Company Robert E. Campbell Oil & Gas Operations Lease & Well No. Klaver #8

Elevation - Formation Lansing Effective Pay - Ft. Ticket No. 12252

Date 8/11/81 Sec. 9 Twp. 29S Range 6W County Kingman State Kansas

Test Approved by Richard A Robba Western Representative Ray Schwager

Formation Test No. 1 Interval Tested from 3270 ft. to 3286 ft. Total Depth 3286 ft.

Packer Depth 3265 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth 3270 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3273 ft. Recorder Number 13269 Cap. 4375

Bottom Recorder Depth (Outside) 3276 ft. Recorder Number 13270 Cap. 4375

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

Drilling Contractor Merckle Drilling Rig #1 Drill Collar Length - I. D. - in.

Mud Type Premix Viscosity 37 Weight Pipe Length 390 I. D. 2.7 in.

Weight 9.5 Water Loss 60 cc. Drill Pipe Length 2858 I. D. 3.8 in.

Chlorides 24,000 P.P.M. Test Tool Length 22 ft. Tool Size 4½ in.

Jars: Make - Serial Number - Anchor Length 16 ft. Size 5½ in.

Did Well Flow? No Reversed Out No Surface Choke Size 5/8 in. Bottom Choke Size 5/8 in.

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

Blow: Weak blow throughout initial flow period. Weak blow building to fair blow on final flow period

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 7:20 ~~A.M.~~ ~~P.M.~~ Time Started Off Bottom 10:20 ~~A.M.~~ ~~P.M.~~ Maximum Temperature 104

Initial Hydrostatic Pressure (A) 1695 P.S.I.

Initial Flow Period Minutes 30 (B) 44 P.S.I. to (C) 48 P.S.I.

Initial Closed In Period Minutes 48 (D) 278 P.S.I.

Final Flow Period Minutes 45 (E) 53 P.S.I. to (F) 53 P.S.I.

Final Closed In Period Minutes 66 (G) 604 P.S.I.

Final Hydrostatic Pressure (H) 1663 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 8/11/81 Test Ticket No. 12252

Recorder No. 13269 Capacity 4375 Location 3273 Ft.

Clock No. - Elevation - Well Temperature 104 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1695 P.S.I.	Open Tool	7:20A M	
B First Initial Flow Pressure	44 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	48 P.S.I.	Initial Closed-in Pressure	45 Mins.	48 Mins.
D Initial Closed-in Pressure	278 P.S.I.	Second Flow Pressure	45 Mins.	45 Mins.
E Second Initial Flow Pressure	53 P.S.I.	Final Closed-in Pressure	60 Mins.	66 Mins.
F Second Final Flow Pressure	53 P.S.I.			
G Final Closed-in Pressure	604 P.S.I.			
H Final Hydrostatic Mud	1663 P.S.I.			

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1 0	44
P 2 5	44
P 3 10	44
P 4 15	45
P 5 20	46
P 6 25	47
P 7 30	48
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 16 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	48
3	51
6	55
9	59
12	62
15	68
18	79
21	86
24	99
27	115
30	128
33	148
36	170
39	196
42	222
45	262
48	278

Second Flow Pressure
Breakdown: 9 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	53
5	53
10	53
15	53
20	53
25	53
30	53
35	53
40	53
45	53

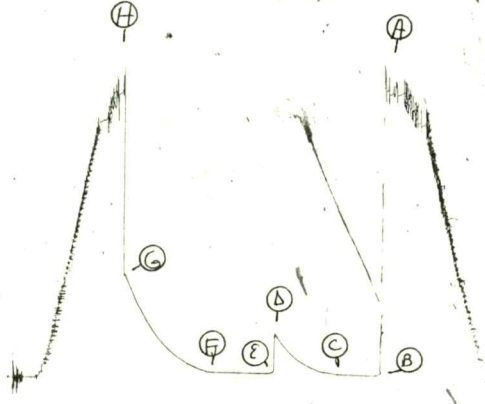
Final Shut-In
Breakdown: 22 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	53
3	55
6	59
9	68
12	77
15	86
18	99
21	112
24	128
27	143
30	161
33	183
36	205
39	233
42	264
45	297
48	337
51	379
54	416
57	463
60	515
63	572
66	604

WTC - 4

IKT # 12252

I



13269

Company Robert E Campbell Oil & Gas Operations Lease & Well No. Klaver #8

Elevation 1563 Kelly Bushing Formation Mississippi Effective Pay - Ft. Ticket No. 11828

Date 8/13/81 Sec. 9 Twp. 29S Range 6W County Kingman State Kansas

Test Approved by Richard A Robba Western Representative Louis Spencer

Formation Test No. 2 Interval Tested from 4083 ft. to 4109 ft. Total Depth 4109 ft.

