

ALL PRODUCTION TEST DATA SHEET
BEFORE ACIDIFICATION

Job Oscar Meyer Date Tested Sept. 30, 1969
 Location Perry, Iowa Tested by Ed Winslow
 Diameter of Well 12 1/2" I.D. Pump Used Turbine
 Depth of Well 2111' Driver V12 OMC Diesel 500 HP
 Length of Airline Electric Col. & Shaft 3" Col. 1 15/16" Shaft
 Static W.L. 53' when started Sows 12" 18 Stage, 2000 GPM
 Orifice Size 6 X 10 Mfg. Layne

TIME	ORIFICE SIZING	GPM	RISING LEVEL	STATIC W.L.	DOWN DOWN	REMARKS
3:30 PM	8 in.	395+		53'-0"		Static W.L. 53'-0"
3:45	" in.	395+	102'-0"	53'-0"	49'-0"	
4:00	8 in.	395+	102'-8"	53'-0"	49'-8"	Temp. = 20.5°
4:15	" in.	395+	102'-9"	53'-0"	49'-5"	
4:30	8 in.	395+	102'-6"	53'-0"	49'-6"	
4:45	8 in.	395+	102'-4"	53'-0"	49'-4"	
5:00	8 in.	395+	102'-4"	53'-0"	49'-4"	
6:00	8 in.	395	102'-7"	53'-0"	49'-7"	
7:00	8 in.	395	102'-6"	53'-0"	49'-6"	Temp. = 20.5°
7:30	8 in.	395	102'-7"	53'-0"	49'-7"	
7:35	24 1/2 in.	700		53'-0"		Increased pump rate
7:45	24 1/2 in.	700	158'-0"	53'-0"	105'-0"	
8:00	24 1/2 in.	700	158'-4"	53'-0"	105'-4"	
8:15	24 1/2 in.	700	158'-4"	53'-0"	105'-4"	
8:30	24 1/2 in.	700	158'-4"	53'-0"	105'-4"	
9:30	24 1/2 in.	700	158'-7"	53'-0"	105'-7"	
10:30	24 1/2 in.	700	158'-7"	53'-0"	105'-7"	
11:30	24 1/2 in.	700	158'-7"	53'-0"	105'-7"	Opened valve small inch to maintain rate
11:35	40 1/2 in.	948		53'-0"		Increase pumping rate

WELL PRODUCTION TEST DATA SHEET

TIME	ORIFICE READING	GPM	TESTING LEVEL	STATION W.L.	DOWN	REMARKS
11:40	25 1/2 in.	948	228'-10"	53'-0"	175'-10"	5.33 GPM/ft
12:05 AM	46 1/2 in.	948	229'-0"	53'-0"	176'-0"	
12:10	58 in.	1052		53'-0"		Increased pumping rate.
1:05	52 in.	1000		53'-0"		
1:30	52 in.	1000	246'-6"	53'-0"	193'-6"	Increased pumping rate. Couldn't get W scope reading at higher rate.
2:30	52 in.	1000	248'-5"	53'-0"	195'-5"	
3:30	52 in.	1000	248'-5"	53'-0"	195'-5"	
4:30	52 in.	1000	248'-5"	53'-0"	195'-5"	
5:30	52 in.	1000	248'-8"	53'-0"	195'-2"	
6:30	52 in.	1000	247'-8"	53'-0"	194'-8"	
7:30	52 in.	1000	247'-7"	53'-0"	194'-7"	
8:30	52 in.	1000	246'-11"	53'-0"	193'-11"	
10:00	52 in.	1000	246'-10"	53'-0"	193'-10"	
11:20	52 in.	1000	246'-6"	53'-0"	193'-6"	
12:30	52 in.	1000	246'-5"	53'-0"	193'-5"	
1:30	52 in.	1000	246'-6"	53'-0"	193'-6"	
2:30	52 in.	1000	246'-7"	53'-0"	193'-7"	

9000 Gallons Treating Acid, 28 hours in well

Sheet No. 1

WELL PRODUCTION TEST DATA SHEET
AFTER ACIDIFICATION

Job Deann Meyer Date Tested Oct. 12, 1969
 Location Dorry, Iowa Name of Well Deann Meyer
 Diameter of Well 12" Pump Used Turbine
 Depth of Well 2111' Motor 12 5/8" Diesel 500 HP
 Length of Airline Electric Well & Sucker 2" Col. 1 15/16" shaft
 Static W. L. 55' 10" Orifice 12" 2000 GPM
 Orifice Size C & 10 Name Layne

