

15-051-25065-0000

10-11s-19w



DRILL STEM TEST REPORT

Prepared For: **Hertel Oil Co**

704 E 12th
Hays Ks 67601

ORIGINAL

ATTN: Al Hertel

10-11S-19W-Ellis co

Keller #1

RECEIVED Kellen 1

KANSAS CORPORATION COMPANY

FEB 2 2001

15-051-25065

N2 NW NW

330 FNL 510 FWL

Trilobite Testing Inc.

Box 362 Hays KS 67601

785.625.4778 trilobite@eaglecom.net

Hertel Oil Co

Keller #1

10-11S-19W-Ellis co

DST # 2

Arbuckle

2000.12.22

TRILOBITE TESTING L.L.C.

ORIGINAL

OPERATOR : Hertel Oil Co.

DATE 12-21-00

WELL NAME: Keller #1

KB 2033.00 ft

TICKET NO: 13947 DST #1

LOCATION : 10-11S-19W Ellis co KS

GR 2028.00 ft

FORMATION: Toronto A-B-C-D

INTERVAL : 3201.00 To 3313.00 ft

TD 3313.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13254	13254	13248			PF Fr. 0943 to 1013 hr
SI 45 Range(Psi)	4550.0	4550.0	4250.0	0.0	0.0	IS Fr. 1013 to 1058 hr
SF 60 Clock(hrs)	12hr	12hr	12hr			SF Fr. 1058 to 1158 hr
FS 60 Depth(ft)	3291.0	3291.0	3204.0	0.0	0.0	FS Fr. 1158 to 1258 hr

	Field	1	2	3	4	
A. Init Hydro	1647.0	1618.0	0.0	0.0	0.0	T STARTED 0730 hr
B. First Flow	106.0	113.0	0.0	0.0	0.0	T ON BOTM 0940 hr
B1. Final Flow	260.0	252.0	0.0	0.0	0.0	T OPEN 0943 hr
C. In Shut-in	651.0	660.0	0.0	0.0	0.0	T PULLED 1258 hr
D. Init Flow	319.0	322.0	0.0	0.0	0.0	T OUT 1530 hr
E. Final Flow	438.0	425.0	0.0	0.0	0.0	
F. Fl Shut-in	651.0	659.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1553.0	1560.0	0.0	0.0	0.0	Tool Wt. 1000.00 lbs
Inside/Outside	I	I	O			Wt Set On Packer 30000.00 lbs
						Wt Pulled Loose 38000.00 lbs
						Initial Str Wt 34000.00 lbs
						Unseated Str Wt 35000.00 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 0.00 ft
						D.P. Length 2521.00 ft

RECOVERY

Tot Fluid 868.00 ft of 0.00 ft in DC and 868.00 ft in DP
 434.00 ft of Oil cut gassy muddy water
 0.00 ft of 10%gas 10%oil 60%water 20%mud
 434.00 ft of Muddy water w/scum of oil throughout
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 SALINITY 75000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
 Weak building to 10" fair blow in
 20 minutes - then decreasing to 8"
 in 30 minutes

Final Flow:

Weak building to 6" in 20 minutes
 Then decreasing to 3" in 45 minutes

SAMPLES:

SENT TO:

MUD DATA-----
 Mud Type Chemical
 Weight 9.10 lb/cf
 Vis. 47.00 S/L
 W.L. 12.00 in3
 F.C. 0.00 in
 Mud Drop

Amt. of fill 0.00 ft
 Btm. H. Temp. 0.00 F
 Hole Condition
 % Porosity 0.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00
 Cushion Type
 Reversed Out
 Tool Chased
 Tester Dan Bangle
 Co. Rep. Randy Kilian
 Contr. A&A Production
 Rig #
 Unit #
 Pump T.

