



DRILL STEM TEST REPORT

Prepared For: **Imperial American Oil Corp.**

303 N Carroll #214
Denton TX 76201

ATTN: Randy Killian

21-11S-20W Ellis KS.

Diane #21-1

Start Date: 2001.09.26 @ 07:35:10

End Date: 2001.09.26 @ 14:50:40

Job Ticket #: 14876 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Imperial American Oil Corp.

303 N Carroll #214
Denton TX. 76201

ATTN: Randy Killian

Diane #21-1

21-11S-20W Ellis KS.

Job Ticket: 14876

DST#: 1

Test Start: 2001.09.26 @ 07:35:10

GENERAL INFORMATION:

Formation: **L/KC "A-D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:27:10

Time Test Ended: 14:50:40

Test Type: Conventional Bottom Hole

Tester: Rod Steinbrink

Unit No: 22

Interval: **3456.00 ft (KB) To 3507.00 ft (KB) (TVD)**

Total Depth: 3507.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2144.00 ft (KB)

2139.00 ft (CF)

KB to GRVCF: 5.00 ft

Serial #: 3030

Inside

Press@RunDepth: 166.37 psig @ 3457.00 ft (KB)

Start Date: 2001.09.26

End Date:

2001.09.26

Start Time: 07:35:15

End Time:

14:50:39

Capacity: 7000.00 psig

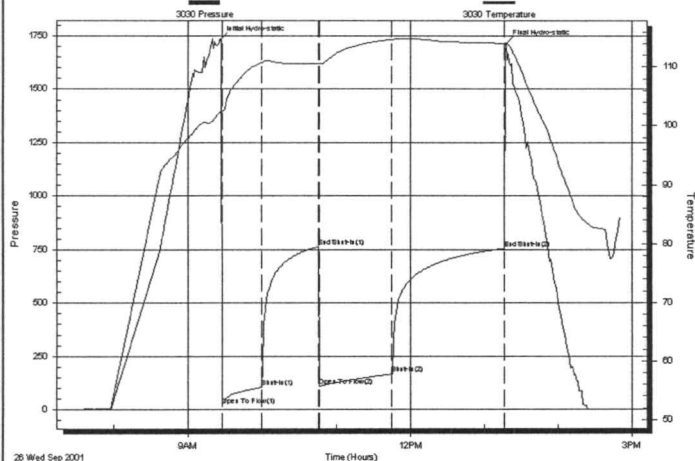
Last Calib.: 1899.12.30

Time On Btm: 2001.09.26 @ 09:26:10

Time Off Btm: 2001.09.26 @ 13:17:40

TEST COMMENT: IF; Surface blow built to btm in 30 mins
IS! No return blow
FF; Surface blow built to btm in 45 mins
FS! No return blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1730.19	102.37	Initial Hydro-static
1	20.61	102.47	Open To Flow (1)
34	104.68	110.72	Shut-In (1)
80	764.30	110.49	End Shut-In (1)
81	107.41	110.49	Open To Flow (2)
139	166.37	114.68	Shut-In (2)
231	755.25	114.02	End Shut-In (2)
232	1713.23	114.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
315.00	Muddy Water w/show of oil @ top	3.33

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Imperial American Oil Corp.

Diane #21-1

303 N Carroll #214
Denton TX. 76201

21-11S-20W Ellis KS.

Job Ticket: 14876

DST#: 1

ATTN: Randy Killian

Test Start: 2001.09.26 @ 07:35:10

Tool Information

Drill Pipe:	Length: 3351.00 ft	Diameter: 3.80 inches	Volume: 47.01 bbl	Tool Weight: 1800.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 50000.00 lb
			Total Volume: 47.60 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	35.00 ft			String Weight: Initial 30000.00 lb
Depth to Top Packer:	3456.00 ft			Final 34000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	51.00 ft			
Tool Length:	71.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			3441.00	
HMV	5.00			3446.00	
Packer	5.00			3451.00	20.00 Bottom Of Top Packer
Packer	5.00			3456.00	
Stubb	1.00			3457.00	
Recorder	0.00	3030	Inside	3457.00	
Perforations	12.00			3469.00	
C.O. Sub	1.00			3470.00	
Anchor	31.00			3501.00	
C.O. Sub	1.00			3502.00	
Recorder	0.00	13371	Outside	3502.00	
Bullnose	5.00			3507.00	51.00 Bottom Packers & Anchor
Total Tool Length:		71.00			



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DRILL STEM TEST REPORT

FLUID SUMMARY

Imperial American Oil Corp.

Diane #21-1

303 N Carroll #214
Denton TX. 76201

21-11S-20W Ellis KS.

Job Ticket: 14876

DST#: 1

ATTN: Randy Killian

Test Start: 2001.09.26 @ 07:35:10

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:

26000 ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.35 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
315.00	Muddy Water w/show of oil @ top	3.325

Total Length: 315.00 ft

Total Volume: 3.325 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .24 @ 80 deg =

