



APPENDIX 13 FROM WCR.  
FORMATION TESTING.  
BOGGY CREEK - 1  
WIOS3

# **APPENDIX-13**

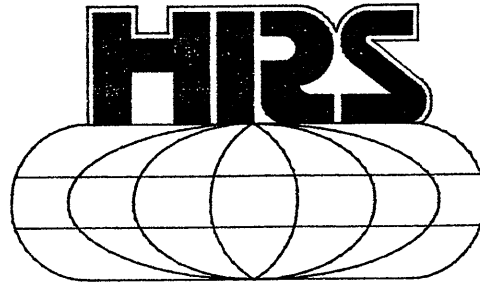
Formation Testing (DST-1)

RECEIVED

28 JAN 1992

GAS & FUEL EXPLORATION N.L.

# FORMATION TEST REPORT



## HALLIBURTON RESERVOIR SERVICES



A Halliburton Company

Customer: GAS & FUEL EXPLORATION N/L  
Well Description: BOGGY CREEK #1  
Field Name: OTWAY BASIN

TEST NO: DST #1  
TEST DATE: 31st December 1991  
TICKET NO: 001130

HALLIBURTON  
RESERVOIR  
SERVICES

REPORT TICKET NO: 001130  
BT-GAUGE TICKET NO: 001130  
DATE: 31/12/91  
HALLIBURTON CAMP: MOOMBA  
TESTER: D.Burt  
WITNESS: G.Nicot

DRILLING CONTRACTOR: GEARHART Rig#2  
LEGAL LOCATION: see remarks

OPERATOR: GAS & FUEL EXP.  
LEASE NAME: BOGGY CREEK  
WELL NO: 1  
TEST NO: 1  
TESTED INTERVAL: 5452.83 - 5489.00 ft

FIELD AREA: OTWAY BASIN  
COUNTY/LSD:  
STATE/PROVINCE: VICTORIA  
COUNTRY: AUSTRALIA

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Date: 31/12/91

Ticket No: 001130

Page No: 1.1

SUMMARY OF TEST

Lease Owner: GAS & FUEL EXP.

Lease Name: BOGGY CREEK

Well No.: 1

Test No.: 1

County/LSD:

State/Province: VICTORIA

Country: AUSTRALIA

Formation Tested: WAARRE

Hole Temp: 155.00 F

Total Depth: 5489.00 ft

Net Pay: 36.00 ft

Gross Tested Interval: 5452.83 - 5489.00 ft

Perforated Interval (ft):

RECOVERY:

REMARKS:

ALL DOWNHOLE PRESSURES ARE IN ABSOLUTE PSIA.  
PLUGGING OF LOWER TEST STRING ON INITIAL OPENING DUE TO FILL.

LEGAL LOCATION: - LAT - 38 31' 33.67" S  
- LONG- 142 49' 30.20" E

Date: 31/12/91

Ticket No: 001130

Page No: 1.2

TEST PERIOD SUMMARY

Gauge No.: 8721 Depth: 5486.00 ft Blanked off : Yes  
Clock no.: 30347 Hour: 24

ID	PERIOD	DESCRIPTION	PRESSURE (psi)	DURATION (min)
A		Initial Hydrostatic	2676.73	
B	1	Start Draw-down	2441.54	
C		End Draw-down	2447.75	15.24
C	2	Start Build-up	2447.75	
D		End Build-up	2988.22	34.29
E	3	Start Draw-down	2117.95	
F		End Draw-down	2382.54	60.09
F	4	Start Build-up	2382.54	
G		End Build-up	2449.55	65.58
H		Final Hydrostatic	2668.40	

NOTE: for Pressure vs. Time Plot, see next page.

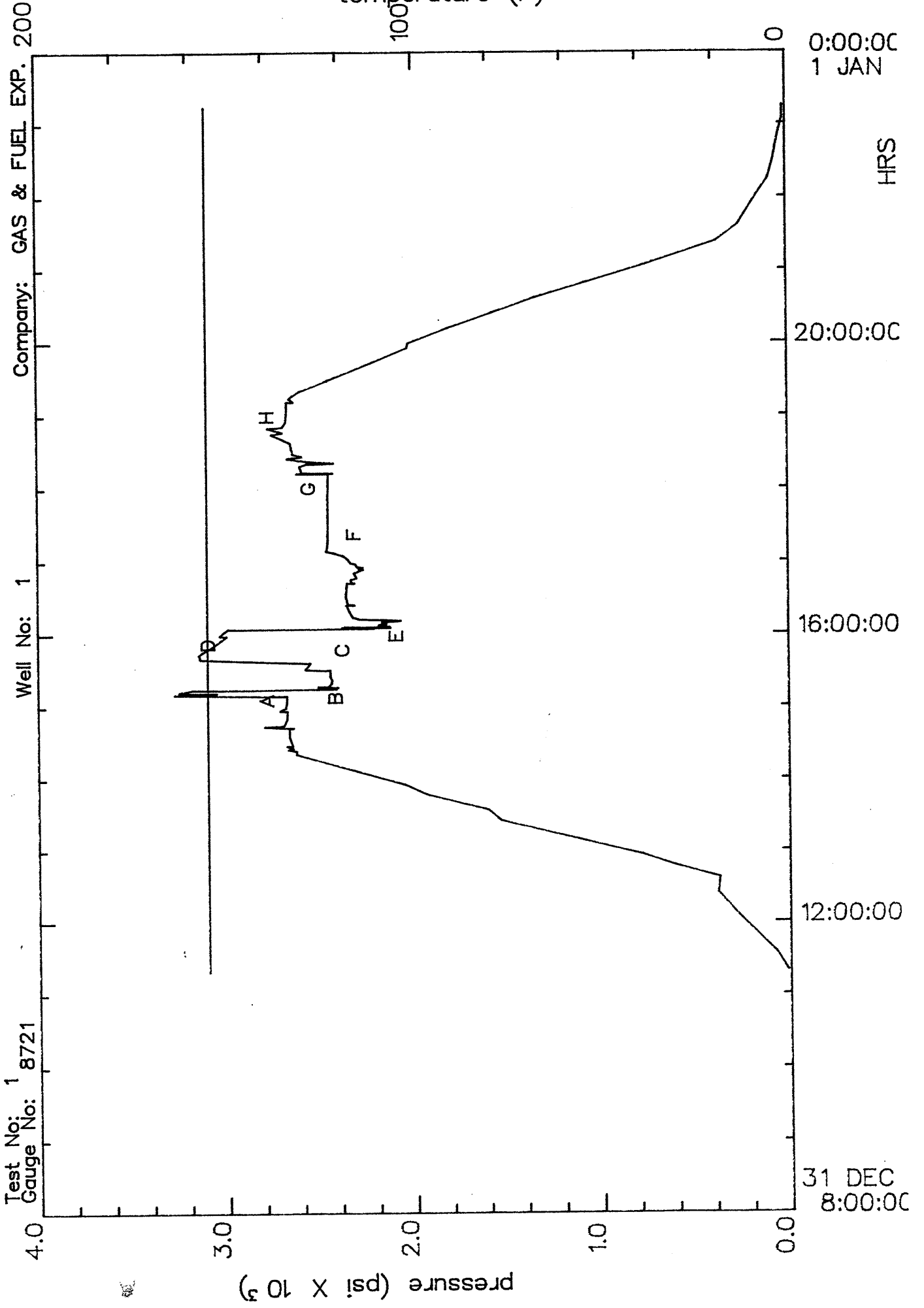
Date: 31/12/91

Ticket No: 001130

Page No: 1.3

temperature (F)

# Pressure/Temperature History





## TEST AND FORMATION DATA

Formation Tested: WAARRE  
 All Depths Measured From: KELLY BUSHINGS  
 Elevation: 114.80 ft  
 Total Depth: 5489.00 ft  
 Net Pay: 36.00 ft  
 Hole or Casing Size: 8.500 in  
 Gross Tested Interval: 5452.83 - 5489.00 ft  
 Perforated Interval (ft):

## HOLE FLUID

Type: KCL MUD  
 Weight: 9.33 lbm/gal  
 Viscosity: 45.00 cp

## HOLE TEMPERATURE

Depth: 5485.00 ft  
 Estimated: F  
 Actual: 155.00 F

## HYDROCARBON PROPERTIES

## CUSHION DATA

	@ 60 F	TYPE	AMOUNT	WEIGHT
Oil Gravity (API):		NIL		
Gas/Oil ratio (ScF/STB):				
Gas Gravity (SG):				

## FLUID PROPERTIES FOR RECOVERED MUD AND WATER

SOURCE	RESISTIVITY	CHLORIDES	SG	PH
	@	F		
	@	F		
	@	F		
	@	F		
	@	F		
	@	F		

## SAMPLER DATA

Surface Pressure: psi  
 Volume of Gas: ft3  
 Volume of Oil: cc  
 Volume of Water: cc  
 Volume of Mud: cc  
 Total Liquids: cc

## REMARKS:

ALL DOWNHOLE PRESSURES ARE IN ABSOLUTE PSIA.  
 PLUGGING OF LOWER TEST STRING ON INITIAL OPENING DUE TO FILL.

