

ORIGINAL

WELL NAME:

Whipple 1-636

COMPANY:

Harris Oil and Gas Company

LOCATION:

36-29S-40W

Stanton County, Kansas

DATE:

4/15/98

RELEASED

DEC 31 1998

15-187-2089 | FROM CONFIDENTIAL

TRILOBITE TESTING L.L.C.

OPERATOR : Harris Oil & Gas Co.

DATE 4-9-98

WELL NAME: Whipple 1-636

KB 3249.00 ft

TICKET NO: 9811 DST #1

LOCATION : 36-29s-40w Stanton KS

GR 3235.00 ft

FORMATION: ST. Louis B

INTERVAL : 5640.00 To 5643.00 ft

TD 5643.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13769	13769	2357			PF Fr. 2207 to 2237 hr
SI 60 Range(Psi)	4200.0	4200.0	4995.0	0.0	0.0	IS Fr. 2237 to 2337 hr
SF 60 Clock(hrs)	12hr	12hr	elect			SF Fr. 2337 to 0037 hr
FS 120 Depth(ft)	5639.0	5639.0	5603.0	0.0	0.0	FS Fr. 0037 to 0237 hr

	Field	1	2	3	4	
A. Init Hydro	0.0	0.0	2690.0	0.0	0.0	T STARTED 1915 hr
B. First Flow	0.0	0.0	621.0	0.0	0.0	T ON BOTM 2205 hr
B1. Final Flow	0.0	0.0	846.0	0.0	0.0	T OPEN 2207 hr
C. In Shut-in	0.0	0.0	1036.0	0.0	0.0	T PULLED 0237 hr
D. Init Flow	0.0	0.0	871.0	0.0	0.0	T OUT 0700 hr
E. Final Flow	0.0	0.0	1030.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	1039.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	0.0	0.0	2636.0	0.0	0.0	Tool Wt. 2000.00 lbs
Inside/Outside	O	O	I			Wt Set On Packer 30000.00 lbs
						Wt Pulled Loose 118000.00 lbs
						Initial Str Wt 86000.00 lbs
						Unseated Str Wt 96000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.78 in
						D Col. ID 2.25 in
						D. Pipe ID 3.38 in
						D.C. Length 558.00 ft
						D.P. Length 5020.00 ft

RECOVERY

Tot Fluid 2260.00 ft of 558.00 ft in DC and 1702.00 ft in DP
 20.00 ft of clean gassy oil 20% gas 80% oil
 135.00 ft of gassy mud cut oil 18% gas 44% oil 38% mud
 80.00 ft of Oil and gas cut water mud
 0.00 ft of 32% gas 4% oil 14% water 50% mud
 2025.00 ft of Gassy water 5% gas 95% water
 0.00 ft of
 0.00 ft of
 0.00 ft of
 SALINITY 42000.00 P.P.M. A.P.I. Gravity 38.00

MUD DATA-----
 Mud Type chemical
 Weight 9.10 lb/cf
 Vis. 62.00 S/L
 W.L. 8.00 in3
 F.C. 0.00 in
 Mud Drop

BLOW DESCRIPTION

Initial Flow:
 Strong blow - bottom of bucket
 in 30 seconds
 Gas to surface in 5 minutes

RELEASED

Initial Shutin:
 Blow never died out

DEC 3 1 1998

Final Flow:
 Strong blow - bottom of bucket as
 soon as opened tool

FROM CONFIDENTIAL

Final Shutin:
 Blow never died out

SAMPLES: 1
 SENT TO: Caraway

Amt. of fill 4.00 ft
 Btm. H. Temp. 136.00 F
 Hole Condition good
 % Porosity 15.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00
 Cushion Type
 Reversed Out N
 Tool Chased N
 Tester Scott & Lanny
 Co. Rep. Austin Garner
 Contr. Allen
 Rig # 5
 Unit #
 Pump T.

Test Successful: Y

NATURAL GAS ANALYSIS REPORT

Sampled by:
Trilobite Testing, L. L. C.
Hays, Kansas
Scott City, Kansas
Phone: 800-728-5369
Fax: 913-625-5620

Analyzed by:
Caraway Analytical, Inc
P. O. Box 2137
Liberal, Kansas 67905
Phone: 316-624-5389
Fax: 316-626-7108

Lab Number: 980939
Sample From: Whipple 1-636 DST 1
Producer: Harris Oil & Gas
Date:
Time:
Sampler:
Source:
Analyzed: 04/14/98
Pressure:
Temperature:
Location: 36-29-40
County: Stanton
State: Kansas
Formation: St. Louis

Table with 3 columns: Component Name, Mole %, GPM. Rows include Helium, Hydrogen, Oxygen, Nitrogen, Carbon Dioxide, Methane, Ethane, Propane, Iso Butane, Normal Butane, Iso Pentane, Normal Pentane, Hexanes Plus.

TOTAL: 100.000 5.049
Z Fact: 0.9966
SP.GR.: 0.8031
BTU (SAT): 1153.6 @ 14.73 psia
BTU (DRY): 1174.1 @ 14.73 psia
OCTANE RATING: 104.0

RELEASED

COMMENTS:

0.000

DEC 2 1 1998

CONFIDENTIAL

GAS RECOVERY

COMPANY: Harris Oil & Gas Co.

DATE: 4-9-98

WELL NAME: Whipple 1-636

KB Elev: 3249.00 ft TICKET #9811 DST #1

WELL LOCATION: 36-29s-40w

GR Elev: 3235.00 ft FORMATION: ST. Louis B

INTERVAL Fr.: 5640.00 To 5643.00 T.D.: 5643.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Merla Data

***** GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
10	0.75	11	0	274000.0
15	0.75	1	0	251000.0
20	0.75	4	0	156000.0
25	0.75	6	0	194000.0
30	0.75	5	0	175000.0

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
10	0.38	4	0	41600.0
20	0.38	5	0	44200.0
30	0.38	4	0	39000.0
40	0.38	7	0	53200.0
50	0.38	4	0	39000.0
60	0.38	4	0	39000.0

