



HALLIBURTON SERVICES

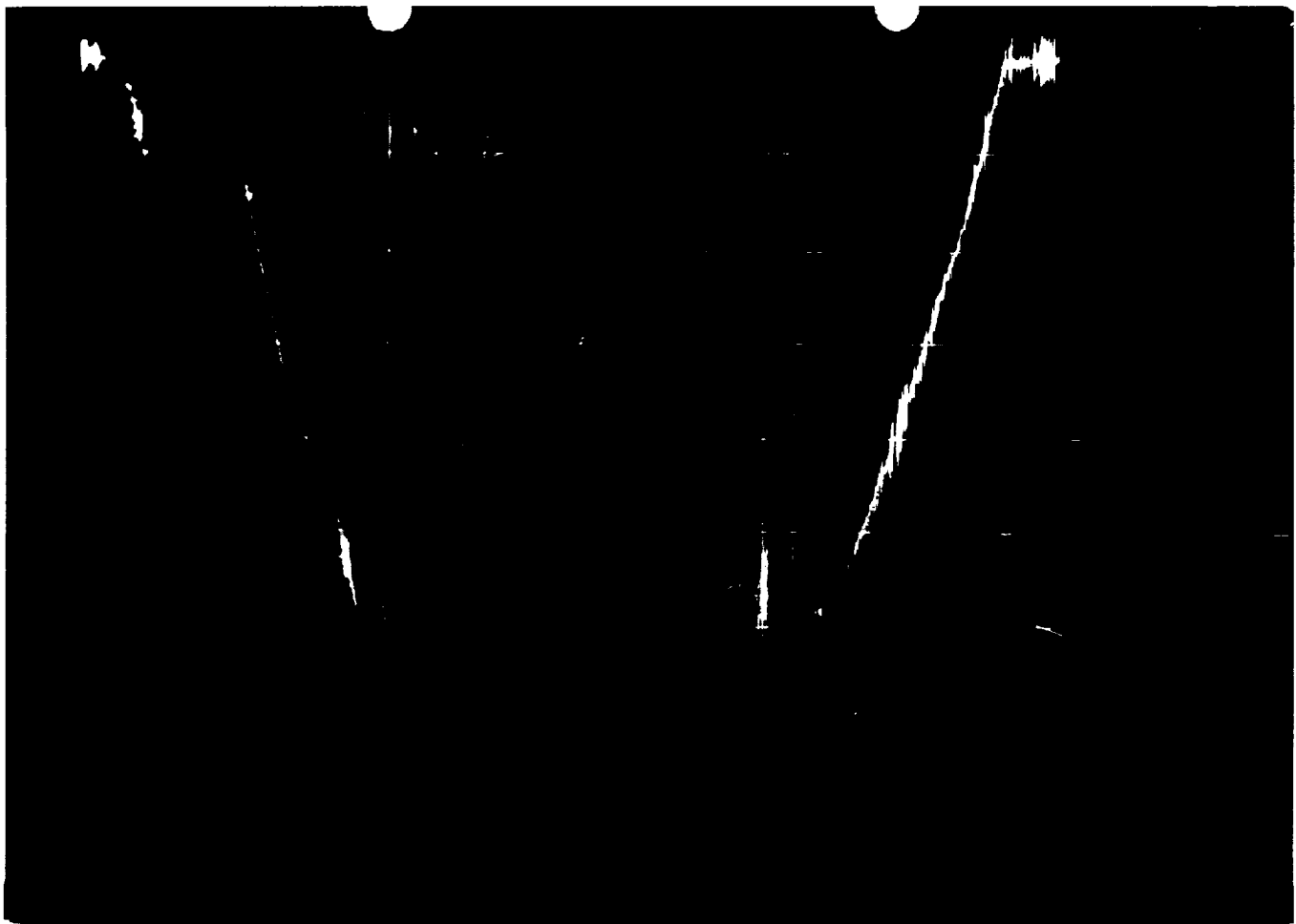
TICKET NO. 50549800

19-FEB-87

H0885

FORMATION TESTING SERVICE REPORT

BARR "H" STATE	1	2	1197.0 - 11285.0	HONDO DRILLING COMPANY
LEASE NAME	WELL NO.	TEST NO.	TESTED INTERVAL	LEASE OWNER/COMPANY NAME
LEGAL LOCATION SEC. - TWP. - RANG.	7.165 33E	FIELD AREA	WEST LOYINGTON	COUNTY
			LEA	STATE NEW MEXICO SM



GAUGE NO: 8061 DEPTH: 11179.0 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	5775	5698.9			
B	INITIAL FIRST FLOW	532	523.2	30.0	28.8	F
C	FINAL FIRST FLOW	1273	1233.5			
C	INITIAL FIRST CLOSED-IN	1273	1233.5	62.0	61.8	C
D	FINAL FIRST CLOSED-IN	3984	4031.0			
E	INITIAL SECOND FLOW	1010	999.0	120.0	119.5	F
F	FINAL SECOND FLOW	2837	2848.8			
F	INITIAL SECOND CLOSED-IN	2837	2848.8	240.0	241.9	C
G	FINAL SECOND CLOSED-IN	3775	3784.9			
H	FINAL HYDROSTATIC	5616	5668.6			

GAUGE NO : 8060 DEPTH : 11282.0 BLANKED OFF : YES HOUR OF CLOCK : 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	5765	5747.8			
B	INITIAL FIRST FLOW	596	749.9	30.0	28.8	F
C	FINAL FIRST FLOW	1299	1287.7			
C	INITIAL FIRST CLOSED-IN	1299	1287.7	62.0	61.8	C
D	FINAL FIRST CLOSED-IN	4040	4050.1			
E	INITIAL SECOND FLOW	1030	1026.4	120.0	119.5	F
F	FINAL SECOND FLOW	2858	2870.1			
F	INITIAL SECOND CLOSED-IN	2858	2870.1	240.0	241.9	C
G	FINAL SECOND CLOSED-IN	3772	3804.5			
H	FINAL HYDROSTATIC	5711	5705.0			

