

REPORT NO:
47116E

WELL PERFORMANCE TESTING™ REPORT

FLOPETROL JOHNSTON
Schlumberger

TEST DATE:
11-29-84

A Production System Analysis (NODAL™)
Based on Model Verified™ Interpretation

PAGE NO: 1

Company: Amoco Production Company

Well: Salman Ranch "B" #2

TEST IDENTIFICATION

Test Type MFE OH Teleflow
Test No. Three
Formation Pennsylvanian
Test Interval (ft) 6973 - 6922'
Reference Depth KB

RECEIVED

DISTRICT

DEC 12 1984

HOLE CONDITIONS

Total Depth (MD/TVD) (ft) 6973
Hole Size (in) 8-3/4
Csg/Liner I.D. (in) --
Perf'd Interval/Net Pay (ft) - / 24
Shot Density/Diameter (in) --

WELL LOCATION

Field Wildcat
County Mora
State New Mexico
Sec/Twn/Rng 21 / 21N / 17E
Elevation (ft) --

MUD PROPERTIES

Mud Type LSND
Mud Weight (lb/gal) 9.0
Mud Resistivity (OHM-M) 4.1 @ 35° F.
Filtrate Resistivity (OHM-M) .. --
Filtrate Chlorides (PPM) 300

INITIAL TEST CONDITIONS

Initial Hydrostatic (psi)
Gas Cushion Type None
Surface Pressure (psi) --
Liquid Cushion Type None
Cushion Length (ft) --

TEST STRING CONFIGURATION

Pipe Length (ft)/I.D. (in) 6161 / 3.83
Collar Length (ft)/I.D. (in) 710 / 2.25
Packer Depth(s) (ft) 6916 / 6922
BH Choke Size (in) 15/16
Gauge Depth (ft)/Type 6890 / J-300

NET PIPE RECOVERY

Volume	Fluid Type	Properties
105 ft	Mud	300 ppm

NET SAMPLE CHAMBER RECOVERY

Volume	Fluid Type	Properties
07 ft3	Gas	
Trace	Mud	
Pressure: 88	GOR:	GLR:

INTERPRETATION RESULTS

Model of Behavior
Fluid Type Used for Analysis ..
Reservoir Pressure (psi)
Transmissibility (md-ft/cp)
Effective Permeability (md) ...
Skin Factor/Damage Ratio ...
Storativity ratio
Interporosity Flow Coeff
Distance To An Anomaly (ft) ..
Radius of Investigation (ft) ...
Potentiometric Surface (ft) ...

ROCK/FLUID/WELLBORE PROPERTIES

Oil API
Basic Solids
Gas Gravity
Water Cut (%)
Viscosity (cp)
Total Compressibility (1/psi) ..
Porosity (%) 10
Reservoir Temperature (F) 168

PRODUCTION RATE DURING TEST:

COMMENTS:

