

15-033-21106

TRILOBITE TESTING L.L.C.

12-32s-18w

OPERATOR : Pelican Hill Oil & Gas
 WELL NAME: Miller #1-12
 LOCATION : 12-32s-18w Comanche co KS
 INTERVAL : 4960.00 To 4993.00 ft

DATE 07-07-000
 KB 2070.00 ft TICKET NO: 12868 DST #1
 GR 2058.00 ft FORMATION: Altamont
 TD 4993.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10248	10248	2342			PF Fr. 1718 to 1748 hr
SI 60 Range(Psi)	4400.0	4400.0	4995.0	0.0	0.0	IS Fr. 1748 to 1848 hr
SF 45 Clock(hrs)	12 hr	12 hr	batt.			SF Fr. 1848 to 1933 hr
FS 90 Depth(ft)	4990.0	4990.0	4966.0	0.0	0.0	FS Fr. 1933 to 2103 hr

	Field	1	2	3	4	
A. Init Hydro	2536.0	2523.0	2518.0	0.0	0.0	T STARTED 1511 hr
B. First Flow	89.0	91.0	90.0	0.0	0.0	T ON BOTM 1712 hr
B1. Final Flow	85.0	91.0	79.0	0.0	0.0	T OPEN 1718 hr
C. In Shut-in	1817.0	1824.0	1821.0	0.0	0.0	T PULLED 2105 hr
D. Init Flow	89.0	91.0	97.0	0.0	0.0	T OUT 2300 hr
E. Final Flow	82.0	82.0	75.0	0.0	0.0	
F. Fl Shut-in	1824.0	1829.0	1830.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2437.0	2481.0	2484.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	O	O	I	T		Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 110000.00 lbs
						Initial Str Wt 83000.00 lbs
						Unseated Str Wt 83000.00 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 270.00 ft
						D.P. Length 4675.00 ft

RECOVERY

Tot Fluid 110.00 ft of 110.00 ft in DC and 0.00 ft in DP
 0.00 ft of Gas in all fluid free pipe.
 110.00 ft of Drilling mud
 0.00 ft of 100% mud
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of Rw n.c. ohms @ degrees F.
 0.00 ft of EST.FT. of PAY-----7
 SALINITY 6000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
 Strong blow. Gas to surface in 6 minutes. (see gas volume report)
 Initial Shut-In:
 No blow.
 Final Flow:
 Strong blow. (see gas volume report)

Final Shut-In:

No blow.

SAMPLES: Gas sample

SENT TO: Caraway/Liberal

MUD DATA-----

Mud Type	Chemical
Weight	9.20 lb/c
Vis.	50.00 S/L
W.L.	10.40 in3
F.C.	0.20 in
Mud Drop N	

Amt. of fill	0.00 ft
Btm. H. Temp.	116.00 F
Hole Condition	good
% Porosity	16.00
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.	Al Downing
Contr.	Abercrombie Drlg
Rig #	4
Unit #	
Pump T.	LCM 3 #/bl

Test Successful: Y

■ ■ ■ ■ ■

DATE: 07-07-000

KB Elev: 2070.00 ft TICKET #12868 DST #1

GR Elev: 2058.00 ft FORMATION: Altamont

INTERVAL Fr.: 4960.00 To 4993.00 T.D.: 4993.00 ft TEST TYPE: CONVENTIONAL

***** GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
10	0.75	6	0	299500.0
20	0.75	8	0	328600.0
30	0.75	10	0	357500.0

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
10	0.75	13	0	401300.0
20	0.75	14	0	415800.0
30	0.75	14	0	415800.0
40	0.75	14	0	415800.0

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Miller #1-12

LOCATION : 12-32s-18w Comanche co KS

TICKET No. 12868 D.S.T. No. 1 DATE 07-07-000

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 33

TOTAL TOOL 60

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands	Single	Total
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D.P. ANCHOR STND.Stands	Single	Total
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TOTAL ASSEMBLY 60

D.C. ABOVE TOOLS.Stands3	Single	Total 270
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D.P. ABOVE TOOLS.Stands50 Single 1 Total 4675

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5005

TOTAL DEPTH 4993

TOTAL DRILL PIPE ABOVE K.B. 12

REMARKS :

Comments:

FLUID SAMPLER DATA (not run)

GAS----- cubic ft

OIL-----ML.

