

REPORT NO.
125291

PAGE NO. 1

TEST DATE:
13-JUN-1991

STAR

Schlumberger Testing Data Report Pressure Data Report

Schlumberger

COMPANY: STOLTS, DEANE H.

WELL: DYE #1

TEST IDENTIFICATION

Test Type OH-DST
Test No. ONE
Formation BOUGH "A"
Test Interval (ft) 10360 to 10417
Depth Reference GL

WELL LOCATION

Field
County LEA
State NEW MEXICO
Sec/Twp/Rng S.27T.135R.
Elevation (ft) 4134

HOLE CONDITIONS

Total Depth (MD/TVD) (ft) 10417/10417
Hole Size (in) 7.875
Casing/Liner I.D. (in)
Perf'd Interval/Net Pay (ft) .. / 26
Shot Density/Diameter (in) ...

MUD PROPERTIES

Mud Type SALTWATER/GEL
Mud Weight (lb/gal) 9.1
Mud Resistivity (ohm.m)41 @ 75F
Filtrate Resistivity (ohm.m)..
Filtrate Chlorides (ppm) 15000

INITIAL TEST CONDITIONS

Initial Hydrostatic (psi) 4983.60
Gas Cushion Type
Surface Pressure (psi)
Liquid Cushion Type
Cushion Length (ft)

TEST STRING CONFIGURATION

Pipe Length (ft)/I.D. (in) ... 9626 / 3.8
Collar Length (ft)/I.D. (in) .. 699 / 2.25
Packer Depth (ft) 10354, 10360,
Bottomhole Choke Size (in)9375
Gauge Depth (ft)/Type 10411/2011 J-2

NET PIPE RECOVERY

Volume	Fluid Type	Properties
	DRILLING MUD	
269 ft	w/TRACE OIL	Rw.41@75F 15000ppm

NET SAMPLE CHAMBER RECOVERY

Volume	Fluid Type	Properties
.34 cuft	Gas	
1100 cc	Oil	API 43.7@60F
400 cc	Mud	
Pressure: 110		GOR: 49
		GLR: 36

INTERPRETATION RESULTS

Model of Behavior
Fluid Type Used for Analysis..
Reservoir Pressure (psi)
Transmissibility (md.ft/cp) ..
Effective Permeability (md) ..
Skin Factor/Damage Ratio
Storage 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 (%)
Reservoir Temperature (F) 155
Form.Vol.Factor (bbl/STB)

PRODUCTION RATE DURING TEST: Data Report

COMMENTS:

THIS TEST WAS MECHANICALLY SUCCESSFUL. PLUGGING AT THE START OF FIRST FLOW BUT CLEANED ITSELF UP. THE TESTED FORMATION FLOWED DRILLING MUD WITH A TRACE OF OIL INTO THE DRILL STEM. ANY QUESTIONS CONCERNING THIS TEST PLEASE CALL BILLY AT (915) 573-2211. THANK YOU FOR USING SCHLUMBERGER

