Company Chinook Energy Corporation — Lease & Well No. Mcminimy #1

Elevation ---- — Formation Morrow Sand — Effective Pay - Ft. — Ticket No. 14612

Date 11/16/81 — Sec. 2 — Twp. 34S — Range 22W — County Clark — State Kansas

Test Approved by Tim Ryan — Western Representative Denis Wondra

Formation Test No. 1 — Interval Tested from 5342 ft. to 5402 ft. — Total Depth 5402 ft.

Packer Depth 5337 ft. — Size 6 5/8 in. — Packer Depth 5342 ft. — Size 6 5/8 in.

Packer Depth - ft. — Size - in. — Packer Depth - ft. — Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 5362 ft. — Recorder Number 3474 — Cap. 3000

Bottom Recorder Depth (Outside) 5365 ft. — Recorder Number 1049 — Cap. 4150

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

Drilling Contractor Eagle Drilling Rig #1 — Drill Collar Length 600 — I. D. 2.7 in.

Mud Type drispac — Viscosity 48 — Weight Pipe Length - — I. D. - in.

Weight 9.3 — Water Loss 16.4 cc. — Drill Pipe Length 4713 — I. D. 3.8 in.

Chlorides 12,000 P.P.M. — Test Tool Length 29 ft. — Tool Size 5½OD in.

Jars: Make WTC — Serial Number 403 — Anchor Length 60 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: MISRUN

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of MISRUN NO PACKER SEAT

Recovered ft. of

Remarks:

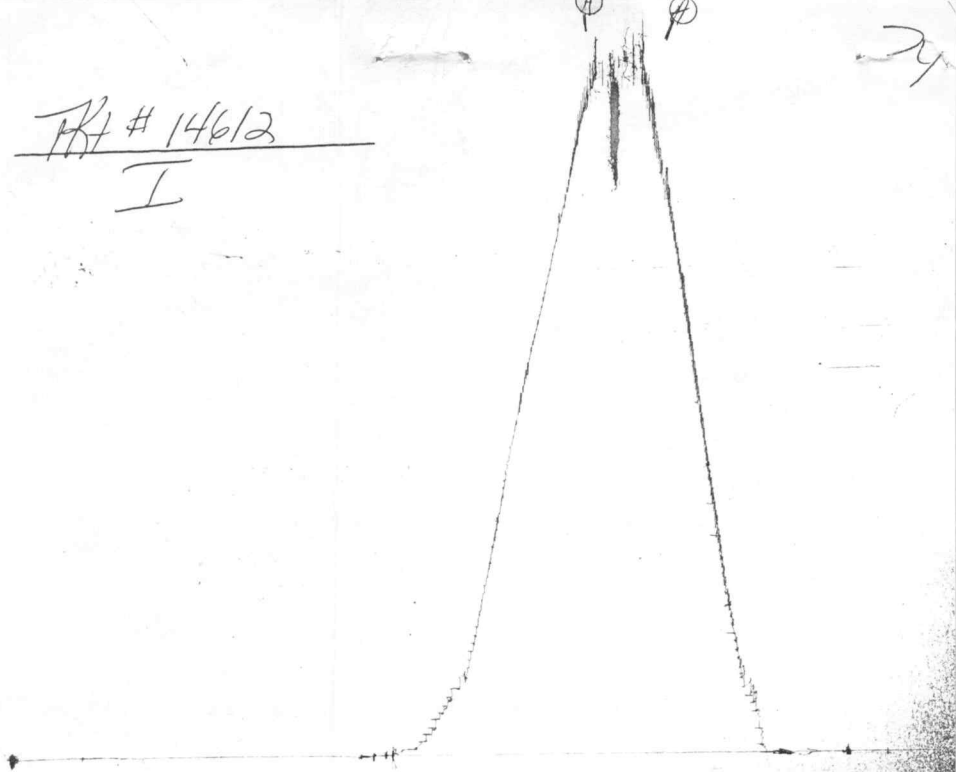
Time Set Packer(s) 1:00 A.M. ~~P.M.~~ — Time Started Off Bottom 1:05 A.M. ~~P.M.~~ — Maximum Temperature ?