EQUIPMENT & HOLE DATA

FORMATION TESTED: SEAMAN

NET PAY (ft): 60.0

GROSS TESTED FOOTAGE: 88.0

ALL DEPTHS MEASURED FROM: KELLY BUSHING

CASING PERFS. (ft): _____

HOLE OR CASING SIZE (in): 7.875

ELEVATION (ft): 4262.5 GROUND LEVEL

TOTAL DEPTH (ft): 11285.0

PACKER DEPTH(S) (ft): 11192, 11197

FINAL SURFACE CHOKE (in): 0.37500

BOTTOM HOLE CHOKE (in): 0.750

MUD WEIGHT (lb/gal): 9.50

MUD VISCOSITY (sec): 48

ESTIMATED HOLE TEMP. (°F): _____

ACTUAL HOLE TEMP. (°F): 148 @ 11281.0 ft

TICKET NUMBER: 50549800

DATE: 02-14-87 TEST NO: 2

TYPE DST: OPEN HOLE

HALLIBURTON CAMP:
HOBBS

TESTER: WAYNE FLETCHER

WITNESS: JACK JOHNSON

DRILLING CONTRACTOR:
HONDO DRILLING COMPANY

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE

RESISTIVITY

CHLORIDES

MUD PIT 0.109 @ 68 °F 44000 ppm

TOOL TOP 0.110 @ 68 °F 43500 ppm

FLUID CHANGE #3-MUD 0.109 @ 68 °F 40300 ppm

_____ @ _____ °F _____ ppm

_____ @ _____ °F _____ ppm

_____ @ _____ °F _____ ppm

SAMPLER DATA

Psig AT SURFACE: 1300.0

cu.ft. OF GAS: 8.370

cc OF OIL: 1300.0

cc OF WATER: _____

cc OF MUD: _____

TOTAL LIQUID cc: 1300.0

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): 45.4 @ 60 °F

GAS/OIL RATIO (cu.ft. per bbl): 471

GAS GRAVITY: _____

CUSHION DATA

TYPE AMOUNT WEIGHT

RECOVERED :

100 BBLs. OF OIL

MEASURED FROM
TESTER VALVE

REMARKS:

GAS TO THE SURFACE.....

OIL TO THE SURFACE.....

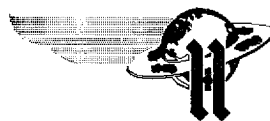
TYPE & SIZE MEASURING DEVICE: 6" POSITIVE CHOKE					TICKET NO: 50549800
TIME	CHOKE SIZE	SURFACE PRESSURE PSI	GAS RATE MCF	LIQUID RATE BPD	REMARKS
2-13-87					
2130					ON LOCATION
2230					PICKED UP TEST TOOLS
2400					STARTED TOOLS IN HOLE
2-14-87					
0530	BH				OPENED TOOL - 6" IN BUCKET
0535	1/4	44			OPENED ON 1/4" CHOKE
0540	1/4	100			
0545	1/4	140			
0546	1/4	150			GAS TO THE SURFACE
0550	1/4	200			
0555	1/4	260			
0600	1/4	300			CLOSED TOOL
0702	3/8	60			OPENED TOOL
0707	3/8	85			
0712	3/8	95			
0717	3/8	100			
0722	3/8	100			
0727	3/8	100			OIL TO THE SURFACE
0732	3/8	120			
0737	3/8	200			
0742	3/8	240			
0747	3/8	280			
0752	3/8	290			
0757	3/8	330			
0802	3/8	350			
0807	3/8	390			
0812	3/8	420			
0817	3/8	440			
0822	3/8	500			
0827	3/8	540			
0832	3/8	560			
0837	3/8	580			
0842	3/8	580			
0847	3/8	590			
0852	3/8	600			
0857	3/8	600			

TYPE & SIZE MEASURING DEVICE: 6" POSITIVE CHOKE

TICKET NO: 50549800[illegible]

TICKET NO: 50549800

CLOCK NO: 4337 HOUR: 24



GAUGE NO: 8061

DEPTH: 11179.0

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST FLOW					
B	1	0.0	523.2		
	2	2.0	562.8	39.6	
	3	4.0	562.8	0.0	
	4	6.0	614.9	52.1	
	5	8.0	561.9	47.0	
	6	10.0	713.7	51.8	
	7	12.0	759.9	46.2	
	8	14.0	809.9	49.9	
	9	16.0	861.7	51.8	
	10	18.0	910.0	48.4	
	11	20.0	967.9	57.9	
	12	22.0	1026.5	58.6	
	13	24.0	1093.7	67.2	
	14	26.0	1159.8	66.2	
	15	28.0	1222.6	62.8	
C	16	28.8	1233.5	11.0	
FIRST CLOSED-IN					
C	1	0.0	1233.5		
	2	1.0	3670.6	2437.0	0.9 1.483
	3	2.0	3637.7	2604.2	1.9 1.130
	4	3.0	3688.5	2654.9	2.7 1.022
	5	4.0	3914.5	2681.0	3.5 0.916
	6	5.0	3932.1	2698.6	4.3 0.827
	7	6.0	3943.9	2710.4	4.9 0.766
	8	7.0	3952.9	2719.3	5.6 0.709
	9	8.0	3960.8	2727.2	6.2 0.665
	10	9.0	3966.3	2732.7	6.9 0.623
	11	10.0	3971.3	2737.7	7.4 0.590
	12	12.0	3978.6	2745.1	8.5 0.531
	13	14.0	3983.4	2749.8	9.4 0.486
	14	16.0	3987.8	2754.3	10.3 0.447
	15	18.0	3991.3	2757.7	11.1 0.414
	16	20.0	3994.9	2761.4	11.8 0.387
	17	22.0	3998.6	2765.1	12.5 0.364
	18	24.0	4001.8	2768.2	13.1 0.342
	19	26.0	4003.4	2769.8	13.7 0.324
	20	28.0	4006.3	2772.7	14.2 0.307
	21	30.0	4008.1	2774.6	14.7 0.292
	22	35.0	4012.3	2778.8	15.8 0.261
	23	40.0	4017.1	2783.5	16.7 0.236
	24	45.0	4020.0	2786.4	17.6 0.215
	25	50.0	4023.6	2790.1	18.3 0.198
	26	55.0	4025.8	2792.2	18.9 0.183
	27	60.0	4028.7	2795.1	19.5 0.170
D	28	61.8	4031.0	2797.5	19.7 0.166