Packer Depth 4078 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4083 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4091 ft. Recorder Number 1560 Cap. 4500

Bottom Recorder Depth (Outside) 4094 ft. Recorder Number 11019 Cap. 4500

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

Drilling Contractor Merkle Drilling Drill Collar Length - I. D. - in.

Mud Type Premix Viscosity 65 Weight Pipe Length 503 I. D. 2.8 in.

Weight 9.3 Water Loss 10.4 cc. Drill Pipe Length 3560 I. D. 3.8 in.

Chlorides 17,000 P.P.M. Test Tool Length 20 ft. Tool Size 5½ in.

Jars: Make - Serial Number - Anchor Length 26 ft. Size 5½ in.

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

Main Hole Size 7 7/8 in. Tool Joint Size 3½ in.

Blow: Initial flow period gas to surface in 5 minutes. See attached sheet for gas measurements.

Recovered 92 ft. of gas cut mud

Recovered 124 ft. of gas cut muddy water

Recovered 124 ft. of slightly oil & gas cut muddy water Chlorides 80,000 PPM

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 7:05 ~~A.M.~~ P.M. Time Started Off Bottom 10:20 ~~A.M.~~ P.M. Maximum Temperature 114

Initial Hydrostatic Pressure			(A) 2073 P.S.I.			
Initial Flow Period	Minutes 30	(B) 118 P.S.I.	to	(C) 118 P.S.I.		
Initial Closed In Period	Minutes 45	(D) 1313 P.S.I.				
Final Flow Period	Minutes 45	(E) 133 P.S.I.	to	(F) 133 P.S.I.		
Final Closed In Period	Minutes 72	(G) 1302 P.S.I.				
Final Hydrostatic Pressure		(H) 2029 P.S.I.				

GAS FLOW REPORT

Date 8/13/81 Ticket 11828 Company Robert E Campbell Oil & Gas Operations

Well Name and No. Klaver #8 Dst No. 2 Interval Tested 4083-4109

County Kingman State Kansas Sec. 9 Twp. 29S Rg. 6W

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			
	10 Min	3.5 PSIG	3/4" Orifice			144,000 C.F.P.D.
	15 Min	3.5 PSIG	3/4" Orifice			144,000 C.F.P.D.
	20 Min	4.0 PSIG	3/4" Orifice			156,000 C.F.P.D.
	25 Min	4.0 PSIG	3/4" Orifice			156,000 C.F.P.D.
	30 Min	4.0 PSIG	3/4" Orifice			156,000 C.F.P.D.
			SECOND FLOW			
	5 Min	9.5 PSIG	3/4" Orifice			251,000 C.F.P.D.
	10 Min	7.5 PSIG	3/4" Orifice			219,000 C.F.P.D.
	15 Min	6.0 PSIG	3/4" Orifice			194,000 C.F.P.D.
	20 Min	5.5 PSIG	3/4" Orifice			185,000 C.F.P.D.
	25 Min	5.0 PSIG	3/4" Orifice			175,000 C.F.P.D.
	30 Min	5.0 PSIG	3/4" Orifice			175,000 C.F.P.D.
	35 Min	5.0 PSIG	3/4" Orifice			175,000 C.F.P.D.
	40 Min	5.0 PSIG	3/4" Orifice			175,000 C.F.P.D.
	45 Min	5.0 PSIG	3/4" Orifice			175,000 C.F.P.D.

GAS BOTTLE

Serial No. 12666 Date Bottle Filled 8/13/81 Date to be Invoiced 8/13/81

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% per month, equal to 12% 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 Robert E Campbell Oil & Gas Operatio

Authorized by Richard A Robba

FORM WTC 6

WESTERN TESTING CO., INC.
Pressure Data

Date 8/13/81 Test Ticket No. 11828

Recorder No. 1560 Capacity 4500 Location 4091 Ft.

