WELL PRODUCTION TEST

Date 7-18-69 Engineer Test by & Aboker County Modison									
Owner Vin Hathieson Chem Compriller Layne Western Co.									
Location 850 5, 2250 wo f NEcon. Sec. 29 T. 5 S. R. 9 (W)									
Aquifer Drill Cuttings									
PUMPED WELL (log on back of form)									
Well No. 2 Depth 95 Date completed 6-4-69									
Hole record 36"0-95									
Casing record 16" +2" -65									
Screen record 16 dolmson stainless #600 slot 65-95'									
Pump: Make and type Layne futbine No. stages 5 Dia. bowls 10"									
Length bowls 410"depth top of bowls 50 Power Cummins diesel engine									
Nonpumping level 8.35 below measuring point on 7-18-69 at 9.30 PM									
Pumping level 3.86 below measuring point after pumping at 602 gpm									
for 5 hours on 7-18-69 at 2.30 PM. Drawdown 5.31									
Measuring point Pump bose 2.9 above /sd. Elevation 420 ± Las TH									
Measuring equipment Elect. Arophine, steel topos, Layne or 1 Fice 6 x5									
Sample: 2-18-69 at 1.40 PM. Temp °F 59.5 Odor									
OBSERVATION WELLS (map on back of form)									
Record Direction from pumped well									
3 (see tests on these wells for 330' 500 NE									
4 construction features) 670' 500 NE									
Well No. Depth Dia. Hole, casing, screen Record Record Distance, Direction from pumped well 3 Construction features 670' SW NE 1010' SW NE									

Remarks:

Drillers Log Top 301/ Br. sandy clay 4-14 Gr. Jay 14-20 20-25 Course StG w//ignite 25-35 Fine-med 346 W/clay streaks 35 -46 Fine sand 46-58 Med-course sand Course sand, growla boulders Hed some 75-95 Sand, gracel & boulders Gras clay Mr. Floyd Blaine, dr. (Olm Flothieson Chem Corp. E. Alten, Illinois - 62024 DH. D. H. England 1) Mr. W.S. Bryant address 1) Layne Western Co. ZZS Grande Ave. Kirkwood, Mo. - 63122

1) W. H. Baker, Vr. (Edwardsville) Sibe

LAGE (5

Pumped Well (#2)

Field FORM B WELL PRODUCTION TEST

Date	7-18-	69	Engin	eer			Test	by/////	Briker (County <u>Madison</u>
Owne	r <u>0/</u> /	19 Mg	a Hora	S.D. 19) Sergenzi	(Ono	Loca	tion Se	0'5,3 029	County <u>Madison</u> 250 WofNEcor 500 EGW
Meas	uring	poin	t Tan	9,0 l)#5E	, <u>, , , , , , , , , , , , , , , , , , </u>	7 / a ko.	we lac	1	
				U"						une aritice 625
		Time	Well No.	Wat Held	er le Wet	vel Depth	Draw- down (feet)	Piez. tube (inch)	ing	Remarks
7-18			کلتے			8,55				
AM	9:30	0				8.55	0			Stort pump
	3/	,				12.76	4.21			
	82	حشر				12.77		24.5	602	
	20	3				1279	4.24			
	34/	_ii_j-				12.87	4.32			
	9.35	5				12.87	4.32			
	N)	6				1294	32			
	_37			1		12.97	4,42			
	3R	8				13.03				
	39	9						24.5	602	
	9:90	10	1			13.08	4.53			
	42	12.				13.11	4.5°C			
	45	15				13.16	4.60/			
	9,50	20				13.28	4.73			1
	حرق	25				13.33	4.78			
	10100	30				13.39	4.84			
	10	40			 	13.46		24.5	602	
	20	ුරුව	T			13.55		<u> </u>		
	. 30	60		<u> </u>		13.61	-			
	46	20	***************************************			13,62				
	60	80	 		l		5.11		 	
	11:00	90			 	7	5715			
بادلالا استبار بساعات	10	100					575		 	
					<u> </u>	13.23		24.5	602	
AM	12100			1	 	13.75		64.5	(37 657 655	
DH	12150		 	 		13.80			<u> </u>	
<u> </u>	1:40		 	 			5.30			Samole Temo 59.5%
		300			 	1201	5.3/		 	5the ourne
	3/	آ آ	 	 		9.79			 	Recovern
	3Z	Ź	 	 		9.71	 	 -		Kerovern
	33	3	 	 	 	9.65	 			
	34	4	 	 	 			 	 	
	35°	5	 		 -	9.59	 	 	 	
DM	7 26	1 2	 	 	 	9.52	 -		 	

4 047 65

Observation Well (#3)

