



P. O. BOX 1599
WICHITA, KANSAS 67201

WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No

8797

Elevation

1366 RB

Formation

STALNAKER SAND

Eff. Pay Ft.

District

GREAT BEND

Date

12-15-80

Customer Order No.

COMPANY NAME

SLMW ENERGY CO. Bill to DUNNEGARDNER PETROLEUM

ADDRESS

200 West Douglas, Suite 250 WICHITA KS 67202

LEASE AND WELL NO.

#1 HEMBERGER

COUNTY

SUMNER

STATE

KS

Sec.

29

Twp.

30S Rge 3W

Mail Invoice To

Co. Name

SAME

Address

No. Copies Requested

5

Mail Charts To

Co. Name

SAME

Address

No. Copies Requested

5

Formation Test No.

#1

Interval

Tested from

2969

ft. to

2990

ft.

Total Depth

2990

ft.

Packer Depth

2964

ft.

Size

658

in.

Packer Depth

2969

ft.

Size

658

in.

Packer Depth

ft.

Size

in.

Packer Depth

ft.

Size

in.

Depth of Selective Zone Set

Top Recorder Depth (Inside)

2983

ft.

Recorder Number

1563

Cap.

4200

Bottom Recorder Depth (Outside)

2986

ft.

Recorder Number

1562

Cap.

3900

Below Straddle Recorder Depth

ft.

Recorder Number

Cap.

Drilling Contractor

DUNNEGARDNER Rig #1

Drill Collar Length

I. D.

in.

Mud Type

PREMIUM MONOPH

Viscosity

40

Weight Pipe Length

629

I. D.

2.7

Weight

7.5

Water Loss

33

cc.

Drill Pipe Length

2318

I. D.

3.8

Chlorides

9,000

P.P.M.

Test Tool Length

22

ft.

Tool Size

5 1/2

in.

Jars: Make

Serial Number

Anchor Length

21

ft.

Size

5 1/2

in.

Did Well Flow?

GAS

Reversed Out

YES

Surface Choke Size

314

in.

Bottom Choke Size

314

in.

Main Hole Size

7 1/8

in.

Tool Joint Size

4 1/2

in.

Blow:

1st Blow STRONG OFF BOTTOM Bucket GAS SURFACED

Recovered

TO

ft. of

3,390 CFG/Day

Recovered

50

ft. of

80-80CM - Gas cut and OCMud

Recovered

2740

ft. of

GASSY CLEAN OIL

50-51 GRAVITY

Recovered

80

ft. of

SALT WATER ABOVE TOOL

Remarks:

Mileage FROM AUGUSTA SHOP

Time On Location

11:45

A.M.

Time Pick Up Tool

12:00

P.M.

Time Off Location

10:00

P.M.

Time Set Packer(s)

1:30

P.M.

Time Started Off Bottom

4:45

P.M.

Maximum Temperature

1180

Initial Hydrostatic Pressure

(A)

1490

P.S.I.

Initial Flow Period

Minutes

30

(B)

350

P.S.I. to (C)

767

P.S.I.

Initial Closed In Period

Minutes

45

(D)

1282

P.S.I.

Final Flow Period

Minutes

60

(E)

867

P.S.I. to (F)

1193

P.S.I.

Final Closed In Period

Minutes

60

(G)

1292

P.S.I.

Final Hydrostatic Pressure

(H)

1500

P.S.I.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By

Signature of Customer or his authorized representative

CHARLIE KING

Western Representative

Cliff Scheneman

Thank You!

FIELD INVOICE

Open Hole Test

\$ 550.00

Misrun

\$

Straddle Test

\$

Jars

\$

Selective Zone

\$

Safety Joint

\$

Standby

\$

Evaluation

\$

Extra Packer

\$

Circ. Sub

\$ 30.00

Mileage

\$ 51.75

Fluid Sampler

\$

Extra Charts

\$

Insurance

\$

TOTAL

\$ 631.75

WICHITA, KANSAS 67201

GAS FLOW REPORT

WESTERN TESTING CO., INC.

