

Coal Stop test
AQUIFER TEST DATA

Sheet 1/7

Test by Coddington

Observation Well Number _____
Pumped Well Number _____
Original Water Depth 803.1

Date	Hour	t (min)	t' (min)	t/t'	Water Depth	S (ft)	ΔS	S'	Q	Remarks
14 Jan.	1412	0.5			822	18.9				
		1.0			850	46.9				
		1.67			862	58.9				
		2.0			867	63.9				
		2.5			869.5	66.4				
		4.0			861.2	58.1				
		7.5			826.6	23.5				
		10			817.7	14.6			25 gpm	
		14			814.9	11.8				
		20.5			813.5	10.4			21 gpm	

t = time since pumping began

t' = time since pumping stopped

S = drawdown

$\Delta S = S^2/2b$

b = thickness of screened interval

S' = S - ΔS = drawdown corrected for unconfined conditions.

Q = well discharge

Coal Step test
 AQUIFER TEST DATA
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Test by Coddington

Observation Well Number _____
 Pumped Well Number _____
 Original Water Depth _____

Date	Hour	t (min)	t' (min)	t/t'	Water Depth	S (ft)	ΔS	S'	Q	Remarks
14 Jan		28			812.1	9.0			21	measured by
		44			811.3	8.2			19	timing filling of
		56			811.0	7.9				10 gal bucket
		88			810.7	7.6			19	
		118			810.4	7.3			.17	
		120			810.4	7.3				
		120.83	0.83		820.8	17.7				
		121.83	1.83		826.6	23.5				
		122.5	2.5		828.2	25.1				
		123.5	3.5		829.2	26.1				

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- Q = well discharge

Cool stop test
AQUIFER TEST DATA
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Test by Coddington

Observation Well Number _____
Pumped Well Number _____
Original Water Depth _____

Date	Hour	t (min)	t' (min)	t/t'	Water Depth	S (ft)	ΔS	S'	Q	Remarks
1A Jan.		125	5		829.7	26.6				
		127	7		830.6	27.5				
		130	10		833.3	30.2			60	Q measured by
		135	15		833.3	30.2				timing filling of
		143.5	23.5		831.4	28.3			60	10 gal bucket.
		159	39		831.3	28.2				Confirmed closely (59 gpm) with
		180	60		834.5	31.4			60	orifice + manometer.
		205	85		834.6	31.5				42 gpm by meter
		240	120		834.2	31.1				
		240.67	0.67		838.7	35.6				start stop 3

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Q = well discharge

Coal Step test
AQUIFER TEST DATA
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Test by Coddington

Observation Well Number _____
Pumped Well Number _____
Original Water Depth _____

Date	Hour	t (min)	t' (min)	t/t'	Water Depth	S (ft)	ΔS	S'	Q	Remarks
14 Jan.		241.75	1.75		843.3	40.2			62	meter
		242.5	2.5		845.0	41.9			82	surface* (water meter)
		244.75	4.75		847.7	44.6				
		246	6		848.4	45.3				
		248	8		848.6	45.5				
		252	12		848.6	45.5				
		262	22		846.3	43.2				
		277	37		844.4	41.3				
		303	63		843.4	40.3				
		329	89		843.5	40.4				

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- Q = well discharge

Coal Step test
AQUIFER TEST DATA
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Test by Coodington

Observation Well Number _____
Pumped Well Number _____
Original Water Depth _____

Date	Hour	t (min)	t' (min)	t/t'	Water Depth	S (ft)	ΔS	S'	Q	Remarks
14 Jan.		360	120		843.3	40.2				Start step A.
		360.58	0.58		850.0	46.9			111	111 gpm orifice
		360.92	0.92		853.9	50.8			100	100 gpm meter
		361.67	1.67		859.4	56.3				
		362.25	2.25		862.2	59.1				
		363.5	3.5		865.9	62.8				
		365	5		867.6	64.5				
		367	7		868.7	65.6				
		370	10		869.2	66.1				
		375	15		869.4	66.3				

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t' = time since pumping stopped
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Q = well discharge

