

Company Longhorn Energy Resources, Inc. Lease & Well No. #1 Lunt
Elevation - Formation Lansing Effective Pay - Ft. Ticket No. 16391
Date 8/31/82 Sec. 18 Twp. 28S Range 11W County Pratt State Kansas
Test Approved by David J. Goldak Western Representative Jim Wondra
Formation Test No. 1 Interval Tested from 3802 ft. to 3818 ft. Total Depth 3818 ft.
Packer Depth 3797 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 3802 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 3807 ft. Recorder Number 2607 Cap. 4150
Bottom Recorder Depth (Outside) 3810 ft. Recorder Number 3351 Cap. 4000
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Big H Rig #1 Drill Collar Length 470 I. D. 2 1/4 in.
Mud Type Premix-Drispac Viscosity 43 Weight Pipe Length - I. D. - in.
Weight 9.1 Water Loss 60 cc. Drill Pipe Length 3312 I. D. 3.8 in.
Chlorides 9,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD in.
Jars: Make - Serial Number - Anchor Length 16 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: Strong blow throughout test.

Recovered 10 ft. of oil & gas cut mud
Recovered 740 ft. of gassy salt water Chlorides 117,000 PPM
Recovered ft. of
Recovered ft. of
Recovered ft. of

Remarks:

Time Set Packer(s) 3:50 A.M. Time Started Off Bottom 8:35 A.M. Maximum Temperature 116
Initial Hydrostatic Pressure (A) 1954 P.S.I.
Initial Flow Period Minutes 30 (B) 116 P.S.I. to (C) 164 P.S.I.
Initial Closed In Period Minutes 48 (D) 1330 P.S.I.
Final Flow Period Minutes 115 (E) 287 P.S.I. to (F) 398 P.S.I.
Final Closed In Period Minutes 90 (G) 1268 P.S.I.
Final Hydrostatic Pressure (H) 1913 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 8/31/82 Test Ticket No. 16391
 Recorder No. 2607 Capacity 4150 Location 3807 Ft.
 Clock No. - Elevation - Well Temperature 116 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1954</u> P.S.I.	<u>3:50P</u>	<u>M</u>
B First Initial Flow Pressure	<u>116</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>164</u> P.S.I.	<u>45</u> Mins.	<u>48</u> Mins.
D Initial Closed-in Pressure	<u>1330</u> P.S.I.	<u>120</u> Mins.	<u>115</u> Mins.
E Second Initial Flow Pressure	<u>287</u> P.S.I.	<u>90</u> Mins.	<u>90</u> Mins.
F Second Final Flow Pressure	<u>398</u> P.S.I.		
G Final Closed-in Pressure	<u>1268</u> P.S.I.		
H Final Hydrostatic Mud	<u>1913</u> P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>16</u> Inc.		Breakdown: <u>23</u> Inc.		Breakdown: <u>30</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>0</u>	<u>116</u>	<u>0</u>	<u>164</u>	<u>0</u>	<u>287</u>	<u>0</u>	<u>398</u>
P 2 <u>5</u>	<u>116</u>	<u>3</u>	<u>664</u>	<u>5</u>	<u>287</u>	<u>3</u>	<u>969</u>
P 3 <u>10</u>	<u>117</u>	<u>6</u>	<u>1119</u>	<u>10</u>	<u>287</u>	<u>6</u>	<u>1086</u>
P 4 <u>15</u>	<u>122</u>	<u>9</u>	<u>1196</u>	<u>15</u>	<u>287</u>	<u>9</u>	<u>1125</u>
P 5 <u>20</u>	<u>131</u>	<u>12</u>	<u>1233</u>	<u>20</u>	<u>290</u>	<u>12</u>	<u>1148</u>
P 6 <u>25</u>	<u>146</u>	<u>15</u>	<u>1258</u>	<u>25</u>	<u>293</u>	<u>15</u>	<u>1163</u>
P 7 <u>30</u>	<u>164</u>	<u>18</u>	<u>1269</u>	<u>30</u>	<u>300</u>	<u>18</u>	<u>1171</u>
P 8		<u>21</u>	<u>1281</u>	<u>35</u>	<u>305</u>	<u>21</u>	<u>1183</u>
P 9		<u>24</u>	<u>1290</u>	<u>40</u>	<u>307</u>	<u>24</u>	<u>1190</u>
P10		<u>27</u>	<u>1298</u>	<u>45</u>	<u>310</u>	<u>27</u>	<u>1200</u>
P11		<u>30</u>	<u>1305</u>	<u>50</u>	<u>317</u>	<u>30</u>	<u>1206</u>
P12		<u>33</u>	<u>1310</u>	<u>55</u>	<u>323</u>	<u>33</u>	<u>1212</u>
P13		<u>36</u>	<u>1315</u>	<u>60</u>	<u>327</u>	<u>36</u>	<u>1218</u>
P14		<u>39</u>	<u>1319</u>	<u>65</u>	<u>334</u>	<u>39</u>	<u>1224</u>
P15		<u>42</u>	<u>1323</u>	<u>70</u>	<u>340</u>	<u>42</u>	<u>1227</u>
P16		<u>45</u>	<u>1326</u>	<u>75</u>	<u>348</u>	<u>45</u>	<u>1230</u>
P17		<u>48</u>	<u>1330</u>	<u>80</u>	<u>356</u>	<u>48</u>	<u>1233</u>
P18				<u>85</u>	<u>362</u>	<u>51</u>	<u>1236</u>
P19				<u>90</u>	<u>369</u>	<u>54</u>	<u>1239</u>
P20				<u>95</u>	<u>374</u>	<u>57</u>	<u>1242</u>
				<u>100</u>	<u>380</u>	<u>60</u>	<u>1245</u>

WESTERN TESTING CO., INC.

Pressure Data

Date 8/31/82 Test Ticket No. 16391

Recorder No. 2607 Capacity 4150 Location 3807 Ft.