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Whipple 1-636

LOCATION : 36-29s-40w

TICKET No. 9811 D.S.T. No. 1 DATE 4-9-98

TOTAL TOOL TO BOTTOM OF TOP PACKERS 30

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 43

TOTAL TOOL 73

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY

D.C. ABOVE TOOLS.Stands9 Single Total 558

D.P. ABOVE TOOLS.Stands79 Single 1 Total 5020

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5651

TOTAL DEPTH 5644

TOTAL DRILL PIPE ABOVE K.B. 7

REMARKS:

Sampler Data

Total Vol 4000ml

Total Vol Rec. 3400ml

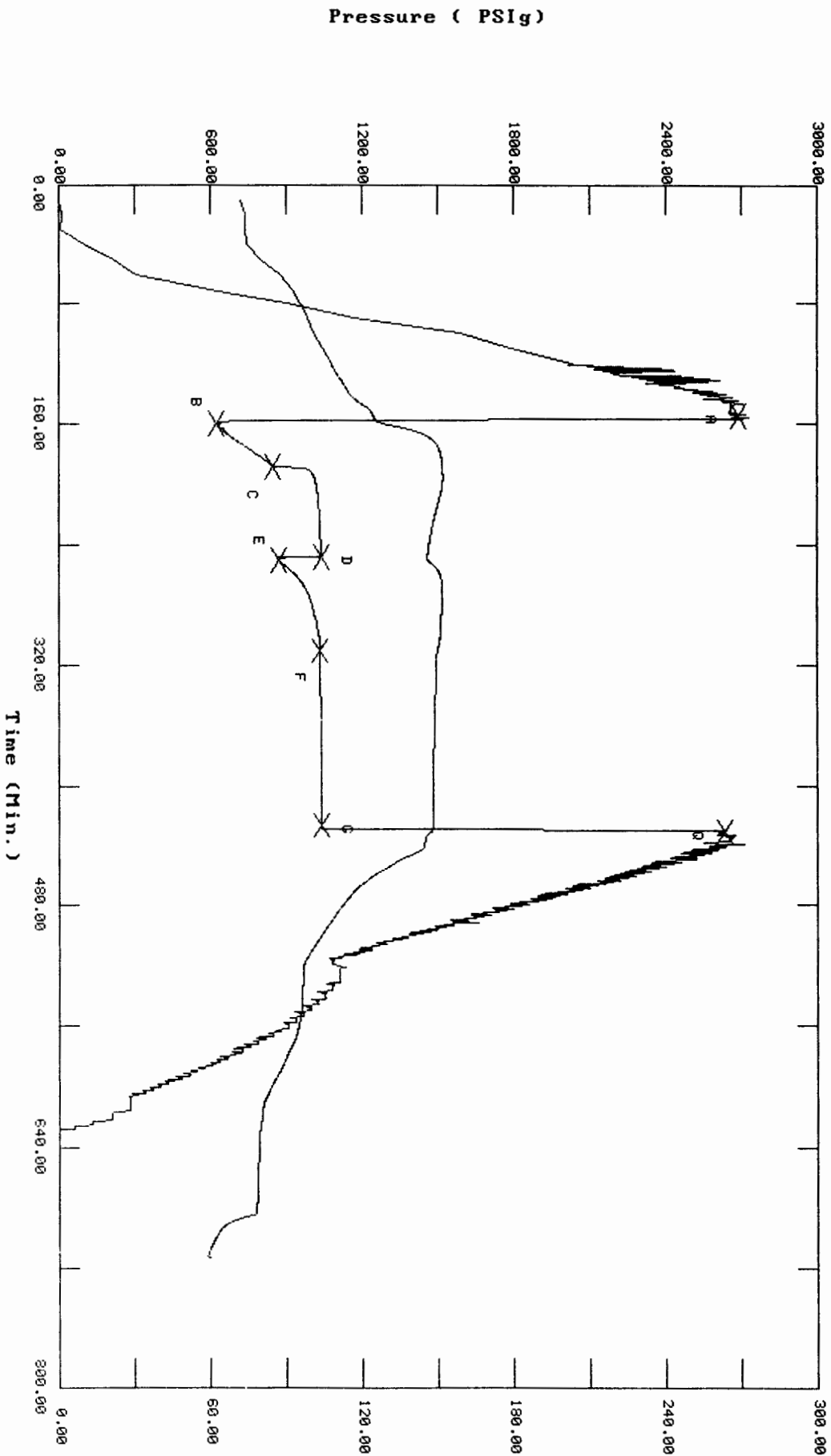
Wtr. 3400ml

Gas 600ml

Psi 800

P.O. SUB top of tool	5571
C.O. SUB DP	5572
S.I. TOOL 5'	5577
3' sampler	5580
HMV 5'	5585
JARS 5'	5590
SAFETY JOINT 2'	5592
PACKER 5'	5597
PACKER 5'	5601
DEPTH 5601	
STUBB 1'	5602
ANCHOR	
1' perf	5603
Alpine Rec.	5603
5' PU sub	5608
25' perf	5633
6' perf	5639
T.C.	
DEPTH	
AK1 Rec	5639
BULLNOSE	
T.D. 5'	5644

TEST HISTORY
 9811 DST#1 Whipple 1-636 Harris Oil & Gas Co.



Flag Points

t (Min.)	P (PSI)
A:	0.00 2690.38
B:	0.00 621.56
C:	28.50 846.91
D:	60.00 1036.25
E:	0.00 871.25
F:	60.00 1030.04
G:	116.00 1039.10
G:	0.00 2636.58

Temperature (DEG F)

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9811 DST#1 Whipple 1-636 Harris Oil & Gas Co.