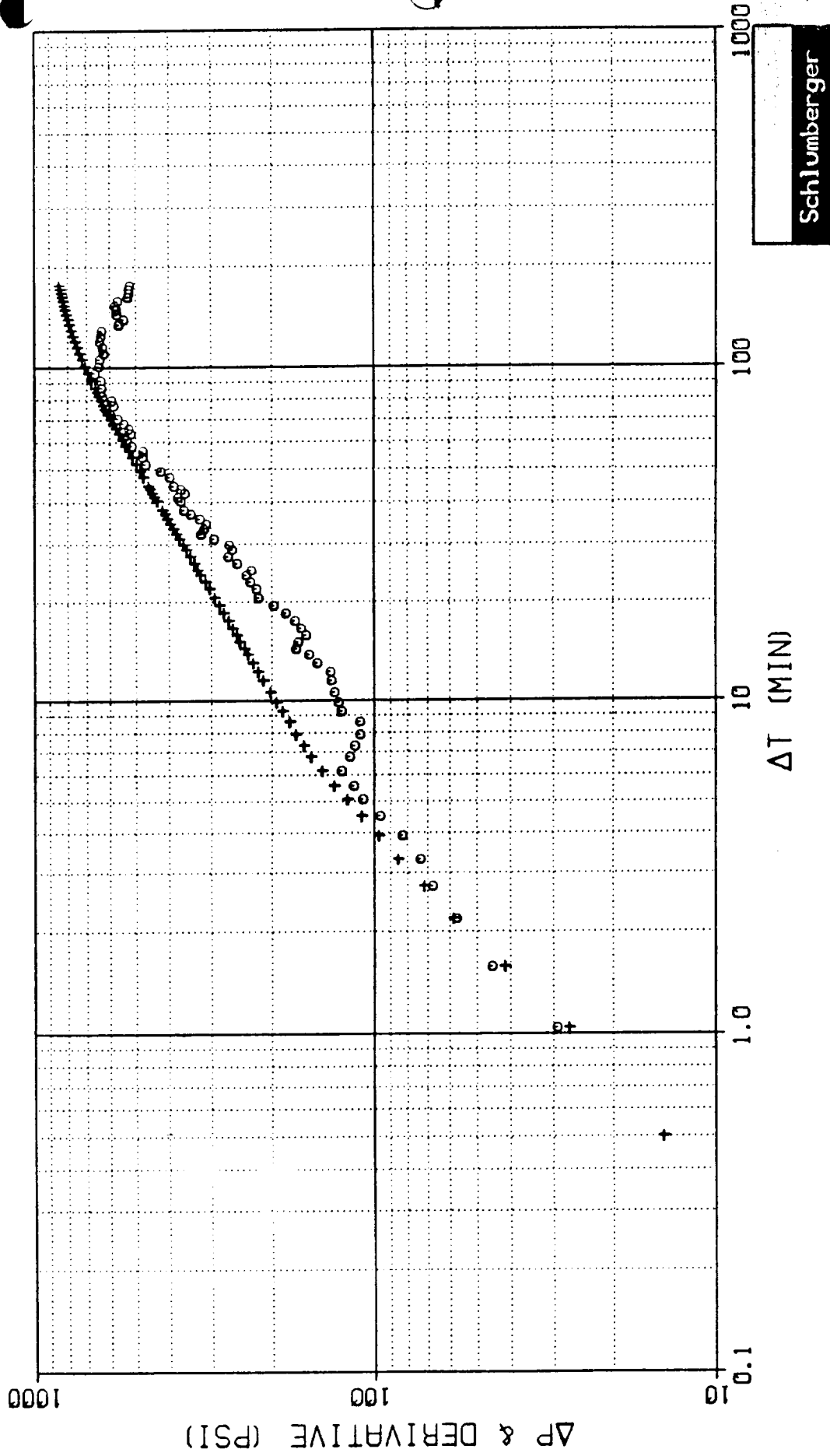
WELL TEST INTERPRETATION REPORT #:125291		PAGE: 2,
CLIENT : STOLTS, DEAN H.		14-JUN-91
REGION : WTD	SEQUENCE OF EVENTS	FIELD:
DISTRICT: SNYDER		ZONE : BOUGH "A"
BASE : MDS		WELL : DYE #1
ENGINEER: B. WILKINSON		LOCATION: S. 27T. 135R.

DATE	TIME (HR:MIN)	DESCRIPTION	ET (MINS)	BHP (PSIA)	WHP (PSIG)
13-JUN	11:41	SET PACKERS (Attemp to Slide Tool 16' To Bottom)	-6		
13-JUN	11:45	Cycled Tool	-2		
13-JUN	11:47	START FLOW w/WEAK BLOW	0	79	TSTM
	11:57	Blow Decreasing	10		TSTM
	12:07	Blow Increasing	20		TSTM
13-JUN	12:17	END FLOW & START SHUTIN	30	185	6 oze
13-JUN	13:17	END SHUTIN	90	1049	
13-JUN	13:18	START FLOW w/GOOD BLOW	91	186	
	13:20	BLOW TO BOTTOM OF BUCKET	93		
	13:23		96		10 oz
	13:28		101		12 oz
	13:33		106		15 oz
	13:38		111		17 oz
	13:43		116		18.5
	13:48		121		20 oz
	13:53		126		21.5
	13:58		131		23.5
	14:03		136		25 oz
	14:08		141		26.5
	14:13		146		27.5
13-JUN	14:18	END FLOW & START SHUTIN	151	254	28.5
13-JUN	17:18	END SHUTIN	331	1099	
13-JUN	17:20	PULL PACKERS LOOSE	333		