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND FLOW					
E	1	0.0	999.0		
☐ 1	2	1.9	998.2	-0.8	
	3	5.0	1079.9	81.7	
	4	10.0	1237.0	157.1	
	5	15.0	1387.5	150.5	
	6	20.0	1521.1	133.5	
	7	25.0	1651.2	130.1	
	8	30.0	1788.1	136.9	
	9	35.0	1923.7	135.6	
	10	40.0	2065.0	141.3	
	11	45.0	2189.4	124.4	
	12	50.0	2262.7	73.2	
	13	55.0	2356.9	94.2	
	14	60.0	2442.8	85.8	
	15	65.0	2517.0	74.3	
	16	70.0	2579.0	61.9	
	17	75.0	2628.9	49.9	
	18	80.0	2692.1	63.3	
	19	85.0	2741.0	48.8	
	20	90.0	2775.1	34.1	
	21	95.0	2801.3	26.2	
	22	100.0	2818.4	17.1	
	23	105.0	2832.0	13.6	
	24	110.0	2838.9	6.8	
	25	115.0	2845.9	7.1	
F	26	119.5	2848.8	2.9	
SECOND CLOSED-IN					
F	1	0.0	2848.8		
	2	1.0	3565.9	717.1	1.0 2.164
	3	2.0	3596.2	747.3	2.0 1.879
	4	3.0	3610.6	761.8	3.0 1.697
	5	4.0	3619.8	771.0	3.9 1.577
	6	5.0	3625.9	777.1	4.8 1.487
	7	6.0	3630.9	782.1	5.8 1.409
	8	7.0	3636.4	787.6	6.7 1.344
	9	8.0	3641.2	792.3	7.6 1.289
	10	9.0	3643.5	794.7	8.5 1.241
	11	10.0	3646.2	797.3	9.4 1.198
	12	12.0	3650.9	802.1	11.1 1.125
	13	14.0	3655.1	806.3	12.8 1.064
	14	16.0	3650.1	811.3	14.4 1.011
	15	18.0	3653.3	814.4	16.1 0.965
	16	20.0	3656.2	817.3	17.6 0.925
	17	22.0	3659.6	820.8	19.2 0.888
	18	24.0	3672.7	823.9	20.7 0.856
	19	26.0	3675.4	826.5	22.2 0.826
	20	28.0	3678.8	830.0	23.6 0.799
	21	30.0	3680.6	831.8	24.9 0.774

LEGEND:

☐ 1 MINIMUM FLOW PRESSURE

REMARKS:

TICKET NO : 50549800	
CLOCK NO : 4397	HOUR : 24

TICKET NO : 50549800	
CLOCK NO : 4397	HOUR : 24



GAUGE NO: 8061
DEPTH: 11179.0

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DEPTH: 11179.0

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND CLOSED-IN - CONTINUED					
22	35.0	3687.0	838.1	28.3	0.719
23	40.0	3692.2	843.4	31.5	0.672
24	45.0	3698.3	849.4	34.5	0.633
25	50.0	3703.8	855.0	37.4	0.599
26	55.0	3708.3	859.4	40.1	0.568
27	60.0	3712.2	863.4	42.7	0.540
28	70.0	3721.7	872.9	47.6	0.494
29	80.0	3728.3	879.4	52.0	0.455
30	90.0	3734.1	885.2	56.0	0.423
31	100.0	3742.5	893.7	59.7	0.395
32	110.0	3745.9	897.1	63.2	0.371
33	120.0	3750.4	901.5	66.3	0.349
34	135.0	3755.7	907.9	70.7	0.322
35	150.0	3762.5	913.7	74.6	0.299
36	165.0	3767.5	918.7	78.1	0.278
37	180.0	3771.7	922.9	81.3	0.261
38	195.0	3775.4	926.6	84.2	0.246
39	210.0	3779.9	931.0	86.9	0.232
40	225.0	3782.0	933.1	89.4	0.220
G 41	241.9	3784.9	936.0	91.9	0.208

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$

LEGEND :

☐ MINIMUM FLOW PRESSURE

LEGEND :

☐ MINIMUM FLOW PRESSURE

REMARKS :

TICKET NO: 50549800

CLOCK NO: 16511 HOUR: 24



GAUGE NO: 8060

DEPTH: 11282.0

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST FLOW					
B 1	0.0	749.9			
2	2.0	664.9	-84.9		
3	4.0	637.8	-27.1		
4	5.0	683.1	45.3		
5	8.0	720.3	37.1		
6	10.0	767.8	47.5		
7	12.0	816.7	48.9		
8	14.0	869.9	53.2		
9	16.0	916.6	46.7		
10	18.0	965.8	49.1		
11	20.0	1022.6	56.9		
12	22.0	1083.8	61.1		
13	24.0	1147.1	63.3		
14	26.0	1210.4	63.3		
15	28.0	1272.9	62.5		
C 16	28.8	1287.7	14.8		
FIRST CLOSED-IN					
C 1	0.0	1287.7			
2	1.0	2964.8	1677.1	1.0	1.461
3	2.0	3811.6	2523.9	1.9	1.186
4	3.0	3891.5	2603.8	2.7	1.020
5	4.0	3925.0	2637.3	3.5	0.916
6	5.0	3948.3	2660.5	4.3	0.829
7	6.0	3951.5	2673.8	4.9	0.766
8	7.0	3972.6	2684.9	5.6	0.709
9	8.0	3980.4	2692.7	6.2	0.664
10	9.0	3985.8	2698.1	6.8	0.625
11	10.0	3991.2	2703.5	7.4	0.589
12	12.0	3998.5	2710.8	8.5	0.531
13	14.0	4005.3	2717.5	9.4	0.485
14	16.0	4008.5	2720.8	10.3	0.448
15	18.0	4012.5	2724.8	11.1	0.415
16	20.0	4014.7	2727.0	11.8	0.388
17	22.0	4018.8	2731.0	12.5	0.364
18	24.0	4022.0	2734.3	13.1	0.342
19	26.0	4023.3	2735.6	13.7	0.323
20	28.0	4025.8	2738.1	14.2	0.307
21	30.0	4028.2	2740.5	14.7	0.292
22	35.0	4031.5	2743.7	15.8	0.261
23	40.0	4035.8	2748.1	16.7	0.236
24	45.0	4039.6	2751.8	17.6	0.215
25	50.0	4042.5	2754.8	18.3	0.198
26	55.0	4046.3	2758.6	18.9	0.183
27	60.0	4049.0	2761.3	19.5	0.170
D 28	61.8	4050.1	2762.4	19.7	0.166