DATE: 04/09/98 TIME: 15:56:40

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Initial Hydro.	155.00	2690.4	0.0	124.47		
***** Start Flow 1	0.00	621.6	0.0	127.85		
	0.50	640.6	19.1	129.04		
	1.00	635.7	14.1	130.36		
	1.50	634.7	13.2	131.74		
	2.00	633.2	11.7	133.16		
	2.50	632.2	10.7	134.54		
	3.00	644.2	22.7	135.88		
	3.50	652.8	31.2	137.12		
	4.00	652.3	30.7	138.32		
	4.50	651.9	30.3	139.45		
	5.00	653.2	31.6	140.48		
	5.50	656.1	34.5	141.43		
	6.00	658.8	37.3	142.29		
	6.50	662.0	40.5	143.08		
	7.00	664.9	43.3	143.82		
	7.50	670.2	48.6	144.50		
	8.00	674.6	53.0	145.13		
	8.50	678.4	56.8	145.70		
	9.00	684.3	62.8	146.23		
	9.50	689.0	67.5	146.72		
	10.00	691.3	69.7	147.16		
	10.50	694.0	72.4	147.57		
	11.00	698.5	77.0	147.94		
	11.50	704.1	82.6	148.29		
	12.00	707.7	86.1	148.60		
	12.50	712.0	90.4	148.89		
	13.00	716.2	94.7	149.13		
	13.50	720.2	98.6	149.36		
	14.00	724.1	102.6	149.57		
	14.50	728.1	106.6	149.77		
	15.00	732.9	111.4	149.93		
	15.50	737.0	115.4	150.10		
	16.00	742.2	120.7	150.25		
	16.50	746.0	124.5	150.40		
	17.00	751.3	129.8	150.52		
	17.50	756.6	135.0	150.63		
	18.00	760.3	138.7	150.73		
	18.50	763.9	142.3	150.83		
	19.00	767.8	146.2	150.93		
	19.50	770.8	149.2	151.01		
	20.00	774.8	153.3	151.10		
	20.50	779.8	158.3	151.17		
	21.00	785.1	163.6	151.25		
	21.50	791.3	169.8	151.32		
	22.00	795.3	173.7	151.38		
	22.50	800.3	178.8	151.44		
	23.00	804.0	182.5	151.50		
	23.50	808.0	186.4	151.55		
	24.00	811.3	189.8	151.60		
	24.50	815.7	194.1	151.64		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9811 DST#1 Whipple 1-636 Harris Oil & Gas Co.
 DATE: 04/09/98 TIME: 15:56:40

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	25.00	819.3	197.7	151.68		
	25.50	823.9	202.3	151.73		
	26.00	828.1	206.5	151.76		
	26.50	832.3	210.7	151.79		
	27.00	836.3	214.8	151.81		
	27.50	838.9	217.4	151.84		
	28.00	843.1	221.6	151.86		
***** End Flow 1	28.50	846.9	225.3	151.89		
***** Start Shutin 1	0.00	846.9	0.0	151.89	0.0000	0.717
	0.50	878.7	31.8	151.91	58.0000	0.772
	1.00	960.2	113.3	151.95	29.5000	0.922
	1.50	976.3	129.4	151.96	20.0000	0.953
	2.00	984.6	137.7	151.98	15.2500	0.970
	2.50	990.1	143.2	151.98	12.4000	0.980
	3.00	994.3	147.4	152.00	10.5000	0.989
	3.50	997.2	150.3	152.01	9.1429	0.994
	4.00	999.7	152.8	152.03	8.1250	0.999
	4.50	1001.8	154.9	152.04	7.3333	1.004
	5.00	1003.7	156.8	152.06	6.7000	1.007
	5.50	1005.2	158.3	152.08	6.1818	1.010
	6.00	1006.5	159.6	152.10	5.7500	1.013
	6.50	1008.0	161.1	152.09	5.3846	1.016
	7.00	1009.2	162.3	152.10	5.0714	1.019
	7.50	1010.3	163.4	152.10	4.8000	1.021
	8.00	1011.3	164.4	152.09	4.5625	1.023
	8.50	1012.2	165.3	152.09	4.3529	1.025
	9.00	1013.0	166.1	152.07	4.1667	1.026
	9.50	1013.8	166.9	152.05	4.0000	1.028
	10.00	1014.5	167.6	152.02	3.8500	1.029
	10.50	1015.3	168.4	151.99	3.7143	1.031
	11.00	1015.9	169.0	151.97	3.5909	1.032
	11.50	1016.5	169.6	151.92	3.4783	1.033
	12.00	1017.2	170.3	151.89	3.3750	1.035
	12.50	1017.6	170.7	151.85	3.2800	1.036
	13.00	1018.2	171.3	151.80	3.1923	1.037
	13.50	1018.7	171.8	151.75	3.1111	1.038
	14.00	1019.3	172.4	151.70	3.0357	1.039
	14.50	1019.6	172.7	151.65	2.9655	1.040
	15.00	1020.2	173.3	151.58	2.9000	1.041
	15.50	1020.5	173.6	151.53	2.8387	1.041
	16.00	1021.0	174.1	151.47	2.7812	1.042
	16.50	1021.3	174.4	151.41	2.7273	1.043
	17.00	1021.7	174.8	151.34	2.6765	1.044
	17.50	1022.0	175.1	151.27	2.6286	1.044
	18.00	1022.3	175.4	151.21	2.5833	1.045
	18.50	1022.6	175.7	151.14	2.5405	1.046
	19.00	1022.9	176.0	151.06	2.5000	1.046
	19.50	1023.3	176.4	150.99	2.4615	1.047
	20.00	1023.7	176.8	150.92	2.4250	1.048
	20.50	1024.0	177.1	150.85	2.3902	1.049
	21.00	1024.2	177.3	150.77	2.3571	1.049

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9811 DST#1 Whipple 1-636 Harris Oil & Gas Co.

