Ricketts Testing, Inc.

Company VIKING RESOURCES, INC. Lease & Well No. BROWN #1

Elevation 2596 G.L. Formation K.C. J Effective Pay ____ ft. Ticket No. 1925

Date 11-11-99 Sec. 2 Twp. 18 Range 27W County LANE State KANSAS

Test Approved by JERRY HONAS Ricketts Representative JIM RICKETTS

Formation Test No. 1 Interval Tested from 4132 ft. to 4162 ft. Total Depth 4162 ft.

Packer Depth 4132 ft. Size 6 3/4 in. Packer Depth ____ ft. Size ____ in.

Packer Depth 4129 ft. Size 6 3/4 in. Packer Depth ____ ft. Size ____ in.

Depth of Selective Zone Set ____

Top Recorder Depth (Inside) 4137 ft. Recorder Number 13306 Cap. 4625

Bottom Recorder Depth (Outside) 4140 ft. Recorder Number 13307 Cap. 4650

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

Drilling Contractor Mallard Drilling Rig #2 Drill Collar Length 243 I.D. 2.25 in.

Mud Type Chemical Viscosity 44 Weight Pipe Length ____ I.D. ____ in.

Weight 9.1 Water Loss 10.0 cc. Drill Pipe Length 3869 I.D. 3.25 in.

Chlorides 5800 P.P.M. Test Tool Length 20 ft. Tool Size 5½ in.

Jars: Make ____ Serial Number ____ Anchor Length 30 ft. Size 5½ in.

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

Gravity Oil ____ Main Hole Size 7 7/8 in. Tool Joint Size 4½xh in.

Blow: Weak blow building to 6" in water Initial Flow Period.

Weak blow building to 12" in water in 30 minutes. Strong.

Recovered 65 ft. of Oil cut mud. 12% Oil 88% Mud

Recovered 120 ft. of Mud cut oil. 10% Mud 80% Oil 10% Gas

Recovered 480 ft. of Gas in pipe.

Recovered ____ ft. of ____

Recovered ____ ft. of ____

Remarks: ____

Time Set Packer (s) 11:27 P M. Time Started Off Bottom 2:43 A M. Maximum Temperature 113°

Initial Hydrostatic Pressure ..... (A) 2162 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 20 P.S.I. to (C) 37 P.S.I.

Initial Closed In Period ..... Minutes 45 (D) 822 P.S.I.

Final Flow Period ..... Minutes 60 (E) 59 P.S.I. to (F) 89 P.S.I.

Final Closed In Period ..... Minutes 60 (G) 813 P.S.I.

Final Hydrostatic Pressure ..... (H) 2134 P.S.I.

RICKETTS TESTING, INC.

Pressure Data

Date 11-11-99 Test Ticket No 1925

Recorder No 13306 Capacity 4625 Location 4137 Ft.

Clock No Elevation 2596 G.L. Well Temperature 113 °F

Point		Pressure
A	Initial Hydrostatic Mud	2162 P.S.I.
B	First Initial Flow Pressure	20 P.S.I.
C	First Final Flow Pressure	37 P.S.I.
D	Initial Closed-in Pressure	822 P.S.I.
E	Second Initial Flow Pressure	59 P.S.I.
F	Second Final Flow Pressure	89 P.S.I.
G	Final Closed-in Pressure	813 P.S.I.
H	Final Hydrostatic Mud	2134 P.S.I.

	Time Given	Time Computed
Open Tool	11:27 P M	
First Flow Pressure	30 Mins.	30 Mins.
Initial Closed-in Pressure	45 Mins.	45 Mins.
Second Flow Pressure	60 Mins.	60 Mins.
Final Closed-in Pressure	60 Mins.	60 Mins.

PRESSURE BREAKDOWN

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

Point	Mins.	Press.
P 1	0	20
P 2	5	20
P 3	10	20
P 4	15	20
P 5	20	26
P 6	25	32
P 7	30	37
P 8	35	
P 9	40	
P10	45	
P11	50	
P12	55	
P13	60	
P14	65	
P15	70	
P16	75	
P17	80	
P18	85	
P19	90	
P20	95	

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

Point	Minutes	Press.
	0	37
	3	52
	6	119
	9	317
	12	616
	15	706
	18	743
	21	764
	24	778
	27	790
	30	802
	33	809
	36	813
	39	817
	42	820
	45	822
	48	
	51	
	54	
	57	
	60	