Clock No. - Elevation - Well Temperature 116 °F

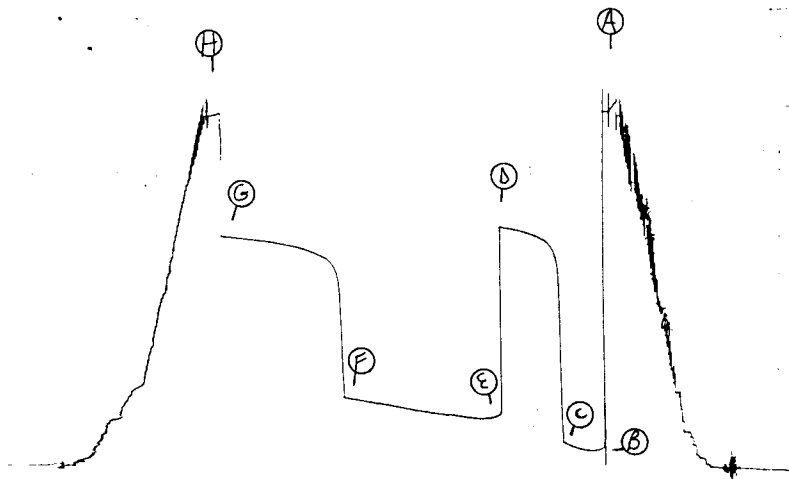
Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1954</u> P.S.I.	<u>3:50P</u>	<u>M</u>
B First Initial Flow Pressure	<u>116</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>164</u> P.S.I.	<u>45</u> Mins.	<u>48</u> Mins.
D Initial Closed-in Pressure	<u>1330</u> P.S.I.	<u>120</u> Mins.	<u>115</u> Mins.
E Second Initial Flow Pressure	<u>287</u> P.S.I.	<u>90</u> Mins.	<u>90</u> Mins.
F Second Final Flow Pressure	<u>398</u> P.S.I.		
G Final Closed-in Pressure	<u>1268</u> P.S.I.		
H Final Hydrostatic Mud	<u>1913</u> P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>16</u> Inc.		Breakdown: <u>23</u> Inc.		Breakdown: <u>30</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				105	387	63	1248
P 2				110	392	66	1251
P 3				115	398	69	1254
P 4						72	1257
P 5						75	1260
P 6						78	1262
P 7						81	1264
P 8						84	1266
P 9						87	1267
P10						90	1268
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

TKT # 16391

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WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

OK
No 16391

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

Elevation _____ Formation Lansing Eff. Pay _____ Ft.

District Pratt Date 8/31/82 Customer Order No. _____

COMPANY NAME Long Horn Energy Resources, Inc.

ADDRESS PO 1314 Bl. Bank, KS 67530

LEASE AND WELL NO. Lunt #1 COUNTY Pratt STATE Ks Sec. 18 Twp. 28 Rge. 11 W

Mail Invoice To Same #1 LUNT No. Copies Requested 5

Mail Charts To Same No. Copies Requested 5

Address _____

Formation Test No. 1 Interval Tested From 3802 ft. to 3818 ft. Total Depth 3818 ft.

Packer Depth 3797 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 3802 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3807 ft. Recorder Number 2607 Cap. 4150

Bottom Recorder Depth (Outside) 3810 ft. Recorder Number 3351 Cap. 4000

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

Drilling Contractor B's H Drill Collar Length 470 I. D. 2 1/2 in.

Mud Type Premix - Drispac Viscosity 43 Weight Pipe Length _____ I. D. _____ in.

Weight 9.1 Water Loss 6.0 cc. Drill Pipe Length 3312 I. D. 3.8 in.

Chlorides 9,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.

Jars: Make No Serial Number No Anchor Length 16 ft. Size 5 1/2 in.

Did Well Flow? No Reversed Out No Surface Choke Size 2 1/4 in. Bottom Choke Size 3 1/4 in.

Main Hole Size 7 1/2 in. Tool Joint Size 4 1/2 FH in.

Blow: Strong blow throughout flow periods

Recovered 10 ft. of Oil & Gas Cut Mud

Recovered 740 ft. of Gassy Salt Water (117,000 p.p.m.)

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: _____

Time On Location 2:00 ~~A.M.~~ P.M. Time Pick Up Tool 2:30 ~~A.M.~~ P.M. Time Off Location 11:00 ~~A.M.~~ P.M.

Time Set Packer(s) 3:50 ~~A.M.~~ P.M. Time Started Off Bottom 8:35 ~~A.M.~~ P.M. Maximum Temperature 116°

Initial Hydrostatic Pressure _____ (A) 1941 P.S.I.

Initial Flow Period _____ Minutes 30 (B) 105 P.S.I. to (C) 148 P.S.I.

Initial Closed In Period _____ Minutes 45 (D) 1311 P.S.I.

Final Flow Period _____ Minutes 120 (E) 275 P.S.I. to (F) 381 P.S.I.

Final Closed In Period _____ Minutes 90 (G) 1259 P.S.I.

Final Hydrostatic Pressure _____ (H) 1920 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: David J. Goldak
Signature of Customer or his authorized representative

Western Representative: Jim Wardha Thad You

FIELD INVOICE

Open Hole Test \$ 600.00
Misrun \$ _____
Straddle Test \$ _____
Jars \$ _____
Selective Zone \$ _____
Safety Joint \$ _____
Standby \$ _____
Evaluation \$ _____
Extra Packer \$ _____
Circ. Sub. \$ _____
Mileage \$ _____
Fluid Sampler \$ _____
Extra Charts \$ _____
Insurance \$ 50.00
Telecopier \$ _____
TOTAL \$ 650.00

WESTERN TESTING CO., INC.

Pressure Data

Date 8-31 Test Ticket No. 16391
 Recorder No. 2607 Capacity 4150 Location 3807 Ft.
 Clock No. Elevation Well Temperature 116 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1954</u> P.S.I.	<u>3:50 P</u>	
B First Initial Flow Pressure	<u>116</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>164</u> P.S.I.	<u>45</u> Mins.	<u>48</u> Mins.
D Initial Closed-in Pressure	<u>1330</u> P.S.I.	<u>120</u> Mins.	<u>115</u> Mins.
E Second Initial Flow Pressure	<u>287</u> P.S.I.	<u>90</u> Mins.	<u>90</u> Mins.
F Second Final Flow Pressure	<u>398</u> P.S.I.		
G Final Closed-in Pressure	<u>1268</u> P.S.I.		
H Final Hydrostatic Mud	<u>1913</u> 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: 16 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Second Flow Pressure
 Breakdown: 23 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	116	0	164	0	287	0	398
P 2 5	116	3	664	5	5	3	969
P 3 10	117	6	1119	10	5	6	1086
P 4 15	122	9	1196	15	287	9	1125
P 5 20	131	12	1233	20	290	12	1148
P 6 25	146	15	1258	25	293	15	1163
P 7 30	164	18	1269	30	300	18	1171
P 8 35		21	1281	35	305	21	1183
P 9 40		24	1290	40	307	24	1190
P 10 45		27	1298	45	310	27	1200
P 11 50		30	1305	50	317	30	1206
P 12 55		33	1310	55	323	33	1212
P 13 60		36	1315	60	327	36	1218
P 14		39	1319	65	334	39	1224
P 15		42	1323	70	340	42	1227
P 16		45	1326	75	348	45	1230
P 17		48	1330	80	356	48	1233
P 18		51		85	362	51	1236
P 19		54		90	369	54	1239
		57		95	374	57	1242
		60		100	380	60	1245

cont

cont

WESTERN TESTING CO., INC.