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND FLOW					
E 1	0.0	1025.4			
☒ 2	1.9	1025.1	-0.3		
3	5.0	1099.7	73.6		
4	10.0	1253.2	153.5		
5	15.0	1407.5	154.3		
6	20.0	1541.0	133.5		
7	25.0	1682.6	141.6		
8	30.0	1814.5	131.9		
9	35.0	1958.5	144.0		
10	40.0	2095.3	136.8		
11	45.0	2221.1	125.8		
12	50.0	2287.3	66.3		
13	55.0	2379.0	91.7		
14	60.0	2462.0	83.0		
15	65.0	2535.0	73.0		
16	70.0	2594.0	59.0		
17	75.0	2647.0	53.0		
18	80.0	2710.6	63.6		
19	85.0	2760.1	49.5		
20	90.0	2796.0	36.0		
21	95.0	2821.4	25.4		
22	100.0	2838.2	16.8		
23	105.0	2851.2	13.0		
24	110.0	2860.9	9.7		
25	115.0	2867.2	6.2		
F 26	119.5	2870.1	3.0		
SECOND CLOSED-IN					
F 1	0.0	2870.1			
2	1.0	3569.2	699.1	1.0	2.160
3	2.0	3605.2	735.1	1.9	1.881
4	3.0	3626.0	755.9	2.9	1.706
5	4.0	3636.0	765.9	3.9	1.579
6	5.0	3644.7	774.6	4.9	1.485
7	6.0	3649.6	779.4	5.7	1.413
8	7.0	3655.0	784.8	6.6	1.349
9	8.0	3659.0	788.9	7.6	1.290
10	9.0	3662.0	791.9	8.5	1.244
11	10.0	3665.2	795.1	9.4	1.200
12	12.0	3670.7	800.5	11.1	1.126
13	14.0	3674.4	804.3	12.8	1.053
14	16.0	3678.0	807.8	14.5	1.010
15	18.0	3681.7	811.6	16.0	0.966
16	20.0	3685.3	815.1	17.6	0.925
17	22.0	3688.2	818.1	19.2	0.889
18	24.0	3692.0	821.9	20.7	0.856
19	26.0	3695.3	825.1	22.1	0.827
20	28.0	3697.2	827.0	23.6	0.799
21	30.0	3700.4	830.3	24.9	0.774

LEGEND:

☒ MINIMUM FLOW PRESSURE

REMARKS:

CLOCK NO : 16511 HOUR : 24



DEPTH: 11282.0

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$	REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND CLOSED-IN - CONTINUED											
22	35.0	3707.2	837.0	28.3	0.719						
23	40.0	3711.5	841.4	31.5	0.673						
24	45.0	3715.3	845.1	34.5	0.633						
25	50.0	3721.8	851.6	37.4	0.598						
26	55.0	3725.3	855.2	40.1	0.568						
27	60.0	3729.9	859.8	42.7	0.541						
28	70.0	3737.7	867.6	47.6	0.494						
29	80.0	3744.2	874.1	52.0	0.455						
30	90.0	3751.5	881.4	56.0	0.423						
31	100.0	3757.7	887.6	59.7	0.395						
32	110.0	3763.7	893.6	63.2	0.371						
33	120.0	3769.1	899.0	66.3	0.349						
34	135.0	3775.6	905.5	70.7	0.322						
35	150.0	3781.3	911.1	74.6	0.299						
36	165.0	3785.6	915.5	78.1	0.278						
37	180.0	3791.0	920.9	81.3	0.261						
38	195.0	3794.2	924.1	84.2	0.246						
39	210.0	3798.3	928.2	86.9	0.232						
40	225.0	3801.3	931.1	89.4	0.220						
G 41	241.9	3804.5	934.4	91.9	0.208						

LEGEND :

1 MINIMUM FLOW PRESSURE

REMARKS:

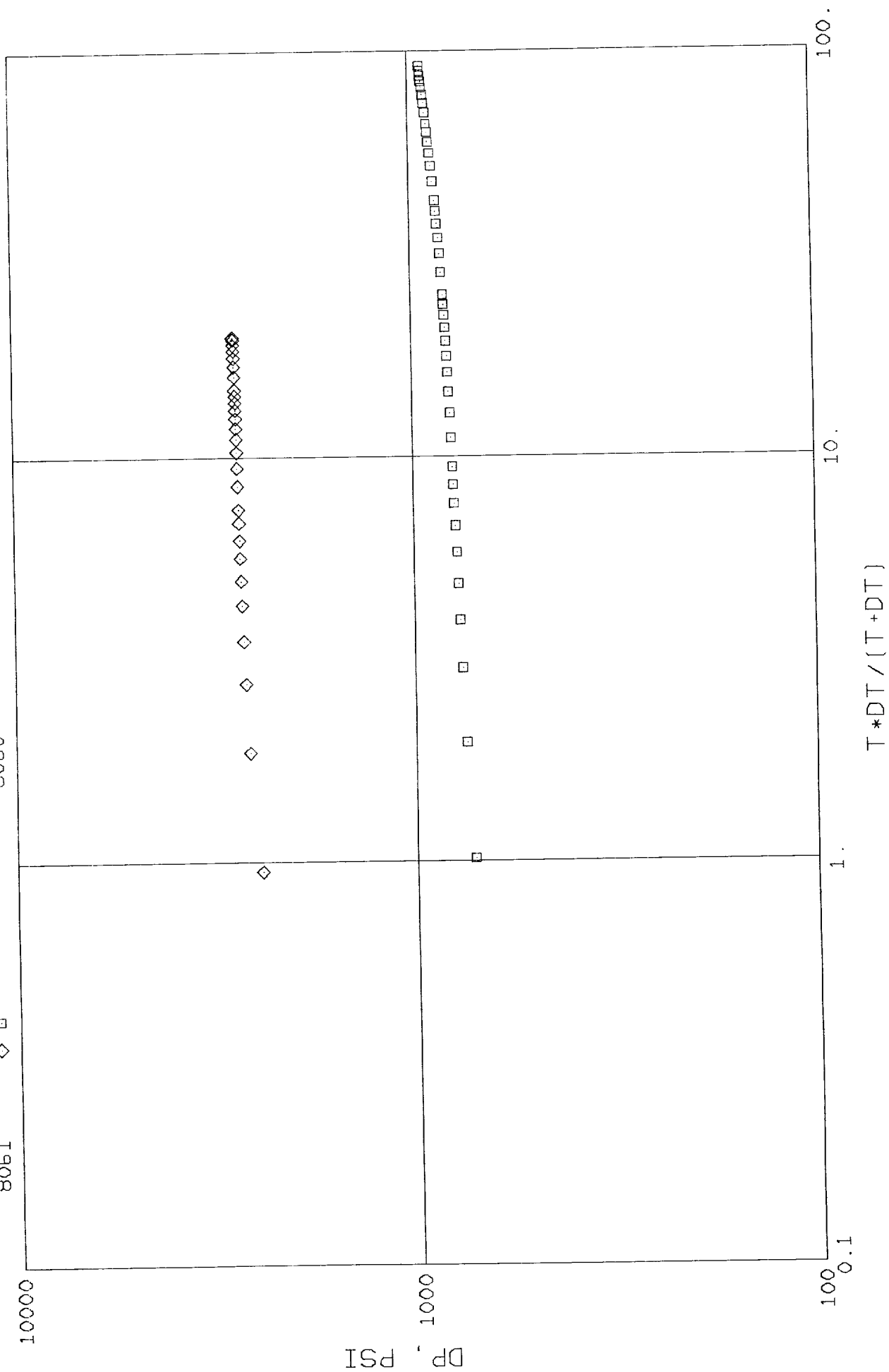
		O.D.	I.D.	LENGTH	DEPTH
1		4.500	3.825	1015.0	
1		4.500	3.840	610.0	
3		6.250	2.250	258.0	
50		6.000	2.750	1.0	11007.0
3		6.250	2.250	150.0	
5		5.750	2.250	1.0	
62		5.000	0.750	9.0	11167.0
14		5.000	0.870	10.0	
80		5.000	2.250	4.0	11179.0
15		5.000	1.750	5.0	
16		5.000	1.000	3.0	
70		6.750	1.530	5.0	11192.0
70		6.750	1.530	5.0	11197.0
19		5.750	1.500	4.0	
5		6.000	3.000	1.0	
3		6.250	2.250	62.0	
5		5.750	2.500	1.0	
20		5.750	3.000	13.0	
81		5.750		4.0	11282.0
TOTAL DEPTH					11285.0

EQUIPMENT DATA

TICKET NO 50549800

GAUGE NO CIP 1 2
8060

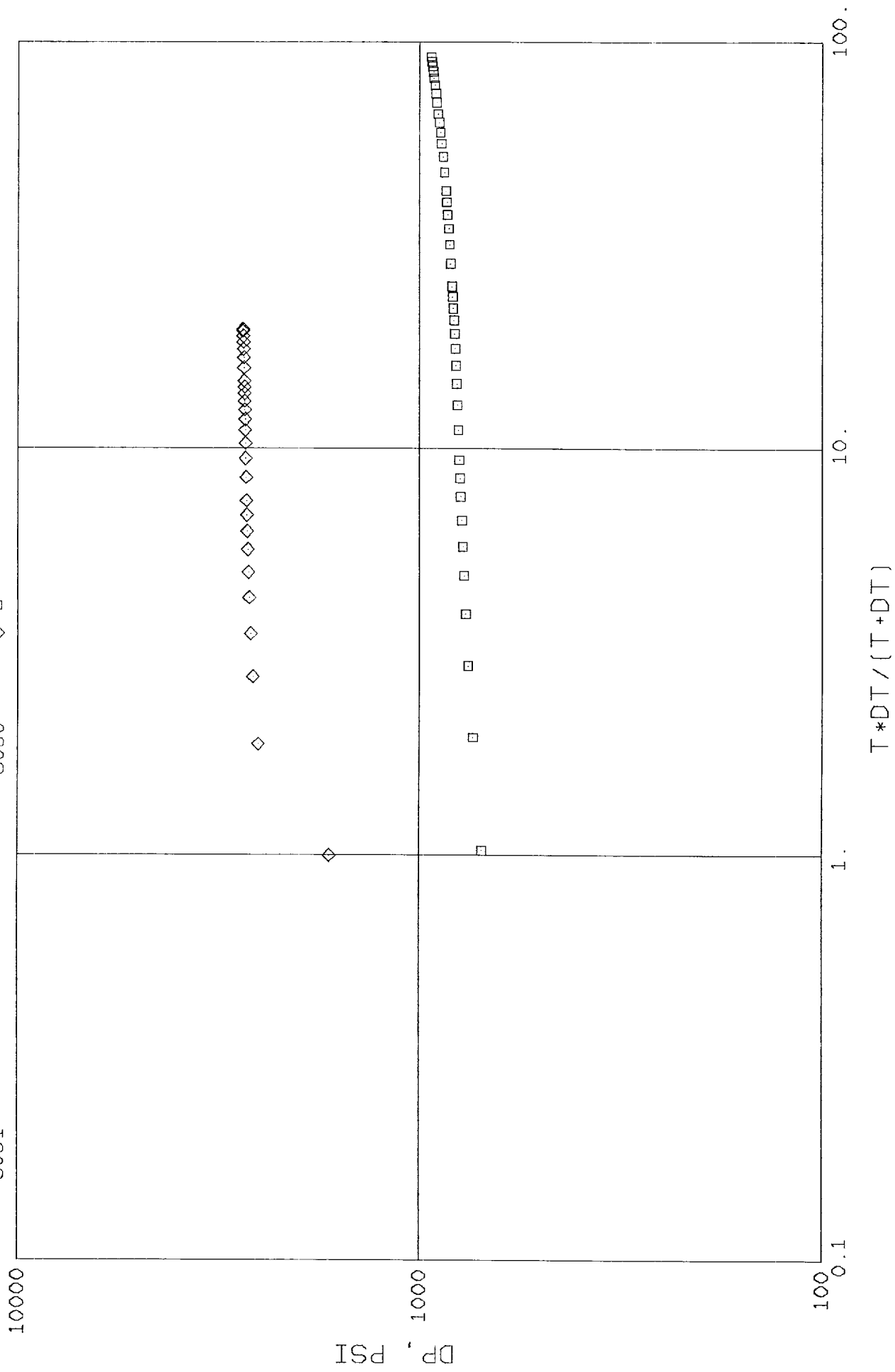
GAUGE NO CIP 1 2
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TICKET NO 50549800

