

15-081-20985

32-28s-33w

Well Name:	WHEATLEY #A-1		
Company :	HELMERICH & PAYNE INC		
Location - Sec:	32	Twp:	28S
County:	HASKELL	State:	KS
Date:	01/03/96		

TRILOBITE TESTING L.L.C.

OPERATOR : Helmerich & Payne Inc.

DATE 1-3-96

WELL NAME: Wheatley #A-1

KB 0.00 ft

TICKET NO: 8272 DST #1

LOCATION : 32-28S-33W Haskell Cty KS

GR 3010.00 ft

FORMATION: Chester

INTERVAL : 5410.00 To 5457.00 ft

TD 5457.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 15 Rec.	2836	2836	2350			PF Fr. 0149 to 0204 hr
SI 60 Range(Psi)	3500.0	3500.0	4995.0	0.0	0.0	IS Fr. 0204 to 0304 hr
SF 60 Clock(hrs)	AK-1	AK-1	Alpin			SF Fr. 0304 to 0404 hr
FS 120 Depth(ft)	5454.0	5454.0	5412.0	0.0	0.0	FS Fr. 0404 to 0604 hr

	Field	1	2	3	4	
A. Init Hydro	0.0	2717.0	2474.0	0.0	0.0	T STARTED 1100 hr
B. First Flow	0.0	45.0	21.0	0.0	0.0	T ON BOTM 0147 hr
B1. Final Flow	0.0	39.0	28.0	0.0	0.0	T OPEN 0149 hr
C. In Shut-in	0.0	1007.0	1064.0	0.0	0.0	T PULLED 0604 hr
D. Init Flow	0.0	60.0	21.0	0.0	0.0	T OUT 1015 hr
E. Final Flow	0.0	60.0	19.0	0.0	0.0	
F. Fl Shut-in	0.0	984.0	1039.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	0.0	2441.0	2422.0	0.0	0.0	Tool Wt. 18000.00 lbs
Inside/Outside	O	O	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 160000.00 lbs
						Initial Str Wt 100000.00 lbs
						Unseated Str Wt 80000.00 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 638.00 ft
						D.P. Length 4764.00 ft

RECOVERY

Tot Fluid 0.00 ft of 0.00 ft in DC and 0.00 ft in DP
Drilling Mud in top of shutin tool w/ specks
of oil.

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

BLOW DESCRIPTION

Initial Flow -

Fair surface blow built to bottom of
bucket in 10 min

Initial Shutin -

2" wouldn't bleed off; Gas to surface
in 33 min, gas will burn

Final Flow -

Very strong blow, bottom of bucket as
soon as open tool

Final Shutin -

2" wouldn't bleed off throughout

SAMPLES: yes 1

SENT TO: Caraway, Liberal KS

MUD DATA-----

Mud Type	Chemical
Weight	9.00 lb/cf
Vis.	55.00 S/L
W.L.	7.20 in3
F.C.	0.00 in
Mud Drop Y	10.0 ft
Amt. of fill	0.00 ft
Btm. H. Temp.	126.00 F
Hole Condition	Good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Mike Colantonio
Co. Rep.	Robert G. Owens
Contr.	Cheyenne Drlg.
Rig #	4
Unit #	
Pump T.	

Test Successful: Y

GAS RECOVERY

COMPANY: Helmerch & Payne Inc.

DATE: 1-3-96

WELL NAME: Wheatley # A-1

KB Elev: 0.00 ft TICKET #8272 DST #1

WELL LOCATION: 32-28S-33W

GR Elev: 3010.00 ft FORMATION: Chester

INTERVAL Fr.: 5410.00 To 5457.00 T.D.: 5457.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Merla

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
5	0.38	0	42	23100.0
10	0.38	0	20	15900.0
15	0.38	0	15	13900.0
20	0.38	0	20	15900.0
25	0.38	0	14	13400.0
30	0.38	0	20	15900.0
35	0.38	0	32	20100.0
40	0.38	0	28	18800.0
45	0.38	0	26	18100.0
50	0.38	0	24	17400.0
55	0.38	0	26	18100.0
60	0.38	0	20	15900.0

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, L.L.C.
728 North Roosevelt
Liberal, Kansas 67901
Phone: 316-624-5389
Fax: 316-626-7108