Pressure Data

Date _____ Test Ticket No. _____

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

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		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		105	387	63	1248
P 2		66		110	392	66	1251
P 3		69		115	398	69	1254
P 4		72		120		72	1257
P 5		75				75	1260
P 6		78				78	1262
P 7		81				81	1264
P 8		84				84	1266
P 9		87				87	1267
P10		90				90	1268
P11		93				93	
P12		96				96	
P13		99				99	
P14		102				102	
P15		105				105	
P16		108				108	
P17		111				111	
P18		114				114	
P19		117				117	
P20		120				120	

Company Longhorn Energy Resources, Inc. Lease & Well No. #1 Lunt
Elevation - Formation Marmaton Effective Pay - Ft. Ticket No. 16392
Date 9/1/82 Sec. 18 Twp. 28S Range 11W County Pratt State Kansas
Test Approved by David J. Goldak Western Representative Jim Wondra

Formation Test No. 2 Interval Tested from 3902 ft. to 3926 ft. Total Depth 3926 ft.

Packer Depth 3897 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth 3902 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3915 ft. Recorder Number 2607 Cap. 4150

Bottom Recorder Depth (Outside) 3918 ft. Recorder Number 3351 Cap. 4000

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

Drilling Contractor Big H Rig #1 Drill Collar Length 470 I. D. 2 3/4 in.

Mud Type Premix-Drispac Viscosity 43 Weight Pipe Length - I. D. - in.

Weight 9.4 Water Loss 12.8 cc. Drill Pipe Length 3411 I. D. 3.8 in.

Chlorides 11,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD in.

Jars: Make - Serial Number - Anchor Length 24 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: Strong blow throughout initial flow period. Weak increased to fair blow on final flow period.

Recovered 20 ft. of oil & gas cut mud

Recovered 480 ft. of salt water Chlorides 118,000 PPM

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 2:30 A.M. Time Started Off Bottom 5:15 A.M. Maximum Temperature 117

Initial Hydrostatic Pressure (A) 2063 P.S.I.

Initial Flow Period Minutes 30 (B) 115 P.S.I. to (C) 140 P.S.I.

Initial Closed In Period Minutes 45 (D) 1264 P.S.I.

Final Flow Period Minutes 45 (E) 246 P.S.I. to (F) 269 P.S.I.

Final Closed In Period Minutes 45 (G) 1182 P.S.I.

Final Hydrostatic Pressure (H) 2000 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 9/1/82 Test Ticket No. 16392

Recorder No. 2607 Capacity 4150 Location 3915 Ft.

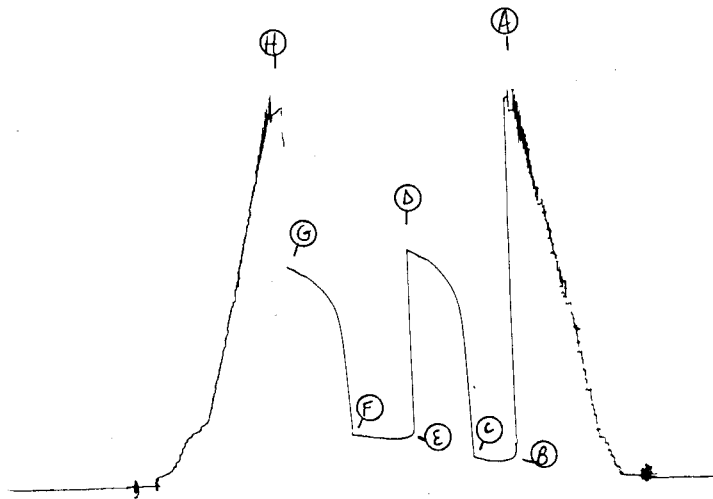
Clock No. - Elevation - Well Temperature 117 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud <u>2063</u> P.S.I.	Open Tool	<u>2:30P</u> M	
B First Initial Flow Pressure <u>115</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure <u>140</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure <u>1264</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure <u>246</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
F Second Final Flow Pressure <u>269</u> P.S.I.			
G Final Closed-in Pressure <u>1182</u> P.S.I.			
H Final Hydrostatic Mud <u>2000</u> P.S.I.			

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>9</u> Inc.		Breakdown: <u>15</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>0</u>	<u>115</u>	<u>0</u>	<u>140</u>	<u>0</u>	<u>246</u>	<u>0</u>	<u>269</u>
P 2 <u>5</u>	<u>115</u>	<u>3</u>	<u>436</u>	<u>5</u>	<u>246</u>	<u>3</u>	<u>600</u>
P 3 <u>10</u>	<u>115</u>	<u>6</u>	<u>789</u>	<u>10</u>	<u>246</u>	<u>6</u>	<u>829</u>
P 4 <u>15</u>	<u>117</u>	<u>9</u>	<u>954</u>	<u>15</u>	<u>246</u>	<u>9</u>	<u>927</u>
P 5 <u>20</u>	<u>120</u>	<u>12</u>	<u>1021</u>	<u>20</u>	<u>250</u>	<u>12</u>	<u>979</u>
P 6 <u>25</u>	<u>130</u>	<u>15</u>	<u>1067</u>	<u>25</u>	<u>253</u>	<u>15</u>	<u>1016</u>
P 7 <u>30</u>	<u>140</u>	<u>18</u>	<u>1102</u>	<u>30</u>	<u>256</u>	<u>18</u>	<u>1044</u>
P 8		<u>21</u>	<u>1132</u>	<u>35</u>	<u>261</u>	<u>21</u>	<u>1069</u>
P 9		<u>24</u>	<u>1160</u>	<u>40</u>	<u>265</u>	<u>24</u>	<u>1089</u>
P10		<u>27</u>	<u>1182</u>	<u>45</u>	<u>269</u>	<u>27</u>	<u>1109</u>
P11		<u>30</u>	<u>1205</u>			<u>30</u>	<u>1125</u>
P12		<u>33</u>	<u>1214</u>			<u>33</u>	<u>1137</u>
P13		<u>36</u>	<u>1225</u>			<u>36</u>	<u>1149</u>
P14		<u>39</u>	<u>1238</u>			<u>39</u>	<u>1165</u>
P15		<u>42</u>	<u>1252</u>			<u>42</u>	<u>1173</u>
P16		<u>45</u>	<u>1264</u>			<u>45</u>	<u>1182</u>
P17							
P18							
P19							
P20							

TKT # 16392
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J =



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET

N^o 16392

P. O. BOX 1599 PHONE (316) 262-5861

WICHITA, KANSAS 67201

Elevation _____ Formation _____ Eff. Pay _____ Ft.

