

REPORT NO.
113920

PAGE NO. 1

TEST DATE:
25-NOV-1990



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Schlumberger Transient Analysis Report 04 Schlumberger
Based on Model Verified Interpretation
COLO.OIL & GAS CONS.COMM.

COMPANY: GLG ENERGY, L.P.

WELL: #1 VISINTAINER 34-33

TEST IDENTIFICATION

Test Type MFE-OH-DST
Test No. 1
Formation MESA VERDE/ALM
Test Interval (ft) 6277 to 6310
Depth Reference KB

WELL LOCATION

Field SWSE
County MOFFAT
State COLORADO
Sec/Twn/Rng S33T9N91W
Elevation (ft)

HOLE CONDITIONS

Total Depth (MD/TVD) (ft) 6310
Hole Size (in) 7.875
Casing/Liner I.D. (in)
Perf'd Interval/Net Pay (ft) .. / 22
Shot Density/Diameter (in) ...

MUD PROPERTIES

Mud Type KCL WATER
Mud Weight (lb/gal) 9.1
Mud Resistivity (ohm.m) 0.42 @ 68F
Filtrate Resistivity (ohm.m) .. 0.40 @ 68F
Filtrate Chlorides (ppm) 17900

INITIAL TEST CONDITIONS

Initial Hydrostatic (psi) 3031
Gas Cushion Type
Surface Pressure (psi)
Liquid Cushion Type
Cushion Length (ft)

TEST STRING CONFIGURATION

Pipe Length (ft)/I.D. (in) ... 5713 / 3.8
Collar Length (ft)/I.D. (in) .. 525 / 2.25
Packer Depths (ft) 6271, 6277
Bottomhole Choke Size (in) ... 0.93
Gauge Depth (ft)/Type 6290/J-1401

NET PIPE RECOVERY

Volume	Fluid Type	Properties
	GAS & WATER	Rw0.41@68F 17000ppm
2203 ft	CUT MUD	Rw0.55@68F 12100ppm
		Rw0.60@68F 11800ppm

NET SAMPLE CHAMBER RECOVERY

Volume	Fluid Type	Properties
0.84 cuft	Gas	
1840 cc	Water	Rw1.5@68F 4200ppm
Pressure: 420		GOR: 0
		GLR: 73

INTERPRETATION RESULTS

Model of Behavior
Fluid Type Used for Analysis ..
Reservoir Pressure (psia)
Transmissibility (md.ft/cp) ..
Effective Permeability (md) ..
Skin Factor/Damage Ratio
Storativity Ratio, Omega
Interporos.Flow Coef., Lambda ..
Distance to an Anomaly (ft) ..
Radius of Investigation (ft) ..
Potentiometric Surface (ft) ..

ROCK/FLUID/WELLBORE PROPERTIES

Oil Density (deg. API)
Basic Solids (%)
Gas Gravity
GOR (scf/STB)
Water Cut (%)
Viscosity (cp)
Total Compressibility (1/psi) ..
Porosity (%) 12
Reservoir Temperature (F) 158
Form.Vol.Factor (bbl/STB)

PRODUCTION RATE DURING TEST: xxxxxxxx

COMMENTS:

This test was mechanically successful. This zone produced gas and water cut mud during the drillstem test. The well was closed at surface during the test.

The general character of the buildup plots suggest that the zone has low effective permeability and some wellbore damage at the time and conditions of the test.

SEQUENCE OF EVENTS

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DATE	TIME (HR:MIN)	DESCRIPTION	ET (MINS)	BHP (PSIA)	WHP (PSIG)
25-NOV	13:13	Hydrostatic Mud	-2	3031	
	13:15	START FLOW-CLOSED CHAMBER	0	926	0.25
	13:20		5		10.0
	13:25		10		15.0
	13:30	END FLOW & START SHUTIN	15	350	19.0
	14:30	END SHUTIN	75	2543	
	14:33	START FLOW-CLOSED CHAMBER	78	500	20.5
	14:38		83		22.5
	14:43		88		23.75
	14:48		93		25.25
	14:53		98		26.75
	15:03		108		29.75
	15:08		113		32.0
	15:13		118		34.0
	15:18		123		36.0
	15:23		128		37.75
	15:28		133		38.75
	15:33	END FLOW & START SHUTIN	138	633	40.25
	18:33	END SHUTIN	318	2558	
	18:43	Hydrostatic Mud NOTE: GAS TO SURFACE 5 MIN INTO BLOWDOWN (30 PSI). SLID 12' TO BOTTOM WHEN TOOL OPENED. TIGHT COMING OFF BOTTOM FOR 7 STANDS. HIT JARS 4 TIMES.	328	3011	