DATE: 04/09/98 TIME: 15:56:40

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
21.50	1024.4	177.5	150.69	2.3256	1.049
22.00	1024.8	177.9	150.61	2.2955	1.050
22.50	1025.3	178.3	150.53	2.2667	1.051
23.00	1025.5	178.6	150.46	2.2391	1.052
23.50	1025.7	178.8	150.39	2.2128	1.052
24.00	1026.0	179.1	150.30	2.1875	1.053
24.50	1026.2	179.3	150.22	2.1633	1.053
25.00	1026.6	179.7	150.13	2.1400	1.054
25.50	1026.8	179.9	150.06	2.1176	1.054
26.00	1027.0	180.1	149.98	2.0962	1.055
26.50	1027.3	180.4	149.89	2.0755	1.055
27.00	1027.4	180.5	149.81	2.0556	1.056
27.50	1027.7	180.8	149.73	2.0364	1.056
28.00	1027.9	181.0	149.65	2.0179	1.057
28.50	1028.2	181.3	149.57	2.0000	1.057
29.00	1028.4	181.5	149.48	1.9828	1.058
29.50	1028.6	181.7	149.40	1.9661	1.058
30.00	1028.8	181.9	149.32	1.9500	1.058
30.50	1029.0	182.1	149.25	1.9344	1.059
31.00	1029.1	182.2	149.17	1.9194	1.059
31.50	1029.3	182.4	149.09	1.9048	1.059
32.00	1029.5	182.6	149.01	1.8906	1.060
32.50	1029.8	182.9	148.94	1.8769	1.060
33.00	1029.8	182.9	148.86	1.8636	1.060
33.50	1030.1	183.2	148.79	1.8507	1.061
34.00	1030.2	183.3	148.72	1.8382	1.061
34.50	1030.4	183.5	148.64	1.8261	1.062
35.00	1030.5	183.6	148.57	1.8143	1.062
35.50	1030.7	183.8	148.50	1.8028	1.062
36.00	1030.8	183.9	148.42	1.7917	1.063
36.50	1030.9	184.0	148.37	1.7808	1.063
37.00	1031.2	184.3	148.29	1.7703	1.063
37.50	1031.3	184.4	148.23	1.7600	1.064
38.00	1031.4	184.5	148.15	1.7500	1.064
38.50	1031.5	184.6	148.09	1.7403	1.064
39.00	1031.7	184.8	148.02	1.7308	1.064
39.50	1031.8	184.9	147.97	1.7215	1.065
40.00	1032.0	185.1	147.89	1.7125	1.065
40.50	1032.1	185.2	147.83	1.7037	1.065
41.00	1032.4	185.5	147.78	1.6951	1.066
41.50	1032.3	185.4	147.72	1.6867	1.066
42.00	1032.6	185.7	147.65	1.6786	1.066
42.50	1032.6	185.6	147.59	1.6706	1.066
43.00	1032.7	185.8	147.54	1.6628	1.067
43.50	1032.7	185.8	147.47	1.6552	1.067
44.00	1033.0	186.1	147.41	1.6477	1.067
44.50	1033.1	186.2	147.35	1.6404	1.067
45.00	1033.1	186.2	147.30	1.6333	1.067
45.50	1033.2	186.3	147.25	1.6264	1.068
46.00	1033.3	186.4	147.19	1.6196	1.068
46.50	1033.5	186.6	147.14	1.6129	1.068

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9811 DST#1 Whipple 1-636 Harris Oil & Gas Co.

DATE: 04/09/98 TIME: 15:56:40

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶	
47.00	1033.7	186.8	147.09	1.6064	1.069	
47.50	1033.8	186.9	147.03	1.6000	1.069	
48.00	1033.9	187.0	146.97	1.5938	1.069	
48.50	1034.1	187.2	146.92	1.5876	1.069	
49.00	1034.2	187.2	146.88	1.5816	1.069	
49.50	1034.2	187.3	146.83	1.5758	1.070	
50.00	1034.4	187.5	146.78	1.5700	1.070	
50.50	1034.4	187.5	146.73	1.5644	1.070	
51.00	1034.4	187.5	146.68	1.5588	1.070	
51.50	1034.7	187.7	146.63	1.5534	1.071	
52.00	1034.6	187.7	146.59	1.5481	1.070	
52.50	1034.7	187.8	146.54	1.5429	1.071	
53.00	1034.8	187.9	146.50	1.5377	1.071	
53.50	1035.0	188.1	146.45	1.5327	1.071	
54.00	1035.1	188.2	146.40	1.5278	1.071	
54.50	1035.2	188.3	146.36	1.5229	1.072	
55.00	1035.4	188.5	146.31	1.5182	1.072	
55.50	1035.4	188.5	146.27	1.5135	1.072	
56.00	1035.4	188.5	146.23	1.5089	1.072	
56.50	1035.6	188.7	146.18	1.5044	1.072	
57.00	1035.7	188.8	146.14	1.5000	1.073	
57.50	1035.9	189.0	146.10	1.4957	1.073	
58.00	1036.0	189.1	146.06	1.4914	1.073	
58.50	1036.2	189.3	146.02	1.4872	1.074	
59.00	1036.1	189.2	145.98	1.4831	1.073	
59.50	1036.2	189.3	145.95	1.4790	1.074	
***** End Shut-in 1	60.00	1036.2	189.3	145.90	1.4750	1.074
***** Start Flow 2	0.00	871.2	0.0	146.27		
	0.50	874.1	2.9	146.54		
	1.00	874.2	2.9	146.86		
	1.50	877.0	5.7	147.19		
	2.00	881.7	10.5	147.54		
	2.50	885.5	14.3	147.89		
	3.00	890.8	19.6	148.24		
	3.50	894.4	23.2	148.57		
	4.00	898.5	27.3	148.90		
	4.50	902.4	31.1	149.20		
	5.00	906.7	35.4	149.48		
	5.50	910.3	39.0	149.73		
	6.00	913.6	42.4	149.95		
	6.50	916.7	45.5	150.17		
	7.00	919.6	48.3	150.37		
	7.50	922.4	51.2	150.54		
	8.00	926.1	54.8	150.70		
	8.50	928.7	57.4	150.85		
	9.00	932.6	61.4	150.96		
	9.50	935.3	64.0	151.07		
	10.00	938.1	66.9	151.17		
	10.50	939.9	68.7	151.26		
	11.00	942.8	71.6	151.33		
	11.50	945.4	74.1	151.39		

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9811 DST#1 Whipple 1-636 Harris Oil & Gas Co.