Pressure Data

Date 12-15 Recorder No. 1563 Capacity 4200 Test Ticket No. 8797
 Clock No. Elevation 1366 KB Location 2983 Ft. Well Temperature 118 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1521</u>	P.S.I.	<u>1:30 P</u>	<u>M</u>
B First Initial Flow Pressure	<u>355</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
C First Final Flow Pressure	<u>778</u>	P.S.I.	<u>45</u>	<u>42</u> Mins.
D Initial Closed-in Pressure	<u>1274</u>	P.S.I.	<u>60</u>	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>900</u>	P.S.I.	<u>60</u>	<u>60</u> Mins.
F Second Final Flow Pressure	<u>1170</u>	P.S.I.		
G Final Closed-in Pressure	<u>1285</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1500</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 6 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Initial Shut-In
 Breakdown: 14 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Second Flow Pressure
 Breakdown: 12 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 20 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>355</u>	0	<u>778</u>	0	<u>900</u>	0	<u>1170</u>
P 2 5	<u>433</u>	3	<u>1215</u>	5	<u>900</u>	3	<u>1246</u>
P 3 10	<u>501</u>	6	<u>1238</u>	10	<u>907</u>	6	<u>1255</u>
P 4 15	<u>582</u>	9	<u>1249</u>	15	<u>931</u>	9	<u>1258</u>
P 5 20	<u>650</u>	12	<u>1254</u>	20	<u>969</u>	12	<u>1262</u>
P 6 25	<u>715</u>	15	<u>1259</u>	25 <u>1007</u>	1000	15	<u>1264</u>
P 7 30	<u>778</u>	18	<u>1261</u>	30	<u>1040</u>	18	<u>1267</u>
P 8 35		21	<u>1264</u>	35	<u>1071</u>	21	<u>1269</u>
P 9 40		24	<u>1266</u>	40	<u>1099</u>	24	<u>1271</u>
P10 45		27	<u>1268</u>	45	<u>1126</u>	27	<u>1273</u>
P11 50		30	<u>1270</u>	50	<u>1147</u>	30	<u>1275</u>
P12 55		33	<u>1272</u>	55	<u>1166</u>	33	<u>1277</u>
P13 60		36	<u>1274</u>	60	<u>1170</u>	36	<u>1279</u>
P14		39	<u>1275</u>	65	1170	39	<u>1280</u>
P15		42	<u>1276</u>	70		42	<u>1281</u>
P16		45		75		45	<u>1282</u>
P17		48		80		48	<u>1283</u>
P18		51		85		51	<u>1284</u>
P19		54		90		54	<u>1285</u>
P20		57				57	<u>1285</u>
		60				60	<u>1285</u>

Company SLMW ENERGY COMPANY Lease & Well No. Hemberger #1
Elevation 1366 Kelly Bushing Formation Stalnaker Sand Effective Pay ----- Ft. Ticket No. 8797
Date 12-15-80 Sec. 29 Twp. 30 S Range 3 W County Sumner State KS
Test Approved by Charlie King Western Representative Cliff Scheuerman

Formation Test No. 1 Interval Tested from 2969 ft. to 2990 ft. Total Depth 2990 ft.
Packer Depth 2964 ft. Size 6 5/8 in. Packer Depth 2969 ft. Size 6 5/8 in.
Packer Depth ----- ft. Size ----- in. Packer Depth ----- ft. Size ----- in.
Depth of Selective Zone Set -----

Top Recorder Depth (Inside) 2983 ft. Recorder Number 1563 Cap. 4200
Bottom Recorder Depth (Outside) 2986 ft. Recorder Number 2562 Cap. 3900
Below Straddle Recorder Depth ----- ft. Recorder Number --- Cap. ---

Drilling Contractor Dunne-Gardner Drilling Rig #1 Drill Collar Length --- I. D. ----- in.
Mud Type Premix-Monpac Viscosity 40 Weight Pipe Length 629 I. D. 2.7 in.
Weight 9.5 Water Loss 33 cc. Drill Pipe Length 2318 I. D. 3.8 in.
Chlorides 9,000 P.P.M. Test Tool Length 22 ft. Tool Size 5 1/2 in.
Jars: Make --- Serial Number ----- Anchor Length 21 ft. Size 5 1/2 in.
Did Well Flow? Gas Reversed Out YES Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 in.

Blow: Initial flow period, strong off bottom of bucket. Gas surfaced 25 minutes into initial shut-in. Highest gage on final flow period 8,300 decreasing to 3,390 CFG/ Pay.

Recovered 50 ft. of Gas cut and oil cut mud.
Recovered 2740 ft. of Gassy clean oil.
Recovered 80 ft. of Salt water above tool.
Recovered ft. of
Recovered ft. of

Remarks:

Time Set Packer(s) 1:30 ~~***~~ P.M. Time Started Off Bottom 4:45 ~~***~~ P.M. Maximum Temperature 118° F.
Initial Hydrostatic Pressure 1521 P.S.I. (A)
Initial Flow Period 30 Minutes (B) 355 P.S.I. to (C) 778 P.S.I.
Initial Closed In Period 42 Minutes (D) 1276 P.S.I.
Final Flow Period 60 Minutes (E) 900 P.S.I. to (F) 1170 P.S.I.
Final Closed In Period 60 Minutes (G) 1285 P.S.I.
Final Hydrostatic Pressure 1500 P.S.I. (H)

GAS FLOW REPORT

Date 12-15-80 Ticket 8779 Company SIMW Energy Company
 Well Name and No. Hemberger #1 Dst No. 1 Interval Tested 2969-2990
 County Sumner State Kansas Sec. 29 Twp. 30S Rg. 3W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
PRE FLOW						

Gas to surface at 2:25 PM **SECOND FLOW** 25 minutes into shut-in

5 Min	8 PSIG	1/8" Orifice		8,300 C.F.P.D.
15 Min	1.5 PSIG	1/8" Orifice		3,390 C.F.P.D.
25 Min	1.5 PSIG	1/8" Orifice		3,390 C.F.P.D.
35 Min	1.5 PSIG	1/8" Orifice		3,390 C.F.P.D.
45 Min	1.0 PSIG	1/8" Orifice		2,760 C.F.P.D.
55 Min	1.0 PSIG	1/8" Orifice		2,760 C.F.P.D.

GAS BOTTLE

Serial No. none Date Bottle Filled - Date to be Invoiced 12-15-80

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1½% per month, equal to 18% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME SIMW Energy Company
 Authorized by Charlie King

WESTERN TESTING CO., INC.