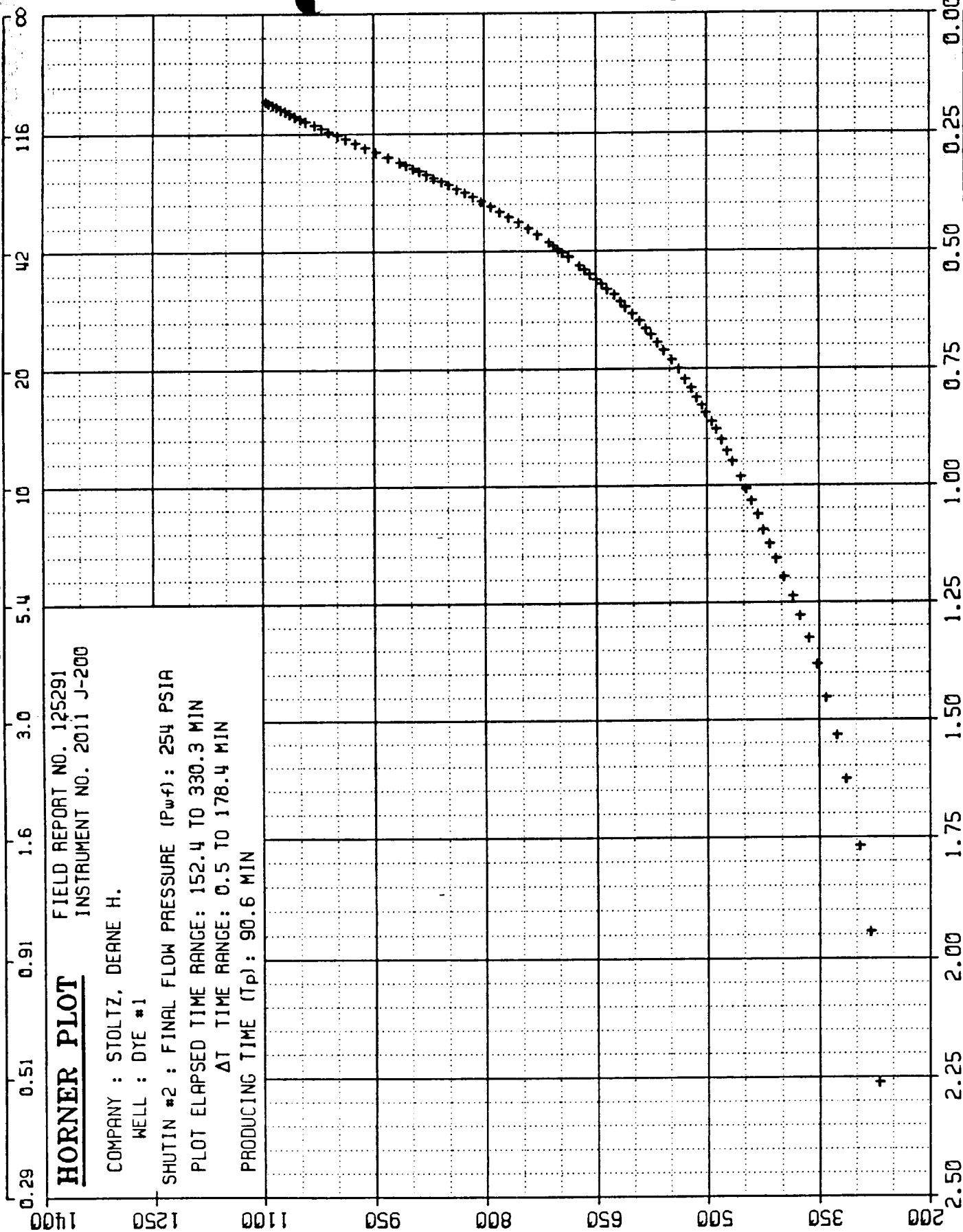
LOG LOG PLOT

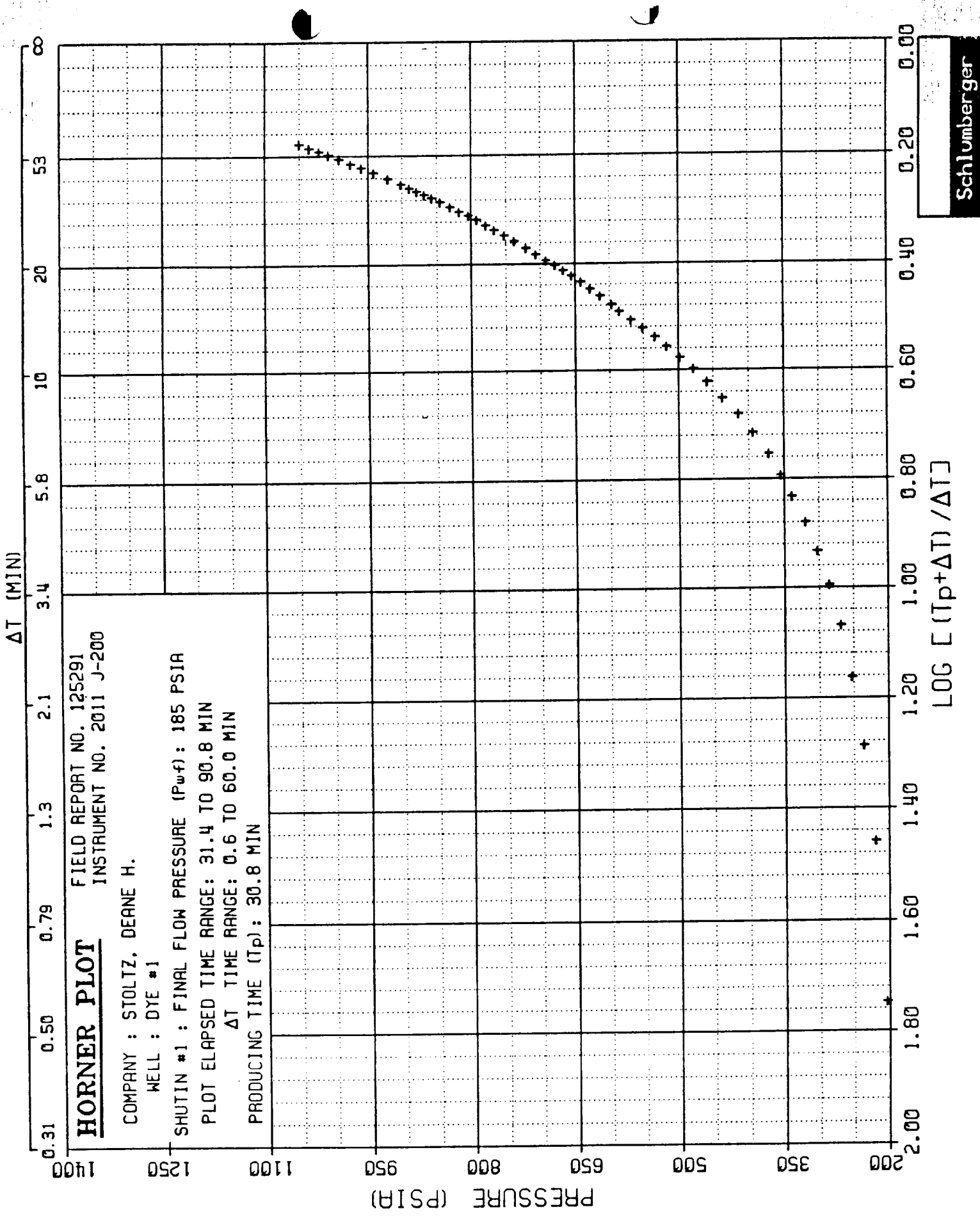
COMPANY : STOLTZ, DEARNE H.
WELL : DYE #1
FIELD REPORT NO. 125291
INSTRUMENT NO. 2011 J-200

SHUTIN #2 : PRODUCING TIME (Tp) : 90.6 MIN
FINAL FLOW PRESSURE (Pwf) : 254 PSIA
PLOT ELAPSED TIME RANGE: 152.4 TO 330.3 MIN
AT TIME RANGE: 0.5 TO 178.4 MIN



ΔT (MIN)





BOTTOMHOLE PRESSURE LOG

COMPANY : STOLTZ, DEANE H.