LEGAL LOCATION: - LAT - 38 31' 33.67" S  
 - LONG- 142 49' 30.20" E

Date: 31/12/91





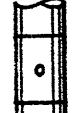

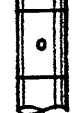







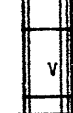







Ticket No: 001130

Page No: 1.5

RATE HISTORY TABLE

Period No	Test Type	j	Prod Rate q(j) (Mscf/D)	Duration (hrs)	Cum. Time t(j) (hrs)
		0	0.0	0.00	0.00



TEST STRING CONFIGURATION

	O.D. (in)	I.D. (in)	LENGTH (ft)	DEPTH (ft)
 DRILL PIPE .....	4.500	3.826	4768.550	
 FLEX WEIGHT .....	4.500	2.250	182.710	
 RIG JARS .....	6.250		32.250	
 DRILL COLLARS .....	6.250	2.250	361.610	
 PUMP OUT REVERSING SUB ..	6.000	3.000	1.000	5345.620
 DRILL COLLARS .....	6.250	2.250	30.020	
 IMPACT REVERSING SUB .....	6.000	3.000	1.000	5376.640
 DRILL COLLARS .....	6.250	2.250	30.640	
 BAR CATCHER SUB .....	5.750	1.000	1.000	
 AP RUNNING CASE .....	5.000	2.250	4.140	5409.920
 CROSSOVER .....	5.000	2.200	1.000	
 DUAL CIP VALVE .....	5.000	0.870	4.870	
 SAMPLE CHAMBER .....	5.000	2.500	4.140	
 DRAIN VALVE .....	5.000	2.200	0.860	
 HYDROSPRING TESTER .....	5.000	0.750	5.310	5428.100
 AP RUNNING CASE .....	5.000	2.250	4.140	5430.240
 JAR .....	5.000	1.750	5.000	
 VR SAFETY JOINT .....	5.000	1.000	2.780	
 OPEN HOLE PACKER .....	7.500	1.530	5.810	5445.020
 DISTRIBUTOR VALVE .....	5.000	1.680	2.000	
 OPEN HOLE PACKER .....	7.500	1.530	5.810	5452.830
 ANCHOR PIPE SAFETY JOINT ..	5.000	1.500	4.300	

CONTINUED

HRS

TEST STRING CONFIGURATION

	O.D. (in)	I.D. (in)	LENGTH (ft)	DEPTH (ft)
 FLUSH JOINT ANCHOR .....	5.000	2.370	26.000	
 BLANKED-OFF RUNNING CASE	5.000	2.440	4.060	5486.000
TOTAL DEPTH				5489.00

Date: 31/12/91  
Test No: 1

Ticket No: 001130

Page No: 1.7.1

OPERATOR JOB LOG

Type of Flow Measuring Device: 6"CERAMIC CHOKE

TIME HH:MM:SS	CHOKE SIZE (in)	SURFACE PRESSURE (psi)	GAS RATE (Mscf/D)	LIQUID RATE (bbl/D)	REMARKS
31-Dec-91					
09:45:00					SURFACE PRESSURE = PSIG
09:45:00					PICK UP TEST TOOLS
10:00:00					MAKE UP TEST TOOLS
10:00:00					WAIT ON TEST INTERVAL
10:00:00					CONFIRMATION
11:10:00					MAKE UP TAIL PIPE
11:25:00					RUN IN HOLE
12:24:00					MAKE UP TEST HEAD
14:40:00					RIG UP SURFACE EQUIPMENT
14:45:00					TAG BOTTOM, 7ft OF FILL
14:48:00					PRES.TEST SURF.EQUIPMENT
15:10:00					SET PACKERS-34000lb
15:12:00					TOOL OPEN, STRING SKIDDING,
15:12:00					TOOL CLOSED, RESET PACKERS
15:15:00					TOOL OPEN, CHOKES CLOSED,
15:15:00					FEW BUBBLES
15:30:00					CLOSE TOOL
16:00:00					ROTATE STRING 6 TURNS-5min.
16:05:00					CONTINUE 8 TURNS
16:07:00	16/64	0.00			TOOL OPEN, OPEN CHOKE
16:07:00					STRONG BLOW
16:08:00	32/64	130.00			OPEN 32/64" CHOKE, CLOSE
16:08:00	32/64	130.00			16/64" CHOKE
16:08:00					STRONG BLOW - CO2 TO SURF.
16:10:00	32/64	150.00			
16:15:00	32/64	330.00			CLOSE MANIFOLD, REOPEN MAN.
16:20:00	32/64	500.00			75F CHICKSAN TEMP, SAMPLE#1
16:25:00	32/64	600.00			75F SURF LINE TEMP
16:30:00	32/64	700.00			75F TEMP
16:35:00	32/64	800.00			77F TEMP
16:40:00	32/64	880.00			78F TEMP
16:40:00					ICE BUILDING ON CHICKSANS
16:40:00					AND END OF FLARE LINE WITH
16:40:00					DRY GAS AND AN INTERMITTENT
16:40:00					PUFF OF WHITE SMOKE
16:45:00	32/64	900.00			78F TEMP
16:50:00	32/64	960.00			78f TEMP, SAMPLE#2
16:55:00	32/64	1000.00			78F TEMP
17:00:00	32/64	1050.00			
17:05:00		1100.00			80F TEMP - CLOSE TOOL
18:11:00					OPEN BYPASS, PULL FREE
18:20:00					DROP BAR
18:21:00					PIN SHEARED, START PUMPING
18:35:00					CLOSE HYDRIL
18:37:00					REVERSE CIRCULATE.

Date: 31/12/91  
Test No: 1

Ticket No: 001130

Page No: 1.7.2

OPERATOR JOB LOG

Type of Flow Measuring Device: 6"CERAMIC CHOKE

TIME	CHOKE SIZE	SURFACE PRESSURE	GAS RATE	LIQUID RATE	REMARKS
HH:MM:SS	(in)	(psi)	(Mscf/D)	(bbl/D)	

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31-Dec-91

19:00:00

19:10:00

22:30:00

23:40:00

RIG DOWN SURFACE EQUIPMENT

PULL OUT OF HOLE

TOOLS AT FLOOR

TOOLS LAID OUT

## TEST PERIOD SUMMARY

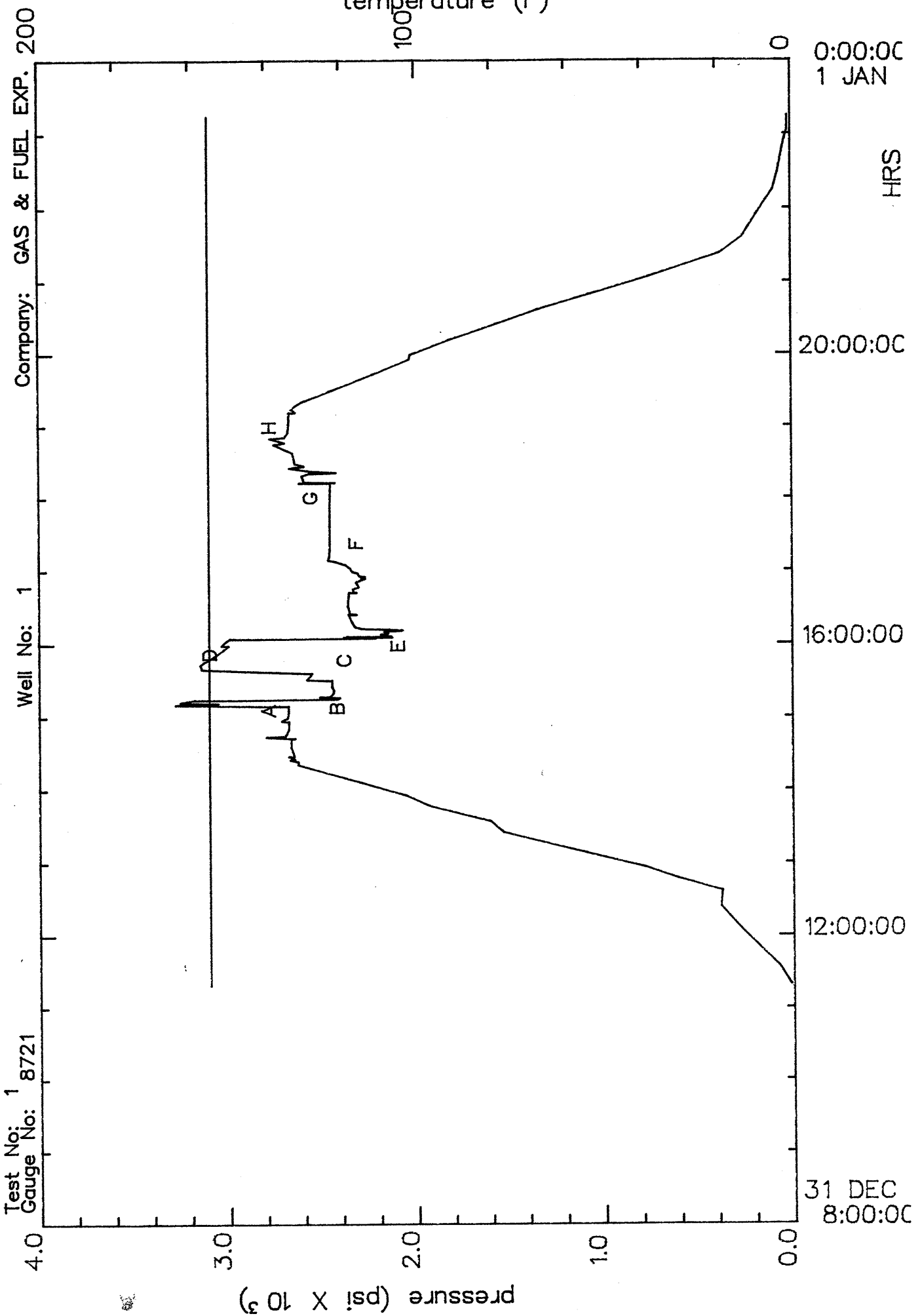
Gauge No.: 8721 Depth: 5486.00 ft Blanked off : Yes  
Clock no.: 30347 Hour: 24