Pressure Data

Date 12-15-80

Test Ticket No. 8797

Recorder No. 1563 Capacity 4200 Location 2983 Ft.

Clock No. _____ Elevation 1366 Kelly Bushing Well Temperature 118 °F

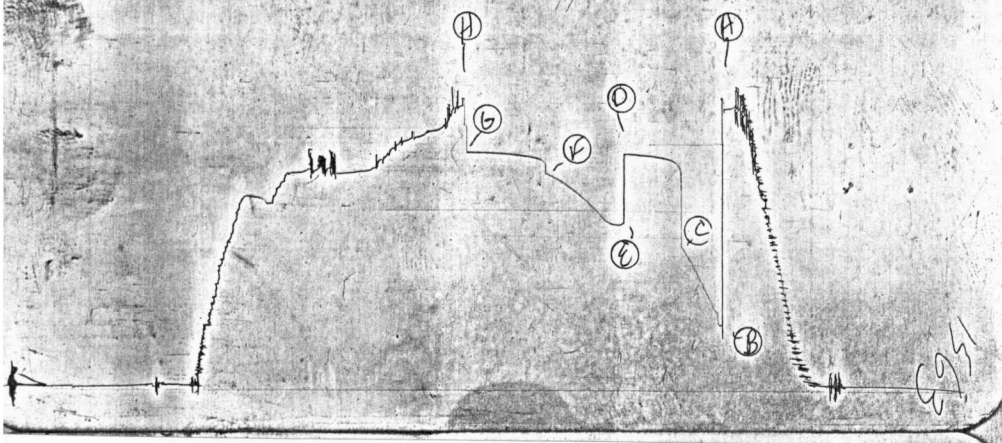
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1521</u> P.S.I.	Open Tool	<u>1:30P</u> M	
B First Initial Flow Pressure	<u>355</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>778</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>42</u> Mins.
D Initial Closed-in Pressure	<u>1276</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>900</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>1170</u> P.S.I.			
G Final Closed-in Pressure	<u>1285</u> P.S.I.			
H Final Hydrostatic Mud	<u>1500</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>14</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>20</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>355</u>	<u>0</u>	<u>778</u>	<u>0</u>	<u>900</u>	<u>0</u>	<u>1170</u>
P 2 <u>5</u>	<u>433</u>	<u>3</u>	<u>1215</u>	<u>5</u>	<u>900</u>	<u>3</u>	<u>1246</u>
P 3 <u>10</u>	<u>501</u>	<u>6</u>	<u>1238</u>	<u>10</u>	<u>907</u>	<u>6</u>	<u>1255</u>
P 4 <u>15</u>	<u>583</u>	<u>9</u>	<u>1249</u>	<u>15</u>	<u>931</u>	<u>9</u>	<u>1258</u>
P 5 <u>20</u>	<u>650</u>	<u>12</u>	<u>1254</u>	<u>20</u>	<u>969</u>	<u>12</u>	<u>1262</u>
P 6 <u>25</u>	<u>715</u>	<u>15</u>	<u>1259</u>	<u>25</u>	<u>1007</u>	<u>15</u>	<u>1264</u>
P 7 <u>30</u>	<u>778</u>	<u>18</u>	<u>1261</u>	<u>30</u>	<u>1040</u>	<u>18</u>	<u>1267</u>
P 8 _____	_____	<u>21</u>	<u>1264</u>	<u>35</u>	<u>1071</u>	<u>21</u>	<u>1269</u>
P 9 _____	_____	<u>24</u>	<u>1266</u>	<u>40</u>	<u>1099</u>	<u>24</u>	<u>1271</u>
P10 _____	_____	<u>27</u>	<u>1268</u>	<u>45</u>	<u>1126</u>	<u>27</u>	<u>1273</u>
P11 _____	_____	<u>30</u>	<u>1270</u>	<u>50</u>	<u>1147</u>	<u>30</u>	<u>1275</u>
P12 _____	_____	<u>33</u>	<u>1272</u>	<u>55</u>	<u>1166</u>	<u>33</u>	<u>1277</u>
P13 _____	_____	<u>36</u>	<u>1274</u>	<u>60</u>	<u>1170</u>	<u>36</u>	<u>1279</u>
P14 _____	_____	<u>39</u>	<u>1275</u>	_____	_____	<u>39</u>	<u>1280</u>
P15 _____	_____	<u>42</u>	<u>1276</u>	_____	_____	<u>42</u>	<u>1281</u>
P16 _____	_____	_____	_____	_____	_____	<u>45</u>	<u>1282</u>
P17 _____	_____	_____	_____	_____	_____	<u>48</u>	<u>1283</u>
P18 _____	_____	_____	_____	_____	_____	<u>51</u>	<u>1284</u>
P19 _____	_____	_____	_____	_____	_____	<u>54</u>	<u>1285</u>
P20 _____	_____	_____	_____	_____	_____	<u>57</u>	<u>1285</u>
						<u>60</u>	<u>1285</u>

KA #8797

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P. O. BOX 1599 PHONE (316) 838-0601
WICHITA, KANSAS 67201

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 3093

Elevation 1366 Kelly Formation Bushy Eff. Pay Simpson Ft.