WELL PRODUCTION TEST

Field FORM B

Date 7-18-69 Engineer Test by 11H Buker County Hadison													
0wne:	Owner Olin Mathieson Chem Corp. Location												
Meas	uring	poin	ե	<u> </u>	_	<u>e</u> 4	-af	-fue			**************************************		
Meas	uring	equip	pment.	_5	1/2	<u>=e/</u>	1-24	<u> </u>					
				W a	ate	er le	vel	.					
Date	Hour	Time	Well No.	He.	ld	Wet	Depth	Draw- down (feet)	tube	Pump- ing rate (gpm)	Remarks		
2-18	9.20		3	11.0		2.33	10.67						
	25			11.2	Š.		10,67		~ ~~~~~~~				
	9:30	0		11.	0	0.33	10.67	0			Edartours		
	37	/		12.	6		10.74						
	82	2				151	10.79	0.12					
-	33	3				1.77	10,83	10.16					
	34	4		7	/	1.15	10.85	O.1A					
	9.35	5				2.12	10.88						
-	36	6				1.10	10.90	0.23					
	37	2			\subseteq	108	10.92.	0.25					
	,38	8				1.00	10.95	028					
	وت الله	9				1.02	10.98						
	9.40	10		***************************************		77624	10.99	0.82					
	-47,7	12.				0.96	11.04	0.37					
	96	55		V.	7	291		0.42					
-	్ ఫ	20		t Windows		0.86	11.14	0.47					
-	රලී	25			\subseteq	0.80	11,20	0.53					
	10100	60				025		0.08					
بدائك بداعت كربة	10	40			_	0.67	11.33	0.66					
	20	(5)		\	_	061	11.39	0.72					
	30	60		aProfrike		0156	11.44						
والمستحدية	40	20			\leq		11.48						
	50					043	1152	0.85					
	11:00	90			\leq			0.87					
	10					043	11.57	0.90					
		120				0.38	11.62	0.95					
<u> </u>	12:00						11.65	0.98					
PM	12,50				\leq		11.69	1.02					
		250				0-26	11,74	1.07					
	2,30				\leq	034	11,26	1.09			Hos sums		
	3/	1				5.33	11.67				Hop gump.		
	32	وشق			<u> </u>	0-39	11.61						
	33	3			\leq	0.42	11.58						
	34	4					11.55						
PM	2135	5	1	12.1	5		11.55				condid		

Observation Well (#4)

WELL PRODUCTION TEST

Field FORM B

Date 7-18-69 Engineer Test by WHOaker County Ladison													
	Owner Olin Hothicson Chem Corp. Location Measuring point (See test on well #9)												
									se // 4				
Meas	uring	equip	pment_	4/2 C-	3 7	te e		<u> </u>					
	te Hour Time Well H				Wet	Depth	down	Piez. tube (inch)	ing	Remarks			
	9:00		4	15	0		11.12						
<u>an</u>	7.5° 30 33° 40	0 5 10				3.90 3.85 3.82	11.15 11.18	0.05			Start pump		
	<u>45</u> 50	15 20					11.20	0.10					
	্ৰ	25		3	2	3.72							
-	10:00	30			,		11.30	0.20					
-		40				3.65	11.35	0.25					
**	20	50		\geq			11.90						
بيانسسانيه بيروند	-30	60					11.42						
-	40	70		_ <		40.00		0.36					
	<u>50</u>	80 90	 	-			11.50						
	10		<u> </u>		<u> </u>		11.53 11.54						
-	30	120					11.58						
44	12,'00	150				T	11.60						
PM	12:50	200					11.66						
		250					11.68						
	2/30					3.30	11.70	0.60			Stopped pump		
***************************************	35	- G			_		11.68				recorder		
	40					334	11.604	<u> </u>					
	45		 -				11.63	<u> </u>					
	<u>50</u>	20 25°	 			3,40	11.57						
	3.00	30	 	15	:0	3.27							
		100 1000	 		<u> </u>						end recover		
						 	 -	<u> </u>					
									····				
	}												

Observation Well (#5)

WELL PRODUCTION TEST

Field FORM B

Date 7-18-69 Engineer Test by UHBake County Madison														
Owner Ohn Hathreson Chem Corp Location Measuring point (see test on well #5)														
Meas	uring	poin	t(S	<u>.e</u>	<u>e 72</u>	s/o,	2 600/	1/45))				
Meası	Measuring equipment 5 feet fage													
	Hour Time Well Held No.		ld	Wet	Depth	down	Piez. tube (inch)	ing	Remarks					
· management	2.05		5_	137	0		10.42							
HM	9,20				· · · ·		10.40				, , , , , , , , , , , , , , , , , , , ,			
	2.30					2.164	10.36				Start pring.			
	35° 40	<u> </u>			_		10.39				· · · · · · · · · · · · · · · · · · ·			
	45	<u> </u>	 -					0.04						
	50	20				2,500		0.05						
	55	25			-	Z.57 Z.58	10,43 10,44	0.08						
	10:00	50		 -			10.45	0.09						
-	10	40				252	10.48		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
	20	50				7.5	10.49	0,13						
	30	60	<u> </u>		~	3.50	10.50	0,14						
	40	70				2.47	10.53	0.17		· · · · · · · · · · · · · · · · · · ·				
	50	80				2.95	10.55	0.19						
	11:00	90			<	2.00	10.56	0.20						
	10	100				2.43	10.58	0.22						
	30	120			_	2.41	10.59	0.23						
	00',5	150		_=		2,30	10.62	0.26						
PM		200	ļ			<u> </u>	10.65	0.29						
		250	<u></u>		_	2,32	10.68				<u> </u>			
	2, 20		ļ				10.20	0.34			5/90 permo			
4	-55					23/	113.109			-	recovery			
	-40 -45	15	 	 		<u> </u>	10.69							
	0.0	20	 			200	10.68 10.67							
	35	25	<u> </u>	-		223	10.66							
	3:00	20		13	.0	2.5%	10.64				end recovery			
					-		75797							
														
				<u> </u>										
	<u> </u>					1								