ID	PERIOD	DESCRIPTION	PRESSURE (psi)	DURATION (min)
A		Initial Hydrostatic	2676.73	
B	1	Start Draw-down	2441.54	
C		End Draw-down	2447.75	15.24
C	2	Start Build-up	2447.75	
D		End Build-up	2988.22	34.29
E	3	Start Draw-down	2117.95	
F		End Draw-down	2382.54	60.09
F	4	Start Build-up	2382.54	
G		End Build-up	2449.55	65.58
H		Final Hydrostatic	2668.40	

NOTE: for Pressure vs. Time Plot, see next page.

temperature (F)

Pressure/Temperature History





Date: 31/12/91

Ticket No: 001130

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PRESSURE VS TIME

MECHANICAL gauge no.: 8721  
Clock no.: 30347

Gauge Depth: 5486.00 ft

Hour: 24

TIME HH:MM:SS	D TIME (min)	PRESSURE (psi)	TEMP (F)	COMMENTS
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31-Dec-91

Data Print Frequency: 1

09:45:00				SURFACE PRESSURE = PSIG
09:45:00				PICK UP TEST TOOLS
10:00:00				MAKE UP TEST TOOLS
10:00:00				WAIT ON TEST INTERVAL
10:00:00				CONFIRMATION
11:10:00				MAKE UP TAIL PIPE
11:18:49		14.465	155.0	
11:25:00				RUN IN HOLE
11:34:27		78.705	155.0	
12:02:39		261.664	155.0	
12:24:00				MAKE UP TEST HEAD
12:24:04		387.262	155.0	
12:36:54		374.747	155.0	
12:46:57		612.177	155.0	
12:56:15		784.888	155.0	
13:08:08		1092.198	155.0	
13:25:07		1537.923	155.0	
13:34:10		1606.167	155.0	
13:46:55		1934.131	155.0	
13:55:16		2052.423	155.0	
14:06:00		2293.465	155.0	
14:20:51		2631.299	155.0	
14:21:29		2628.847	155.0	
14:23:24		2627.213	155.0	
14:24:43		2672.159	155.0	
14:25:21		2643.557	155.0	
14:26:49		2646.172	155.0	
14:27:36		2679.023	155.0	
14:27:45		2646.826	155.0	
14:28:07		2665.621	155.0	
14:35:13		2666.929	155.0	
14:40:00				RIG UP SURFACE EQUIPMENT
14:42:02		2666.765	155.0	
14:42:31		2641.105	155.0	
14:44:01		2799.475	155.0	
14:44:42		2693.079	155.0	
14:45:00				TAG BOTTOM, 7ft OF FILL
14:46:34		2681.148	155.0	
14:48:00				PRES.TEST SURF.EQUIPMENT
14:49:41		2675.755	155.0	
14:56:31		2674.284	155.0	
14:57:02		2716.451	155.0	
14:58:05		2704.847	155.0	
14:59:13		2682.292	155.0	
15:03:49		2676.735	155.0	
15:05:51		2676.735	155.0	

## PRESSURE VS TIME

MECHANICAL gauge no.: 8721  
Clock no.: 30347

Gauge Depth: 5486.00 ft

Hour: 24

TIME HH:MM:SS	D TIME (min)	PRESSURE (psi)	TEMP (F)	COMMENTS
-----				
31-Dec-91		Data Print Frequency:	1	
15:09:00		2676.735	155.0	
15:10:00				SET PACKERS-34000lb
15:10:25		3276.409	155.0	
15:10:55		3214.992	155.0	
15:11:31		3048.026	155.0	
15:12:00				TOOL OPEN, STRING SKIDDING,
15:12:00				TOOL CLOSED, RESET PACKERS
15:12:18		3252.562	155.0	
15:12:45		3247.988	155.0	
15:14:19		3179.707	155.0	
15:15:00				TOOL OPEN, CHOKES CLOSED,
15:15:00				FEW BUBBLES
		*** Start of Period 1 ***		
15:15:00	0.0000	2441.541	155.0	
15:15:07	0.0020	2411.794	155.0	
15:15:31	0.0085	2486.651	155.0	
15:16:03	0.0175	2402.478	155.0	
15:16:39	0.0275	2512.312	155.0	
15:16:50	0.0305	2454.289	155.0	
15:17:28	0.0410	2443.502	155.0	
15:18:07	0.0520	2439.906	155.0	
15:18:52	0.0645	2442.848	155.0	
15:19:28	0.0745	2437.455	155.0	
15:20:19	0.0885	2436.964	155.0	
15:20:40	0.0945	2421.110	155.0	
15:21:00	0.1000	2430.917	155.0	
15:22:01	0.1170	2434.186	155.0	
15:23:01	0.1335	2436.311	155.0	
15:24:00	0.1500	2444.156	155.0	
15:25:01	0.1670	2446.117	155.0	
15:26:01	0.1835	2446.607	155.0	
15:27:02	0.2005	2446.771	155.0	
15:28:01	0.2170	2447.098	155.0	
15:29:01	0.2335	2447.261	155.0	
15:30:00				CLOSE TOOL
15:30:00	0.2500	2447.588	155.0	
15:30:15	0.2540	2447.752	155.0	
		*** End of Period 1 ***		
		*** Start of Period 2 ***		
15:31:00	0.0125	2581.776	155.0	
15:31:23	0.0190	2584.227	155.0	
15:31:30	0.0210	2570.498	155.0	
15:32:15	0.0335	2568.537	155.0	
15:33:15	0.0500	2564.941	155.0	
15:34:16	0.0670	2559.874	155.0	
15:35:15	0.0835	2554.153	155.0	

Date: 31/12/91

Ticket No: 001130

Page No: 3.1.3

PRESSURE VS TIME

MECHANICAL gauge no.: 8721  
Clock no.: 30347

Gauge Depth: 5486.00 ft

Hour: 24

TIME HH:MM:SS	D TIME (min)	PRESSURE (psi)	TEMP (F)	COMMENTS
-----				
31-Dec-91		Data Print Frequency: 1		
15:36:15	0.1000	2549.577	155.0	
15:36:54	0.1110	2547.616	155.0	
15:39:43	0.1580	3138.866	155.0	
15:41:24	0.1860	3146.217	155.0	
15:43:16	0.2170	3145.890	155.0	
15:44:21	0.2350	3142.623	155.0	
15:45:15	0.2500	3125.796	155.0	
15:50:15	0.3335	3069.103	155.0	
15:55:16	0.4170	3024.987	155.0	
15:58:50	0.4765	2994.595	155.0	
15:59:10	0.4820	3034.627	155.0	
15:59:46	0.4920	3036.098	155.0	
16:00:00				ROTATE STRING 6 TURNS-5min.
16:00:15	0.5000	3034.464	155.0	
16:02:15	0.5335	3009.301	155.0	
16:04:32	0.5715	2988.222	155.0	
		*** End of Period 2 ***		
16:04:55		2210.117	155.0	
16:05:00				CONTINUE 8 TURNS
16:05:30		2385.153	155.0	
16:05:39		2121.544	155.0	
16:06:09		2370.280	155.0	
16:06:15		2126.120	155.0	
		*** Start of Period 3 ***		
16:06:40	0.0000	2117.949	155.0	
16:07:00				TOOL OPEN, OPEN CHOKE
16:07:00				STRONG BLOW
16:07:41	0.0170	2189.035	155.0	
16:08:00				OPEN 32/64" CHOKE, CLOSE
16:08:00				16/64" CHOKE
16:08:00				STRONG BLOW - CO2 TO SURF.
16:08:40	0.0335	2143.441	155.0	
16:09:47	0.0520	2133.146	155.0	
16:10:00				
16:10:14	0.0595	2171.059	155.0	
16:11:03	0.0730	2174.491	155.0	
16:11:24	0.0790	2066.476	155.0	
16:11:58	0.0885	2142.461	155.0	
16:12:47	0.1020	2295.263	155.0	
16:13:18	0.1105	2292.321	155.0	
16:14:04	0.1235	2325.008	155.0	
16:15:00				CLOSE MANIFOLD, REOPEN MAN.
16:15:56	0.1545	2328.767	155.0	
16:17:55	0.1875	2340.698	155.0	
16:19:03	0.2065	2348.870	155.0	
16:20:00				75F CHICKSAN TEMP, SAMPLE#1