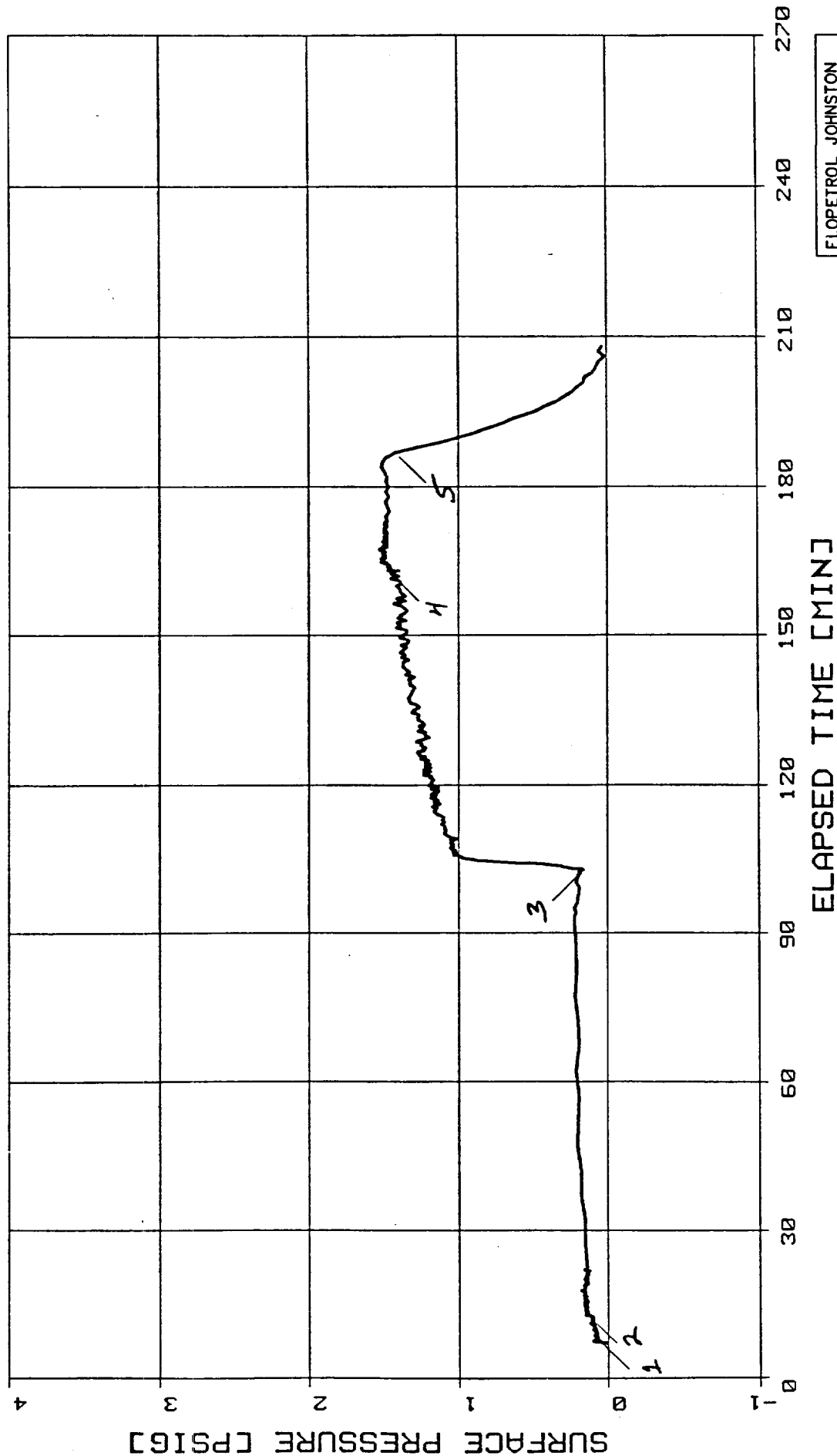
DST EVENT SUMMARY

Field Report # 47116E

DATE (M/D/Y)	TIME (HR:MIN)	EVENT E.T. (MIN)	EVENT DESCRIPTION	SURFACE PRESSURE (PSIG)	FLOOR MANIFOLD CHOKE SIZE (INCH)
11-29-84	640	—	SET PACKER		
	645	—	OPENED TEST TOOL FOR INITIAL FLOW	.07	Closed Chamber
			Teleflow indicated very little recovery		
	650	—	CLOSED TEST TOOL FOR INITIAL SHUT-IN	.15	"
	821		Finished shut in		"
	822	—	OPENED TEST TOOL FOR FINAL FLOW	.16	"
	922	—	CLOSED TEST TOOL FOR FINAL SHUT-IN	1.47	"
	1224	—	FINISHED FINAL SHUT-IN		
	1225	—	UNSEATED PACKER		
		—	REVERSED OUT		
		—	BEGAN TRIP OUT OF HOLE		

SURFACE PRESSURE LOG

FIELD REPORT NO. 47116E COMPANY : AMOCO PRODUCTION CO.
WELL : SALMAN RANCH B-1



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 • WELL TEST DATA PRINTOUT •

FIELD REPORT # : 47116E

INSTRUMENT # : *Teleflow*
 CAPACITY [PSI] : 5000.

COMPANY : AMOCO PRODUCTION CO.

WELL : SALMAN RANCH B-1

PORT OPENING : INSIDE

MNEMONICS : ET = ELAPSED TIME [MIN]
 PS = SURFACE PRESSURE [PSIG]

#	CODE	EXPLANATION	ET	PS
1	2	START FLOW	8.00	0.07
2	6	END FLOW & START SHUT-IN	13.25	0.15
3	8	END SHUT-IN & START FLOW	102.75	0.16
4	6	END FLOW & START SHUT-IN	163.17	1.47
5	31	OPENED ON SURFACE	187.00	1.42

ET	PS	ET	PS	ET	PS
6.92	0.00	11.50	0.10	16.08	0.15
7.00	0.00	11.58	0.09	16.17	0.16
7.08	0.01	11.67	0.09	16.25	0.16
7.17	0.00	11.75	0.10	16.33	0.14
7.25	0.01	11.83	0.10	16.42	0.16
7.33	0.08	11.92	0.10	16.50	0.14
7.42	0.04	12.00	0.11	16.58	0.15
7.50	0.10	12.08	0.09	16.67	0.15
7.58	0.05	12.17	0.11	16.75	0.16
7.67	0.09	12.25	0.09	16.83	0.16
7.75	0.08	12.33	0.09	16.92	0.15
7.83	0.06	12.42	0.11	17.00	0.16
7.92	0.08	12.50	0.11	17.08	0.15
8.00	0.07 #1	12.58	0.10	17.17	0.16
8.08	0.08	12.67	0.11	17.25	0.15
8.17	0.07	12.75	0.15	17.33	0.15
8.25	0.08	12.83	0.12	17.42	0.15
8.33	0.06	12.92	0.13	17.50	0.16
8.42	0.08	13.00	0.13	17.58	0.15
8.50	0.07	13.08	0.14	17.67	0.17
8.58	0.07	13.17	0.14	17.75	0.16
8.67	0.08	13.25	0.15 #2	17.83	0.18
8.75	0.09	13.33	0.13	17.92	0.16
8.83	0.08	13.42	0.15	18.00	0.16
8.92	0.08	13.50	0.13	18.08	0.15
9.00	0.08	13.58	0.14	18.17	0.16
9.08	0.07	13.67	0.15	18.25	0.16
9.17	0.08	13.75	0.15	18.33	0.15
9.25	0.07	13.83	0.15	18.42	0.15
9.33	0.08	13.92	0.14	18.50	0.16
9.42	0.08	14.00	0.15	18.58	0.16
9.50	0.08	14.08	0.15	18.67	0.15
9.58	0.07	14.17	0.14	18.75	0.16
9.67	0.09	14.25	0.15	18.83	0.16
9.75	0.08	14.33	0.15	18.92	0.16
9.83	0.08	14.42	0.13	19.00	0.15
9.92	0.10	14.50	0.15	19.08	0.13
10.00	0.09	14.58	0.15	19.17	0.14
10.08	0.09	14.67	0.14	19.25	0.14
10.17	0.09	14.75	0.16	19.33	0.15
10.25	0.08	14.83	0.15	19.42	0.14
10.33	0.09	14.92	0.14	19.50	0.14
10.42	0.09	15.00	0.15	19.58	0.13
10.50	0.09	15.08	0.16	19.67	0.15
10.58	0.09	15.17	0.16	19.75	0.15
10.67	0.10	15.25	0.15	19.83	0.15
10.75	0.09	15.33	0.16	19.92	0.14
10.83	0.09	15.42	0.14	20.00	0.15
10.92	0.09	15.50	0.13	20.08	0.16
11.00	0.11	15.58	0.14	20.17	0.15
11.08	0.10	15.67	0.14	20.25	0.13
11.17	0.12	15.75	0.14	20.33	0.14
11.25	0.10	15.83	0.15	20.42	0.15
11.33	0.10	15.92	0.14	20.50	0.14
11.42	0.10	16.00	0.14	20.58	0.14