Test Successful: Y



DRILL STEM TEST REPORT

Prepared For: **Hertel Oil Co**

704 E 12th
Hays Ks 67601

ATTN: Al Hertel

10-11S-19W-Ellis co

Keller #1

Start Date: 2000.12.22 @ 15:52:00

End Date: 2000.12.22 @ 20:04:00

Job Ticket #: 13948 DST #: 2

Trilobite Testing Inc.
Box 362 Hays KS 67601
785.625.4778 trilobite@eaglecom.net



DRILL STEM TEST REPORT

Hertel Oil Co

704 E 12th
Hays Ks 67601

ATTN: Al Hertel

Keller #1

10-11S-19W-Ellis co

Job Ticket: 13948

DST#: 2

Test Start: 2000.12.22 @ 15:52:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:54:50

Time Test Ended: 20:04:00

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 11

Interval: 3552.00 ft (KB) To 3562.00 ft (KB) (TVD)

Total Depth: 3562.00 ft (KB)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2033.00 ft (KB)

2028.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 3289

Press@RunDepth: 31.06 psig @ ft (KB)

Start Date: 2000.12.22

End Date:

2000.12.22

Start Time: 15:52:22

End Time:

22:12:50

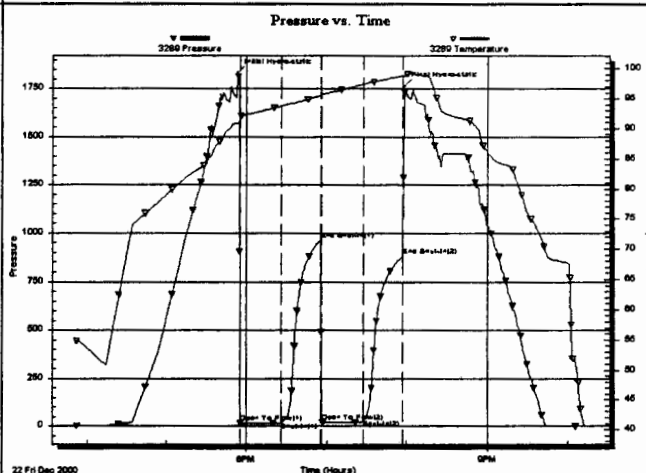
Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2000.12.22 @ 17:53:20

Time Off Btm: 2000.12.22 @ 19:58:50

TEST COMMENT: IF-Weak steady surface blow
FF-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
121	1832.33	90.96	Initial Hydro-static
123	15.78	91.59	Open To Flow (1)
154	16.97	93.79	Shut-In(1)
183	963.33	95.52	End Shut-In(1)
184	19.19	95.77	Open To Flow (2)
216	31.06	97.43	Shut-In(2)
245	880.58	98.89	End Shut-In(2)
247	1762.72	98.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud w/ oil spots	0.14

Gas Rates

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

TOOL DIAGRAM

Hertel Oil Co

Keller #1

704 E 12th
Hays Ks 67601

10-11S-19W-ELLIS CO

Job Ticket: 13948

DST#: 2

ATTN: Al Hertel

Test Start: 2000.12.22 @ 15:52:00

Tool Information

Drill Pipe:	Length: 2804.00 ft	Diameter: 3.80 inches	Volume: 39.33 bbl	Tool Weight: 800.00 lb
Drill Collar:	Length: 0.01 ft	Diameter: 0.01 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Heavy Wt. Pipe:	Length: 744.00 ft	Diameter: 3.80 inches	Volume: 10.44 bbl	Weight to Pull Loose: 40000.00 lb
Drill Pipe Above KB:	16.01 ft			Tool Chased 0.01 ft
Depth to Top Packer:	3547.00 ft			String Weight: Initial 35000.00 lb
Depth to Bottom Packer:	ft			Final 35000.00 lb
Interval between Packers:	ft			
Tool Length:	30.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