PRESSURE VS TIME

MECHANICAL gauge no.: 8721  
Clock no.: 30347

Gauge Depth: 5486.00 ft

Hour: 24

TIME HH:MM:SS	D TIME (min)	PRESSURE (psi)	TEMP (F)	COMMENTS
31-Dec-91		Data Print Frequency: 1		
16:24:07	0.2910	2359.167	155.0	
16:24:20	0.2945	2312.097	155.0	
16:24:45	0.3015	2351.322	155.0	
16:25:00				75F SURF LINE TEMP
16:26:42	0.3340	2357.696	155.0	
16:30:00				75F TEMP
16:30:47	0.4020	2361.291	155.0	
16:33:04	0.4400	2361.455	155.0	
16:33:31	0.4475	2358.186	155.0	
16:34:59	0.4720	2354.917	155.0	
16:35:00				77F TEMP
16:39:04	0.5400	2354.590	155.0	
16:40:00				78F TEMP
16:40:00				ICE BUILDING ON CHICKSANS
16:40:00				AND END OF FLARE LINE WITH
16:40:00				DRY GAS AND AN INTERMITENT
16:40:00				PUFF OF WHITE SMOKE
16:42:06	0.5905	2352.629	155.0	
16:42:11	0.5920	2312.260	155.0	
16:42:40	0.6000	2333.343	155.0	
16:44:57	0.6380	2335.141	155.0	
16:45:00				78F TEMP
16:46:19	0.6610	2331.546	155.0	
16:46:34	0.6650	2301.637	155.0	
16:47:51	0.6865	2302.944	155.0	
16:48:33	0.6980	2314.385	155.0	
16:50:00				78f TEMP, SAMPLE#2
16:50:26	0.7295	2317.654	155.0	
16:50:40	0.7335	2300.003	155.0	
16:51:42	0.7505	2296.407	155.0	
16:52:59	0.7720	2304.906	155.0	
16:53:28	0.7800	2266.499	155.0	
16:53:55	0.7875	2291.831	155.0	
16:54:36	0.7990	2302.291	155.0	
16:54:58	0.8050	2267.643	155.0	
16:55:00				78F TEMP
16:55:34	0.8150	2300.493	155.0	
16:56:10	0.8250	2295.427	155.0	
16:56:37	0.8325	2307.030	155.0	
16:57:56	0.8545	2311.606	155.0	
16:58:37	0.8660	2324.845	155.0	
16:59:03	0.8730	2337.756	155.0	
17:00:00				
17:00:22	0.8950	2347.399	155.0	
17:01:54	0.9205	2350.668	155.0	
17:03:07	0.9410	2360.801	155.0	

## PRESSURE VS TIME

MECHANICAL gauge no.: 8721  
Clock no.: 30347

Gauge Depth: 5486.00 ft

Hour: 24

TIME HH:MM:SS	D TIME (min)	PRESSURE (psi)	TEMP (F)	COMMENTS
-----				
31-Dec-91		Data Print Frequency: 1		
17:04:46	0.9685	2374.040	155.0	
17:05:00				80F TEMP - CLOSE TOOL
17:06:45	1.0015	2382.538	155.0	
		*** End of Period 3 ***		
		*** Start of Period 4 ***		
17:07:12	0.0075	2425.687	155.0	
17:08:17	0.0255	2434.513	155.0	
17:08:30	0.0290	2465.403	155.0	
17:08:53	0.0355	2464.096	155.0	
17:10:05	0.0555	2460.990	155.0	
17:11:46	0.0835	2456.741	155.0	
17:16:46	0.1670	2453.636	155.0	
17:21:45	0.2500	2453.472	155.0	
17:36:45	0.5000	2452.818	155.0	
17:51:45	0.7500	2452.491	155.0	
18:01:37	0.9145	2450.530	155.0	
18:05:57	0.9865	2449.876	155.0	
18:11:00				OPEN BYPASS, PULL FREE
18:12:20	1.0930	2449.549	155.0	
		*** End of Period 4 ***		
18:12:27		2620.348	155.0	
18:12:45		2423.072	155.0	
18:13:16		2593.707	155.0	
18:14:08		2585.698	155.0	
18:15:34		2596.976	155.0	
18:18:15		2604.331	155.0	
18:20:00				DROP BAR
18:20:21		2562.653	155.0	
18:21:00				PIN SHEARED, START PUMPING
18:21:07		2418.495	155.0	
18:22:32		2567.883	155.0	
18:23:51		2581.449	155.0	
18:24:09		2553.827	155.0	
18:24:49		2671.178	155.0	
18:25:41		2630.808	155.0	
18:26:24		2588.967	155.0	
18:28:34		2640.615	155.0	
18:35:00				CLOSE HYDRIL
18:37:00				REVERSE CIRCULATE.
18:37:39		2654.017	155.0	
18:39:31		2679.514	155.0	
18:41:40		2687.032	155.0	
18:44:39		2752.570	155.0	
18:46:09		2692.589	155.0	
18:49:55		2773.817	155.0	
18:51:02		2690.628	155.0	

Date: 31/12/91

Ticket No: 001130

Page No: 3.1.6

PRESSURE VS TIME

MECHANICAL gauge no.: 8721  
Clock no.: 30347

Gauge Depth: 5486.00 ft

Hour: 24

TIME HH:MM:SS	D TIME (min)	PRESSURE (psi)	TEMP (F)	COMMENTS
-----				
31-Dec-91				
				Data Print Frequency: 1
18:54:42		2674.284	155.0	
19:00:00				RIG DOWN SURFACE EQUIPMENT
19:01:19		2668.890	155.0	
19:01:39		2668.400	155.0	
19:07:32		2668.400	155.0	
19:10:00				PULL OUT OF HOLE
19:11:21		2668.400	155.0	
19:11:30		2633.260	155.0	
19:14:06		2657.449	155.0	
19:16:19		2639.798	155.0	
19:20:06		2599.754	155.0	
19:28:54		2452.491	155.0	
19:43:05		2221.066	155.0	
19:55:28		2025.953	155.0	
19:59:19		2019.581	155.0	
20:11:22		1813.409	155.0	
20:24:20		1568.942	155.0	
20:36:33		1340.766	155.0	
20:49:01		1069.047	155.0	
21:03:38		750.042	155.0	
21:22:48		375.397	155.0	
21:36:20		254.680	155.0	
21:44:53		219.600	155.0	
21:54:27		180.956	155.0	
22:05:37		133.394	155.0	
22:14:35		92.010	155.0	
22:29:30		64.752	155.0	
22:30:00				TOOLS AT FLOOR
22:45:00		45.446	155.0	
22:55:36		29.387	155.0	
23:03:25		14.627	155.0	
23:14:31		14.465	155.0	
23:16:43		14.465	155.0	
23:40:00				TOOLS LAID OUT

