WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No. 8484 OK

P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201

Elevation 1724 Gl Formation Douglas Sand Eff. Pay Ft.

District PratT Date 11-30-80 Customer Order No.

COMPANY NAME Pan-Western Petroleum Co. Inc. OK 1408 Douglas Bldg

ADDRESS OK 104 South Broadway Wichita, Kans 67202

LEASE AND WELL NO. "99" Springs #1 COUNTY Barber STATE Kansas Sec. 25 Twp. 30S Rge. 12W

Mail Invoice To Same No. Copies Requested Log
Co. Name Address

Mail Charts To Same one copy to Toby Elster No. Copies Requested Log
Address

Formation Test No. 1 Interval Tested from 3647 ft. to 3700 ft. Total Depth 3700 ft.

Packer Depth 3642 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.

Packer Depth 3647 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside) 3649 ft. Recorder Number 2606 Cap. 4150

Bottom Recorder Depth (Outside) 3652 ft. Recorder Number 4332 Cap. 4200

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

Drilling Contractor Gabbert & Jones Rig 6 Drill Collar Length 442 I. D. 2 1/4 in.

Mud Type Premix Starch Viscosity 44 Weight Pipe Length — I. D. — in.

Weight 9.4 Water Loss 15.0 cc. Drill Pipe Length 3214 I. D. 3.8 in.

Chlorides 32,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.

Jars: Make NO Serial Number — Anchor Length 29 + 24 ft. Size 6" + 5 1/2 OD 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 blow through out test - no gas to surface

Recovered 3030 ft. of muddy water chlorides 56,000 P.P.M.

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time On Location 12:00 M A.M. P.M. Time Pick Up Tool 8:00 A.M. P.M. Time Off Location A.M. P.M.

Time Set Packer(s) 9:50 A.M. P.M. Time Started Off Bottom 1:50 A.M. P.M. Maximum Temperature 113° f

Initial Hydrostatic Pressure		(A)	1873	P.S.I.		
Initial Flow Period	Minutes 60	(B)	416	P.S.I. to	(C)	1142 P.S.I.
Initial Closed In Period	Minutes 60	(D)	1381	P.S.I.		
Final Flow Period	Minutes 60	(E)	1241	P.S.I. to	(F)	1357 P.S.I.
Final Closed In Period	Minutes 60	(G)	1381	P.S.I.		
Final Hydrostatic Pressure		(H)	1821	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 Toby Elster, Toby Elster
Signature of Customer or his authorized representative

Western Representative Rod Trith Thank You.
Rod Trith

FIELD INVOICE

Open Hole Test	$	550.00
Misrun	$	
Straddle Test	$	
Jars	$	
Selective Zone	$	
Safety Joint	$	
Standby 3 hrs	$	60.00 108
Evaluation	$	
Extra Packer	$	
Circ. Sub. OK	$	30.00
Mileage	$	25 mi 18.2
Fluid Sampler	$	
Extra Charts	$	
Insurance	$	
TOTAL	$	67

WESTERN TESTING CO., INC.
Pressure Data

Date 11-30 Test Ticket No. 8484

Recorder No. 2606 Capacity 4150 Location 3649 Ft.

Clock No. _____ Elevation 1724 GL Well Temperature 113 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1886 P.S.I.	Open Tool	9:50 AM	
B First Initial Flow Pressure	410 * P.S.I.	First Flow Pressure	60 Mins.	50 Mins.
C First Final Flow Pressure	1167 * P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	1383 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	1246 P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F Second Final Flow Pressure	1366 P.S.I.			
G Final Closed-in Pressure	1384 P.S.I.			
H Final Hydrostatic Mud	1811 P.S.I.			

* Pressures questionable due to plugging action.

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 10 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Mins.	Press.
P 1 0	410 *
P 2 5	624 *
P 3 10	846 *
P 4 15	921 *
P 5 20	929 *
P 6 25	1031 *
P 7 30	1087 *
P 8 35	1091 *
P 9 40	1092 *
P10 45	1170 *
P11 50	1167 *
P12 ~~55~~	*
P13 ~~60~~	*
P14	
P15	
P16	
P17	
P18	
P19	
P20	

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

Point Minutes	Press.
0	1167 *
3	1334
6	1346
9	1352
12	1358
15	1359
18	1361
21	1363
24	1365
27	1367
30	1369
33	1371
36	1373
39	1375
42	1377
45	1379
48	1379
51	1380
54	1381
57	1382
60	1383

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

Point Minutes	Press.
0	1246
5	1250
10	1263
15	1288
20	1309
25	1325
30	1338
35	1346
40	1352
45	1358
50	1361
55	1363
60	1366
65	
70	
75	
80	
85	
90	

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

Point Minutes	Press.
0	1366
3	1368
6	1370
9	1372
12	1374
15	1375
18	1376
21	1377
24	1378
27	1379
30	1380
33	1381
36	1382
39	1383
42	1384
45	1384
48	
51	
54	
57	
60	1384

2606 DST #1

IKT #8484

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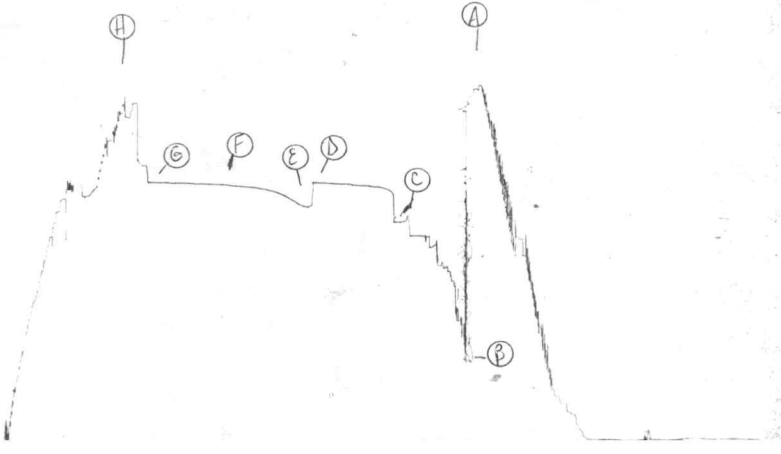