FIELD REPORT NO. 125291

WELL : DYE #1

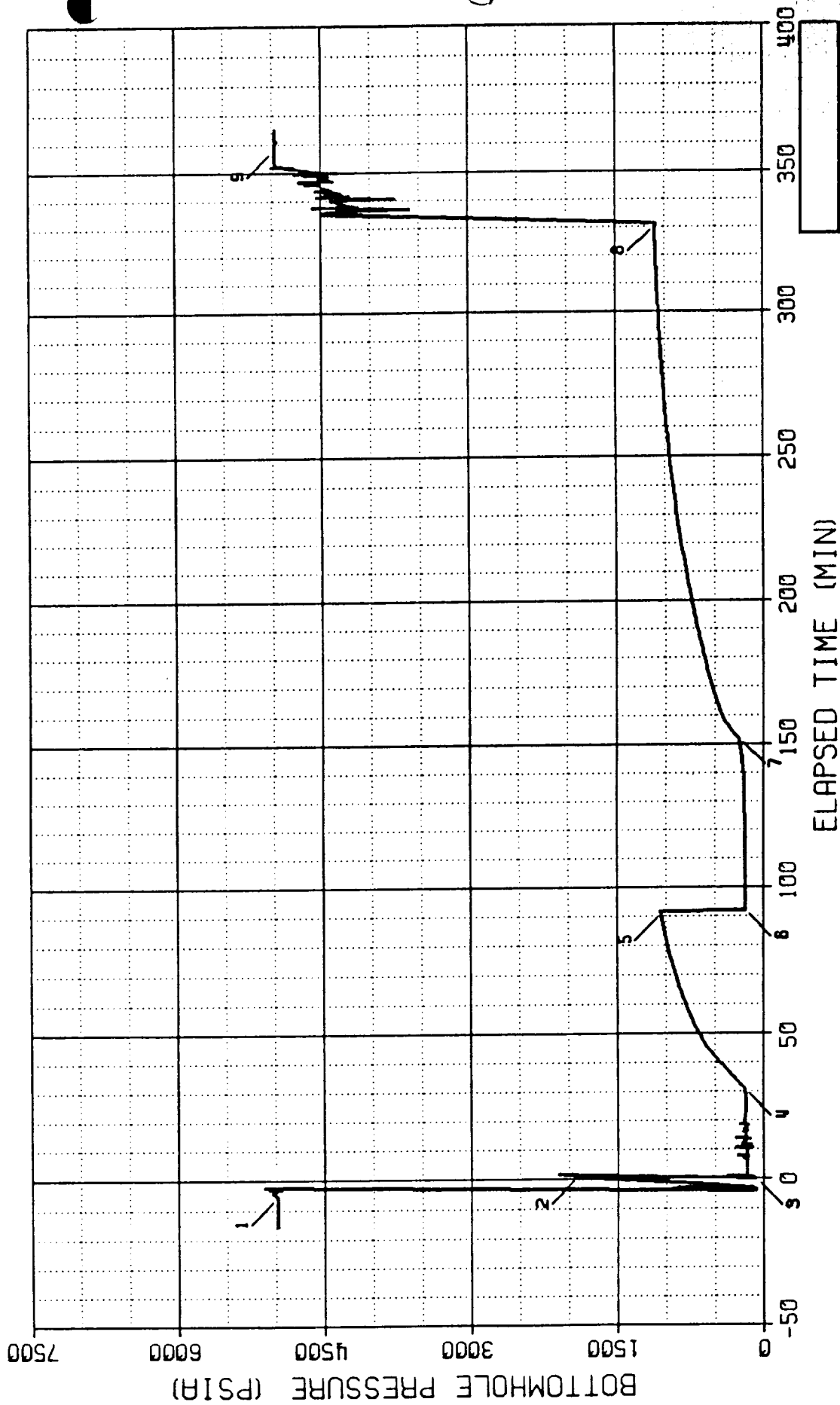
INSTRUMENT NO. 2011 J-200

DEPTH : 10411 FT

Mechanical Recorder Data

CAPACITY : 6400 PSI

PORT OPENING : OUTSIDE



Schlumberger

 ** WELL TEST DATA PRINTOUT **

COMPANY: STOLTZ, DEANE H.
 WELL: DYE #1

FIELD REPORT NO. 125291
 INSTRUMENT NO. 2011 J-200

RECORDER CAPACITY: 6400 PSI PORT OPENING: OUTSIDE DEPTH: 10411 FT
 TEMPERATURE: 155 DEG F

LABEL POINT INFORMATION

#	TIME OF DAY HH:MM:SS	DATE DD-MMM	EXPLANATION	ELAPSED TIME, MIN	BOT HOLE PRESSURE PSIA
1	11:41:18	13-JUN	HYDROSTATIC MUD	-5.70	4984
2	11:47:41	13-JUN	CYCLED TOOL	0.69	1903
3	11:47:00	13-JUN	START FLOW	0.00	79
4	12:17:48	13-JUN	END FLOW & START SHUT-IN	30.80	185
5	13:17:47	13-JUN	END SHUT-IN	90.78	1049
6	13:19:07	13-JUN	START FLOW	92.12	186
7	14:18:53	13-JUN	END FLOW & START SHUT-IN	151.88	254
8	17:17:19	13-JUN	END SHUT-IN	330.32	1099
9	17:44:48	13-JUN	HYDROSTATIC MUD	357.80	4972

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	30.80	30.80	79	185	79
2	92.12	151.88	59.76	186	254	186

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	30.80	90.78	59.98	185	1049	185	30.80
2	151.88	330.32	178.44	254	1099	254	90.56

TEST PHASE: FLOW PERIOD # 1

TIME OF DAY	DATE	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE PRESSURE PSIA