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BOTTOMHOLE PRESSURE LOG

FIELD REPORT NO. 113920

COMPANY : GLG ENERGY

INSTRUMENT NO. 1401

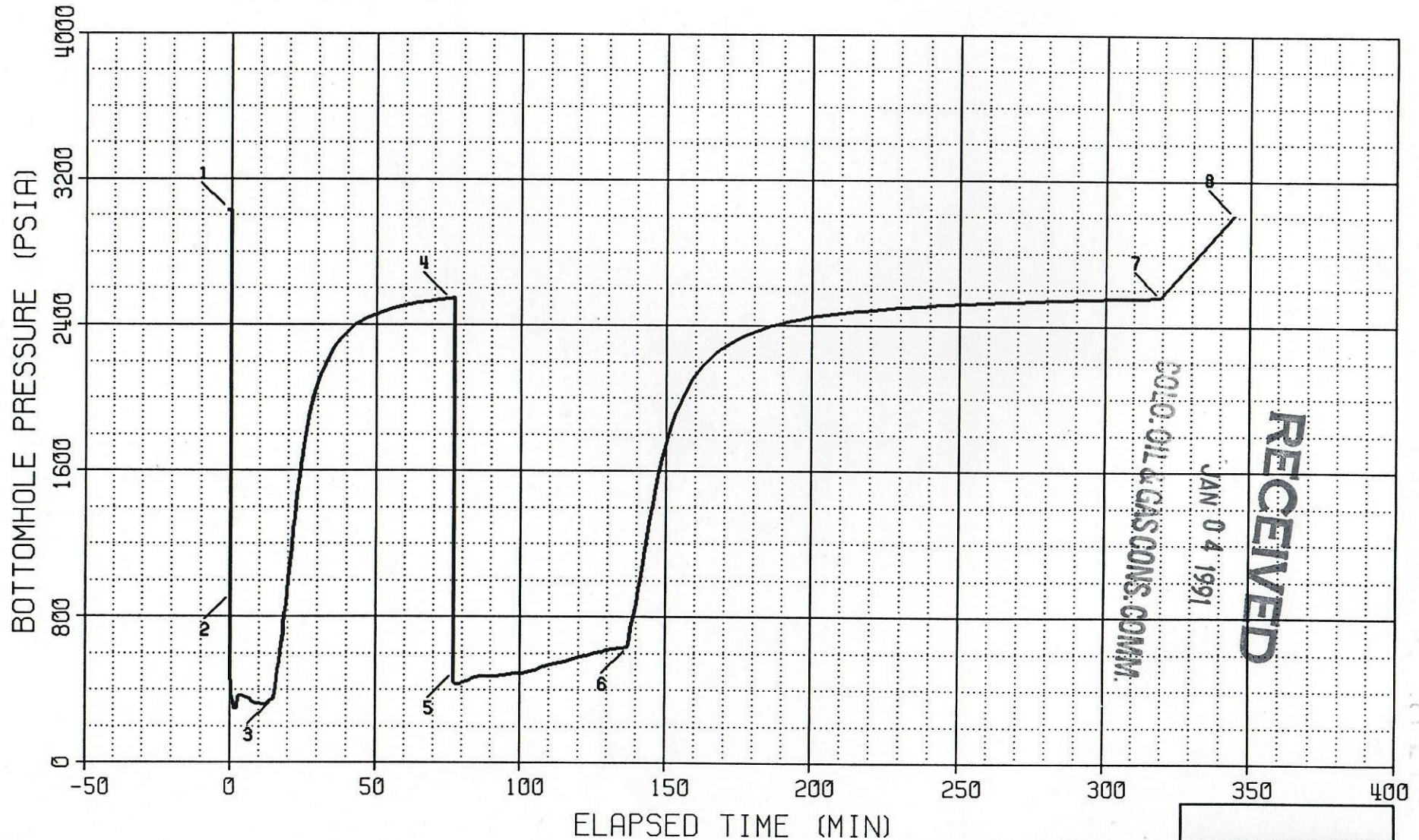
WELL : VISINTAINER 34-33

DEPTH : 6290 FT