Company Pan-Western Petroleum, Inc. Lease & Well No. "99" Springs #1

Elevation 1724 Ground Level Formation Douglas Sand Effective Pay - Ft. Ticket No. 8484

Date 11-30-80 Sec. 25 Twp. 30S Range 12W County Barber State Kansas

Test Approved by Toby Elster Western Representative Rod Tritt

Formation Test No. 1 Interval Tested from 3647 ft. to 3700 ft. Total Depth 3700 ft.

Packer Depth 3642 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 3647 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3649 ft. Recorder Number 2606 Cap. 4150

Bottom Recorder Depth (Outside) 3652 ft. Recorder Number 4332 Cap. 4200

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

Drilling Contractor Gabbert & Jones Rig #6 Drill Collar Length 442 I. D. 2¼ in.

Mud Type Premix Starch Viscosity 44 Weight Pipe Length - I. D. - in.

Weight 9.4 Water Loss 15.0 cc. Drill Pipe Length 3214 I. D. 3.8 in.

Chlorides 32,000 P.P.M. Test Tool Length 20 ft. Tool Size 5½OD in.

Jars: Make No Serial Number - Anchor Length 29 + 24 ft. Size DC6+ 5½OD 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 4½FH in.

Blow: Strong blow throughout test. No gas to surface

Recovered 3030 ft. of muddy water Chlorides 86,000 PPM

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 9:50 ~~A.M.~~ P.M. Time Started Off Bottom 1:50 ~~A.M.~~ P.M. Maximum Temperature 113

Initial Hydrostatic Pressure		(A) 1886	P.S.I.	
Initial Flow Period	Minutes 50	(B) 410 *	P.S.I. to (C) 1167 *	P.S.I.
Initial Closed In Period	Minutes 60	(D) 1383	P.S.I.	
Final Flow Period	Minutes 60	(E) 1246	P.S.I. to (F) 1366	P.S.I.
Final Closed In Period	Minutes 60	(G) 1384	P.S.I.	
Final Hydrostatic Pressure		(H) 1811	P.S.I.	

WESTERN TESTING CO., INC.
Pressure Data

Date 11/30/80 Test Ticket No. 8484

Recorder No. 2606 Capacity 4150 Location 3649 Ft.

Clock No. ---- Elevation 1724 Ground Level Well Temperature 113 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1886 P.S.I.	Open Tool	9:50A M	
B First Initial Flow Pressure	410 * P.S.I.	First Flow Pressure	60 Mins.	50 Mins.
C First Final Flow Pressure	1167 * P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	1383 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	1246 P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F Second Final Flow Pressure	1366 P.S.I.			
G Final Closed-in Pressure	1384 P.S.I.			
H Final Hydrostatic Mud	1811 P.S.I.			

* Pressures questionable due to plugging action.

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: 10 Inc.		Breakdown: 20 Inc.		Breakdown: 12 Inc.		Breakdown: 20 Inc.	
of 5 mins. and a		of 3 mins. and a		of 5 mins. and a		of 3 mins. and a	
final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	410 *	0	1167 *	0	1246	0	1366
P 2 5	624 *	3	1334	5	1250	3	1368
P 3 10	846 *	6	1346	10	1263	6	1370
P 4 15	921 *	9	1352	15	1288	9	1372
P 5 20	929 *	12	1358	20	1309	12	1374
P 6 25	1031*	15	1359	25	1325	15	1375
P 7 30	1087*	18	1361	30	1338	18	1376
P 8 35	1091*	21	1363	35	1346	21	1377
P 9 40	1092*	24	1365	40	1352	24	1378
P10 45	1170*	27	1367	45	1358	27	1379
P11 50	1167*	30	1369	50	1361	30	1380
P12 55		33	1371	55	1363	33	1381
P13 60		36	1373	60	1366	36	1382
P14		39	1375			39	1383
P15		42	1377			42	1384
P16		45	1379			45	1384
P17		48	1379			48	1384
P18		51	1380			51	1384
P19		54	1381			54	1384
P20		57	1382			57	1384
		60	1383			60	1384

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No. 8721

P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201

Elevation 1729 RB Formation Lansing Eff. Pay — Ft.

District Great Bend Date 12-1-80 Customer Order No. —

COMPANY NAME Pan-Western Petroleum Inc.

ADDRESS 1408 Douglas Bldg., 104 S. Broadway, Wichita, Kansas 67202

LEASE AND WELL NO. "99" Springs #1 COUNTY Barber STATE Kansas Sec. 25 Twp. 30 Rge. 12

Mail Invoice To Same as above Co. Name No. Copies Requested 5

Mail Charts To Same as above Address Copy to Toby Elster No. Copies Requested 5

Formation Test No. 2 Interval Tested from 3771 ft. to 3780 ft. Total Depth 3780 ft.

Packer Depth 3766 ft. Size 6 3/8 in. Packer Depth — ft. Size — in.

Packer Depth 3771 ft. Size 6 3/8 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside) 3772 ft. Recorder Number 6074 Cap. 5100

Bottom Recorder Depth (Outside) 3775 ft. Recorder Number 10979 Cap. 4180

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

Drilling Contractor Gabbert-Jones Drlg. Co. Rig #6 Drill Collar Length 30 I. D. 2¼ in.