Date: 31/12/91

Ticket No: 001130

Page No: 3.2

TEST PERIOD SUMMARY

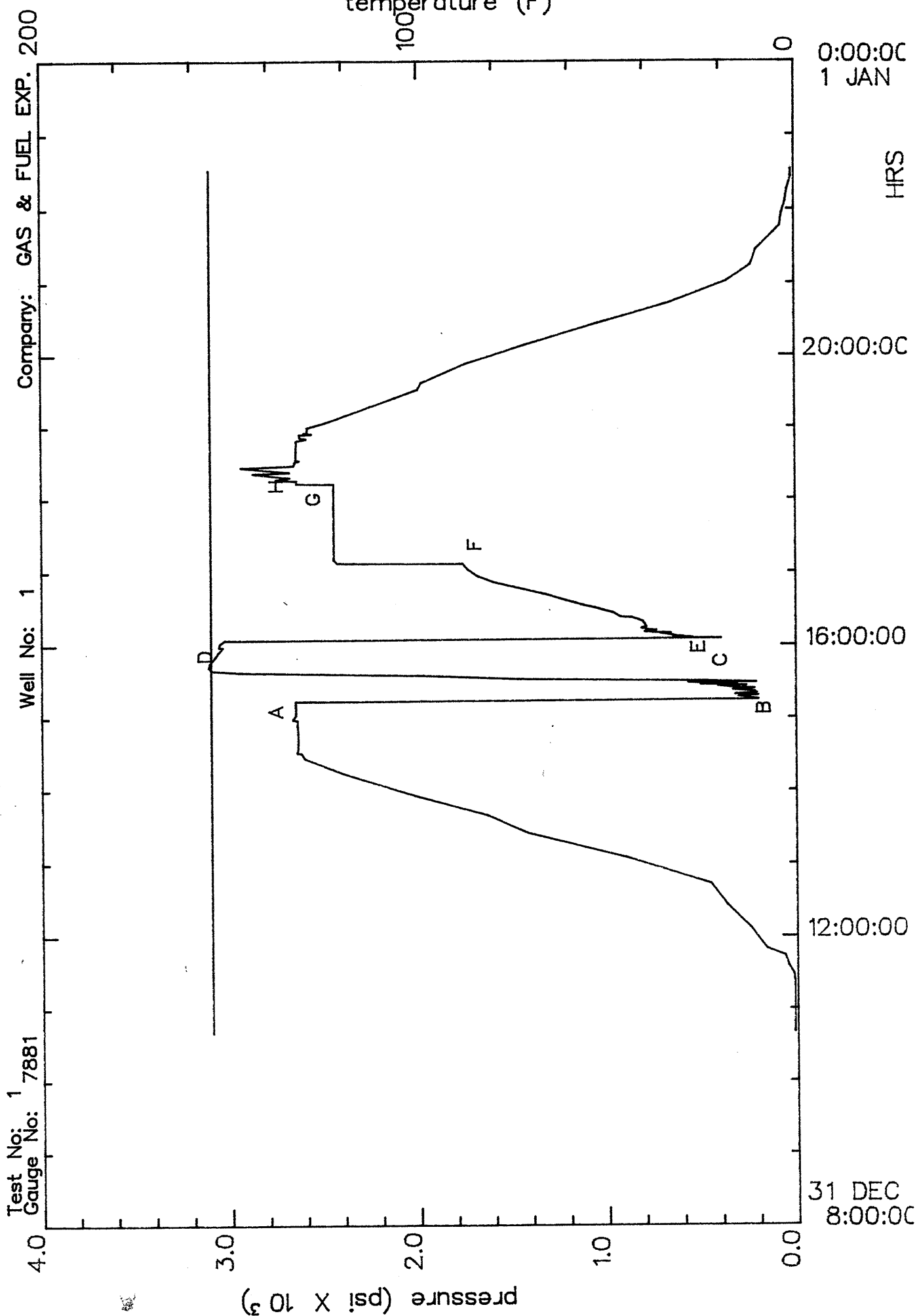
Gauge No.: 7881    Depth: 5430.24 ft    Blanked off : No  
Clock no.: 12249                      Hour: 24

ID	PERIOD	DESCRIPTION	PRESSURE (psi)	DURATION (min)
A		Initial Hydrostatic	2650.73	
B	1	Start Draw-down	196.06	
C		End Draw-down	470.01	15.24
C	2	Start Build-up	470.01	
D		End Build-up	3023.59	34.29
E	3	Start Draw-down	540.91	
F		End Draw-down	1765.10	60.72
F	4	Start Build-up	1765.10	
G		End Build-up	2448.82	65.58
H		Final Hydrostatic	2645.98	

NOTE: for Pressure vs. Time Plot, see next page.

temperature (F)

Pressure/Temperature History





## PRESSURE VS TIME

MECHANICAL gauge no.: 7881  
Clock no.: 12249

Gauge Depth: 5430.24 ft

Hour: 24

TIME HH:MM:SS	D TIME (min)	PRESSURE (psi)	TEMP (F)	COMMENTS
-----				
31-Dec-91				Data Print Frequency: 1
09:45:00				SURFACE PRESSURE = PSIG
09:45:00				PICK UP TEST TOOLS
10:00:00				MAKE UP TEST TOOLS
10:00:00				WAIT ON TEST INTERVAL
10:00:00				CONFIRMATION
10:40:02		14.413	155.0	
11:10:00				MAKE UP TAIL PIPE
11:23:24		14.413	155.0	
11:25:00				RUN IN HOLE
11:28:40		21.808	155.0	
11:34:59		45.925	155.0	
11:43:53		67.152	155.0	
11:49:43		164.019	155.0	
12:06:46		246.154	155.0	
12:24:00				MAKE UP TEST HEAD
12:25:36		370.765	155.0	
12:43:23		457.902	155.0	
13:04:43		893.936	155.0	
13:25:19		1424.214	155.0	
13:39:46		1636.177	155.0	
13:55:07		2003.811	155.0	
14:14:20		2405.123	155.0	
14:26:37		2607.975	155.0	
14:30:43		2624.355	155.0	
14:31:12		2646.963	155.0	
14:31:25		2637.133	155.0	
14:34:36		2640.246	155.0	
14:40:00				RIG UP SURFACE EQUIPMENT
14:45:00				TAG BOTTOM, 7ft OF FILL
14:47:04		2640.573	155.0	
14:47:31		2647.290	155.0	
14:47:39		2641.556	155.0	
14:48:00				PRES.TEST SURF.EQUIPMENT
14:48:23		2644.178	155.0	
14:53:31		2645.652	155.0	
14:58:08		2645.816	155.0	
14:58:22		2641.393	155.0	
14:58:46		2669.736	155.0	
14:59:15		2655.482	155.0	
15:00:58		2651.878	155.0	
15:02:13		2650.731	155.0	
15:04:11		2650.731	155.0	
15:09:04		2650.731	155.0	
15:09:42		2657.284	155.0	
15:10:00				SET PACKERS-34000lb
15:10:25		2656.465	155.0	

## PRESSURE VS TIME

MECHANICAL gauge no.: 7881  
Clock no.: 12249

Gauge Depth: 5430.24 ft

Hour: 24

TIME HH:MM:SS	D TIME (min)	PRESSURE (psi)	TEMP (F)	COMMENTS
-----				
31-Dec-91		Data Print Frequency:	1	
15:11:21		2653.025	155.0	
15:11:45		2661.216	155.0	
15:12:00				TOOL OPEN, STRING SKIDDING,
15:12:00				TOOL CLOSED, RESET PACKERS
15:13:52		2651.386	155.0	
15:15:00				TOOL OPEN, CHOKES CLOSED,
15:15:00				FEW BUBBLES
		*** Start of Period 1 ***		
15:15:00	0.0000	196.060	155.0	
15:17:17	0.0382	306.910	155.0	
15:18:24	0.0568	197.187	155.0	
15:19:15	0.0709	324.966	155.0	
15:20:18	0.0885	203.307	155.0	
15:21:04	0.1011	242.448	155.0	
15:21:34	0.1097	215.386	155.0	
15:22:56	0.1323	337.059	155.0	
15:23:18	0.1383	272.901	155.0	
15:24:05	0.1514	217.802	155.0	
15:25:06	0.1685	350.927	155.0	
15:26:15	0.1876	415.777	155.0	
15:26:30	0.1916	261.621	155.0	
15:27:28	0.2077	506.663	155.0	
15:28:02	0.2173	309.167	155.0	
15:28:56	0.2324	571.281	155.0	
15:29:16	0.2379	207.172	155.0	
15:30:00				CLOSE TOOL
15:30:14	0.2540	470.009	155.0	
		*** End of Period 1 ***		
		*** Start of Period 2 ***		
15:32:15	0.0336	1454.150	155.0	
15:35:15	0.0836	1977.035	155.0	
15:38:16	0.1337	2942.047	155.0	
15:39:53	0.1608	3097.928	155.0	
15:42:12	0.1993	3111.716	155.0	
15:43:56	0.2284	3110.403	155.0	
15:45:14	0.2499	3103.837	155.0	
15:50:15	0.3336	3076.920	155.0	
15:55:14	0.4167	3053.123	155.0	
15:58:42	0.4743	3033.924	155.0	
15:59:02	0.4798	3057.883	155.0	
16:00:00				ROTATE STRING 6 TURNS-5min.
16:00:23	0.5024	3057.883	155.0	
16:01:58	0.5289	3048.200	155.0	
16:04:31	0.5715	3023.586	155.0	
16:05:00				CONTINUE 8 TURNS
		*** End of Period 2 ***		