Initial Hydrostatic Pressure		(A) 2603	P.S.I.
Initial Flow Period	Minutes	(B) - P.S.I. to (C) -	P.S.I.
Initial Closed In Period	Minutes	(D) -	P.S.I.
Final Flow Period	Minutes	(E) - P.S.I. to (F) -	P.S.I.
Final Closed In Period	Minutes	(G) -	P.S.I.
Final Hydrostatic Pressure		(H) 2603	P.S.I.

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TKt # 14612

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Company Chinook Energy Corporation — Lease & Well No. Mcminimy #1

Elevation ---- — Formation Morrow Sand — Effective Pay - Ft. — Ticket No. 14613

Date 11/16/81 — Sec. 2 — Twp. 34S — Range 22W — County Clark — State Kansas

Test Approved by Tim Ryan — Western Representative Denis Wondra

Formation Test No. 2 — Interval Tested from 5346 ft. to 5402 ft. — Total Depth 5402 ft.

Packer Depth 5339 ft. — Size 6 5/8 in. — Packer Depth 5346 ft. — Size 6 5/8 in.

Packer Depth - ft. — Size - in. — Packer Depth - ft. — Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 5355 ft. — Recorder Number 3474 — Cap. 3000

Bottom Recorder Depth (Outside) 5358 ft. — Recorder Number 1049 — Cap. 4150

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

Drilling Contractor Eagle Drilling Rig #1 — Drill Collar Length 600 — I. D. 2.7 in.

Mud Type drispac — Viscosity 48 — Weight Pipe Length - — I. D. - in.

Weight 9.3 — Water Loss 16.4 cc. — Drill Pipe Length 4717 — I. D. 3.8 in.

Chlorides 12,000 P.P.M. — Test Tool Length 29 ft. — Tool Size 5½OD in.

Jars: Make WTC — Serial Number 403 — Anchor Length 56 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: MISRUN

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of MISRUN NO PACKER SEAT

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 6:15 ~~P.M.~~ A.M. — Time Started Off Bottom 6:20 ~~P.M.~~ A.M. — Maximum Temperature ?

Initial Hydrostatic Pressure ..... (A) 2683 P.S.I.

Initial Flow Period ..... Minutes ____ (B) - P.S.I. to (C) - P.S.I.

Initial Closed In Period ..... Minutes ____ (D) - P.S.I.

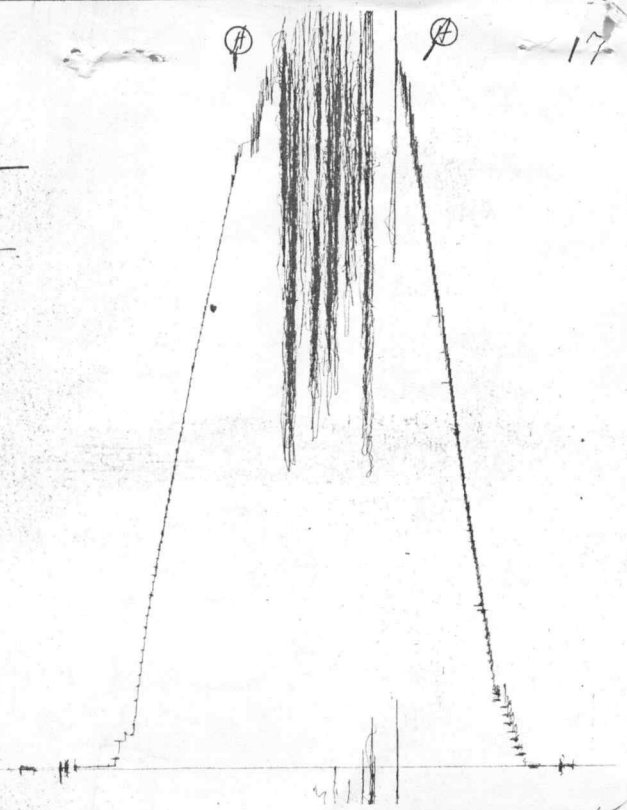
Final Flow Period ..... Minutes ____ (E) - P.S.I. to (F) - P.S.I.

Final Closed In Period ..... Minutes ____ (G) - P.S.I.

Final Hydrostatic Pressure ..... (H) 2683 P.S.I.

TKt # 14613

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Company Chinook Energy Corporation Lease & Well No. Mcminimy #1

Elevation 1849 Kelly Bushing Formation Morrow & Mississippi Effective Pay - Ft. Ticket No. 14278

Date 11/17/81 Sec. 2 Twp. 34S Range 22W County Clark State Kansas

Test Approved by Tim Ryan Western Representative Rod Tritt

Formation Test No. 3 Interval Tested from 5453 ft. to 5463 ft. Total Depth 5505 ft.

