Company Longhorn Energy Resources, Inc. Lease & Well No. #3 Brass

Elevation ---- Formation Mississippi Effective Pay --- Ft. Ticket No. 16428

Date 9/ 23 /82 Sec. 30 Twp. 32S Range 15W County Barber State Kansas

Test Approved by Kurt Harlow (?) Western Representative Jeff Piotrowski

Formation Test No. 1 Interval Tested from 4685 ft. to 4740 ft. Total Depth 4740 ft.

Packer Depth 4680 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4685 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4688 ft. Recorder Number 1565 Cap. 4900

Bottom Recorder Depth (Outside) 4691 ft. Recorder Number 1560 Cap. 4500

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

Drilling Contractor Big "A" Drlg. Rig #1 Drill Collar Length 330 I. D. 2.2 in.

Mud Type drispac Viscosity 54 Weight Pipe Length - I. D. - in.

Weight 9.3 Water Loss 12.4 cc. Drill Pipe Length 4335 I. D. 3.8 in.

Chlorides 9,000 P.P.M. Test Tool Length 20 ft. Tool Size 5½OD in.

Jars: Make - Serial Number - Anchor Length 55 ft. Size 5½OD 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 4½XH in.

Blow: Weak slowly building to strong on initial flow. Strong throughout final flow period.

Recovered 900 ft. of gas in pipe

Recovered 30 ft. of gas cut mud

Recovered ____ ft. of

Recovered ____ ft. of

Recovered ____ ft. of

Remarks:

Time Set Packer(s) 9:05 ~~A.M.~~ P.M. Time Started Off Bottom 1:50 A.M. ~~P.M.~~ Maximum Temperature 122°

Initial Hydrostatic Pressure			(A) 2261	P.S.I.		
Initial Flow Period	Minutes 30	(B) 16	P.S.I. to	(C) 16	P.S.I.	
Initial Closed In Period	Minutes 45	(D) 422	P.S.I.			
Final Flow Period	Minutes 120	(E) 11	P.S.I. to	(F) 12	P.S.I.	
Final Closed In Period	Minutes 90	(G) 781	P.S.I.			
Final Hydrostatic Pressure			(H) 2261	P.S.I.		

WTC

WESTERN TESTING CO., INC.
Pressure Data

Date 9/23/82 Test Ticket No. 16428

Recorder No. 1565 Capacity 4900 Location 4688 Ft.

Clock No. -- Elevation --- -- Well Temperature 122 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2261 P.S.I.	Open Tool		9:05 P M	
B	First Initial Flow Pressure	16 P.S.I.	First Flow Pressure		30 Mins.	30 Mins.
C	First Final Flow Pressure	16 P.S.I.	Initial Closed-in Pressure		45 Mins.	45 Mins.
D	Initial Closed-in Pressure	422 P.S.I.	Second Flow Pressure		120 Mins.	120 Mins.
E	Second Initial Flow Pressure	11 P.S.I.	Final Closed-in Pressure		90 Mins.	90 Mins.
F	Second Final Flow Pressure	12 P.S.I.				
G	Final Closed-in Pressure	781 P.S.I.				
H	Final Hydrostatic Mud	2261 P.S.I.				

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1 0	16
P 2 5	16
P 3 10	16
P 4 15	16
P 5 20	16
P 6 25	16
P 7 30	16
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 15 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	16
3	27
6	53
9	82
12	111
15	143
18	172
21	204
24	234
27	266
30	295
33	323
36	353
39	380
42	411
45	422

Second Flow Pressure
Breakdown: 24 Inc. of 5 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	11
5	11
10	11
15	11
20	11
25	11
30	11
35	11
40	11
45	11
50	11
55	11
60	11
65	11
70	11
75	12
80	12
85	12
90	12
95	12
100	12

CONTINUED

Final Shut-In
Breakdown: 30 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	12
3	20
6	49
9	79
12	110
15	143
18	172
21	207
24	240
27	265
30	290
33	321
36	349
39	378
42	400
45	432
48	462
51	485
54	512
57	539
60	563

CONTINUED

WESTERN TESTING CO., INC.
Pressure Data

Date 9/23/82 Test Ticket No. 16428

Recorder No. 1565 Capacity 4900 Location 4688 Ft.