Lab Number: 960006
Sample From: Wheatley A-1 DST 1
Producer: Helmerich & Payne
Date:
Time:
Sampler:
Source:

Analyzed: 01/08/96
Pressure:
Temperature:
Location: 32-285-33W
County: Haskell
State: Kansas
Formation: Chester

	Mole %	GPM
Helium	He: 0.474	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 16.540	0.000
Carbon Dioxide	CO2: 0.240	0.000
Methane	C1: 71.678	0.000
Ethane	C2: 5.429	1.452
Propane	C3: 2.998	0.826
Iso Butane	iC4: 0.543	0.178
Normal Butane	nC4: 0.890	0.281
Iso Pentane	iC5: 0.266	0.097
Normal Pentane	nC5: 0.303	0.110
Hexanes Plus	C6+: 0.639	0.279

TOTAL: 100.000 3.222
Z Fact: 0.9976
SP.GR.: 0.7286
BTU (SAT): 984.9 @ 14.73 psia
BTU (DRY): 1002.4 @ 14.73 psia
OCTANE RATING: 103.5

COMMENTS: Sample entered under vacuum 0.000

TEST HISTORY

8272 DST #1 Wheatley #A-1 Helmerich & Payne

Flag Points

t (Min.) PK PSig

A:	0.00	2474.02
B:	0.00	21.48
C:	14.00	27.86
D:	18.00	1063.69
E:	0.00	28.89
F:	56.00	18.62
G:	88.00	1038.77
Q:	0.00	2421.58