Packer Depth 5448 ft. Size 6 3/4 in. Packer Depth 5463 ft. Size 6 3/4 in.

Packer Depth 5453 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 5452 ft. Recorder Number 2606 Cap. 4150

Bottom Recorder Depth (Outside) 5455 ft. Recorder Number 4332 Cap. 4200

Below Straddle Recorder Depth 5502 ft. Recorder Number - Cap. 4400

Drilling Contractor Eagle Drilling Rig #1 Drill Collar Length 550 I. D. 2¼ in.

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

Weight 9.0 Water Loss 12.0 cc. Drill Pipe Length 4902 I. D. 3.8 in.

Chlorides 17,000 P.P.M. Test Tool Length 28 ft. Tool Size 5½OD in.

Jars: Make WTC Serial Number 409 Anchor Length 10 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 4½FH in.

Blow: MISRUN DUE TO PACKER SEAT FAILURE

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of MISRUN

Recovered ft. of

Remarks:

Time Set Packer(s) 3:30 ~~A.M.~~ P.M. Time Started Off Bottom 4:00 ~~A.M.~~ P.M. Maximum Temperature ?

Initial Hydrostatic Pressure ..... (A) 2716 P.S.I.

Initial Flow Period ..... Minutes ____ (B) - P.S.I. to (C) - P.S.I.

Initial Closed In Period ..... Minutes ____ (D) - P.S.I.

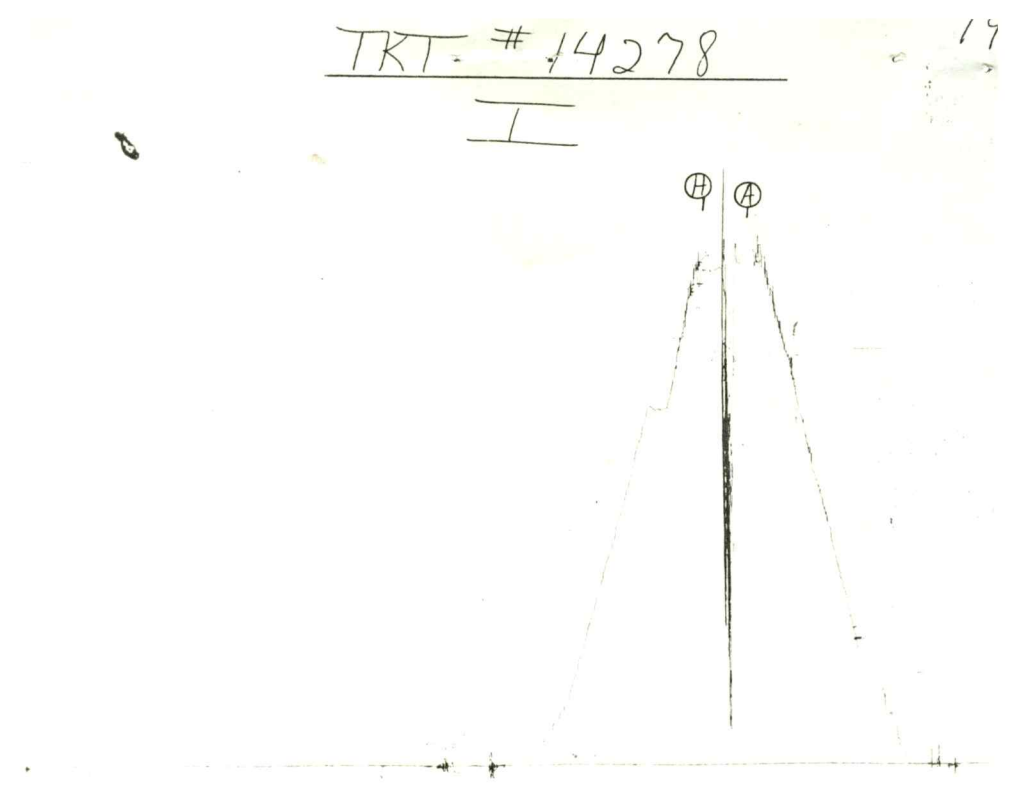
Final Flow Period ..... Minutes ____ (E) - P.S.I. to (F) - P.S.I.