District Pratt Date 9/1/82 Customer Order No. _____
COMPANY NAME Longhorn Exploration Energy Resources, Inc
ADDRESS 701314 Bl. Banks, Ka 67530
LEASE AND WELL NO Lunt #1 COUNTY Pratt STATE Ks Sec. 18 Twp. 28 Rge. 11W
Mail Invoice To Same #1 LUNT No. Copies Requested 5
Co. Name _____ Address _____
Mail Charts To Same No. Copies Requested 5
Address _____

Formation Test No. 2 Interval Tested From 3902 ft. to 3926 ft. Total Depth 3926 ft.
Packer Depth 3897 ft. Size 6 5/8 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 3902 ft. Size 6 5/8 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____
Top Recorder Depth (Inside) 3915 ft. Recorder Number 2607 Cap. 4150
Bottom Recorder Depth (Outside) 3918 ft. Recorder Number 3351 Cap. 4000
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____
Drilling Contractor Big H Rig #1 Drill Collar Length 470 I. D. 2 1/2 in.
Mud Type Premix Drypac Viscosity 43 Weight Pipe Length _____ I. D. _____ in.
Weight 9.4 Water Loss 12.8 cc. Drill Pipe Length 3411 I. D. 3.8 in.
Chlorides 11,000 P.P.M. Test Tool Length _____ ft. Tool Size 5 1/2 in.
Jars: Make _____ Serial Number _____ Anchor Length 24 ft. Size 5 1/2 in.
Did Well Flow? No Reversed Out No Surface Choke Size 3 1/4 in. Bottom Choke Size 3 1/4 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Strong blow throughout first flow period
Weak increased to fair blow on second flow period
Recovered 20 ft. of Oil & Gas Cut Mud
Recovered 480 ft. of Salt Water (118,000 p.p.m.)
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Remarks: _____

RECEIVED
SEP 7 1982

Time On Location 12:00 ~~A.M.~~ P.M. Time Pick Up Tool 1:00 ~~A.M.~~ P.M. Time Off Location 8:00 ~~A.M.~~ P.M.
Time Set Packer(s) 2:30 ~~A.M.~~ P.M. Time Started Off Bottom 5:15 ~~A.M.~~ P.M. Maximum Temperature 117°
Initial Hydrostatic Pressure _____ (A) 2056 P.S.I.
Initial Flow Period _____ Minutes 30 (B) 116 P.S.I. to (C) 137 P.S.I.
Initial Closed In Period _____ Minutes 45 (D) 1259 P.S.I.
Final Flow Period _____ Minutes 45 (E) 243 P.S.I. to (F) 275 P.S.I.
Final Closed In Period _____ Minutes 45 (G) 1175 P.S.I.
Final Hydrostatic Pressure _____ (H) 2035 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: David J. Goldak
Signature of Customer or his authorized representative

Western Representative Jim Wondra Thank You

FIELD INVOICE

Open Hole Test \$ 600.00
Misrun \$ _____
Straddle Test \$ _____
Jars \$ _____
Selective Zone \$ _____
Safety Joint \$ _____
Standby \$ _____
Evaluation \$ _____
Extra Packer \$ _____
Circ. Sub. \$ _____
Mud Sample \$ _____
Fluid Sampler \$ _____
Extra Charts \$ _____
Insurance \$ 50.00
Telecopier \$ _____
TOTAL \$ 650.00

WESTERN TESTING CO., INC.

Pressure Data

Date 9-1 Test Ticket No. 16392
 Recorder No. 2607 Capacity 4150 Location 3915 Ft.
 Clock No. Elevation Well Temperature 117 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud <u>2063</u> P.S.I.	Open Tool	<u>2:30 P</u> M	
B First Initial Flow Pressure <u>115</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure <u>140</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure <u>1264</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure <u>246</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
F Second Final Flow Pressure <u>269</u> P.S.I.			
G Final Closed-in Pressure <u>1182</u> P.S.I.			
H Final Hydrostatic Mud <u>2000</u> 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	115	0	140	0	246	0	269
P 2 5	115	3	436	5		3	600
P 3 10	115	6	789	10		6	829
P 4 15	117	9	954	15	246	9	927
P 5 20	120	12	1021	20	250	12	979
P 6 25	130	15	1067	25	253	15	1016
P 7 30	140	18	1102	30	256	18	1044
P 8 35		21	1132	35	261	21	1069
P 9 40		24	1160	40	265	24	1089
P10 45		27	1182	45	269	27	1109
P11 50		30	1205	50		30	1125
P12 55		33	1214	55		33	1137
P13 60		36	1225	60		36	1149
P14		39	1238	65		39	1165
P15		42	1252	70		42	1173
P16		45	1264	75		45	1182
P17		48		80		48	
P18		51		85		51	
P19		54		90		54	
P20		57				57	
		60				60	

Company Longhorn Energy Resources, Inc. Lease & Well No. #1 Lunt

Elevation - Formation Kansas City Effective Pay - Ft. Ticket No. 16393

Date 9/2/82 Sec. 18 Twp 28S Range 11W County Pratt State Kansas

Test Approved by David J. Goldak Western Representative Jim Wondra

Formation Test No. 3 Interval Tested from 3925 ft. to 3990 ft. Total Depth 3990 ft.

Packer Depth 3920 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth 3925 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3947 ft. Recorder Number 2607 Cap. 4150

Bottom Recorder Depth (Outside) 3950 ft. Recorder Number 3351 Cap. 4000

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

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

Mud Type Premix-Driscap Viscosity 47 Weight Pipe Length - I. D. - in.

Weight 9.3 Water Loss 19.2 cc. Drill Pipe Length - I. D. - in.

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

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

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

Main Hole Size - in. Tool Joint Size - in.

Blow: Strong blow throughout test.

Recovered 150 ft. of gas cut mud - few specks of oil

Recovered 250 ft. of salt water Chlorides 118,000 PPM

Recovered 180 ft. of gas in pipe

Recovered - ft. of -

Recovered - ft. of -

Remarks: -

Time Set Packer(s) 5:30 AM Time Started Off Bottom 8:30 AM Maximum Temperature 118

Initial Hydrostatic Pressure (A) 2055 P.S.I.

Initial Flow Period 30 Minutes (B) 110 P.S.I. to (C) 112 P.S.I.

Initial Closed In Period 63 Minutes (D) 1377 P.S.I.

Final Flow Period 30 Minutes (E) 184 P.S.I. to (F) 187 P.S.I.

Final Closed In Period 60 Minutes (G) 1343 P.S.I.

Final Hydrostatic Pressure (H) 2002 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 9/2/82 Test Ticket No. 16393
 Recorder No. 2607 Capacity 4150 Location 3947 Ft.
 Clock No. - Elevation - Well Temperature 118 °F