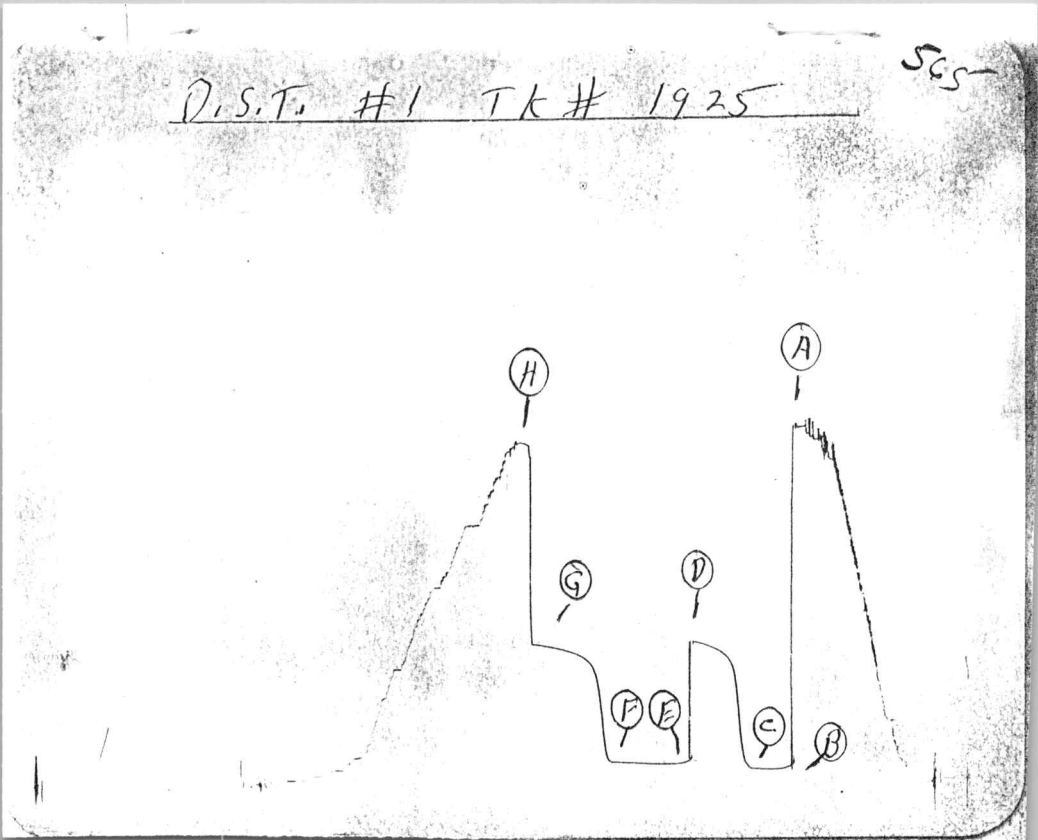
Second Flow Pressure
Breakdown: 12 Inc.
of 5 mins. and a
final inc. of ____ Min.

Point	Minutes	Press.
	0	59
	5	62
	10	64
	15	66
	20	68
	25	70
	30	72
	35	74
	40	77
	45	80
	50	83
	55	86
	60	89
	65	
	70	
	75	
	80	
	85	
	90	

Final Shut-In
Breakdown: 20 Inc.
of 3 mins. and a
final inc. of ____ Min.

Point	Minutes	Press.
	0	89
	3	142
	6	340
	9	580
	12	675
	15	715
	18	739
	21	753
	24	762
	27	771
	30	778
	33	784
	36	789
	39	793
	42	797
	45	802
	48	805
	51	808
	54	810
	57	812
	60	813

D.S.T. #1 Tk # 1925



Ricketts Testing, Inc.

Company VIKING RESOURCES, INC. Lease & Well No. BROWN #1

Elevation 2596 G.L. Formation K.C. K Effective Pay ____ ft. Ticket No. 1926

Date 11-12-99 Sec. 2 Twp. 18 Range 27W County LANE State KANSAS

Test Approved by JERRY HONAS Ricketts Representative JIM RICKETTS

Formation Test No. 2 Interval Tested from 4164 ft. to 4195 ft. Total Depth 4195 ft.

Packer Depth 4164 ft. Size 6 3/4 in. Packer Depth ____ ft. Size ____ in.

Packer Depth 4161 ft. Size 6 3/4 in. Packer Depth ____ ft. Size ____ in.

Depth of Selective Zone Set ____

Top Recorder Depth (Inside) 4169 ft. Recorder Number 13306 Cap. 4625

Bottom Recorder Depth (Outside) 4172 ft. Recorder Number 13307 Cap. 4650

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

Drilling Contractor Mallard Drilling Rig #2 Drill Collar Length 243 I.D. 2.25 in.

