



WATER-RIGHT DOCKET

Buffalo National River

Docket No: 27

ERBIE WELL

Supporting Hydro Data

08-11-1980: rawdown data; erbie well; august 11, 1980

Location: Erbie Well
Date: 8-11-80
Observers: Christensen

DRAWDOWN DATA

<u>Clock Time</u> <u>(hour)</u>	<u>Pumping Time</u> <u>(min)</u>	<u>Water Level</u> <u>BTC (feet)</u>	<u>Drawdown</u> <u>(feet)</u>	<u>Specific</u> <u>Capacity</u>	<u>Remarks</u>
1425	0	113.21	0		SWL
	1	118.42	5.21		BP=16 psi
	2	123.04	9.83		
	3	127.42	14.21		
	4	131.58	18.37		
	5	135.50	22.29		Hydrogen Sulfide Smell
	6	139.33	26.12		
	7	143.04	29.83		
	8	146.79	33.58		
	9	150.50	37.29		BP=14 psi
1435	10	153.58	40.37	0.19	Q=7.83 gpm (3 gal/23 sec)
	12	160.29	47.08		
	14	166.42	53.21		
	16	172.17	58.96		
1445	20	182.58	69.37		Q=7.20 gpm (3 gal/25 sec)
	25	194.50	81.29		
	30	204.38	91.17		BP=13 psi
	35	213.63	100.42		Q=7.50 gpm (3 gal/24 sec)
	40	221.83	108.62		
	45	229.25	116.04		
1515	50	236.00	122.79		
	55	241.00	127.79		BP=13 psi
1525	60	247.17	133.96		Q=7.50 gpm (3 gal/24 sec)
1530	65	252.83	139.62		
1535	70	257.50	144.29		
1540	75	261.83	148.62		BP=12 psi (3 gal/25 sec)
					Q=7.20 gpm
1545	80	266.00	152.79		
1550	85	270.08	156.87		
1555	90	272.79	159.58	0.04	Q=6.92 gpm (3 gal/26 sec)
					BP=12 psi

Location: Erbie Well
 Date: 8-11-80
 Observers: Christensen

RECOVERY DATA

<u>Clock Time</u> <u>(hour)</u>	<u>Time, Pump Start</u> <u>(t, min)</u>	<u>Time, Pump Stop</u> <u>(t', min)</u>	<u>Ratio</u> <u>(t/t')</u>	<u>Water Level</u> <u>(BTC, ft.)</u>	<u>Residual</u> <u>Drawdown</u>	<u>Calculated</u> <u>Recovery</u>
1555	90	0	-	272.79	-	
	92	2	46.0	265.50	152.29	
1600	95	5	19.0	254.67	141.46	
	97	7	13.9	247.50	134.29	
	98	8	12.3	244.92	131.71	
	99	9	11.0	241.83	128.62	
	103	13	7.92	231.25	118.04	
	107	17	6.29	221.17	107.96	
	110	20	5.50	214.38	101.17	
1620	115	25	4.60	203.92	90.71	
	120	30	4.00	196.25	83.04	
1630	125	35	3.57	189.21	76.00	
	130	40	3.25	182.83	69.62	
1640	135	45	3.00	178.92	65.71	
	140	50	2.80	171.08	57.87	
	150	60	2.50	163.83	50.62	

Location: Erbie Well
 Date: Aug 11, 1980
 Observers: Christensen

DRAWDOWN DATA

Clock Time (hour)	Pumping Time (min)	Water Level BTC (feet)	Drawdown (feet)	Specific Capacity	Remarks
1425	0	113.21	0	—	S.W.L.
	1	118.42	5.21		BP=16psi
	2	123.04	9.83		
	3	127.42	14.21		
	4	131.58	18.37		
	5	135.50	22.29		Hydrogen Sulfide smell
	6	139.33	26.12		
	7	143.04	29.83		
	8	146.79	33.58		
	9	150.50	37.29		BP=14 psi
1435	10	153.58	40.37	0.19	Q = 7.83 gpm (3 gal/23 sec)
	12	160.29	47.08		
	14	166.42	53.21		
	16	172.17	58.96		
1445	20	182.58	69.37		Q = 7.20 gpm (3 gal/25 sec)