CAPACITY : 6400 PSI

Mechanical Recorder Data

PORT OPENING : OUTSIDE



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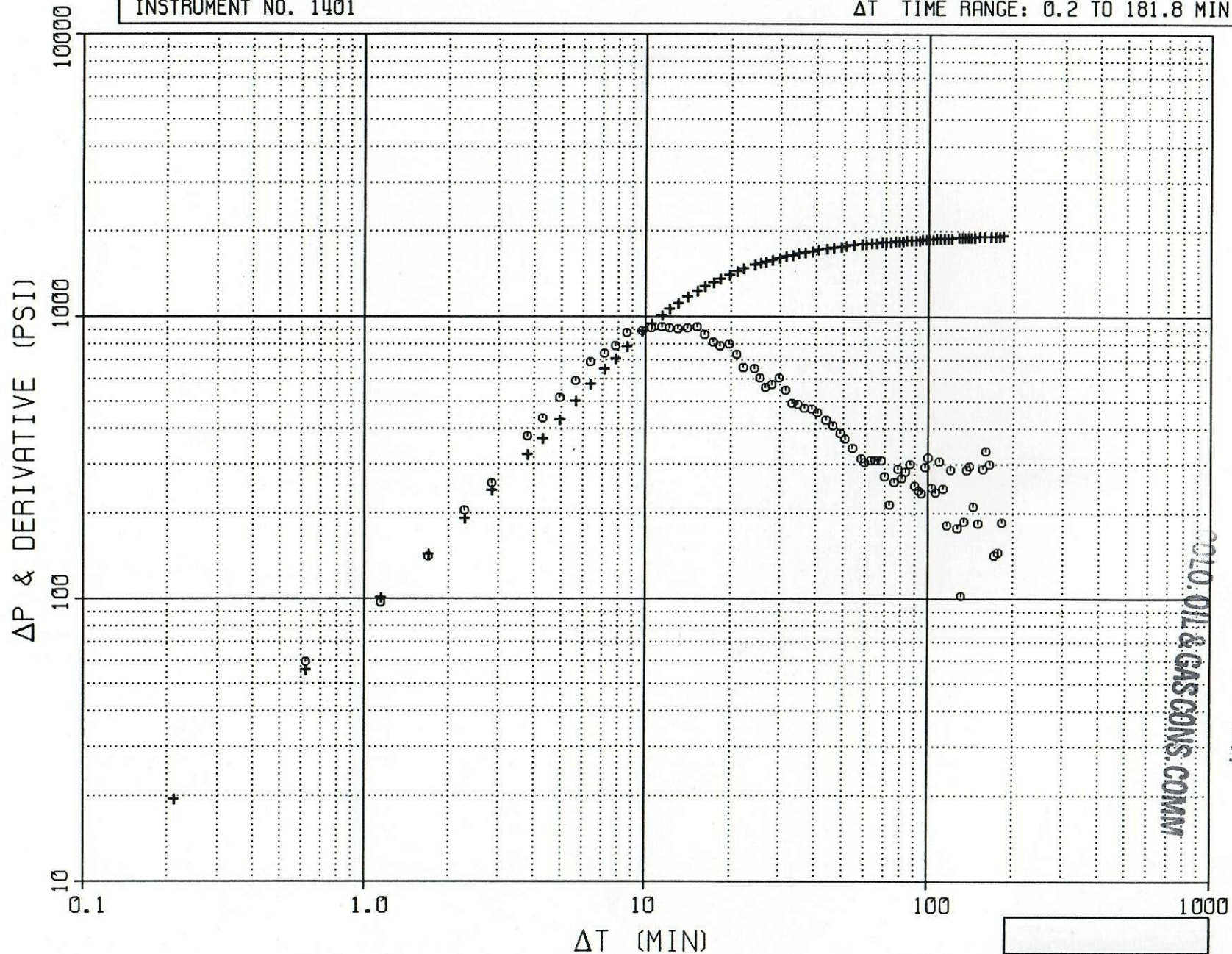
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LOG LOG PLOT

