

Company Gear Petroleum Company Lease & Well No. Gillen #1  
 Elevation 1710 Ground Level Formation Indian Cave Effective Pay --- Ticker No. 4361  
 Date 11/24/79 Sec. 3 Twp. 29S Range 3W County Kingman State Kansas  
 Test Approved by Douglas V. Davis Western Representative Mike Tritt

Formation Test No. 1 Interval Tested from 2401 ft. to 2468 ft. Total Depth 2468 ft.  
 Packer Depth 2397 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 2401 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Depth of Selective Zone Set - ft. Packer Depth - ft. Size - in.

Top Recorder Depth (Inside) 2393 ft. Recorder Number 3354 Cap. 4200  
 Bottom Recorder Depth (Outside) 2396 ft. Recorder Number 2605 Cap. 4150  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Red Tiger Drilling Co. Drill Collar Length 31 I. D. 2 1/4 in.  
 Mud Type drispac Viscosity 30 Weight Pipe Length 1049 I. D. 2 1/2 in.  
 Weight 9.4 Water Loss NC cc. Drill Pipe Length 1322 I. D. 3.8 in.  
 Chlorides 45,000 P.P.M. Test Tool Length 30 ft. Tool Size 5 1/2 OD in.  
 Jars: Make WTC Serial Number 404 Anchor Length 36+ D.C. ft. Size 5 1/2 OD 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 XH, 4 1/2 FH in.

Blow: Weak blow decreasing to very weak in first flow period. Very weak and died in second flow period.

Recovered 220 ft. of mud cut water  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Chlorides 76,000 ppm

Remarks: \_\_\_\_\_  
 \_\_\_\_\_  
 Time Set Packer(s) 9:20 ~~A.M.~~ P.M. Time Started Off Bottom 12:20 ~~P.M.~~ A.M. Maximum Temperature 94<sup>0</sup>  
 Initial Hydrostatic Pressure \_\_\_\_\_ (A) 1196 P.S.I.  
 Initial Flow Period \_\_\_\_\_ Minutes 30 (B) 59 P.S.I. to (C) 145 P.S.I.  
 Initial Closed In Period \_\_\_\_\_ Minutes 60 (D) 920 P.S.I.  
 Initial Flow Period \_\_\_\_\_ Minutes \_\_\_\_\_ P.S.I.

**WESTERN TESTING CO., INC.**  
**Pressure Data**

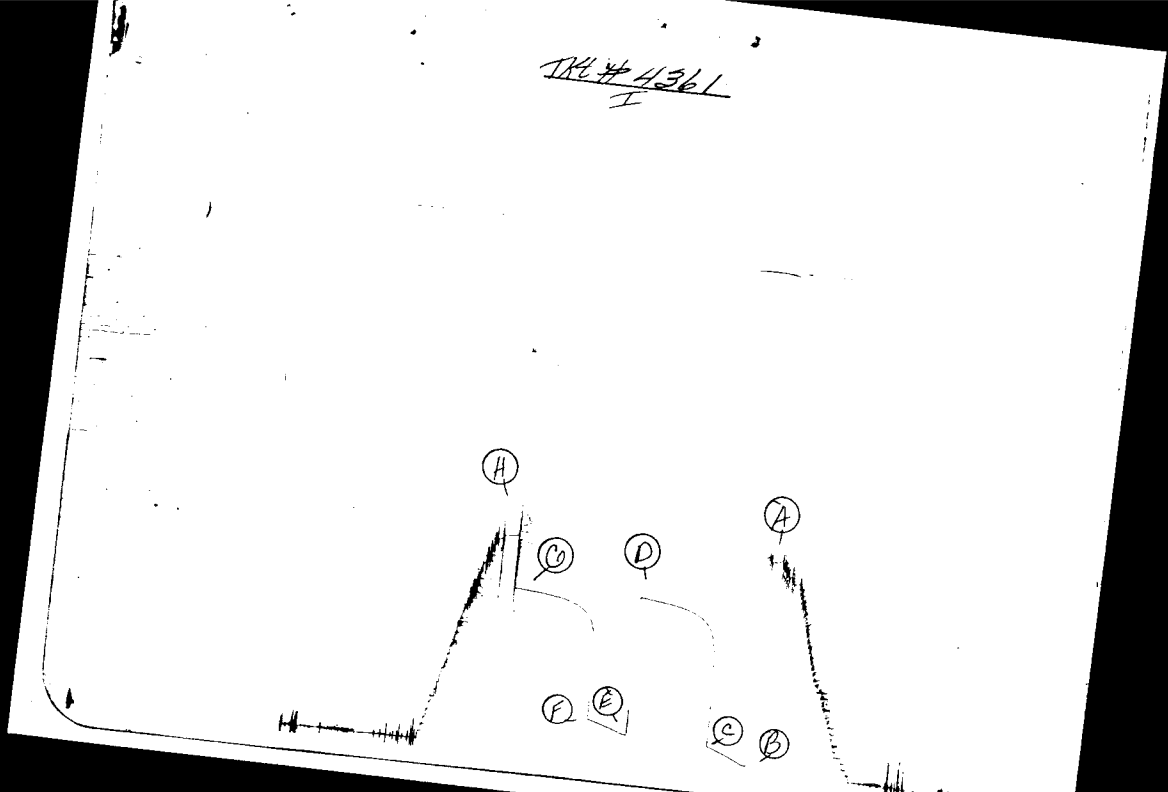
Date 11-24-79 Test Ticket No. 4361  
 Recorder No. 3354 Capacity 4200 Location 2393 Ft.  
 Clock No. - Elevation 1710 Ground Level Well Temperature 94 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1196	P.S.I.	9:20P.	M
B First Initial Flow Pressure	59	P.S.I.	30	Mins. 30 Mins.
C First Final Flow Pressure	145	P.S.I.	60	Mins. 60 Mins.
D Initial Closed-in Pressure	920	P.S.I.	30	Mins. 30 Mins.
E Second Initial Flow Pressure	165	P.S.I.	60	Mins. 60 Mins.
F Second Final Flow Pressure	219	P.S.I.		
G Final Closed-in Pressure	897	P.S.I.		
H Final Hydrostatic Mud	1173	P.S.I.		

