.00	30.6	6.4	90.86		
	6.00	34.2	10	93.01		
	8.00	37.8	13.5	95.20		
	10.00	41.8	17.5	97.60		
	12.00	46.4	22.2	99.57		
	14.00	50.4	26.2	101.10		
	16.00	54.6	30.4	102.14		
	18.00	58.6	34.3	102.76		
	20.00	62.6	38.4	103.34		
	22.00	66.3	42.0	103.88		
	24.00	70.2	46.0	104.27		
	26.00	73.8	49.6	104.46		
****** End Flow 1	28.00	78.0	53.7	104.61		
****** Start Shutin 1	0.00	78.0	0.0	104.61	0.0000	0.006
	2.00	229.6	151.7	104.73	15.0000	0.053
	4.00	1002.8	924.9	104.90	8.0000	1.006
	6.00	1032.6	954.6	105.06	5.6667	1.066
	8.00	1052.7	974.7	105.11	4.5000	1.108
	10.00	1064.1	986.2	105.18	3.8000	1.132
	12.00	1074.6	996.6	105.30	3.3333	1.155
	14.00	1082.9	1005.0	105.37	3.0000	1.173
	16.00	1089.5	1011.5	105.38	2.7500	1.187
	18.00	1095.3	1017.4	105.43	2.5556	1.200
	20.00	1100.5	1022.5	105.48	2.4000	1.211
	22.00	1104.9	1026.9	105.47	2.2727	1.221
	24.00	1108.8	1030.8	105.44	2.1667	1.229
	26.00	1112.4	1034.4	105.37	2.0769	1.237
	28.00	1115.3	1037.3	105.29	2.0000	1.244
****** End Shut-in 1	30.00	1118.1	1040.1	105.20	1.9333	1.250
****** Start Flow 2	0.00	85.0	0.0	105.15		
	2.00	89.2	4.2	105.07		
	4.00	93.1	8.1	105.29		
	6.00	96.8	11.7	105.65		
	8.00	100.4	15.4	106.12		
	10.00	104.4	19.4	106.55		
	12.00	108.1	23.1	106.85		
	14.00	111.6	26.6	106.93		
	16.00	115.2	30.2	107.14		
	18.00	119.2	34.2	107.29		
	20.00	122.7	37.7	107.39		
	22.00	126.3	41.3	107.46		
	24.00	129.6	44.6	107.38		
	26.00	133.2	48.2	107.39		
****** End Flow 2	28.00	136.6	51.6	107.44		
****** Start Shutin 2	0.00	136.6	0.0	107.44	0.0000	0.019
	2.00	569.9	433.2	107.48	29.0000	0.325

4.00	991.9	855.2	107.63	15.0000	0.984
6.00	1022.0	885.4	107.85	10.3333	1.044

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: nobel pet white #1 DST #2

DATE: 03/04/95 TIME: 05:44:31

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	8.00	1039.9	903.2	107.90	8.0000	1.081
	10.00	1052.4	915.8	107.90	6.6000	1.108
	12.00	1062.5	925.9	107.92	5.6667	1.129
	14.00	1070.7	934.0	107.99	5.0000	1.146
	16.00	1077.6	941.0	108.07	4.5000	1.161
	18.00	1083.7	947.0	108.13	4.1111	1.174
	20.00	1089.0	952.4	108.16	3.8000	1.186
	22.00	1093.6	956.9	108.18	3.5455	1.196
	24.00	1097.7	961.1	108.20	3.3333	1.205
	26.00	1101.5	964.8	108.21	3.1538	1.213
	28.00	1104.9	968.3	108.23	3.0000	1.221
	30.00	1108.0	971.4	108.21	2.8667	1.228
***** End Shut-in 2	32.00	1110.9	974.2	108.19	2.7500	1.234
***** Final Hydro.	186.00	1682.8	0.0	108.19		

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No. 8278

Well Name & No. White #1 Test No. 2 Date 3-4-95

Company Nobel Petroleum, Inc Zone Tested LKC

Address 3101 N Rock Rd ths Wichita KS 67226 Elevation 2217 KB

Co. Rep./Geo. Jerry Honas Cont. Duke #4 Est. Ft. of Pay

Location: Sec. 3 Twp. 6s Rge. 21w Co. Graham State KS

No. of Copies Distribution Sheet Yes No Turnkey Yes No Evaluation

Interval Tested 3439-3460 Drill Pipe Size 4½ XH

Anchor Length 21 Top Choke — 1" Bottom Choke — ¾"

Top Packer Depth 3434 Hole Size — 7⅞" Rubber Size — 6¾"

Bottom Packer Depth 3439 Wt. Pipe I.D. — 2.7 Ft. Run

Total Depth 3460 Drill Collar — 2.25 Ft. Run

Mud Wt. 9.1 lb/gal. Viscosity 44 Filtrate 8.8

Tool Open @ 6:38 AM Initial Blow 1" blow building to bottom of bucket in 24 minutes

Final Blow ¾" blow building to bottom of bucket in 26 minutes

Recovery — Total Feet 320 Feet of Gas in Pipe Flush Tool?

Rec. 120	Feet Of Muddy water	%gas	%oil	%water	%mud
Rec. 200	Feet Of sl gassy salt water	%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 108 °F Gravity °API @ °F Corrected Gravity °API

RW .19 @ 67.5 °F Chlorides 44,000 ppm Recovery Chlorides ppm System

(A) Initial Hydrostatic Mud	1715	1749	PSI	Recorder No. 2346	Range 4995	
(B) First Initial Flow Pressure	24	43	PSI	@ (depth) 3443	w/Clock No. Alpine	
(C) First Final Flow Pressure	78	74	PSI	AK1 Recorder No. ~~10442~~ 10994	Range 4200	
(D) Initial Shut-In Pressure	1118	1093	PSI	@ (depth) 3454	w/Clock No. 22348	
(E) Second Initial Flow Pressure	85	106	PSI	AK1 Recorder No.	Range	
(F) Second Final Flow Pressure	136	138	PSI	@ (depth)	w/Clock No.	
(G) Final Shut-In Pressure	1110	1093	PSI	Initial Opening 30	Test	
(H) Final Hydrostatic Mud	1683	1738	PSI	Initial Shut-In 30	Jars	
				Final Flow 30	Safety Joint	
				Final Shut-In 30	Straddle	
					Circ. Sub	
					Sampler	
					Extra Packer	
					Other	

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.

Approved By Jerry Honas

Our Representative Paul Simpson

TOTAL PRICE $