## PRESSURE VS TIME

MECHANICAL gauge no.: 7881  
Clock no.: 12249

Gauge Depth: 5430.24 ft

Hour: 24

TIME HH:MM:SS	D TIME (min)	PRESSURE (psi)	TEMP (F)	COMMENTS
-----				
31-Dec-91		Data Print Frequency:	1	
16:05:31		392.704	155.0	
16:05:56		650.972	155.0	
		*** Start of Period 3 ***		
16:06:05	0.0000	540.906	155.0	
16:06:43	0.0105	540.906	155.0	
16:07:00				TOOL OPEN, OPEN CHOKE
16:07:00				STRONG BLOW
16:07:49	0.0289	649.517	155.0	
16:08:00				OPEN 32/64" CHOKE, CLOSE
16:08:00				16/64" CHOKE
16:08:00				STRONG BLOW - C02 TO SURF.
16:08:39	0.0426	655.339	155.0	
16:09:14	0.0523	647.738	155.0	
16:09:30	0.0569	714.539	155.0	
16:09:45	0.0610	656.309	155.0	
16:10:00				
16:10:23	0.0717	751.594	155.0	
16:10:54	0.0803	796.757	155.0	
16:12:08	0.1007	732.337	155.0	
16:12:37	0.1089	777.330	155.0	
16:13:52	0.1298	814.405	155.0	
16:14:49	0.1456	784.615	155.0	
16:15:00				CLOSE MANIFOLD, REOPEN MAN.
16:17:05	0.1833	796.918	155.0	
16:17:56	0.1976	795.138	155.0	
16:19:25	0.2220	807.928	155.0	
16:20:00				75F CHICKSAN TEMP, SAMPLE#1
16:20:43	0.2439	828.655	155.0	
16:22:45	0.2776	869.148	155.0	
16:23:23	0.2883	927.968	155.0	
16:24:29	0.3066	922.781	155.0	
16:24:44	0.3107	925.212	155.0	
16:25:00				75F SURF LINE TEMP
16:26:43	0.3438	966.872	155.0	
16:28:44	0.3775	1016.492	155.0	
16:30:00				75F TEMP
16:30:43	0.4106	1061.751	155.0	
16:32:45	0.4442	1120.984	155.0	
16:34:44	0.4774	1164.493	155.0	
16:35:00				77F TEMP
16:36:43	0.5105	1212.564	155.0	
16:40:00				78F TEMP
16:40:00				ICE BUILDING ON CHICKSANS
16:40:00				AND END OF FLARE LINE WITH
16:40:00				DRY GAS AND AN INTERMITTENT
16:40:00				PUFF OF WHITE SMOKE

Date: 31/12/91

Ticket No: 001130

Page No: 3.2.4

PRESSURE VS TIME

MECHANICAL gauge no.: 7881  
Clock no.: 12249

Gauge Depth: 5430.24 ft

Hour: 24

TIME HH:MM:SS	D TIME (min)	PRESSURE (psi)	TEMP (F)	COMMENTS
-----				
31-Dec-91		Data Print Frequency: 1		
16:41:44	0.5941	1321.437	155.0	
16:45:00				78F TEMP
16:46:43	0.6772	1458.543	155.0	
16:50:00				78f TEMP, SAMPLE#2
16:51:44	0.7608	1600.503	155.0	
16:55:00				78F TEMP
16:56:43	0.8438	1684.733	155.0	
17:00:00				
17:01:44	0.9274	1735.261	155.0	
17:05:00				80F TEMP - CLOSE TOOL
17:06:43	1.0105	1764.933	155.0	
17:06:48	1.0120	1765.096	155.0	
		*** End of Period 3 ***		
		*** Start of Period 4 ***		
17:07:27	0.0107	2431.307	155.0	
17:07:49	0.0168	2434.417	155.0	
17:08:49	0.0336	2438.672	155.0	
17:10:15	0.0575	2450.621	155.0	
17:10:27	0.0606	2458.641	155.0	
17:10:54	0.0682	2452.748	155.0	
17:11:49	0.0835	2449.966	155.0	
17:16:49	0.1669	2445.874	155.0	
17:26:48	0.3333	2448.165	155.0	
17:36:49	0.5002	2448.656	155.0	
17:51:49	0.7500	2449.147	155.0	
18:06:50	1.0004	2448.656	155.0	
18:11:00				OPEN BYPASS, PULL FREE
18:12:23	1.0930	2448.820	155.0	
		*** End of Period 4 ***		
18:12:53		2648.601	155.0	
18:13:09		2642.703	155.0	
18:13:33		2645.816	155.0	
18:13:42		2645.980	155.0	
18:14:19		2645.980	155.0	
18:15:07		2645.980	155.0	
18:16:07		2756.100	155.0	
18:17:54		2676.946	155.0	
18:20:00				DROP BAR
18:21:00				PIN SHEARED, START PUMPING
18:21:15		2876.441	155.0	
18:22:21		2678.584	155.0	
18:23:55		2660.233	155.0	
18:26:27		2938.766	155.0	
18:27:57		2655.974	155.0	
18:31:06		2650.076	155.0	
18:31:52		2626.976	155.0	

Date: 31/12/91

Ticket No: 001130

Page No: 3.2.5

PRESSURE VS TIME

MECHANICAL gauge no.: 7881  
Clock no.: 12249

Gauge Depth: 5430.24 ft

Hour: 24

TIME HH:MM:SS	D TIME (min)	PRESSURE (psi)	TEMP (F)	COMMENTS
------------------	-----------------	-------------------	-------------	----------

31-Dec-91

Data Print Frequency: 1

18:32:39 2648.929 155.0

18:33:25 2645.488 155.0

18:35:00

18:37:00

CLOSE HYDRIL  
REVERSE CIRCULATE.

18:48:33

2642.703 155.0

18:49:46

2639.427 155.0

18:50:10

2590.121 155.0

18:51:10

2626.485 155.0

18:53:54

2629.270 155.0

18:54:27

2560.805 155.0

18:55:05

2606.500 155.0

18:55:31

2584.061 155.0

18:59:33

2582.751 155.0

19:00:00

RIG DOWN SURFACE EQUIPMENT

19:03:40

2488.597 155.0

19:10:00

PULL OUT OF HOLE

19:24:24

2117.332 155.0

19:31:18

1995.158 155.0

19:36:57

1975.402 155.0

19:52:49

1743.412 155.0

20:08:30

1426.003 155.0

20:26:33

1036.280 155.0

20:43:05

658.896 155.0

21:01:00

358.346 155.0

21:14:28

228.111 155.0

21:27:02

198.798 155.0

21:41:20

105.599 155.0

21:46:26

72.943 155.0

21:56:13

63.453 155.0

22:05:29

45.121 155.0

22:15:30

34.991 155.0

22:16:03

19.236 155.0

22:25:52

14.413 155.0

22:30:00

TOOLS AT FLOOR

22:31:55

14.413 155.0

23:40:00

TOOLS LAID OUT

Date: 31/12/91

Ticket No: 001130

Page No: 3.3

### TEST PERIOD SUMMARY

Gauge No.: 8722    Depth: 5409.92 ft    Blanked off : No  
Clock no.: 23523                              Hour: 24

ID	PERIOD	DESCRIPTION	PRESSURE (psi)	DURATION (min)
A	1	Start Draw-down	14.66	
B		End Draw-down	87.98	15.24
B	2	Start Build-up	87.98	
C		End Build-up	67.75	36.43
C	3	Start Draw-down	67.75	
D		End Draw-down	1759.28	60.09
D	4	Start Build-up	1759.28	
E		End Build-up	1076.39	60.98

NOTE: for Pressure vs. Time Plot, see next page.

