

Company Mid Continent Energy Corporation Lease & Well No. Harris #1
 Elevation -- Formation Douglas Sand Effective Pay -- Ft. Ticket No. 3426
 Date 8/22/79 Sec. 18 Twp. 29S Range 13W County Pratt State Kansas
 Test Approved by Wm. K. Clark Western Representative Jim Wondra

Formation Test No. 1 Interval Tested from 3950 ft. to 3995 ft. Total Depth 3995 ft.
 Packer Depth 3945 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 3950 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set --

Top Recorder Depth (Inside) 3984 ft. Recorder Number 2607 Cap. 4150
 Bottom Recorder Depth (Outside) 3987 ft. Recorder Number 3351 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Graves Drilling Rig #1 Drill Collar Length 90 I. D. 2 1/4 in.
 Mud Type starch Viscosity 35 Weight Pipe Length - I. D. - in.
 Weight 9.9 Water Loss 15.2 cc. Drill Pipe Length 3831 I. D. 3.8 in.
 Chlorides 93,500 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 OD in.
 Jars: Make WTC Serial Number 410 Anchor Length 45 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 FH in.

Blow: Fair increased to strong blow on first flow period. Strong blow throughout second flow period.

Recovered 200 ft. of gas cut mud (specks of oil)
 Recovered 10 ft. of muddy water
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s)	<u>2:45</u>	P.M. <u>A.M.</u>	Time Started Off Bottom	<u>6:30</u>	P.M. <u>A.M.</u>	Maximum Temperature	<u>117</u>
Initial Hydrostatic Pressure			(A)	<u>2218</u>		P.S.I.	
Initial Flow Period		Minutes	(B)	<u>30</u>		P.S.I. to (C)	<u>106</u> P.S.I.
Initial Closed In Period		Minutes	(D)	<u>60</u>		P.S.I.	
Final Flow Period		Minutes	(E)	<u>45</u>		P.S.I. to (F)	<u>116</u> P.S.I.
Final Closed In Period		Minutes	(G)	<u>90</u>		P.S.I.	
Final Hydrostatic Pressure			(H)	<u>2208</u>		P.S.I.	

WESTERN TESTING CO., INC.
Pressure Data

Date 8/22/79 Test Ticket No. 3426
 Recorder No. 2607 Capacity 4150 Location 3984 Ft.
 Clock No. -- Elevation -- Well Temperature 117 °F

Point	Pressure	Open Tool	Time Given	Time Computed
			2:45A	M
A Initial Hydrostatic Mud	2218 P.S.I.		30 Mins.	30 Mins.
B First Initial Flow Pressure	123 P.S.I.	First Flow Pressure	60 Mins.	60 Mins.
C First Final Flow Pressure	106 P.S.I.	Initial Closed-in Pressure	45 Mins.	45 Mins.
D Initial Closed-in Pressure	736 P.S.I.	Second Flow Pressure	90 Mins.	90 Mins.
E Second Initial Flow Pressure	133 P.S.I.	Final Closed-in Pressure		
F Second Final Flow Pressure	116 P.S.I.			
G Final Closed-in Pressure	1263 P.S.I.			
H Final Hydrostatic Mud	2208 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>9</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Final Shut-In Breakdown: <u>30</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 0	123	0	106	0	133	0	116
P 2 5	116	3	106	5	123	3	116
P 3 10	108	6	106	10	118	6	125
P 4 15	106	9	110	15	116	9	131
P 5 20	106	12	112	20	116	12	140
P 6 25	106	15	116	25	116	15	157
P 7 30	106	18	120	30	116	18	181
P 8		21	127	35	116	21	228
P 9		24	133	40	116	24	286
P10		27	144	45	116	27	390
P11		30	155			30	485
P12		33	176			33	578
P13		36	194			36	655
P14		39	226			39	713
P15		42	242			42	766
P16		45	290			45	821
P17		48	383			48	866
P18		51	463			51	904
P19		54	557			54	947
P20		57	644			57	983
		60	736			60	1019

WESTERN TESTING CO., INC.
Pressure Data

Date 8/22/79 Test Ticket No. 3426
 Recorder No. 2607 Capacity 4150 Location 3984 Ft.
 Clock No. -- Elevation -- Well Temperature 117 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2218	P.S.I.	2:45A	M
B First Initial Flow Pressure	123	P.S.I.	30	Mins. 30 Mins.
C First Final Flow Pressure	106	P.S.I.	60	Mins. 60 Mins.
D Initial Closed-in Pressure	736	P.S.I.	45	Mins. 45 Mins.
E Second Initial Flow Pressure	133	P.S.I.	90	Mins. 90 Mins.
F Second Final Flow Pressure	116	P.S.I.		
G Final Closed-in Pressure	1263	P.S.I.		
H Final Hydrostatic Mud	2208	P.S.I.		