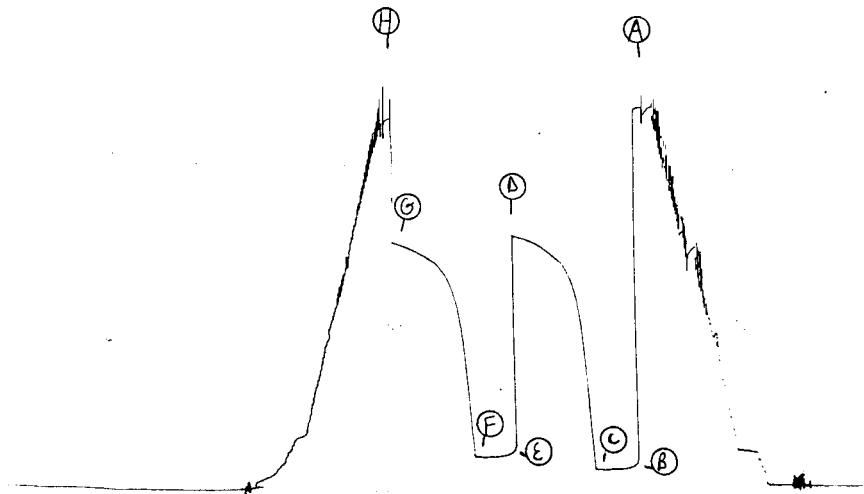
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2055 P.S.I.	Open Tool	5:30P	M
B First Initial Flow Pressure	110 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	112 P.S.I.	Initial Closed-in Pressure	60 Mins.	63 Mins.
D Initial Closed-in Pressure	1377 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E Second Initial Flow Pressure	184 P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F Second Final Flow Pressure	187 P.S.I.			
G Final Closed-in Pressure	1343 P.S.I.			
H Final Hydrostatic Mud	2002 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>21</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>20</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>0</u>	<u>110</u>	<u>0</u>	<u>112</u>	<u>0</u>	<u>184</u>	<u>0</u>	<u>187</u>
P 2 <u>5</u>	<u>110</u>	<u>3</u>	<u>254</u>	<u>5</u>	<u>184</u>	<u>3</u>	<u>439</u>
P 3 <u>10</u>	<u>110</u>	<u>6</u>	<u>533</u>	<u>10</u>	<u>184</u>	<u>6</u>	<u>662</u>
P 4 <u>15</u>	<u>110</u>	<u>9</u>	<u>768</u>	<u>15</u>	<u>184</u>	<u>9</u>	<u>839</u>
P 5 <u>20</u>	<u>110</u>	<u>12</u>	<u>933</u>	<u>20</u>	<u>184</u>	<u>12</u>	<u>954</u>
P 6 <u>25</u>	<u>110</u>	<u>15</u>	<u>1042</u>	<u>25</u>	<u>186</u>	<u>15</u>	<u>1040</u>
P 7 <u>30</u>	<u>112</u>	<u>18</u>	<u>1111</u>	<u>30</u>	<u>187</u>	<u>18</u>	<u>1105</u>
P 8		<u>21</u>	<u>1164</u>			<u>21</u>	<u>1150</u>
P 9		<u>24</u>	<u>1206</u>			<u>24</u>	<u>1184</u>
P10		<u>27</u>	<u>1234</u>			<u>27</u>	<u>1211</u>
P11		<u>30</u>	<u>1254</u>			<u>30</u>	<u>1233</u>
P12		<u>33</u>	<u>1273</u>			<u>33</u>	<u>1248</u>
P13		<u>36</u>	<u>1290</u>			<u>36</u>	<u>1262</u>
P14		<u>39</u>	<u>1305</u>			<u>39</u>	<u>1276</u>
P15		<u>42</u>	<u>1320</u>			<u>42</u>	<u>1286</u>
P16		<u>45</u>	<u>1334</u>			<u>45</u>	<u>1296</u>
P17		<u>48</u>	<u>1344</u>			<u>48</u>	<u>1306</u>
P18		<u>51</u>	<u>1353</u>			<u>51</u>	<u>1316</u>
P19		<u>54</u>	<u>1361</u>			<u>54</u>	<u>1326</u>
P20		<u>57</u>	<u>1368</u>			<u>57</u>	<u>1336</u>
		<u>60</u>	<u>1374</u>			<u>60</u>	<u>1343</u>
		<u>63</u>	<u>1377</u>				

TKT # 16393

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WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

No 16393

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

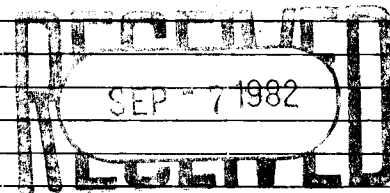
Elevation _____ Formation K.C Eff. Pay _____ Ft.

District Pratt Date 9/2/82 Customer Order No. -
COMPANY NAME Longhorn Exploration Energy Resources Inc
ADDRESS 70134 Dr. Blvd, Kc 67530
LEASE AND WELL NO. Lunt #1 COUNTY Pratt STATE Ks Sec. 18 Twp. 28 Rge. 11W
Mail Invoice To Same #1 LUNT No. Copies Requested 5
Eq. Name _____ Address _____
Mail Charts To Same No. Copies Requested 5
Address _____

Formation Test No. 3 Interval Tested From 3925 ft. to 3990 ft. Total Depth 3990 ft.
Packer Depth 3920 ft. Size 6 5/8 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 3925 ft. Size 6 5/8 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____
Top Recorder Depth (Inside) 3947 ft. Recorder Number 2607 Cap. 4150
Bottom Recorder Depth (Outside) 3950 ft. Recorder Number 3351 Cap. 4000
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____
Drilling Contractor Big H Rig #1 Drill Collar Length _____ I. D. _____ in.
Mud Type Premix-Onspear Viscosity 47 Weight Pipe Length _____ I. D. _____ in.
Weight 9.3 Water Loss 19.2 cc. Drill Pipe Length _____ I. D. _____ in.
Chlorides 22,000 P.P.M. Test Tool Length _____ ft. Tool Size _____ in.
Jars: Make _____ Serial Number _____ Anchor Length _____ ft. Size _____ in.
Did Well Flow? No Reversed Out No Surface Choke Size _____ in. Bottom Choke Size _____ in.
Main Hole Size _____ in. Tool Joint Size _____ in.

Blow: Strong blow throughout flow periods

Recovered 150 ft. of Gas Cut Mud (few specks of foil)
Recovered 250 ft. of Salt Water (118,000 p.p.m)
Recovered 180 ft. of Gas in Pipe
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Remarks: _____



Time On Location 3:00 ~~A.M.~~ P.M. Time Pick Up Tool 3:30 ~~A.M.~~ P.M. Time Off Location _____ A.M. P.M.
Time Set Packer(s) 5:30 ~~A.M.~~ P.M. Time Started Off Bottom 8:30 ~~A.M.~~ P.M. Maximum Temperature 118°
Initial Hydrostatic Pressure _____ (A) 2046 P.S.I.
Initial Flow Period _____ Minutes 30 (B) 116 P.S.I. to (C) 116 P.S.I.
Initial Closed In Period _____ Minutes 60 (D) 1374 P.S.I.
Final Flow Period _____ Minutes 30 (E) 179 P.S.I. to (F) 179 P.S.I.
Final Closed In Period _____ Minutes 60 (G) 1342 P.S.I.
Final Hydrostatic Pressure _____ (H) 2025 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 David J. Goldak
Signature of Customer or his authorized representative

Western Representative Jim Ward Thank You

FIELD INVOICE

Open Hole Test \$ 600.00
Misrun \$ _____
Straddle Test \$ _____
Jars \$ _____
Selective Zone \$ _____
Safety Joint \$ _____
Standby \$ _____
Evaluation \$ _____
Extra Packer \$ _____
Circ. Sub. \$ _____
Mileage \$ _____
Fluid Sampler \$ _____
Extra Charts \$ _____
Insurance \$ 50.00
Telecopier \$ _____
TOTAL \$ 650.00

WESTERN TESTING CO., INC.