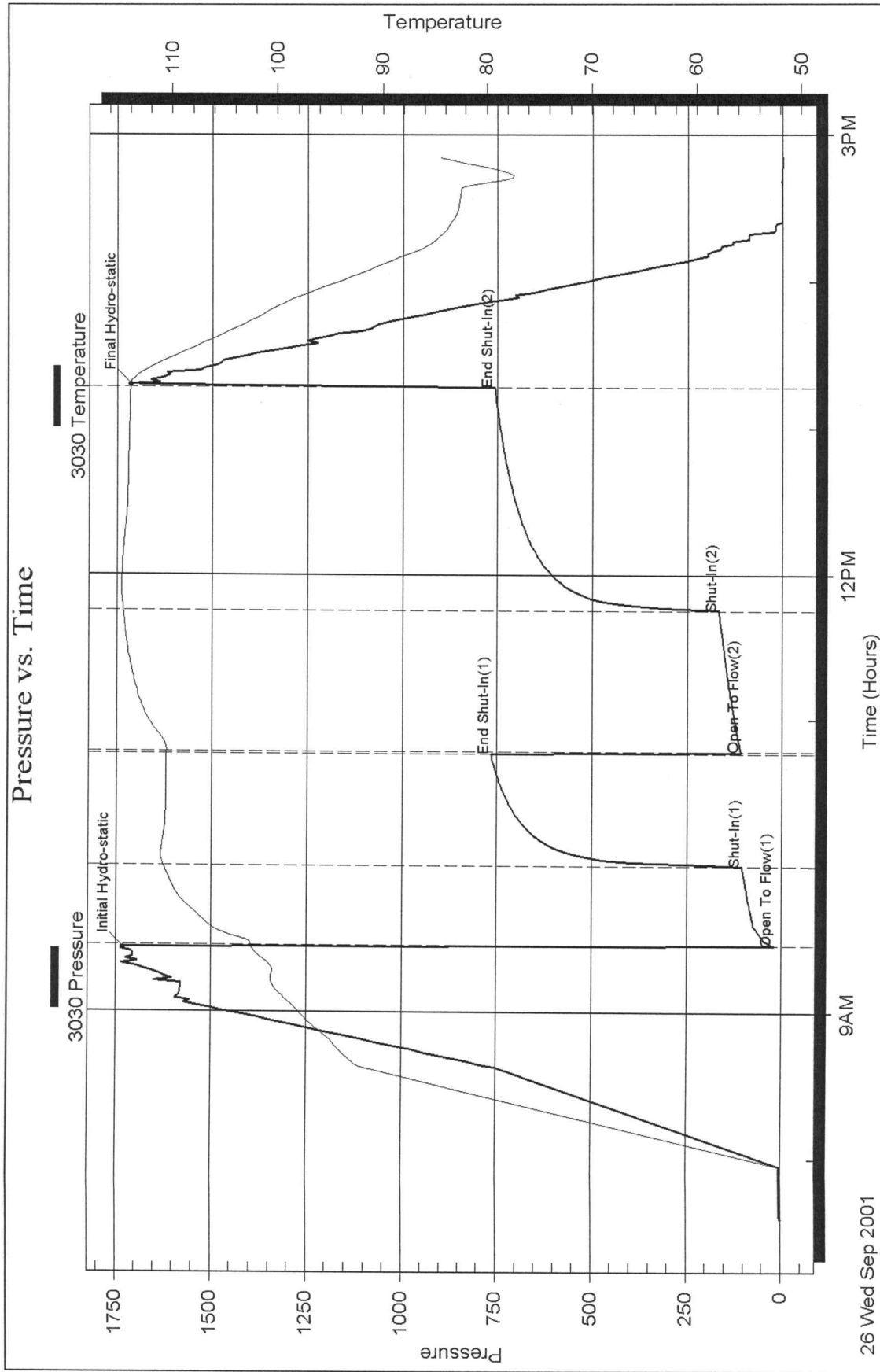
Serial #: 3030

Inside

Imperial American Oil Corp.

21-11S-20W Ellis KS.

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Imperial American Oil Corp.**

303 N Carroll #214
Denton TX 76201

ATTN: Randy Killian

21-11S-20W Ellis KS.

Diane #21-1

Start Date: 2001.09.26 @ 22:30:33

End Date: 2001.09.27 @ 05:18:48

Job Ticket #: 14877 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Imperial American Oil Corp.

303 N Carroll #214
Denton TX. 76201

ATTN: Randy Killian

Diane #21-1

21-11S-20W Ellis KS.

Job Ticket: 14877

DST#: 2

Test Start: 2001.09.26 @ 22:30:33

GENERAL INFORMATION:

Formation: **L/KC "F-G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:45:48

Time Test Ended: 05:18:48

Test Type: Conventional Bottom Hole

Tester: Rod Steinbrink

Unit No: 22

Interval: **3526.00 ft (KB) To 3545.00 ft (KB) (TVD)**

Total Depth: 3507.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2144.00 ft (KB)

2139.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 3030

Inside

Press@RunDepth: 168.87 psig @ 3527.00 ft (KB)

Start Date: 2001.09.26

End Date:

2001.09.27

Start Time: 22:30:38

End Time:

05:18:47

Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2001.09.26 @ 23:44:33

Time Off Btm: 2001.09.27 @ 03:31:18

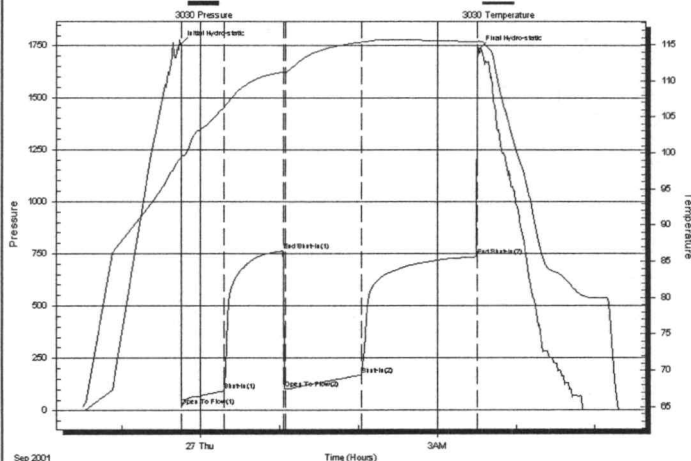
TEST COMMENT: IF; Surface blow built to btm in 11 mins.

IS; No return blow

FF; Surface blow built to btm in 17 mins

FS; No return blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1755.73	99.25	Initial Hydro-static
2	21.81	99.48	Open To Flow (1)
33	93.07	106.27	Shut-In (1)
79	762.64	111.19	End Shut-In (1)
80	101.86	111.18	Open To Flow (2)
138	168.87	115.35	Shut-In (2)
226	734.48	115.43	End Shut-In (2)
227	1734.16	115.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Water	0.15
90.00	OCM 15%oil 85%mud	0.44
420.00	CGO 20%gas 80%oil	5.89

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Imperial American Oil Corp.

