

Company Robert E. Campbell Oil & Gas Operations Lease & Well No. W. Kaufman #2
 Elevation 1580 Kelly Bushing Formation Lansing Effective Pay - Ft. Ticket No. 11934
 Date 8/30/81 Sec. 7 Twp. 29S Range 6W County Kingman State Kansas
 Test Approved by Richard A. Robba Western Representative Jeff Piotrowski

Formation Test No. 1 Interval Tested from 3297 ft. to 3311 ft. Total Depth 3311 ft.
 Packer Depth 3306 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 3311 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3314 ft. Recorder Number 5673 Cap. 5400
 Bottom Recorder Depth (Outside) 3317 ft. Recorder Number 1565 Cap. 4900
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Merckle Drlg. Rig#1 Drill Collar Length - I. D. - in.
 Mud Type starch Viscosity 60 Weight Pipe Length 450 I. D. 3.2 in.
 Weight 9.4 Water Loss 10.4 cc. Drill Pipe Length 2827 I. D. 3.8 in.
 Chlorides 18,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 14 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 throughout both flow periods.

Recovered 1540 ft. of gas in pipe
 Recovered 200 ft. of oil
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Remarks: _____

Time Set Packer(s)	<u>1:50</u>	AM P.M.	Time Started Off Bottom	<u>4:35</u>	AM P.M.	Maximum Temperature	<u>?</u>
Initial Hydrostatic Pressure	(A)	<u>1566</u>	P.S.I.				
Initial Flow Period	Minutes	<u>30</u>	(B)	<u>18</u>	P.S.I. to (C)	<u>37</u>	P.S.I.
Initial Closed In Period	Minutes	<u>45</u>	(D)	<u>592</u>	P.S.I.		
Final Flow Period	Minutes	<u>45</u>	(E)	<u>52</u>	P.S.I. to (F)	<u>76</u>	P.S.I.
Final Closed In Period	Minutes	<u>45</u>	(G)	<u>434</u>	P.S.I.		
Final Hydrostatic Pressure	(H)	<u>1498</u>	P.S.I.				

WESTERN TESTING CO., INC.

Pressure Data

Date 8/30/81 Test Ticket No. 11934
 Recorder No. 5673 Capacity 5400 Location 3314 Ft.
 Clock No. - Elevation 1580 Kelly Bushing Well Temperature - °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1566	P.S.I.	1:50P	M
B First Initial Flow Pressure	18	P.S.I.	30	30
C First Final Flow Pressure	37	P.S.I.	45	45
D Initial Closed-in Pressure	592	P.S.I.	45	45
E Second Initial Flow Pressure	52	P.S.I.	45	45
F Second Final Flow Pressure	76	P.S.I.		
G Final Closed-in Pressure	434	P.S.I.		
H Final Hydrostatic Mud	1498	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: 15 Inc. of 3 mins. and a final inc. of 0 Min.
Second Flow Pressure Breakdown: 9 Inc. of 5 mins. and a final inc. of 0 Min.
Final Shut-In Breakdown: 15 Inc. of 3 mins. and a final inc. of 0 Min.

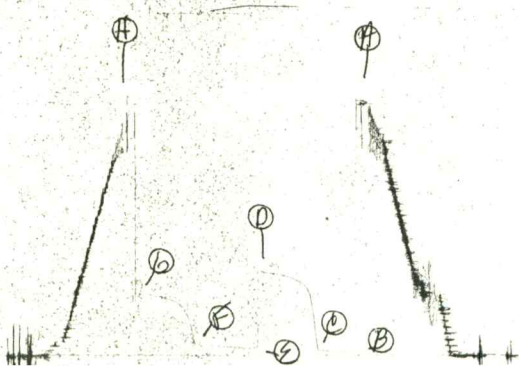
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	18	0	37	0	52	0	76
P 2 5	19	3	246	5	52	3	199
P 3 10	24	6	418	10	55	6	287
P 4 15	29	9	486	15	57	9	333
P 5 20	33	12	511	20	63	12	358
P 6 25	36	15	527	25	66	15	377
P 7 30	37	18	538	30	68	18	391
P 8		21	546	35	68	21	402
P 9		24	556	40	70	24	410
P10		27	566	45	76	27	414
P11		30	571			30	418
P12		33	577			33	424
P13		36	579			36	429
P14		39	585			39	431
P15		42	590			42	433
P16		45	592			45	434
P17							
P18							
P19							
P20							

5673

DST #1

TKT #11934

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Company Robert E. Campbell Oil & Gas Operations Lease & Well No. Kaufman #2
 Elevation 1580 Kelly Bushing Formation Mississippi Effective Pay - Ft. Ticket No. 11935
 Date 9/1/81 Sec. 7 Twp. 29S Range. 6W County Kingman State Kansas
 Test Approved by Richard A. Robba Western Representative Jeff Piotrowski

Formation Test No. 2 Interval Tested from 4103 ft. to 4118 ft. Total Depth 4118 ft.
 Packer Depth 4098 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4103 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4106 ft. Recorder Number 5673 Cap. 5400
 Bottom Recorder Depth (Outside) 4109 ft. Recorder Number 1565 Cap. 4900
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Merckel Drlg. Rig #1 Drill Collar Length - I. D. - in.
 Mud Type Monpac Viscosity 43 Weight Pipe Length 450 I. D. 3.2 in.
 Weight 9.2 Water Loss 11.0 cc. Drill Pipe Length 3633 I. D. 3.8 in.
 Chlorides 14,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 15 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.