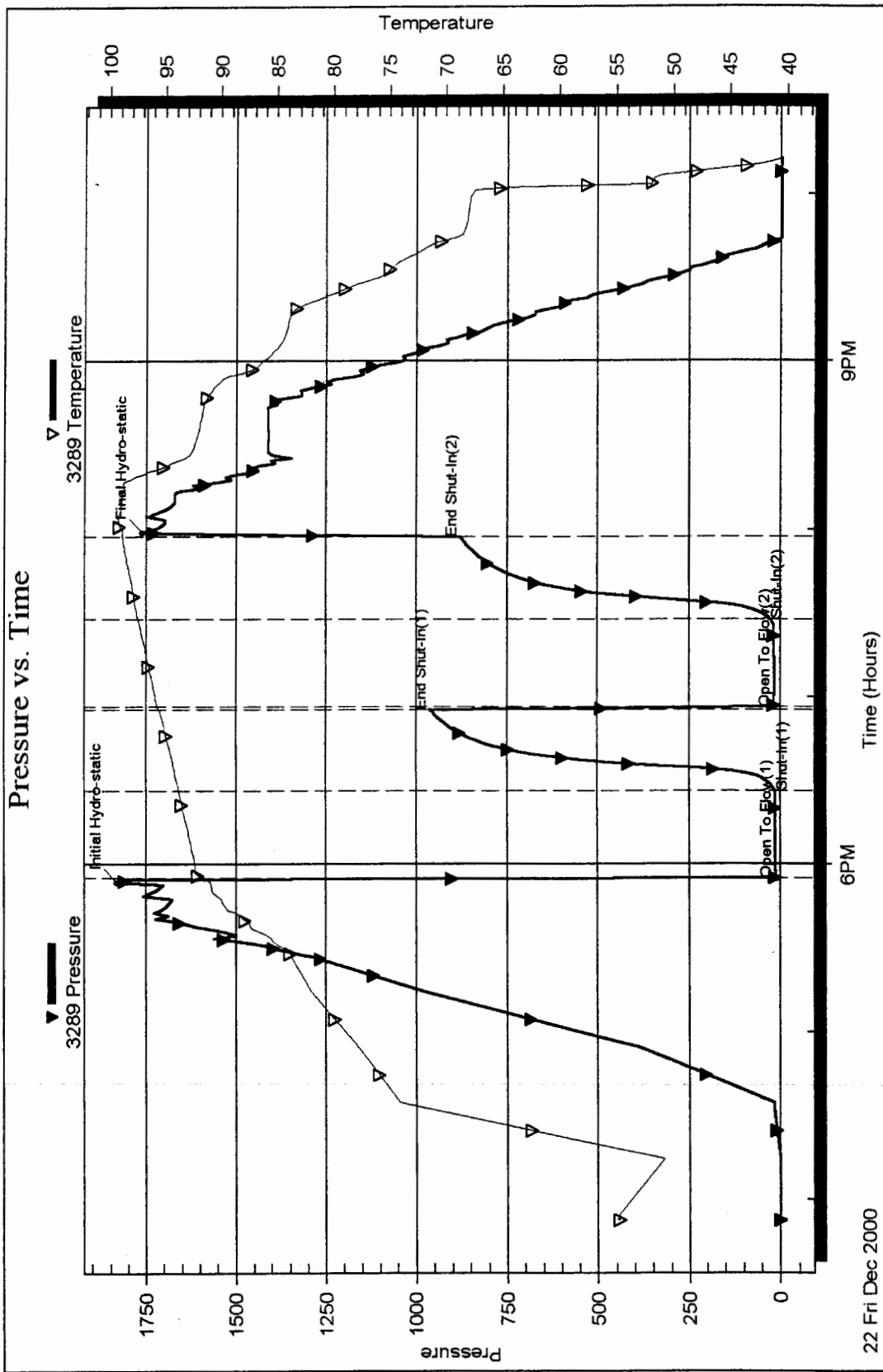
Tool Comments

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			3537.00	
HYD S.I. Tool	5.00			3542.00	
Packer	5.00			3547.00	15.00 Bottom Of Top Packer
Packer	5.00			3552.00	
Stubb	1.00			3553.00	
Recorder	0.01	3289	Inside	3553.01	
Perforations	4.00			3557.01	
Recorder	0.01	13254	Outside	3557.02	
Bullnose	5.00			3562.02	15.02 Bottom Packers & Anchor
Total Tool Length:	30.02				

Serial #: 3289

Hertel Oil Co

10-11S-19W-Ellis co



Trilobite Testing Inc.