MUD-----ML.

WATER-----ML.

OTHER-----

PRESSURE-----PSI

Rw ----- ohms @ deg. F.

CHLORIDES-----ppm.

GRAVITY-----deg.API

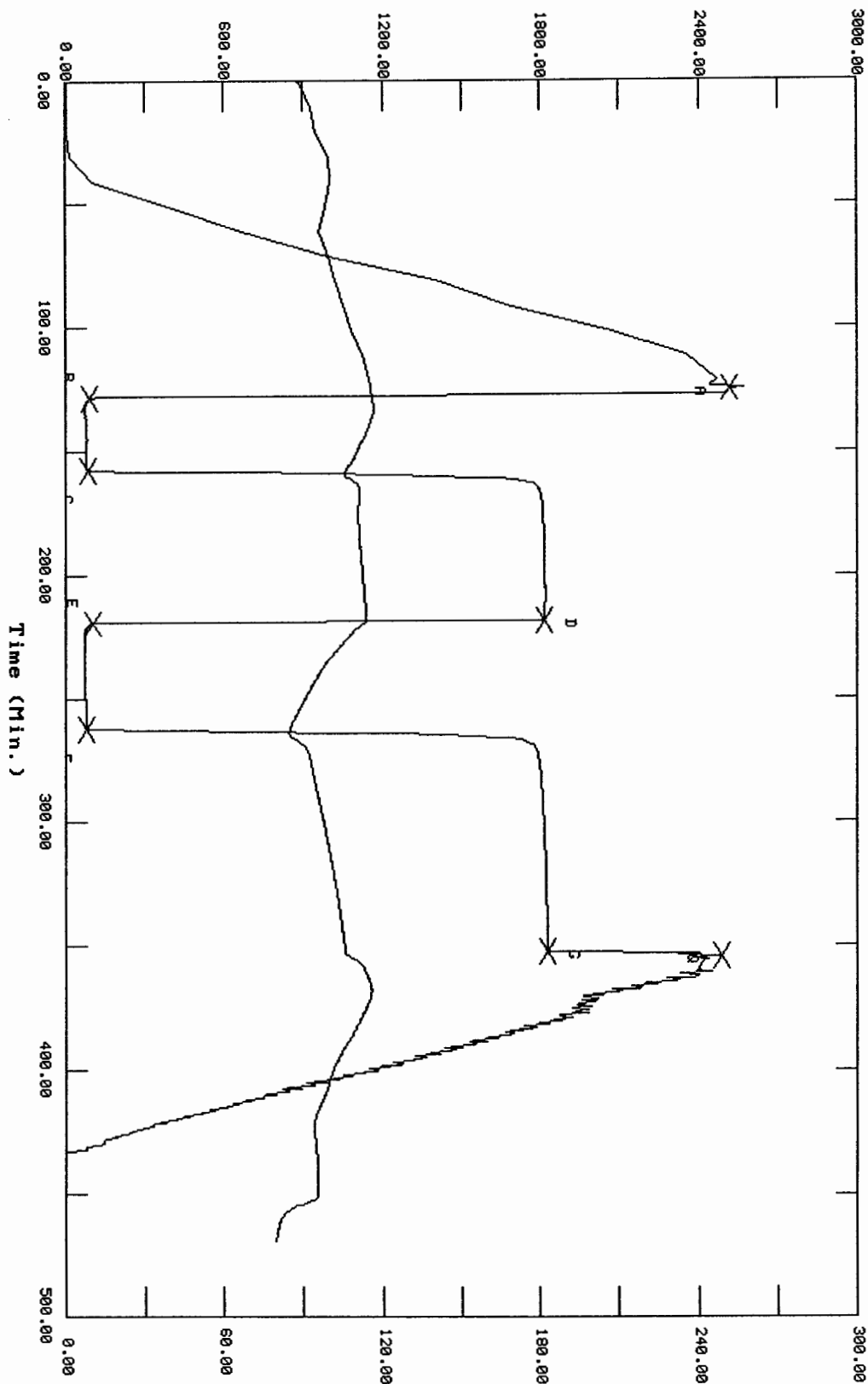
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TEST HISTORY