PRESSURE BREAKDOWN

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

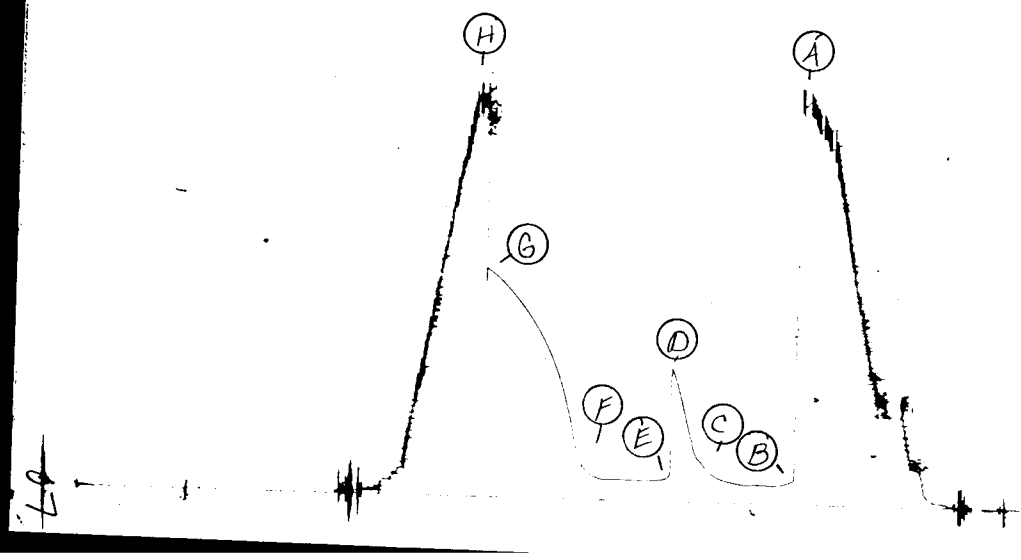
Initial Shut-In
 Breakdown: 20 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

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

Final Shut-In
 Breakdown: 30 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	1047
P 2						66	1075
P 3						69	1103
P 4						72	1130
P 5						75	1157
P 6						78	1178
P 7						81	1200
P 8						84	1223
P 9						87	1242
P10						90	1263
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

TKT # 3426
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Company Mid Continent Energy Corporation Lease & Well No. Harris #1
 Elevation -- Formation Douglas Sand Effective Pay -- Ft. Ticket No. 3427
 Date 8/22/79 Sec. 18 Twp. 29S Range 13W County Pratt State Kansas
 Test Approved by Wm. K. Clark Western Representative Jim Wondra

Formation Test No. 2 Interval Tested from 3952' ft. to 4005 ft. Total Depth 4005 ft.
 Packer Depth 3947 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 3952 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set --

Top Recorder Depth (Inside) 3995 ft. Recorder Number 2607 Cap. 4150
 Bottom Recorder Depth (Outside) 3998 ft. Recorder Number 3351 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Graves Drilling Rig #1 Drill Collar Length 120 I. D. 2 1/4 in.
 Mud Type starch Viscosity 42 Weight Pipe Length - I. D. - in.
 Weight 9.6 Water Loss 16.8 cc. Drill Pipe Length 3803 I. D. 3.8 in.
 Chlorides 65,000 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 OD in.
 Jars: Make WTC Serial Number 410 Anchor Length 53 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 FH in.

Blow: Fair, blow throughout flow periods.