Final Closed In Period ..... Minutes ____ (G) - P.S.I.

Final Hydrostatic Pressure ..... (H) 2655 P.S.I.

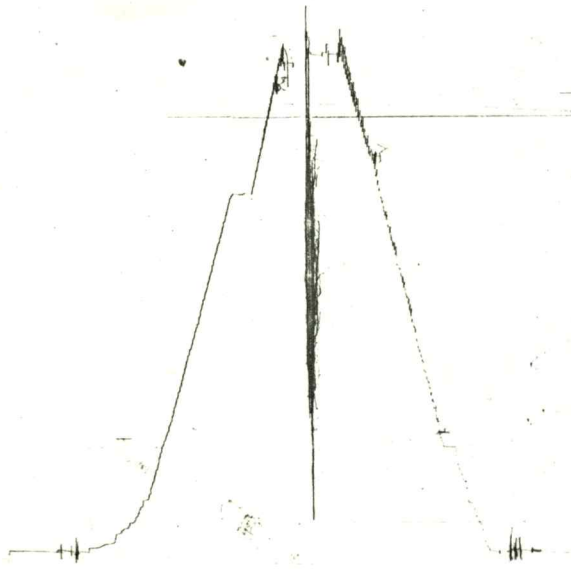
TKT. # 14278

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TKT # 14278

Below Straddle



Company Chinook Energy Corporation — Lease & Well No. Mcminimy #1

Elevation 1849 Kelly Bushing — Formation Mississippi — Effective Pay - Ft. — Ticket No. 14279

Date 11/17/81 — Sec. 2 — Twp. 34S — Range 22W — County Clark — State Kansas

Test Approved by -- — Western Representative Rod Tritt

Formation Test No. 4 — Interval Tested from 5390 ft. to 5468 ft. — Total Depth 5505 ft.

Packer Depth 5385 ft. — Size 6 3/4 in. — Packer Depth 5468 ft. — Size 6 3/4 in.

Packer Depth 5390 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 5394 ft. — Recorder Number 2606 — Cap. 4150

Bottom Recorder Depth (Outside) 5397 ft. — Recorder Number 4332 — Cap. 4200

Below Straddle Recorder Depth 5502 ft. — Recorder Number - — Cap. -

Drilling Contractor Eagle Drilling Rig #1 — Drill Collar Length 550 — I. D. 2¼ in.

Mud Type Drispac — Viscosity 47 — Weight Pipe Length - — I. D. - in.

Weight 9.0 — Water Loss 12.0 cc. — Drill Pipe Length 4904 — I. D. 3.8 in.

Chlorides 17,000 P.P.M. — Test Tool Length 33 ft. — Tool Size 5½OD in.

Jars: Make WTC — Serial Number 409 — Anchor Length 78 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 4½FH in.

Blow: Weak building to light blow on initial flow period. Light blow on final flow period. No gas to surface.

Recovered 75 ft. of drilling mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Plugging action on flow period. Tool kept dropping on initial flow period. Tore up all three packers pulling loose tool.

Time Set Packer(s) 10:55 ~~A.M.~~ P.M. — Time Started Off Bottom 3:25 A.M. ~~P.M.~~ — Maximum Temperature 128°

Initial Hydrostatic Pressure			(A)	2712 P.S.I.		
Initial Flow Period	Minutes	30	(B)	52 * P.S.I.	to (C)	198 * P.S.I.
Initial Closed In Period	Minutes	57	(D)	1569 P.S.I.		
Final Flow Period	Minutes	60	(E)	216 * P.S.I.	to (F)	502 * P.S.I.
Final Closed In Period	Minutes	117	(G)	1559 P.S.I.		
Final Hydrostatic Pressure			(H)	2660 P.S.I.		

WESTERN TESTING CO., INC.
Pressure Data

Date 11/17/81 Test Ticket No. 14279

Recorder No. 2606 Capacity 4150 Location 5394 Ft.