District Augusta Date 12-19-80 Customer Order No. _____
COMPANY NAME S.L.M.W. Energy Co. % Dunn & Gardner Pet. Inc 200W Douglas St. E
ADDRESS 4818 S. Knoxville, Tulsa, Okla. Wichita, KS.
LEASE AND WELL NO. Kemberger #1 COUNTY Sumner STATE KS. Sec 29 Twp 30S Rge 3W
Mail Invoice To _____ Co. Name _____ Address _____ No. Copies Requested 1
Mail Charts To _____ Address _____ No. Copies Requested 5

Formation Test No. 2 Interval Tested from 4294 ft. to 4310 ft. Total Depth 4310 ft.
Packer Depth 4294 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 4289 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4303 ft. Recorder Number 1559 Cap. 4200
Bottom Recorder Depth (Outside) 4306 ft. Recorder Number 5666 Cap. 3950
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____
Drilling Contractor Dunn-Gardner, Delg. #1 Drill Collar Length _____ I. D. _____ in.
Mud Type Pacmix-mmpac Viscosity 56 Weight Pipe Length 733 I. D. 2.7 in.
Weight 9.7 Water Loss 11 cc. Drill Pipe Length 3577 I. D. 3.8 in.
Chlorides 8,000 P.P.M. Test Tool Length 40 in. Tool Size 5 1/2 in.
Jars: Make _____ Serial Number _____ Anchor Length 16 ft. Size 5 1/2 in.
Did Well Flow? no Reversed Out no Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: fair diminished weak 50 min

Recovered 125 ft. of drilling mud with oil seum on top of total
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Remarks: _____

on loc. 9:30 am. picked up tool 11:00 am. off loc. stayed rig for DST #3
Time Set Packer(s) 1:40 A.M. P.M. Time Started Off Bottom 4:40 A.M. P.M. Maximum Temperature 126
Initial Hydrostatic Pressure _____ (A) 2315 P.S.I.
Initial Flow Period _____ Minutes 30 (B) 60 P.S.I. to (C) 60 P.S.I.
Initial Closed In Period _____ Minutes 60 (D) 1190 P.S.I.
Final Flow Period _____ Minutes 60 (E) 75 P.S.I. to (F) 75 P.S.I.
Final Closed In Period _____ Minutes 60 (G) 220 P.S.I.
Final Hydrostatic Pressure _____ (H) 2315 P.S.I.

COMPANY TERMS

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All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Jerry D. Smith
Signature of Customer or his authorized representative

Western Representative Wynne W. Smith

FIELD INVOICE

Open Hole Test \$ 600.00
Misrun \$ _____
Straddle Test \$ _____
Jars \$ _____
Selective Zone \$ _____
Safety Joint \$ 50.00
Standby \$ _____
Evaluation \$ _____
Extra Packer \$ _____
Circ. Sub. \$ _____
(54) Mileage \$ 40.50
Extra Charts \$ _____

TOTAL \$ 690.50

DEC 22 1980

WESTERN TESTING CO., INC.

Pressure Data

Date 12-19 Test Ticket No. 3093
 Recorder No. 1559 Capacity 4200 Location 4303 Ft.
 Clock No. Elevation 1366 KB Well Temperature 126 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2308</u> P.S.I.	<u>1:40 P</u> M	
B First Initial Flow Pressure	<u>70</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>70</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1196</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>81</u> P.S.I.	<u>60</u> Mins.	<u>66</u> Mins.
F Second Final Flow Pressure	<u>79</u> P.S.I.		
G Final Closed-in Pressure	<u>230</u> P.S.I.		
H Final Hydrostatic Mud	<u>2293</u> P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>22</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	<u>0</u> <u>70</u>	<u>0</u> <u>70</u>	<u>0</u> <u>81</u>	<u>0</u> <u>79</u>			
P 2	<u>5</u> <u> </u>	<u>3</u> <u>74</u>	<u>5</u> <u> </u>	<u>3</u> <u> </u>			
P 3	<u>10</u> <u> </u>	<u>6</u> <u>100</u>	<u>10</u> <u> </u>	<u>6</u> <u> </u>			
P 4	<u>15</u> <u> </u>	<u>9</u> <u>138</u>	<u>15</u> <u>81</u>	<u>9</u> <u> </u>			
P 5	<u>20</u> <u> </u>	<u>12</u> <u>182</u>	<u>20</u> <u>80</u>	<u>12</u> <u> </u>			
P 6	<u>25</u> <u> </u>	<u>15</u> <u>238</u>	<u>25</u> <u>80</u>	<u>15</u> <u>79</u>			
P 7	<u>30</u> <u>70</u>	<u>18</u> <u>299</u>	<u>30</u> <u>79</u>	<u>18</u> <u>79</u>			
P 8	<u>35</u> <u> </u>	<u>21</u> <u>373</u>	<u>35</u> <u> </u>	<u>21</u> <u>87</u>			
P 9	<u>40</u> <u> </u>	<u>24</u> <u>456</u>	<u>40</u> <u> </u>	<u>24</u> <u>92</u>			
P10	<u>45</u> <u> </u>	<u>27</u> <u>546</u>	<u>45</u> <u> </u>	<u>27</u> <u>102</u>			
P11	<u>50</u> <u> </u>	<u>30</u> <u>633</u>	<u>50</u> <u> </u>	<u>30</u> <u>111</u>			
P12	<u>55</u> <u> </u>	<u>33</u> <u>716</u>	<u>55</u> <u> </u>	<u>33</u> <u>121</u>			
P13	<u>60</u> <u> </u>	<u>36</u> <u>793</u>	<u>60</u> <u>79</u>	<u>36</u> <u>131</u>			
P14	<u> </u> <u> </u>	<u>39</u> <u>873</u>	<u>65</u> <u> </u>	<u>39</u> <u>140</u>			
P15	<u> </u> <u> </u>	<u>42</u> <u>933</u>	<u>70</u> <u> </u>	<u>42</u> <u>148</u>			
P16	<u> </u> <u> </u>	<u>45</u> <u>987</u>	<u>75</u> <u> </u>	<u>45</u> <u>159</u>			
P17	<u> </u> <u> </u>	<u>48</u> <u>1038</u>	<u>80</u> <u> </u>	<u>48</u> <u>169</u>			
P18	<u> </u> <u> </u>	<u>51</u> <u>1075</u>	<u>85</u> <u> </u>	<u>51</u> <u>179</u>			
P19	<u> </u> <u> </u>	<u>54</u> <u>1113</u>	<u>90</u> <u> </u>	<u>54</u> <u>190</u>			
P20	<u> </u> <u> </u>	<u>57</u> <u>1142</u>	<u> </u> <u> </u>	<u>57</u> <u>200</u>			
		<u>60</u> <u>1196</u>		<u>60</u> <u>211</u>			
				<u>63</u> <u>222</u>			
				<u>11</u> <u>230</u>			

