



DRILL STEM TEST REPORT

Prepared For: **Helmerich & Payne**

1579 E 21st
Tulsa, OK 74114

ATTN: Wes Hansen

10-27-34W Haskell KS

Kuhn #7-10

Start Date: 2001.02.05 @ 10:00:00

End Date: 2001.02.05 @ 05:38:00

Job Ticket #: 13454 DST #: 1

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DST#: 1

Test Start: 2001.02.05 @ 10:00:00

GENERAL INFORMATION:

Formation: **Chester sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:22:31

Time Test Ended: 05:38:00

Test Type: Conventional Bottom Hole

Tester: Mike Colantonio

Unit No: 20

Interval: **5130.00 ft (KB) To 5180.00 ft (KB) (TVD)**

Total Depth: 5180.00 ft (KB)

Hole Diameter: 7.78 inches Hole Condition: Fair

Reference Elevations: 2973.00 ft (KB)

2962.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: **3027** Inside

Press@RunDepth: 65.79 psig @ 5135.00 ft (KB)

Start Date: 2001.02.05

End Date:

2001.02.05

Capacity: 7000.00 psig

Last Calib.: 2001.02.05

Start Time: 10:15:18

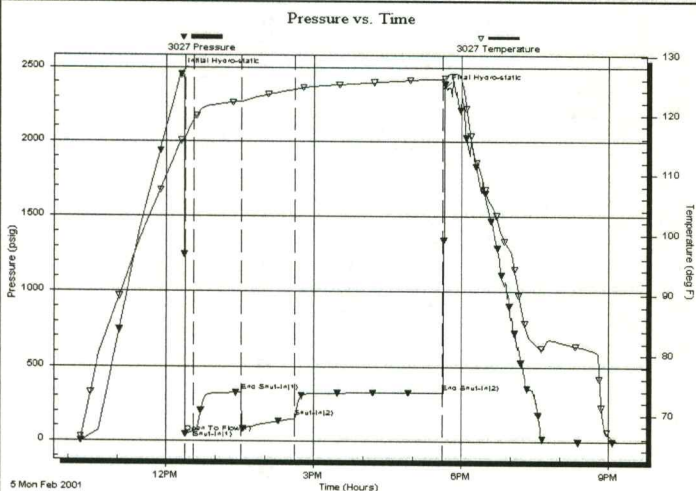
End Time:

21:13:01

Time On Btm: 2001.02.05 @ 12:17:31

Time Off Btm: 2001.02.05 @ 17:38:46

TEST COMMENT: Sampler Data 2.6 Cubic Ft Gas 325PSI 150MI Oil 2400MI Mud Corrected gravity 35 1st Opening surface blow built to 10" blow
2nd. opening strong blow B.O.B. in 2 min.
FSI Had surface blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
123	2460.63	115.58	Initial Hydro-static
128	43.54	116.34	Open To Flow (1)
139	65.79	119.21	Shut-In(1)
196	323.66	122.37	End Shut-In(1)
261	151.45	124.41	Shut-In(2)
441	324.57	126.22	End Shut-In(2)
444	2359.29	126.22	Final Hydro-static