ET	PS	ET	PS	ET	PS
.....					
20.67	0.15	102.83	0.17	107.42	1.05
20.75	0.13	102.92	0.18	107.50	1.05
20.83	0.14	103.00	0.19	107.58	1.03
20.92	0.14	103.08	0.17	107.67	1.04
21.00	0.13	103.17	0.24	107.75	1.05
21.08	0.14	103.25	0.26	107.83	1.03
21.17	0.13	103.33	0.27	107.92	1.04
21.25	0.14	103.42	0.28	108.00	1.04
21.33	0.14	103.50	0.31	108.08	1.04
21.42	0.14	103.58	0.31	108.17	1.03
21.50	0.14	103.67	0.31	108.25	1.04
21.58	0.14	103.75	0.34	108.33	1.05
21.67	0.14	103.83	0.36	108.42	1.05
21.75	0.14	103.92	0.41	108.50	1.04
21.83	0.12	104.00	0.42	108.58	1.05
21.92	0.15	104.08	0.44	108.67	1.04
22.00	0.16	104.17	0.53	108.75	1.04
22.08	0.14	104.25	0.59	108.83	1.04
27.08	0.15	104.33	0.64	108.92	1.05
32.08	0.15	104.42	0.69	109.00	1.05
37.08	0.18	104.50	0.74	109.25	1.01
42.08	0.18	104.58	0.78	109.50	1.05
47.08	0.20	104.67	0.82	109.75	1.06
52.08	0.20	104.75	0.85	110.00	1.08
57.08	0.19	104.83	0.89	110.25	1.09
62.08	0.21	104.92	0.88	110.50	1.09
67.08	0.19	105.00	0.91	110.75	1.08
72.08	0.20	105.08	0.94	111.00	1.08
77.08	0.22	105.17	0.97	111.25	1.09
82.08	0.21	105.25	0.96	111.50	1.09
87.08	0.21	105.33	0.96	111.75	1.09
92.17	0.22	105.42	0.98	112.00	1.10
93.17	0.22	105.50	0.98	112.25	1.11
94.17	0.21	105.58	0.98	112.50	1.09
95.17	0.22	105.67	1.00	112.75	1.09
96.17	0.20	105.75	1.01	113.00	1.11
97.17	0.20	105.83	1.00	113.25	1.10
98.17	0.19	105.92	1.03	113.50	1.09
99.17	0.19	106.00	1.02	113.75	1.11
100.17	0.21	106.08	1.01	114.00	1.12
101.17	0.20	106.17	1.01	114.25	1.14
101.67	0.19	106.25	1.01	114.50	1.15
101.75	0.19	106.33	1.03	114.75	1.16
101.83	0.20	106.42	1.03	115.00	1.16
101.92	0.19	106.50	1.04	115.25	1.15
102.00	0.18	106.58	1.03	115.50	1.14
102.08	0.18	106.67	1.02	115.75	1.17
102.17	0.18	106.75	1.03	116.00	1.16
102.25	0.19	106.83	1.02	116.25	1.12
102.33	0.18	106.92	1.02	116.50	1.14
102.42	0.19	107.00	1.04	116.75	1.16
102.50	0.18	107.08	1.04	117.00	1.13
102.58	0.18	107.17	1.05	117.25	1.15
102.67	0.19	107.25	1.04	117.50	1.18
102.75	0.16	107.33	1.05	117.75	1.15

ET	PS	ET	PS	ET	PS
.....					
118.00	1.14	131.75	1.26	159.00	1.39
118.25	1.18	132.00	1.22	159.50	1.39
118.50	1.16	132.50	1.24	160.00	1.41
118.75	1.13	133.00	1.27	160.50	1.38
119.00	1.13	133.50	1.27	161.00	1.39
119.25	1.18	134.00	1.26	161.50	1.45
119.50	1.13	134.50	1.31	162.00	1.39
119.75	1.17	135.00	1.30	162.50	1.45
120.00	1.20	135.50	1.26	163.00	1.43
120.25	1.17	136.00	1.27	163.08	1.39
120.50	1.18	136.50	1.32	163.17	1.47
120.75	1.17	137.00	1.33	163.25	1.45
121.00	1.16	137.50	1.33	163.33	1.46
121.25	1.17	138.00	1.32	163.42	1.45
121.50	1.19	138.50	1.31	163.50	1.45
121.75	1.17	139.00	1.30	163.58	1.45
122.00	1.23	139.50	1.29	163.67	1.45
122.25	1.20	140.00	1.32	163.75	1.45
122.50	1.23	140.50	1.32	163.83	1.47
122.75	1.18	141.00	1.33	163.92	1.47
123.00	1.23	141.50	1.29	164.00	1.46
123.25	1.22	142.00	1.35	164.08	1.45
123.50	1.18	142.50	1.32	164.17	1.46
123.75	1.22	143.00	1.35	164.25	1.46
124.00	1.22	143.50	1.37	164.33	1.47
124.25	1.18	144.00	1.37	164.42	1.47
124.50	1.22	144.50	1.37	164.50	1.49
124.75	1.21	145.00	1.33	164.58	1.47
125.00	1.19	145.50	1.38	164.67	1.47
125.25	1.25	146.00	1.35	164.75	1.49
125.50	1.23	146.50	1.39	164.83	1.51
125.75	1.21	147.00	1.37	164.92	1.50
126.00	1.26	147.50	1.34	165.00	1.51
126.25	1.26	148.00	1.38	165.08	1.49
126.50	1.27	148.50	1.33	165.17	1.50
126.75	1.27	149.00	1.33	165.25	1.50
127.00	1.22	149.50	1.39	165.33	1.50
127.25	1.24	150.00	1.37	165.42	1.49
127.50	1.21	150.50	1.34	165.50	1.51
127.75	1.23	151.00	1.34	165.58	1.50
128.00	1.25	151.50	1.41	165.67	1.50
128.25	1.24	152.00	1.38	165.75	1.48
128.50	1.26	152.50	1.41	165.83	1.50
128.75	1.28	153.00	1.35	165.92	1.50
129.00	1.25	153.50	1.40	166.00	1.49
129.25	1.22	154.00	1.39	166.08	1.50
129.50	1.19	154.50	1.36	166.17	1.48
129.75	1.22	155.00	1.34	166.25	1.49
130.00	1.21	155.50	1.36	166.33	1.50
130.25	1.23	156.00	1.38	166.42	1.49
130.50	1.21	156.50	1.43	166.50	1.50
130.75	1.27	157.00	1.35	166.58	1.50
131.00	1.25	157.50	1.41	166.67	1.49
131.25	1.24	158.00	1.35	166.75	1.49
131.50	1.23	158.50	1.38	166.83	1.49