COMPANY : GLG ENERGY
WELL : VISINTAINER 34-33
FIELD REPORT NO. 113920
INSTRUMENT NO. 1401

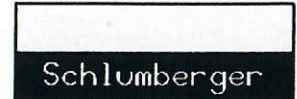
SHUTIN #2 : PRODUCING TIME (T_p): 75.0 MIN
FINAL FLOW PRESSURE (P_{wf}): 633 PSIA
PLOT ELAPSED TIME RANGE: 137.2 TO 318.9 MIN
AT TIME RANGE: 0.2 TO 181.8 MIN



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ΔT (MIN)

0.075 0.15 0.30 0.60 1.2 2.4 5.1 11 25 75 ∞

HORNER PLOT

FIELD REPORT NO. 113920
INSTRUMENT NO. 1401

COMPANY : GLG ENERGY

WELL : VISINTAINER 34-33

SHUTIN #2 : FINAL FLOW PRESSURE (P_{wf}) : 633 PSIA

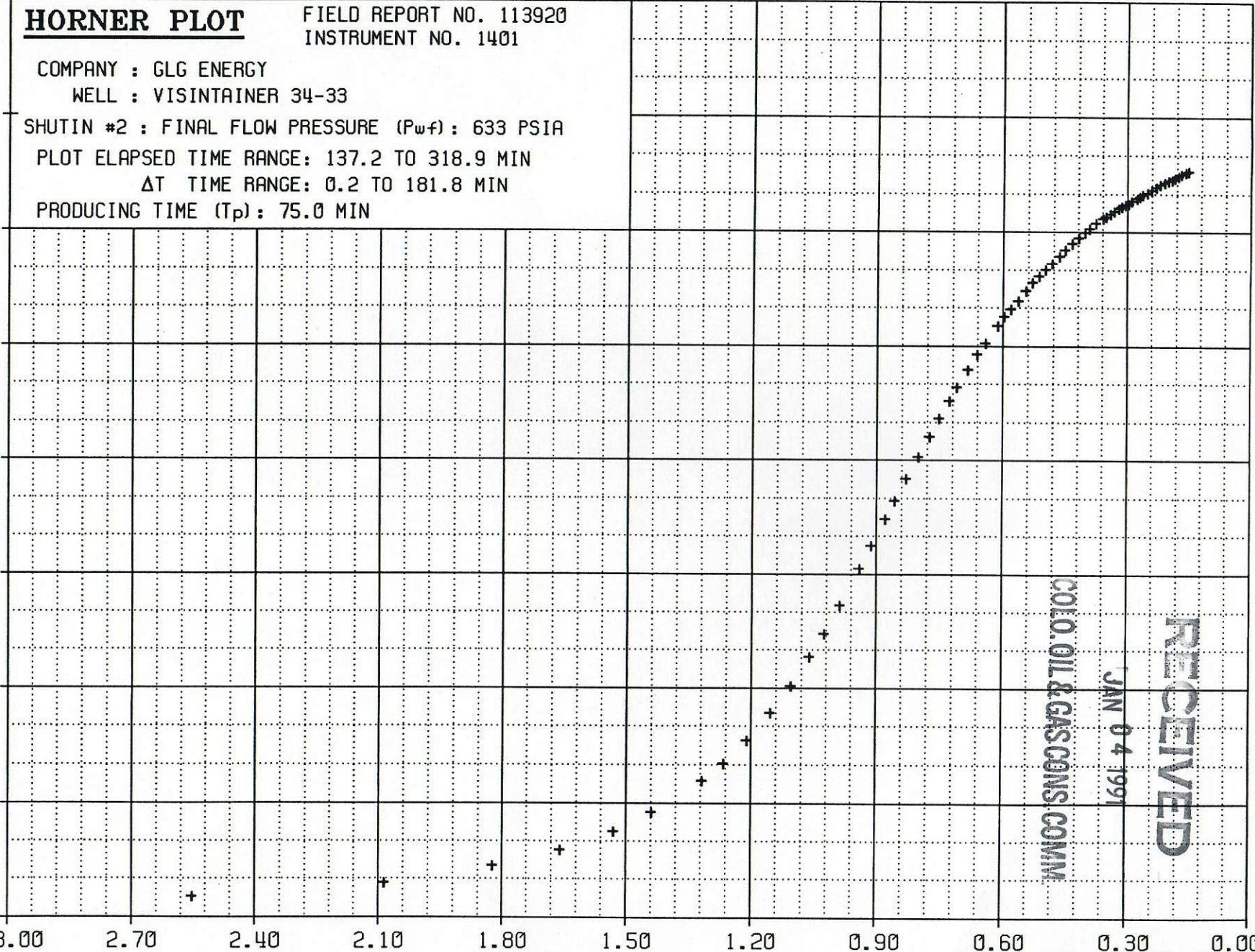
PLOT ELAPSED TIME RANGE: 137.2 TO 318.9 MIN