Mud Type starch Viscosity 44 Weight Pipe Length — I. D. — in.

Weight 9.4 Water Loss 15 cc. Drill Pipe Length 3720 I. D. 3.8 in.

Chlorides 32,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 XH in.

Jars: Make — Serial Number — Anchor Length 9 ft. Size 5 1/2 XH 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: Weak blow increased to strong blow during both flow periods.

Recovered 150 ft. of Water

Recovered — ft. of —

Recovered — ft. of —

Recovered — ft. of —

Recovered — ft. of —

Remarks: Tight Hole

RECEIVED DEC 2- 1980

Time On Location	A.M. P.M.	Time Pick Up Tool	A.M. P.M.	Time Off Location	A.M. P.M.	
Time Set Packer(s)	5:10 A.M. P.M.	Time Started Off Bottom	9:10 A.M. P.M.	Maximum Temperature	122°	
Initial Hydrostatic Pressure		(A)	1877	P.S.I.		
Initial Flow Period	Minutes 60	(B)	115	P.S.I. to (C)	511	P.S.I.
Initial Closed In Period	Minutes 60	(D)	1303	P.S.I.		
Final Flow Period	Minutes 60	(E)	537	P.S.I. to (F)	792	P.S.I.
Final Closed In Period	Minutes 60	(G)	1303	P.S.I.		
Final Hydrostatic Pressure		(H)	1864	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 Toby Elster
Signature of Customer or his authorized representative

Western Representative Vernon (Wondra)

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 24 mi	$ 18.00
Fluid Sampler	$ —
Extra Charts	$ —
Insurance	$ —
TOTAL	$ 598.00

WESTERN TESTING CO., INC.
Pressure Data

Date 12-1 Test Ticket No. 8721

Recorder No. 6074 Capacity 5100 Location 3772 Ft.

Clock No. — Elevation 1729 KB Well Temperature 122 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1885 P.S.I.	Open Tool	5:10 AM	
B First Initial Flow Pressure	124 P.S.I.	First Flow Pressure	60 Mins.	60 Mins.
C First Final Flow Pressure	514 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	1316 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	537 P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F Second Final Flow Pressure	794 P.S.I.			
G Final Closed-in Pressure	1313 P.S.I.			
H Final Hydrostatic Mud	1875 P.S.I.			

PRESSURE BREAKDOWN

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

Point Mins.		Press.
P 1	0	124
P 2	5	136
P 3	10	183
P 4	15	225
P 5	20	266
P 6	25	304
P 7	30	343
P 8	35	378
P 9	40	409
P10	45	445
P11	50	475
P12	55	503
P13	60	514
P14		
P15		
P16		
P17		
P18		
P19		
P20		

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

Point Minutes	Press.
0	514
3	1240
6	1267
9	1282
12	1292
15	1297
18	1300
21	1303
24	1305
27	1307
30	1310
33	1310
36	1311
39	1311
42	1312
45	1313
48	1313
51	1314
54	1315
57	1315
60	1316

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

Point Minutes	Press.
0	537
5	554
10	581
15	606
20	631
25	657
30	678
35	700
40	721
45	741
50	764
55	782
60	794
65	
70	
75	
80	
85	
90	

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

Point Minutes	Press.
0	794
3	1262
6	1283
9	1291
12	1296
15	1300
18	1302
21	1303
24	1304
27	1305
30	1306
33	1306
36	1307
39	1308
42	1308
45	1309
48	1309
51	1310
54	1311
57	1312
60	1313

TK# 8721

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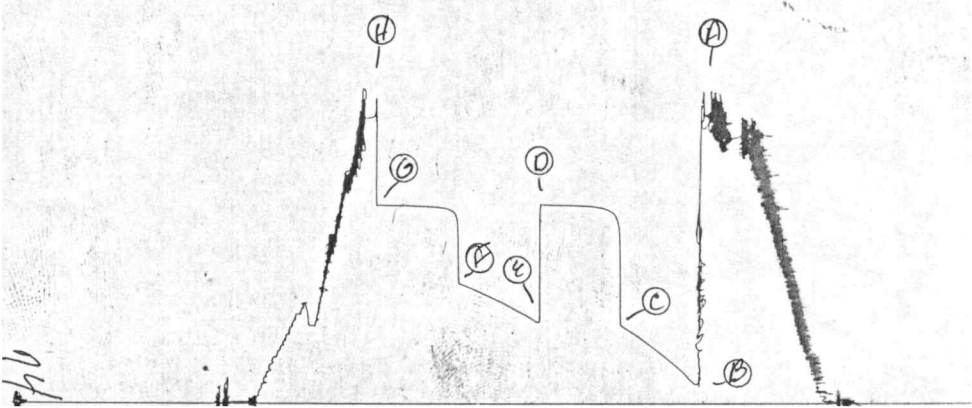

Company Pan-Western Petroleum, Inc. Lease & Well No. "99" Springs #1

Elevation 1729 Kelly Bushing Formation Lansing Effective Pay -- Ft. Ticket No. 8721

Date 12/1/90 Sec. 25 Twp. 30S Range 12W County Barber State Kansas

Test Approved by Toby Elster Western Representative Vernon Wondra

Formation Test No. 2 Interval Tested from 3771 ft. to 3780 ft. Total Depth 3780 ft.

Packer Depth 3766 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth 3771 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3772 ft. Recorder Number 6074 Cap. 5100

Bottom Recorder Depth (Outside) 3775 ft. Recorder Number 10979 Cap. 4100

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

Drilling Contractor Gabbert-Jones Drlg. Rig #6 Drill Collar Length 30 I. D. 2¼ in.

Mud Type starch Viscosity 44 Weight Pipe Length - I. D. - in.

Weight 9.4 Water Loss 15 cc. Drill Pipe Length 3720 I. D. 3.8 in.