Clock No. -- Elevation --- -- Well Temperature 122 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2261 P.S.I.		Open Tool	9:05 P M	
B	First Initial Flow Pressure	16 P.S.I.		First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	16 P.S.I.		Initial Closed-in Pressure	45 Mins.	45 Mins.
D	Initial Closed-in Pressure	422 P.S.I.		Second Flow Pressure	120 Mins.	120 Mins.
E	Second Initial Flow Pressure	11 P.S.I.		Final Closed-in Pressure	90 Mins.	90 Mins.
F	Second Final Flow Pressure	12 P.S.I.				
G	Final Closed-in Pressure	781 P.S.I.				
H	Final Hydrostatic Mud	2261 P.S.I.				

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1	
P 2	
P 3	
P 4	
P 5	
P 6	
P 7	
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 15 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.

Second Flow Pressure
Breakdown: 24 Inc. of 5 mins. and a final inc. of 0 Min.

Point Minutes	Press.
105	12
110	12
115	12
120	12

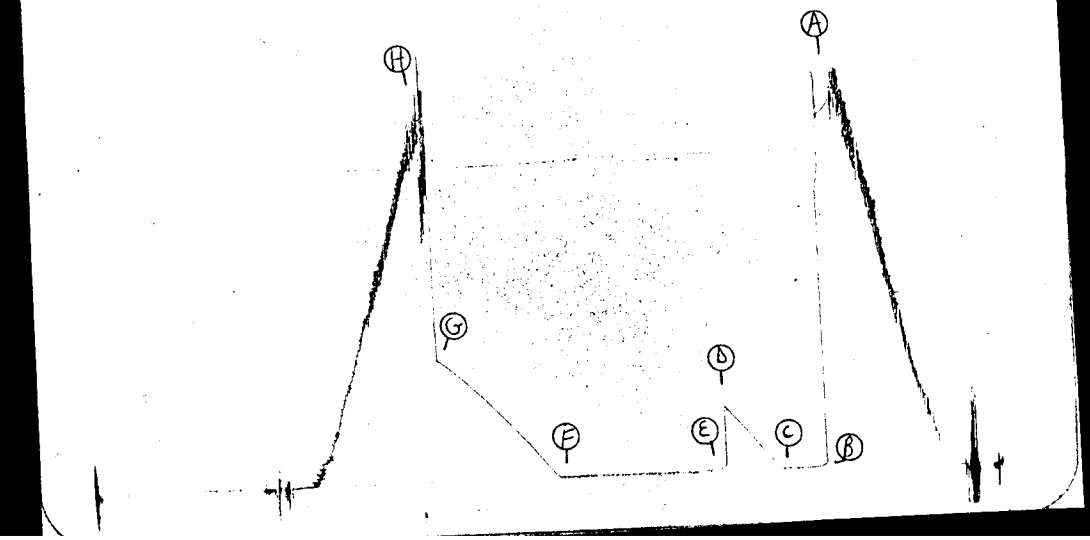
Final Shut-In
Breakdown: 30 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
63	591
66	616
69	639
72	663
75	686
78	709
81	728
84	748
87	768
90	781

1565
DST #1

IKT # 16428

I



WESTERN TESTING CO., INC.
FORMATION TESTING

OK

TICKET Nº 16428

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

Elevation _____ Formation Miss. Eff. Pay _____ Ft.

District Pratt Date 9/23/82 Customer Order No. _____

COMPANY NAME Longhorn Energy Resources, Inc.

ADDRESS P.O. Box 1314, Great Bend KS 67530

LEASE AND WELL NO. Brass #3 COUNTY Barber STATE KS Sec. 30 Twp. 32s Rge. 15w

Mail Invoice To Same #3 BRASS No. Copies Requested Reg
Co. Name Address

Mail Charts To Same No. Copies Requested Reg
Address

Formation Test No. 1 Interval Tested From 4685 ft. to 4740 ft. Total Depth 4740 ft.