12868 DST#1 MILLER #1-12 PELICAN HILL OIL & GAS

Flag Points

t(min.)	P (PSig)
A: 0.00	2517.74
B: 0.00	90.30
C: 29.00	78.88
D: 61.00	1820.80
E: 0.00	97.35
F: 43.00	75.27
G: 90.00	1830.12
H: 0.00	2484.17



Pressure (PSig)

Temperature (DEG F)

Time (Min.)

722 12868
X100240 51

A hand-drawn sketch of a rectangular structure, possibly a cross-section or a plan view. The structure consists of a central vertical line and two horizontal lines extending from the top and bottom. The left horizontal line is labeled 'E' and the right horizontal line is labeled 'B'. The top and bottom horizontal lines are labeled 'D' and 'G' respectively. The sketch is drawn on a piece of paper with a vertical crease and some faint markings.

TEL 12868
X 10248



P.O. Box 362 • Hays, Kansas 67601 • (913) 625-4778

GAS VOLUME REPORT

Pelican Hill Oil & Gas

Miller # 1-12

1
DST NO.

Initial Open

Final Open

[illegible]

Remarks:

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

N^o 12868

Well Name & No.	Miller # 1-12	Test No.	1	Date	7-7-2000
Company	Pelican Hill Oil & Gas	Zone Tested	Altamont		
Address	San Clemente Ca. 92672	Elevation	2106	KB	2074 GL
Co. Rep / Geo.	Al Downing	Cont.	Abrahamson Drilling	Est. Ft. of Pay	7
Location: Sec.	12	Twp.	32 ^s	Rge.	32 ^w
		Co.	Comanche	State	Ks.
No. of Copies	5	Distribution Sheet (Y, N)	N	Turnkey (Y, N)	—
		Evaluation (Y, N)	—		

Interval Tested 4960 - 4993' Initial Str Wt/Lbs. 83,000 Unseated Str Wt/Lbs. 83,000
Anchor Length 33' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 110,000
Top Packer Depth 4955' Tool Weight 2,100
Bottom Packer Depth 4960' Hole Size — 7 7/8" ☒ Rubber Size — 6 3/4" ☒
Total Depth 4993' Wt. Pipe Run Wmk Drill Collar Run 270
Mud Wt. 9.2 LCM 3# Vis. 50 WL 10.4 cc Drill Pipe Size 4 1/2" X H Ft. Run 4675'
Blow Description IF: Strong blow. GTS in 6 mins. (see gas volume report) ISI: No blow
FF: Strong blow. (see gas volume report)
FSI: No blow.

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
<u>110</u>	<u>Yes</u>	<u>110</u>	<u>0</u>
Rec. <u>110</u> Feet Of <u>Drig. Mud.</u>	%gas	%oil	%water
Rec. _____ Feet Of _____	%gas	%oil	%water
Rec. _____ Feet Of _____	%gas	%oil	%water
Rec. _____ Feet Of _____	%gas	%oil	%water
Rec. _____ Feet Of _____	%gas	%oil	%water

BHT 116 °F Gravity N/A °API D @ — °F Corrected Gravity N/A °API
RW N.C. @ — °F Chlorides 6,000 ppm Recovery Chlorides 6,000 ppm System