Clock No. - Elevation 1563 Kelly Bushing Well Temperature 114 °F

Point		Pressure	
A	Initial Hydrostatic Mud	2073	P.S.I.
B	First Initial Flow Pressure	118	P.S.I.
C	First Final Flow Pressure	118	P.S.I.
D	Initial Closed-in Pressure	1313	P.S.I.
E	Second Initial Flow Pressure	133	P.S.I.
F	Second Final Flow Pressure	133	P.S.I.
G	Final Closed-in Pressure	1302	P.S.I.
H	Final Hydrostatic Mud	2029	P.S.I.

	Time Given	Time Computed
Open Tool	7:05P M	
First Flow Pressure	30 Mins.	30 Mins.
Initial Closed-in Pressure	45 Mins.	45 Mins.
Second Flow Pressure	45 Mins.	45 Mins.
Final Closed-in Pressure	75 Mins.	72 Mins.

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1 0	118
P 2 5	118
P 3 10	118
P 4 15	118
P 5 20	118
P 6 25	118
P 7 30	118
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 15 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	118
3	770
6	1016
9	1122
12	1173
15	1212
18	1236
21	1259
24	1270
27	1282
30	1288
33	1295
36	1302
39	1306
42	1311
45	1313

Second Flow Pressure
Breakdown: 9 Inc. of 5 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	133
5	133
10	133
15	133
20	133
25	133
30	133
35	133
40	133
45	133

Final Shut-In
Breakdown: 24 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	133
3	775
6	962
9	1056
12	1113
15	1149
18	1176
21	1200
24	1216
27	1230
30	1243
33	1250
36	1259
39	1266
42	1273
45	1277
48	1282
51	1286
54	1290
57	1292
60	1294

CONT'D NEXT PAGE

WESTERN TESTING CO., INC.

Pressure Data

Date 8/13/81 Test Ticket No. 11828

Recorder No. 1560 Capacity 4500 Location 4091 Ft.

Clock No. - Elevation 1563 Kelly Bushing Well Temperature 114 °F

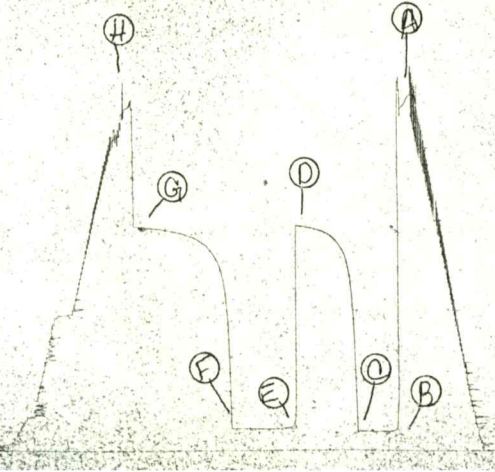
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2073 P.S.I.	Open Tool	7:05P M	
B First Initial Flow Pressure	118 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	118 P.S.I.	Initial Closed-in Pressure	45 Mins.	45 Mins.
D Initial Closed-in Pressure	1313 P.S.I.	Second Flow Pressure	45 Mins.	45 Mins.
E Second Initial Flow Pressure	133 P.S.I.	Final Closed-in Pressure	75 Mins.	72 Mins.
F Second Final Flow Pressure	133 P.S.I.			
G Final Closed-in Pressure	1302 P.S.I.			
H Final Hydrostatic Mud	2029 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: 6 Inc.		Breakdown: 15 Inc.		Breakdown: 9 Inc.		Breakdown: 24 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						63	1296
P 2						66	1298
P 3						69	1300
P 4						72	1302
P 5							
P 6							
P 7							
P 8							
P 9							
P10							
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

1560 -

Tk# 11828
I



Company: Robert E. Campbell Oil & Gas Operations — Lease & Well No.: Klaver #8

Elevation: 1563 Kelly Bushing — Formation: Mississippi — Effective Pay: - Ft. — Ticket No.: 11829

Date: 8/14/81 — Sec.: 9 — Twp.: 29S — Range: 6W — County: Kingman — State: Kansas

Test Approved by: Richard A. Robba — Western Representative: Louis Spencer

Formation Test No.: 3 — Interval Tested from: 4111 ft. to: 4123 ft. — Total Depth: 4123 ft.

Packer Depth: 4106 ft. — Size: 6 3/4 in. — Packer Depth: - ft. — Size: - in.