Diane #21-1

303 N Carroll #214
Denton TX. 76201

21-11S-20W Ellis KS.

Job Ticket: 14877

DST#: 2

ATTN: Randy Killian

Test Start: 2001.09.26 @ 22:30:33

Tool Information

Drill Pipe:	Length: 3409.00 ft	Diameter: 3.80 inches	Volume: 47.82 bbl	Tool Weight: 1800.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 40000.00 lb
		Total Volume: 48.41 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 30000.00 lb
Depth to Top Packer:	3526.00 ft			Final 34000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 ft			
Tool Length:	39.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			3511.00	
HMV	5.00			3516.00	
Packer	5.00			3521.00	20.00 Bottom Of Top Packer
Packer	5.00			3526.00	
Stubb	1.00			3527.00	
Recorder	0.00	3030	Inside	3527.00	
Perforations	13.00			3540.00	
Recorder	0.00	13371	Outside	3540.00	
Bullnose	5.00			3545.00	19.00 Bottom Packers & Anchor
Total Tool Length:	39.00				



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DRILL STEM TEST REPORT

FLUID SUMMARY

Imperial American Oil Corp.

Diane #21-1

303 N Carroll #214
Denton TX. 76201

21-11S-20W Ellis KS.

Job Ticket: 14877

DST#: 2

ATTN: Randy Killian

Test Start: 2001.09.26 @ 22:30:33

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:

24000 ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.35 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Water	0.148
90.00	OCM 15%oil 85%mud	0.443
420.00	CGO 20%gas 80%oil	5.891

Total Length: 540.00 ft Total Volume: 6.482 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .24 @ 80 deg =

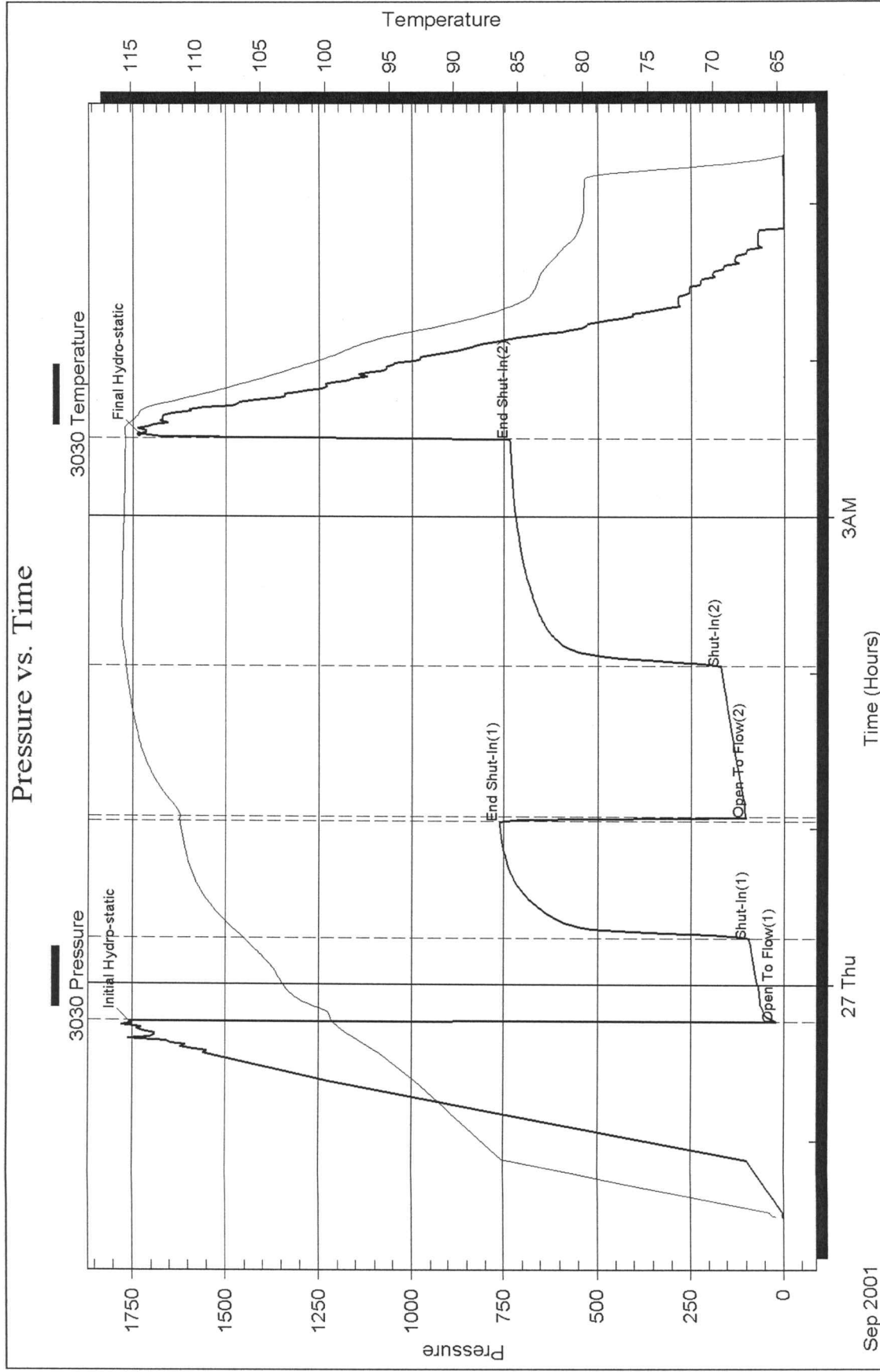
Serial #: 3030

Inside

Imperial American Oil Corp.

21-11S-20W Ellis KS.

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Imperial American Oil Corp.**

303 N Carroll #214
Denton TX 76201

ATTN: Randy Killian

21-11S-20W Ellis KS.

Diane #21-1

Start Date: 2001.09.27 @ 15:45:01

End Date: 2001.09.27 @ 21:28:16

Job Ticket #: 18788 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



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DRILL STEM TEST REPORT

Imperial American Oil Corp.