Recovered 120 ft. of gas cut mud (specks of oil) TOP : 101,000 chlorides ppm
 Recovered 150 ft. of muddy water MIDDLE : 109,000 chlorides ppm
 Recovered - ft. of - BOTTOM : 129,000 chlorides ppm
 Recovered - ft. of -
 Recovered - ft. of -

Remarks: _____

Time Set Packer(s) 4:20 ~~A.M.~~ P.M. Time Started Off Bottom 10:50 ~~A.M.~~ P.M. Maximum Temperature 117
 Initial Hydrostatic Pressure (A) 2250 P.S.I.
 Initial Flow Period Minutes 60 (B) 90 P.S.I. to (C) 86 P.S.I.
 Initial Closed In Period Minutes 90 (D) 1339 P.S.I.
 Final Flow Period Minutes 120 (E) 142 P.S.I. to (F) 153 P.S.I.
 Final Closed In Period Minutes 120 (G) 1303 P.S.I.
 Final Hydrostatic Pressure (H) 2164 P.S.I.

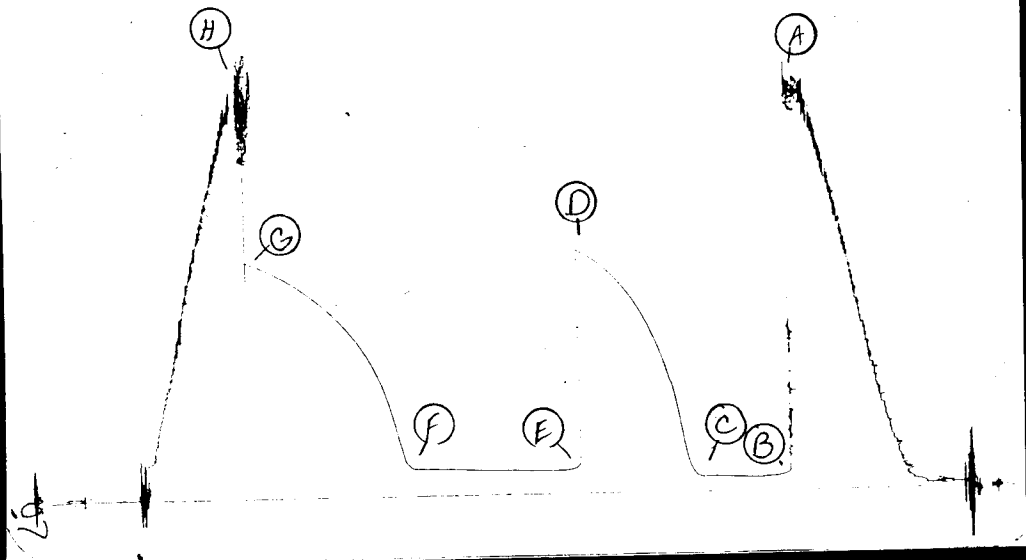
WESTERN TESTING CO., INC.
Pressure Data

Date 8/22/79 Test Ticket No. 3427
 Recorder No. 2607 Capacity 4150 Location 3995 Ft
 Clock No. -- Elevation -- Well Temperature 117 °F
 Point Pressure Time Given Time Computed
 A Initial Hydrostatic Mud 2250 P.S.I. Open Tool 4:20P M
 B First Initial Flow Pressure 90 P.S.I. First Flow Pressure 60 Mins. 60 Mins
 C First Final Flow Pressure 86 P.S.I. Initial Closed-in Pressure 90 Mins. 90 Mins
 D Initial Closed-in Pressure 1339 P.S.I. Second Flow Pressure 120 Mins. 120 Mins
 E Second Initial Flow Pressure 142 P.S.I. Final Closed-in Pressure 120 Mins. 120 Mins
 F Second Final Flow Pressure 153 P.S.I.
 G Final Closed-in Pressure 1303 P.S.I.
 H Final Hydrostatic Mud 2164 P.S.I.

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>12</u> Inc.		Breakdown: <u>30</u> Inc.		Breakdown: <u>24</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	1173	105	151	63	1044
P 2		66	1196	110	151	66	1065
P 3		69	1219	115	152	69	1083
P 4		72	1240	120	153	72	1102
P 5		75	1263			75	1121
P 6		78	1279			78	1135
P 7		81	1294			81	1147
P 8		84	1309			84	1161
P 9		87	1324			87	1176
P10		90	1339			90	1196
P11						93	1204
P12						96	1219
P13						99	1228
P14						102	1242
P15						105	1256
P16						108	1267
P17						111	1276
P18						114	1287
P19						117	1294
P20						120	1303