Packer Depth: 4111 ft. — Size: 6 3/4 in. — Packer Depth: - ft. — Size: - in.

Depth of Selective Zone Set: -

Top Recorder Depth (Inside): 4114 ft. — Recorder Number: 1560 — Cap.: 4500

Bottom Recorder Depth (Outside): 4117 ft. — Recorder Number: 11019 — Cap.: 4500

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

Drilling Contractor: Merckle Drilling — Drill Collar Length: - — I. D.: - in.

Mud Type: premix — Viscosity: 90 — Weight Pipe Length: 503 — I. D.: 2.8 in.

Weight: 9.2 — Water Loss: 7.2 cc. — Drill Pipe Length: 3588 — I. D.: 3.8 in.

Chlorides: 22,000 P.P.M. — Test Tool Length: 20 ft. — Tool Size: 5½ in.

Jars: Make: - — Serial Number: - — Anchor Length: 12 ft. — Size: 5½ 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: 3½ in.

Blow: Initial flow period; gas to surface in four minutes. See attached sheet for gas measurements.

Recovered: 1740 ft. of oil — A.P.I. Gravity 33 (corrected to 60°F)

Recovered: 30 ft. of water — Chlorides 65,000 ppm

Recovered: ft. of

Recovered: ft. of

Recovered: ft. of

Remarks:

Time Set Packer(s): 8:30 A.M. ~~P.M.~~ — Time Started Off Bottom: 11:50 A.M. P.M. — Maximum Temperature: 117°

Initial Hydrostatic Pressure		(A) 2029 P.S.I.		
Initial Flow Period	Minutes 30	(B) 178 P.S.I.	to (C) 220 P.S.I.	
Initial Closed In Period	Minutes 48	(D) 1272 P.S.I.		
Final Flow Period	Minutes 65	(E) 289 P.S.I.	to (F) 472 P.S.I.	
Final Closed In Period	Minutes 63	(G) 1246 P.S.I.		
Final Hydrostatic Pressure		(H) 1972 P.S.I.		

GAS FLOW REPORT

Date 8/14/81 Ticket 11829 Company Robert E. Campbell Oil & Gas Operations

Well Name and No. Klaver #8 Dst No. 3 Interval Tested 4111'-4123'

County Kingman State Kansas Sec. 9 Twp. 29S Rg. 6W

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			
	5 min.	7.5 PSIG	3/4" orifice			219,000 CFPD
	10 min	7.0 PSIG	3/4" orifice			211,000 CFPD
	15 min.	6.0 PSIG	3/4" orifice			194,000 CFPD
	20 min.	5.0 PSIG	3/4" orifice			175,000 CFPD
	25 min.	4.5 PSIG	3/4" orifice			166,000 CFPD
	30 min.	4.0 PSIG	3/4" orifice			156,000 CFPD
			SECOND FLOW			
	5 min.	2.0 PSIG	3/4" orifice			108,000 CFPD
	10 min.	4.0 PSIG	3/4" orifice			156,000 CFPD
	15 min.	3.0 PSIG	3/4" orifice			133,000 CFPD
	20 min.	11.0 PSIG	3/8" orifice			69,400 CFPD
	25 min.	14.0 PSIG	3/8" orifice			79,700 CFPD
	30 min.	14.0 PSIG	3/8" orifice			79,700 CFPD
	35 min.	14.0 PSIG	3/8" orifice			79,700 CFPD
	40 min.	15.0 PSIG	3/8" orifice			83,200 CFPD
	45 min.	15.0 PSIG	3/8" orifice			83,200 CFPD
	50 min.	12.0 PSIG	3/8" orifice			72,600 CFPD
	55 min.	16.0 PSIG	3/8" orifice			86,800 CFPD
	60 min.	4.0 PSIG	3/8" orifice			39,000 CFPD
	65 min.	11.0 PSIG	3/8" orifice			69,400 CFPD

GAS BOTTLE

Serial No. WTC#48 Date Bottle Filled 8/14/81 Date to be Invoiced 8/14/81

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 Robert E. Campbell Oil & Gas Operations

Authorized by Richard A. Robba

FORM WTC 6

WESTERN TESTING CO., INC.
Pressure Data

Date 8/14/81 Test Ticket No. 11829

Recorder No. 1560 Capacity 4500 Location 4114 Ft.