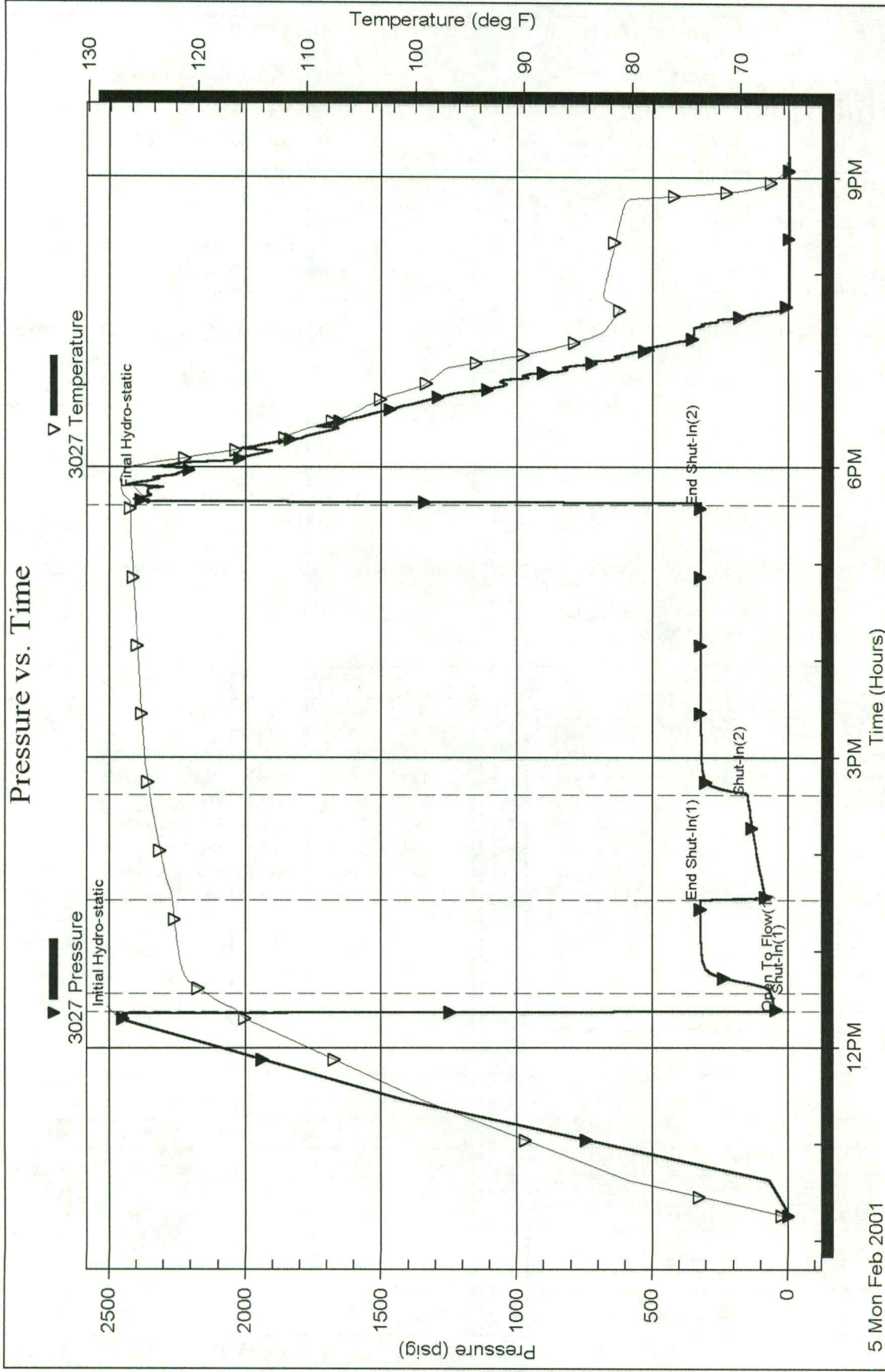
Recovery

Length (ft)	Description	Volume (bbl)
140.00	G-M-O 35%Gas 15% Oil 50% Mud	0.69
60.00	G-H-O-C-M 30%Gas 30%Oil 40%Mud	0.30
60.00	G-O 15%Gas 85%Oil	0.30

Gas Rates

	Choke(inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Pressure vs. Time



CALCULATED RECOVERY ANALYSIS

DST 1

TICKET 13454

SAMPLE #		TOTAL	GAS		OIL		WATER		MUD	
		FEET	%	FEET	%	FEET	%	FEET	%	FEET
DRILL	1	2860	100	2860	0	0	0	0	0	0
PIPE	2	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0	0
	6	0	0	0	0	0	0	0	0	0
WEIGHT	1	0	0	0	0	0	0	0	0	0
PIPE	2	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0	0
DRILL	1	140	35	49	15	21	0	0	50	70
COLLARS	2	60	30	18	30	18	0	0	40	24
	3	60	15	9	85	51	0	0	0	0
	4	0	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0	0
TOTAL		3120	0	2936	0	90	0	0	0	94