Packer Depth 4680 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 4685 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4688 ft. Recorder Number 1565 Cap. 4500

Bottom Recorder Depth (Outside) 4691 ft. Recorder Number 1560 Cap. 4500

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

Drilling Contractor Big "A" #1 Drill Collar Length 330 I. D. 2.2 in.

Mud Type Dispers Viscosity 54 Weight Pipe Length — I. D. — in.

Weight 9.3 Water Loss 12.4 cc. Drill Pipe Length 4335 I. D. 3.8 in.

Chlorides 9,000 P.P.M. Test Tool Length 20 ft. Tool Size 5½ OD in.

Jars: Make — Serial Number — Anchor Length 55 ft. Size 5½ 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 4½ XH in.

Blow: Weak Slowly Building To Strong I.F. - Strong Thru F.F.

Recovered 900 ft. of Gas In Pipe

Recovered 30 ft. of Gas Cut Mud

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: _____

RECEIVED
SEP 28 1982
KCC WICHITA

Time On Location 6:00 A.M. (P.M.) Time Pick Up Tool 7:30 A.M. (P.M.) Time Off Location 4:30 A.M. (P.M.)

Time Set Packer(s) 9:05 A.M. (P.M.) Time Started Off Bottom 1:50 A.M. (P.M.) Maximum Temperature 122°

Initial Hydrostatic Pressure			(A) 2258	P.S.I.	
Initial Flow Period	Minutes 30		(B) 12	P.S.I. to (C) 12	P.S.I.
Initial Closed In Period	Minutes 45		(D) 408	P.S.I.	
Final Flow Period	Minutes 120		(E) 12	P.S.I. to (F) 12	P.S.I.
Final Closed In Period	Minutes 90		(G) 729	P.S.I.	
Final Hydrostatic Pressure			(H) 2258	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 Kurt Harlow? Kurt Harlow
Signature of Customer or his authorized representative

Western Representative _____

FIELD INVOICE

Open Hole Test	$ 675.00
Misrun	$
Straddle Test	$
Jars	$
Selective Zone	$
Safety Joint	$
Standby	$
Evaluation	$
Extra Packer	$
Circ. Sub.	$
Mileage	$
Fluid Sampler	$

WESTERN TESTING CO., INC.

Pressure Data

Date 9-23 Test Ticket No. 16428

Recorder No. 1565 Capacity 4900 Location 4688 Ft.

Clock No. — — — — Elevation ____ Well Temperature 122 °F

Point		Pressure		Time Given	Time Computed
A	Initial Hydrostatic Mud	2261	P.S.I.	Open Tool 9:05 PM	
B	First Initial Flow Pressure	16	P.S.I.	First Flow Pressure 30 Mins.	30 Mins.
C	First Final Flow Pressure	16	P.S.I.	Initial Closed-in Pressure 45 Mins.	45 Mins.
D	Initial Closed-in Pressure	422	P.S.I.	Second Flow Pressure 120 Mins.	120 Mins.
E	Second Initial Flow Pressure	11	P.S.I.	Final Closed-in Pressure 90 Mins.	90 Mins.
F	Second Final Flow Pressure	12	P.S.I.		
G	Final Closed-in Pressure	781	P.S.I.		
H	Final Hydrostatic Mud	2261	P.S.I.		

PRESSURE BREAKDOWN

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

Point Mins.		Press.
P 1	0	16
P 2	5	
P 3	10	
P 4	15	
P 5	20	
P 6	25	
P 7	30	16
P 8	35	
P 9	40	
P10	45	
P11	50	
P12	55	
P13	60	
P14		
P15		
P16		
P17		
P18		
P19		
P20		

Initial Shut-In
Breakdown: 15 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	16
3	27
6	53
9	82
12	111
15	143
18	173
21	204
24	234
27	266
30	295
33	323
36	353
39	380
42	411
45	422
48	
51	
54	
57	
60	

Second Flow Pressure
Breakdown: 24 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	11
5	
10	
15	
20	
25	
30	
35	
40	
45	
50	
55	
60	
65	
70	11
75	12
80	12
85	12
90	182
95	12
100	12

Final Shut-In
Breakdown: 30 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	12
3	20
6	49
9	79
12	110
15	143
18	175
21	207
24	240
27	265
30	290
33	321
36	349
39	378
42	400
45	432
48	462
51	485
54	512
57	539
60	563