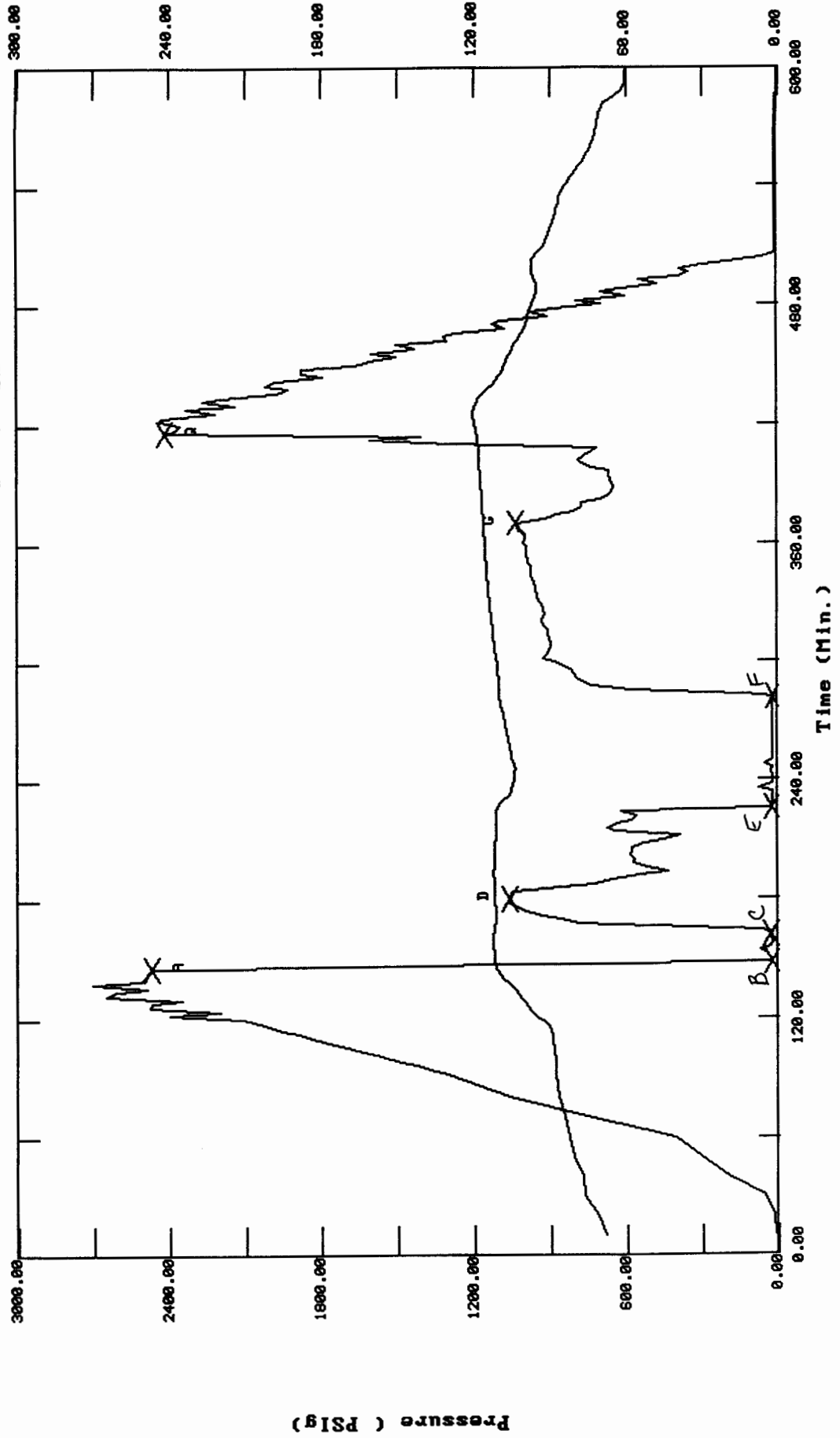
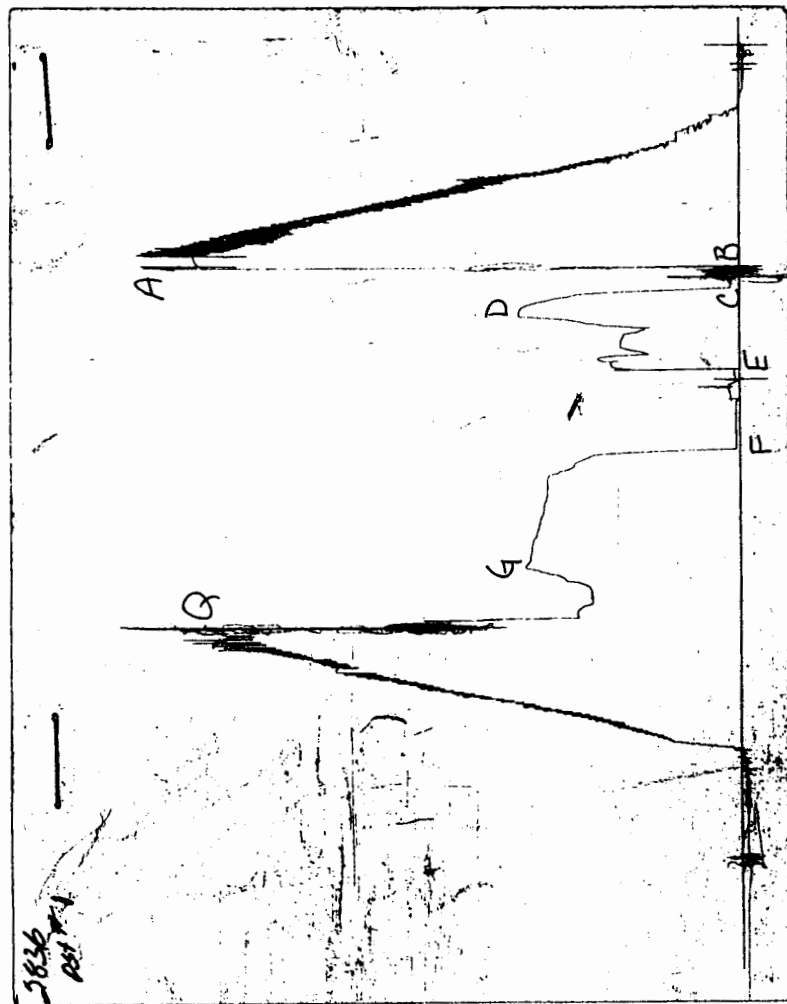


CHART PAGE



This is an actual photograph of recorder chart

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8272 DST #1 Wheatley #A-1 Helmerich & Payne