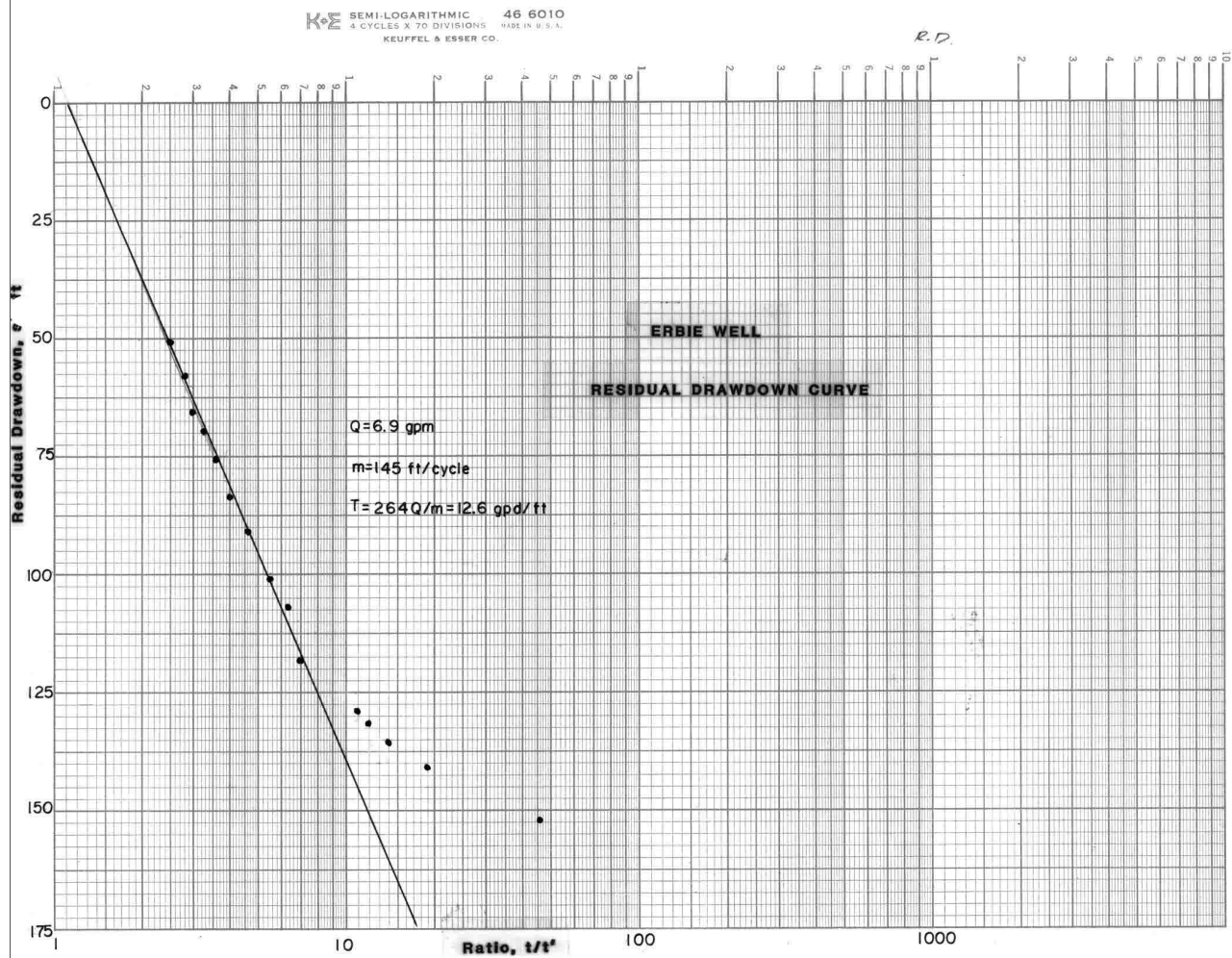
Location: ERBIE WELL
 Date: AUGUST 11, 1980
 Observers: CHRISTENSEN