303 N Carroll #214
Denton TX. 76201

ATTN: Randy Killian

Diane #21-1

21-11S-20W Ellis KS.

Job Ticket: 18788

DST#: 3

Test Start: 2001.09.27 @ 15:45:01

GENERAL INFORMATION:

Formation: **L/KC "J-K-L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:25:31

Time Test Ended: 21:28:16

Test Type: Conventional Bottom Hole

Tester: Rod Steinbrink

Unit No: 22

Interval: **3616.00 ft (KB) To 3675.00 ft (KB) (TVD)**

Total Depth: 3507.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2144.00 ft (KB)

2139.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 3030

Inside

Press@RunDepth: 49.63 psig @ 3617.00 ft (KB)

Start Date: 2001.09.27

End Date:

2001.09.27

Start Time: 15:45:06

End Time:

21:28:15

Capacity: 7000.00 psig

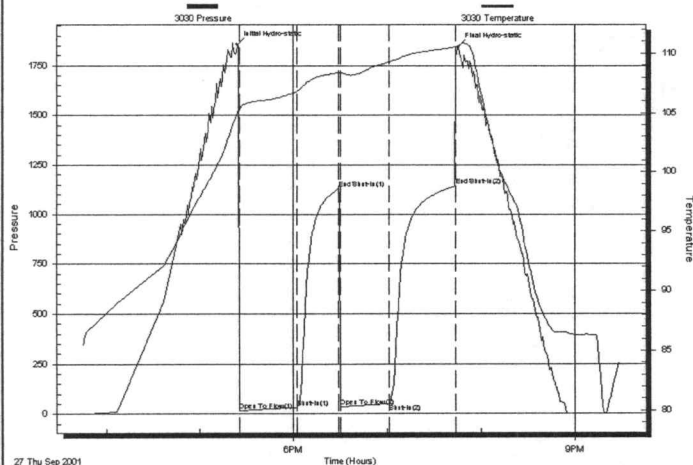
Last Calib.: 1899.12.30

Time On Btm: 2001.09.27 @ 17:24:16

Time Off Btm: 2001.09.27 @ 19:45:31

TEST COMMENT: IF; Weak surface blow throughout
FF; No return bow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1855.02	104.94	Initial Hydro-static
2	13.64	105.29	Open To Flow (1)
39	32.22	106.81	Shut-In (1)
66	1128.76	108.37	End Shut-In (1)
67	36.14	108.37	Open To Flow (2)
98	49.63	109.26	Shut-In (2)
140	1141.57	110.53	End Shut-In (2)
142	1842.57	110.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	HOCM 40% oil 60% mud	0.34

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Imperial American Oil Corp.

Diane #21-1

303 N Carroll #214
Denton TX. 76201

21-11S-20W Ellis KS.

Job Ticket: 18788

DST#: 3

ATTN: Randy Killian

Test Start: 2001.09.27 @ 15:45:01

Tool Information

Drill Pipe:	Length: 3506.00 ft	Diameter: 3.80 inches	Volume: 49.18 bbl	Tool Weight: 1800.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 45000.00 lb
			Total Volume: 49.77 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 30000.00 lb
Depth to Top Packer:	3616.00 ft			Final 30000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	59.00 ft			
Tool Length:	79.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			3601.00	
HMV	5.00			3606.00	
Packer	5.00			3611.00	20.00 Bottom Of Top Packer
Packer	5.00			3616.00	
Stubb	1.00			3617.00	
Recorder	0.00	3030	Inside	3617.00	
Perforations	20.00			3637.00	
C.O. Sub	1.00			3638.00	
Anchor	31.00			3669.00	
C.O. Sub	1.00			3670.00	
Recorder	0.00	13371	Outside	3670.00	
Bullnose	5.00			3675.00	59.00 Bottom Packers & Anchor

Total Tool Length: 79.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Imperial American Oil Corp.

Diane #21-1

303 N Carroll #214
Denton TX. 76201

21-11S-20W Ellis KS.

Job Ticket: 18788

DST#: 3

ATTN: Randy Killian

Test Start: 2001.09.27 @ 15:45:01

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: 45.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.35 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	HOCM 40%ol 60%mud	0.344