TKT # 3427
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Company Mid Continent Energy Corporation Lease & Well No. Harris #1
 Elevation -- Formation Mississippi Effective Pay -- Ft. Ticket No. 3429
 Date 8/25/79 Sec. 18 Twp. 29S Range 13W County Pratt State Kansas
 Test Approved by Wm. K. Clark Western Representative Jim Wondra

Formation Test No. 3 Interval Tested from 4437 ft. to 4484 ft. Total Depth 4484 ft.
 Packer Depth 4432 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4437 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set --

Top Recorder Depth (Inside) 4441 ft. Recorder Number 2607 Cap. 4150
 Bottom Recorder Depth (Outside) 4444 ft. Recorder Number 3351 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Graves Drilling Rig #1 Drill Collar Length 62 I. D. 2 1/4 in.
 Mud Type starch Viscosity 42 Weight Pipe Length - I. D. - in.
 Weight 9.6 Water Loss 12.8 cc. Drill Pipe Length 4336 I. D. 3.8 in.
 Chlorides 67,000 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 OD in.
 Jars: Make WTC Serial Number 410 Anchor Length 57 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 FH in.

Blow: Very weak blow throughout first flow period. No blow on second flow period.

Recovered 20 ft. of drilling mud
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 4:00 A.M. Time Started Off Bottom 7:45 A.M. Maximum Temperature 125
P.M. =P.M.
 Initial Hydrostatic Pressure 2384 (A) P.S.I.
 Initial Flow Period 30 Minutes (B) 91 P.S.I. to (C) 121 P.S.I.
 Initial Closed In Period 120 Minutes (D) 567 P.S.I.
 Final Flow Period 30 Minutes (E) 157 P.S.I. to (F) 180 P.S.I.
 Final Closed In Period 72 Minutes (G) 171 P.S.I.
 Final Hydrostatic Pressure 2378 (H) P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 8/25/79 Test Ticket No. 3429
 Recorder No. 2607 Capacity 4150 Location 4441 Ft.
 Clock No. -- Elevation -- Well Temperature 125 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2384	P.S.I.	4:00A	M
B First Initial Flow Pressure	91	P.S.I.	30	30
C First Final Flow Pressure	121	P.S.I.	60	120
D Initial Closed-in Pressure	567	P.S.I.	45	30
E Second Initial Flow Pressure	157	P.S.I.	90	72
F Second Final Flow Pressure	180	P.S.I.		
G Final Closed-in Pressure	171	P.S.I.		
H Final Hydrostatic Mud	2378	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.
P 1	0	91	0	121	0	157	0	180				
P 2	5	82	3	133	5	145	3	146				
P 3	10	87	6	140	10	157	6	142				
P 4	15	88	9	142	15	163	9	142				
P 5	20	99	12	144	20	174	12	142				
P 6	25	106	15	148	25	178	15	142				
P 7	30	121	18	157	30	180	18	145				
P 8			21	165			21	148				
P 9			24	176			24	150				
P10			27	184			27	154				
P11			30	193			30	157				
P12			33	201			33	160				
P13			36	213			36	163				
P14			39	225			39	165				
P15			42	237			42	167				
P16			45	248			45	169				
P17			48	260			48	171				
P18			51	279			51	171				
P19			54	288			54	171				
P20			57	299			57	171				
			60	316			60	171				

WESTERN TESTING CO., INC.

Pressure Data

Date 8/25/79 Test Ticket No. 3429
 Recorder No. 2607 Capacity 4150 Location 4441 Ft.
 Clock No. -- Elevation -- Well Temperature 125 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2384	P.S.I.	4:00A	M
B First Initial Flow Pressure	91	P.S.I.	30	30 Mins.
C First Final Flow Pressure	121	P.S.I.	60	120 Mins.
D Initial Closed-in Pressure	567	P.S.I.	45	30 Mins.
E Second Initial Flow Pressure	157	P.S.I.	90	72 Mins.
F Second Final Flow Pressure	180	P.S.I.		
G Final Closed-in Pressure	171	P.S.I.		
H Final Hydrostatic Mud	2378	P.S.I.		