DATE: 01/03/96 TIME: 23:31:20

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	146.00	2474.0	0.0	111.59		
***** Start Flow 1	0.00	21.5	0.0	111.99		
	2.00	36.5	15.0	112.20		
	4.00	36.8	15.3	112.23		
	6.00	68.2	46.7	112.32		
	8.00	28.4	6.9	112.50		
	10.00	20.2	-1.3	112.84		
	12.00	27.4	6.0	112.96		
***** End Flow 1	14.00	27.9	6.4	112.71		
***** Start Shutin 1	0.00	27.9	0.0	112.71	0.0000	0.001
	2.00	58.4	30.5	112.29	8.0000	0.003
	4.00	495.3	467.5	111.91	4.5000	0.245
	6.00	788.4	760.6	111.72	3.3333	0.622
	8.00	859.9	832.1	111.65	2.7500	0.739
	10.00	934.2	906.3	111.65	2.4000	0.873
	12.00	993.9	966.0	111.70	2.1667	0.988
	14.00	1039.2	1011.3	111.76	2.0000	1.080
	16.00	1063.0	1035.2	111.86	1.8750	1.130
***** End Shut-in 1	18.00	1063.7	1035.8	111.95	1.7778	1.131
***** Start Flow 2	0.00	20.9	0.0	111.07		
	2.00	23.2	2.3	110.06		
	4.00	22.7	1.8	108.49		
	6.00	21.1	0.2	106.76		
	8.00	19.0	-1.8	105.59		
	10.00	75.8	54.9	105.23		
	12.00	21.5	0.6	104.77		
	14.00	23.2	2.4	104.46		
	16.00	20.7	-0.2	104.21		
	18.00	27.8	6.9	104.01		
	20.00	19.4	-1.5	103.92		
	22.00	53.4	32.5	104.20		
	24.00	20.6	-0.3	104.77		
	26.00	21.1	0.2	105.20		
	28.00	21.5	0.6	105.53		
	30.00	21.5	0.6	105.84		
	32.00	21.5	0.6	106.16		
	34.00	24.1	3.2	106.49		
	36.00	21.8	0.9	106.81		
	38.00	22.3	1.4	107.12		
	40.00	21.5	0.6	107.42		
	42.00	21.1	0.2	107.74		
	44.00	21.1	0.2	108.07		
	46.00	21.4	0.5	108.43		
	48.00	21.1	0.3	108.76		
	50.00	20.4	-0.5	109.10		
	52.00	20.8	-0.1	109.42		
	54.00	19.0	-1.9	109.74		
***** End Flow 2	56.00	18.6	-2.3	110.04		
***** Start Shutin 2	0.00	18.6	0.0	110.04	0.0000	0.000
	2.00	136.1	117.5	110.35	36.0000	0.019
	4.00	579.1	560.5	110.53	18.5000	0.335

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8272 DST #1 Wheatley #A-1 Helmerich & Payne

DATE: 01/03/96

TIME: 23:31:20

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	6.00	734.7	716.1	110.55	12.6667	0.540
	8.00	764.0	745.4	110.54	9.7500	0.584
	10.00	794.5	775.8	110.59	8.0000	0.631
	12.00	810.1	791.4	110.69	6.8333	0.656
	14.00	815.1	796.5	110.83	6.0000	0.664
	16.00	850.8	832.1	111.00	5.3750	0.724
	18.00	885.9	867.3	111.20	4.8889	0.785
	20.00	930.8	912.1	111.41	4.5000	0.866
	22.00	909.1	890.5	111.61	4.1818	0.826
	24.00	903.3	884.7	111.82	3.9167	0.816
	26.00	900.0	881.4	112.02	3.6923	0.810
	28.00	900.8	882.2	112.22	3.5000	0.811
	30.00	902.6	884.0	112.43	3.3333	0.815
	32.00	908.3	889.7	112.63	3.1875	0.825
	34.00	913.7	895.1	112.82	3.0588	0.835
	36.00	923.4	904.7	113.00	2.9444	0.853
	38.00	935.2	916.6	113.19	2.8421	0.875
	40.00	937.0	918.4	113.36	2.7500	0.878
	42.00	925.2	906.6	113.53	2.6667	0.856
	44.00	926.7	908.1	113.68	2.5909	0.859
	46.00	931.5	912.9	113.85	2.5217	0.868
	48.00	939.4	920.8	114.02	2.4583	0.882
	50.00	952.6	933.9	114.17	2.4000	0.907
	52.00	953.2	934.5	114.31	2.3462	0.909
	54.00	959.5	940.8	114.45	2.2963	0.921
	56.00	961.7	943.1	114.58	2.2500	0.925
	58.00	966.1	947.5	114.72	2.2069	0.933
	60.00	969.5	950.9	114.84	2.1667	0.940
	62.00	974.0	955.4	114.96	2.1290	0.949
	64.00	976.8	958.2	115.07	2.0938	0.954
	66.00	975.6	956.9	115.19	2.0606	0.952
	68.00	989.7	971.0	115.30	2.0294	0.979
	70.00	991.1	972.5	115.42	2.0000	0.982
	72.00	995.1	976.5	115.53	1.9722	0.990
	74.00	993.2	974.6	115.64	1.9459	0.986
	76.00	995.8	977.2	115.74	1.9211	0.992
	78.00	1004.4	985.7	115.84	1.8974	1.009
	80.00	998.6	980.0	115.94	1.8750	0.997
	82.00	998.3	979.7	116.05	1.8537	0.997
	84.00	1025.7	1007.0	116.16	1.8333	1.052
	86.00	1032.8	1014.2	116.25	1.8140	1.067
***** End Shut-in 2	88.00	1038.8	1020.1	116.36	1.7955	1.079
***** Final Hydro.	416.00	2421.6	0.0	119.02		