	AK-1	Alpine			
(A) Initial Hydrostatic Mud	<u>2536</u>	<u>2518</u>	PSI	Recorder No. <u>2342</u>	T-On Location <u>1420</u>
(B) First Initial Flow Pressure	<u>89</u>	<u>90</u>	PSI	(depth) <u>4966'</u>	T-Started <u>1511</u>
(C) First Final Flow Pressure	<u>85</u>	<u>79</u>	PSI	Recorder No. <u>10248</u>	T-Open <u>1718</u>
(D) Initial Shut-In Pressure	<u>1817</u>	<u>1821</u>	PSI	(depth) <u>4990'</u>	T-Pulled <u>2105</u>
(E) Second Initial Flow Pressure	<u>89</u>	<u>97</u>	PSI	Recorder No. <u>—</u>	T-Out <u>2300</u>
(F) Second Final Flow Pressure	<u>82</u>	<u>75</u>	PSI	(depth) <u>—</u>	T-Off Location <u>2330</u>
(G) Final Shut-in Pressure	<u>1824</u>	<u>1830</u>	PSI	Initial Opening <u>30</u>	Test ☒ <u>100</u>
(Q) Final Hydrostatic Mud	<u>2437</u>	<u>2484</u>	PSI	Initial Shut-in <u>40</u>	Jars ☒ <u>200</u>
				Final Flow <u>45</u>	Safety Joint ☒ <u>50</u>
				Final Shut-in <u>90</u>	Straddle <u>—</u>
				<u>—</u>	Circ. Sub <u>—</u>
				<u>—</u>	Sampler <u>—</u>
					Extra Packer <u>—</u>
					Elec. Rec. ☒ <u>150</u>
					Mileage <u>—</u>
					Other <u>—</u>
					TOTAL PRICE \$ ☒ <u>1100</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

Our Representative

Al Downing
Gary Downing

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: 20003839

Analyzed: 07/13/00

Sample From: Miller 1-12 DST 1
Producer: Pelican Hill O&G

Pressure:
Temperature:

Date Location: 12-18-32

Time:
Sampler:
Source:

County: Comanche
State: Kansas
Formation: Altamont

	Mole %	GPM
Helium	He: 0.217	0.000
Hydrogen	H2: 0.004	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 11.695	0.000
Carbon Dioxide	CO2: 0.026	0.000
Methane	C1: 76.504	0.000
Ethane	C2: 4.668	1.248
Propane	C3: 3.814	1.051
Iso Butane	iC4: 0.576	0.188
Normal Butane	nC4: 1.409	0.444
Iso Pentane	iC5: 0.319	0.117
Normal Pentane	nC5: 0.329	0.119
Hexanes Plus	C6+: 0.439	0.192

TOTAL: 100.000 3.359

Z Fact: 0.9974

SP.GR.: 0.7164

BTU (SAT): 1051.1 @ 14.73 psia

BTU (DRY): 1069.7 @ 14.73 psia

OCTANE RATING: 110.3

COMMENTS:

0.000

TRILOBITE TESTING L.L.C.

OPERATOR : Pelican Hill Oil & Gas
WELL NAME: Miller #1-12
LOCATION : 12-32s-18w Comanche co KS
INTERVAL : 5090.00 To 5195.00 ft

DATE 07-08-000
KB 2106.00 ft
GR 2094.00 ft
TD 5195.00 ft

TICKET NO: 12869
FORMATION: Mississippi
TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10248	10248	2342			PF Fr. 2215 to 2245 hr
SI 45 Range(Psi)	4400.0	4400.0	4995.0	0.0	0.0	IS Fr. 2245 to 2330 hr
SF 45 Clock(hrs)	12 hr	12 hr	batt.			SF Fr. 2330 to 0015 hr
FS 90 Depth(ft)	5192.0	5192.0	5102.0	0.0	0.0	FS Fr. 0015 to 0145 hr