Company SLMW Energy Company Lease & Well No. Hemberger #1
Elevation 1366 Kelly Bushing Formation Simpson Effective Pay -- Ft. Ticket No. 3093
Date 12/19/80 Sec. 29 Twp. 30S Range 3W County Sumner State Kansas
Test Approved by Jerry A. Smith Western Representative Wynn Weir

Formation Test No. 2 Interval Tested from 4294 ft. to 4310 ft. Total Depth 4310 ft.

Packer Depth 4294 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 4289 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set --

Top Recorder Depth (Inside) 4303 ft. Recorder Number 1559 Cap. 4200

Bottom Recorder Depth (Outside) 4306 ft. Recorder Number 5666 Cap. 3950

Below Straddle Recorder Depth -- ft. Recorder Number -- Cap. --

Drilling Contractor Dunne-Gardner Drlg. Rig #1 Drill Collar Length -- I. D. -- in.

Mud Type premix-monpac Viscosity 56 Weight Pipe Length 733 I. D. 2.7 in.

Weight 9.7 Water Loss 11 cc. Drill Pipe Length 3577 I. D. 3.8 in.

Chlorides 8,000 P.P.M. Test Tool Length 40 ft. Tool Size 5 1/2 in.

Jars: Make -- Serial Number -- Anchor Length 16 ft. Size 5 1/2 in.

Did Well Flow? NO Reversed Out NO Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Fair diminished, weak fifty minutes.

Recovered 125 ft. of drilling mud with oil scum on top of tool

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 1:40 A.M. Time Started Off Bottom 4:40 P.M. Maximum Temperature 126°

Initial Hydrostatic Pressure 2308 (A) P.S.I.

Initial Flow Period 30 Minutes (B) 70 P.S.I. to (C) 70 P.S.I.

Initial Closed In Period 60 Minutes (D) 1196 P.S.I.

Final Flow Period 60 Minutes (E) 81 P.S.I. to (F) 79 P.S.I.

Final Closed In Period 66 Minutes (G) 230 P.S.I.

Final Hydrostatic Pressure 2293 (H) P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 12/19/80 Recorder No. 1559 Capacity 4200 Test Ticket No. 3093
 Clock No. - Elevation 1366 Kelly Bushing Location 4303 Ft. -
 Well Temperature 126 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud <u>2308</u> P.S.I.	Open Tool	<u>1:40P</u> M	
B First Initial Flow Pressure <u>70</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure <u>70</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure <u>1196</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure <u>81</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>66</u> Mins.
F Second Final Flow Pressure <u>79</u> P.S.I.			
G Final Closed-in Pressure <u>230</u> P.S.I.			
H Final Hydrostatic Mud <u>2293</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 6 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