WTC - 4

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	12	63	591
P 2 _____	_____	66	_____	110	6	66	616
P 3 _____	_____	69	_____	115	5	69	639
P 4 _____	_____	72	_____	120	12	72	663
P 5 _____	_____	75	_____	_____	_____	75	686
P 6 _____	_____	78	_____	_____	_____	78	709
P 7 _____	_____	81	_____	_____	_____	81	728
P 8 _____	_____	84	_____	_____	_____	84	748
P 9 _____	_____	87	_____	_____	_____	87	768
P10 _____	_____	90	_____	_____	_____	90	781
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. #3 Brass

Elevation ---- Formation Mississippi Effective Pay --- Ft. Ticket No. 16429

Date 9/ 24 /82 Sec. 30 Twp. 32S Range 15W County Barber State Kansas

Test Approved by David J. Goldah Western Representative Jeff Piotrowski

Formation Test No. 2 Interval Tested from 4684 ft. to 4754 ft. Total Depth 4754 ft.

Packer Depth 4679 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4685 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4694 ft. Recorder Number 1565 Cap. 4900

Bottom Recorder Depth (Outside) 4697 ft. Recorder Number 1560 Cap. 4500

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

Drilling Contractor Big "A" Drlg. Rig #1 Drill Collar Length 330 I. D. 2.2 in.

Mud Type drispac Viscosity 65 Weight Pipe Length - I. D. - in.

Weight 9.4 Water Loss 11.4 cc. Drill Pipe Length 4334 I. D. 3.8 in.

Chlorides 14,000 P.P.M. Test Tool Length 20 ft. Tool Size 5½OD in.

Jars: Make - Serial Number - Anchor Length 70 ft. Size 5½OD

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 4½XH in.

Blow: Strong through initial flow period. Gas to surface twelve minutes on final flow; see attached sheet for gas measurements.

Recovered 60 ft. of slightly oil cut mud

Recovered 120 ft. of very heavy oil cut froggy mud

Recovered 300 ft. of slightly mud cut froggy oil

Recovered ____ ft. of

Recovered ____ ft. of

Remarks:

Time Set Packer(s) 2:00 ~~A.M.~~ P.M. Time Started Off Bottom 6:45 ~~A.M.~~ P.M. Maximum Temperature 122°

Initial Hydrostatic Pressure			(A)	2379	P.S.I.	
Initial Flow Period	Minutes	30	(B)	84	P.S.I. to (C)	118 P.S.I.
Initial Closed In Period	Minutes	42	(D)	1674	P.S.I.	
Final Flow Period	Minutes	120	(E)	129	P.S.I. to (F)	233 P.S.I.
Final Closed In Period	Minutes	90	(G)	1648	P.S.I.	
Final Hydrostatic Pressure			(H)	2379	P.S.I.	

WT

GAS FLOW REPORT

Date 9/24/82 Ticket 16429 Company Longhorn Energy Resources, Inc.

Well Name and No. #3 Brass Dst No. 2 Interval Tested 4684'-4754'

County Barber State Kansas Sec. 30 Twp. 32S Rg. 15W

Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	Size of Orifice	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester		Description of Flow
PRE FLOW						
Gas to surface in twelve minutes. **SECOND FLOW**						
10 min.	17" of water		1/4" orifice			6,930 CFPD
20 min.	26" of water		1/4" orifice			8,560 CFPD
30 min.	28" of water		1/4" orifice			8,890 CFPD
40 min.	30" of water		1/4" orifice			9,200 CFPD
50 min.	30" of water		1/4" orifice			9,200 CFPD
60 min.	2" of water		1/2" orifice			8,870 CFPD
70 min.	2" of water		1/2" orifice			8,870 CFPD
80 min.	2" of water		1/2" orifice			8,870 CFPD
90 min.	2" of water		1/2" orifice			8,870 CFPD
100 min.	2" of water		1/2" orifice			8,870 CFPD
110 min.	2" of water		1/2" orifice			8,870 CFPD

GAS BOTTLE

Serial No. ---- Date Bottle Filled --- Date to be Invoiced 9/24/82

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 1½% per month, equal to 18% 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 Longhorn Energy Resources, Inc.