	Field	1	2	3	4	
A. Init Hydro	2614.0	2593.0	2553.0	0.0	0.0	T STARTED 2018 hr
B. First Flow	473.0	472.0	463.0	0.0	0.0	T ON BOTM 2210 hr
Bl. Final Flow	504.0	501.0	454.0	0.0	0.0	T OPEN 2215 hr
C. In Shut-in	1793.0	1790.0	1763.0	0.0	0.0	T PULLED 0150 hr
D. Init Flow	435.0	437.0	412.0	0.0	0.0	T OUT 0440 hr
E. Final Flow	484.0	484.0	442.0	0.0	0.0	
F. Fl Shut-in	1789.0	1790.0	1758.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2569.0	2579.0	2430.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	O	O	I	T		Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 116000.00 lbs
						Initial Str Wt 86000.00 lbs
						Unseated Str Wt 85000.00 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 270.00 ft
						D.P. Length 4802.00 ft

RECOVERY

Tot Fluid 290.00 ft of 270.00 ft in DC and 20.00 ft in DP
0.00 ft of Gas in all fluid free pipe.
290.00 ft of Drilling mud
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of Rw n.c. ohms @ degrees F.
0.00 ft of EST.FT. of PAY-----13
SALINITY 8000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
Strong blow. Gas to surface in 4 minutes. (see gas volume report)
Initial Shut-In:
Weak blow.
Final Flow:
Strong blow. (see gas volume report)
Final Shut-In:
Weak blow.

SAMPLES: Gas sample
SENT TO:Caraway/Liberal

Test Successful: Y

MUD DATA-----

Mud Type	Chemical
Weight	9.00 lb/cf
Vis.	54.00 S/L
W.L.	12.80 in3
F.C.	0.20 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	125.00 F
Hole Condition	good
% Porosity	20.00
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.	Al Downing
Contr.	Abercrombie Drlg
Rig #	4
Unit #	
Pump T.	LCM 5 #/bl

DATE: 07-08-000

KB Elev: 2106.00 ft TICKET #12869 DST #2

GR Elev: 2094.00 ft FORMATION: Mississippi

INTERVAL Fr.: 5090.00 To 5195.00 T.D.: 5195.00 ft TEST TYPE: CONVENTIONAL

***** GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
10	0.75	135	0	2169000.0
20	0.75	165	0	2604000.0
30	0.75	170	0	2677000.0

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
10	0.75	160	0	2532000.0
20	0.75	174	0	2735000.0
30	0.75	175	0	2749000.0
40	0.75	175	0	2749000.0

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Miller #1-12

LOCATION : 12-32s-18w Comanche co KS

TICKET No. 12869 D.S.T. No. 2 DATE 07-08-000

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 14

TOTAL TOOL 41

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands 1 Single Total 91

TOTAL ASSEMBLY 132

D.C. ABOVE TOOLS.Stands3 Single Total 270

D.P. ABOVE TOOLS.Stands51 Single 2 Total 4802

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5204

TOTAL DEPTH 5195

TOTAL DRILL PIPE ABOVE K.B. 9

REMARKS:

Comments:To office! Please note KB & GL elevations on this test, and correct them on DST #1. 2106 KB 2094 GL are correct. THANK

