

DRILL STEM TEST REPORT

Prepared For: **I A Operatin, Inc.**

900 N. Tyler Rd.
Wichita, KS. 67212

ATTN: Randy Kilian

16-14s-20w-Ellis

Carolina 16-1

Start Date: 2004.12.19 @ 03:19:41

End Date: 2004.12.19 @ 08:52:11

Job Ticket #: 20242 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

I A Operatin, Inc.

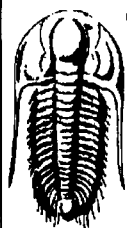
Carolina 16-1

16-14s-20w-Ellis

DST # 1

LKC-"C"

2004.12.19



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

IA Operatin, Inc.
900 N. Tyler Rd.
Wichita, KS. 67212

ATTN: Randy Kilian

Carolina 16-1
16-14s-20w-Ellis
Job Ticket: 20242 **DST#: 1**
Test Start: 2004.12.19 @ 03:19:41

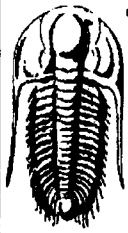
Tool Information

Drill Pipe:	Length: 3353.00 ft	Diameter: 3.80 inches	Volume: 47.03 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 46000.00 lb
			<u>Total Volume: 47.64 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3465.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 ft			
Tool Length:	56.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3445.00	
Shut In Tool	5.00			3450.00	
Hydraulic tool	5.00			3455.00	
Packer	5.00			3460.00	21.00 Bottom Of Top Packer
Packer	5.00			3465.00	
Stubb	1.00			3466.00	
Perforations	1.00			3467.00	
Recorder	0.00	6753	Inside	3467.00	
Perforations	30.00			3497.00	
Recorder	0.00	13252	Outside	3497.00	
Bullhose	3.00			3500.00	35.00 Bottom Packers & Anchor

Total Tool Length: 56.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

IA Operatin, Inc.

Carolina 16-1

900 N. Tyler Rd.
Wichita, KS. 67212

16-14s-20w-Ellis

Job Ticket: 20242

DST#: 1

ATTN: Randy Kilian

Test Start: 2004.12.19 @ 03:19:41

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	Mud w/Oil Specks	0.015

Total Length: 3.00 ft Total Volume: 0.015 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