Clock No. - Elevation 1563 Kelly Bushing Well Temperature 117 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2029 P.S.I.	Open Tool	8:30A M	
B First Initial Flow Pressure	178 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	220 P.S.I.	Initial Closed-in Pressure	45 Mins.	48 Mins.
D Initial Closed-in Pressure	1272 P.S.I.	Second Flow Pressure	65 Mins.	65 Mins.
E Second Initial Flow Pressure	289 P.S.I.	Final Closed-in Pressure	60 Mins.	63 Mins.
F Second Final Flow Pressure	472 P.S.I.			
G Final Closed-in Pressure	1246 P.S.I.			
H Final Hydrostatic Mud	1972 P.S.I.			

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1 0	178
P 2 5	178
P 3 10	178
P 4 15	184
P 5 20	194
P 6 25	206
P 7 30	220
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 16 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	220
3	705
6	1009
9	1083
12	1135
15	1164
18	1187
21	1205
24	1218
27	1230
30	1239
33	1248
36	1255
39	1259
42	1264
45	1269
48	1272

Second Flow Pressure
Breakdown: 13 Inc.
of 5 mins. and a
final inc. of 0 Min.

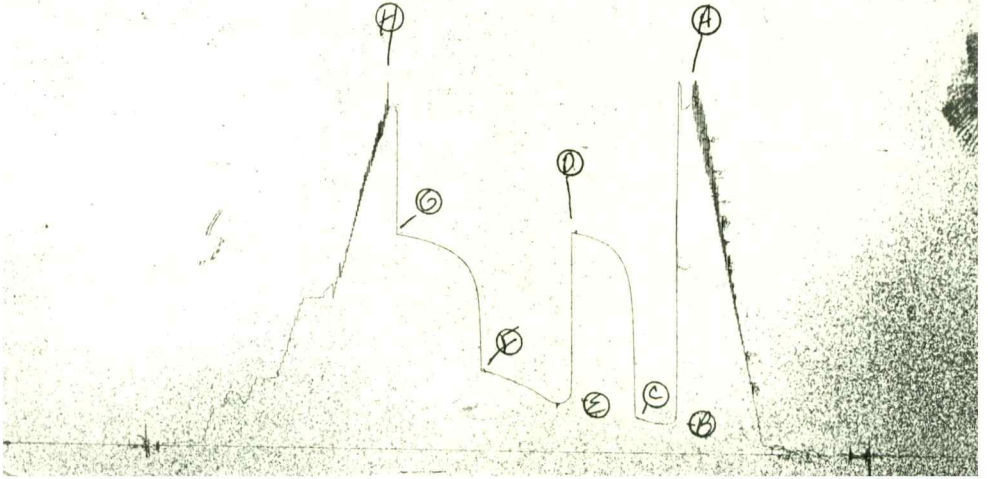
Point Minutes	Press.
0	289
5	289
10	289
15	299
20	322
25	350
30	373
35	389
40	405
45	419
50	433
55	449
60	463
65	472

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

Point Minutes	Press.
0	472
3	935
6	1014
9	1059
12	1095
15	1117
18	1135
21	1151
24	1164
27	1176
30	1187
33	1192
36	1203
39	1211
42	1216
45	1222
48	1227
51	1233
54	1236
57	1241
60	1245
63	1246

IKT. #11829

I



Company Robert E. Campbell Oil & Gas Operations Lease & Well No. Klaver #8

Elevation 1563 Kelly Bushing Formation Misener Effective Pay - Ft. Ticket No. 11830

Date 8/16/81 Sec. 9 Twp. 29S Range 6W County Kingman State Kansas

Test Approved by Richard A Robba Western Representative Louis Spencer

Formation Test No. 4 Interval Tested from 4453 ft. to 4465 ft. Total Depth 4465 ft.

Packer Depth 4448 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4453 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4456 ft. Recorder Number 1560 Cap. 4500

Bottom Recorder Depth (Outside) 4459 ft. Recorder Number 11019 Cap. 4500

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

Drilling Contractor Merckle Drill Collar Length - I. D. - in.

Mud Type Premix Viscosity 65 Weight Pipe Length 503 I. D. 2.8 in.

Weight 9.2 Water Loss 7.0 cc. Drill Pipe Length 3921 I. D. - in.

Chlorides 21,000 P.P.M. Test Tool Length 29 ft. Tool Size 5½ in.