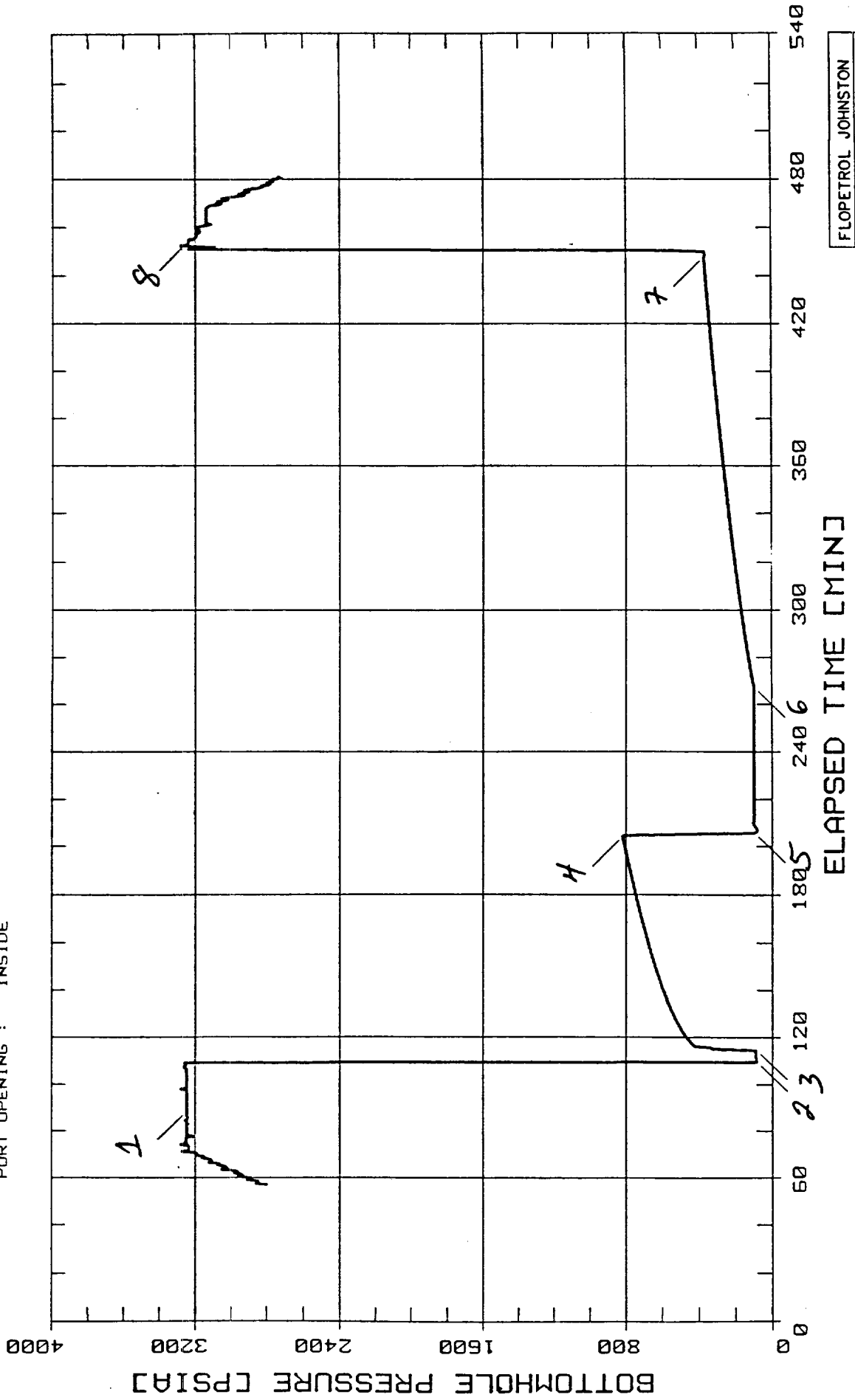
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ET	PS	ET	PS	ET	PS
.....					
166.92	1.48	170.00	1.49	173.00	1.47
167.00	1.50	170.08	1.48	174.00	1.48
167.08	1.51	170.17	1.47	175.00	1.46
167.17	1.51	170.25	1.48	176.00	1.47
167.25	1.51	170.33	1.47	177.00	1.48
167.33	1.52	170.42	1.48	178.00	1.46
167.42	1.49	170.50	1.48	179.00	1.48
167.50	1.52	170.58	1.47	180.00	1.46
167.58	1.50	170.67	1.47	181.00	1.48
167.67	1.50	170.75	1.47	182.00	1.47
167.75	1.51	170.83	1.49	183.00	1.49
167.83	1.49	170.92	1.48	184.00	1.51
167.92	1.47	171.00	1.47	185.00	1.50
168.00	1.50	171.08	1.48	186.00	1.48
168.08	1.49	171.17	1.48	187.00	1.42
168.17	1.49	171.25	1.49	188.00	1.28
168.25	1.48	171.33	1.49	189.00	1.12
168.33	1.47	171.42	1.49	190.00	1.00
168.42	1.49	171.50	1.48	191.00	0.88
168.50	1.49	171.58	1.49	192.00	0.78
168.58	1.48	171.67	1.48	193.00	0.68
168.67	1.48	171.75	1.48	194.00	0.60
168.75	1.48	171.83	1.48	195.00	0.49
168.83	1.47	171.92	1.48	196.00	0.42
168.92	1.48	172.00	1.48	197.00	0.34
169.00	1.50	172.08	1.47	198.00	0.29
169.08	1.48	172.17	1.49	199.00	0.23
169.17	1.48	172.25	1.48	200.00	0.20
169.25	1.47	172.33	1.49	201.00	0.15
169.33	1.47	172.42	1.49	202.00	0.15
169.42	1.47	172.50	1.49	203.00	0.09
169.50	1.48	172.58	1.48	204.00	0.07
169.58	1.48	172.67	1.49	205.00	0.05
169.67	1.49	172.75	1.48	206.00	0.01
169.75	1.48	172.83	1.48	207.00	0.05
169.83	1.47	172.92	1.49	208.00	0.03
169.92	1.47				