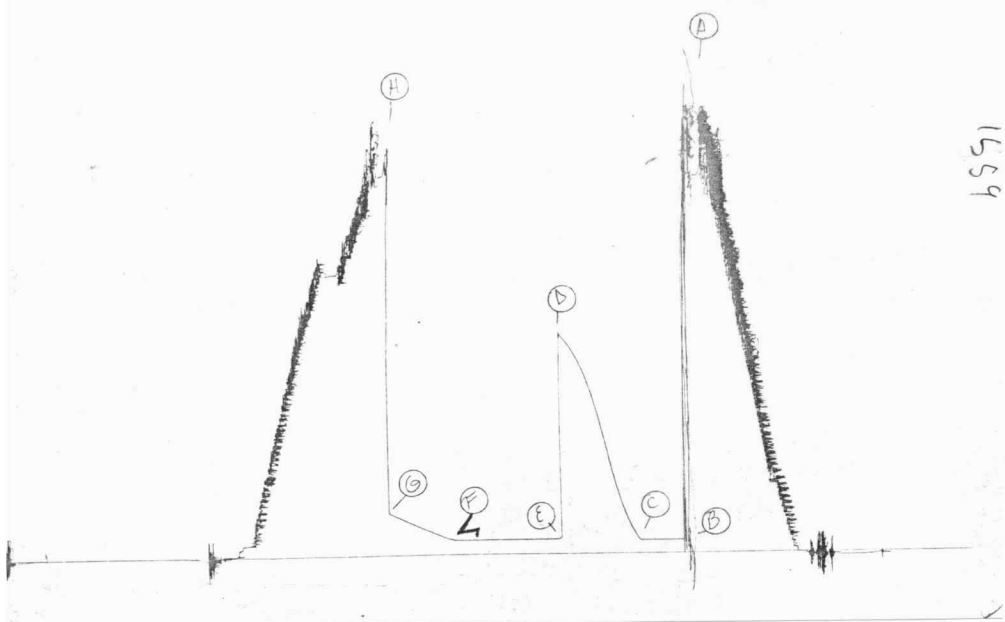
Initial Shut-In
 Breakdown: 20 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Second Flow Pressure
 Breakdown: 12 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 22 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>70</u>	<u>0</u>	<u>70</u>	<u>0</u>	<u>81</u>	<u>0</u>	<u>79</u>
P 2 <u>5</u>	<u>70</u>	<u>3</u>	<u>74</u>	<u>5</u>	<u>81</u>	<u>3</u>	<u>79</u>
P 3 <u>10</u>	<u>70</u>	<u>6</u>	<u>100</u>	<u>10</u>	<u>81</u>	<u>6</u>	<u>79</u>
P 4 <u>15</u>	<u>70</u>	<u>9</u>	<u>138</u>	<u>15</u>	<u>81</u>	<u>9</u>	<u>79</u>
P 5 <u>20</u>	<u>70</u>	<u>12</u>	<u>182</u>	<u>20</u>	<u>80</u>	<u>12</u>	<u>79</u>
P 6 <u>25</u>	<u>70</u>	<u>15</u>	<u>238</u>	<u>25</u>	<u>80</u>	<u>15</u>	<u>79</u>
P 7 <u>30</u>	<u>70</u>	<u>18</u>	<u>299</u>	<u>30</u>	<u>79</u>	<u>18</u>	<u>79</u>
P 8		<u>21</u>	<u>373</u>	<u>35</u>	<u>79</u>	<u>21</u>	<u>87</u>
P 9		<u>24</u>	<u>456</u>	<u>40</u>	<u>79</u>	<u>24</u>	<u>92</u>
P10		<u>27</u>	<u>546</u>	<u>45</u>	<u>79</u>	<u>27</u>	<u>102</u>
P11		<u>30</u>	<u>633</u>	<u>50</u>	<u>79</u>	<u>30</u>	<u>111</u>
P12		<u>33</u>	<u>716</u>	<u>55</u>	<u>79</u>	<u>33</u>	<u>121</u>
P13		<u>36</u>	<u>793</u>	<u>60</u>	<u>79</u>	<u>36</u>	<u>131</u>
P14		<u>39</u>	<u>873</u>			<u>39</u>	<u>140</u>
P15		<u>42</u>	<u>933</u>			<u>42</u>	<u>148</u>
P16		<u>45</u>	<u>987</u>			<u>45</u>	<u>159</u>
P17		<u>48</u>	<u>1038</u>			<u>48</u>	<u>169</u>
P18		<u>51</u>	<u>1075</u>			<u>51</u>	<u>179</u>
P19		<u>54</u>	<u>1113</u>			<u>54</u>	<u>190</u>
P20		<u>57</u>	<u>1142</u>			<u>57</u>	<u>200</u>
		<u>60</u>	<u>1196</u>			<u>60</u>	<u>211</u>
						<u>63</u>	<u>222</u>
						<u>66</u>	<u>230</u>

TAT # 5093
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1559



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET

No 3094

P. O. BOX 1599
WICHITA, KANSAS 67201

PHONE (316) 838-0601

Elevation 1366 Kelly Bushi Formation Simpson Eff. Pay Ft.

District Augusta Date 12-20-80 Customer Order No. 5016
 COMPANY NAME S.L.M.W. Energy Co. % Denver Gardner Pet Inc 200 W Douglas St
 ADDRESS 4818 S. Knoxville, Tulsa, Okla. Wichita, KS.
 LEASE AND WELL NO. Hemburger #1 COUNTY Sumner STATE KS Sec. 29 Twp 30S Rge 3W
 Mail Invoice To Same Co. Name Same Address Same No. Copies Requested 1
 Mail Charts To Same Address Same No. Copies Requested 5

Formation Test No. 3 Interval Tested from 4309 ft. to 4318 ft. Total Depth 4318 ft.
 Packer Depth 4309 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4304 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 4293 ft. Recorder Number 1559 Cap. 4200
 Bottom Recorder Depth (Outside) 4296 ft. Recorder Number 5666 Cap. 3950
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor Sumner - Gardner Drilling #1 Drill Collar Length - I. D. - in.
 Mud Type Pre-mix mud Viscosity 56 Weight Pipe Length 733 I. D. 2.7 in.
 Weight 9.7 Water Loss 11 cc. Drill Pipe Length 3546 I. D. 3.8 in.
 Chlorides 8000 P.P.M. Test Tool Length 39 in. Tool Size 5 1/2 in.
 Jars: Make - Serial Number - Anchor Length 9 ft. Size 5 1/2 in.
 Did Well Flow? no Reversed Out yes Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Strong throughoutRecovered 2440 ft. of gas cut muddy salt waterRecovered - ft. of -Recovered - ft. of -Recovered - ft. of -Recovered - ft. of -