Total Length: 70.00 ft Total Volume: 0.344 bbl

Num Fluid Samples: 0

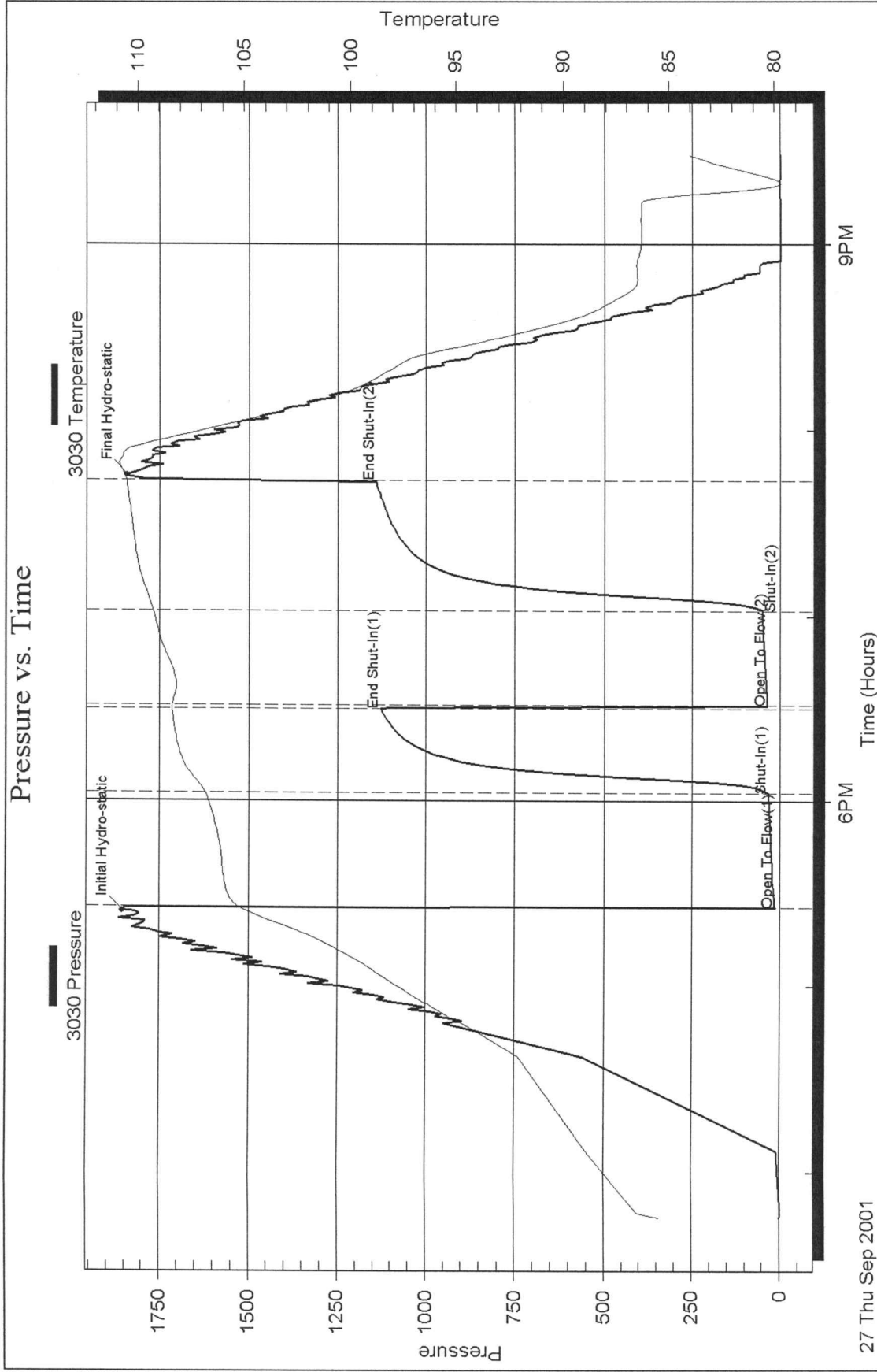
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Imperial American Oil Corp.**

303 N Carroll #214
Denton TX 76201

ATTN: Randy Killian

21-11S-20W Ellis KS.

Diane #21-1

Start Date: 2001.09.28 @ 08:46:57

End Date: 2001.09.28 @ 16:52:27

Job Ticket #: 14879 DST #: 4

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



TRILOBITE
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DRILL STEM TEST REPORT

Imperial American Oil Corp.

303 N Carroll #214
Denton TX. 76201

ATTN: Randy Killian

Diane #21-1

21-11S-20W Ellis KS.

Job Ticket: 14879

DST#: 4

Test Start: 2001.09.28 @ 08:46:57

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:18:42

Time Test Ended: 16:52:27

Test Type: Conventional Bottom Hole

Tester: Rod Steinbrink

Unit No: 22

Interval: **3740.00 ft (KB) To 3774.00 ft (KB) (TVD)**

Total Depth: 3774.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2144.00 ft (KB)

2139.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 3030

Inside

Press@RunDepth: 601.26 psig @ 3741.00 ft (KB)

Start Date: 2001.09.28 End Date: 2001.09.28

Start Time: 08:47:02 End Time: 16:52:26

Capacity: 7000.00 psig

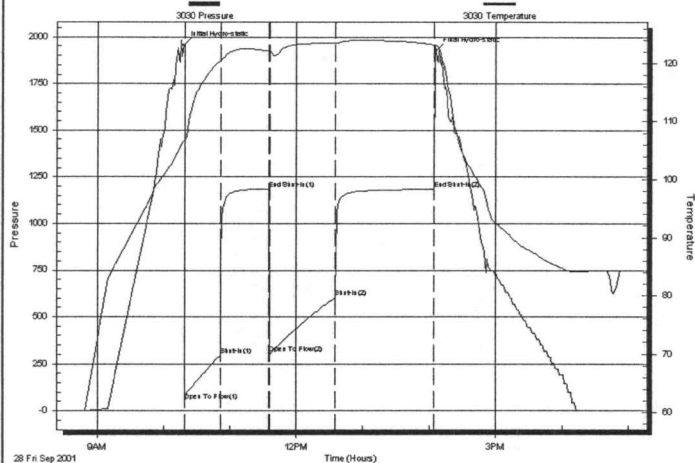
Last Calib.: 1899.12.30

Time On Btm: 2001.09.28 @ 10:17:42

Time Off Btm: 2001.09.28 @ 14:05:27

TEST COMMENT: IF; Fair to strong off btm in 4 mins
IS; Weak return built to 1/2"
FF; Fair to strong off btm in 4 mins
FS; No return blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1955.02	106.60	Initial Hydro-static
1	52.69	106.86	Open To Flow (1)
34	294.78	120.49	Shut-In(1)
78	1187.12	122.11	End Shut-In(1)
78	302.71	122.09	Open To Flow (2)
138	601.26	123.44	Shut-In(2)
227	1184.27	123.12	End Shut-In(2)
228	1926.32	123.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	OCM 40%oil 60%mud	1.43
1340.00	CGO 30%gas 70%mud	18.80

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Imperial American Oil Corp.

Diane #21-1

303 N Carroll #214
Denton TX. 76201

21-11S-20W Ellis KS.

Job Ticket: 14879

DST#: 4

ATTN: Randy Killian

Test Start: 2001.09.28 @ 08:46:57

Tool Information

Drill Pipe:	Length: 3630.00 ft	Diameter: 3.80 inches	Volume: 50.92 bbl	Tool Weight: 1800.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 50000.00 lb
		Total Volume: 51.51 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 30000.00 lb
Depth to Top Packer:	3740.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	54.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			3725.00	
HMV	5.00			3730.00	
Packer	5.00			3735.00	20.00 Bottom Of Top Packer
Packer	5.00			3740.00	
Stubb	1.00			3741.00	
Recorder	0.00	3030	Inside	3741.00	
Perforations	28.00			3769.00	
Recorder	0.00	13371	Outside	3769.00	
Bullnose	5.00			3774.00	34.00 Bottom Packers & Anchor
Total Tool Length:	54.00				



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TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Imperial American Oil Corp.