Clock No. - Elevation 1849 Kelly Bushing Well Temperature 128 °F

Point	Pressure		Time Given		Time Computed	
A Initial Hydrostatic Mud	2712	P.S.I.	Open Tool	10:55P M		
B First Initial Flow Pressure	52*	P.S.I.	First Flow Pressure	30 Mins.	30	Mins.
C First Final Flow Pressure	198*	P.S.I.	Initial Closed-in Pressure	60 Mins.	57	Mins.
D Initial Closed-in Pressure	1569	P.S.I.	Second Flow Pressure	60 Mins.	60	Mins.
E Second Initial Flow Pressure	216*	P.S.I.	Final Closed-in Pressure	120 Mins.	117	Mins.
F Second Final Flow Pressure	502*	P.S.I.				
G Final Closed-in Pressure	1559	P.S.I.				
H Final Hydrostatic Mud	2660	P.S.I.				

*Pressures questionable due to plugging action.

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1 0	52*
P 2 5	33*
P 3 10	121*
P 4 15	78*
P 5 20	123*
P 6 25	229*
P 7 30	198*
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 19 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	198*
3	713
6	804
9	896
12	971
15	1048
18	1106
21	1170
24	1219
27	1271
30	1313
33	1350
36	1386
39	1419
42	1452
45	1479
48	1501
51	1525
54	1545
57	1569

Second Flow Pressure
Breakdown: 12 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	216*
5	655*
10	936*
15	647*
20	886*
25	996*
30	1095*
35	1168*
40	1168*
45	252*
50	281*
55	427*
60	502*

Final Shut-In
Breakdown: 39 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	502*
3	548
6	591
9	635
12	676
15	717
18	738
21	782
24	823
27	866
30	904
33	944
36	979
39	1014
42	1052
45	1086
48	1116
51	1145
54	1176
57	1201
60	1230

WTC - 4

CONT'D NEXT PAGE

WESTERN TESTING CO., INC.
Pressure Data

Date 11/17/81 Test Ticket No. 14279

Recorder No. 2606 Capacity 4150 Location 5394 Ft.

Clock No. - Elevation 1849 Kelly Bushing Well Temperature 128 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2712	P.S.I.	Open Tool	10:55P M	
B	First Initial Flow Pressure	52*	P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	198*	P.S.I.	Initial Closed-in Pressure	60 Mins.	57 Mins.
D	Initial Closed-in Pressure	1569	P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E	Second Initial Flow Pressure	216*	P.S.I.	Final Closed-in Pressure	120 Mins.	117 Mins.
F	Second Final Flow Pressure	502*	P.S.I.			
G	Final Closed-in Pressure	1559	P.S.I.			
H	Final Hydrostatic Mud	2660	P.S.I.			

*Pressures questionable due to plugging action.

PRESSURE BREAKDOWN

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

Initial Shut-In
Breakdown: 19 Inc. of 3 mins. and a final inc. of 0 Min.

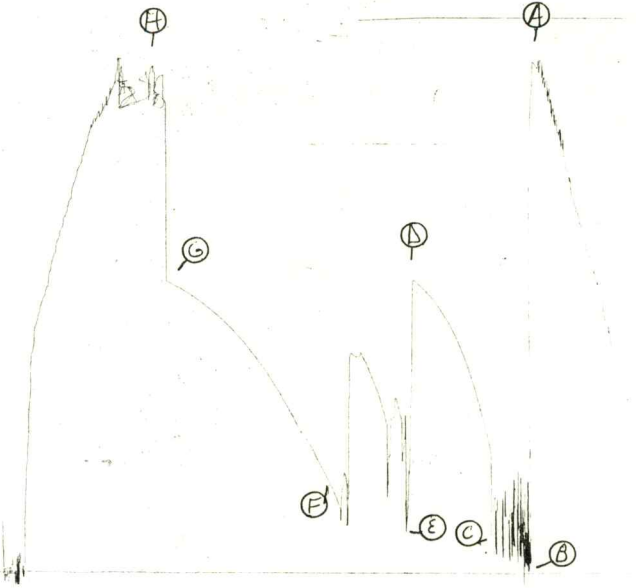
Second Flow Pressure
Breakdown: 12 Inc. of 5 mins. and a final inc. of 0 Min.

Final Shut-In
Breakdown: 39 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	1257
P 2						66	1280
P 3						69	1304
P 4						72	1327
P 5						75	1346
P 6						78	1369
P 7						81	1388
P 8						84	1405
P 9						87	1423
P10						90	1440
P11						93	1454
P12						96	1472
P13						99	1488
P14						102	1502
P15						105	1516
P16						108	1528
P17						111	1541
P18						114	1551
P19						117	1559
P20							

JKT # 14279

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13271 DST #4

IRT # 14279

19

Below Straddle