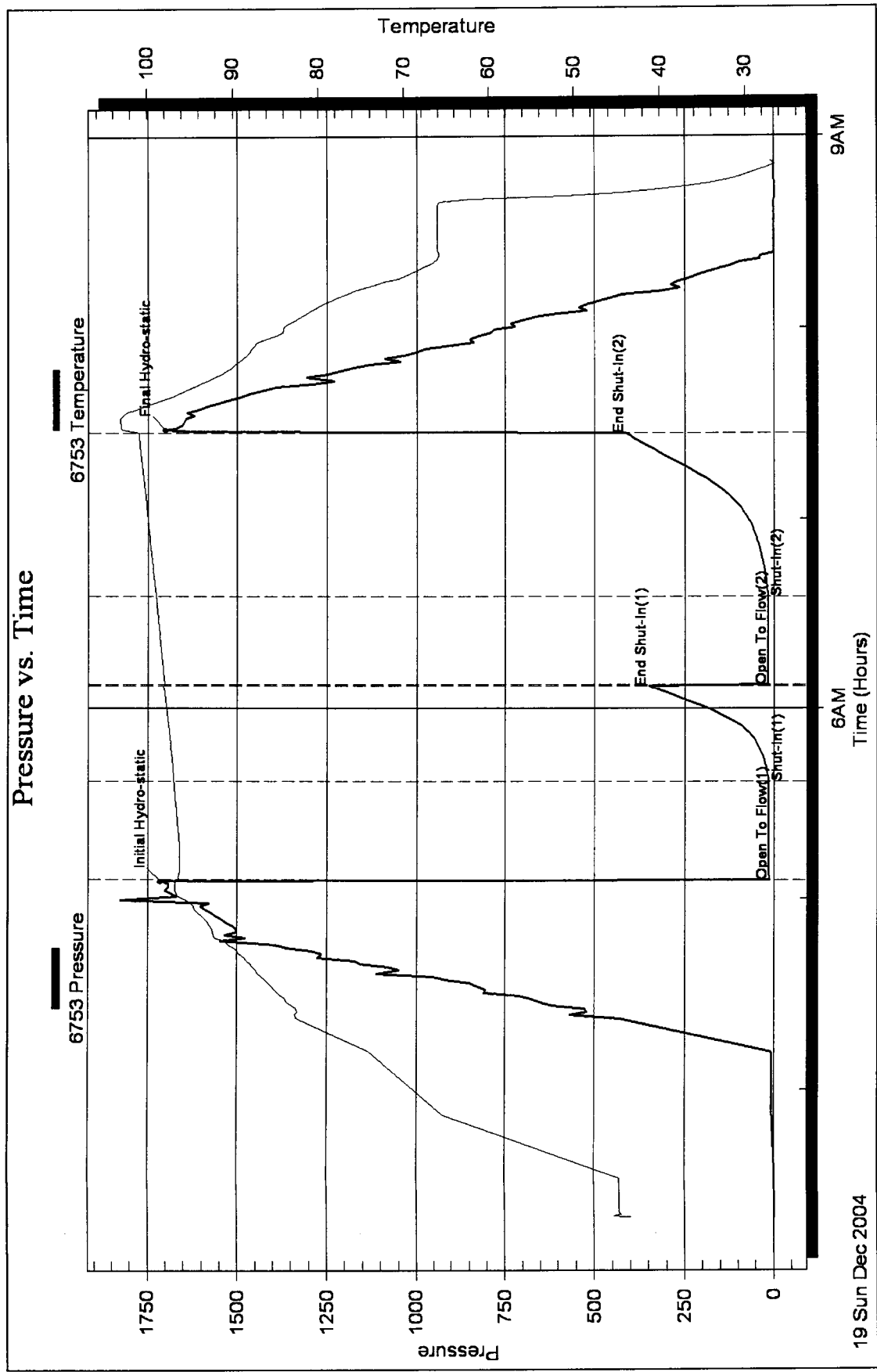
Serial #: 6753

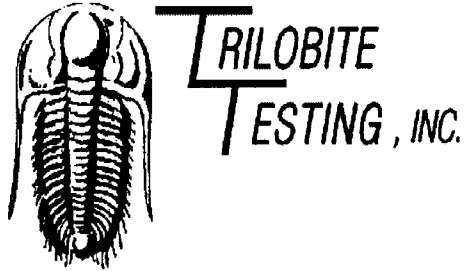
Inside

IA Operatin, Inc.

16-14s-20w -Ellis

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **IA Operatin, Inc.**

900 N. Tyler Rd.
Wichita, KS. 67212

ATTN: Randy Kilian

16-14s-20w-Ellis

Carolina 16-1

Start Date: 2004.12.19 @ 16:22:04

End Date: 2004.12.19 @ 21:38:34

Job Ticket #: 20243 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

IA Operatin, Inc.

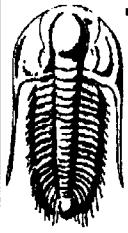
Carolina 16-1

16-14s-20w-Ellis

DST # 2

LKC-"E-F"

2004.12.19



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

IA Operatin, Inc.
 900 N. Tyler Rd.
 Wichita, KS. 67212
 ATTN: Randy Kilian

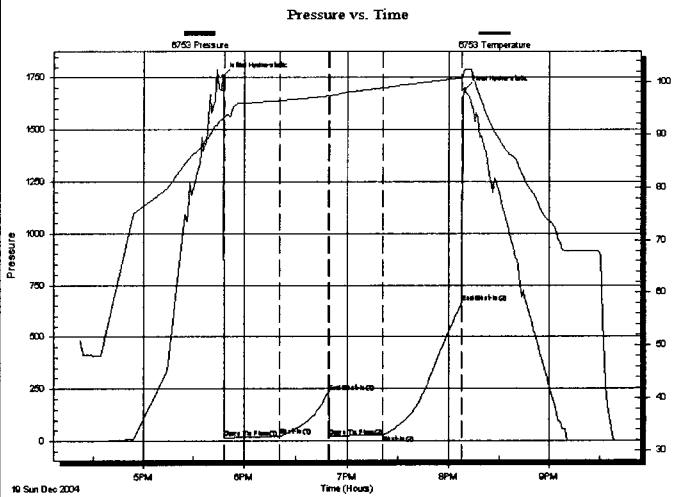
Carolina 16-1
16-14s-20w-Ellis
 Job Ticket: 20243 **DST#: 2**
 Test Start: 2004.12.19 @ 16:22:04

GENERAL INFORMATION:

Formation: **LKC-"E-F"**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: 17:48:04
 Time Test Ended: 21:38:34
 Interval: **3518.00 ft (KB) To 3550.00 ft (KB) (TVD)**
 Total Depth: **3550.00 ft (KB) (TVD)**
 Hole Diameter: **7.80 inches** Hole Condition: **Good**
 Test Type: **Conventional Bottom Hole**
 Tester: **Jason McLemore**
 Unit No: **24**
 Reference Elevations: **2159.00 ft (KB)**
2154.00 ft (CF)
 KB to GR/CF: **5.00 ft**

Serial #: 6753 **Inside**
 Press@RunDepth: **28.47 psig @ 3520.00 ft (KB)** Capacity: **7000.00 psig**
 Start Date: **2004.12.19** End Date: **2004.12.19** Last Calib.: **1899.12.30**
 Start Time: **16:22:09** End Time: **21:38:33** Time On Btm: **2004.12.19 @ 17:47:04**
 Time Off Btm: **2004.12.19 @ 20:09:34**

TEST COMMENT: IFP-Weak Blow ,Built to 1-1/2" Dead After 20 Min.
 ISI-Dead
 FFP-Weak Blow ,Built to 1/2" Dead After 10 Min.
 FSI-Dead



PRESSURE SUMMARY

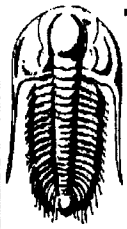
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1756.43	92.76	Initial Hydro-static
1	12.54	93.28	Open To Flow (1)
34	21.87	96.38	Shut-In(1)
62	234.64	97.29	End Shut-In(1)
63	19.60	97.22	Open To Flow (2)
94	28.47	98.78	Shut-In(2)
141	662.52	100.71	End Shut-In(2)
143	1691.32	102.26	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	HOCM-20%G-40%O-40%M	0.05

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

IA Operatin, Inc.

Carolina 16-1

900 N. Tyler Rd.
Wichita, KS. 67212

16-14s-20w-Ellis

Job Ticket: 20243

DST#: 2

ATTN: Randy Kilian

Test Start: 2004.12.19 @ 16:22:04

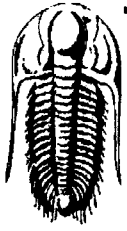
Tool Information

Drill Pipe:	Length: 3383.00 ft	Diameter: 3.80 inches	Volume: 47.45 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 48.06 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3518.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	53.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3498.00	
Shut In Tool	5.00			3503.00	
Hydraulic tool	5.00			3508.00	
Packer	5.00			3513.00	21.00 Bottom Of Top Packer
Packer	5.00			3518.00	
Stubb	1.00			3519.00	
Perforations	1.00			3520.00	
Recorder	0.00	6753	Inside	3520.00	
Perforations	27.00			3547.00	
Recorder	0.00	13252	Outside	3547.00	
Bullnose	3.00			3550.00	32.00 Bottom Packers & Anchor

Total Tool Length: 53.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

IA Operatin, Inc.

Carolina 16-1

900 N. Tyler Rd.
Wichita, KS. 67212

16-14s-20w-Ellis

Job Ticket: 20243

DST#: 2

ATTN: Randy Kilian

Test Start: 2004.12.19 @ 16:22:04

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	HOCM-20%G-40%O-40%M	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