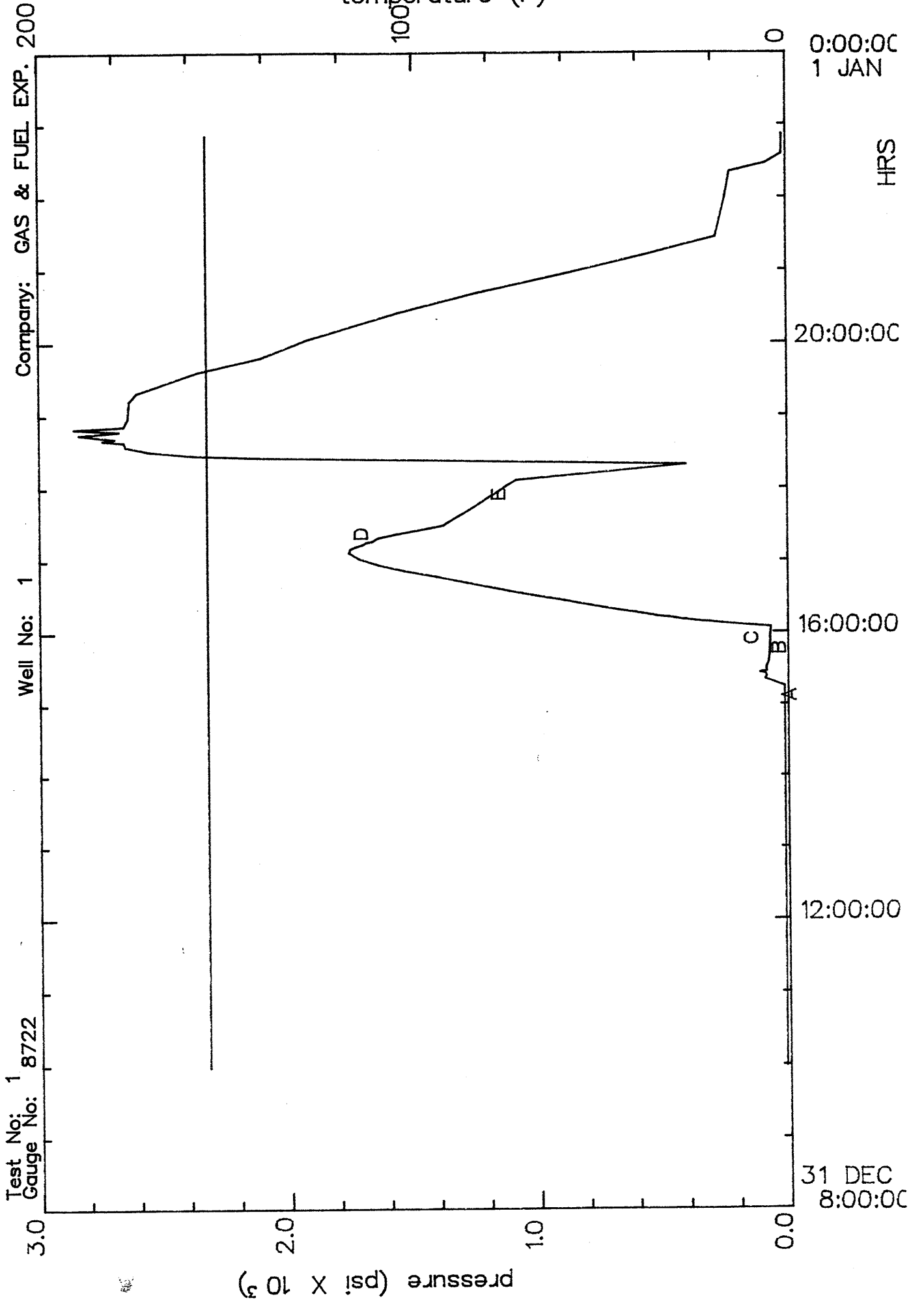
Date: 31/12/91

Ticket No: 001130

Page No: 3.3.0

temperature (F)

Pressure/Temperature History



## PRESSURE VS TIME

MECHANICAL gauge no.: 8722  
Clock no.: 23523

Gauge Depth: 5409.92 ft

Hour: 24

TIME HH:MM:SS	D TIME (min)	PRESSURE (psi)	TEMP (F)	COMMENTS
-----				
31-Dec-91				Data Print Frequency: 1
09:45:00				SURFACE PRESSURE = PSIG
09:45:00				PICK UP TEST TOOLS
09:58:31		14.657	155.0	
10:00:00				MAKE UP TEST TOOLS
10:00:00				WAIT ON TEST INTERVAL
10:00:00				CONFIRMATION
10:43:30		14.657	155.0	
11:10:00				MAKE UP TAIL PIPE
11:25:00				RUN IN HOLE
11:43:31		14.657	155.0	
12:24:00				MAKE UP TEST HEAD
12:43:31		14.657	155.0	
13:43:31		14.657	155.0	
14:40:00				RIG UP SURFACE EQUIPMENT
14:43:31		14.657	155.0	
14:45:00				TAG BOTTOM, 7ft OF FILL
14:48:00				PRES.TEST SURF.EQUIPMENT
15:10:00				SET PACKERS-34000lb
15:12:00				TOOL OPEN, STRING SKIDDING,
15:12:00				TOOL CLOSED, RESET PACKERS
15:15:00				TOOL OPEN, CHOKES CLOSED,
15:15:00				FEW BUBBLES
				*** Start of Period 1 ***
15:15:00	0.0000	14.657	155.0	
15:20:48	0.0967	93.640	155.0	
15:21:35	0.1097	89.108	155.0	
15:22:10	0.1192	97.685	155.0	
15:23:11	0.1363	84.901	155.0	
15:23:33	0.1423	97.362	155.0	
15:25:03	0.1673	84.577	155.0	
15:25:28	0.1743	93.154	155.0	
15:25:51	0.1809	86.357	155.0	
15:26:18	0.1884	113.059	155.0	
15:27:23	0.2064	83.930	155.0	
15:28:19	0.2219	79.236	155.0	
15:28:50	0.2305	96.391	155.0	
15:29:08	0.2355	88.137	155.0	
15:30:00				CLOSE TOOL
15:30:15	0.2540	87.976	155.0	
				*** End of Period 1 ***
				*** Start of Period 2 ***
15:31:16	0.0170	78.751	155.0	
15:35:16	0.0837	75.838	155.0	
15:40:16	0.1669	73.248	155.0	
15:50:15	0.3334	70.012	155.0	
15:55:27	0.4201	69.364	155.0	



## PRESSURE VS TIME

MECHANICAL gauge no.: 8722  
Clock no.: 23523

Gauge Depth: 5409.92 ft

Hour: 24

TIME HH:MM:SS	D TIME (min)	PRESSURE (psi)	TEMP (F)	COMMENTS
-----				
31-Dec-91		Data Print Frequency: 1		
15:56:30	0.4377	70.335	155.0	
15:57:23	0.4522	68.070	155.0	
15:58:01	0.4627	69.364	155.0	
15:58:46	0.4752	67.260	155.0	
15:59:27	0.4868	65.480	155.0	
16:00:00				ROTATE STRING 6 TURNS-5min.
16:01:28	0.5204	67.746	155.0	
16:04:32	0.5715	67.746	155.0	
16:05:00				CONTINUE 8 TURNS
16:06:40	0.6071	67.746	155.0	
16:07:00				TOOL OPEN, OPEN CHOKE
16:07:00				STRONG BLOW
		*** End of Period 2 ***		
		*** Start of Period 3 ***		
16:07:41	0.0170	264.813	155.0	
16:08:00				OPEN 32/64" CHOKE, CLOSE
16:08:00				16/64" CHOKE
16:08:00				STRONG BLOW - C02 TO SURF.
16:08:41	0.0335	307.673	155.0	
16:09:40	0.0500	372.682	155.0	
16:10:00				
16:10:41	0.0670	409.871	155.0	
16:11:41	0.0835	447.218	155.0	
16:12:40	0.1000	479.065	155.0	
16:13:41	0.1169	523.032	155.0	
16:14:41	0.1334	550.993	155.0	
16:15:00				CLOSE MANIFOLD, REOPEN MAN.
16:15:40	0.1499	580.245	155.0	
16:16:41	0.1669	609.010	155.0	
16:18:42	0.2004	675.905	155.0	
16:20:00				75F CHICKSAN TEMP, SAMPLE#1
16:20:40	0.2334	732.611	155.0	
16:22:41	0.2669	788.016	155.0	
16:24:42	0.3003	845.675	155.0	
16:25:00				75F SURF LINE TEMP
16:26:40	0.3333	895.090	155.0	
16:28:41	0.3668	951.603	155.0	
16:30:00				75F TEMP
16:30:41	0.4003	1009.885	155.0	
16:32:40	0.4333	1062.670	155.0	
16:34:41	0.4668	1115.933	155.0	
16:35:00				77F TEMP
16:36:41	0.5003	1164.832	155.0	
16:40:00				78F TEMP
16:40:00				ICE BUILDING ON CHICKSANS
16:40:00				AND END OF FLARE LINE WITH