Authorized by David J. Goldah

FORM WTC 6

WESTERN TESTING CO., INC.
Pressure Data

Date 9/24/82 Test Ticket No. 16429

Recorder No. 1565 Capacity 4900 Location 4694 Ft.

Clock No. -- Elevation --- Well Temperature 122 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2379 P.S.I.		Open Tool	2:00P M	
B	First Initial Flow Pressure	84 P.S.I.		First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	118 P.S.I.		Initial Closed-in Pressure	45 Mins.	42 Mins.
D	Initial Closed-in Pressure	1674 P.S.I.		Second Flow Pressure	120 Mins.	120 Mins.
E	Second Initial Flow Pressure	129 P.S.I.		Final Closed-in Pressure	90 Mins.	90 Mins.
F	Second Final Flow Pressure	233 P.S.I.				
G	Final Closed-in Pressure	1648 P.S.I.				
H	Final Hydrostatic Mud	2379 P.S.I.				

PRESSURE BREAKDOWN

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

Point	Mins.	Press.
P 1	0	84
P 2	5	86
P 3	10	92
P 4	15	103
P 5	20	109
P 6	25	115
P 7	30	118
P 8		
P 9		
P10		
P11		
P12		
P13		
P14		
P15		
P16		
P17		
P18		
P19		
P20		

Initial Shut-In
Breakdown: 14 Inc. of 3 mins. and a final inc. of 0 Min.

Point	Minutes	Press.
	0	118
	3	473
	6	703
	9	988
	12	1278
	15	1436
	18	1519
	21	1570
	24	1598
	27	1621
	30	1637
	33	1650
	36	1659
	39	1667
	42	1674

Second Flow Pressure
Breakdown: 24 Inc. of 5 mins. and a final inc. of 0 Min.

Point	Minutes	Press.
	0	129
	5	129
	10	129
	15	131
	20	136
	25	143
	30	148
	35	153
	40	157
	45	161
	50	165
	55	170
	60	176
	65	182
	70	187
	75	192
	80	199
	85	207
	90	214
	95	220
	100	227

CONTINUED

Final Shut-In
Breakdown: 30 Inc. of 3 mins. and a final inc. of 0 Min.

Point	Minutes	Press.
	0	233
	3	364
	6	510
	9	691
	12	938
	15	1158
	18	1283
	21	1372
	24	1434
	27	1478
	30	1506
	33	1531
	36	1548
	39	1561
	42	1573
	45	1583
	48	1591
	51	1598
	54	1605
	57	1612
	60	1618

CONTINUED

WESTERN TESTING CO., INC.
Pressure Data

Date 9/24/82 Test Ticket No. 16429

Recorder No. 1565 Capacity 4900 Location 4694 Ft.

Clock No. -- Elevation --- Well Temperature 122 °F

Point		Pressure	
A	Initial Hydrostatic Mud	2379	P.S.I.
B	First Initial Flow Pressure	84	P.S.I.
C	First Final Flow Pressure	118	P.S.I.
D	Initial Closed-in Pressure	1674	P.S.I.
E	Second Initial Flow Pressure	129	P.S.I.
F	Second Final Flow Pressure	233	P.S.I.
G	Final Closed-in Pressure	1648	P.S.I.
H	Final Hydrostatic Mud	2379	P.S.I.

	Time Given	Time Computed
Open Tool	2:00P M	
First Flow Pressure	30 Mins.	30 Mins.
Initial Closed-in Pressure	45 Mins.	42 Mins.
Second Flow Pressure	120 Mins.	120 Mins.
Final Closed-in Pressure	90 Mins.	90 Mins.

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1	
P 2	
P 3	
P 4	
P 5	
P 6	
P 7	
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 14 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.