#5

BOTTOMHOLE PRESSURE LOG

FIELD REPORT NO. 47116E COMPANY : AMOCO PRODUCTION CO.
INSTRUMENT NO. J300-2066 WELL : SALMAN RANCH B-1
DEPTH : 6795 FT
CAPACITY : 10000 PSI
PORT OPENING : INSIDE



ΔT (MIN)

HORNER PLOT

FIELD REPORT NO. 47116E
INSTRUMENT NO. J300-2066

COMPANY : AMOCO PRODUCTION CO.

WELL : SALMAN RANCH B-1

SHUTIN #1 : FINAL FLOW PRESSURE: 84.75 PSIA

PLOT ELAPSED TIME RANGE: 115.0 TO 204.0 MIN

PLOT ΔT TIME RANGE: 0.5 TO 89.5 MIN

PRODUCING TIME (T_P): 5.0 MIN

SHUTIN PRESSURE [PSIA]

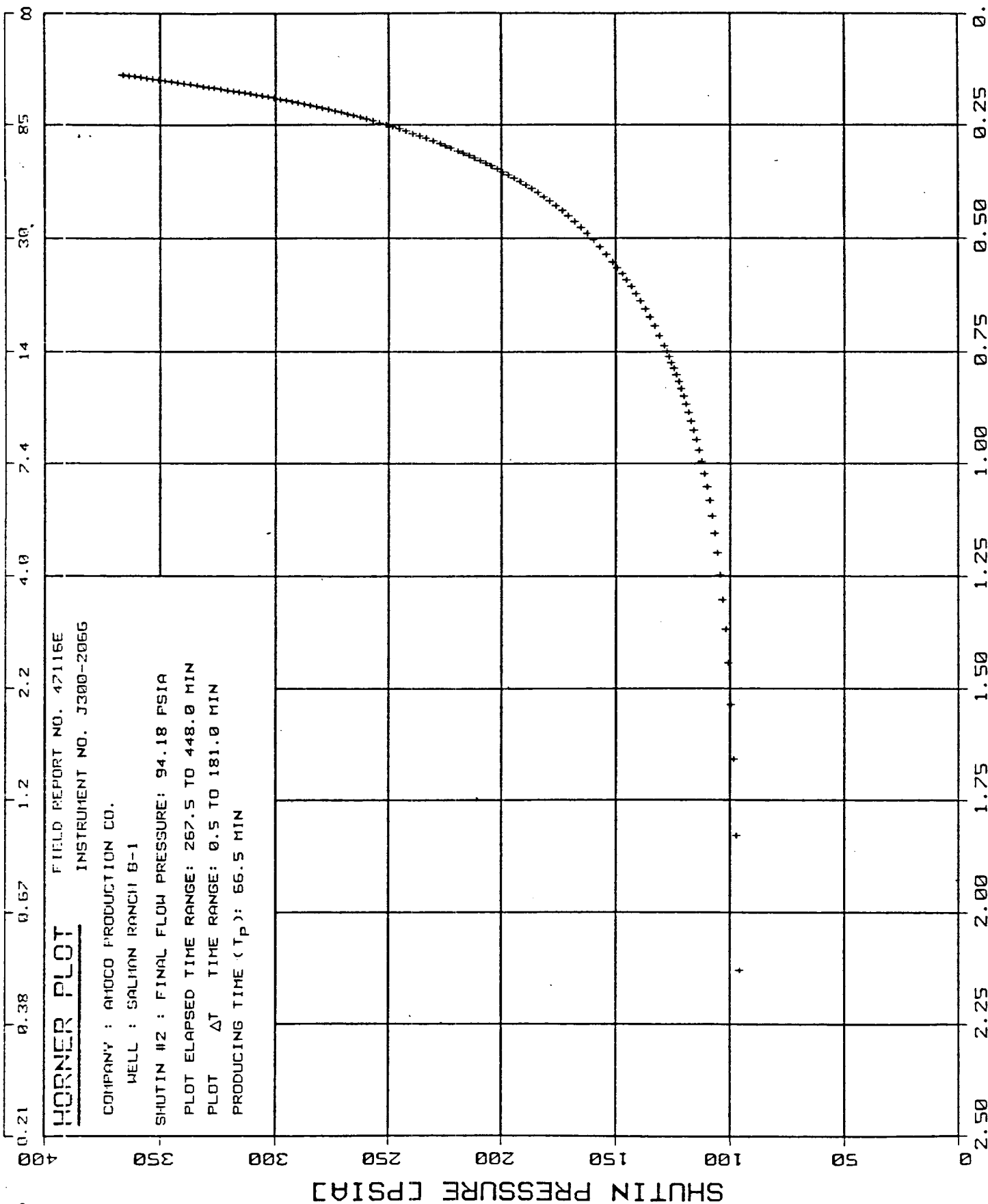
1.50 1.35 1.20 1.05 0.90 0.75 0.60 0.45 0.30 0.15 0.00