Strong. Gas to surface in nine minutes. See attached sheet for gas measurements.

Blow:

Recovered 45 ft. of gas cut mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 3:50 ~~A.M.~~ P.M. Time Started Off Bottom 6:20 ~~A.M.~~ P.M. Maximum Temperature 120°
 Initial Hydrostatic Pressure (A) 1972 P.S.I.
 Initial Flow Period Minutes 30 (B) 19 P.S.I. to (C) 27 P.S.I.
 Initial Closed In Period Minutes 45 (D) 1333 P.S.I.
 Final Flow Period Minutes 30 (E) 24 P.S.I. to (F) 24 P.S.I.
 Final Closed In Period Minutes 45 (G) 1274 P.S.I.
 Final Hydrostatic Pressure (H) 1972 P.S.I.

GAS FLOW REPORT

Date 9/1/81 Ticket 11935 Company Robert E. Campbell Oil & Gas Operations
 Well Name and No. Kaufman #2 Dst No. 2 Interval Tested 4103'-4118'
 County Kingman State Kansas Sec. 7 Twp. 29S Rg. 6W

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
PRE FLOW Gas to surface in nine minutes.						
	10 min.	15" of water		3/4" orifice		55,200 CFPD
	20 min.	15" of water		3/4" orifice		55,200 CFPD

SECOND FLOW						
	10 min.	13" of water		1" orifice		93,600CFPD
	20 min.	19" of water		3/4" orifice		61,900 CFPD
	30 min.	19" of water		3/4" orifice		61,900 CFPD

GAS BOTTLE

Serial No. 45 Date Bottle Filled 9/1/81 Date to be Invoiced 9/1/81

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 Operations
 Authorized by Richard A. Robba

WESTERN TESTING CO., INC.

Pressure Data

Date 9/1/81 Test Ticket No. 11935
 Recorder No. 5673 Capacity 5400 Location 4106 Ft.
 Clock No. - Elevation 1580 Kelly Bushing Well Temperature 120 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1972	P.S.I.	3:50P	M
B First Initial Flow Pressure	19	P.S.I.	30	30 Mins.
C First Final Flow Pressure	27	P.S.I.	45	45 Mins.
D Initial Closed-in Pressure	1333	P.S.I.	30	30 Mins.
E Second Initial Flow Pressure	24	P.S.I.	45	45 Mins.
F Second Final Flow Pressure	24	P.S.I.		
G Final Closed-in Pressure	1274	P.S.I.		
H Final Hydrostatic Mud	1972	P.S.I.		

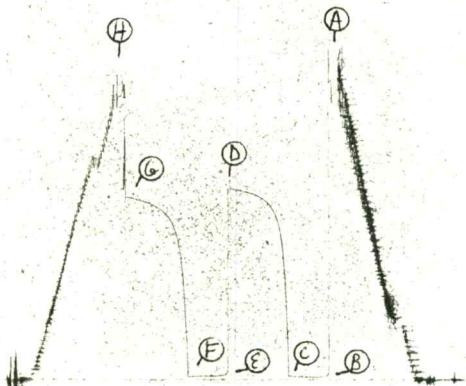
PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.
	6		15		6		15	
	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	19	0	27	0	24	0	24	
P 2 5	19	3	721	5	24	3	628	
P 3 10	19	6	1014	10	24	6	896	
P 4 15	19	9	1130	15	24	9	1024	
P 5 20	21	12	1190	20	24	12	1092	
P 6 25	24	15	1225	25	24	15	1138	
P 7 30	27	18	1249	30	24	18	1165	
P 8		21	1268			21	1190	
P 9		24	1287			24	1209	
P10		27	1298			27	1222	
P11		30	1306			30	1236	
P12		33	1312			33	1247	
P13		36	1322			36	1252	
P14		39	1328			39	1260	
P15		42	1333			42	1271	
P16		45	1333			45	1274	
P17								
P18								
P19								
P20								

5673
DST#5

TKT # 11935

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Company Robert E. Campbell Oil & Gas Operations Lease & Well No. Kaufman #2
 Elevation 1580 Kelly Bushing Formation Mississippi Effective Pay - Ft. Ticket No. 11936
 Date 9/ 2/81 Sec. 7 Twp. 29S Range 6W County Kingman State Kansas
 Test Approved by Richard A. Robba Western Representative Jeff Piotrowski