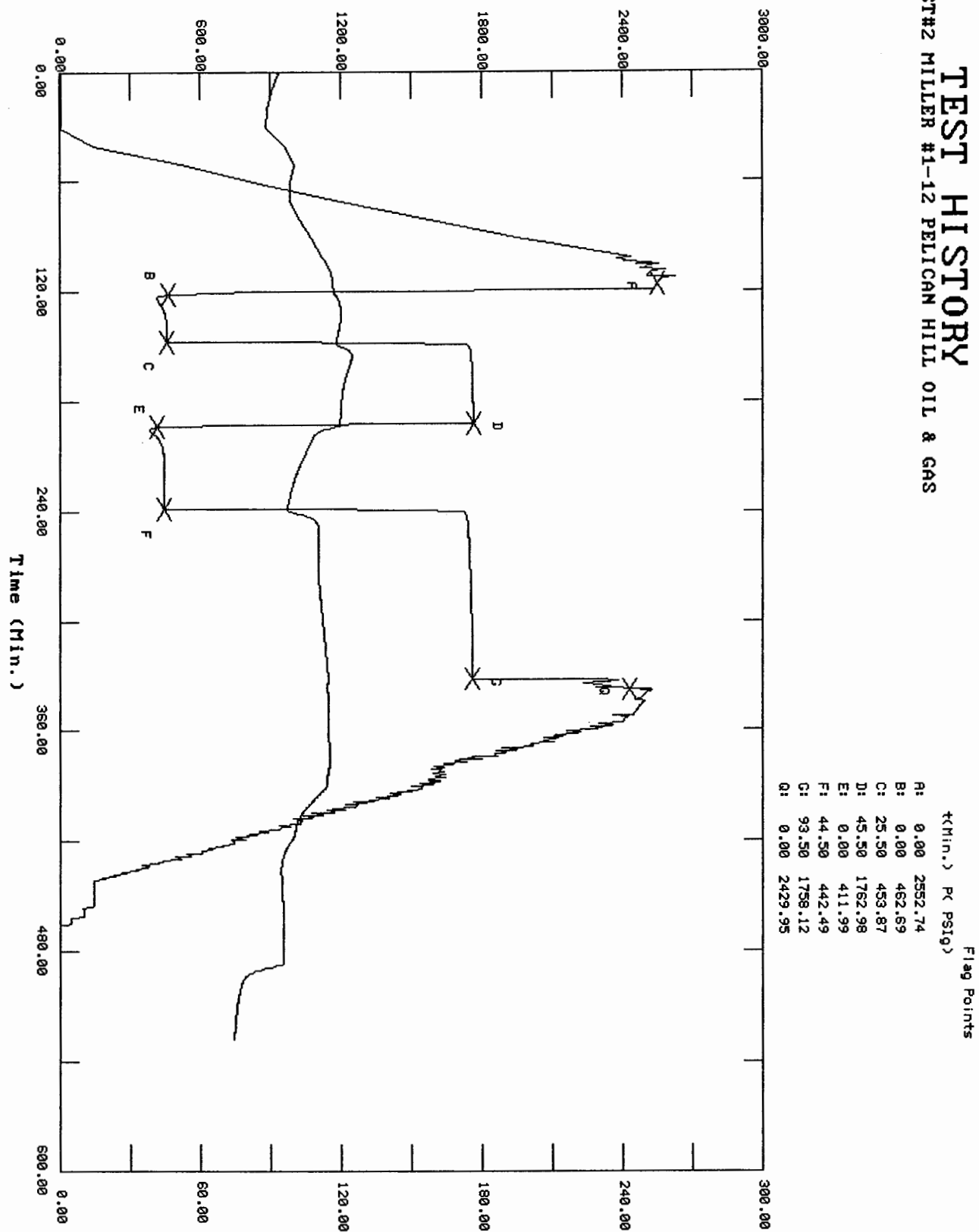
FLUID SAMPLER DATA (not run)

GAS----- cubic ft
OIL----- ML.
MUD----- ML.
WATER----- ML.
OTHER-----
PRESSURE----- PSI
Rw ----- ohms @ deg. F.
CHLORIDES----- ppm.
GRAVITY----- deg.API

P.O. SUB	
C.O. SUB @ top of tool	5063
S.I. TOOL Sterling	5069
HMV Sterling	5074
JARS bowen	5079
SAFETY JOINT bowen	5081
PACKER Top	5085
PACKER Btm.	5090
DEPTH 5090	
1 ft.	5091
ANCHOR	
7'perfs & sub to	5098
Alpine rec. @ 5102	
1 std.pipe & sub to	5190
AK-1 rec. @ 5192	
BULLNOSE 5 ft. perforated	5195
T.D.	