BBL OIL=	0.4401	*	HRS OPEN	1.25	=	BBL/DAY	8.44992
BBL WATER=	0	*			=		0
BBL MUD=	0.45966						
BBL GAS =	41.04084						

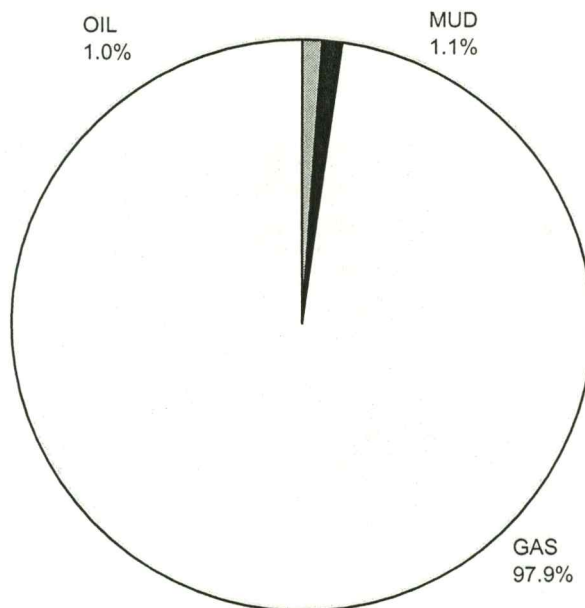
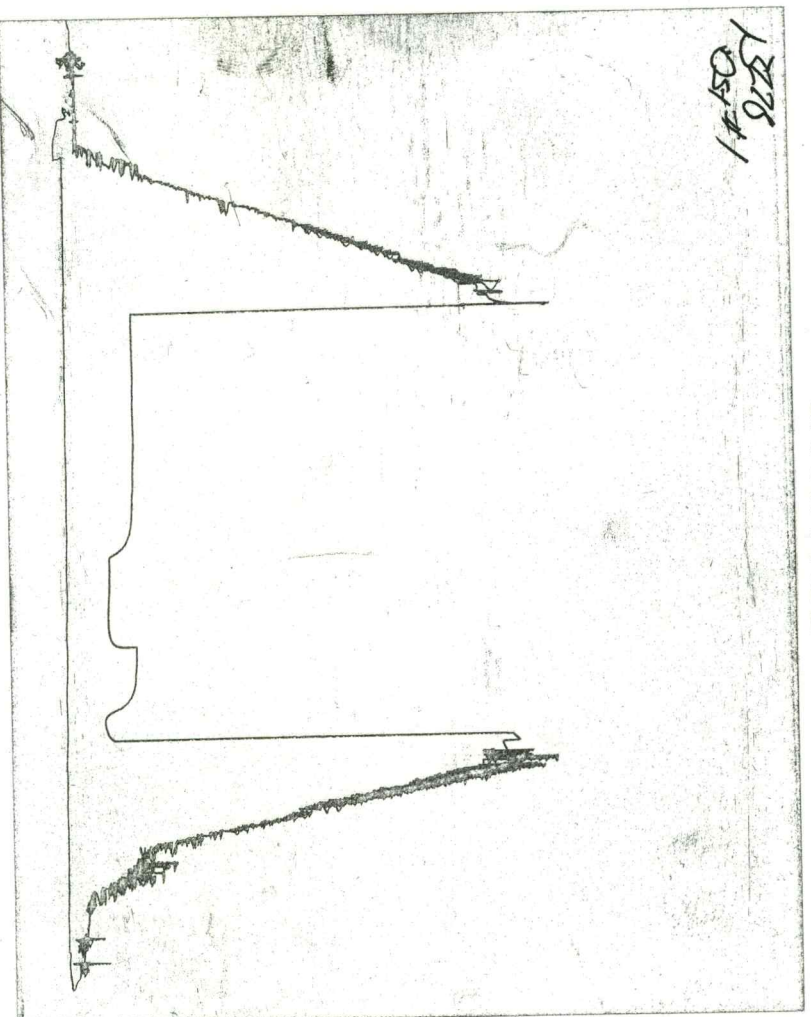


CHART PAGE



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