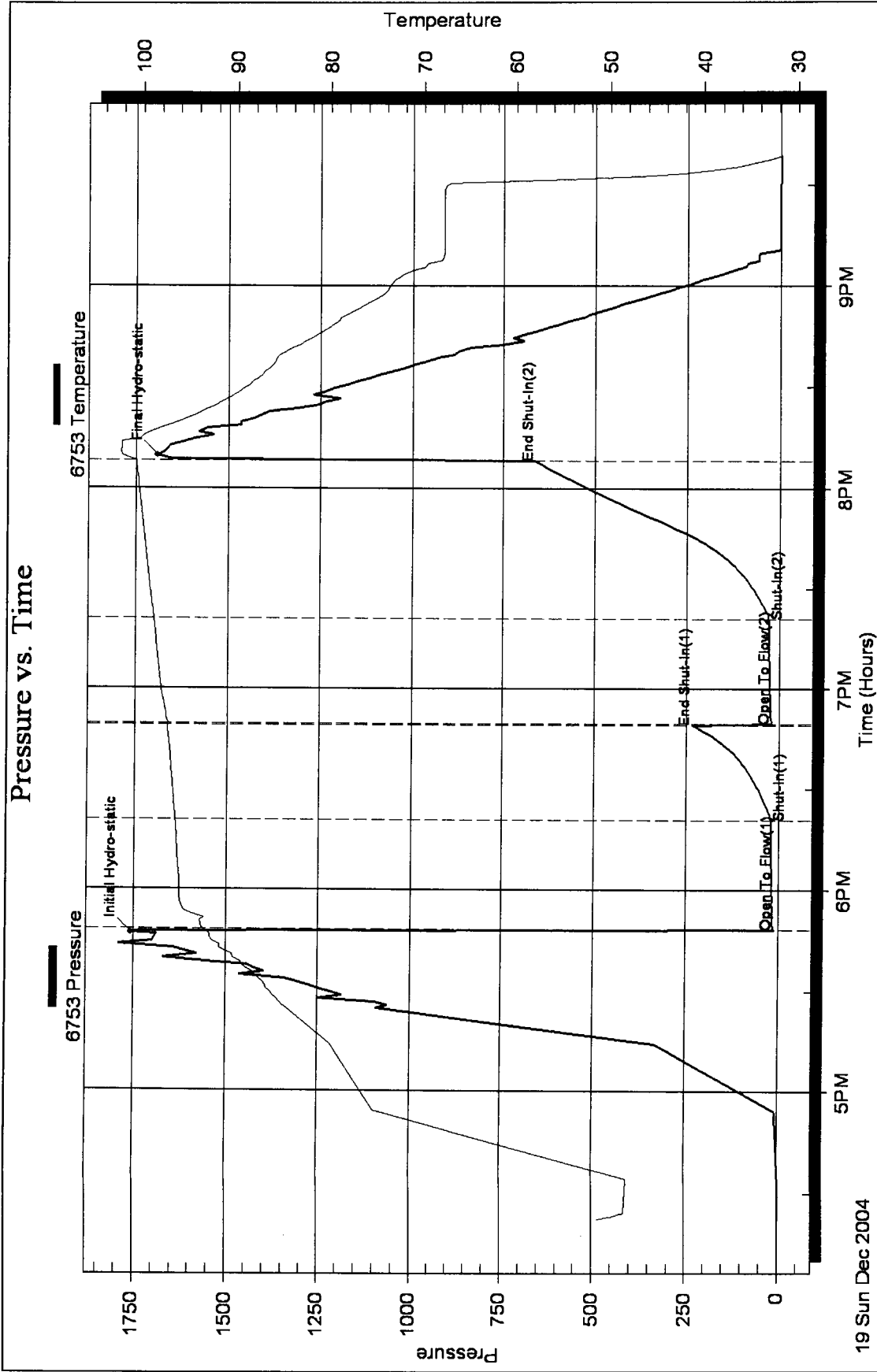
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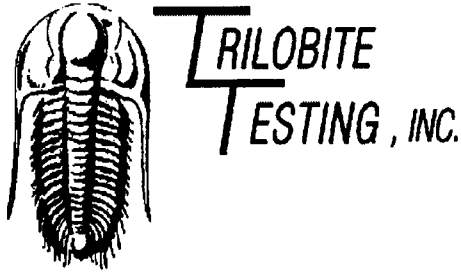
Inside

IA Operatin, Inc.

16-14s-20w -Ellis

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **IA Operatin, Inc.**

900 N. Tyler Rd.
Wichita, KS. 67212

ATTN: Randy Kilian

16-14s-20w-Ellis

Carolina 16-1

Start Date: 2004.12.20 @ 18:42:36

End Date: 2004.12.21 @ 02:01:36

Job Ticket #: 20244 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

IA Operatin, Inc.

Carolina 16-1

16-14s-20w-Ellis

DST # 3

Reagan Sand

2004.12.20



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

I A Operatin, Inc.

Carolina 16-1

900 N. Tyler Rd.
Wichita, KS. 67212

16-14s-20w-Ellis

Job Ticket: 20244

DST#: 3

ATTN: Randy Kilian

Test Start: 2004.12.20 @ 18:42:36

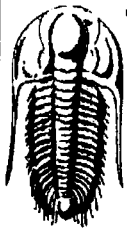
Tool Information

Drill Pipe:	Length: 3659.00 ft	Diameter: 3.80 inches	Volume: 51.33 bbl	Tool Weight: 1900.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 51.94 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3789.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	49.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3769.00	
Shut In Tool	5.00			3774.00	
Hydraulic tool	5.00			3779.00	
Packer	5.00			3784.00	21.00 Bottom Of Top Packer
Packer	5.00			3789.00	
Stubb	1.00			3790.00	
Perforations	1.00			3791.00	
Recorder	0.00	6753	Inside	3791.00	
Perforations	23.00			3814.00	
Recorder	0.00	13252	Outside	3814.00	
Bullnose	3.00			3817.00	28.00 Bottom Packers & Anchor

Total Tool Length: 49.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

I A Operatin, Inc.