PRESSURE BREAKDOWN

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

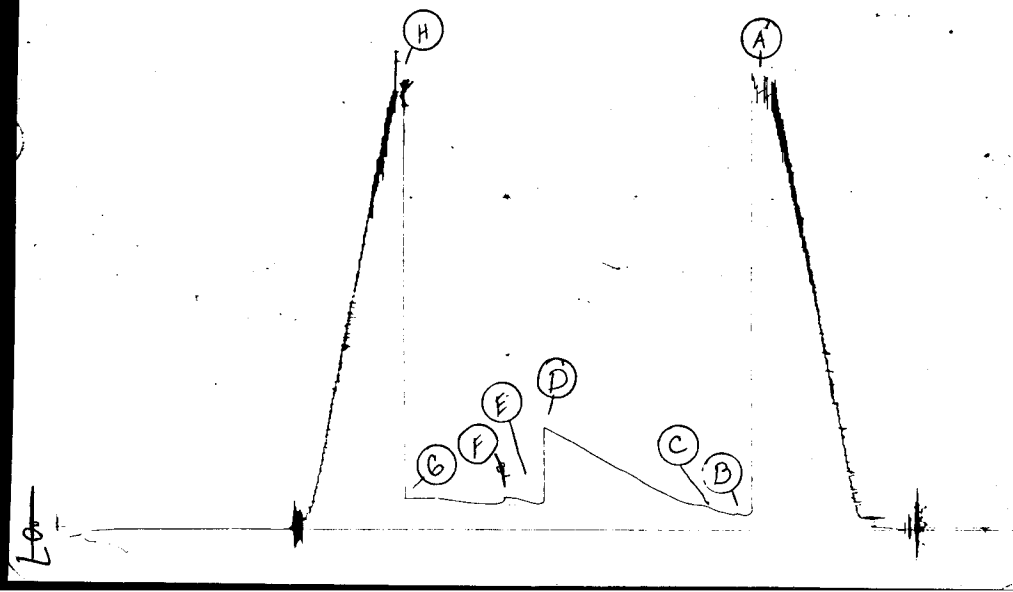
Initial Shut-In
 Breakdown: 40 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

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

Final Shut-In
 Breakdown: 24 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	328			63	171
P 2		66	337			66	171
P 3		69	349			69	171
P 4		72	362			72	171
P 5		75	375				
P 6		78	390				
P 7		81	400				
P 8		84	415				
P 9		87	428				
P10		90	443				
P11		93	458				
P12		96	469				
P13		99	483				
P14		102	494				
P15		105	506				
P16		108	512				
P17		111	529				
P18		114	540				
P19		117	552				
P20		120	567				

TRK # 3419
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Company Mid Continent Energy Corporation Lease & Well No. Harris #1
 Elevation -- Formation Viola Effective Pay -- Ft. Ticket No. 3430
 Date 8/25/79 Sec. 18 Twp. 29S Range 13W County Pratt State Kansas
 Test Approved by W. C. Clark Western Representative Jim Wondra

Formation Test No. 4 Interval Tested from 4454 ft. to 4514 ft. Total Depth 4514 ft.
 Packer Depth 4449 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4454 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set --

Top Recorder Depth (Inside) 4471 ft. Recorder Number 2607 Cap. 4150
 Bottom Recorder Depth (Outside) 4474 ft. Recorder Number 3351 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Graves Drilling Rig #1 Drill Collar Length 120 I. D. 2 1/4 in.
 Mud Type starch Viscosity 47 Weight Pipe Length - I. D. - in.
 Weight 9.5 Water Loss 9.6 cc. Drill Pipe Length 4305 I. D. 3.8 in.
 Chlorides 63,000 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 OD in.
 Jars: Make WTC Serial Number 410 Anchor Length 60 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 FH in.

Blow: Very weak blow throughout first flow period. No blow on second flow period.

Recovered 20 ft. of drilling mud
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 10:00 ~~A.M.~~ P.M. Time Started Off Bottom 12:30 ~~A.M.~~ P.M. Maximum Temperature 125
 Initial Hydrostatic Pressure 2409 (A) P.S.I.
 Initial Flow Period 30 Minutes (B) 146 P.S.I. to (C) 190 P.S.I.
 Initial Closed In Period 60 Minutes (D) 301 P.S.I.
 Final Flow Period 30 Minutes (E) 174 P.S.I. to (F) 163 P.S.I.
 Final Closed In Period 30 Minutes (G) 163 P.S.I.
 Final Hydrostatic Pressure 2390 (H) P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