$\text{LOG} \left[\frac{T_P + \Delta T}{\Delta T} \right]$

FLOPETROL JOHNSTON

See Appendix

ΔT (MIN)

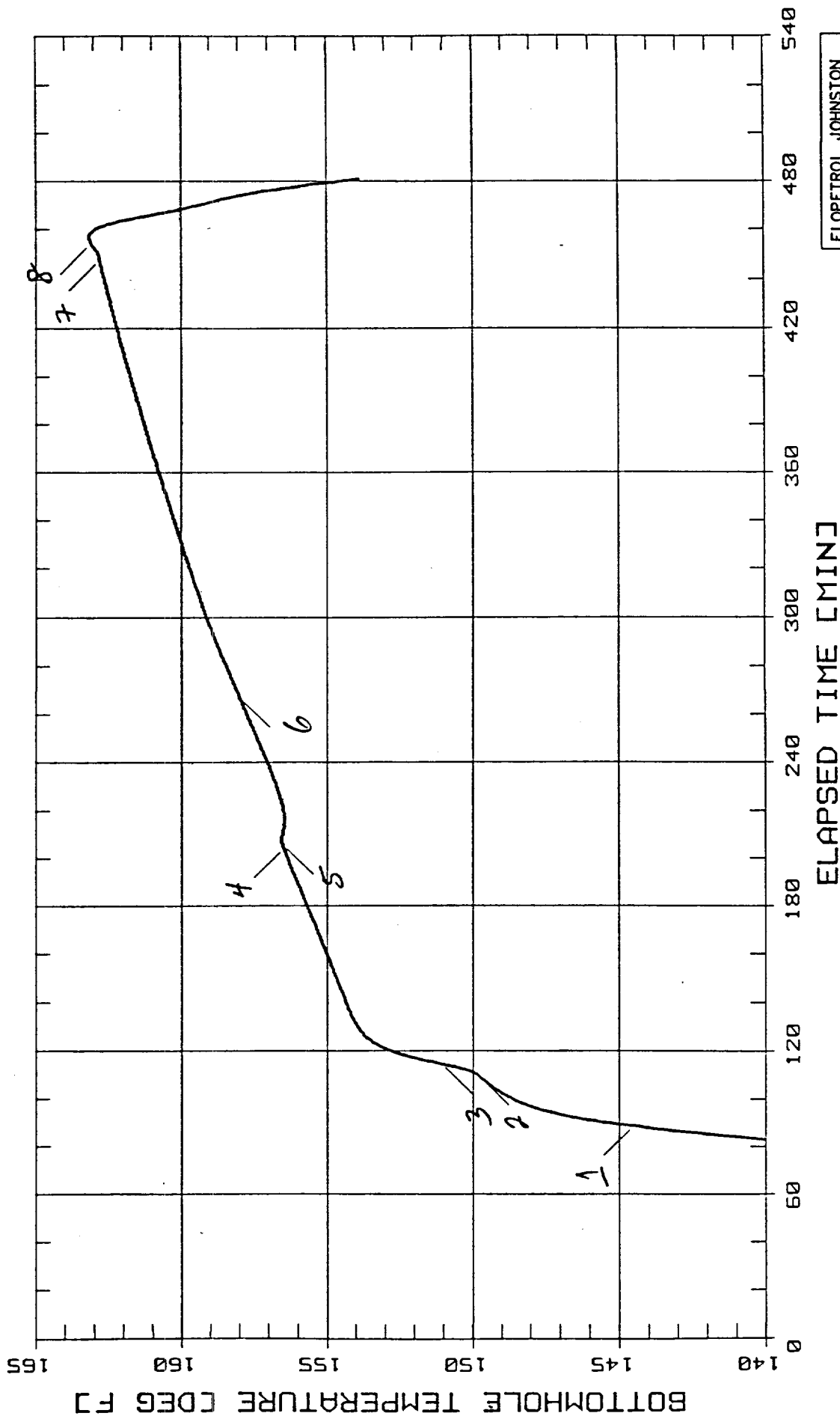


FLOPETROL JOHNSTON

LOG $\left[\frac{T_P + \Delta T}{\Delta T} \right]$

BOTTOMHOLE TEMPERATURE LOG

FIELD REPORT NO. 47116E COMPANY : AMOCO PRODUCTION CO.
INSTRUMENT NO. J300-2066 WELL : SALMAN RANCH B-1
DEPTH : 6295 FT



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 • WELL TEST DATA PRINTOUT •

FIELD REPORT # : 47116E

INSTRUMENT # : J300-2066

COMPANY : AMOCO PRODUCTION CO.

CAPACITY [PSI] : 10000.