Carolina 16-1

900 N. Tyler Rd.
Wchita, KS. 67212

16-14s-20w-Ellis

Job Ticket: 20244

DST#: 3

ATTN: Randy Kilian

Test Start: 2004.12.20 @ 18:42:36

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

31 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Muddy Oil-10%G-70%O-20%M	0.049
1675.00	Clean Oil-10%G-90%O	22.457

Total Length: 1685.00 ft Total Volume: 22.506 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6753

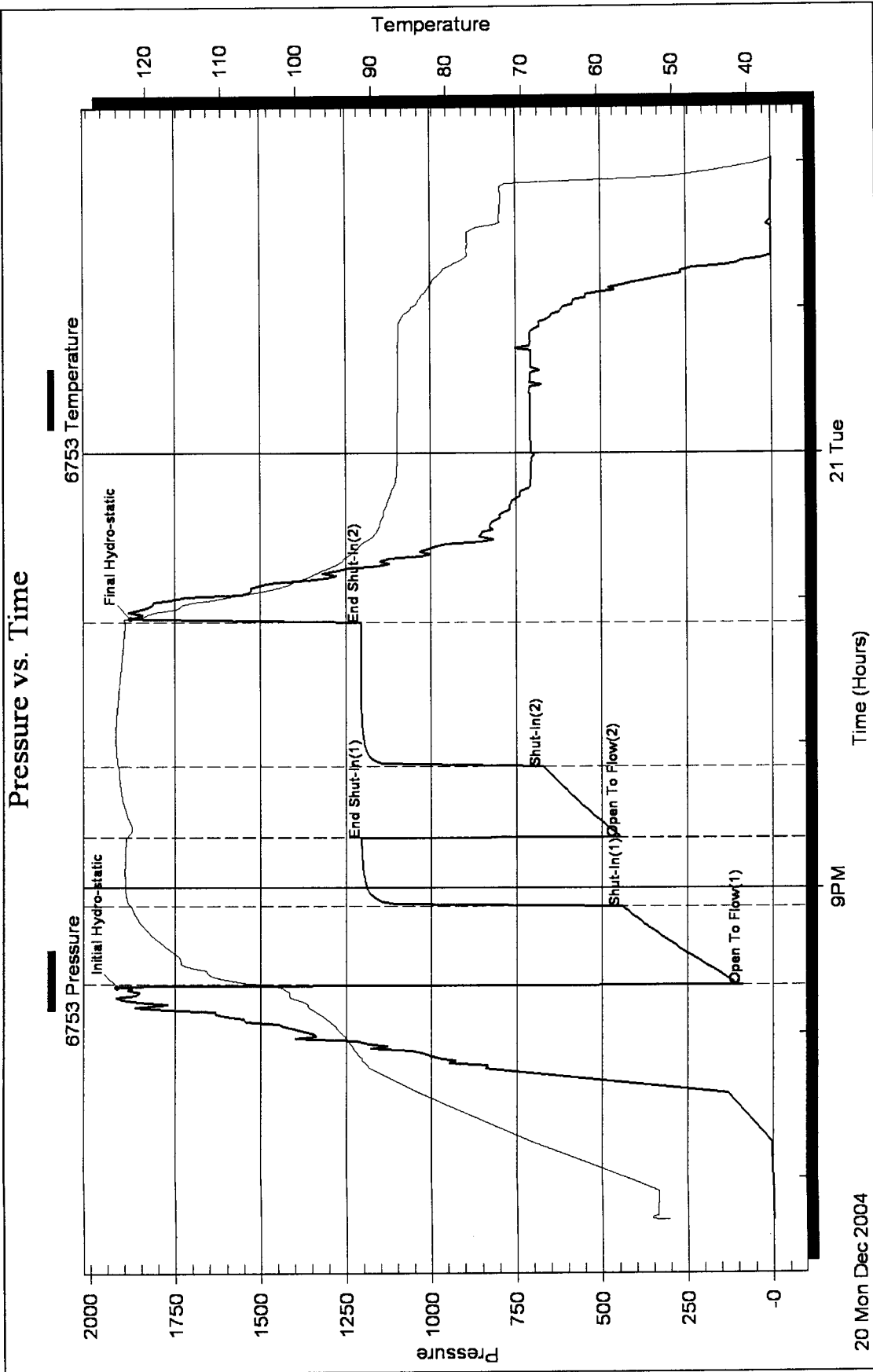
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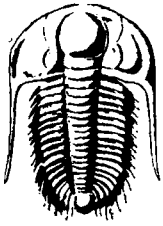
IA Operatin, Inc.