Chlorides 32,000 P.P.M. Test Tool Length 21 ft. Tool Size 5½OD in.

Jars: Make -- Serial Number - Anchor Length 9 ft. Size 5½OD 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 4½FH in.

Blow: Weak blow increased to strong blow during both flow periods.

Recovered 1510 ft. of water

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: TIGHT HOLE

Time Set Packer(s) 5:10 A.M. ~~P.M.~~ Time Started Off Bottom 9:10 A.M. ~~P.M.~~ Maximum Temperature 122°

Initial Hydrostatic Pressure			(A) 1885	P.S.I.		
Initial Flow Period	Minutes 60	(B) 124	P.S.I. to	(C) 514	P.S.I.	
Initial Closed In Period	Minutes 60	(D) 1316	P.S.I.			
Final Flow Period	Minutes 60	(E) 537	P.S.I. to	(F) 794	P.S.I.	
Final Closed In Period	Minutes 60	(G) 1313	P.S.I.			
Final Hydrostatic Pressure			(H) 1875	P.S.I.		

WESTERN TESTING CO., INC.
Pressure Data

Date 12/1/80 Test Ticket No. 8721

Recorder No. 6074 Capacity 5100 Location 3772 Ft.

Clock No. -- Elevation 1729 Kelly Bushing Well Temperature 122 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1885 P.S.I.		Open Tool	5:10A M	
B	First Initial Flow Pressure	124 P.S.I.		First Flow Pressure	60 Mins.	60 Mins.
C	First Final Flow Pressure	514 P.S.I.		Initial Closed-in Pressure	60 Mins.	60 Mins.
D	Initial Closed-in Pressure	1316 P.S.I.		Second Flow Pressure	60 Mins.	60 Mins.
E	Second Initial Flow Pressure	537 P.S.I.		Final Closed-in Pressure	60 Mins.	60 Mins.
F	Second Final Flow Pressure	794 P.S.I.				
G	Final Closed-in Pressure	1313 P.S.I.				
H	Final Hydrostatic Mud	1875 P.S.I.				

PRESSURE BREAKDOWN

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

Point	Mins.	Press.
P 1	0	124
P 2	5	136
P 3	10	182
P 4	15	225
P 5	20	266
P 6	25	304
P 7	30	343
P 8	35	378
P 9	40	409
P10	45	445
P11	50	475
P12	55	503
P13	60	514
P14		
P15		
P16		
P17		
P18		
P19		
P20		

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

Point	Minutes	Press.
	0	514
	3	1240
	6	1267
	9	1282
	12	1292
	15	1297
	18	1300
	21	1303
	24	1305
	27	1307
	30	1310
	33	1310
	36	1311
	39	1311
	42	1312
	45	1313
	48	1313
	51	1314
	54	1315
	57	1315
	60	1316

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

Point	Minutes	Press.
	0	537
	5	554
	10	581
	15	606
	20	631
	25	657
	30	678
	35	700
	40	721
	45	741
	50	764
	55	782
	60	794

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

Point	Minutes	Press.
	0	794
	3	1262
	6	1283
	9	1291
	12	1296
	15	1300
	18	1302
	21	1303
	24	1304
	27	1305
	30	1306
	33	1306
	36	1307
	39	1308
	42	1308
	45	1309
	48	1309
	51	1310
	54	1311
	57	1312
	60	1313

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET Nº 8571

P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201

Elevation _____ Formation Miss Eff. Pay _____ Ft.

District Pratt Date 12-3-80 Customer Order No. _____

COMPANY NAME Pan-Western Petro ~~Co~~ Inc.

ADDRESS 1408 Douglas Bldg. 104 S Broadway Wichita

LEASE AND WELL NO. "99" Springs #1 COUNTY Barber STATE Ks Sec. 25 Twp. 30S Rge. 12W

Mail Invoice To Same No. Copies Requested Reg
Co. Name Address

Mail Charts To Same No. Copies Requested Reg
Address

Formation Test No. 3 Interval Tested from 4329 ft. to 4360 ft. Total Depth 4360 ft.

Packer Depth 4324 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.

Packer Depth 4329 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside) 4334 ft. Recorder Number 11018 Cap. 4425

Bottom Recorder Depth (Outside) 4337 ft. Recorder Number 11019 Cap. 4500

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

Drilling Contractor Cooper & Jones #6 Drill Collar Length 150 I. D. 2 1/4 in.

Mud Type Starch-Gel Viscosity 45 Weight Pipe Length — I. D. — in.

Weight 9.7 Water Loss 12.8 cc. Drill Pipe Length 4158 I. D. 4.0 in.

Chlorides 35,000 P.P.M. Test Tool Length 21 ft. Tool Size 3 1/2 in.

Jars: Make — Serial Number — Anchor Length 31 ft. Size 4 1/2 in. 1/2

Did Well Flow? — Reversed Out — Surface Choke Size 1/2 in. Bottom Choke Size 1/2 in.

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

Blow: Strong Gas to Surface AT Beginning of 2nd Flow Final Flow Period
See Gauge Sheet for gas measurements.