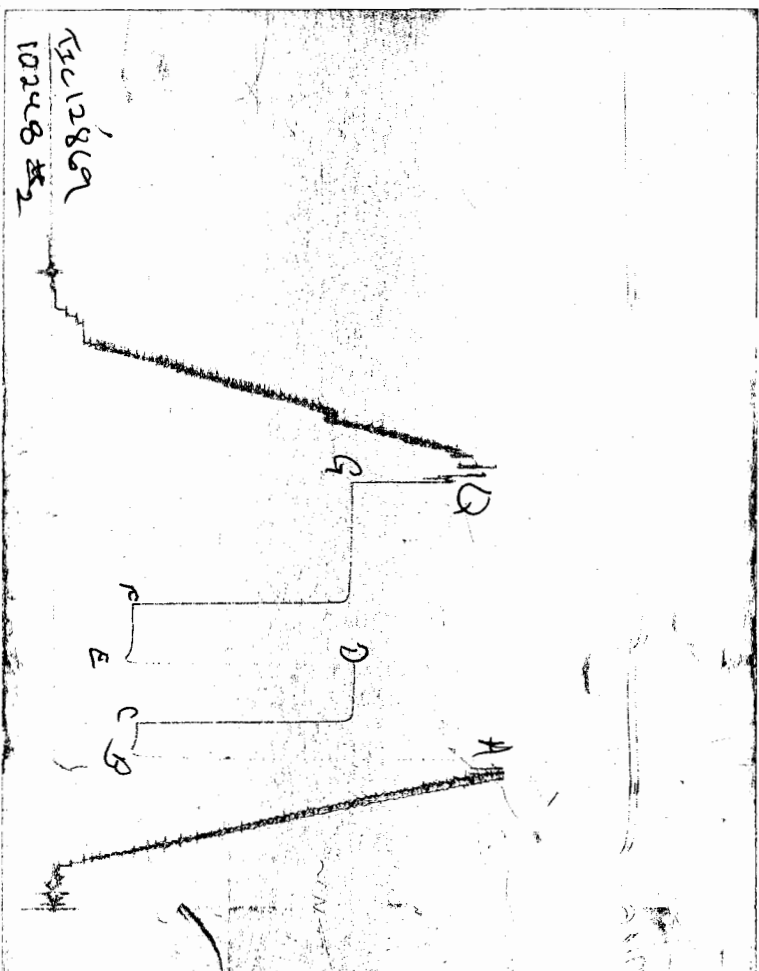
TEST HISTORY

12869 DST#2 MILLER #1-12 PELICAN HILL OIL & GAS



Temperature (DEG F)

CHART PAGE



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



GAS VOLUME REPORT

Miller # 1-72

2
DST NO.

Final Open

[illegible]**Remarks:**

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

N^o 12869

Well Name & No.	Miller # 1-12	Test No.	2	Date	7-8-2000
Company	Pelican Hill Oil & Gas	Zone Tested	Miss.		
Address	San Clemente Ca. 92672	Elevation	2106 KB 2094 GL		
Co. Rep / Geo.	al Downing	Cont.	Abercrombie Dlg. #4	Est. Ft. of Pay	13 Por. %
Location: Sec.	12	Twp.	32S	Rge.	18W Co. Comanche State KS.
No. of Copies	5	Distribution Sheet (Y, N)	N	Turnkey (Y, N)	-
		Evaluation (Y, N)	-		