Pressure Data

Date 9-2 Test Ticket No. 16393
 Recorder No. 2607 Capacity 4150 Location 3947 Ft.
 Clock No. --- Elevation --- Well Temperature 118 °F

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2055</u> P.S.I.		<u>5:30</u> P	
B First Initial Flow Pressure	<u>110</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>112</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>63</u> Mins.
D Initial Closed-in Pressure	<u>1377</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>184</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>187</u> P.S.I.			
G Final Closed-in Pressure	<u>1343</u> P.S.I.			
H Final Hydrostatic Mud	<u>2002</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>21</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>20</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	<u>110</u>	0	<u>112</u>	0	<u>184</u>	0	<u>187</u>
P 2 5	<u>/</u>	3	<u>254</u>	5	<u>/</u>	3	<u>439</u>
P 3 10	<u>/</u>	6	<u>533</u>	10	<u>/</u>	6	<u>662</u>
P 4 15	<u>/</u>	9	<u>768</u>	15	<u>/</u>	9	<u>839</u>
P 5 20	<u>/</u>	12	<u>933</u>	20	<u>184</u>	12	<u>954</u>
P 6 25	<u>110</u>	15	<u>1042</u>	25	<u>186</u>	15	<u>1040</u>
P 7 30	<u>112</u>	18	<u>1111</u>	30	<u>187</u>	18	<u>1105</u>
P 8 35		21	<u>1164</u>	35		21	<u>1150</u>
P 9 40		24	<u>1206</u>	40		24	<u>1184</u>
P10 45		27	<u>1234</u>	45		27	<u>1211</u>
P11 50		30	<u>1254</u>	50		30	<u>1233</u>
P12 55		33	<u>1273</u>	55		33	<u>1248</u>
P13 60		36	<u>1290</u>	60		36	<u>1262</u>
P14		39	<u>1305</u>	65		39	<u>1276</u>
P15		42	<u>1320</u>	70		42	<u>1286</u>
P16		45	<u>1334</u>	75		45	<u>1296</u>
P17		48	<u>1344</u>	80		48	<u>1306</u>
P18		51	<u>1353</u>	85		51	<u>1316</u>
P19		54	<u>1361</u>	90		54	<u>1326</u>
P20		57	<u>1368</u>			57	<u>1336</u>
		60	<u>1374</u>			60	<u>1343</u>

Company Longhorn Energy Resources, Inc. Lease & Well No. #1 Lunt
Elevation - Formation Kansas City Effective Pay - Ft. Ticket No. 16394
Date 9/3/82 Sec. 18 Twp 28S Range 11W County Pratt State Kansas
Test Approved by David J Goldak Western Representative Jim Wondra
Formation Test No. 4 Interval Tested from 3735 ft. to 3760 ft. Total Depth 3990 ft.
Packer Depth 3735 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
Packer Depth 3760 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 3748 ft. Recorder Number 2607 Cap. 4150
Bottom Recorder Depth (Outside) 3751 ft. Recorder Number 3351 Cap. 4000
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Big H Rig #1 Drill Collar Length 240 I. D. 2 1/4 in.
Mud Type Premix-Driscap Viscosity 47 Weight Pipe Length - I. D. - in.
Weight 9.3 Water Loss 19.2 cc. Drill Pipe Length 3480 I. D. 3.8 in.
Chlorides 22,000 P.P.M. Test Tool Length 40 ft. Tool Size 5 1/2 OD in.
Jars: Make - Serial Number - Tail pipe Anchor Length 230 25 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 test.

Recovered 130 ft. of watery mud
Recovered 120 ft. of salt water Chlorides 117,000 PPM

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 1:00 A.M. Time Started Off Bottom 5:30 P.M. Maximum Temperature 116
Initial Hydrostatic Pressure 1926 P.S.I. (A)
Initial Flow Period 45 Minutes (B) 78 P.S.I. to (C) 87 P.S.I.
Initial Closed In Period 87 Minutes (D) 1269 P.S.I.
Final Flow Period 45 Minutes (E) 154 P.S.I. to (F) 154 P.S.I.
Final Closed In Period 90 Minutes (G) 1242 P.S.I.
Final Hydrostatic Pressure 1832 P.S.I. (H)

WESTERN TESTING CO., INC.

Pressure Data

Date 9/3/82 Test Ticket No. 16394
 Recorder No. 2607 Capacity 4150 Location 3748 Ft.
 Clock No. - Elevation - Well Temperature 116 °F

Point	Pressure	Open Tool	Time	
			Given	Computed
A Initial Hydrostatic Mud	<u>1926</u> P.S.I.		1:00A	M
B First Initial Flow Pressure	<u>78</u> P.S.I.	First Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
C First Final Flow Pressure	<u>87</u> P.S.I.	Initial Closed-in Pressure	<u>90</u> Mins.	<u>87</u> Mins.
D Initial Closed-in Pressure	<u>1269</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>154</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>90</u> Mins.
F Second Final Flow Pressure	<u>154</u> P.S.I.			
G Final Closed-in Pressure	<u>1242</u> P.S.I.			
H Final Hydrostatic Mud	<u>1832</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>9</u> Inc.		Breakdown: <u>29</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>30</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>0</u>	<u>78</u>	<u>0</u>	<u>87</u>	<u>0</u>	<u>154</u>	<u>0</u>	<u>154</u>
P 2 <u>5</u>	<u>78</u>	<u>3</u>	<u>419</u>	<u>5</u>	<u>154</u>	<u>3</u>	<u>439</u>
P 3 <u>10</u>	<u>78</u>	<u>6</u>	<u>570</u>	<u>10</u>	<u>154</u>	<u>6</u>	<u>591</u>
P 4 <u>15</u>	<u>78</u>	<u>9</u>	<u>673</u>	<u>15</u>	<u>154</u>	<u>9</u>	<u>691</u>
P 5 <u>20</u>	<u>78</u>	<u>12</u>	<u>760</u>	<u>20</u>	<u>154</u>	<u>12</u>	<u>775</u>
P 6 <u>25</u>	<u>79</u>	<u>15</u>	<u>830</u>	<u>25</u>	<u>154</u>	<u>15</u>	<u>835</u>
P 7 <u>30</u>	<u>81</u>	<u>18</u>	<u>890</u>	<u>30</u>	<u>154</u>	<u>18</u>	<u>887</u>
P 8 <u>35</u>	<u>83</u>	<u>21</u>	<u>945</u>	<u>35</u>	<u>154</u>	<u>21</u>	<u>933</u>
P 9 <u>40</u>	<u>85</u>	<u>24</u>	<u>979</u>	<u>40</u>	<u>154</u>	<u>24</u>	<u>971</u>
P10 <u>45</u>	<u>87</u>	<u>27</u>	<u>1027</u>	<u>45</u>	<u>154</u>	<u>27</u>	<u>1003</u>
P11		<u>30</u>	<u>1061</u>			<u>30</u>	<u>1032</u>
P12		<u>33</u>	<u>1087</u>			<u>33</u>	<u>1061</u>
P13		<u>36</u>	<u>1105</u>			<u>36</u>	<u>1083</u>
P14		<u>39</u>	<u>1122</u>			<u>39</u>	<u>1097</u>
P15		<u>42</u>	<u>1140</u>			<u>42</u>	<u>1110</u>
P16		<u>45</u>	<u>1157</u>			<u>45</u>	<u>1122</u>
P17		<u>48</u>	<u>1170</u>			<u>48</u>	<u>1136</u>
P18		<u>51</u>	<u>1185</u>			<u>51</u>	<u>1150</u>
P19		<u>54</u>	<u>1195</u>			<u>54</u>	<u>1164</u>
P20		<u>57</u>	<u>1205</u>			<u>57</u>	<u>1173</u>
		<u>60</u>	<u>1215</u>			<u>60</u>	<u>1182</u>