16-14s-20w-Ellis

DST Test Number: 3

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

*IAW
7057*

No 20242

05/03

Test Ticket

Well Name & No. Carolina 16-1 Test No. 1 Date 12-19-04
 Company IA Operating Inc Zone Tested LKC - "C"
 Address 900 N Tyler Road, Wichita, Ks 67212 Elevation 2159 KB 2154 GL
 Co. Rep / Geo. Randy Kelsan Cont. Murfin #16 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 16 Twp. 14 Rge. 20w Co. Ellis State Ks
 No. of Copies Reg Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3465 - 3500 Initial Str Wt./Lbs. 42,000 Unseated Str Wt./Lbs. 42,000
 Anchor Length 35' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 46,000
 Top Packer Depth 3460 Tool Weight 2,000
 Bottom Packer Depth 3465 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 3500 Wt. Pipe Run 0 Drill Collar Run 124
 Mud Wt. 8.18 LCM Tr-44[#] Vis. 54 WL 8.18 Drill Pipe Size 4 1/2 KH Ft. Run 3353
 Blow Description IFF - Weak Blow, Built to 48", Died in 20 min.

ISI - Dead
FFP - Dead
FSI - Dead

Recovery - Total Feet 3 GIP _____ Ft. in DC _____ Ft. in DP _____
 Rec. 3 Feet of Mud With Oil Specks %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 101° °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 4,000 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	1717	PSI	<u>6753</u>	<input checked="" type="checkbox"/>
(B) First Initial Flow Pressure	12	PSI	<u>3467</u>	<input checked="" type="checkbox"/>
(C) First Final Flow Pressure	17	PSI	<u>13252</u>	Jars _____
(D) Initial Shut-In Pressure	351	PSI	<u>3497</u>	Safety Jt. _____
(E) Second Initial Flow Pressure	15	PSI	Recorder No. _____	Circ Sub _____
(F) Second Final Flow Pressure	16	PSI	(depth) _____	Sampler _____
(G) Final Shut-In Pressure	417	PSI	Initial Opening <u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud	1699	PSI	Initial Shut-In <u>30</u>	Ext. Packer _____
			Final Flow <u>30</u>	Shale Packer _____
			Final Shut-In <u>45</u>	Mileage <u>16 1 way</u>
			T-On Location <u>00:00</u>	Sub Total: <u>932</u>
			T-Started <u>3:19</u>	Std. By _____
			T-Open <u>5:05</u>	Other _____
			T-Pulled <u>7:20</u>	Total: _____
			T-Off <u>8:50</u>	

TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED 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.