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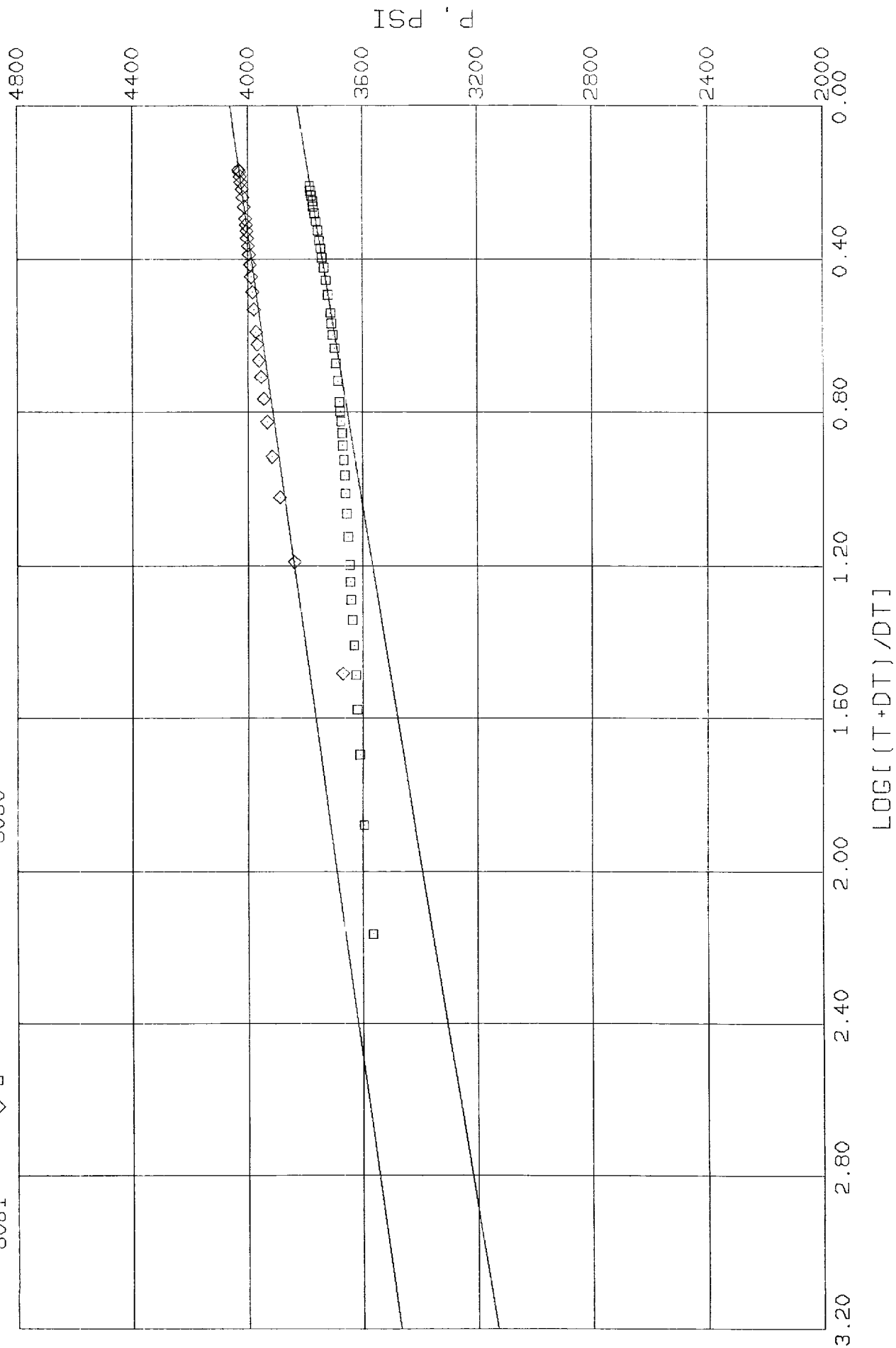
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TICKET NO 50549800