**PRESSURE BREAKDOWN**

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.
	of 5 mins.	and a final inc. of 0 Min.	of 3 mins.	and a final inc. of 0 Min.	of 5 mins.	and a final inc. of 0 Min.	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	59	0	145	0	165	0	219	
P 2 5	68	3	618	5	168	3	635	
P 3 10	89	6	745	10	179	6	745	
P 4 15	105	9	784	15	190	9	783	
P 5 20	120	12	816	20	203	12	810	
P 6 25	133	15	835	25	213	15	827	
P 7 30	145	18	862	30	219	18	839	
P 8		21	863			21	848	
P 9		24	871			24	857	
P10		27	879			27	862	
P11		30	884			30	868	
P12		33	889			33	872	
P13		36	893			36	875	
P14		39	897			39	878	
P15		42	900			42	881	
P16		45	903			45	884	
P17		48	907			48	887	
P18		51	911			51	890	
P19		54	914			54	892	
P20		57	917			57	895	
WTC - 4		60	920			60	897	

TRK # 4361  
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Company Gear Petroleum Company Lease & Well No. Gillen #1  
 Elevation 1710 Ground Level Formation Mississippi Effective Pay. ---- Ft. Ticket No. 4363  
 Date 11/30/79 Sec. 3 Twp. 29S Range 3W County Kingman State Kansas  
 Test Approved by Douglas V. Davis, Jr. Western Representative Mike Tritt

Formation Test No. 2 Interval Tested from 4196 ft. to 4212 ft. Total Depth 4212 ft.  
 Packer Depth 4191 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 4196 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4198 ft. Recorder Number 3354 Cap. 4200  
 Bottom Recorder Depth (Outside) 4201 ft. Recorder Number 2605 Cap. 4150  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Red Tiger Drilling Co. Drill Collar Length - I. D. - in.  
 Mud Type drispac Viscosity 46 Weight Pipe Length 1049 I. D. 2 1/2 in.  
 Weight 9.5 Water Loss 12 cc. Drill Pipe Length 3117 I. D. 3.8 in.  
 Chlorides 20,000 P.P.M. Test Tool Length 30 ft. Tool Size 5 1/2 OD in.  
 Jars: Make WTC Serial Number 404 Anchor Length 16 ft. Size 5 1/2 OD 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 XH in.

Blow: Strong blow throughout test. Gas to surface in eight minutes on final opening. See attached sheet for gas measurements.