## PRESSURE VS TIME

MECHANICAL gauge no.: 8722  
Clock no.: 23523

Gauge Depth: 5409.92 ft

Hour: 24

TIME HH:MM:SS	D TIME (min)	PRESSURE (psi)	TEMP (F)	COMMENTS
-----				
31-Dec-91				Data Print Frequency: 1
16:40:00				DRY GAS AND AN INTERMITENT
16:40:00				PUFF OF WHITE SMOKE
16:41:42	0.5837	1286.169	155.0	
16:45:00				78F TEMP
16:46:40	0.6667	1408.280	155.0	
16:50:00				78f TEMP, SAMPLE#2
16:51:41	0.7501	1538.099	155.0	
16:55:00				78F TEMP
16:56:41	0.8336	1643.381	155.0	
17:00:00				
17:01:42	0.9170	1717.533	155.0	
17:05:00				80F TEMP - CLOSE TOOL
17:06:40	1.0000	1758.957	155.0	
17:06:46	1.0015	1759.279	155.0	
				*** End of Period 3 ***
				*** Start of Period 4 ***
17:07:47	0.0170	1756.055	155.0	
17:08:46	0.0335	1753.154	155.0	
17:09:46	0.0500	1751.381	155.0	
17:11:08	0.0730	1749.125	155.0	
17:11:46	0.0835	1728.655	155.0	
17:12:31	0.0960	1720.918	155.0	
17:13:16	0.1085	1703.671	155.0	
17:15:11	0.1405	1686.906	155.0	
17:16:04	0.1550	1663.693	155.0	
17:18:49	0.2010	1640.963	155.0	
17:21:46	0.2500	1575.184	155.0	
17:26:46	0.3335	1440.537	155.0	
17:29:08	0.3729	1377.796	155.0	
17:31:47	0.4169	1357.472	155.0	
17:36:45	0.4999	1316.659	155.0	
17:41:46	0.5834	1274.392	155.0	
17:46:46	0.6669	1235.347	155.0	
17:51:47	0.7504	1198.881	155.0	
17:56:46	0.8334	1159.184	155.0	
18:01:46	0.9168	1122.550	155.0	
18:06:47	1.0003	1082.039	155.0	
18:07:45	1.0163	1076.390	155.0	
18:11:00				OPEN BYPASS, PULL FREE
				*** End of Period 4 ***
18:19:16		400.170	155.0	
18:19:53		392.571	155.0	
18:20:00				DROP BAR
18:21:00				PIN SHEARED, START PUMPING
18:21:23		386.588	155.0	
18:25:43		2117.133	155.0	

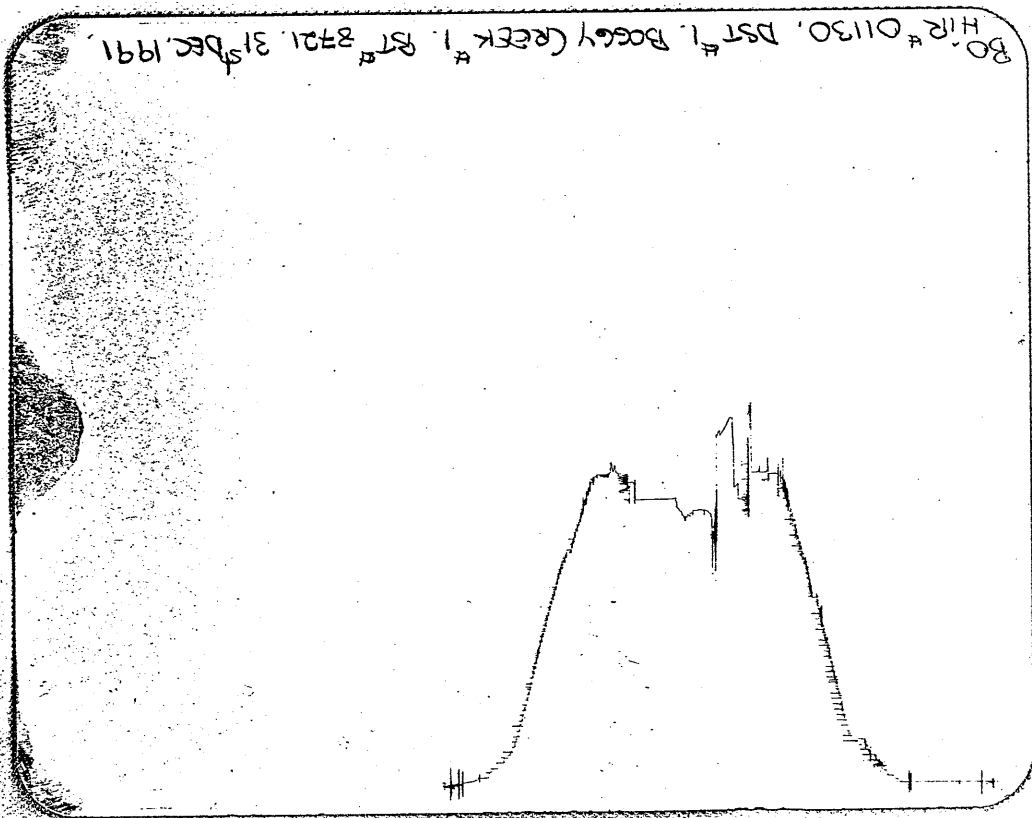
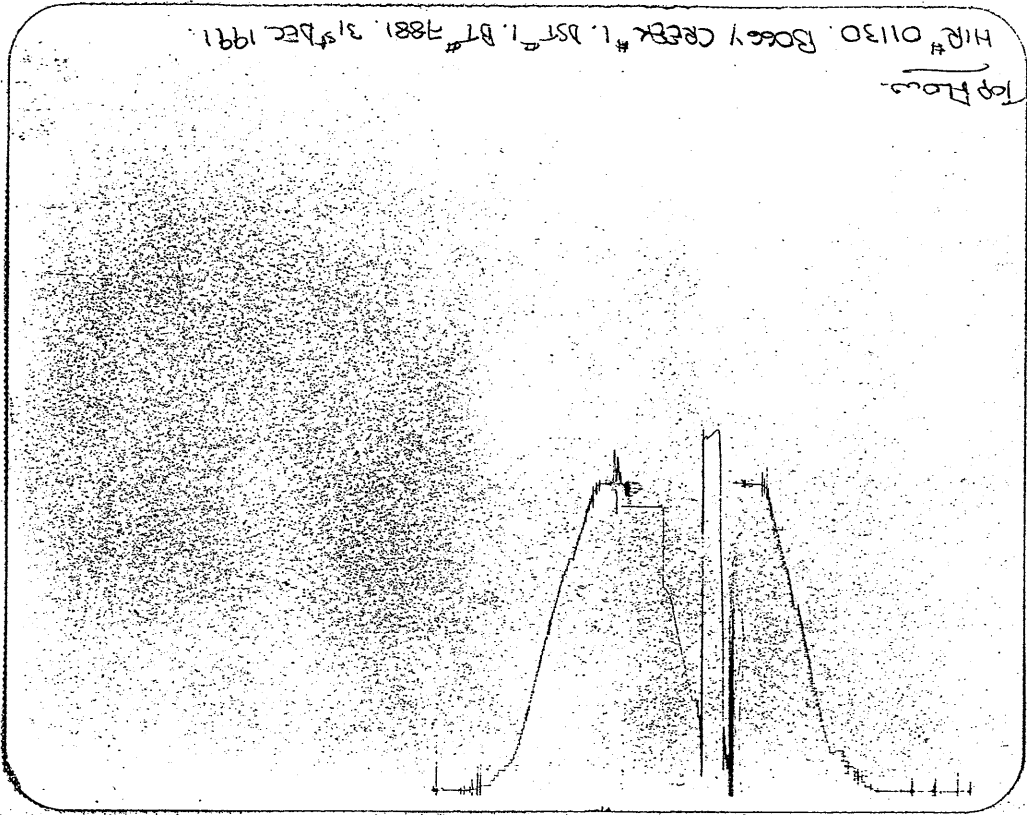
## PRESSURE VS TIME

MECHANICAL gauge no.: 8722  
Clock no.: 23523

Gauge Depth: 5409.92 ft

Hour: 24

TIME HH:MM:SS	D TIME (min)	PRESSURE (psi)	TEMP (F)	COMMENTS
-----				
31-Dec-91				Data Print Frequency: 1
18:27:40		2381.722	155.0	
18:31:04		2564.281	155.0	
18:34:45		2651.037	155.0	
18:35:00				CLOSE HYDRIL
18:37:00				REVERSE CIRCULATE.
18:38:35		2658.762	155.0	
18:40:06		2743.737	155.0	
18:41:24		2692.238	155.0	
18:44:45		2837.393	155.0	
18:47:35		2675.500	155.0	
18:49:37		2857.828	155.0	
18:51:46		2655.865	155.0	
18:58:26		2637.839	155.0	
19:00:00				RIG DOWN SURFACE EQUIPMENT
19:07:16		2635.263	155.0	
19:10:00				PULL OUT OF HOLE
19:12:24		2633.010	155.0	
19:19:08		2603.234	155.0	
19:36:34		2354.189	155.0	
19:48:02		2104.409	155.0	
20:03:04		1916.885	155.0	
20:24:47		1558.900	155.0	
20:41:12		1236.476	155.0	
20:55:34		910.753	155.0	
21:11:57		569.094	155.0	
21:26:56		279.693	155.0	
22:00:04		240.549	155.0	
22:20:55		221.946	155.0	
22:27:48		80.369	155.0	
22:30:00				TOOLS AT FLOOR
22:35:20		15.305	155.0	
22:47:59		14.657	155.0	
22:51:38		14.657	155.0	
23:40:00				TOOLS LAID OUT



Recovery.  
HIR# 01130 DST# 1. BOGGY CREEK #1. RT# 8722. 31<sup>st</sup> DEC. 1991