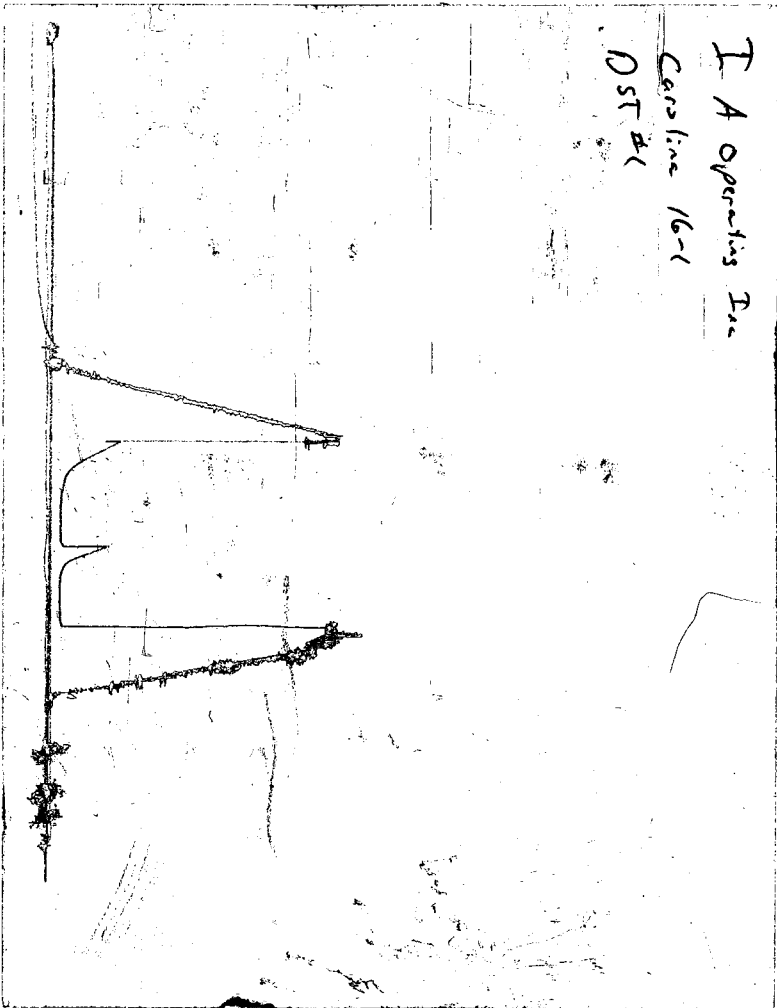
Approved By _____

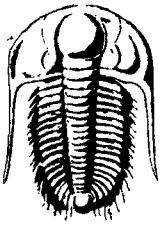
Our Representative Jason Mc Leman

Thank you

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 20243

05/03

Test Ticket

Well Name & No. <u>Carolina 16-1</u>	Test No. <u>2</u>	Date <u>12-19-07</u>
Company <u>I A Operating, Inc</u>	Zone Tested <u>LKC "E-F"</u>	
Address <u>900 N. Tyler Road, Wichita, Ks, 67212</u>	Elevation <u>2159</u> KB <u>2154</u>	GL
Co. Rep / Geo. <u>Randy Kslian</u>	Cont. <u>Murfin #16</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>16</u> Twp. <u>14s</u> Rge. <u>20w</u> Co. <u>Ellis</u> State <u>Ks</u>		
No. of Copies <u>Reg</u> Distribution Sheet (Y, N) _____	Turnkey (Y, N) _____	Evaluation (Y, N) _____

Interval Tested <u>3518-3550</u>	Initial Str Wt./Lbs. <u>42,000</u>	Unseated Str Wt/Lbs. <u>42,000</u>
Anchor Length <u>32'</u>	Wt. Set Lbs. <u>25,000</u>	Wt. Pulled Loose/Lbs. <u>45,000</u>
Top Packer Depth <u>3513</u>	Tool Weight <u>2,000</u>	
Bottom Packer Depth <u>3518</u>	Hole Size <u>7 7/8"</u> <input checked="" type="checkbox"/>	Rubber Size <u>6 3/4"</u> <input checked="" type="checkbox"/>
Total Depth <u>3550</u>	Wt. Pipe Run <u>0</u>	Drill Collar Run <u>124</u>
Mud Wt. <u>9.3</u> LCM _____ Vis. <u>52</u> WL <u>8.8</u>	Drill Pipe Size <u>4 1/2 X 14</u>	Ft. Run <u>3383</u>
Blow Description <u>IFP - Weak Blow, Built to -1 1/2", Died after 20 min</u>		
<u>TSE - Dead</u>		
<u>FFP - Weak Blow, Built to 1/2", Died in 10 min</u>		
<u>FSE - Dead</u>		

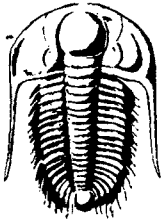
Recovery - Total Feet <u>10</u>	GIP <u>140</u>	Ft. in DC _____	Ft. in DP _____
Rec. <u>10</u> Feet of <u>HUCM</u>	<u>20</u> %gas <u>40</u> %oil	%water _____	%mud <u>40</u>
Rec. _____ Feet of _____	%gas _____ %oil _____	%water _____	%mud _____
Rec. _____ Feet of _____	%gas _____ %oil _____	%water _____	%mud _____
Rec. _____ Feet of _____	%gas _____ %oil _____	%water _____	%mud _____
BHT <u>101°</u> °F Gravity _____	°API D @ _____	°F Corrected Gravity _____	°API _____
RW _____ @ _____ °F	Chlorides _____ ppm Recovery _____	Chlorides <u>5,000</u> ppm System	