Diane #21-1

303 N Carroll #214
Denton TX. 76201

21-11S-20W Ellis KS.

Job Ticket: 14879

DST#: 4

ATTN: Randy Killian

Test Start: 2001.09.28 @ 08:46:57

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

21 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.35 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	OCM 40%oil 60%mud	1.432
1340.00	CGO 30%gas 70%mud	18.797

Total Length: 1520.00 ft

Total Volume: 20.229 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

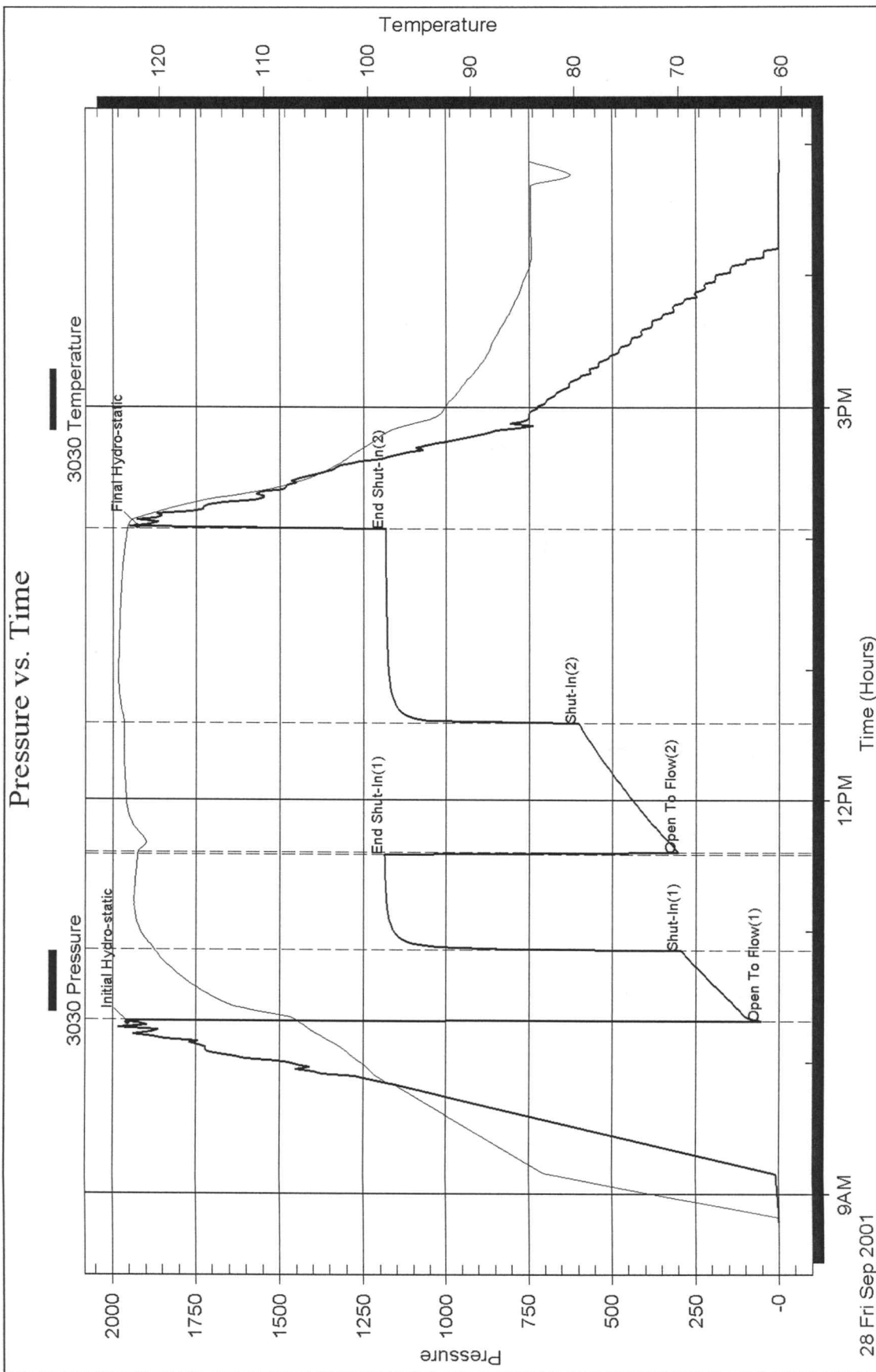
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Imperial American Oil Corp.**

303 N Carroll #214
Denton TX 76201

ATTN: Randy Killian

21-11S-20W Ellis KS.

Diane #21-1

Start Date: 2001.09.27 @ 22:31:03

End Date: 2001.09.28 @ 05:00:03

Job Ticket #: 14880 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Imperial American Oil Corp.

303 N Carroll #214
Denton TX. 76201

ATTN: Randy Killian

Diane #21-1

21-11S-20W Ellis KS.