Recovered 200 ft. of DRLG MUD - Gassy 45,000 CHLORIDES

Recovered ____ ft. of

Recovered ____ ft. of

Recovered ____ ft. of

Recovered ____ ft. of

Remarks:

RECEIVED
DEC 8 - 1980

Time On Location	7:30 A.M. P.M.	Time Pick Up Tool	8:00 A.M. P.M.	Time Off Location	A.M. P.M.
Time Set Packer(s)	10:30 A.M. P.M.	Time Started Off Bottom	3:00 A.M. P.M.	Maximum Temperature	

Initial Hydrostatic Pressure		(A)	2188	P.S.I.		
Initial Flow Period	Minutes 60	(B)	55	P.S.I. to	(C) 55	P.S.I.
Initial Closed In Period	Minutes 60	(D)	809	P.S.I.		
Final Flow Period	Minutes 90	(E)	33	P.S.I. to	(F) 44	P.S.I.
Final Closed In Period	Minutes 60	(G)	975	P.S.I.		
Final Hydrostatic Pressure		(H)	2188	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 Ricky Foster
Signature of Customer or his authorized representative

Western Representative Stuart Stover

FIELD INVOICE

Open Hole Test	$ 600.00
Misrun	$
Straddle Test	$
Jars	$
Selective Zone	$
Safety Joint	$
Standby	$
Evaluation	$
Extra Packer	$
Circ. Sub.	$
Mileage	$
Fluid Sampler	$
Extra Charts	$
Insurance	$
TOTAL	$ 600.00

Phone 316 262-5861

WESTERN TESTERS

P. O. Box 1599

WICHITA, KANSAS 67201

No. 2353

GAS FLOW REPORT

Date 12-3-80 Ticket 8571 Company Pan-Western

Well Name and No. 99 Springs #1 Dst No. 3 Interval Tested 4329-4360

County BARBER State KS. Sec. 25 Twp. 30S Rg. 12W

Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	Size of Orifice	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	Description of Flow
PRE FLOW					
SECOND FLOW					
BLOW to Surface AT Opening					
16	4.0 PSIG	1/4" orifice			18,500 MCFPD
20	2.0	1/4"			12,700
30	1.0	1/4			8,950
40	1.0	1/4			8,950
50	1.0	1/4			8,950
60	1.0	1/4			8,950
70	1.0	1/4			8,950
80	1.0	1/4			8,950
90	1.0	1/4			8,950

GAS BOTTLE

Serial No. 102 Date Bottle Filled 12-3-80 Date to be Invoiced 1-3-80

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 Pan-Western

Authorized by Toby Elster

FORM WTC 9

WESTERN TESTING CO., INC.
Pressure Data

Date 12-3 Test Ticket No. 8571

Recorder No. 11018 Capacity 4425 Location 4334 Ft.

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2189 P.S.I.	Open Tool	10:30 M	
B First Initial Flow Pressure	89 P.S.I.	First Flow Pressure	60 Mins.	55 Mins.
C First Final Flow Pressure	50 P.S.I.	Initial Closed-in Pressure	60 Mins.	63 Mins.
D Initial Closed-in Pressure	805 P.S.I.	Second Flow Pressure	90 Mins.	95 Mins.
E Second Initial Flow Pressure	62 P.S.I.	Final Closed-in Pressure	60 Mins.	63 Mins.
F Second Final Flow Pressure	48 P.S.I.			
G Final Closed-in Pressure	978 P.S.I.			
H Final Hydrostatic Mud	2189 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 11 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Mins.	Press.
P 1 0	89
P 2 5	78
P 3 10	56
P 4 15	49
P 5 20	(
P 6 25	)
P 7 30	49
P 8 35	47
P 9 40	47
P10 45	47
P11 50	48
P12 55	50
P13 60	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 21 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	50
3	60
6	69
9	84
12	104
15	176
18	273
21	362
24	438
27	502
30	551
33	595
36	633
39	668
42	701
45	721
48	741
51	759
54	774
57	785
60	799
63	805

Second Flow Pressure
Breakdown: 19 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	62
5	47
10	42
15	40
20	40
25	40
30	42
35	42
40	43
45	43
50	44
55	45
60	46
65	46
70	47
75	48
80	(
85	)
90	48
95	48

Final Shut-In
Breakdown: 21 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	48
3	100
6	173
9	251
12	329
15	382
18	449
21	504
24	569
27	626
30	670
33	712
36	750
39	781
42	810
45	839
48	869
51	894
54	920
57	940
60	960
63	978

WTC - 4

TK #8571

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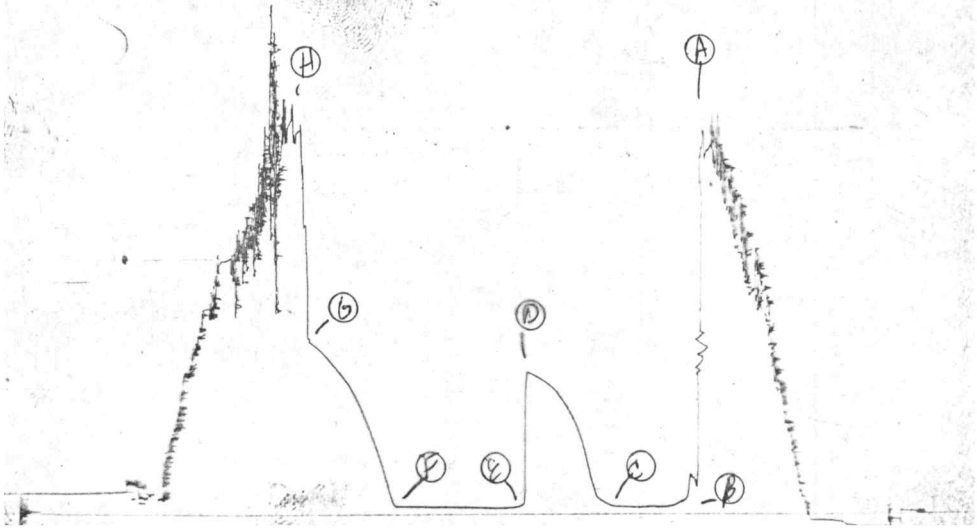

Company Pan Western Petroleum, Inc. Lease & Well No. "99" Springs #1

Elevation - Formation Mississippi Effective Pay - Ft. Ticket No. 8571

Date 12-3-80 Sec. 25 Twp. 30S Range 12W County Barber State Kansas

Test Approved by Toby Elster Western Representative Stuart Stover

Formation Test No. 3 Interval Tested from 4329 ft. to 4360 ft. Total Depth 4360 ft.