WELL : SALMAN RANCH B-1

DEPTH [FT] : 6795.0

PORT OPENING : INSIDE

LABEL POINT INFORMATION

	TIME OF DAY	DATE		ELAPSED TIME, MIN	BOT HOLE PRESSURE PSIA	BOT HOLE TEMP. DEG F
#	HH:MM:SS	DD-MM	EXPLANATION			
1	6:24:30	29	NO HYDROSTATIC MUD	88.50	3245.6	144.5
2	6:45:30	29	NO START FLOW	109.50	81.0	149.8
3	6:50:30	29	NO END FLOW & START SHUT-IN	114.50	84.8	151.1
4	8:20:00	29	NO END SHUT-IN	204.00	817.0	156.4
5	8:21:30	29	NO START FLOW	205.50	92.6	156.5
6	9:23:00	29	NO END FLOW & START SHUT-IN	267.00	94.2	158.0
7	12:24:00	29	NO END SHUT-IN	448.00	367.3	162.8
8	12:30:30	29	NO HYDROSTATIC MUD	454.50	3236.4	163.1

SUMMARY OF FLOW PERIODS

	START ELAPSED TIME, MIN	END ELAPSED TIME, MIN	DURATION MIN	START PRESSURE PSIA	END PRESSURE PSIA
1	109.50	114.50	5.00	81.0	84.8
2	205.50	267.00	61.50	92.6	94.2

SUMMARY OF SHUTIN PERIODS

	START ELAPSED TIME, MIN	END ELAPSED TIME, MIN	DURATION MIN	START PRESSURE PSIA	END PRESSURE PSIA	FINAL FLOW PRESSURE PSIA	PRODUCING TIME, MIN
1	114.50	204.00	89.50	84.8	817.0	84.8	5.00
2	267.00	448.00	181.00	94.2	367.3	94.2	66.50

TEST PHASE : FLOW PERIOD # 1

TIME OF DAY	DATE	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA
6:45:30	29-NO	109.50	0.00	149.8	81.0
6:50:30	29-NO	114.50	5.00	151.1	84.8

TEST PHASE : SHUTIN PERIOD # 1

FINAL FLOW PRESSURE [PSIA] = 84.8
PRODUCING TIME [MIN] = 5.00

TIME OF DAY	DATE	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
6:50:30	29-NO	114.50	0.00	151.1	84.8	0.0	
6:51:30	29-NO	115.50	1.00	151.4	338.7	254.0	0.778
6:52:30	29-NO	116.50	2.00	151.8	427.9	343.1	0.544
6:53:30	29-NO	117.50	3.00	152.1	440.4	355.7	0.426
6:54:30	29-NO	118.50	4.00	152.4	451.8	367.1	0.352
6:55:30	29-NO	119.50	5.00	152.7	462.2	377.5	0.301
6:56:30	29-NO	120.50	6.00	152.9	471.7	387.0	0.263
6:57:30	29-NO	121.50	7.00	153.1	480.6	395.9	0.234
6:58:30	29-NO	122.50	8.00	153.2	489.0	404.2	0.211
6:59:30	29-NO	123.50	9.00	153.4	497.0	412.2	0.192
7: 0:30	29-NO	124.50	10.00	153.5	504.5	419.7	0.176
7: 2:30	29-NO	126.50	12.00	153.7	518.8	434.0	0.151
7: 4:30	29-NO	128.50	14.00	153.9	531.8	447.0	0.133
7: 6:30	29-NO	130.50	16.00	153.9	543.5	458.7	0.118
7: 8:30	29-NO	132.50	18.00	154.0	554.9	470.1	0.106
7:10:30	29-NO	134.50	20.00	154.1	565.5	480.8	0.097
7:12:30	29-NO	136.50	22.00	154.2	575.7	491.0	0.089
7:14:30	29-NO	138.50	24.00	154.3	585.7	501.0	0.082
7:16:30	29-NO	140.50	26.00	154.4	595.5	510.7	0.076
7:18:30	29-NO	142.50	28.00	154.4	604.8	520.0	0.071
7:20:30	29-NO	144.50	30.00	154.5	613.8	529.1	0.067
7:25:30	29-NO	149.50	35.00	154.6	635.2	550.5	0.058
7:30:30	29-NO	154.50	40.00	154.8	655.3	570.6	0.051
7:35:30	29-NO	159.50	45.00	155.0	674.7	589.9	0.046
7:40:30	29-NO	164.50	50.00	155.2	692.7	608.0	0.041
7:45:30	29-NO	169.50	55.00	155.3	710.3	625.5	0.038
7:50:30	29-NO	174.50	60.00	155.5	727.2	642.4	0.035
7:55:30	29-NO	179.50	65.00	155.7	743.6	658.8	0.032
8: 0:30	29-NO	184.50	70.00	155.8	759.4	674.6	0.030
8: 5:30	29-NO	189.50	75.00	156.0	774.8	690.1	0.028
8:10:30	29-NO	194.50	80.00	156.2	789.5	704.8	0.026
8:15:30	29-NO	199.50	85.00	156.3	804.2	719.5	0.025
8:20: 0	29-NO	204.00	89.50	156.4	817.0	732.3	0.024

TEST PHASE : FLOW PERIOD # 2

TIME OF DAY	DATE	ELAPSED TIME, MIN	DELTA TIME, MIN	TEMP. DEG F	BOT HOLE PRESSURE PSIA
8:21:30	29-NO	205.50	0.00	156.5	92.6
8:26:30	29-NO	210.50	5.00	156.5	93.3
8:31:30	29-NO	215.50	10.00	156.4	93.3
8:36:30	29-NO	220.50	15.00	156.5	93.6
8:41:30	29-NO	225.50	20.00	156.6	93.9
8:46:30	29-NO	230.50	25.00	156.7	94.0
8:51:30	29-NO	235.50	30.00	156.9	94.0
8:56:30	29-NO	240.50	35.00	157.0	94.1
9: 1:30	29-NO	245.50	40.00	157.2	94.1
9: 6:30	29-NO	250.50	45.00	157.4	94.2
9:11:30	29-NO	255.50	50.00	157.6	94.3
9:16:30	29-NO	260.50	55.00	157.7	94.3
9:21:30	29-NO	265.50	60.00	157.9	94.3
9:23: 0	29-NO	267.00	61.50	158.0	94.2