Interval Tested 5090 - 5195' Initial Str Wt./Lbs. 86,000 Unseated Str Wt./Lbs. 85,000
Anchor Length 105' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 116,000
Top Packer Depth 5085' Tool Weight 2,100 lb
Bottom Packer Depth 5090' Hole Size — 7 7/8" ☒ Rubber Size — 6 3/4" ☒
Total Depth 5195' Wt. Pipe Run None Drill Collar Run 270
Mud Wt. 9.0 LCM 5# Vis. 54 WL 12.8 cc Drill Pipe Size 4 1/2" x H. Ft. Run 4802'
Blow Description IF: Strong blow, GTS in 4 mins. (see gas volume report) ISI: weak blow.
FP: Strong blow. (see gas volume report) FSI: weak blow.

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
<u>290</u>	<u>yes</u>	<u>270</u>	<u>20</u>
Rec. <u>290</u> Feet Of <u>Dry Mud.</u>	%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 <u>125</u> °F Gravity <u>N/A</u> °API D ₄₀ <u>~</u> °F Corrected Gravity <u>N/A</u> °API			
RW <u>N.C.</u> @ <u>~</u> °F Chlorides <u>8,000</u> ppm Recovery Chlorides <u>8,000</u> ppm System			

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>2614</u>	<u>2553</u>	<u>alp.</u>	<u>2342</u>	<u>2000</u>
(B) First Initial Flow Pressure	<u>473</u>	<u>463</u>	PSI (depth)	<u>5102'</u>	T-Started <u>2018</u>
(C) First Final Flow Pressure	<u>504</u>	<u>454</u>	PSI Recorder No.	<u>10248</u>	T-Open <u>2215</u>
(D) Initial Shut-In Pressure	<u>1793</u>	<u>1763</u>	PSI (depth)	<u>5192'</u>	T-Pulled <u>0150</u>
(E) Second Initial Flow Pressure	<u>435</u>	<u>412</u>	PSI Recorder No.	<u>~</u>	T-Out <u>0440</u>
(F) Second Final Flow Pressure	<u>484</u>	<u>442</u>	PSI (depth)	<u>~</u>	T-Off Location <u>0540</u>
(G) Final Shut-in Pressure	<u>1789</u>	<u>1758</u>	PSI Initial Opening	<u>30</u>	Test ☒ <u>800</u>
(Q) Final Hydrostatic Mud	<u>2569</u>	<u>2430</u>	PSI Initial Shut-in	<u>45</u>	Jars ☒ <u>200</u>
			Final Flow	<u>45</u>	Safety Joint ☒ <u>50</u>
			Final Shut-in	<u>90</u>	Straddle _____
				<u>5</u>	Circ. Sub _____
					Sampler _____
					Extra Packer _____
					Elec. Rec. ☒ <u>150</u>
					Mileage _____
					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 _____

Our Representative Gary Fustang

TOTAL PRICE \$ ☒ 1200.00

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: 20003840

Analyzed: 07/13/00

Sample From: Miller 1-12 DST 2
Producer: Pelican Hill O&G

Pressure:
Temperature:

Date: Location: 12-18-32

Time:
Sampler:
Source:

County: Comanche
State: Kansas
Formation: Miss

	Mole %	GPM
Helium	He: 0.141	0.000
Hydrogen	H2: 0.010	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 2.473	0.000
Carbon Dioxide	CO2: 0.125	0.000
Methane	C1: 92.638	0.000
Ethane	C2: 3.023	0.809
Propane	C3: 0.837	0.231
Iso Butane	iC4: 0.151	0.049
Normal Butane	nC4: 0.290	0.091
Iso Pentane	iC5: 0.089	0.033
Normal Pentane	nC5: 0.052	0.019
Hexanes Plus	C6+: 0.171	0.075

TOTAL: 100.000 1.306

Z Fact: 0.9978

SP.GR.: 0.6027

BTU (SAT): 1025.5 @ 14.73 psia

BTU (DRY): 1043.6 @ 14.73 psia

OCTANE RATING: 124.9

COMMENTS:

0.000