WESTERN TESTING CO., INC.

Pressure Data

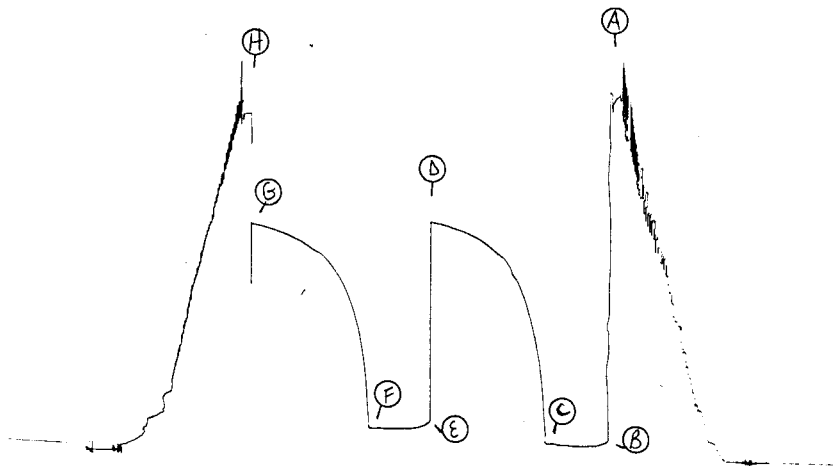
Date 9/3/82 Test Ticket No. 16394
 Recorder No. 2607 Capacity 4150 Location 3748 Ft.
 Clock No. - Elevation - Well Temperature 116 °F

Point	Pressure			Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1926</u>	P.S.I.	Open Tool	<u>1:00A</u>	<u>M</u>
B First Initial Flow Pressure	<u>78</u>	P.S.I.	First Flow Pressure	<u>45</u>	Mins. <u>45</u> Mins.
C First Final Flow Pressure	<u>87</u>	P.S.I.	Initial Closed-in Pressure	<u>90</u>	Mins. <u>87</u> Mins.
D Initial Closed-in Pressure	<u>1269</u>	P.S.I.	Second Flow Pressure	<u>45</u>	Mins. <u>45</u> Mins.
E Second Initial Flow Pressure	<u>154</u>	P.S.I.	Final Closed-in Pressure	<u>90</u>	Mins. <u>90</u> Mins.
F Second Final Flow Pressure	<u>154</u>	P.S.I.			
G Final Closed-in Pressure	<u>1242</u>	P.S.I.			
H Final Hydrostatic Mud	<u>1832</u>	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>9</u> Inc.		Breakdown: <u>29</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>30</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	<u>1225</u>			63	<u>1190</u>
P 2		66	<u>1231</u>			66	<u>1198</u>
P 3		69	<u>1237</u>			69	<u>1206</u>
P 4		72	<u>1243</u>			72	<u>1214</u>
P 5		75	<u>1249</u>			75	<u>1222</u>
P 6		78	<u>1254</u>			78	<u>1226</u>
P 7		81	<u>1259</u>			81	<u>1230</u>
P 8		84	<u>1264</u>			84	<u>1234</u>
P 9		87	<u>1269</u>			87	<u>1238</u>
P10						90	<u>1242</u>
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

TKT # 16394
I





WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

No. 16394

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

Elevation

Formation

Eff. Pay - Ft.

District Pratt Date 9/3/82 Customer Order No. -
COMPANY NAME Longhorn Exploration Energy Resources Inc.
ADDRESS PO Box 1314 Sp. Bend, KS 67530
LEASE AND WELL NO. Lunt #1 COUNTY Pratt STATE KS Sec. 18 Twp. 28 Rge. 11W
Mail Invoice To Same #1 LUNT No. Copies Requested 5
Co. Name Same Address - No. Copies Requested 5
Mail Charts To Same Address -

Formation Test No. 4 Interval Tested From 3735 ft. to 3760 ft. Total Depth 3990 ft.
Packer Depth 3735 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
Packer Depth 3760 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3748 ft.
Bottom Recorder Depth (Outside) 3751 ft.
Below Straddle Recorder Depth - ft.
Drilling Contractor Big H Rig #1
Mud Type Premix-Orispac Viscosity 47
Weight 9.3 Water Loss 19.2 cc.
Chlorides 22,000 P.P.M.
Jars: Make No Serial Number -
Did Well Flow? No Reversed Out No

Recorder Number 2607 Cap. 4150
Recorder Number 3357 Cap. 4000
Recorder Number - Cap. -
Drill Collar Length 240 I. D. 2 1/4 in.
Weight Pipe Length - I. D. - in.
Drill Pipe Length 3480 I. D. 3.8 in.
Test Tool Length 40 ft. Tool Size 5 1/2 OD in.
Anchor Length 23025-230 in. Size 5 1/2 OD in.
Surface Choke Size 3 1/4 in. Bottom Choke Size 3 1/4 in.
Main Hole Size 7 1/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Weak blow throughout flow periods

Recovered 130 ft. of Watery Mud
Recovered 120 ft. of Salt Water (117,000 p.p.m.)
Recovered - ft. of -
Recovered - ft. of -
Recovered - ft. of -
Remarks: -

RECEIVED
SEP - 7 1982

RECEIVED
SEP - 6 1982

Time On Location On Loc A.M. P.M. Time Pick Up Tool 11:30 A.M. P.M. Time Off Location 8:00 A.M. P.M.
Time Set Packer(s) 1:00 A.M. P.M. Time Started Off Bottom 5:30 A.M. P.M. Maximum Temperature 116°
Initial Hydrostatic Pressure 1930 P.S.I.
Initial Flow Period 45 Minutes (B) 73 P.S.I. to (C) 84 P.S.I.
Initial Closed In Period 90 Minutes (D) 1259 P.S.I.
Final Flow Period 45 Minutes (E) 148 P.S.I. to (F) 148 P.S.I.
Final Closed In Period 90 Minutes (G) 1238 P.S.I.
Final Hydrostatic Pressure 1909 P.S.I. (H)

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

Signature of Customer or his authorized representative

Western Representative

FIELD INVOICE

Open Hole Test \$ 600.00
Misrun \$ -
Straddle Test \$ 300.00
Jars \$ -
Selective Zone \$ -
Safety Joint \$ -
Standby \$ -
Evaluation \$ -
Extra Packer \$ -
Circ. Sub. \$ -
Mileage \$ -
Fluid Sampler \$ -
Extra Charts \$ -
Insurance \$ 50.00
Telecopier \$ -
TOTAL \$ 950.00

WESTERN TESTING CO., INC.

