



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 13159

P. O. BOX 1599 WICHITA, KANSAS 67201
PHONE (316) 262-5861

Elevation 1325 Kb Formation KC Eff. Pay Ft.

District Augusta Date 1-14-82 Customer Order No.

COMPANY NAME Cuesta Energy Corp

ADDRESS 1413 Park Harvey Center, Okla City, Okla

LEASE AND WELL NO. Osner A-1 COUNTY SAMNER STATE KS. Sec. 12 Twp. 715 Rge. 34W

Mail Invoice To Same No. Copies Requested 1

Co. Name Address No. Copies Requested 5

Mail Charts To Same Address No. Copies Requested 5

Formation Test No. 1 Interval Tested from 3326 ft. to 3359 ft. Total Depth 3359 ft.

Packer Depth 3326 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 3321 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3330 ft. Recorder Number 2605 Cap. 4150

Bottom Recorder Depth (Outside) 3334 ft. Recorder Number 10979 Cap. 4100

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

Drilling Contractor Sunflower #4 Drill Collar Length 120 I. D. in.

Mud Type Starch Viscosity 38 Weight Pipe Length I. D. in.

Weight 9.6 Water Loss 17.4 cc. Drill Pipe Length I. D. in.

Chlorides 28000 P.P.M. Test Tool Length 25 ft. Tool Size 5 1/2 in.

Jars: Make WTC Serial Number Anchor Length 33 ft. Size 5 1/2 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 4 1/2 x H in.

Blow: Weak build up to fair first flow, fair blow second flow FPT

Recovered 1 ft. of free Oil

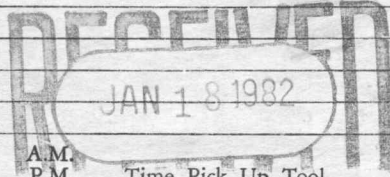
Recovered 210 ft. of muddy salt water

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:



Time On Location A.M. P.M. Time Pick Up Tool A.M. P.M. Time Off Location A.M. P.M.

Time Set Packer(s) 8:30 A.M. P.M. Time Started Off Bottom A.M. P.M. Maximum Temperature 114°

Initial Hydrostatic Pressure (A) 1681 P.S.I.

Initial Flow Period Minutes 15 (B) 73 P.S.I. to (C) 73 P.S.I.

Initial Closed In Period Minutes 45 (D) 1099 P.S.I.

Final Flow Period Minutes 75 (E) 185 P.S.I. to (F) 105 P.S.I.

Final Closed In Period Minutes 120 (G) 1068 P.S.I.

Final Hydrostatic Pressure (H) 1681 P.S.I.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Guy R. Shaffer Signature of Customer or his authorized representative

Western Representative Kenny Kirkendall

FIELD INVOICE

Table with 2 columns: Item, Amount. Includes Open Hole Test (\$625.00), Miscrun (\$), Straddle Test (\$), Jars (\$300.00), Selective Zone (\$), Safety Joint (\$65.00), Standby (\$), Evaluation (\$), Extra Packer (\$), Circ. Sub. (\$), Mileage (\$35.25), Fluid Sampler (\$), Extra Charts (\$), Insurance (\$50.00), TOTAL (\$1075.25).

WESTERN TESTING CO., INC.