Remarks:

on loc. stayed rig picked up tool 7:00 AM. off loc. 7:30 PM

Time Set Packer(s) 12:40 P.M. Time Started Off Bottom 3:10 P.M. Maximum Temperature 138
 Initial Hydrostatic Pressure 2185 P.S.I. (A) 2185 P.S.I.
 Initial Flow Period 30 Minutes (B) 240 P.S.I. to (C) 605 P.S.I.
 Initial Closed In Period 60 Minutes (D) 1345 P.S.I.
 Final Flow Period 60 Minutes (E) 660 P.S.I. to (F) 1140 P.S.I.
 Final Closed In Period 60 Minutes (G) 1335 P.S.I.
 Final Hydrostatic Pressure 2185 P.S.I. (H) 2185 P.S.I.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By [Signature]
Signature of Customer or his authorized representativeWestern Representative [Signature]

FIELD INVOICE

Open Hole Test \$ 600.00
 Misrun \$ -
 Straddle Test \$ -
 Jars \$ -
 Selective Zone \$ -
 Safety Joint \$ 50.00
 Standby \$ -
 Evaluation \$ -
 Extra Packer \$ -
 Circ. Sub. \$ 30.00
 Mileage \$ 40.50
 Extra Charts \$ -

TOTAL

\$ 720.50

WESTERN TESTING CO., INC.

Pressure Data

Date 12-20 Test Ticket No. 3094
 Recorder No. 1559 Capacity 4200 Location 4293 Ft.
 Clock No. Elevation 1366 KB Well Temperature 138 °F

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2185</u> P.S.I.		<u>12:40</u> P _M	
B First Initial Flow Pressure	<u>262</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>614</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1354</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>658</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>63</u> Mins.
F Second Final Flow Pressure	<u>1136</u> P.S.I.			
G Final Closed-in Pressure	<u>1348</u> P.S.I.			
H Final Hydrostatic Mud	<u>2185</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>21</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	<u>0</u>	<u>0</u>	<u>262</u>	<u>0</u>	<u>658</u>	<u>0</u>	<u>1136</u>
P 2	<u>5</u>	<u>3</u>	<u>367</u>	<u>5</u>	<u>700</u>	<u>3</u>	<u>1291</u>
P 3	<u>10</u>	<u>6</u>	<u>408</u>	<u>10</u>	<u>756</u>	<u>6</u>	<u>1314</u>
P 4	<u>15</u>	<u>9</u>	<u>450</u>	<u>15</u>	<u>805</u>	<u>9</u>	<u>1324</u>
P 5	<u>20</u>	<u>12</u>	<u>502</u>	<u>20</u>	<u>856</u>	<u>12</u>	<u>1329</u>
P 6	<u>25</u>	<u>15</u>	<u>554</u>	<u>25</u>	<u>904</u>	<u>15</u>	<u>1333</u>
P 7	<u>30</u>	<u>18</u>	<u>614</u>	<u>30</u>	<u>946</u>	<u>18</u>	<u>1335</u>
P 8	<u>35</u>	<u>21</u>		<u>35</u>	<u>989</u>	<u>21</u>	<u>1337</u>
P 9	<u>40</u>	<u>24</u>		<u>40</u>	<u>1025</u>	<u>24</u>	<u>1339</u>
P10	<u>45</u>	<u>27</u>		<u>45</u>	<u>1059</u>	<u>27</u>	<u>1341</u>
P11	<u>50</u>	<u>30</u>		<u>50</u>	<u>1091</u>	<u>30</u>	<u>1343</u>
P12	<u>55</u>	<u>33</u>		<u>55</u>	<u>1117</u>	<u>33</u>	<u>1344</u>
P13	<u>60</u>	<u>36</u>		<u>60</u>	<u>1136</u>	<u>36</u>	<u>1345</u>
P14		<u>39</u>		<u>65</u>		<u>39</u>	<u>1346</u>
P15		<u>42</u>		<u>70</u>		<u>42</u>	<u>1346</u>
P16		<u>45</u>		<u>75</u>		<u>45</u>	<u>1347</u>
P17		<u>48</u>		<u>80</u>		<u>48</u>	<u>1348</u>
P18		<u>51</u>		<u>85</u>		<u>51</u>	
P19		<u>54</u>		<u>90</u>		<u>54</u>	
P20		<u>57</u>				<u>57</u>	
		<u>60</u>				<u>60</u>	
						<u>63</u>	<u>1348</u>