TIME	ORIFICE READING	GPM	PUMPING LEVEL	STATIC W. L.	DRAW-DOWN	REMARKS
9:30				55'-0"		
9:35	8 1/2"	400	65'-0"		10'-0"	Start Pumping
9:45	9"	400	65'-0"	55'-0"	10'-0"	
9:55	9 1/2"	400	65'-0"	55'-0"	10'-0"	
9:55						Increased flow rate
10:00	24 1/2"	700	75'-4"	55'-0"	20'-4"	
10:10	24 1/2"	700	75'-3"	55'-0"	20'-3"	
10:15						shut down to change to 8" orifice
10:17						Started pumping @ 1000 GPM
10:25	9 1/2"	1016	64'-5"	55'-0"	20'-7"	1000 GPM
10:45	9 1/2"	1016	64'-5"	55'-0"	20'-5"	10.0 S.P.
11:00	9 1/2"	1016	64'-7"	55'-0"	20'-7"	
12:00	9 1/2"	1016	64'-0"	55'-0"	20'-0"	
1:00	9 1/2"	1016	64'-0"	55'-0"	20'-0"	
2:00	9 1/2"	1016	64'-0"	55'-0"	20'-0"	
3:00	9 1/2"	1016	64'-0"	55'-0"	20'-0"	

* From Ref. Point 4 1/2" above top of casing

9000 Gallons Treating Acid, 24 Hours in well

Sheet No. 2

Job Oscar Meyer

Date Tested Oct. 10, 1969

TIME	081-151 FEET 150	094	130 1-151	81-113 8.1	201 1-87	REMARKS
4:00	23"	1015	84'-2"	55'-0"	29'-8"	
4:15	23"	1015	84'-2"	55'-0"	29'-3"	
4:20						Increased Pump Rate to 1500 GPM
4:30	23 "	1500	110'-4"	55'-0"	55'-4"	
4:40	23 "	1500	110'-4"	55'-0"	55'-4"	
5:00	23 "	1500	110'-6"	55'-0"	55'-6"	SPD= 27.0
6:00	23 "	1500	111'-2"	55'-0"	56'-2"	
7:00	23 "	1500	111'-1"	55'-0"	56'-1"	
8:00	23 "	1500	111'-6"	55'-0"	56'-6"	
9:00	23 "	1500	111'-5"	55'-0"	56'-5"	
10:00	23 "	1500	111'-5"	55'-0"	56'-4"	
11:00	23 "	1500	111'-7"	55'-0"	56'-7"	
12:01	23 "	1500	111'-7"	55'-0"	56'-7"	Oct. 11, 1969
1:00	23 "	1500	111'-7"	55'-0"	56'-7"	
2:00	23 "	1500+	111'-7"	55'-0"	56'-7"	Increased pump a little
3:00	23 "+	1500+	112'-0"	55'-0"	57'-0"	Raining
4:20	23 "+	1500+	114'-0"	55'-0"	59'-0"	
4:35	44 1/2 "+	2000		55'-0"		Increased pump
5:00	44 1/2 "+	2000	151'-1"	55'-0"	92'-1"	
6:00	44 1/2 "	2000	151'-2"	55'-0"	92'-2"	
7:00	44 1/2 "	2000	151'-2"	55'-0"	92'-2"	
8:00	44 1/2 "	2000	151'-2"	55'-0"	92'-2"	
9:00	44 1/2 "	2000	152'-0"	55'-0"	97'-0"	
9:30	44 1/2 "	2000	151'-9"	55'-0"	96'-9"	

RECOVERY

WELL PRODUCTION TEST DATA SHEET

Job Oscar Meyer Co.