Packer Depth 4324 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4329 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4334 ft. Recorder Number 11018 Cap. 4425

Bottom Recorder Depth (Outside) 4337 ft. Recorder Number 11019 Cap. 4500

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

Drilling Contractor Gabbert & Jones Rig #6 Drill Collar Length 150 I. D. 2¼ in.

Mud Type Starch-gel Viscosity 45 Weight Pipe Length - I. D. - in.

Weight 9.7 Water Loss 12.8 cc. Drill Pipe Length 4158 I. D. 4.0 in.

Chlorides 35,000 P.P.M. Test Tool Length 21 ft. Tool Size 3½ in.

Jars: Make - Serial Number - Anchor Length 31 ft. Size 4½ in.

Did Well Flow? - Reversed Out - Surface Choke Size ½ in. Bottom Choke Size ½ in.

Main Hole Size 7 7/8 in. Tool Joint Size 4½FH in.

Blow: Strong gas to surface at beginning of final flow period. See attached sheet for gas measurements.

Recovered 200 ft. of drilling mud - gassy Chlorides 45,000 PPM

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 10:30 A.M. P.M. Time Started Off Bottom 3:00 A.M. P.M. Maximum Temperature -

Initial Hydrostatic Pressure			(A) 2189	P.S.I.		
Initial Flow Period	Minutes 55	(B) 89	P.S.I. to	(C) 50	P.S.I.	
Initial Closed In Period	Minutes 63	(D) 805	P.S.I.			
Final Flow Period	Minutes 95	(E) 62	P.S.I. to	(F) 48	P.S.I.	
Final Closed In Period	Minutes 63	(G) 978	P.S.I.			
Final Hydrostatic Pressure			(H) 2189	P.S.I.		

GAS FLOW REPORT

Date 12-3-80 Ticket 8571 Company Pan Western Petroleum, Inc.

Well Name and No. "99" Springs #1 Dst No. 3 Interval Tested 4329-4360

County Barber State Kansas Sec. 25 Twp. 30S Rg. 12W

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 opening.		**SECOND FLOW**			
	10 Min.	4.0 PSIG	¼" Orifice			18,500 C.F.P.D.
	20 Min.	2.0 PSIG	¼" Orifice			12,700 C.F.P.D.
	30 Min.	1.0 PSIG	¼" Orifice			8,950 C.F.P.D.
	40 Min.	1.0 PSIG	¼" Orifice			8,950 C.F.P.D.
	50 Min.	1.0 PSIG	¼" Orifice			8,950 C.F.P.D.
	60 Min.	1.0 PSIG	¼" Orifice			8,950 C.F.P.D.
	70 Min.	1.0 PSIG	¼" Orifice			8,950 C.F.P.D.
	80 Min.	1.0 PSIG	¼" Orifice			8,950 C.F.P.D.
	90 Min.	1.0 PSIG	½" Orifice			8,950 C.F.P.D.

GAS BOTTLE

Serial No. 102 Date Bottle Filled 12-3-80 Date to be Invoiced 12-3-80

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 Pan Western Petroleum Inc.

Authorized by Toby Elster

FORM WTC 6

WESTERN TESTING CO., INC.
Pressure Data

Date 12-3-80 Test Ticket No. 8571

Recorder No. 11018 Capacity 4425 Location 4334 Ft.

Clock No. ------ Elevation ---------- Well Temperature ----- °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2189 P.S.I.	Open Tool	10:30 M	
B First Initial Flow Pressure	89 P.S.I.	First Flow Pressure	60 Mins.	55 Mins.
C First Final Flow Pressure	50 P.S.I.	Initial Closed-in Pressure	60 Mins.	63 Mins.
D Initial Closed-in Pressure	805 P.S.I.	Second Flow Pressure	90 Mins.	95 Mins.
E Second Initial Flow Pressure	62 P.S.I.	Final Closed-in Pressure	60 Mins.	63 Mins.
F Second Final Flow Pressure	48 P.S.I.			
G Final Closed-in Pressure	978 P.S.I.			
H Final Hydrostatic Mud	2189 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 11 Inc. of 5 mins. and a final inc. of 0 Min.

Point Mins.	Press.
P 1 0	89
P 2 5	78
P 3 10	56
P 4 15	49
P 5 20	49
P 6 25	49
P 7 30	49
P 8 35	47
P 9 40	47
P10 45	47
P11 50	48
P12 55	50
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 21 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	50
3	60
6	69
9	84
12	104
15	176
18	273
21	362
24	438
27	502
30	551
33	595
36	633
39	668
42	701
45	721
48	741
51	759
54	774
57	785
60	799
63	805

Second Flow Pressure
Breakdown: 19 Inc. of 5 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	62
5	47
10	42
15	40
20	40
25	40
30	42
35	42
40	43
45	43
50	44
55	45
60	46
65	46
70	47
75	48
80	48
85	48
90	48
95	48

Final Shut-In
Breakdown: 21 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	48
3	100
6	173
9	251
12	329
15	382
18	449
21	504
24	569
27	626
30	670
33	712
36	750
39	781
42	810
45	839
48	869
51	894
54	920
57	940
60	960
63	978

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET Nº 8572

P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201

Elevation ____ Formation Miss Eff. Pay ____ Ft.

District Pratt Date 12-4-80 Customer Order No. ____

COMPANY NAME Pan Western Inc.