Ref. No: 13948

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DRILL STEM TEST REPORT

Prepared For: **Hertel Oil Co**

704 E 12th
Hays Ks 67601

ATTN: Al Hertel

10-11S-19W-Ellis co

Keller #1

Start Date: 2000.12.23 @ 08:12:00

End Date: 2000.12.23 @ 12:55:00

Job Ticket #: 13949 DST #: 3

Trilobite Testing Inc.
Box 362 Hays KS 67601
785.625.4778 trilobite@eaglecom.net



DRILL STEM TEST REPORT

Hertel Oil Co

704 E 12th
Hays Ks 67601

ATTN: Al Hertel

Keller #1

10-11S-19W-ELLIS co

Job Ticket: 13949

DST#: 3

Test Start: 2000.12.23 @ 08:12:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:10:33

Time Test Ended: 12:55:00

Interval: **3552.00 ft (KB) To 3567.00 ft (KB) (TVD)**

Total Depth: 3567.00 ft (KB)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 11

Reference Elevations: 2033.00 ft (KB)

2028.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: **3289**

Press@RunDepth: 203.72 psig @ ft (KB)

Start Date: 2000.12.23

End Date:

2000.12.23

Start Time: 08:12:05

End Time:

16:20:03

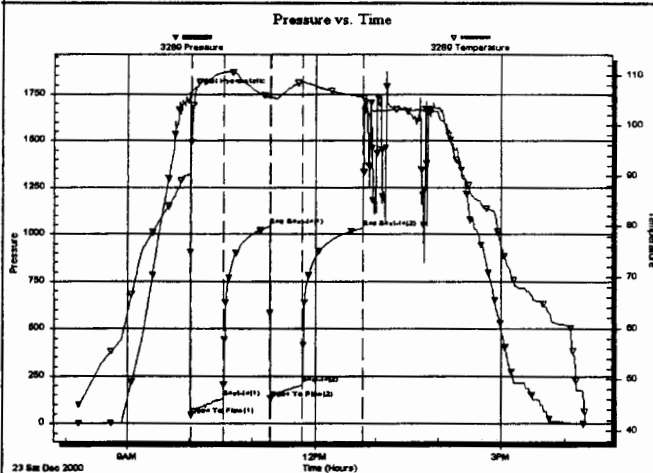
Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2000.12.23 @ 10:00:33

Time Off Btm:

TEST COMMENT: IF-B.O.B in 10 min
FF-B.O.B in 30 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
109	1758.11	90.42	Initial Hydro-static
110	39.60	94.62	Open To Flow (1)
141	133.58	110.52	Shut-In(1)
185	1041.54	105.48	End Shut-In(1)
185	127.30	105.50	Open To Flow (2)
216	203.72	108.64	Shut-In(2)
275	1033.15	105.70	End Shut-In(2)

Recovery

Length (ft)	Description	Volume (bbl)
438.00	Heavy mud cut frothy oil 18 gravity	6.14

Gas Rates

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

TOOL DIAGRAM

Hertel Oil Co

Keller #1

704 E 12th
Hays Ks 67601

10-11S-19W-Ellis co

Job Ticket: 13949

DST#: 3

ATTN: Al Hertel

Test Start: 2000.12.23 @ 08:12:00

Tool Information

Drill Pipe:	Length: 2804.00 ft	Diameter: 3.80 inches	Volume: 39.33 bbl	Tool Weight: 800.00 lb
Drill Collar:	Length: 0.01 ft	Diameter: 0.01 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Heavy Wt. Pipe:	Length: 744.00 ft	Diameter: 3.80 inches	Volume: 10.44 bbl	Weight to Pull Loose: 80000.00 lb
Drill Pipe Above KB:	16.01 ft			Tool Chased 0.01 ft
Depth to Top Packer:	3547.00 ft			String Weight: Initial 35000.00 lb
Depth to Bottom Packer:	ft			Final 36000.00 lb
Interval between Packers:	ft			
Tool Length:	35.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