Pressure Data

Date 1-14 Test Ticket No. 13159
 Recorder No. 2605 Capacity 4150 Location 3330 Ft
 Clock No. --- Elevation 1325 KB Well Temperature 114 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1686</u> P.S.I.	<u>8:30</u> A	<u>M</u>
B First Initial Flow Pressure	<u>77</u> P.S.I.	<u>15</u> Mins.	<u>15</u> Mins.
C First Final Flow Pressure	<u>77</u> P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>1094</u> P.S.I.	<u>75</u> Mins.	<u>75</u> Mins.
E Second Initial Flow Pressure	<u>106</u> P.S.I.	<u>120</u> Mins.	<u>123</u> Mins.
F Second Final Flow Pressure	<u>111</u> P.S.I.		
G Final Closed-in Pressure	<u>1082</u> P.S.I.		
H Final Hydrostatic Mud	<u>1686</u> P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>3</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>41</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	<u>77</u>	0	<u>77</u>	0	<u>106</u>	0	<u>111</u>
P 2	<u>77</u>	3	<u>260</u>	5		3	<u>195</u>
P 3	<u>77</u>	6	<u>487</u>	10		6	<u>335</u>
P 4	<u>77</u>	9	<u>726</u>	15		9	<u>441</u>
P 5		12	<u>867</u>	20		12	<u>521</u>
P 6		15	<u>931</u>	25		15	<u>587</u>
P 7		18	<u>971</u>	30		18	<u>655</u>
P 8		21	<u>1000</u>	35		21	<u>713</u>
P 9		24	<u>1021</u>	40		24	<u>767</u>
P10		27	<u>1039</u>	45		27	<u>811</u>
P11		30	<u>1054</u>	50	<u>106</u>	30	<u>850</u>
P12		33	<u>1064</u>	55	<u>107</u>	33	<u>881</u>
P13		36	<u>1074</u>	60	<u>108</u>	36	<u>904</u>
P14		39	<u>1083</u>	65	<u>109</u>	39	<u>923</u>
P15		42	<u>1091</u>	70	<u>110</u>	42	<u>940</u>
P16		45	<u>1094</u>	75	<u>111</u>	45	<u>952</u>
P17		48		80		48	<u>967</u>
P18		51		85		51	<u>977</u>
P19		54		90		54	<u>988</u>
P20		57				57	<u>996</u>
		60				60	<u>1004</u>

WESTERN TESTING CO., INC.
Pressure Data

Date _____

Test Ticket No. 13159

Recorder No. _____ Capacity _____ Location _____ Ft

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud _____	P.S.I.	Open Tool _____	M _____	
B First Initial Flow Pressure _____	P.S.I.	First Flow Pressure _____	Mins. _____	Mins. _____
C First Final Flow Pressure _____	P.S.I.	Initial Closed-in Pressure _____	Mins. _____	Mins. _____
D Initial Closed-in Pressure _____	P.S.I.	Second Flow Pressure _____	Mins. _____	Mins. _____
E Second Initial Flow Pressure _____	P.S.I.	Final Closed-in Pressure _____	Mins. _____	Mins. _____
F Second Final Flow Pressure _____	P.S.I.			
G Final Closed-in Pressure _____	P.S.I.			
H Final Hydrostatic Mud _____	P.S.I.			

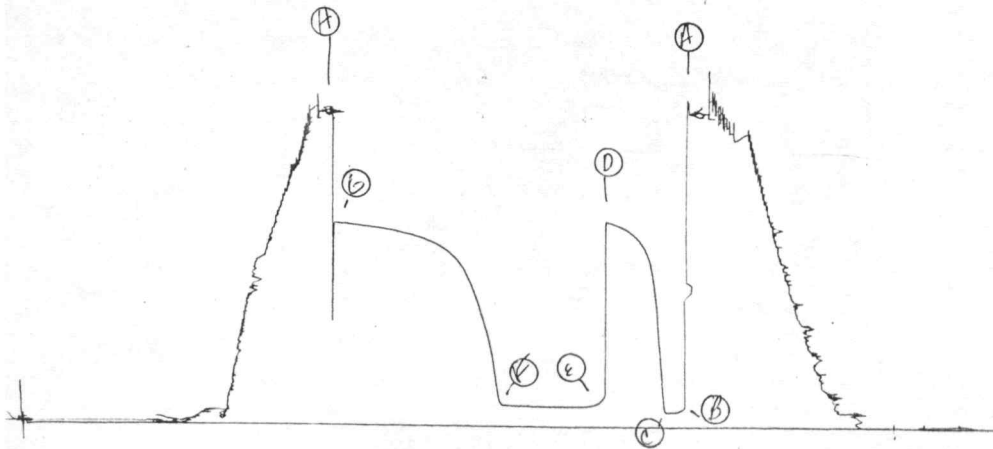
PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In			
	Breakdown: _____ Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: _____ Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: _____ Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: _____ Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.			
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 _____	_____	63	_____	_____	_____	63	<u>1010</u>
P 2 _____	_____	66	_____	_____	_____	66	<u>1019</u>
P 3 _____	_____	69	_____	_____	_____	69	<u>1023</u>
P 4 _____	_____	72	_____	_____	_____	72	<u>1027</u>
P 5 _____	_____	75	_____	_____	_____	75	<u>1032</u>
P 6 _____	_____	78	_____	_____	_____	78	<u>1037</u>
P 7 _____	_____	81	_____	_____	_____	81	<u>1043</u>
P 8 _____	_____	84	_____	_____	_____	84	<u>1048</u>
P 9 _____	_____	87	_____	_____	_____	87	<u>1051</u>
P10 _____	_____	90	_____	_____	_____	90	<u>1054</u>
P11 _____	_____	93	_____	_____	_____	93	<u>1057</u>
P12 _____	_____	96	_____	_____	_____	96	<u>1060</u>
P13 _____	_____	99	_____	_____	_____	99	<u>1063</u>
P14 _____	_____	102	_____	_____	_____	102	<u>1065</u>
P15 _____	_____	105	_____	_____	_____	105	<u>1067</u>
P16 _____	_____	108	_____	_____	_____	108	<u>1070</u>
P17 _____	_____	111	_____	_____	_____	111	<u>1073</u>
P18 _____	_____	114	_____	_____	_____	114	<u>1076</u>
P19 _____	_____	117	_____	_____	_____	117	<u>1079</u>
P20 _____	_____	120	_____	_____	_____	120	<u>1081</u>
						<u>123</u>	<u>1082</u>