TEST PHASE : SHUTIN PERIOD # 2

FINAL FLOW PRESSURE [PSIA] = 94.2

PRODUCING TIME [MIN] = 66.50

TIME OF DAY	DATE	ELAPSED TIME, MIN	DELTA TIME, MIN	TEMP. DEG F	BOT HOLE PRESSURE PSIA	LOG DELTA P PSI	HORNER TIME
9:23: 0	29-NO	267.00	0.00	158.0	94.2	0.0	
9:24: 0	29-NO	268.00	1.00	158.0	96.8	2.6	1.829
9:25: 0	29-NO	269.00	2.00	158.0	99.3	5.1	1.535
9:26: 0	29-NO	270.00	3.00	158.1	101.7	7.5	1.365
9:27: 0	29-NO	271.00	4.00	158.1	104.1	9.9	1.246
9:28: 0	29-NO	272.00	5.00	158.1	106.4	12.3	1.155
9:29: 0	29-NO	273.00	6.00	158.2	108.8	14.6	1.082
9:30: 0	29-NO	274.00	7.00	158.2	111.0	16.8	1.021
9:31: 0	29-NO	275.00	8.00	158.2	113.3	19.1	0.969
9:32: 0	29-NO	276.00	9.00	158.3	115.6	21.4	0.924
9:33: 0	29-NO	277.00	10.00	158.3	117.9	23.7	0.884
9:35: 0	29-NO	279.00	12.00	158.4	122.2	28.0	0.816
9:37: 0	29-NO	281.00	14.00	158.5	126.5	32.3	0.760
9:39: 0	29-NO	283.00	16.00	158.5	130.7	36.6	0.712
9:41: 0	29-NO	285.00	18.00	158.6	134.9	40.7	0.672
9:43: 0	29-NO	287.00	20.00	158.7	139.0	44.8	0.636
9:45: 0	29-NO	289.00	22.00	158.8	143.0	48.8	0.605
9:47: 0	29-NO	291.00	24.00	158.8	147.0	52.8	0.576
9:49: 0	29-NO	293.00	26.00	158.9	150.9	56.7	0.551
9:51: 0	29-NO	295.00	28.00	158.9	154.6	60.4	0.528
9:53: 0	29-NO	297.00	30.00	159.0	158.3	64.1	0.507
9:58: 0	29-NO	302.00	35.00	159.2	167.4	73.3	0.462
10: 3: 0	29-NO	307.00	40.00	159.3	176.4	82.2	0.425
10: 8: 0	29-NO	312.00	45.00	159.5	185.2	91.0	0.394

TEST PHASE : SHUTIN PERIOD # 2

FINAL FLOW PRESSURE [PSIA] = 94.2

PRODUCING TIME [MIN] = 66.50

TIME OF DAY	DATE	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
MM:MM:SS	DD-MM	TIME, MIN	TIME, MIN	DEG F	PSIA	PSI	TIME
10:13:00	29-NO	317.00	50.00	159.6	193.8	99.7	0.367
10:18:00	29-NO	322.00	55.00	159.7	202.3	108.1	0.344
10:23:00	29-NO	327.00	60.00	159.9	210.5	116.3	0.324
10:28:00	29-NO	332.00	65.00	160.0	218.6	124.4	0.306
10:33:00	29-NO	337.00	70.00	160.2	226.5	132.3	0.290
10:38:00	29-NO	342.00	75.00	160.3	234.2	140.1	0.276
10:43:00	29-NO	347.00	80.00	160.4	241.8	147.7	0.263
10:48:00	29-NO	352.00	85.00	160.6	249.2	155.0	0.251
10:53:00	29-NO	357.00	90.00	160.7	256.5	162.3	0.240
10:58:00	29-NO	362.00	95.00	160.8	263.6	169.5	0.230
11:03:00	29-NO	367.00	100.00	161.0	270.7	176.5	0.221
11:08:00	29-NO	372.00	105.00	161.1	277.6	183.4	0.213
11:13:00	29-NO	377.00	110.00	161.2	284.4	190.2	0.205
11:18:00	29-NO	382.00	115.00	161.3	291.0	196.8	0.198
11:23:00	29-NO	387.00	120.00	161.4	297.5	203.4	0.191
11:28:00	29-NO	392.00	125.00	161.6	304.0	209.8	0.185
11:33:00	29-NO	397.00	130.00	161.7	310.3	216.1	0.179
11:38:00	29-NO	402.00	135.00	161.8	316.5	222.4	0.174
11:43:00	29-NO	407.00	140.00	161.9	322.4	228.3	0.169
11:48:00	29-NO	412.00	145.00	162.0	328.4	234.2	0.164
11:53:00	29-NO	417.00	150.00	162.1	334.2	240.1	0.159
11:58:00	29-NO	422.00	155.00	162.2	340.0	245.8	0.155
12:03:00	29-NO	427.00	160.00	162.3	345.5	251.3	0.151
12:08:00	29-NO	432.00	165.00	162.5	350.9	256.7	0.147
12:13:00	29-NO	437.00	170.00	162.6	356.0	261.8	0.143
12:18:00	29-NO	442.00	175.00	162.7	361.1	266.9	0.140
12:23:00	29-NO	447.00	180.00	162.8	366.3	272.1	0.137
12:24:00	29-NO	448.00	181.00	162.8	367.3	273.1	0.136