Date Test run Oct. 11, 1960

Location Perry, Iowa

Designed by Ed Hinesley

Diameter of Well 21 1/2"

Motor Used Turbine

Depth of Well 2111'

Motor V 12 GMC Diesel 500 HP

Length of Airline Electric

Orifice Static 6" Col. 1 15/16" shaft

Static W. L. 55'

Orifice 12" 2000 RPM

Orifice Size 6X10

Company Layne

TIME	ORIFICE READING	RPM	SUMPING LEVEL	STATIC W. L.	CHANG. POINT	REMARKS
9:42	AAA"	2700	151'-9"	55'-0"	26'-0"	Turn Off
9:42			75'			Recovery 30 Sec.
9:42			65'			76'-0"
9:42			65'			1 min. recovery
9:42			60'			2 min. to 60'
9:42			59'			4 min. to 59'
9:42			58'			5 min. recovery
10:03			57'			21 min. to 57'
10:35			56'-3"			53 min. to 56'-3"
10:55			56'			73 min. to 56'

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

File No. { Washington
District

OSCAR-MAYER PACKING CO. - PENNSYLVANIA TOTAL DEPTH 2122 - MEASURING POINT 3'

TIME	ELECTRIC LINE	PL	ORANGE 6x10	GPM	DD	REMARKS
9/30/69						SWL = 48.92 Flow of Pump G 270' GROUND LEVEL ELEV. = 935.26'
						REL. = 939.34 FORM-SCOPE READINGS
3:00 PM	242	242		972		PUMP OFF - AFTER PRELIMINARY TEST (8 HRS.)
3:09	80'					
3:02	59'					
3:03	53 1/2					
3:20	53					
3:30	53	453				START PUMP PUMP OFF WATER CLEAR
3:34			8"	395	49.9	
3:45		102'7"	8"	395	49.9	
4:00		102'8"	8"	395	49.8	8.0 - SPEC. CAPACITY TEMP = 70°F
4:30		102'6"	8"	395	49.6	
5:00		102'9"	8"	395	49.4	TOOK WATER SAMPLE @ 5:00 PM. 125 PPM CHLORIDE
6:00		102'7"	8"	395		0.75" IRON
7:00		102'6"	8"	395		TOTAL HARDNESS 350 PPM (30.6 GRAMS) HARDNESS (CALCIUM) = 260 PPM (15.3 GRAMS) HARDNESS (Mg.) = 90 PPM (5.3 GRAMS) SULPHATE ALSO 1650 PPM
7:30		102'7"	8"	395		TOOK WATER SAMPLE - TEMP 69° PPL 8.1 (7.2 GRAMS PPM)
7:35			24.5	699		INCREASED PUMPING RATE
7:45		158'0"	24.5	699		
8:00		158'4"	24.5	699		
8:15		158'4"	24.5	699		
8:30		158'4"	24.5	699		
9:30		158'7"	24.5	699	105.7	SPEC. CAP = 6.07
10:30		158'7"	24.5	699		
11:30		158'9"	24.5	699		
11:35			46.5	948		INCREASED PUMPING RATE
11:40		228'10"	46.5	948	175'10"	
12:10 AM				1052		INCREASED PUMPING RATE
1:05			52	1000		DECREASED RATE - COULDN'T GET A-SCOPE READING AT HIGH RATE
1:30		246'6"	52	1000	246'6"	
2:38		249'5"	52	1000	248'5"	

RECOVERY

20/11/69

NOTE: GROUND ELEVATION = 935.26'
MEASURING POINT WAS 939.34' - ALL READINGS SHOULD BE 4.07'
LESS TO ADJUST TO GROUND LEVEL.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

File No. { Washington
District

OSCAR - Mayer Packing Co.

TIME	PL	GAUGE L X ID	GPM	DD	REMARKS
10/1/69					Elev. 2935.26 - GROUND LEVEL 939.34 FOR READINGS
3:30 AM	248.5'	52	1000	215' 5"	
4:30	248.5"	52	1000	215' 5"	
5:30	248' 2"	52	1000	215' 3"	
6:30	247' 8"	52	1000	214' 8"	
7:30	247' 7"	52	1000	214' 7"	
8:30	246' 11"	52	1000	214' 1"	
9:00	246' 7"	52	1000	214' 9"	TOOK WATER SAMPLE - AFTER PUMPING 17 HRS.
10:00	246' 10"	52	1000	214' 9"	Temp. 70°
10:20	"	"	"	"	
11:30	"	"	"	"	
12:30 PM	"	"	"	"	
1:30	"	"	"	"	
2:30	"	"	"	"	
3:30	"	"	"	"	PUMP OFF