DATE: 04/09/98 TIME: 15:56:40

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
12.00	947.6	76.4	151.45		
12.50	950.1	78.8	151.51		
13.00	952.9	81.7	151.57		
13.50	954.1	82.8	151.60		
14.00	957.3	86.0	151.64		
14.50	959.3	88.0	151.67		
15.00	962.6	91.3	151.70		
15.50	964.8	93.6	151.73		
16.00	966.7	95.4	151.74		
16.50	967.7	96.4	151.76		
17.00	968.8	97.5	151.77		
17.50	971.8	100.5	151.79		
18.00	972.0	100.7	151.79		
18.50	974.4	103.1	151.80		
19.00	974.7	103.5	151.80		
19.50	976.0	104.7	151.81		
20.00	977.3	106.1	151.80		
20.50	977.9	106.7	151.81		
21.00	980.1	108.9	151.81		
21.50	981.9	110.7	151.80		
22.00	983.4	112.1	151.80		
22.50	984.8	113.6	151.80		
23.00	986.5	115.2	151.79		
23.50	987.0	115.7	151.79		
24.00	987.8	116.6	151.79		
24.50	987.5	116.2	151.77		
25.00	989.4	118.2	151.76		
25.50	991.8	120.5	151.77		
26.00	992.9	121.7	151.75		
26.50	993.8	122.5	151.74		
27.00	995.3	124.0	151.73		
27.50	995.4	124.1	151.71		
28.00	997.3	126.1	151.71		
28.50	997.5	126.2	151.70		
29.00	998.5	127.2	151.68		
29.50	999.3	128.1	151.67		
30.00	1000.7	129.5	151.65		
30.50	1000.4	129.2	151.64		
31.00	1000.3	129.1	151.63		
31.50	1002.1	130.8	151.61		
32.00	1002.7	131.4	151.59		
32.50	1003.8	132.5	151.57		
33.00	1004.2	132.9	151.57		
33.50	1004.8	133.5	151.56		
34.00	1005.4	134.1	151.53		
34.50	1005.8	134.5	151.51		
35.00	1006.7	135.5	151.51		
35.50	1007.2	136.0	151.49		
36.00	1007.8	136.6	151.48		
36.50	1009.0	137.7	151.46		
37.00	1009.8	138.6	151.44		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9811 DST#1 Whipple 1-636 Harris Oil & Gas Co.

DATE: 04/09/98 TIME: 15:56:40

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
37.50	1010.6	139.3	151.42		
38.00	1011.4	140.2	151.41		
38.50	1012.6	141.3	151.38		
39.00	1014.3	143.1	151.37		
39.50	1015.0	143.8	151.35		
40.00	1016.9	145.7	151.33		
40.50	1017.1	145.9	151.32		
41.00	1017.8	146.5	151.29		
41.50	1019.8	148.6	151.28		
42.00	1019.6	148.4	151.26		
42.50	1020.0	148.7	151.25		
43.00	1020.8	149.6	151.22		
43.50	1019.9	148.6	151.20		
44.00	1019.1	147.9	151.18		
44.50	1019.5	148.2	151.15		
45.00	1020.6	149.3	151.14		
45.50	1021.3	150.1	151.12		
46.00	1022.1	150.9	151.10		
46.50	1022.5	151.2	151.08		
47.00	1024.6	153.3	151.05		
47.50	1024.2	152.9	151.03		
48.00	1024.4	153.2	151.01		
48.50	1024.8	153.5	150.99		
49.00	1024.1	152.8	150.96		
49.50	1024.4	153.2	150.94		
50.00	1026.3	155.1	150.92		
50.50	1029.0	157.8	150.90		
51.00	1028.6	157.4	150.88		
51.50	1028.4	157.1	150.85		
52.00	1029.1	157.9	150.84		
52.50	1031.1	159.9	150.87		
53.00	1032.4	161.1	150.76		
53.50	1032.8	161.6	150.73		
54.00	1031.3	160.1	150.73		
54.50	1031.3	160.1	150.69		
55.00	1029.7	158.5	150.62		
55.50	1030.0	158.8	150.56		
56.00	1032.5	161.2	150.52		
56.50	1033.2	162.0	150.44		
57.00	1032.6	161.3	150.36		
57.50	1034.5	163.2	150.26		
58.00	1030.6	159.4	150.18		
58.50	1030.2	159.0	150.11		
59.00	1030.0	158.8	150.03		
59.50	1030.0	158.8	149.95		
60.00	1030.0	158.8	149.87		
***** End Flow 2					
***** Start Shutin 2	0.00	1030.0	0.0	149.87	0.0000 1.061
	0.50	1030.0	-0.1	149.81	178.0000 1.061
	1.00	1030.0	-0.1	149.75	89.5000 1.061
	1.50	1030.1	0.1	149.70	60.0000 1.061
	2.00	1030.2	0.2	149.66	45.2500 1.061

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9811 DST#1 Whipple 1-636 Harris Oil & Gas Co.

DATE: 04/09/98

TIME: 15:56:40

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
2.50	1030.2	0.2	149.64	36.4000	1.061
3.00	1030.3	0.3	149.61	30.5000	1.062
3.50	1030.4	0.3	149.59	26.2857	1.062
4.00	1030.4	0.3	149.58	23.1250	1.062
4.50	1030.5	0.4	149.57	20.6667	1.062
5.00	1030.5	0.5	149.57	18.7000	1.062
5.50	1030.6	0.6	149.57	17.0909	1.062
6.00	1030.8	0.8	149.56	15.7500	1.063
6.50	1030.8	0.8	149.56	14.6154	1.063
7.00	1030.8	0.8	149.55	13.6429	1.063
7.50	1031.0	0.9	149.55	12.8000	1.063
8.00	1031.0	0.9	149.55	12.0625	1.063
8.50	1031.1	1.1	149.54	11.4118	1.063
9.00	1031.2	1.2	149.53	10.8333	1.063
9.50	1031.2	1.2	149.53	10.3158	1.063
10.00	1031.3	1.3	149.52	9.8500	1.064
10.50	1031.4	1.3	149.52	9.4286	1.064
11.00	1031.6	1.6	149.51	9.0455	1.064
11.50	1031.6	1.6	149.50	8.6957	1.064
12.00	1031.7	1.7	149.49	8.3750	1.064
12.50	1031.8	1.8	149.49	8.0800	1.065
13.00	1031.9	1.8	149.48	7.8077	1.065
13.50	1031.9	1.8	149.46	7.5556	1.065
14.00	1032.0	1.9	149.46	7.3214	1.065
14.50	1032.1	2.1	149.45	7.1034	1.065
15.00	1032.1	2.1	149.44	6.9000	1.065
15.50	1032.1	2.1	149.42	6.7097	1.065
16.00	1032.4	2.3	149.41	6.5312	1.066
16.50	1032.4	2.3	149.40	6.3636	1.066
17.00	1032.4	2.3	149.39	6.2059	1.066
17.50	1032.6	2.5	149.38	6.0571	1.066
18.00	1032.5	2.4	149.37	5.9167	1.066
18.50	1032.5	2.4	149.35	5.7838	1.066
19.00	1032.7	2.7	149.34	5.6579	1.067
19.50	1032.6	2.5	149.33	5.5385	1.066
20.00	1032.8	2.8	149.32	5.4250	1.067
20.50	1032.8	2.8	149.31	5.3171	1.067
21.00	1032.9	2.9	149.29	5.2143	1.067
21.50	1032.9	2.9	149.27	5.1163	1.067
22.00	1032.7	2.7	149.27	5.0227	1.067
22.50	1032.9	2.9	149.25	4.9333	1.067
23.00	1032.9	2.9	149.24	4.8478	1.067
23.50	1033.1	3.0	149.23	4.7660	1.067
24.00	1033.2	3.2	149.21	4.6875	1.068
24.50	1033.2	3.2	149.21	4.6122	1.068
25.00	1033.2	3.2	149.19	4.5400	1.068
25.50	1033.3	3.3	149.17	4.4706	1.068
26.00	1033.5	3.4	149.16	4.4038	1.068
26.50	1033.5	3.4	149.14	4.3396	1.068
27.00	1033.6	3.5	149.13	4.2778	1.068
27.50	1033.6	3.6	149.12	4.2182	1.068