2605

HA # 13159

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Company Cuesta Energy Corporation Lease & Well No. Osner "A" #1
 Elevation 1325 Kelly Bushing Formation Kansas City Effective Pay - Ft. Ticket No. 13159
 Date 1/14/82 Sec. 12 Twp. 31S Range 3W County Sumner State Kansas
 Test Approved by Guy R. Shaffer Western Representative Kenny Kirkendall

Formation Test No. 1 Interval Tested from 3326 ft. to 3359 ft. Total Depth 3359 ft.
 Packer Depth 3326 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 3321 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3330 ft. Recorder Number 2605 Cap. 4150
 Bottom Recorder Depth (Outside) 3334 ft. Recorder Number 10979 Cap. 4100
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Sunflower Drlg. Rig #4 Drill Collar Length 120 I. D. - in.
 Mud Type starch Viscosity 38 Weight Pipe Length - I. D. - in.
 Weight 9.6 Water Loss 17.6 cc. Drill Pipe Length - I. D. - in.
 Chlorides 28,000 P.P.M. Test Tool Length 25 ft. Tool Size 5 1/2 in.
 Jars: Make WTC Serial Number 402 Anchor Length 33 ft. Size 5 1/2 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 4 1/2 XH in.

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

Recovered 1 ft. of free oil
 Recovered 210 ft. of muddy salt water Chlorides 64,000 ppm
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s)	<u>8:30</u>	<u>A.M.</u> P.M.	Time Started Off Bottom	<u> </u>	<u>A.M.</u> <u>P.M.</u>	Maximum Temperature	<u>114°</u>
Initial Hydrostatic Pressure	<u> </u>		(A)	<u>1686</u>	<u>P.S.I.</u>		
Initial Flow Period	<u> </u>	Minutes	<u>15</u>	(B)	<u>77</u>	P.S.I. to (C)	<u>77</u> P.S.I.
Initial Closed In Period	<u> </u>	Minutes	<u>45</u>	(D)	<u>1094</u>	<u>P.S.I.</u>	
Final Flow Period	<u> </u>	Minutes	<u>75</u>	(E)	<u>106</u>	P.S.I. to (F)	<u>111</u> P.S.I.
Final Closed In Period	<u> </u>	Minutes	<u>123</u>	(G)	<u>1082</u>	<u>P.S.I.</u>	
Final Hydrostatic Pressure	<u> </u>		(H)	<u>1686</u>	<u>P.S.I.</u>		

WESTERN TESTING CO., INC.