ADDRESS 1408 Douglas Bldg. 104 S. Broadway Wichita Ks

LEASE AND WELL NO. 99 Springs #1 COUNTY Barber STATE Ks Sec 25 Twp 30S Rge 12W

Mail Invoice To Same No. Copies Requested Reg
Co. Name Address

Mail Charts To Same No. Copies Requested Reg
Address

Formation Test No. 4 Interval Tested from 4337 ft. to 4387 ft. Total Depth 4387 ft.

Packer Depth 4332 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.

Packer Depth 4337 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set ____

Top Recorder Depth (Inside) 4342 ft. Recorder Number 11018 Cap. 4425

Bottom Recorder Depth (Outside) 4345 ft. Recorder Number 11019 Cap. 4500

Below Straddle Recorder Depth — ft. Recorder Number ____ Cap. ____

Drilling Contractor Gabbert-Jones #6 Drill Collar Length 240 I. D. 2 1/4 in.

Mud Type Starch-gel Viscosity 45 Weight Pipe Length — I. D. — in.

Weight 9.2 Water Loss 12.8 cc. Drill Pipe Length 3870 I. D. 4.0 in.

Chlorides 35,000 P.P.M. Test Tool Length 27 ft. Tool Size 3 1/2 in.

Jars: Make WTC Serial Number 3660 Anchor Length 50 ft. Size 4 1/2 in.

Did Well Flow? — Reversed Out ____ Surface Choke Size 1/2 in. Bottom Choke Size 1/2 in.

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

Blow: GOOD OFF BOTTOM OF BUCKET thru Out Test

Recovered 120 ft. of Gas in Pipe

Recovered 120 ft. of Gassy Drlg mud

Recovered 180 ft. of muddy Gassy WATER

Recovered ____ ft. of ____

Recovered ____ ft. of ____

Remarks: ____

RECEIVED
DEC 8 - 1980

Time On Location 3:00 A.M. P.M. Time Pick Up Tool 4:00 A.M. P.M. Time Off Location ____ A.M. P.M.

Time Set Packer(s) 5:30 A.M. P.M. Time Started Off Bottom 9:30 A.M. P.M. Maximum Temperature ____

Initial Hydrostatic Pressure			(A)	2233	P.S.I.	
Initial Flow Period	Minutes	60	(B)	88	P.S.I. to (C)	111 P.S.I.
Initial Closed In Period	Minutes	60	(D)	1482	P.S.I.	
Final Flow Period	Minutes	60	(E)	133	P.S.I. to (F)	155 P.S.I.
Final Closed In Period	Minutes	60	(G)	1383	P.S.I.	
Final Hydrostatic Pressure			(H)	2211	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 D. Ray Hester
Signature of Customer or his authorized representative

Western Representative Stuart Stover

FIELD INVOICE

Open Hole Test	$ 600.00
Misrun	$ ____
Straddle Test	$ 300.00
Jars	$ ____
Selective Zone	$ 50.00
Safety Joint N/C	$ ____
Standby	$ ____
Evaluation	$ ____
Extra Packer	$ ____
Circ. Sub.	$ ____
Mileage	$ ____
Fluid Sampler	$ ____
Extra Charts	$ ____
Insurance	$ ____
TOTAL	$ 950.00

WESTERN TESTING CO., INC.
Pressure Data

Date 12-4 Test Ticket No. 8572

Recorder No. 11018 Capacity 4425 Location 4342 Ft.

Clock No. Elevation Well Temperature °F

Point		Pressure	
A	Initial Hydrostatic Mud	2224	P.S.I.
B	First Initial Flow Pressure	100	P.S.I.
C	First Final Flow Pressure	120	P.S.I.
D	Initial Closed-in Pressure	1480	P.S.I.
E	Second Initial Flow Pressure	133	P.S.I.
F	Second Final Flow Pressure	159	P.S.I.
G	Final Closed-in Pressure	1396	P.S.I.
H	Final Hydrostatic Mud	2211	P.S.I.

	Time Given	Time Computed
Open Tool	5:30 M	
First Flow Pressure	60 Mins.	55 Mins.
Initial Closed-in Pressure	60 Mins.	69 Mins.
Second Flow Pressure	60 Mins.	60 Mins.
Final Closed-in Pressure	60 Mins.	66 Mins.

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 11 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Mins.		Press.
P 1	0	100
P 2	5	96
P 3	10	96
P 4	15	98
P 5	20	102
P 6	25	107
P 7	30	111
P 8	35	116
P 9	40	118
P10	45	119
P11	50	120
P12	55	120
P13	~~60~~	
P14		
P15		
P16		
P17		
P18		
P19		
P20		

Initial Shut-In
Breakdown: 23 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	120
3	178
6	300
9	424
12	558
15	686
18	808
21	918
24	1007
27	1073
30	1130
33	1187
36	1240
39	1278
42	1308
45	1337
48	1363
51	1388
54	1410
57	1427
60	1443
63	1460
66	1471

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

Point Minutes	Press.
0	133
5	133
10	136
15	138
20	142
25	146
30	148
35	150
40	152
45	153
50	155
55	157
60	159
65	
70	
75	
80	
85	
90	

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

Point Minutes	Press.
0	159
3	251
6	373
9	518
12	633
15	763
18	858
21	936
24	1004
27	1068
30	1126
33	1167
36	1203
39	1233
42	1256
45	1282
48	1304
51	1328
54	1348
57	1363
60	1379
63	1390
66	1396

WTC - 4

11018-8572

FH #8572.