Job Ticket: 14880

DST#: 5

Test Start: 2001.09.27 @ 22:31:03

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:55:03

Time Test Ended: 05:00:03

Test Type:

Tester: Rod Steinbrink

Unit No: 22

Interval: **3774.00 ft (KB) To 3784.00 ft (KB) (TVD)**

Total Depth: 3784.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2144.00 ft (KB)

2139.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 3030

Inside

Press@RunDepth: 741.25 psig @ 3775.00 ft (KB)

Start Date: 2001.09.27

End Date:

2001.09.28

Start Time: 22:31:08

End Time:

05:00:02

Capacity: 7000.00 psig

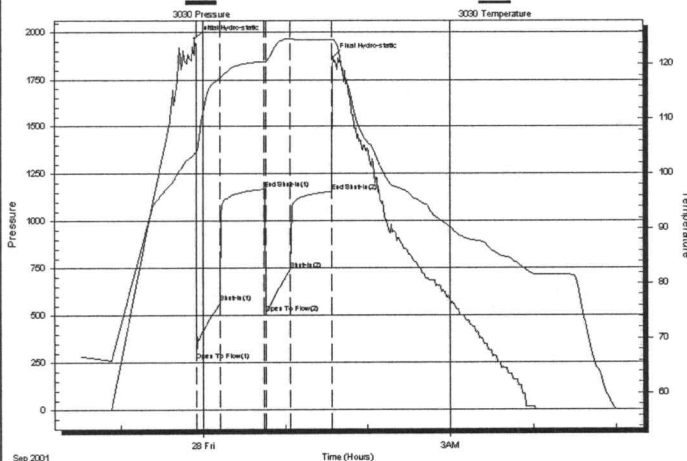
Last Calib.: 1899.12.30

Time On Btm: 2001.09.27 @ 23:53:48

Time Off Btm: 2001.09.28 @ 01:35:03

TEST COMMENT: IF; Strong blow off btm in 2 mins
IS; No return blow
FF; Strong blow off btm in 2 mins
FS; No return blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1967.62	103.66	Initial Hydro-static
2	263.50	104.02	Open To Flow (1)
19	566.69	117.50	Shut-In(1)
51	1170.15	120.47	End Shut-In(1)
52	513.00	120.47	Open To Flow (2)
70	741.25	124.61	Shut-In(2)
101	1156.69	124.50	End Shut-In(2)
102	1869.20	124.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	OCM 40%oil 60%mud	1.43
1680.00	CGO 30%gas 70%oil	23.57

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Imperial American Oil Corp.

Diane #21-1

303 N Carroll #214
Denton TX. 76201

21-11S-20W Ellis KS.

Job Ticket: 14880

DST#: 5

ATTN: Randy Killian

Test Start: 2001.09.27 @ 22:31:03

Tool Information

Drill Pipe:	Length:	3660.00 ft	Diameter:	3.80 inches	Volume:	51.34 bbl	Tool Weight:	1800.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length:	120.00 ft	Diameter:	2.25 inches	Volume:	0.59 bbl	Weight to Pull Loose:	50000.00 lb
					Total Volume:	51.93 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	26.00 ft						String Weight: Initial	30000.00 lb
Depth to Top Packer:	3774.00 ft						Final	42000.00 lb
Depth to Bottom Packer:	ft							
Interval between Packers:	10.00 ft							
Tool Length:	30.00 ft							
Number of Packers:	2	Diameter:	6.75 inches					
Tool Comments:								

Tool Description

Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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S.I. Tool	5.00		3759.00	
HMV	5.00		3764.00	
Packer	5.00		3769.00	20.00 Bottom Of Top Packer
Packer	5.00		3774.00	
Stubb	1.00		3775.00	
Recorder	0.00	3030 Inside	3775.00	
Perforations	4.00		3779.00	
Bullnose	5.00		3784.00	10.00 Bottom Packers & Anchor

Total Tool Length: 30.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Imperial American Oil Corp.

Diane #21-1

303 N Carroll #214
Denton TX. 76201

21-11S-20W Ellis KS.

Job Ticket: 14880

DST#: 5

ATTN: Randy Killian

Test Start: 2001.09.27 @ 22:31:03

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

21 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	OCM 40%oil 60%mud	1.432
1680.00	CGO 30%gasl 70%oil	23.566

Total Length: 1860.00 ft Total Volume: 24.998 bbl

Num Fluid Samples: 0

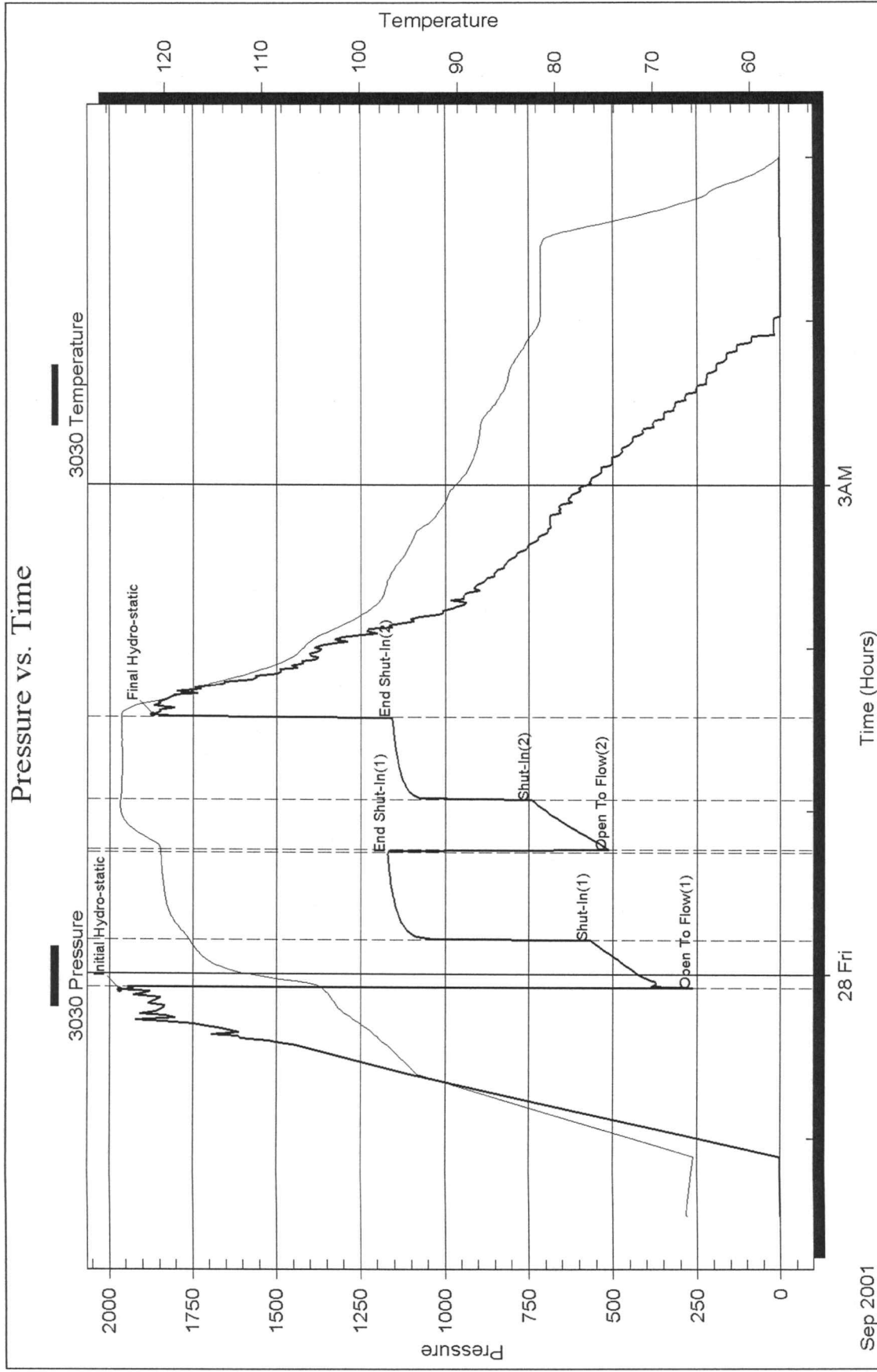
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Imperial American Oil Corp.**