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9811 DST#1 Whipple 1-636 Harris Oil & Gas Co.

DATE: 04/09/98 TIME: 15:56:40

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
28.00	1033.6	3.6	149.11	4.1607	1.068
28.50	1033.7	3.7	149.10	4.1053	1.069
29.00	1033.8	3.8	149.08	4.0517	1.069
29.50	1033.8	3.8	149.07	4.0000	1.069
30.00	1033.9	3.9	149.05	3.9500	1.069
30.50	1033.7	3.7	149.05	3.9016	1.069
31.00	1034.0	3.9	149.03	3.8548	1.069
31.50	1034.0	3.9	149.01	3.8095	1.069
32.00	1034.1	4.0	149.01	3.7656	1.069
32.50	1034.2	4.1	148.99	3.7231	1.069
33.00	1034.2	4.1	148.98	3.6818	1.069
33.50	1034.1	4.0	148.97	3.6418	1.069
34.00	1034.0	3.9	148.96	3.6029	1.069
34.50	1034.2	4.2	148.95	3.5652	1.070
35.00	1034.3	4.3	148.94	3.5286	1.070
35.50	1034.3	4.3	148.92	3.4930	1.070
36.00	1034.6	4.5	148.92	3.4583	1.070
36.50	1034.5	4.4	148.91	3.4247	1.070
37.00	1034.5	4.4	148.90	3.3919	1.070
37.50	1034.5	4.4	148.89	3.3600	1.070
38.00	1034.5	4.4	148.88	3.3289	1.070
38.50	1034.5	4.4	148.88	3.2987	1.070
39.00	1034.7	4.6	148.86	3.2692	1.071
39.50	1034.7	4.7	148.86	3.2405	1.071
40.00	1034.8	4.8	148.85	3.2125	1.071
40.50	1034.9	4.9	148.85	3.1852	1.071
41.00	1034.9	4.9	148.85	3.1585	1.071
41.50	1034.9	4.9	148.83	3.1325	1.071
42.00	1035.0	5.0	148.82	3.1071	1.071
42.50	1035.0	5.0	148.82	3.0824	1.071
43.00	1035.0	5.0	148.80	3.0581	1.071
43.50	1035.0	5.0	148.80	3.0345	1.071
44.00	1035.0	5.0	148.79	3.0114	1.071
44.50	1035.1	5.0	148.79	2.9888	1.071
45.00	1035.2	5.1	148.78	2.9667	1.072
45.50	1035.2	5.2	148.77	2.9451	1.072
46.00	1035.2	5.2	148.76	2.9239	1.072
46.50	1035.2	5.2	148.75	2.9032	1.072
47.00	1035.2	5.2	148.74	2.8830	1.072
47.50	1035.2	5.2	148.74	2.8632	1.072
48.00	1035.4	5.4	148.73	2.8438	1.072
48.50	1035.6	5.5	148.72	2.8247	1.072
49.00	1035.6	5.5	148.71	2.8061	1.072
49.50	1035.7	5.7	148.70	2.7879	1.073
50.00	1035.7	5.7	148.70	2.7700	1.073
50.50	1035.7	5.7	148.69	2.7525	1.073
51.00	1035.7	5.7	148.68	2.7353	1.073
51.50	1035.7	5.7	148.67	2.7184	1.073
52.00	1035.7	5.7	148.66	2.7019	1.073
52.50	1035.7	5.7	148.65	2.6857	1.073
53.00	1035.8	5.8	148.64	2.6698	1.073

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9811 DST#1 Whipple 1-636 Harris Oil & Gas Co.