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Wheatley #A-1

LOCATION : 32-28S-33W Haskell Cty KS

TICKET No. 8272 D.S.T. No. 1 DATE 1-3-96

TOTAL TOOL TO BOTTOM OF TOP PACKERS 32ft.

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 17ft.

TOTAL TOOL 49ft.

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STAND.Stands Single 1 Total 30ft.

D.P. ANCHOR STAND.Stands Single Total

TOTAL ASSEMBLY 79ft.

D.C. ABOVE TOOLS.Stands10 Single 1 Total 638ft.

D.P. ABOVE TOOLS.Stands76 Single 1 Total 4764ft.

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5481ft.

TOTAL DEPTH 5457ft.

TOTAL DRILL PIPE ABOVE K.B. 24ft.

REMARKS:

FLUID SAMPLER DATA

SAMPLER RECOVERY -

Gas 7.2 cu ft, Press 350 PSI, Total 4000 ml

PIT MUD ANALYSIS -

Chlorides 1000 ppm, Viscosity 55,
Mud Weight 9, Filtrate 7.2, LCM 2#

P.O. SUB	
C.O. SUB 1ft.	5378
S.I. TOOL 5ft.	5384
3ft. Sampler	5387
HMV 5ft. Hyd. Tool	5392
JARS 7ft.	5399
SAFETY JOINT 2ft.	5401
PACKER 5ft.	5405
PACKER 5ft.	5410
DEPTH 5410	
STUBB 1'	5411
ANCHOR	
6ft. Pick up sub.	5417
Alpine Rec.	5417
3ft. Perf	5420
1ft. C/o sub.	5421
T.C.	
DEPTH	
30ft. Drlg. Collar	5451
1ft. Double Pin	5452
1ft. Hanger sub.	5453
1ft. Perf	5454
AK-1 Recorder	5454
BULLNOSE 3ft. Bull plug	
T.D.	5457

Well name Wheatley

DST # 1

Recorder # 2836

A	31.04	2717	
B	.052	45	
C	.046	39	
D	1.172	1087	
E	.070	60	
F	.070	60	
G	1.146	984	
H	2800	2441	
0			
1			
2			

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 8272

Well Name & No.	<u>Wheatley # A-1</u>		Test No.	<u>1</u>	Date	<u>1-3-96</u>
Company	<u>Helmerich & Payne Inc.</u>		Zone Tested	<u>Chester</u>		
Address	<u>1579 E 21st Street Tulsa OK 74114-1303</u>		Elevation	<u>3010 GA</u>		
Co. Rep./Geo.	<u>Robert C. Owens</u>	Cont.	<u>Cheyenne Drilling #4</u>	Est. Ft. of Pay	<u>10</u>	
Location: Sec.	<u>32</u>	Twp.	<u>28S</u>	Rge.	<u>33W</u>	Co. <u>Haskell</u> State <u>KS</u>
No. of Copies	<u>5?</u>	Distribution Sheet	Yes <u>X</u> No <u>Turnkey</u>	Yes <u>X</u> No <u>Evaluation</u>		