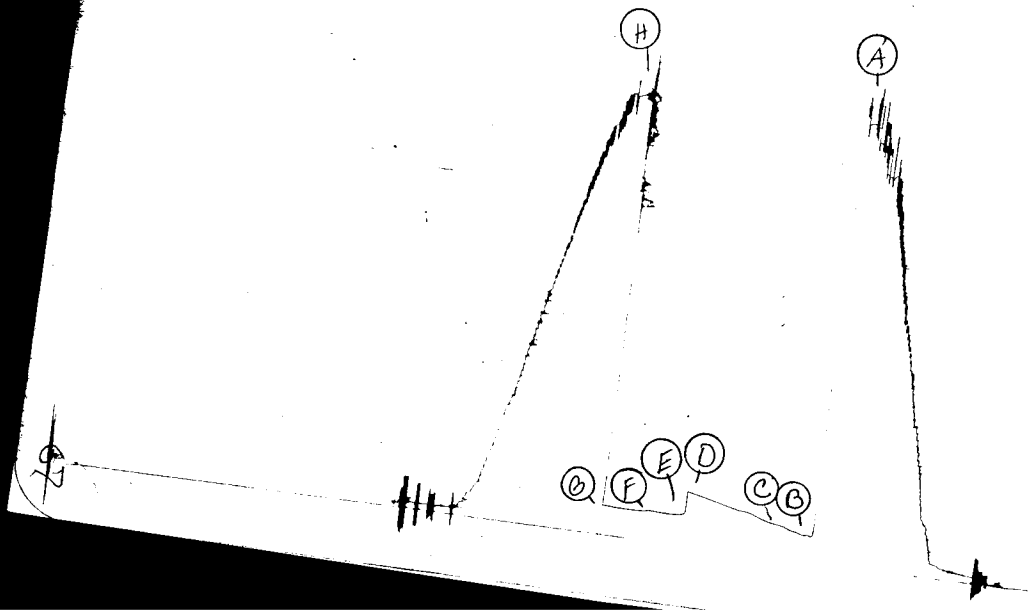
Date 8/25/79
 Recorder No. 2607
 Clock No. -- Elevation -- Capacity 4150 Test Ticket No. 3430
 Location 4471 Ft. Well Temperature 125 °F

Point	Pressure	P.S.I.	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	2409	P.S.I.		10:00P	
B First Initial Flow Pressure	146	P.S.I.	Open Tool		
C First Final Flow Pressure	190	P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	301	P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	174	P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
F Second Final Flow Pressure	163	P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
G Final Closed-in Pressure	163	P.S.I.			
H Final Hydrostatic Mud	2390	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>6</u> Inc.		Breakdown: <u>9</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.
1 0	146	0	190	0	174	0	163
2 5	150	3	192	5	167	3	163
3 10	152	6	195	10	167	6	163
4 15	163	9	207	15	167	9	163
5 20	171	12	216	20	167	12	163
6 25	184	15	227	25	167	15	163
7 30	190	18	231	30	163	18	163
8		21	235			21	163
		24	235			24	163
		27	239			27	163
		30	243			30	163
		33	249				
		36	253				
		39	258				
		42	265				
		45	271				
		48	277				
		51	283				
		54	289				
		57	295				
		60	301				

IKL # 3430
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Company Mid Continent Energy Corporation Lease & Well No. Harris #1
 Elevation -- Formation Simpson Effective Pay -- Ft. Ticket No. 3431
 Date 8/27/79 Sec. 18 Twp. 29 Range 13W County Pratt State Kansas
 Test Approved by W. K. Clark Western Representative Jim Wondra

Formation Test No. 5 Interval Tested from 4626 ft. to 4652 ft. Total Depth 4652 ft.
 Packer Depth 4621 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4626 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4642 ft. Recorder Number 2607 Cap. 4150
 Bottom Recorder Depth (Outside) 4645 ft. Recorder Number 3351 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Graves Drilling Rig #1 Drill Collar Length 90 I. D. 2 1/4 in.
 Mud Type starch Viscosity 45 Weight Pipe Length - I. D. - in.
 Weight 9.6 Water Loss 8.8 cc. Drill Pipe Length 4507 I. D. 3.8 in.
 Chlorides 50,500 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 OD in.
 Jars: Make WTC Serial Number 410 Anchor Length 26 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 FH in.

Blow: Weak blow throughout flow periods.

