

Company Mid-Continent Energy Corporation Lease & Well No. Whitley #1  
 Elevation 2219 Ground Level Mississippi Effective Pay - Ft. Ticket No. 4477  
 Date 4/19/80 Sec. 17 Twp. 20S Range 24W County Ness State Kansas  
 Test Approved by C.C. Buskirk Western Representative Steve Michellich

Formation Test No. 1 Interval Tested from 4369 ft. to 4385 ft. Total Depth 4385 ft.  
 Packer Depth 4352 ft. Size 6 1/2 in. Packer Depth - ft. Size - in.  
 Packer Depth 4362 ft. Size 6 1/2 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -  
 Top Recorder Depth (Inside) 4370 ft. Recorder Number 4331 Cap. 4150  
 Bottom Recorder Depth (Outside) 4382 ft. Recorder Number 13240 Cap. 4500  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Slawson Drilling Drill Collar Length 311 I. D. 2.25 in.  
 Mud Type drispac Viscosity 40 Weight Pipe Length 158 I. D. 2.76 in.  
 Weight 9.4 Water Loss 14.0 Drill Pipe Length 3820 I. D. 3.8 in.  
 Chlorides 15,000 P.P.M. Test Tool Length 26 ft. Tool Size 5 1/2 in.  
 Jars: Make WTC Serial Number 403 Anchor Length 16 ft. Size 5 1/2 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 first opening.

Recovered 124 ft. of watery mud  
 Recovered 372 ft. of muddy water  
 Recovered 372 ft. of water  
 Recovered     ft. of      
 Recovered 868 ft. of TOTAL FLUID

Remarks:    

Time Set Packer(s) 9:45 ~~A.M.~~ P.M. Time Started Off Bottom 1:30 ~~P.M.~~ A.M. Maximum Temperature -  
 Initial Hydrostatic Pressure (A) 2195 P.S.I.  
 Initial Flow Period (B) 35 Minutes P.S.I. to (C) 290 P.S.I.  
 Initial Closed In Period (D) 45 Minutes P.S.I.  
 Final Flow Period (E) 60 Minutes P.S.I. to (F) 432 P.S.I.  
 Final Closed In Period (G) 93 Minutes P.S.I.  
 Final Hydrostatic Pressure (H) 2168 P.S.I.

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

Date 4/19/80 Test Ticket No. 4477  
 Recorder No. 4331 Capacity 4150 Location 4370 Ft.  
 Clock No. -- Elevation 2219 Ground Level Well Temperature -- °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2195 P.S.I.	Open Tool	9:45P	M
B First Initial Flow Pressure	162 P.S.I.	First Flow Pressure	30	Mins. 35 Mins.
C First Final Flow Pressure	290 P.S.I.	Initial Closed-in Pressure	45	Mins. 45 Mins.
D Initial Closed-in Pressure	1411 P.S.I.	Second Flow Pressure	60	Mins. 60 Mins.
E Second Initial Flow Pressure	314 P.S.I.	Final Closed-in Pressure	90	Mins. 93 Mins.
F Second Final Flow Pressure	432 P.S.I.			
G Final Closed-in Pressure	1420 P.S.I.			
H Final Hydrostatic Mud	2168 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: 31 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	162	0	290	0	314	0	432
P 2 5	205	3	1111	5	319	3	1196
P 3 10	214	6	1245	10	321	6	1166
P 4 15	242	9	1306	15	332	9	1313
P 5 20	255	12	1336	20	343	12	1336
P 6 25	273	15	1357	25	354	15	1351
P 7 30	278	18	1370	30	365	18	1359
P 8 35	290	21	1379	35	376	21	1367
P 9		24	1387	40	387	24	1375
P10		27	1394	45	397	27	1382
P11		30	1398	50	409	30	1389
P12		33	1401	55	420	33	1392
P13		36	1403	60	432	36	1395
P14		39	1405			39	1398
P15		42	1408			42	1401
P16		45	1411			45	1404
P17						48	1406
P18						51	1408
P19						54	1410
P20						57	1412
						60	1413

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Recorder No. 4331

Capacity 4150

Location 4370 Ft.

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Well Temperature -- °F

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Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1				63	1414		
P 2				66	1416		
P 3				69	1417		
P 4				72	1418		
P 5				75	1419		
P 6				78	1419		
P 7				81	1419		
P 8				84	1420		
P 9				87	1420		
P10				90	1420		
P11				93	1420		
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

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