ΔT TIME RANGE: 0.2 TO 181.8 MIN

PRODUCING TIME (T_p) : 75.0 MIN

PRESSURE (PSIA)

3000
2700
2400
2100
1800
1500
1200
900
600

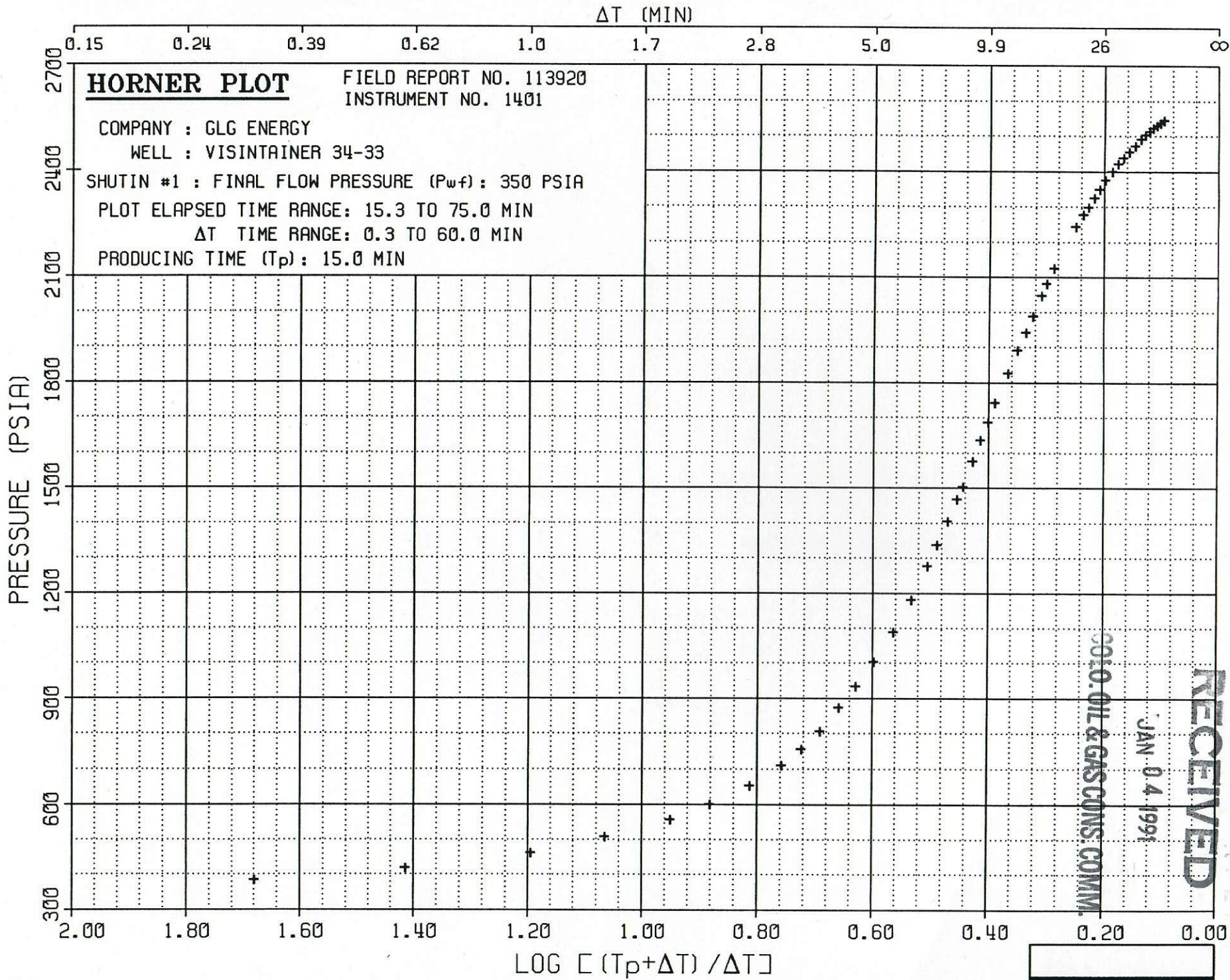


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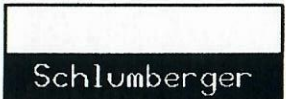
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 ** WELL TEST DATA PRINTOUT **