Coal Step test
AQUIFER TEST DATA
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Test by Caddington

Observation Well Number _____
Pumped Well Number _____
Original Water Depth _____

Date	Hour	t (min)	t' (min)	t/t'	Water Depth	S (ft)	ΔS	S'	Q	Remarks
14 Jan 81		382	22		869.5	66.4				
		396	36		869.5	66.4				
		419	59		884.9 ⁷	81.8				probably misread probe.
		443	83		869.3	66.2				
		480	120		869.3	66.2				
		480.92	0.92		814.2	11.1				
		486	6.0		798.3	-4.8				
		489	9.0		810.0	6.9				probably misread probe
		490	10.0		801.5	-1.6				
		493	13.0		802.9	-0.2				

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Q = well discharge

Coal const. dial test

AQUIFER TEST DATA

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Test by CoddingtonObservation Well Number _____
Pumped Well Number _____
Original Water Depth 803.0

Date	Hour	t (min)	t' (min)	t/t'	Water Depth	S (ft)	ΔS	S'	Q	Remarks
15 Jan 81	0800	0			803.0	0				
		0.5			823	20.0				
		1.0			870	67.0				
		1.75			879	76.0				
		2.17			885	82.0				
		4			885	82.0				
		6			884.8	81.8			95	(by meter)
		8			884.8	81.8				
		11			884.8	81.8				
15 Jan	0813	13			867.3	64.3				

t = time since pumping began

t' = time since pumping stopped

S = drawdown

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b = thickness of screened interval

S' = S - ΔS = drawdown corrected for unconfined conditions.

Q = well discharge

Coal Const disch. test
 AQUIFER TEST DATA
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Test by Coddington

Observation Well Number _____
 Pumped Well Number _____
 Original Water Depth _____

Date	Hour	t (min)	t' (min)	t/t'	Water Depth	S (ft)	ΔS	S'	Q	Remarks
15 Jan	0824	29			867.2	64.2				
	0839	39			866.8	63.8			100	
	0902	62			866.4	63.4			98	
	0928	88			866.2	63.2			96	
	0955	115			866.1	63.1			95	
	1054	174			865.8	62.8			93	
	1206	246			865.6	62.6			93	
	1340	340			865.6	62.6			94	
	1625	505			866.0	63.0			95	
15 Jan	1930	690			866.2	63.2			95	

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 Q = well discharge

Coal Const. Disch. Test
AQUIFER TEST DATA

Test by Coddington

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Observation Well Number _____
Pumped Well Number _____
Original Water Depth 803.0

Date	Hour	t (min)	t' (min)	t/t'	Water Depth	S (ft)	ΔS	S'	Q	Remarks
15 Jan	2153	833			866.2	63.2			96	
16 Jan	0657	1371			866.4	63.4			95 gpm	Q measured by flow meter. Act. flow may be higher.
	0700	0	0		866.4	63.4				Flow meter has been registering abt. 10% low compared to container filling and orifice. Flow rate is probably 105 gpm.
		1320.75	0.75	1841	817.2	14.2				
		1381.75	1.75	790	809.4	6.4				
		1373.57	3.67	377	779.3	-23.7				
		1366.83	6.83	203	798.4	-4.6				
		1325.75	8.75	159	799.5	-3.5				
		1390.33	10.33	135	802.1	-0.9				
		1393	13	107	803.1	0.1				

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S = drawdown

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Q = well discharge

Coal Const. disch. test

AQUIFER TEST DATA

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Test by Coddington

Observation Well Number _____

Pumped Well Number _____

Original Water Depth 803.0

Date	Hour	t (min)	t' (min)	t/t'	Water Depth	S (ft)	ΔS	S'	Q	Remarks
		1396	16	87.3	803.1	0.1				
		1400	20	70	803.1	0.1				
		1418	38	37.3	803.1	0.1				
		1442	62	23.3	803.1	0.1				
		1530	150	10.2	803.1	0.1				

t = time since pumping began

t' = time since pumping stopped

S = drawdown

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Q = well discharge