Company S.L.M.W. Energy Company Lease & Well No. Hemberger #1
 Elevation 1366 Kelly Bushing Formation Simpson Effective Pay -- Ft. Ticket No. 3094
 Date 12/20/80 Sec. 29 Twp. 30S Range 3W County Sumner State Kansas
 Test Approved by Jerry A. Smith Western Representative Wynn Weir
 Formation Test No. 3 Interval Tested from 4309 ft. to 4318 ft. Total Depth 4318 ft.
 Packer Depth 4309 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4304 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 4293 ft. Recorder Number 1559 Cap. 4200
 Bottom Recorder Depth (Outside) 4296 ft. Recorder Number 5666 Cap. 3950
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor Dunne-Gardner Drlg. Rig #1 Drill Collar Length - I. D. - in.
 Mud Type premix-monpac Viscosity 56 Weight Pipe Length 733 I. D. 2.7 in.
 Weight 9.7 Water Loss 11 cc. Drill Pipe Length 3546 I. D. 3.8 in.
 Chlorides 8,000 P.P.M. Test Tool Length 39 ft. Tool Size 5 1/2 in.
 Jars: Make - Serial Number - Anchor Length 9 ft. Size 5 1/2 in.
 Did Well Flow? No Reversed Out Yes Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Strong throughout test.

Recovered 2440 ft. of gas cut muddy salt water

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 12:40 A.M. Time Started Off Bottom 3:10 A.M. Maximum Temperature 138°
 Initial Hydrostatic Pressure (A) 2185 P.S.I.
 Initial Flow Period Minutes 30 (B) 262 P.S.I. to (C) 614 P.S.I.
 Initial Closed In Period Minutes 60 (D) 1354 P.S.I.
 Final Flow Period Minutes 60 (E) 658 P.S.I. to (F) 1136 P.S.I.
 Final Closed In Period Minutes 63 (G) 1348 P.S.I.
 Final Hydrostatic Pressure (H) 2185 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 12/20/80 Test Ticket No. 3094
 Recorder No. 1559 Capacity 4200 Location 4293 Ft.
 Clock No. _____ Elevation 1366 Kelly Bushing Well Temperature 138 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2185	P.S.I.	12:40P	M
B First Initial Flow Pressure	262	P.S.I.	30	Mins. 30 Mins.
C First Final Flow Pressure	614	P.S.I.	60	Mins. 60 Mins.
D Initial Closed-in Pressure	1354	P.S.I.	60	Mins. 60 Mins.
E Second Initial Flow Pressure	658	P.S.I.	60	Mins. 63 Mins.
F Second Final Flow Pressure	1136	P.S.I.		
G Final Closed-in Pressure	1348	P.S.I.		
H Final Hydrostatic Mud	2185	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>21</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>262</u>	<u>0</u>	<u>614</u>	<u>0</u>	<u>658</u>	<u>0</u>	<u>1136</u>
P 2 <u>5</u>	<u>367</u>	<u>3</u>	<u>1229</u>	<u>5</u>	<u>700</u>	<u>3</u>	<u>1291</u>
P 3 <u>10</u>	<u>408</u>	<u>6</u>	<u>1290</u>	<u>10</u>	<u>756</u>	<u>6</u>	<u>1314</u>
P 4 <u>15</u>	<u>450</u>	<u>9</u>	<u>1316</u>	<u>15</u>	<u>805</u>	<u>9</u>	<u>1324</u>
P 5 <u>20</u>	<u>502</u>	<u>12</u>	<u>1330</u>	<u>20</u>	<u>856</u>	<u>12</u>	<u>1329</u>
P 6 <u>25</u>	<u>554</u>	<u>15</u>	<u>1334</u>	<u>25</u>	<u>904</u>	<u>15</u>	<u>1333</u>
P 7 <u>30</u>	<u>614</u>	<u>18</u>	<u>1338</u>	<u>30</u>	<u>946</u>	<u>18</u>	<u>1335</u>
P 8 _____		<u>21</u>	<u>1340</u>	<u>35</u>	<u>989</u>	<u>21</u>	<u>1337</u>
P 9 _____		<u>24</u>	<u>1343</u>	<u>40</u>	<u>1025</u>	<u>24</u>	<u>1339</u>
P10 _____		<u>27</u>	<u>1346</u>	<u>45</u>	<u>1059</u>	<u>27</u>	<u>1341</u>
P11 _____		<u>30</u>	<u>1349</u>	<u>50</u>	<u>1091</u>	<u>30</u>	<u>1343</u>
P12 _____		<u>33</u>	<u>1350</u>	<u>55</u>	<u>1117</u>	<u>33</u>	<u>1344</u>
P13 _____		<u>36</u>	<u>1350</u>	<u>60</u>	<u>1136</u>	<u>36</u>	<u>1345</u>
P14 _____		<u>39</u>	<u>1351</u>			<u>39</u>	<u>1346</u>
P15 _____		<u>42</u>	<u>1351</u>			<u>42</u>	<u>1346</u>
P16 _____		<u>45</u>	<u>1352</u>			<u>45</u>	<u>1347</u>
P17 _____		<u>48</u>	<u>1352</u>			<u>48</u>	<u>1348</u>
P18 _____		<u>51</u>	<u>1353</u>			<u>51</u>	<u>1348</u>
P19 _____		<u>54</u>	<u>1353</u>			<u>54</u>	<u>1348</u>
P20 _____		<u>57</u>	<u>1354</u>			<u>57</u>	<u>1348</u>
		<u>60</u>	<u>1354</u>			<u>60</u>	<u>1348</u>
						<u>63</u>	<u>1348</u>

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