Recovered 30 ft. of gas cut & slightly oil cut mud  
 Recovered 60 ft. of gas cut and very slightly oil cut mud  
 Recovered 60 ft. of gas cut and very slightly oil cut watery mud  
 Recovered 120 ft. of gas cut and very slightly oil cut muddy water  
 Recovered 300 ft. of salt water  
 Remarks: 570 feet of fluid

Time Set Packer(s) 3:20 ~~P.M.~~ <sup>A.M.</sup> Time Started Off Bottom 7:50 ~~P.M.~~ <sup>A.M.</sup> Maximum Temperature 134<sup>0</sup>  
 Initial Hydrostatic Pressure ..... (A) 2091 P.S.I.  
 Initial Flow Period ..... Minutes 30 (B) 55 P.S.I. to (C) 115 P.S.I.  
 Initial Closed In Period ..... Minutes 60 (D) 1520 P.S.I.  
 Final Flow Period ..... Minutes 60 (E) 156 P.S.I. to (F) 285 P.S.I.  
 Final Closed In Period ..... Minutes 40 (G) 1525 P.S.I.  
 Final Hydrostatic Pressure ..... (H) 2070 P.S.I.

## GAS FLOW REPORT

Date 11/30/79 Ticket 4363 Company Gear Petroleum Company  
 Well Name and No. Gillen #1 Dst No. 2 Interval Tested 4196'-4212'  
 County Kingman State Kansas Sec. 3 Twp. 29S Rg. 3W

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

<b>SECOND FLOW</b>						
4:50 OPEN TOOL -GAS TO SURFACE EIGHT MINUTES.						
5:00	10 "	of water 1/4"	orifice			5,320 CFPD
5:10	32"	of water 1/4"	orifice			9,500 CFPD
5:20	32"	of water 1/4"	orifice			9,500 CFPD
5:30	30"	of water 1/4"	orifice			9,200 CFPD
5:40	30"	of water 1/4"	orifice			9,200 CFPD
5:50	30"	of water 1/4"	orifice			9,200 CFPD

### GAS BOTTLE

Serial No. ---- Date Bottle Filled ---- Date to be Invoiced 11/30/79

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 1 1/2% 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 Gear Petroleum Company  
 Authorized by Douglas V. Davis, Jr.

**WESTERN TESTING CO., INC.**  
**Pressure Data**

Date 11/30/79 Test Ticket No. 4363  
 Recorder No. 3354 Capacity 4200 Location 4198 Ft.  
 Clock No. --- Elevation 1710 Ground Level Well Temperature 134 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2091	P.S.I.	3:20A	M
B First Initial Flow Pressure	55	P.S.I.	30	Mins. 30 Mins.
C First Final Flow Pressure	116	P.S.I.	60	Mins. 60 Mins.
D Initial Closed-in Pressure	1520	P.S.I.	60	Mins. 60 Mins.
E Second Initial Flow Pressure	156	P.S.I.	120	Mins. 120 Mins.
F Second Final Flow Pressure	285	P.S.I.		
G Final Closed-in Pressure	1525	P.S.I.		
H Final Hydrostatic Mud	2070	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>40</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	0	55	0	116	0	156	0	285
P 2	5	55	3	481	5	156	3	681
P 3	10	65	6	764	10	169	6	939
P 4	15	82	9	1002	15	181	9	1103
P 5	20	95	12	1160	20	192	21	1217
P 6	25	108	15	1272	25	207	15	1302
P 7	30	116	18	1340	30	216	18	1350
P 8			21	1390	35	227	21	1395
P 9			24	1424	40	237	24	1424
P10			27	1449	45	251	27	1447
P11			30	1468	50	262	30	1464
P12			33	1481	55	270	33	1475
P13			36	1492	60	285	36	1483
P14			39	1498			39	1492
P15			42	1504			42	1498
P16			45	1511			45	1503
P17			48	1514			48	1506
P18			51	1515			51	1509
P19			54	1517			54	1511
P20			57	1519			57	1513
			60	1520			60	1515