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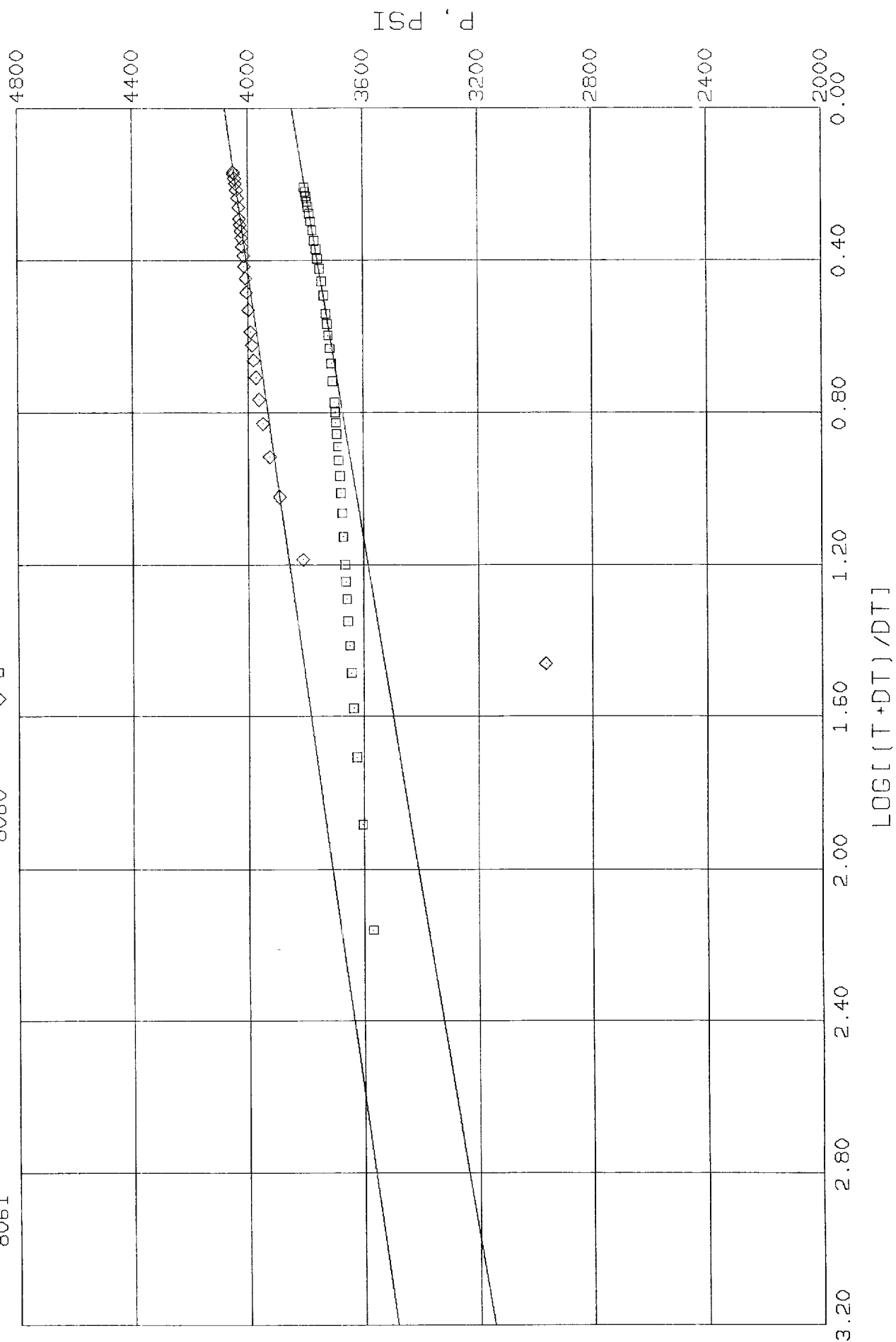
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TICKET NO 50549800

GAUGE NO CIP 1 2
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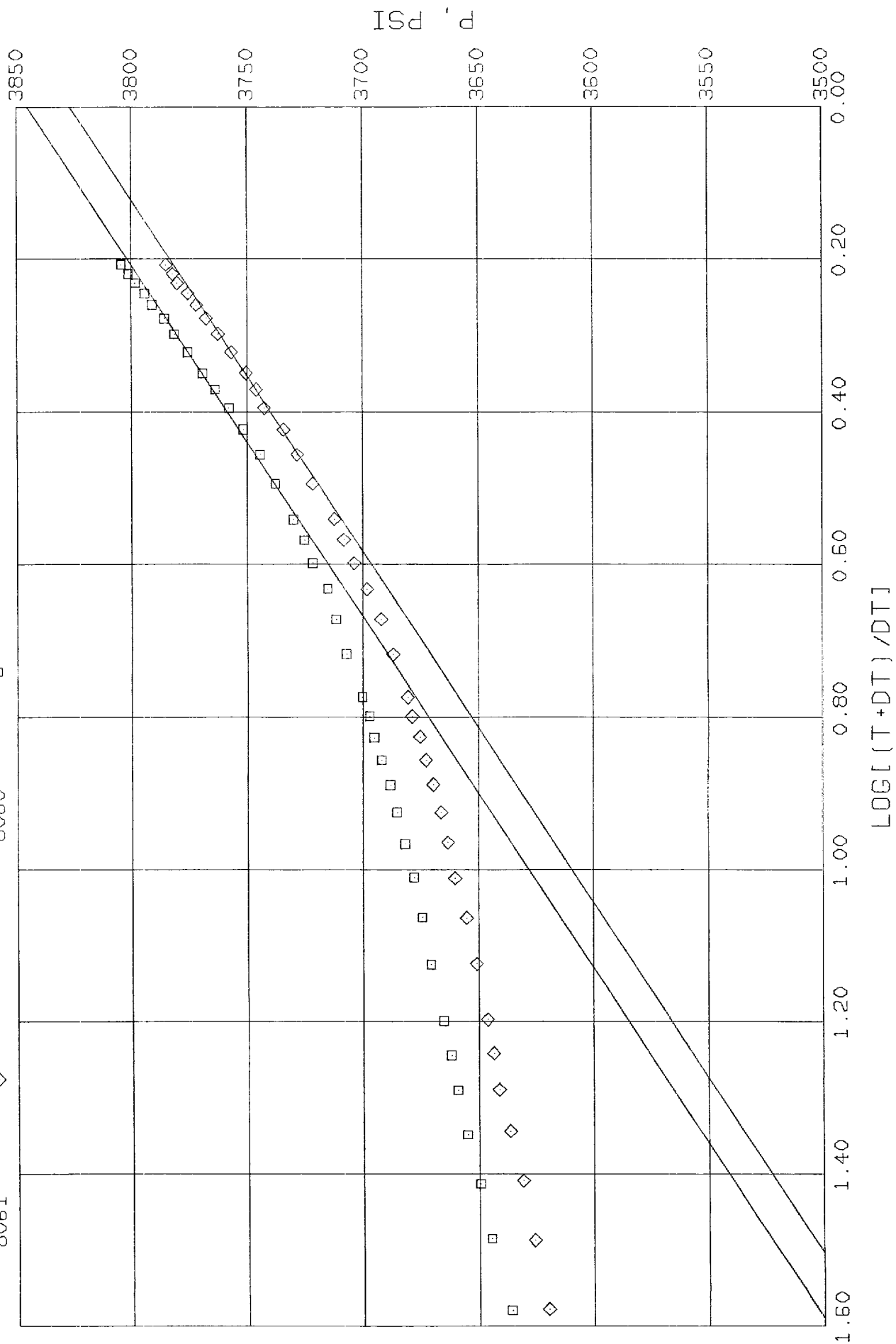
GAUGE NO CIP 1 2
8060