HH:MM:SS	DD-MMM			
11:47:00	13-JUN	0.00	0.00	79
12:02:47	13-JUN	15.78	15.78	177
12:17:48	13-JUN	30.80	30.80	185

TEST PHASE: SHUTIN PERIOD # 1

FINAL FLOW PRESSURE = 185 PSIA
PRODUCING TIME = 30.80 MIN

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					
12:17:48	13-JUN	30.80	0.00	185	0	
12:18:55	13-JUN	31.91	1.11	220	34	1.4586
12:20:04	13-JUN	33.07	2.27	253	68	1.1634
12:21:16	13-JUN	34.26	3.46	286	100	0.9957
12:22:29	13-JUN	35.48	4.68	319	134	0.8797
12:23:41	13-JUN	36.69	5.89	354	169	0.7944
12:25:09	13-JUN	38.15	7.35	394	209	0.7152
12:26:39	13-JUN	39.65	8.85	437	252	0.6513
12:28:11	13-JUN	41.18	10.38	478	293	0.5985
12:30:18	13-JUN	43.30	12.50	534	349	0.5396
12:32:26	13-JUN	45.44	14.64	585	400	0.4919
12:34:50	13-JUN	47.83	17.03	628	442	0.4485
12:37:10	13-JUN	50.17	19.37	667	482	0.4133
12:39:41	13-JUN	52.68	21.88	706	521	0.3816
12:41:53	13-JUN	54.89	24.09	737	552	0.3577
12:44:10	13-JUN	57.17	26.37	766	581	0.3361
12:46:22	13-JUN	59.37	28.57	792	606	0.3177
12:48:31	13-JUN	61.51	30.71	816	631	0.3017
12:54:31	13-JUN	67.51	36.71	878	693	0.2646
13:01:38	13-JUN	74.63	43.83	941	756	0.2311
13:08:25	13-JUN	81.41	50.61	992	806	0.2064
13:15:21	13-JUN	88.35	57.55	1035	850	0.1862
13:17:47	13-JUN	90.78	59.98	1049	864	0.1800