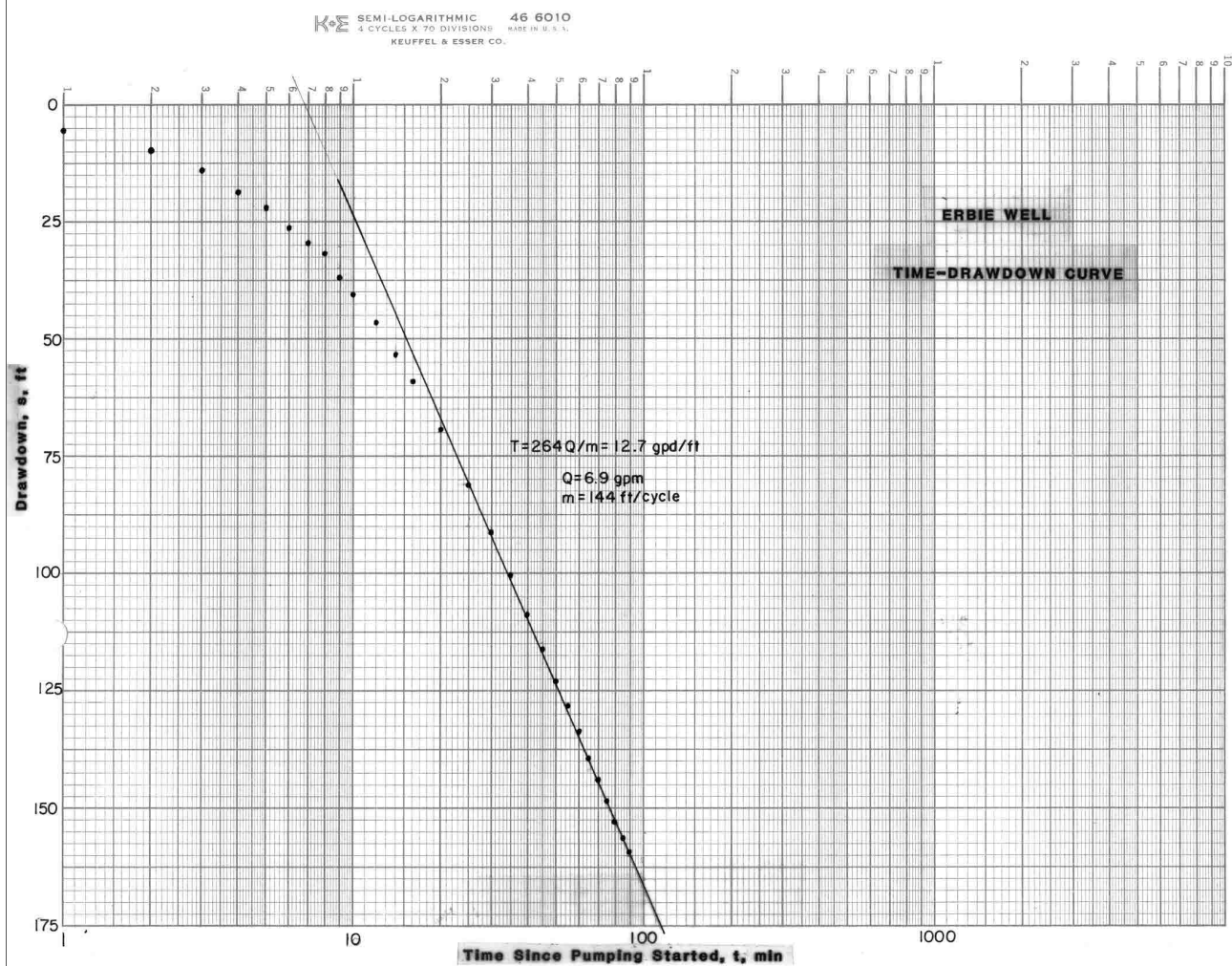
(CONTINUED)
DRAWDOWN DATA

Clock Time (hour)	Pumping Time (min)	Water Level BTC (feet)	Drawdown (feet)	Specific Capacity	Remarks
	25	194.50	81.29		
	30	204.38	91.17		BP=13psi
	35	213.63	100.42		Q = 7.50 gpm (3 gal/24 sec)
	40	221.83	108.62		
	45	229.25	116.04		
1515	50	236.00	122.79		
	55	241.00	127.79		BP=13psi
1525	60	247.17	133.96		Q = 7.50 gpm (3 gal/24 sec)
1530	65	252.83	139.62		
1535	70	257.50	144.29		
1540	75	261.83	148.62		BP=12psi (3 gal/25 sec) Q = 7.20 gpm
1545	80	266.00	152.79		
1550	85	270.00	156.87		
1555	90	272.79	159.58	0.04	Q = 6.92 gpm (3 gal/26 sec) BP = 12 psi

Location: **ERBIE WELL**
 Date: **AUGUST 11, 1981**
 Observer: **CHRISTENSEN**

RECOVERY DATA						
Clock Time (hour)	Time, Pump Start (t, min)	Time, Pump Stop (t', min)	Ratio (t/t')	Water Level (BTC, ft.)	RESIDUAL DRAWDOWN Drawdown from Pumping Curve	Calculated Recovery
1555	90	0	—	272.79	—	
	92	2	46.0	265.50	152.29 _v	
1600	95	5	19.0	254.67	141.46 _v	
	97	7	13.9	247.50	134.29 _v	
	98	8	12.3	244.92	131.71 _v	
	99	9	11.0	241.83	128.62 _v	
	103	13	7.92	231.25	118.04 _v	
	107	17	6.29	221.17	107.96 _v	
	110	20	5.50	214.38	101.17 _v	
1620	115	25	4.60	203.92	90.71 _v	
	120	30	4.00	196.25	83.04 _v	
1630	125	35	3.57	189.21	76.00 _v	
	130	40	3.25	182.83	69.62 _v	
1640	135	45	3.00	178.92	65.71 _v	
	140	50	2.80	171.08	57.87	
	150	60	2.50	163.83	50.62	





Docket Information

Number of Documents in Docket 7

Documents Dated from 8/11/1980 to 8/11/1980

Docket Compiled: 2/1/2011