DATE: 04/09/98 TIME: 15:56:40

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
53.50	1035.8	5.8	148.63	2.6542	1.073
54.00	1035.8	5.8	148.63	2.6389	1.073
54.50	1036.0	6.0	148.61	2.6239	1.073
55.00	1036.0	6.0	148.61	2.6091	1.073
55.50	1036.0	6.0	148.61	2.5946	1.073
56.00	1036.0	6.0	148.59	2.5804	1.073
56.50	1036.1	6.0	148.59	2.5664	1.073
57.00	1036.1	6.0	148.58	2.5526	1.073
57.50	1036.2	6.1	148.58	2.5391	1.074
58.00	1036.3	6.3	148.56	2.5259	1.074
58.50	1036.2	6.1	148.56	2.5128	1.074
59.00	1036.2	6.2	148.55	2.5000	1.074
59.50	1036.2	6.2	148.55	2.4874	1.074
60.00	1036.4	6.4	148.53	2.4750	1.074
60.50	1036.5	6.5	148.53	2.4628	1.074
61.00	1036.5	6.5	148.52	2.4508	1.074
61.50	1036.5	6.5	148.52	2.4390	1.074
62.00	1036.6	6.5	148.50	2.4274	1.075
62.50	1036.6	6.5	148.49	2.4160	1.075
63.00	1036.6	6.5	148.48	2.4048	1.075
63.50	1036.6	6.5	148.48	2.3937	1.075
64.00	1036.5	6.5	148.47	2.3828	1.074
64.50	1036.5	6.5	148.47	2.3721	1.074
65.00	1036.7	6.6	148.46	2.3615	1.075
65.50	1036.8	6.8	148.45	2.3511	1.075
66.00	1037.1	7.0	148.44	2.3409	1.076
66.50	1036.9	6.9	148.43	2.3308	1.075
67.00	1036.8	6.8	148.42	2.3209	1.075
67.50	1037.1	7.0	148.42	2.3111	1.076
68.00	1037.1	7.0	148.41	2.3015	1.076
68.50	1037.0	7.0	148.40	2.2920	1.075
69.00	1037.2	7.1	148.40	2.2826	1.076
69.50	1037.0	7.0	148.39	2.2734	1.075
70.00	1037.2	7.1	148.39	2.2643	1.076
70.50	1037.2	7.1	148.37	2.2553	1.076
71.00	1037.3	7.2	148.37	2.2465	1.076
71.50	1037.3	7.3	148.36	2.2378	1.076
72.00	1037.4	7.4	148.35	2.2292	1.076
72.50	1037.2	7.1	148.35	2.2207	1.076
73.00	1037.3	7.2	148.35	2.2123	1.076
73.50	1037.3	7.3	148.34	2.2041	1.076
74.00	1037.3	7.3	148.33	2.1959	1.076
74.50	1037.4	7.4	148.33	2.1879	1.076
75.00	1037.4	7.4	148.31	2.1800	1.076
75.50	1037.4	7.4	148.31	2.1722	1.076
76.00	1037.5	7.5	148.30	2.1645	1.076
76.50	1037.5	7.5	148.31	2.1569	1.076
77.00	1037.5	7.5	148.30	2.1494	1.076
77.50	1037.5	7.5	148.29	2.1419	1.076
78.00	1037.4	7.4	148.28	2.1346	1.076
78.50	1037.4	7.4	148.28	2.1274	1.076

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9811 DST#1 Whipple 1-636 Harris Oil & Gas Co.

DATE: 04/09/98 TIME: 15:56:40

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
79.00	1037.4	7.4	148.27	2.1203	1.076
79.50	1037.6	7.6	148.26	2.1132	1.077
80.00	1037.7	7.6	148.26	2.1063	1.077
80.50	1037.8	7.7	148.25	2.0994	1.077
81.00	1037.8	7.8	148.24	2.0926	1.077
81.50	1037.7	7.6	148.24	2.0859	1.077
82.00	1037.8	7.8	148.23	2.0793	1.077
82.50	1037.8	7.8	148.22	2.0727	1.077
83.00	1037.8	7.7	148.22	2.0663	1.077
83.50	1037.8	7.7	148.21	2.0599	1.077
84.00	1038.0	8.0	148.21	2.0536	1.077
84.50	1038.1	8.1	148.20	2.0473	1.078
85.00	1037.9	7.9	148.19	2.0412	1.077
85.50	1038.1	8.1	148.19	2.0351	1.078
86.00	1038.3	8.2	148.19	2.0291	1.078
86.50	1038.3	8.2	148.18	2.0231	1.078
87.00	1038.2	8.1	148.17	2.0172	1.078
87.50	1038.1	8.1	148.17	2.0114	1.078
88.00	1038.3	8.2	148.16	2.0057	1.078
88.50	1038.1	8.1	148.16	2.0000	1.078
89.00	1038.3	8.2	148.15	1.9944	1.078
89.50	1038.3	8.2	148.15	1.9888	1.078
90.00	1038.2	8.1	148.14	1.9833	1.078
90.50	1038.2	8.1	148.14	1.9779	1.078
91.00	1038.3	8.3	148.13	1.9725	1.078
91.50	1038.3	8.3	148.12	1.9672	1.078
92.00	1038.3	8.3	148.12	1.9620	1.078
92.50	1038.3	8.3	148.12	1.9568	1.078
93.00	1038.3	8.3	148.11	1.9516	1.078
93.50	1038.3	8.2	148.11	1.9465	1.078
94.00	1038.3	8.2	148.10	1.9415	1.078
94.50	1038.3	8.2	148.09	1.9365	1.078
95.00	1038.3	8.2	148.10	1.9316	1.078
95.50	1038.3	8.2	148.09	1.9267	1.078
96.00	1038.3	8.2	148.08	1.9219	1.078
96.50	1038.4	8.4	148.08	1.9171	1.078
97.00	1038.4	8.4	148.07	1.9124	1.078
97.50	1038.4	8.4	148.07	1.9077	1.078
98.00	1038.4	8.4	148.06	1.9031	1.078
98.50	1038.5	8.5	148.06	1.8985	1.079
99.00	1038.5	8.5	148.06	1.8939	1.079
99.50	1038.7	8.6	148.05	1.8894	1.079
100.00	1038.7	8.6	148.04	1.8850	1.079
100.50	1038.5	8.5	148.04	1.8806	1.079
101.00	1038.4	8.4	148.03	1.8762	1.078
101.50	1038.4	8.4	148.03	1.8719	1.078
102.00	1038.7	8.6	148.03	1.8676	1.079
102.50	1038.7	8.6	148.02	1.8634	1.079
103.00	1038.8	8.7	148.01	1.8592	1.079
103.50	1038.8	8.7	148.02	1.8551	1.079
104.00	1038.8	8.8	148.00	1.8510	1.079

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9811 DST#1 Whipple 1-636 Harris Oil & Gas Co.

DATE: 04/09/98

TIME: 15:56:40

	Time	Pressure	delta P	Temp.	(T+dT)/dT	P ² /10 ⁶
		PSig	PSig	DEG F		
	104.50	1038.8	8.8	148.01	1.8469	1.079
	105.00	1038.8	8.8	148.00	1.8429	1.079
	105.50	1038.8	8.8	148.00	1.8389	1.079
	106.00	1038.8	8.8	147.99	1.8349	1.079
	106.50	1038.8	8.7	147.99	1.8310	1.079
	107.00	1038.8	8.7	147.98	1.8271	1.079
	107.50	1039.0	9.0	147.98	1.8233	1.080
	108.00	1039.0	9.0	147.98	1.8194	1.080
	108.50	1038.6	8.6	147.97	1.8157	1.079
	109.00	1038.8	8.7	147.97	1.8119	1.079
	109.50	1038.8	8.7	147.97	1.8082	1.079
	110.00	1038.7	8.6	147.96	1.8045	1.079
	110.50	1038.7	8.6	147.96	1.8009	1.079
	111.00	1038.7	8.6	147.95	1.7973	1.079
	111.50	1038.9	8.9	147.95	1.7937	1.079
	112.00	1038.8	8.8	147.94	1.7902	1.079
	112.50	1038.7	8.6	147.94	1.7867	1.079
	113.00	1038.8	8.7	147.93	1.7832	1.079
	113.50	1038.8	8.7	147.93	1.7797	1.079
	114.00	1038.9	8.9	147.92	1.7763	1.079
	114.50	1038.9	8.9	147.92	1.7729	1.079
	115.00	1039.1	9.1	147.92	1.7696	1.080
	115.50	1039.1	9.1	147.92	1.7662	1.080
***** End Shut-in 2	116.00	1039.1	9.1	147.92	1.7629	1.080
***** Final Hydro.	430.50	2636.6	0.0	147.27		