Formation Test No. 3 Interval Tested from 4120 ft. to 4142 ft. Total Depth 4142 ft.
 Packer Depth 4115 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4120 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4123 ft. Recorder Number 5673 Cap. 5400
 Bottom Recorder Depth (Outside) 4126 ft. Recorder Number 1565 Cap. 4900
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Merckel Drlg. Rig #1 Drill Collar Length - I. D. - in.
 Mud Type Monpac Viscosity 43 Weight Pipe Length 450 I. D. 3.2 in.
 Weight 9.2 Water Loss 11.0 cc. Drill Pipe Length 3650 I. D. 3.8 in.
 Chlorides 14,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 22 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. Gas to surface in four minutes. See attached sheet for gas measurements.

Recovered	60	ft. of	slightly oil cut mud	65% mud; 10% water; 15% oil; 10% gas
Recovered	120	ft. of	heavy oil cut mud	31% mud; 21% water; 28% oil; 20% gas
Recovered	55	ft. of	muddy oil	6% mud; 26% water; 30% oil; 38% gas
Recovered	5	ft. of	water	Chlorides 62,000 ppm
Recovered		ft. of		

Remarks: Plugging through initial flow period.

Time Set	6:30	A.M.	Time Started Off Bottom	10:00	A.M.	Maximum Temperature	123°
Initial Hydrostatic Pressure		P.M.		1986	P.M.		
Initial Flow Period			Minutes	30		P.S.I. to (C)	486 *
Initial Closed In Period			Minutes	45		P.S.I.	
Final Flow Period			Minutes	75		P.S.I. to (F)	99
Final Closed In Period			Minutes	63		P.S.I.	
Final Hydrostatic Pressure				1986		P.S.I.	

GAS FLOW REPORT

Date 9/2/81 Ticket 11936 Company Robert E. Campbell Oil & Gas Operations
 Well Name and No. Kaufman #2 Dst No. 3 Interval Tested 4120'-4142'
 County Kingman State Kansas Sec. 7 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
Gas to surface in four minutes. PRE FLOW						
	5 min.	12" of water		1 1/4 orifice		152,000 CFPD
	10 min.	10" of water		1" orifice		81,600 CFPD
	20 min.	9" of water		1" orifice		77,500 CFPD
	25 min.	9" of water		1" orifice		77,500 CFPD

SECOND FLOW						
	10 min.	9" of water		1/2" orifice		18,800 CFPD
	20 min.	6" of water		1/2" orifice		15,400 CFPD
	30 min.	6" of water		1/2" orifice		15,400 CFPD
	40 min.	6" of water		1/2" orifice		15,400 CFPD
	50 min.	6" of water		1/2" orifice		15,400 CFPD
	60 min.	6" of water		1/2" orifice		15,400 CFPD
	70 min.	6" of water		1/2" orifice		15,400 CFPD
	75 min.	6" of water		1/2" orifice		15,400 CFPD

GAS BOTTLE

Serial No. 613 Date Bottle Filled 9/2/81 Date to be Invoiced 9/2/81

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 Operations
 Authorized by Richard A. Robba

WESTERN TESTING CO., INC.

Pressure Data

Date 9/2/81 Test Ticket No. 11936
 Recorder No. 5673 Capacity 5400 Location 4123 Ft.
 Clock No. - Elevation 1580 Kelly Bushing Well Temperature 123 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1986	P.S.I.	6:30A	M
B First Initial Flow Pressure	148 *	P.S.I.	30	Mins. 30 Mins.
C First Final Flow Pressure	486 *	P.S.I.	45	Mins. 45 Mins.
D Initial Closed-in Pressure	1325	P.S.I.	75	Mins. 75 Mins.
E Second Initial Flow Pressure	63	P.S.I.	60	Mins. 63 Mins.
F Second Final Flow Pressure	99	P.S.I.		
G Final Closed-in Pressure	1201	P.S.I.		
H Final Hydrostatic Mud	1986	P.S.I.		

* PRESSURES QUESTIONABLE DUE TO PLUGGING
ACTION

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>15</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	0	0	148 *	0	63	0	99
P 2	5	3	224 *	5	63	3	404
P 3	10	6	224 *	10	63	6	549
P 4	15	9	126 *	15	63	9	645
P 5	20	12	126 *	20	65	12	727
P 6	25	15	202 *	25	67	15	795
P 7	30	18	486 *	30	71	18	850
P 8		21		35	77	21	899
P 9		24		40	79	24	934
P10		27		45	82	27	970
P11		30		50	85	30	1003
P12		33		55	87	33	1029
P13		36		60	93	36	1054
P14		39		65	97	39	1079
P15		42		70	98	42	1100
P16		45		75	99	45	1119
P17						48	1136
P18						51	1152
P19						54	1165
P20						57	1179
						60	1192
						63	1201

5673
DST #3

TKT # 11936
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