Second Flow Pressure
Breakdown: 24 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
105	229
110	231
115	232
120	233

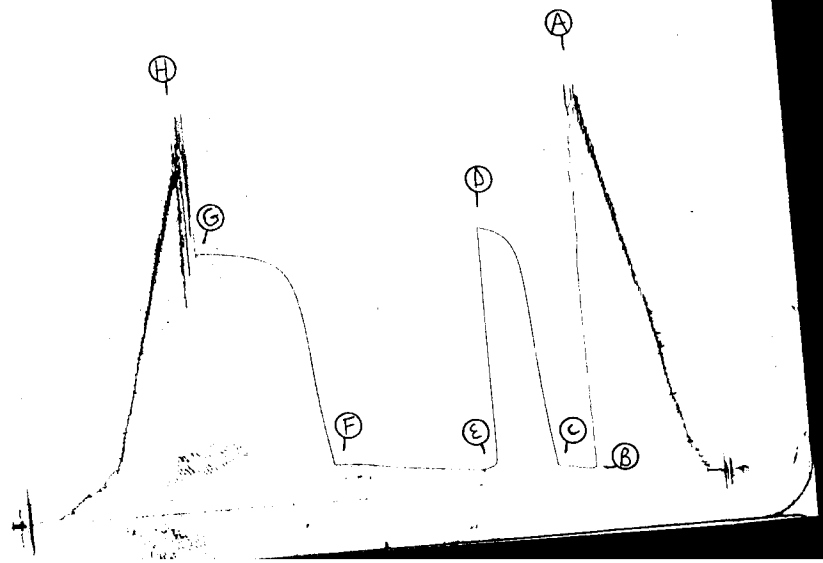
Final Shut-In
Breakdown: 30 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
63	1622
66	1626
69	1630
72	1634
75	1638
78	1640
81	1642
84	1644
87	1646
90	1648

1565
DST #2

IKT #16429

I



OK

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No. 16429

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

Elevation _____ Formation Miss. Eff. Pay _____ Ft.

District Pratt Date 9/24/82 Customer Order No. _____

COMPANY NAME Longhorn Energy Resources, Inc.

ADDRESS P.O. Box 1314, Great Bend KS 67530

LEASE AND WELL NO. Brass #3 COUNTY Barber STATE KS Sec. 30 Twp. 32S Rge. 15W

Mail Invoice To Same #3 BRASS No. Copies Requested Reg
Co. Name Address

Mail Charts To Same No. Copies Requested Reg
Address

Formation Test No. 2 Interval Tested From 4684 ft. to 4754 ft. Total Depth 4754 ft.

Packer Depth 4679 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 4684 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4694 ft. Recorder Number 1565 Cap. 4900

Bottom Recorder Depth (Outside) 4697 ft. Recorder Number 1560 Cap. 4500

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

Drilling Contractor Big "H"

Mud Type Drispac Viscosity 65

Weight 9.4 Water Loss 11.4 cc.

Chlorides 14,000 P.P.M.

Jars: Make — Serial Number —

Did Well Flow? No Reversed Out No

Drill Collar Length 330 I. D. 2.2 in.

Weight Pipe Length — I. D. — in.

Drill Pipe Length 4334 I. D. 3.8 in.

Test Tool Length 20 ft. Tool Size 5 1/2 OD in.

Anchor Length 70 ft. Size 5 1/2 OD in.

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 thru I.F - GTS 12 min FF See ~~GTS~~ Flow Report attached sheet for gas measurements

Recovered 60 ft. of Slightly Oil Cut Mud

Recovered 120 ft. of Very Heavy Oil Cut Froggy Mud

Recovered 300 ft. of Slightly Mud Cut Froggy Oil

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: _____

RECEIVED
SEP 28 1982

Time On Location — A.M. P.M. Time Pick Up Tool 12:30 A.M. (P.M.) Time Off Location 10:00 A.M. (P.M.)