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>1756</u>	PSI	<u>6753</u>	<input checked="" type="checkbox"/> <u>900</u>
(B) First Initial Flow Pressure	<u>13</u>	PSI	(depth) <u>3520</u>	Elec. Rec. <input checked="" type="checkbox"/>
(C) First Final Flow Pressure	<u>22</u>	PSI	Recorder No. <u>13252</u>	Jars _____
(D) Initial Shut-In Pressure	<u>235</u>	PSI	(depth) <u>3547</u>	Safety Jt. _____
(E) Second Initial Flow Pressure	<u>20</u>	PSI	Recorder No. _____	Circ Sub _____
(F) Second Final Flow Pressure	<u>28</u>	PSI	(depth) _____	Sampler _____
(G) Final Shut-In Pressure	<u>663</u>	PSI	Initial Opening <u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud	<u>1691</u>	PSI	Initial Shut-In <u>30</u>	Ext. Packer _____
			Final Flow <u>30 45</u>	Shale Packer _____
			Final Shut-In <u>45 60</u>	Mileage <u>32</u>
			T-On Location <u>15:25</u>	Sub Total: <u>932</u>
			T-Started <u>16:22</u>	Std. By _____
			T-Open <u>17:48</u>	Other _____
			T-Pulled <u>20:05</u>	Total: _____
			T-Out <u>21:35</u>	

TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED 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 Jason Mc Lemmon Thank you



TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 20244

05/03

Test Ticket

Well Name & No. Carolina 16-1 Test No. 3 Date 12-20-04
 Company I A Operating, Inc. Zone Tested Rengan Sand
 Address 900 N. Tyler Road, Wichita, Ks. 67212 Elevation 2159 KB 2154 GL
 Co. Rep / Geo. Randy Kilian Cont. Murkin #16 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 16 Twp. 14s Rge. 20w Co. Ellis State Ks
 No. of Copies Reg Disbtribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3789-3817 Initial Str Wt./Lbs. 4200 Unseated Str Wt./Lbs. 48000
 Anchor Length 28 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 52,000
 Top Packer Depth 3784 Tool Weight 1900
 Bottom Packer Depth 3789 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 3817 Wt. Pipe Run 0 Drill Collar Run 124
 Mud Wt. 9.2 LCM 1/4* Vis. 54 WL 8.8 Drill Pipe Size 4 1/2 XH Ft. Run 3659
 Blow Description IFP - Strong Blow, BOB in 1 1/2 min.
IST - Blowback Built to 4"
FFP - Strong Blow, BOB in 2 min.
FSZ - Weak Surface Blowback for 15 min.

Recovery - Total Feet	GIP	Ft. in DC	Ft. in DP
Rec. <u>1675</u>	Feet of <u>Clean Oil</u>	<u>10</u> %gas <u>90%</u> oil	%water %mud
Rec. <u>10</u>	Feet of <u>Muddy Oil</u>	<u>10</u> %gas <u>70%</u> oil	%water <u>20</u> %mud
Rec. _____	Feet of _____	%gas %oil	%water %mud
Rec. _____	Feet of _____	%gas %oil	%water %mud
Rec. _____	Feet of _____	%gas %oil	%water %mud

BHT 123 °F Gravity 29 °API D @ 40 °F Corrected Gravity 31 °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 5,000 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>1919</u> PSI	<u>1919</u> PSI	<u>6753</u>	✓ <u>900</u>
(B) First Initial Flow Pressure	<u>89</u> PSI	<u>89</u> PSI	<u>3791</u>	Elec. Rec. ✓
(C) First Final Flow Pressure	<u>441</u> PSI	<u>441</u> PSI	<u>13252</u>	Jars _____
(D) Initial Shut-In Pressure	<u>1203</u> PSI	<u>1203</u> PSI	<u>3814</u>	Safety Jt. _____
(E) Second Initial Flow Pressure	<u>448</u> PSI	<u>448</u> PSI	Recorder No. _____	<u>Circ Sub</u> ✓ <u>1 pin</u> ³⁵
(F) Second Final Flow Pressure	<u>672</u> PSI	<u>672</u> PSI	Recorder No. _____	Sampler _____
(G) Final Shut-In Pressure	<u>1205</u> PSI	<u>1205</u> PSI	Initial Opening <u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud	<u>1879</u> PSI	<u>1879</u> PSI	Initial Shut-In <u>30</u>	Ext. Packer _____

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Final Flow 30
 Final Shut-In 60
 T-On Location 17:40
 T-Started 18:42
 T-Open 20:17
 T-Pulled 22:47
 T-Out 2:00

Mileage 32
 Sub Total: 967
 Std. By _____
 Other _____
 Total: _____

Approved By _____
 Our Representative Jason Mc Lemmon *for you*