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 9811 Date 4-9-98
Company Name Harris Gas + Oil
Lease Whipple 1-636 Test No. 1
County Stanton Sec. 36 Twp. 29s Rng. 40w

SAMPLER RECOVERY

Gas 600 ML
Oil _____ ML
Mud _____ ML
Water 3400 ML
Other _____ ML
Pressure 800 PSI
Total 4000 ML

PIT MUD ANALYSIS

Chlorides 42,000 ppm.
Resistivity 0.38 ohms @ 32° F
Viscosity 62
Mud Weight 9.1
Filtrate 8.0
Other _____

SAMPLER ANALYSIS

Resistivity 0.38 ohms @ 32° F
Chlorides 42,000 ppm.
Gravity 38 corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
BOTTOM
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 9811

Well Name & No. <u>Whipple 1-636</u>	Test No. <u>#1</u>	Date <u>4-9-98</u>
Company <u>Harris Oil & Gas Company</u>	Zone Tested <u>St. Louis B.</u>	
Address <u>1125 17th St. Suite 2290 Denver CO. 80202</u>	Elevation <u>3249</u> KB <u>2235</u> GL	
Co. Rep / Geo. <u>Austin Garner</u>	Cont. <u>Allen Rig 5</u>	Est. Ft. of Pay <u>6</u> Por. <u>15%</u>
Location: Sec. <u>36</u> Twp. <u>29S</u> Rge. <u>40 W</u> Co. <u>Stanton</u> State <u>Ks.</u>		
No. of Copies _____	Distribution Sheet (Y, N) _____	Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 5600-5635 <u>5601-5644</u>	Initial Str Wt./Lbs. <u>86,000</u>	Unseated Str Wt./Lbs. <u>96,000</u>
Anchor Length <u>43'</u>	Wt. Set Lbs. <u>30,000</u>	Wt. Pulled Loose/Lbs. <u>118,000</u>
Top Packer Depth <u>5635</u>	Tool Weight <u>2000</u>	
Bottom Packer Depth <u>5640</u>	Hole Size — 7 7/8" <input checked="" type="checkbox"/>	Rubber Size — 6 3/4" <input checked="" type="checkbox"/>
Total Depth <u>5643</u>	Wt. Pipe Run _____	Drill Collar Run <u>558</u>
Mud Wt. <u>9.1</u> LCM <u>4</u> Vis. <u>62</u> WL <u>8.0</u>	Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>5020</u>

Blow Description Strong Blow B.O.B. in 30 sec. G.T.S. in 5 min.
I.S.I. Blow never died out
2nd open Strong Blow B.O.B. as soon as open tool
E.S.E. Blow never died out

Recovery — Total Feet <u>2260</u>	GIP <u>3318</u>	Ft. in DC <u>558</u>	Ft. in DP <u>1702</u>
Rec. <u>20</u> Feet Of <u>Clean Gassy Oil</u>	<u>20</u> %gas	<u>80</u> %oil	%water %mud
Rec. <u>135</u> Feet Of <u>Gassy Mudcut Oil</u>	<u>18</u> %gas	<u>44</u> %oil	%water <u>38</u> %mud
Rec. <u>80</u> Feet Of <u>oil & Gas cut W. Mud</u>	<u>4</u> %gas	<u>4</u> %oil	<u>14</u> %water <u>50</u> %mud
Rec. <u>2025</u> Feet Of <u>Gassy Water</u>	<u>5</u> %gas	%oil	<u>95</u> %water %mud
Rec. _____ Feet Of _____	%gas	%oil	%water %mud

BHT 136 °F Gravity 36 °API D@ 40 °F Corrected Gravity 38 at 60° °API

RW 0.38 @ 32 °F Chlorides 42,000 ppm Recovery Chlorides 1,000 ppm System

(A) Initial Hydrostatic Mud	<u>2690</u> PSI	Recorder No. <u>51749</u>	T-Started <u>7:15 P.M.</u>
(B) First Initial Flow Pressure	<u>632</u> PSI	(depth) <u>5602</u>	T-Open <u>10:07 P.M.</u>
(C) First Final Flow Pressure	<u>836</u> PSI	Recorder No. <u>13769</u>	T-Pulled <u>2:37 A.M.</u>
(D) Initial Shut-in Pressure	<u>1036</u> PSI	(depth) <u>5638</u>	T-Out <u>7:00 A.M.</u>
(E) Second Initial Flow Pressure	<u>871</u> PSI	Recorder No. _____	
(F) Second Final Flow Pressure	<u>1000</u> PSI	(depth) _____	
(G) Final Shut-in Pressure	<u>1032</u> PSI	Initial Opening <u>30</u>	Test <input checked="" type="checkbox"/> <u>Conventional</u> \$900 ⁰⁰
(H) Final Hydrostatic Mud	<u>2608</u> PSI	Initial Shut-in <u>60</u>	Jars <input checked="" type="checkbox"/> <u>\$260.00</u>
		Final Flow <u>60</u>	Safety Joint <input checked="" type="checkbox"/> <u>\$150.00</u>
		Final Shut-in <u>120</u>	Straddle _____
			Circ. Sub <input checked="" type="checkbox"/> <u>n/c</u>
			Sampler <input checked="" type="checkbox"/> <u>200⁹⁸</u>
			Extra Packer _____
			Elect. Rec. <input checked="" type="checkbox"/> <u>\$160⁰⁰</u>
			Other _____

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Approved By Larry G. Benedict