COMPANY: GLG ENERGY
 WELL: VISINTAINER 34-33

FIELD REPORT NO. 113920
 INSTRUMENT NO. 1401

RECORDER CAPACITY: 6400 PSI PORT OPENING: OUTSIDE DEPTH: 6290 FT
 TEMPERATURE: 158 DEG F

LABEL POINT INFORMATION

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#	TIME OF DAY HH:MM:SS	DATE DD-MMM	EXPLANATION	ELAPSED TIME, MIN	BOT HOLE PRESSURE PSIA
1	13:13:40	25-NOV	HYDROSTATIC MUD	-1.33	3031
2	13:15:00	25-NOV	START FLOW	0.00	926
3	13:30:00	25-NOV	END FLOW & START SHUT-IN	15.00	350
4	14:30:01	25-NOV	END SHUT-IN	75.01	2543
5	14:32:00	25-NOV	START FLOW	77.00	500
6	15:32:01	25-NOV	END FLOW & START SHUT-IN	137.02	633
7	18:33:51	25-NOV	END SHUT-IN	318.85	2558
8	18:59:10	25-NOV	HYDROSTATIC MUD	344.17	3011

SUMMARY OF FLOW PERIODS

PERIOD	START ELAPSED TIME, MIN	END ELAPSED TIME, MIN	DURATION MIN	START PRESSURE PSIA	END PRESSURE PSIA	INITIAL PRESSURE PSIA
1	0.00	15.00	15.00	926	350	926
2	77.00	137.02	60.02	500	633	500

SUMMARY OF SHUTIN PERIODS

PERIOD	START ELAPSED TIME, MIN	END ELAPSED TIME, MIN	DURATION MIN	START PRESSURE PSIA	END PRESSURE PSIA	FINAL FLOW PRESSURE PSIA	PRODUCING TIME, MIN
1	15.00	75.01	60.01	350	2543	350	15.00
2	137.02	318.85	181.83	633	2558	633	75.02

TEST PHASE: FLOW PERIOD # 1

TIME OF DAY	DATE	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE PRESSURE PSIA
HH:MM:SS	DD-MMM			
13:15:00	25-NOV	0.00	0.00	926
13:30:00	25-NOV	15.00	15.00	350

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TEST PHASE: SHUTIN PERIOD # 1

FINAL FLOW PRESSURE = 350 PSIA
PRODUCING TIME = 15.00 MIN

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TIME OF DAY	DATE	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
HH:MM:SS	DD-MMM					
13:30:00	25-NOV	15.00	0.00	350	0	
13:31:01	25-NOV	16.02	1.02	461	111	1.1961
13:32:16	25-NOV	17.27	2.27	600	250	0.8813
13:33:29	25-NOV	18.48	3.48	756	406	0.7251
13:34:35	25-NOV	19.59	4.59	934	584	0.6302
13:35:37	25-NOV	20.62	5.62	1089	739	0.5646
13:36:49	25-NOV	21.82	6.82	1276	926	0.5051
13:38:08	25-NOV	23.13	8.13	1466	1116	0.4541
13:39:23	25-NOV	24.39	9.39	1634	1284	0.4145
13:41:17	25-NOV	26.29	11.29	1826	1476	0.3671
13:43:29	25-NOV	28.48	13.48	1987	1637	0.3249
13:45:58	25-NOV	30.96	15.96	2125	1775	0.2878
13:49:16	25-NOV	34.27	19.27	2241	1891	0.2500
13:51:38	25-NOV	36.64	21.64	2298	1948	0.2287
13:54:17	25-NOV	39.28	24.28	2347	1997	0.2089
13:57:48	25-NOV	42.80	27.80	2399	2049	0.1874
13:59:57	25-NOV	44.95	29.95	2421	2071	0.1763
14:04:22	25-NOV	49.37	34.37	2455	2105	0.1573
14:10:30	25-NOV	55.50	40.50	2489	2139	0.1368
14:16:14	25-NOV	61.24	46.24	2512	2162	0.1220
14:22:46	25-NOV	67.76	52.76	2530	2180	0.1087
14:30:01	25-NOV	75.01	60.01	2543	2193	0.0969