Recovered 60 ft. of thin mud (specks of oil on top of fluid)
 Recovered 120 ft. of muddy water
 Recovered - ft. of TOP: 64,000 chlorides ppm
 Recovered - ft. of MIDDLE: 64,000 chlorides ppm
 Recovered - ft. of BOTTOM: 71,000 chlorides ppm

Remarks: _____

Time Set Packer(s) 1:25 ^{AM}P.M. Time Started Off Bottom 5:10 ^{AM}P.M. Maximum Temperature 128
 Initial Hydrostatic Pressure (A) 2515 P.S.I.
 Initial Flow Period Minutes 30 (B) 133 P.S.I. to (C) 106 P.S.I.
 Initial Closed In Period Minutes 60 (D) 1144 P.S.I.
 Final Flow Period Minutes 45 (E) 137 P.S.I. to (F) 130 P.S.I.
 Final Closed In Period Minutes 90 (G) 1132 P.S.I.
 Final Hydrostatic Pressure (H) 2483 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 8/27/79 Test Ticket No. 3431
 Recorder No. 2607 Capacity 4150 Location 4642 Ft.
 Clock No. -- Elevation -- Well Temperature 128 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2515	P.S.I.	1:25P	M
B First Initial Flow Pressure	133	P.S.I.	30	Mins.
C First Final Flow Pressure	106	P.S.I.	60	Mins.
D Initial Closed-in Pressure	1144	P.S.I.	45	Mins.
E Second Initial Flow Pressure	137	P.S.I.	90	Mins.
F Second Final Flow Pressure	130	P.S.I.		
G Final Closed-in Pressure	1132	P.S.I.		
H Final Hydrostatic Mud	2483	P.S.I.		

Open Tool
 First Flow Pressure
 Initial Closed-in Pressure
 Second Flow Pressure
 Final Closed-in Pressure

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: 6 Inc. of 5 mins. and a final inc. of 0 Min.
Initial Shut-In Breakdown: 20 Inc. of 3 mins. and a final inc. of 0 Min.
Second Flow Pressure Breakdown: 9 Inc. of 5 mins. and a final inc. of 0 Min.
Final Shut-In Breakdown: 30 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	133	0	106	0	137	0	130
P 2 5	118	3	366	5	137	3	146
P 3 10	115	6	875	10	131	6	371
P 4 15	112	9	987	15	130	9	702
P 5 20	110	12	1025	20	130	12	910
P 6 25	108	15	1059	25	130	15	981
P 7 30	106	18	1079	30	130	18	1015
P 8		21	1088	35	130	21	1045
P 9		24	1102	40	130	24	1065
P10		27	1113	45	130	27	1077
P11		30	1224			30	1084
P12		33	1127			33	1094
P13		36	1130			36	1100
P14		39	1132			39	1105
P15		42	1136			42	1107
P16		45	1136			45	1113
P17		48	1137			48	1116
P18		51	1138			51	1119
P19		54	1139			54	1121
P19		57	1140			57	1123
P20		60	1144			60	1125

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

Date 8/27/79 Test Ticket No. 3431
 Recorder No. 2607 Capacity 4150 Location 4642
 Clock No. -- Elevation -- Well Temperature 128

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2515	P.S.I.	1:25P	M
B First Initial Flow Pressure	133	P.S.I.	30	30
C First Final Flow Pressure	106	P.S.I.	60	60
D Initial Closed-in Pressure	1144	P.S.I.	45	45
E Second Initial Flow Pressure	137	P.S.I.	90	90
F Second Final Flow Pressure	130	P.S.I.		
G Final Closed-in Pressure	1132	P.S.I.		
H Final Hydrostatic Mud	2483	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 6		of 20		of 9		of 30	
	mins.		mins.		mins.		mins.	
	and a		and a		and a		and a	
	final inc. of 5		final inc. of 3		final inc. of 5		final inc. of 3	
	Min.		Min.		Min.		Min.	
Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1						63	1127	
P 2						66	1128	
P 3						69	1129	
P 4						72	1130	
P 5						75	1132	
P 6						78	1132	
P 7						81	1132	
P 8						84	1132	
P 9						87	1132	
P10						90	1132	
P11								
P12								
P13								
P14								
P15								
P16								
P17								
P18								
P19								
P20								

TKT # 3431
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