Pressure Data

Date 9-3 Recorder No. 2607 Capacity 4150 Test Ticket No. 16394 Location 3748 Ft.
Clock No. Elevation Well Temperature 116 °F

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1926</u> P.S.I.		<u>1:00 A</u> M	
B First Initial Flow Pressure	<u>78</u> P.S.I.	First Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
C First Final Flow Pressure	<u>87</u> P.S.I.	Initial Closed-in Pressure	<u>90</u> Mins.	<u>87</u> Mins.
D Initial Closed-in Pressure	<u>1269</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>154</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>90</u> Mins.
F Second Final Flow Pressure	<u>154</u> P.S.I.			
G Final Closed-in Pressure	<u>1242</u> P.S.I.			
H Final Hydrostatic Mud	<u>1832</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>9</u> Inc.		Breakdown: <u>29</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>30</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>0</u>	<u>78</u>	<u>0</u>	<u>87</u>	<u>0</u>	<u>154</u>	<u>0</u>	<u>154</u>
P 2 <u>5</u>	<u>/</u>	<u>3</u>	<u>419</u>	<u>5</u>	<u>/</u>	<u>3</u>	<u>439</u>
P 3 <u>10</u>	<u>/</u>	<u>6</u>	<u>570</u>	<u>10</u>	<u>/</u>	<u>6</u>	<u>591</u>
P 4 <u>15</u>	<u>/</u>	<u>9</u>	<u>673</u>	<u>15</u>	<u>/</u>	<u>9</u>	<u>691</u>
P 5 <u>20</u>	<u>78</u>	<u>12</u>	<u>760</u>	<u>20</u>	<u>/</u>	<u>12</u>	<u>775</u>
P 6 <u>25</u>	<u>79</u>	<u>15</u>	<u>830</u>	<u>25</u>	<u>/</u>	<u>15</u>	<u>835</u>
P 7 <u>30</u>	<u>81</u>	<u>18</u>	<u>890</u>	<u>30</u>	<u>/</u>	<u>18</u>	<u>887</u>
P 8 <u>35</u>	<u>83</u>	<u>21</u>	<u>945</u>	<u>35</u>	<u>/</u>	<u>21</u>	<u>933</u>
P 9 <u>40</u>	<u>85</u>	<u>24</u>	<u>979</u>	<u>40</u>	<u>/</u>	<u>24</u>	<u>971</u>
P10 <u>45</u>	<u>87</u>	<u>27</u>	<u>1027</u>	<u>45</u>	<u>154</u>	<u>27</u>	<u>1003</u>
P11 <u>50</u>	<u>/</u>	<u>30</u>	<u>1061</u>	<u>50</u>	<u>/</u>	<u>30</u>	<u>1032</u>
P12 <u>55</u>	<u>/</u>	<u>33</u>	<u>1087</u>	<u>55</u>	<u>/</u>	<u>33</u>	<u>1061</u>
P13 <u>60</u>	<u>/</u>	<u>36</u>	<u>1105</u>	<u>60</u>	<u>/</u>	<u>36</u>	<u>1083</u>
P14 <u>/</u>	<u>/</u>	<u>39</u>	<u>1122</u>	<u>65</u>	<u>/</u>	<u>39</u>	<u>1097</u>
P15 <u>/</u>	<u>/</u>	<u>42</u>	<u>1140</u>	<u>70</u>	<u>/</u>	<u>42</u>	<u>1110</u>
P16 <u>/</u>	<u>/</u>	<u>45</u>	<u>1157</u>	<u>75</u>	<u>/</u>	<u>45</u>	<u>1122</u>
P17 <u>/</u>	<u>/</u>	<u>48</u>	<u>1170</u>	<u>80</u>	<u>/</u>	<u>48</u>	<u>1136</u>
P18 <u>/</u>	<u>/</u>	<u>51</u>	<u>1185</u>	<u>85</u>	<u>/</u>	<u>51</u>	<u>1150</u>
P19 <u>/</u>	<u>/</u>	<u>54</u>	<u>1195</u>	<u>90</u>	<u>/</u>	<u>54</u>	<u>1164</u>
P20 <u>/</u>	<u>/</u>	<u>57</u>	<u>1205</u>	<u>/</u>	<u>/</u>	<u>57</u>	<u>1173</u>
		<u>60</u>	<u>1215</u>	<u>/</u>	<u>/</u>	<u>60</u>	<u>1182</u>

WESTERN TESTING CO., INC.

Pressure Data

Date _____

Test Ticket No. 16394

Recorder No. _____ Capacity _____ Location _____ Ft.

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud _____	P.S.I.	_____	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

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ 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	<u>1225</u>	_____	_____	63	<u>1190</u>
P 2 _____	_____	66	<u>1231</u>	_____	_____	66	<u>1198</u>
P 3 _____	_____	69	<u>1237</u>	_____	_____	69	<u>1206</u>
P 4 _____	_____	72	<u>1243</u>	_____	_____	72	<u>1214</u>
P 5 _____	_____	75	<u>1249</u>	_____	_____	75	<u>1222</u>
P 6 _____	_____	78	<u>1254</u>	_____	_____	78	<u>1226</u>
P 7 _____	_____	81	<u>1258</u>	_____	_____	81	<u>1230</u>
P 8 _____	_____	84	<u>1264</u>	_____	_____	84	<u>1234</u>
P 9 _____	_____	87	<u>1269</u>	_____	_____	87	<u>1238</u>
P10 _____	_____	90	_____	_____	_____	90	<u>1242</u>
P11 _____	_____	93	_____	_____	_____	93	_____
P12 _____	_____	96	_____	_____	_____	96	_____
P13 _____	_____	99	_____	_____	_____	99	_____
P14 _____	_____	102	_____	_____	_____	102	_____
P15 _____	_____	105	_____	_____	_____	105	_____
P16 _____	_____	108	_____	_____	_____	108	_____
P17 _____	_____	111	_____	_____	_____	111	_____
P18 _____	_____	114	_____	_____	_____	114	_____
P19 _____	_____	117	_____	_____	_____	117	_____
P20 _____	_____	120	_____	_____	_____	120	_____