TEST PHASE: FLOW PERIOD # 2

TIME OF DAY	DATE	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE PRESSURE PSIA
HH:MM:SS	DD-MMM			
14:32:00	25-NOV	77.00	0.00	500
14:49:13	25-NOV	94.22	17.22	480
15:04:28	25-NOV	109.47	32.47	534
15:20:36	25-NOV	125.60	48.60	600
15:32:01	25-NOV	137.02	60.02	633

TEST PHASE: SHUTIN PERIOD # 2

FINAL FLOW PRESSURE = 633 PSIA
PRODUCING TIME = 75.02 MIN

TIME OF DAY HH:MM:SS	DATE DD-MMM	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNERS TIME
15:32:01	25-NOV	137.02	0.00	633	0	
15:33:10	25-NOV	138.16	1.14	734	101	1.8248
15:34:18	25-NOV	139.30	2.28	825	192	1.5302
15:35:49	25-NOV	140.82	3.80	955	322	1.3169
15:36:56	25-NOV	141.94	4.92	1063	429	1.2108
15:38:24	25-NOV	143.40	6.38	1206	573	1.1058
15:39:49	25-NOV	144.82	7.80	1343	709	1.0260
15:41:42	25-NOV	146.70	9.68	1513	880	0.9420
15:43:23	25-NOV	148.39	11.37	1643	1009	0.8807
15:46:05	25-NOV	151.09	14.07	1807	1173	0.8015
15:48:07	25-NOV	153.11	16.09	1909	1276	0.7530
15:50:11	25-NOV	155.19	18.17	1990	1356	0.7100
15:52:51	25-NOV	157.85	20.83	2076	1443	0.6629
15:56:08	25-NOV	161.13	24.11	2151	1517	0.6140
15:58:36	25-NOV	163.60	26.58	2195	1562	0.5823
16:01:48	25-NOV	166.80	29.78	2243	1610	0.5464
16:05:03	25-NOV	170.05	33.03	2283	1649	0.5147
16:10:49	25-NOV	175.82	38.80	2335	1702	0.4674
16:18:11	25-NOV	183.18	46.16	2384	1751	0.4192
16:26:17	25-NOV	191.29	54.27	2421	1787	0.3770
16:31:57	25-NOV	196.95	59.93	2439	1805	0.3525
16:37:10	25-NOV	202.16	65.14	2453	1819	0.3328
16:42:20	25-NOV	207.33	70.31	2465	1832	0.3153
16:47:52	25-NOV	212.87	75.85	2473	1840	0.2986
16:52:59	25-NOV	217.98	80.96	2483	1849	0.2848
16:58:33	25-NOV	223.55	86.53	2492	1858	0.2711
17:04:20	25-NOV	229.34	92.32	2499	1866	0.2583
17:09:33	25-NOV	234.55	97.53	2505	1872	0.2478
17:15:15	25-NOV	240.25	103.23	2512	1879	0.2372
17:21:26	25-NOV	246.44	109.42	2518	1885	0.2268
17:28:34	25-NOV	253.56	116.54	2524	1890	0.2158
17:34:38	25-NOV	259.64	122.62	2529	1896	0.2073
17:42:20	25-NOV	267.34	130.32	2535	1901	0.1975
17:48:38	25-NOV	273.64	136.62	2538	1904	0.1901
17:56:01	25-NOV	281.02	144.00	2543	1910	0.1821
18:02:10	25-NOV	287.16	150.14	2545	1911	0.1760
18:08:33	25-NOV	293.55	156.53	2548	1915	0.1700
18:16:11	25-NOV	301.19	164.17	2553	1920	0.1634
18:23:11	25-NOV	308.18	171.16	2556	1923	0.1579
18:28:40	25-NOV	313.67	176.65	2557	1923	0.1537
18:33:51	25-NOV	318.85	181.83	2558	1925	0.1500

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