**WESTERN TESTING CO., INC.**  
**Pressure Data**

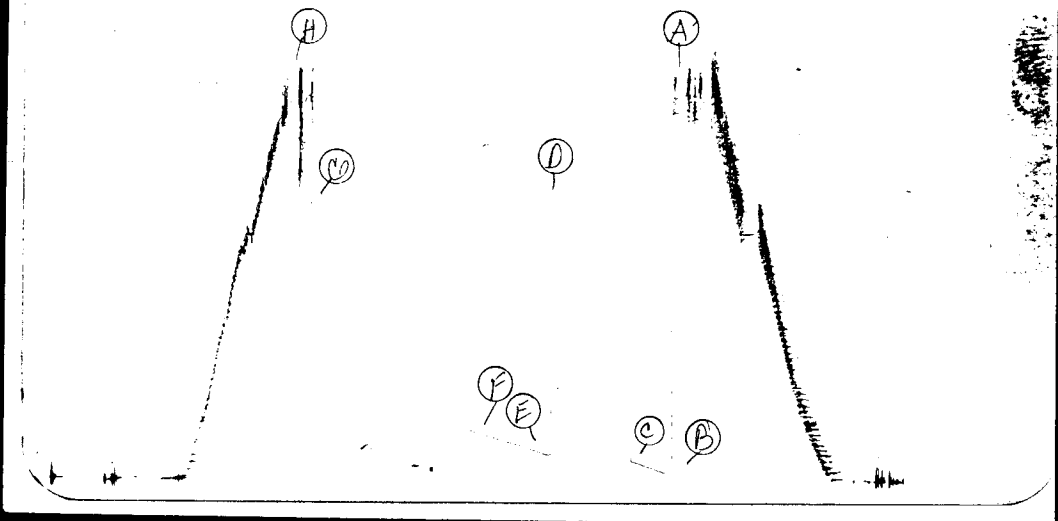
Date 11/30/79 Test Ticket No. 4363  
 Recorder No. 3354 Capacity 4200 Location 4198 Ft.  
 Clock No. --- Elevation 1710 Ground Level Well Temperature 134 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2091	P.S.I.	3:20A	M
B First Initial Flow Pressure	55	P.S.I.	30	Mins. 30 Mins.
C First Final Flow Pressure	116	P.S.I.	60	Mins. 60 Mins.
D Initial Closed-in Pressure	1520	P.S.I.	60	Mins. 60 Mins.
E Second Initial Flow Pressure	156	P.S.I.	120	Mins. 120 Mins.
F Second Final Flow Pressure	285	P.S.I.		
G Final Closed-in Pressure	1525	P.S.I.		
H Final Hydrostatic Mud	2070	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>40</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						63	1515
P 2						66	1516
P 3						69	1517
P 4						72	1518
P 5						75	1519
P 6						78	1519
P 7						81	1520
P 8						84	1521
P 9						87	1522
P10						90	1523
P11						93	1524
P12						96	1524
P13						99	1525
P14						102	1525
P15						105	1525
P16						108	1525
P17						111	1525
P18						114	1525
P19						117	1525
P20						120	1525

TKL # 11563  
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Company Gear Petroleum Company Lease & Well No. Gillen #1  
 Elevation 1710 Ground Level Formation Viola Effective Pay ---- Ft. Ticket No. 4364  
 Date 12/2/ 79 Sec. 3 Twp. 29S Range 3W County Kingman State Kansas  
 Test Approved by Douglas V. Davis, Jr. Western Representative Mike Tritt

Formation Test No. 3 Interval Tested from 4496 ft. to 4508 ft. Total Depth 4508 ft.  
 Packer Depth 4491 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 4496 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4498 ft. Recorder Number 3354 Cap 4200  
 Bottom Recorder Depth (Outside) 4501 ft. Recorder Number 2605 Cap 4150  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap -

Drilling Contractor Red Tiger Drilling Co. Rig #1 Drill Collar Length - I. D. - in.  
 Mud Type MonPac Viscosity 49 Weight Pipe Length 1049 I. D. 2 1/2 in.  
 Weight 9.5 Water Loss 12.0 cc. Drill Pipe Length 3417 I. D. 3.8 in.  
 Chlorides 20,000 P.P.M. Test Tool Length 30 ft. Tool Size 5 1/2 OD in.  
 Jars: Make WTC Serial Number 404 Anchor Length 12 ft. Size 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 throughout test. Gas to surface twelve minutes on second opening. See attached sheet for gas measurements.

Recovered 60 ft. of heavy gas cut watery mud  
 Recovered 430 ft. of heavy gas cut slightly water cut oil  
 Recovered 430 ft. of heavy gas and oil cut water  
 Recovered 2260 ft. of salt water  
 Recovered 3180 ft. of fluid

Remarks: \_\_\_\_\_

Time Set Packer(s) 2:00 A.M. Time Started Off Bottom 6:30 A.M. Maximum Temperature 133°  
 Initial Hydrostatic Pressure 2258 (A) P.S.I.  
 Initial Flow Period 30 Minutes (B) 243 P.S.I. to (C) 920 P.S.I.  
 Initial Closed In Period 60 Minutes (D) 1404 P.S.I.  
 Final Flow Period 60 Minutes (E) 964 P.S.I. to (F) 1395 P.S.I.  
 Final Closed In Period 120 Minutes (G) 1410 P.S.I.  
 Final Hydrostatic Pressure 2254 (H) P.S.I.