TICKET NO 50549800

GAUGE NO CIP 1 2
8060

GAUGE NO CIP 1 2
8061



SUMMARY OF RESERVOIR PARAMETERS

USING HORNER METHOD FOR LIQUID WELLS

OIL GRAVITY <u>45.4</u> °API@60 °F	WATER SALINITY <u>0.0</u> % SALT
GAS GRAVITY <u>0.700</u>	FLUID GRADIENT <u>0.3466</u> psi/ft
GAS/OIL RATIO <u>1342.2</u> SCF/STB	FLUID PROPERTIES AT <u>3845.3</u> psig
TEMPERATURE <u>148.0</u> °F	VISCOSITY <u>0.300</u> cp
NET PAY <u>60.0</u> ft	FMT VOL FACTOR <u>1.700</u> R_{vol}/S_{vol}
POROSITY <u>10.0</u> %	SYSTEM COMPRESSIBILITY <u>20.81</u> $\times 10^{-6}$ vol/vol/psi
PIPE CAPACITY FACTORS <u>0.00492</u>	<u>0.01287</u> <u>0.01422</u> bbl/ft

GAUGE NUMBER		8061	8051	8060	8060			
GAUGE DEPTH		11179.0	11179.0	11282.0	11282.0			
FLOW AND CIP PERIOD		1	2	1	2			UNITS
FINAL FLOW PRESSURE	P_f	1233.5	2848.8	1287.7	2870.1			psig
TOTAL FLOW TIME	t	28.8	148.3	28.8	148.3			min
EXTRAPOLATED PRESSURE	P^*	4060.0	3826.7	4079.8	3845.3			psig
ONE CYCLE PRESSURE		3875.5	3609.4	3895.4	3628.0			psig
PRODUCTION RATE	Q	1596.3	1670.8	1550.3	1681.6			BPD
TRANSMISSIBILITY	kh/μ	2391.6	2125.2	2322.7	2139.0			$\frac{md-ft}{cp}$
FLOW CAPACITY	kh	717.613	637.696	696.957	641.822			md-ft
PERMEABILITY	k	11.9602	10.5283	11.6160	10.5970			md
SKIN FACTOR	S	12.2	-1.0	12.0	-1.0			
DAMAGE RATIO	DR	3.3	0.8	3.3	0.8			
POTENTIAL RATE	Q_1	5238.7	1670.8	5039.2	1681.6			BPD
RADIUS OF INVESTIGATION	r_i	97.1	207.6	95.6	208.2			ft

REMARKS: ALL CALCULATED RESERVOIR PARAMETERS ARE BASED ON OIL PRODUCTION. THE PRODUCTION RATES WERE DETERMINED USING THE PRESSURE CHANGE METHOD. THE PRODUCTION RATE FOR THE FIRST FLOW PERIOD WAS DETERMINED USING THE ENTIRE FLOW PERIOD WHILE THE PRODUCTION RATE FOR THE SECOND FLOW PERIOD WAS DETERMINED USING THE FIRST 25 MINUTES (PRIOR TO OIL AT SURFACE).

THE ANALYSIS PLOTS INDICATE THE POSSIBLE PRESENCE OF A PERMEABILITY ANOMALY. THE "TAILING-UP" OF THE LATTER CIP DATA POINTS IS INDICATIVE OF NATURAL FRACTURES (CARBONATE FORMATION), I.E. DUAL POROSITY. THE LINE SELECTED IS BELIEVED TO BE CORRECT FOR DATA WITHIN THE TRANSIENT REGION.

NOTE: THE ANALYSIS PLOTS INDICATE A LOSS OF ENERGY FROM THE INITIAL CIP TO THE FINAL CIP INDICATING POSSIBLE DEPLETION. HOWEVER, THE DATA FROM THE FLOW PERIODS INDICATE NO "SLOWING DOWN" OR DECREASE OF FLOW WITH TIME. THE "TAILING-UP" OF THE DATA COULD ALSO POSSIBLY BE THE DETECTION OF A RESERVOIR BOUNDARY OR FAULT.

NOTICE: THESE CALCULATIONS ARE BASED UPON INFORMATION FURNISHED BY YOU AND TAKEN FROM DRILL STEM PRESSURE CHARTS, AND ARE FURNISHED YOU FOR YOUR INFORMATION. IN FURNISHING SUCH CALCULATIONS AND EVALUATIONS BASED THEREON, HALLIBURTON IS MERELY EXPRESSING ITS OPINION. YOU AGREE THAT HALLIBURTON MAKES NO WARRANTY EXPRESS OR IMPLIED AS TO THE ACCURACY OF SUCH CALCULATIONS OR OPINIONS, AND THAT HALLIBURTON SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE, WHETHER DUE TO NEGLIGENCE OR OTHERWISE, IN CONNECTION WITH SUCH OPINIONS.