Jars: Make WTC Serial Number 13029 Anchor Length 12 ft. Size 5½ 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 3½ in.

Blow: Fair blow building to good on initial flow period. Good blow on final flow period.

Recovered 75 ft. of oil cut mud - 5% oil; 95% mud (gassy)

Recovered 62 ft. of oil & gas cut mud - 15% oil; 85% mud

Recovered 62 ft. of oil & gas cut mud - 15% oil; 2% water; 83% mud

Recovered ft. of Chlorides 21,000 PPM

Recovered ft. of

Remarks:

Time Set Packer(s) 5:58 A.M. P.M. Time Started Off Bottom 9:28 A.M. P.M. Maximum Temperature 118

Initial Hydrostatic Pressure			(A)	2264	P.S.I.	
Initial Flow Period	Minutes	35	(B)	65	P.S.I. to (C)	82 P.S.I.
Initial Closed In Period	Minutes	45	(D)	1038	P.S.I.	
Final Flow Period	Minutes	60	(E)	113	P.S.I. to (F)	113 P.S.I.
Final Closed In Period	Minutes	81	(G)	1099	P.S.I.	
Final Hydrostatic Pressure			(H)	2220	P.S.I.	

WESTERN TESTING CO., INC.
Pressure Data

Date 8/16/81 Test Ticket No. 11830

Recorder No. 1560 Capacity 4500 Location 4456 Ft.

Clock No. - Elevation 1563 Kelly Bushing Well Temperature 118 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2264 P.S.I.	Open Tool	5:58A M	
B First Initial Flow Pressure	65 P.S.I.	First Flow Pressure	30 Mins.	35 Mins.
C First Final Flow Pressure	82 P.S.I.	Initial Closed-in Pressure	45 Mins.	45 Mins.
D Initial Closed-in Pressure	1038 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	113 P.S.I.	Final Closed-in Pressure	75 Mins.	81 Mins.
F Second Final Flow Pressure	113 P.S.I.			
G Final Closed-in Pressure	1099 P.S.I.			
H Final Hydrostatic Mud	2220 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 7 Inc. of 5 mins. and a final inc. of 0 Min.

Point Mins.	Press.
P 1 0	65
P 2 5	65
P 3 10	65
P 4 15	65
P 5 20	65
P 6 25	65
P 7 30	81
P 8 35	82
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 15 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	82
3	127
6	169
9	222
12	275
15	331
18	384
21	475
24	572
27	673
30	761
33	863
36	926
39	975
42	1011
45	1038

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

Point Minutes	Press.
0	113
5	113
10	113
15	113
20	113
25	113
30	113
35	113
40	113
45	113
50	113
55	113
60	113

Final Shut-In
Breakdown: 27 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	113
3	141
6	171
9	225
12	269
15	322
18	373
21	421
24	481
27	552
30	619
33	696
36	764
39	831
42	885
45	932
48	973
51	1000
54	1025
57	1043
60	1059

CONT'D NEXT PAGE

WESTERN TESTING CO., INC.
Pressure Data

Date 8/16/81 Test Ticket No. 11830

Recorder No. 1560 Capacity 4500 Location 4456 Ft.

Clock No. - Elevation 1563 Kelly Bushing Well Temperature 118 °F

Point		Pressure		Time Given	Time Computed
A	Initial Hydrostatic Mud	2264 P.S.I.	Open Tool	5:58A M	
B	First Initial Flow Pressure	65 P.S.I.	First Flow Pressure	30 Mins.	35 Mins.
C	First Final Flow Pressure	82 P.S.I.	Initial Closed-in Pressure	45 Mins.	45 Mins.
D	Initial Closed-in Pressure	1038 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E	Second Initial Flow Pressure	113 P.S.I.	Final Closed-in Pressure	75 Mins.	81 Mins.
F	Second Final Flow Pressure	113 P.S.I.			
G	Final Closed-in Pressure	1099 P.S.I.			
H	Final Hydrostatic Mud	2220 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 7 Inc.
of 5 mins. and a
final inc. of 0 Min.

Initial Shut-In
Breakdown: 15 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: 27 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						63	1070
P 2						66	1077
P 3						69	1086
P 4						72	1090
P 5						75	1095
P 6						78	1098
P 7						81	1099
P 8							
P 9							
P10							
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

IKT. # 11830

I