## GAS FLOW REPORT

Date 12/2/79 Ticket 4364 Company Gear Petroleum Company  
 Well Name and No. Gillen #1 Dst No. 3 Interval Tested 4496'-4508'  
 County Kingman State Kansas Sec. 3 Twp. 29S 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
<b>PRE FLOW</b>						

**3:30 TOOL OPEN GAS TO SURFACE TWELVE MINUTES** **SECOND FLOW**

20 min.	10" of water	1/4" orifice				5,320 CFPD
30 min.	14" of water	1/4" orifice				6,330 CFPD
40 min.	12" of water	1/4" orifice				5,860 CFPD
50 min.	6" of water	1/4" orifice				4,120 CFPD
60 min.	6" of water	1/4" orifice				4,120 CFPD

### GAS BOTTLE

Serial No. ---- Date Bottle Filled ----- Date to be Invoiced 12/2/79

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 1 1/2% 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 Gear Petroleum Company  
 Authorized by Douglas V. Davis, Jr.

# WESTERN TESTING CO., INC.

## Pressure Data

Date 12/2/79 Test Ticket No. 4364  
 Recorder No. 3354 Capacity 4200 Location 4498 Ft.  
 Clock No. ---- Elevation 1710 Ground Level Well Temperature 133 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2258 P.S.I.	Open Tool	2:00A	M
B First Initial Flow Pressure	243 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	920 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	1404 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	964 P.S.I.	Final Closed-in Pressure	120 Mins.	120 Mins.
F Second Final Flow Pressure	1395 P.S.I.			
G Final Closed-in Pressure	1410 P.S.I.			
H Final Hydrostatic Mud	2254 P.S.I.			

### PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>40</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1	0	243	0	920	0	964	0	1395
P 2	5	367	3	1354	5	1023	3	1401
P 3	10	530	6	1376	10	1089	6	1405
P 4	15	641	9	1382	15	1148	9	1406
P 5	20	749	12	1387	20	1196	12	1406
P 6	25	844	15	1390	25	1241	15	1406
P 7	30	920	18	1392	30	1278	18	1406
P 8			21	1394	35	1310	21	1406
P 9			24	1396	40	1335	24	1406
P10			27	1398	45	1357	27	1406
P11			30	1400	50	1371	30	1406
P12			33	1403	55	1382	33	1406
P13			36	1404	60	1395	36	1406
P14			39	1404			39	1406
P15			42	1404			42	1406
P16			45	1404			45	1406
P17			48	1404			48	1406
P18			51	1404			51	1408
P19			54	1404			54	1409
P20			57	1404			57	1409
WTC - 4			60	1404			60	1410

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**WESTERN TESTING CO., INC.**  
**Pressure Data**

Date 12/2/79 Test Ticket No. 4364  
 Recorder No. 3354 Capacity 4200 Location 4498 Ft.  
 Clock No. ---- Elevation 1710 Ground Level Well Temperature 133 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2258 P.S.I.	Open Tool	2:00A M	
B First Initial Flow Pressure	243 P.S.I.	First Flow Pressure	30 Mins	30 Mins
C First Final Flow Pressure	920 P.S.I.	Initial Closed-in Pressure	60 Mins	60 Mins
D Initial Closed-in Pressure	1404 P.S.I.	Second Flow Pressure	60 Mins	60 Mins
E Second Initial Flow Pressure	964 P.S.I.	Final Closed-in Pressure	120 Mins	120 Mins
F Second Final Flow Pressure	1395 P.S.I.			
G Final Closed-in Pressure	1410 P.S.I.			
H Final Hydrostatic Mud	2254 P.S.I.			

**PRESSURE BREAKDOWN**

<b>First Flow Pressure</b> Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	<b>Initial Shut-In</b> Breakdown: <u>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	<b>Second Flow Pressure</b> Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	<b>Final Shut-In</b> Breakdown: <u>40</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
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Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1				63	1410		
P 2				66	1410		
P 3				69	1410		
P 4				72	1410		
P 5				75	1410		
P 6				78	1410		
P 7				81	1410		
P 8				84	1410		
P 9				87	1410		
P10				90	1410		
P11				93	1410		
P12				96	1410		
P13				99	1410		
P14				102	1410		
P15				105	1410		
P16				108	1410		
P17				111	1410		
P18				114	1410		
P19				117	1410		
P20				120	1410		

3324 DST #3

TRK #4364