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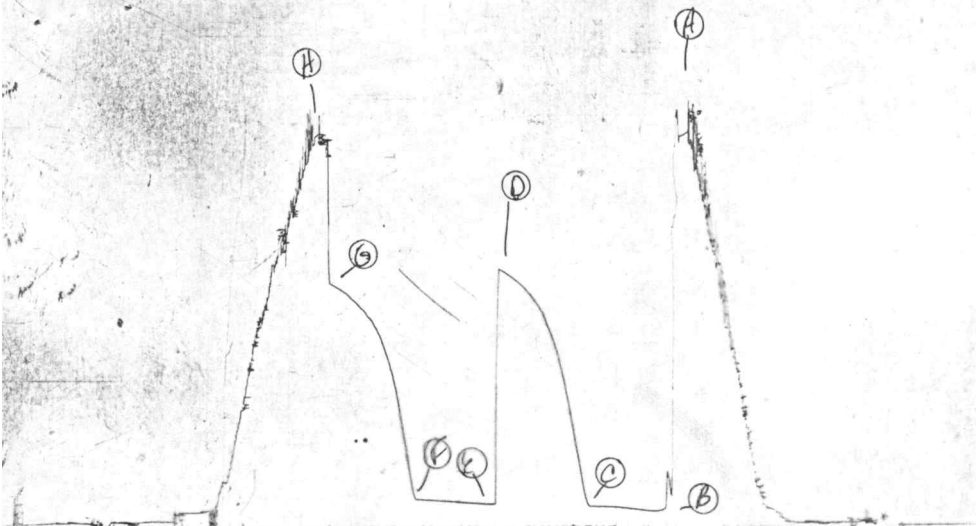

Company Pan Western Petroleum, Inc. Lease & Well No. "99" Springs #1

Elevation - Formation Mississippi Effective Pay - Ft. Ticket No. 8572

Date 12-4-80 Sec. 25 Twp. 30S Range 12W County Barber State Kansas

Test Approved by Toby Elster Western Representative Stuart Stover

Formation Test No. 4 Interval Tested from 4337 ft. to 4387 ft. Total Depth 4387 ft.

Packer Depth 4332 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4337 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4342 ft. Recorder Number 11018 Cap. 4425

Bottom Recorder Depth (Outside) 4345 ft. Recorder Number 11019 Cap. 4500

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

Drilling Contractor Gabbert-Jones Rig #6 Drill Collar Length 240 I. D. 2¼ in.

Mud Type Starch-gel Viscosity 45 Weight Pipe Length - I. D. - in.

Weight 9.7 Water Loss 12.8 cc. Drill Pipe Length 3870 I. D. 4.0 in.

Chlorides 35,000 P.P.M. Test Tool Length 27 ft. Tool Size 3½ in.

Jars: Make WTC Serial Number 3660 Anchor Length 50 ft. Size 4½ in.

Did Well Flow? - Reversed Out - Surface Choke Size ½ in. Bottom Choke Size ½ in.

Main Hole Size 7 7/8 in. Tool Joint Size 4½FH in.

Blow: Good off bottom of bucket throughout test.

Recovered 120 ft. of gas in pipe

Recovered 120 ft. of gassy drilling mud

Recovered 180 ft. of muddy gassy water

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 5:30 A.M. P.M. Time Started Off Bottom 9:30 A.M. P.M. Maximum Temperature -

Initial Hydrostatic Pressure			(A)	2224	P.S.I.	
Initial Flow Period	Minutes 55	(B)	100	P.S.I. to (C)	120	P.S.I.
Initial Closed In Period	Minutes 69	(D)	1480	P.S.I.		
Final Flow Period	Minutes 60	(E)	133	P.S.I. to (F)	159	P.S.I.
Final Closed In Period	Minutes 66	(G)	1396	P.S.I.		
Final Hydrostatic Pressure		(H)	2211	P.S.I.		

WESTERN TESTING CO., INC.
Pressure Data

Date 12-4-80 Test Ticket No. 8572

Recorder No. 11018 Capacity 4425 Location 4342 Ft.

Clock No. ------- Elevation ------- Well Temperature ----- °F

Point		Pressure	
A	Initial Hydrostatic Mud	2224	P.S.I.
B	First Initial Flow Pressure	100	P.S.I.
C	First Final Flow Pressure	120	P.S.I.
D	Initial Closed-in Pressure	1480	P.S.I.
E	Second Initial Flow Pressure	133	P.S.I.
F	Second Final Flow Pressure	159	P.S.I.
G	Final Closed-in Pressure	1396	P.S.I.
H	Final Hydrostatic Mud	2211	P.S.I.

	Time Given	Time Computed
Open Tool	5:30 M	
First Flow Pressure	60 Mins.	55 Mins.
Initial Closed-in Pressure	60 Mins.	69 Mins.
Second Flow Pressure	60 Mins.	60 Mins.
Final Closed-in Pressure	60 Mins.	66 Mins.

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 11 Inc. of 5 mins. and a final inc. of 0 Min.

Point	Mins.	Press.
P 1	0	100
P 2	5	96
P 3	10	96
P 4	15	98
P 5	20	102
P 6	25	107
P 7	30	111
P 8	35	116
P 9	40	118
P10	45	119
P11	50	120
P12	55	120
P13		
P14		
P15		
P16		
P17		
P18		
P19		
P20		

Initial Shut-In
Breakdown: 23 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	120
3	178
6	300
9	424
12	558
15	686
18	808
21	918
24	1007
27	1073
30	1130
33	1187
36	1240
39	1278
42	1308
45	1337
48	1363
51	1388
54	1410
57	1427
60	1443
63	1460
66	1471

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

Point Minutes	Press.
0	133
5	133
10	136
15	138
20	142
25	146
30	148
35	150
40	152
45	153
50	155
55	157
60	159

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

Point Minutes	Press.
0	159
3	251
6	373
9	518
12	633
15	763
18	858
21	936
24	1004
27	1068
30	1126
33	1167
36	1203
39	1233
42	1256
45	1282
48	1304
51	1328
54	1348
57	1363
60	1379
63	1390
66	1396