Time Set Packer(s) 2:00 A.M. (P.M.) Time Started Off Bottom 6:45 A.M. (P.M.) Maximum Temperature 120°

Initial Hydrostatic Pressure			(A) 2406	P.S.I.		
Initial Flow Period	Minutes 30	(B) 86	P.S.I. to	(C) 123	P.S.I.	
Initial Closed In Period	Minutes 45	(D) 1655	P.S.I.			
Final Flow Period	Minutes 120	(E) 123	P.S.I. to	(F) 235	P.S.I.	
Final Closed In Period	Minutes 90	(G) 1642	P.S.I.			
Final Hydrostatic Pressure			(H) 2307	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 David J Goldak (?) yes

Western Representative W. Pistorius

FIELD INVOICE

Open Hole Test	$ 675.00
Misrun	$
Straddle Test	$
Jars	$
Selective Zone	$
Safety Joint	$
Standby	$
Evaluation	$
Extra Packer	$
Circ. Sub.	$
Mileage	$
Fluid Sampler	$
Extra Charts	$

Phone 316 262-5861

P. O. Box 1599
WICHITA, KANSAS 67201

No. 4078

GAS FLOW REPORT

Date 9/24/82 Ticket 14429 Company Longhorn Energy ~~Corp~~ Resources, Inc

Well Name and No. Brass #3 Dst No. 2 Interval Tested 4654-4754

County Barber State KS Sec. 30 Twp. 32S Rg. 15W

Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	Size of Orifice	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	Description of Flow
PRE FLOW					
	Inches of water		**SECOND FLOW**	GTS 12 min	
10	17	1/4			6,930
20	26	1/4			8,560
30	28	1/4			8,890 OK
40	30	1/4			9,200
50	30	1/4			9,200
60	2	1/2			8,870
70					OK
80					
90					
100					
110	2	1/2			8,870

GAS BOTTLE

Serial No. _____ Date Bottle Filled _____ Date to be Invoiced _____

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 1½% per month, equal to 18% 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 _____

Authorized by _____

FORM WTC 9

WESTERN TESTING CO., INC.
Pressure Data

Date 9-24 — Test Ticket No. 16429

Recorder No. 1565 — Capacity 4900 — Location 4694 Ft.

Clock No. — — — — — Elevation — — — Well Temperature 120 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2379	P.S.I.	Open Tool	2:00 PM
B First Initial Flow Pressure	84	P.S.I.	First Flow Pressure	30 Mins. 30 Mins.
C First Final Flow Pressure	118	P.S.I.	Initial Closed-in Pressure	45 Mins. 42 Mins.
D Initial Closed-in Pressure	1674	P.S.I.	Second Flow Pressure	120 Mins. 120 Mins.
E Second Initial Flow Pressure	129	P.S.I.	Final Closed-in Pressure	90 Mins. 90 Mins.
F Second Final Flow Pressure	233	P.S.I.		
G Final Closed-in Pressure	1648	P.S.I.		
H Final Hydrostatic Mud	2379	P.S.I.		

PRESSURE BREAKDOWN

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

Point	Mins.	Press.
P 1	0	84
P 2	5	86
P 3	10	92
P 4	15	103
P 5	20	109
P 6	25	115
P 7	30	118
P 8	35	
P 9	40	
P10	45	
P11	50	
P12	55	
P13	60	
P14		
P15		
P16		
P17		
P18		
P19		
P20		

Initial Shut-In
Breakdown: 14 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	118
3	473
6	703
9	988
12	1278
15	1436
18	1519
21	1570
24	1598
27	1621
30	1637
33	1650
36	1659
39	1667
42	1674
45	
48	
51	
54	
57	
60	

Second Flow Pressure
Breakdown: 24 Inc. of 5 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	129
5	129
10	129
15	131
20	136
25	143
30	148
35	153
40	157
45	161
50	165
55	170
60	176
65	182
70	187
75	192
80	199
85	207
90	214
95	220
100	227

con't

Final Shut-In
Breakdown: 30 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	233
3	364
6	510
9	691
12	938
15	1158
18	1283
21	1372
24	1434
27	1478
30	1506
33	1531
36	1548
39	1561
42	1573
45	1583
48	1591
51	1598
54	1605
57	1612
60	1618

con't

WTC - 4

WESTERN TESTING CO., INC.
Pressure Data

Date _____ Test Ticket No. 16429

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	229	63	1622
P 2		66		110	231	66	1626
P 3		69		115	232	69	1630
P 4		72		120	233	72	1634
P 5		75				75	1638
P 6		78				78	1640
P 7		81				81	1642
P 8		84				84	1644
P 9		87				87	1646
P10		90				90	1648
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	