Interval Tested	<u>5410-5457</u>	Drill Pipe Size	<u>4 1/2 F-Hole</u>
Anchor Length	<u>47'</u>	Top Choke — 1" —	Bottom Choke — 3/4" —
Top Packer Depth	<u>5405</u>	Hole Size — 77/8" —	Rubber Size — 6 3/4" —
Bottom Packer Depth	<u>5410</u>	Wt. Pipe I.D. — 2.7 Ft. Run	
Total Depth	<u>5457</u>	Drill Collar — 2.25 Ft. Run	<u>638'</u>
Mud Wt.	<u>9.0</u>	lb/gal.	Viscosity <u>55</u> Filtrate <u>7.2</u>

Tool Open @ 1:49 AM Initial Blow Fair Surface blow Built to B.O.B in 10 min.
F.S.I 2in Wouldn't bleed off G.T.S. 33 min into shut-in.
 Final Blow Very Strong blow B.O.B soon as open took
F.S.I 2in Wouldn't bleed off thought

Recovery — Total Feet		Feet of Gas in Pipe		Flush Tool?	NO	
Rec.	Feet Of	Mud in top of	%gas	%oil	%water	%mud
Rec.	Feet Of	Shut in tool with	%gas	%oil	%water	%mud
Rec.	Feet Of	Spec of oil.	%gas	%oil	%water	%mud
Rec.	Feet Of		%gas	%oil	%water	%mud
Rec.	Feet Of		%gas	%oil	%water	%mud

BHT 126 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 4000 ppm System

(A) Initial Hydrostatic Mud	<u>2707</u>	PSI	AK1 Recorder No.	<u>2350</u>	Range	<u>4,995</u>
(B) First Initial Flow Pressure	<u>21</u>	PSI	@ (depth)	<u>5412</u>	W/Clock No.	<u>Electronic</u>
(C) First Final Flow Pressure	<u>20</u>	PSI	AK1 Recorder No.	<u>2836</u>	Range	<u>3,500</u>
(D) Initial Shut-In Pressure	<u>1063</u>	PSI	@ (depth)	<u>5454</u>	W/Clock No.	<u>23935</u>
(E) Second Initial Flow Pressure	<u>23</u>	PSI	AK1 Recorder No.		Range	
(F) Second Final Flow Pressure	<u>18</u>	PSI	@ (depth)		W/Clock No.	
(G) Final Shut-In Pressure	<u>1038</u>	PSI	Initial Opening	<u>15 min</u>	Test	<u>Conventional</u> <u>500</u>
(H) Final Hydrostatic Mud	<u>2836</u>	PSI	Initial Shut-In	<u>60 min.</u>	Jars	<u>200</u>

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 Allen F. Dick
 Our Representative M. Colaninno

Final Flow 60 min. Safety Joint ✓ 50
 Final Shut-In 120 min. Straddle ✓
 Circ. Sub ✓ N/C
 Sampler ✓ N/C
 Extra Packer _____
 Other Electronic Rec. ✓ 150
 TOTAL PRICE \$ 900



GAS VOLUME REPORT

Helmerich & Payne Inc.
OPERATOR

Wheatley #A-1

WELL NAME AND NO.

DST NO.

Remarks:

Gas Will Burn.

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 8272 Date 1-3-96
Company Name Helmreich & Payne Inc.
Lease Wheatley #A-1 Test No. Dst #1
County Haskell Kansas Sec. 32 Twp. 28S Rng. 33W

SAMPLER RECOVERY

Gas 7.2 cubic Ft. ML
Oil _____ ML
Mud _____ ML
Water _____ ML
Other _____ ML
Pressure 350 PSI
Total 4,000 ML

PIT MUD ANALYSIS

Chlorides 4000 ppm.
Resistivity _____ ohms @ _____ F
Viscosity 55
Mud Weight 9.0
Filtrate 7.2
Other LCM 2

SAMPLER ANALYSIS

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
Gravity _____ corrected @ 60 F

PIPE RECOVERY

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