Pressure Data

Date 1/14/82 Test Ticket No. 13159
 Recorder No. 2605 Capacity 4150 Location 3330 Ft.
 Clock No. -- Elevation 1325 Kelly Bushing Well Temperature 114 °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>1686</u>	P.S.I.	<u>8:30A</u>	<u>M</u>
B. First Initial Flow Pressure	<u>77</u>	P.S.I.	<u>15</u>	<u>15</u> Mins.
C. First Final Flow Pressure	<u>77</u>	P.S.I.	<u>45</u>	<u>45</u> Mins.
D. Initial Closed-in Pressure	<u>1094</u>	P.S.I.	<u>75</u>	<u>75</u> Mins.
E. Second Initial Flow Pressure	<u>106</u>	P.S.I.	<u>120</u>	<u>123</u> Mins.
F. Second Final Flow Pressure	<u>111</u>	P.S.I.		
G. Final Closed-in Pressure	<u>1082</u>	P.S.I.		
H. Final Hydrostatic Mud	<u>1686</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 3 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: 15 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 41 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 <u>0</u>	<u>77</u>	<u>0</u>	<u>77</u>	<u>0</u>	<u>106</u>	<u>0</u>	<u>111</u>
P 2 <u>5</u>	<u>77</u>	<u>3</u>	<u>260</u>	<u>5</u>	<u>106</u>	<u>3</u>	<u>195</u>
P 3 <u>10</u>	<u>77</u>	<u>6</u>	<u>487</u>	<u>10</u>	<u>106</u>	<u>6</u>	<u>335</u>
P 4 <u>15</u>	<u>77</u>	<u>9</u>	<u>726</u>	<u>15</u>	<u>106</u>	<u>9</u>	<u>441</u>
P 5 _____	_____	<u>12</u>	<u>867</u>	<u>20</u>	<u>106</u>	<u>12</u>	<u>521</u>
P 6 _____	_____	<u>15</u>	<u>931</u>	<u>25</u>	<u>106</u>	<u>15</u>	<u>587</u>
P 7 _____	_____	<u>18</u>	<u>971</u>	<u>30</u>	<u>106</u>	<u>18</u>	<u>655</u>
P 8 _____	_____	<u>21</u>	<u>1000</u>	<u>35</u>	<u>106</u>	<u>21</u>	<u>713</u>
P 9 _____	_____	<u>24</u>	<u>1021</u>	<u>40</u>	<u>106</u>	<u>24</u>	<u>767</u>
P10 _____	_____	<u>27</u>	<u>1039</u>	<u>45</u>	<u>106</u>	<u>27</u>	<u>811</u>
P11 _____	_____	<u>30</u>	<u>1054</u>	<u>50</u>	<u>106</u>	<u>30</u>	<u>850</u>
P12 _____	_____	<u>33</u>	<u>1064</u>	<u>55</u>	<u>107</u>	<u>33</u>	<u>881</u>
P13 _____	_____	<u>36</u>	<u>1074</u>	<u>60</u>	<u>108</u>	<u>36</u>	<u>904</u>
P14 _____	_____	<u>39</u>	<u>1083</u>	<u>65</u>	<u>109</u>	<u>39</u>	<u>923</u>
P15 _____	_____	<u>42</u>	<u>1091</u>	<u>70</u>	<u>110</u>	<u>42</u>	<u>940</u>
P16 _____	_____	<u>45</u>	<u>1094</u>	<u>75</u>	<u>111</u>	<u>45</u>	<u>952</u>
P17 _____	_____	_____	_____	_____	_____	<u>48</u>	<u>967</u>
P18 _____	_____	_____	_____	_____	_____	<u>51</u>	<u>977</u>
P19 _____	_____	_____	_____	_____	_____	<u>54</u>	<u>988</u>
P20 _____	_____	_____	_____	_____	_____	<u>57</u>	<u>996</u>
						<u>60</u>	<u>1004</u>

WESTERN TESTING CO., INC.

Pressure Data

Date 1/14/82 Recorder No. 2605 Capacity 4150 Test Ticket No. 13159
 Location 3330 Ft. Elevation 1325 Kelly Bushing Well Temperature 114 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1686</u> P.S.I.	Open Tool	<u>8:30A</u> M	
B First Initial Flow Pressure	<u>77</u> P.S.I.	First Flow Pressure	<u>15</u> Mins.	<u>15</u> Mins.
C First Final Flow Pressure	<u>77</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>1094</u> P.S.I.	Second Flow Pressure	<u>75</u> Mins.	<u>75</u> Mins.
E Second Initial Flow Pressure	<u>106</u> P.S.I.	Final Closed-in Pressure	<u>120</u> Mins.	<u>123</u> Mins.
F Second Final Flow Pressure	<u>111</u> P.S.I.			
G Final Closed-in Pressure	<u>1082</u> P.S.I.			
H Final Hydrostatic Mud	<u>1686</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 3 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: 15 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 41 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	1010
P 2						66	1019
P 3						69	1023
P 4						72	1027
P 5						75	1032
P 6						78	1037
P 7						81	1043
P 8						84	1048
P 9						87	1051
P10						90	1054
P11						93	1057
P12						96	1060
P13						99	1063
P14						102	1065
P15						105	1067
P16						108	1070
P17						111	1073
P18						114	1076
P19						117	1079
P20						120	1081
						123	1082