TEST PHASE: FLOW PERIOD # 2

TIME OF DAY	DATE	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE PRESSURE PSIA
HH:MM:SS	DD-MMM			
13:19:07	13-JUN	92.12	0.00	186
13:36:11	13-JUN	109.18	17.06	193
13:54:50	13-JUN	127.84	35.72	196
14:11:52	13-JUN	144.86	52.74	222
14:18:53	13-JUN	151.88	59.76	254

TEST PHASE: SHUTIN PERIOD # 2

FINAL FLOW PRESSURE = 254 PSIA
PRODUCING TIME = 90.56 MIN

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					
14:18:53	13-JUN	151.88	0.00	254	0	
14:19:55	13-JUN	152.92	1.04	281	27	1.9449

TEST PHASE: SHUTIN PERIOD # 2

FINAL FLOW PRESSURE = 254 PSIA

PRODUCING TIME = 90.56 MIN

TIME OF DAY HH:MM:SS	DATE DD-MMM	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
14:21:04	13-JUN	154.07	2.19	313	58	1.6269
14:22:12	13-JUN	155.20	3.32	340	85	1.4514
14:23:22	13-JUN	156.37	4.49	363	109	1.3257
14:24:27	13-JUN	157.45	5.57	385	130	1.2370
14:25:38	13-JUN	158.64	6.76	407	153	1.1583
14:26:47	13-JUN	159.78	7.90	424	169	1.0956
14:28:08	13-JUN	161.14	9.26	440	185	1.0326
14:29:27	13-JUN	162.45	10.57	455	200	0.9808
14:31:52	13-JUN	164.87	12.99	479	225	0.9015
14:33:58	13-JUN	166.97	15.09	501	246	0.8452
14:36:22	13-JUN	169.37	17.49	521	266	0.7908
14:38:26	13-JUN	171.43	19.55	537	283	0.7507
14:40:44	13-JUN	173.74	21.86	557	303	0.7112
14:42:57	13-JUN	175.95	24.07	575	321	0.6778
14:45:08	13-JUN	178.13	26.25	591	336	0.6484
14:47:37	13-JUN	180.62	28.74	609	355	0.6182
14:49:55	13-JUN	182.91	31.03	625	370	0.5931
14:55:36	13-JUN	188.60	36.72	664	409	0.5399
15:01:23	13-JUN	194.39	42.51	701	446	0.4956
15:08:20	13-JUN	201.33	49.45	739	485	0.4520
15:15:18	13-JUN	208.30	56.42	778	524	0.4158
15:22:15	13-JUN	215.25	63.37	815	560	0.3854
15:29:14	13-JUN	222.24	70.36	846	592	0.3593
15:35:58	13-JUN	228.96	77.08	877	622	0.3374
15:43:04	13-JUN	236.07	84.19	905	650	0.3172
15:49:50	13-JUN	242.84	90.96	929	675	0.3001
15:59:06	13-JUN	252.10	100.22	961	706	0.2796
16:08:29	13-JUN	261.48	109.60	987	733	0.2616
16:17:35	13-JUN	270.59	118.71	1009	755	0.2462
16:26:51	13-JUN	279.85	127.97	1029	775	0.2324
16:32:49	13-JUN	285.82	133.94	1041	786	0.2243
16:42:12	13-JUN	295.20	143.32	1055	801	0.2127
16:51:29	13-JUN	304.49	152.61	1069	815	0.2023
17:00:36	13-JUN	313.60	161.72	1081	827	0.1931
17:09:41	13-JUN	322.69	170.81	1091	837	0.1847
17:17:19	13-JUN	330.32	178.44	1099	844	0.1783

WELL TEST INTERPRETATION REPORT #: 125291		PAGE: 12, 14-JUN-91
CLIENT: STOLTS, DEANE H.		
REGION: WTD DISTRICT: SNYDER BASE: MDS ENGINEER: B. WILKINSON	DISTRIBUTION OF REPORTS	
		FIELD: ZONE: BOUGH "A" WELL: DYE #1 LOCATION: S. 27T. 135A.

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