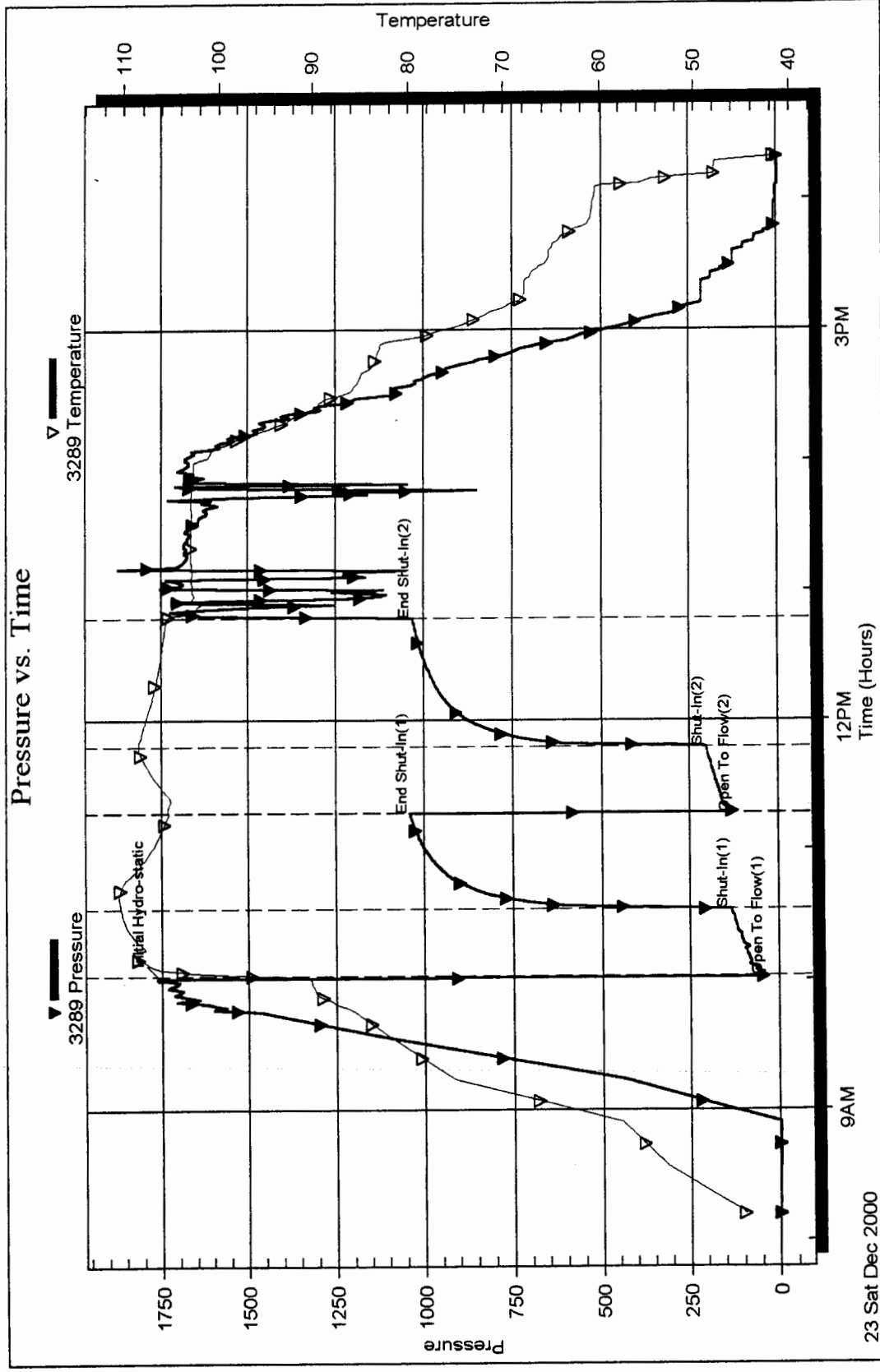
Tool Comments

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			3537.00	
HYD S.I. Tool	5.00			3542.00	
Packer	5.00			3547.00	15.00 Bottom Of Top Packer
Packer	5.00			3552.00	
Stubb	1.00			3553.00	
Recorder	0.01	3289	Inside	3553.01	
Perforations	5.00			3558.01	
Perforations	4.00			3562.01	
Recorder	0.01	13254	Outside	3562.02	
Bullnose	5.00			3567.02	20.02 Bottom Packers & Anchor
Total Tool Length:		35.02			

Serial #: 3289

Hertel Oil Co

10-11S-19W-Elis co



Tribbitt Testing Inc.

Ref. No: 13949

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