303 N Carroll #214
Denton TX 76201

ATTN: Randy Killian

21-11S-20W Ellis KS.

Diane #21-1

Start Date: 2001.09.29 @ 10:46:28

End Date: 2001.09.29 @ 16:48:58

Job Ticket #: 15629 DST #: 6

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DRILL STEM TEST REPORT

Imperial American Oil Corp.

303 N Carroll #214
Denton TX. 76201

ATTN: Randy Killian

Diane #21-1

21-11S-20W Ellis KS.

Job Ticket: 15629

DST#: 6

Test Start: 2001.09.29 @ 10:46:28

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:26:58

Time Test Ended: 16:48:58

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 18

Interval: **3784.00 ft (KB) To 3795.00 ft (KB) (TVD)**

Total Depth: 3795.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2144.00 ft (KB)

2139.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 3017

Inside

Press@RunDepth: 186.98 psig @ 3785.01 ft (KB)

Start Date: 2001.09.29

End Date:

2001.09.29

Start Time: 10:46:29

End Time:

16:48:58

Capacity: 7000.00 psig

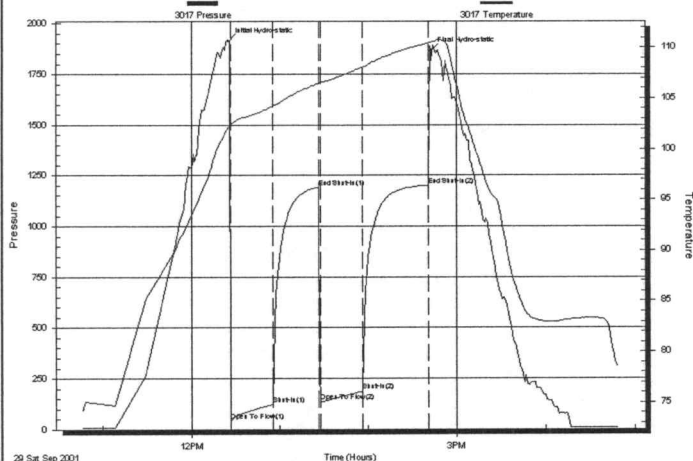
Last Calib.: 2001.09.29

Time On Btm: 2001.09.29 @ 12:25:28

Time Off Btm: 2001.09.29 @ 14:42:28

TEST COMMENT: IF-Good blow B.O.B.in 16 min. ISI-no blow
FF-Good blow B.O.B.in 27 min. FSI-no blow

Pressure vs. Time



PRESSURE SUMMARY

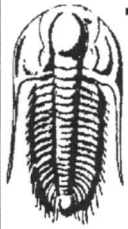
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1913.87	102.10	Initial Hydro-static
2	39.82	102.39	Open To Flow (1)
31	124.11	104.23	Shut-In (1)
61	1192.24	106.48	End Shut-In (1)
62	135.79	106.56	Open To Flow (2)
91	186.98	108.04	Shut-In (2)
136	1201.80	110.46	End Shut-In (2)
137	1863.84	110.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
470.00	C-G-Oil 25% Gas 75% oil	5.46

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Imperial American Oil Corp.

Diane #21-1

303 N Carroll #214
Denton TX. 76201

21-11S-20W Ellis KS.

Job Ticket: 15629

DST#: 6

ATTN: Randy Killian

Test Start: 2001.09.29 @ 10:46:28

Tool Information

Drill Pipe:	Length: 3657.00 ft	Diameter: 3.80 inches	Volume: 51.30 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 40000.00 lb
		Total Volume:	51.91 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	3784.00 ft			Final 36000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	11.02 ft			
Tool Length:	31.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3765.00	
S.I. Tool	5.00			3770.00	
HMV	5.00			3775.00	
Packer	4.00			3779.00	20.00 Bottom Of Top Packer
Packer	5.00			3784.00	
Stubb	1.00			3785.00	
Recorder	0.01	3017	Inside	3785.01	
Perforations	7.00			3792.01	
Recorder	0.01	13308	Outside	3792.02	
Bullnose	3.00			3795.02	11.02 Bottom Packers & Anchor
Total Tool Length:	31.02				



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Job Ticket: 15629

DST#: 6

ATTN: Randy Killian

Test Start: 2001.09.29 @ 10:46:28

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

21 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
470.00	C-G-Oil 25%Gas 75%oil	5.463

Total Length: 470.00 ft

Total Volume: 5.463 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 3017

Inside

Imperial American Oil Corp.

21-11S-20W Ellis KS.

DST Test Number: 6