Mud Type Chemical Viscosity 44 Weight Pipe Length ____ I.D. ____ in.

Weight 9.1 Water Loss 10.0 cc. Drill Pipe Length 3901 I.D. 3.25 in.

Chlorides 5800 P.P.M. Test Tool Length 20 ft. Tool Size 5½ in.

Jars: Make ____ Serial Number ____ Anchor Length 31 ft. Size 5½ in.

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

Gravity Oil ____ Main Hole Size 7 7/8 in. Tool Joint Size 4½xh in.

Blow: Weak blow building to 10" strong blow in 30 minutes Initial Flow Period.
Weak blow building to 10" strong blow in 30 minutes Final Flow Period.

Recovered 340 ft. of Gas in pipe.

Recovered 60 ft. of Oil & mud/water & gas 40% Oil 40% Mud 3% Water 17% Gas

Recovered 340 ft. of Mud cut water.

Recovered ____ ft. of ____

Recovered ____ ft. of ____

Remarks: DST Fluid Chlorides 62,000 PPM

Time Set Packer (s) 3:03 P M. Time Started Off Bottom 6:18 P M. Maximum Temperature 117°

Initial Hydrostatic Pressure		(A)	2127	P.S.I.
Initial Flow Period	Minutes 30	(B)	41	P.S.I. to
		(C)	113	P.S.I.
Initial Closed In Period	Minutes 45	(D)	904	P.S.I.
Final Flow Period	Minutes 60	(E)	138	P.S.I. to
		(F)	189	P.S.I.
Final Closed In Period	Minutes 60	(G)	895	P.S.I.
Final Hydrostatic Pressure		(H)	2117	P.S.I.

RICKETTS TESTING, INC.

Pressure Data

Date 11-12-99 Test Ticket No. 1926

Recorder No. 13306 Capacity 4625 Location 4169 Ft.

Clock No. Elevation 2596 G.L. Well Temperature 117 °F

Point		Pressure	
A	Initial Hydrostatic Mud	2127	P.S.I.
B	First Initial Flow Pressure	41	P.S.I.
C	First Final Flow Pressure	113	P.S.I.
D	Initial Closed-in Pressure	904	P.S.I.
E	Second Initial Flow Pressure	138	P.S.I.
F	Second Final Flow Pressure	189	P.S.I.
G	Final Closed-in Pressure	895	P.S.I.
H	Final Hydrostatic Mud	2117	P.S.I.

	Time Given	Time Computed
Open Tool	3:03 PM	
First Flow Pressure	30 Mins.	30 Mins.
Initial Closed-in Pressure	45 Mins.	45 Mins.
Second Flow Pressure	60 Mins.	60 Mins.
Final Closed-in Pressure	60 Mins.	60 Mins.

PRESSURE BREAKDOWN

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

Point	Mins.	Press.
P 1	0	41
P 2	5	43
P 3	10	59
P 4	15	75
P 5	20	90
P 6	25	101
P 7	30	113
P 8	35	
P 9	40	
P10	45	
P11	50	
P12	55	
P13	60	
P14	65	
P15	70	
P16	75	
P17	80	
P18	85	
P19	90	
P20	95	

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

Point Minutes	Press.
0	113
3	767
6	827
9	853
12	865
15	874
18	880
21	884
24	888
27	890
30	892
33	894
36	896
39	898
42	902
45	904
48	
51	
54	
57	
60	

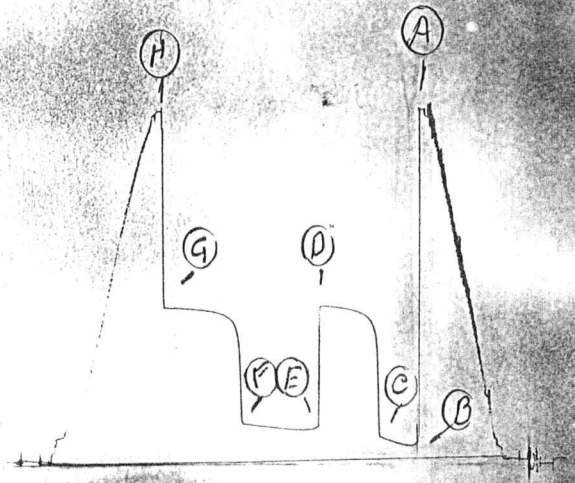
Second Flow Pressure
Breakdown: 12 Inc.
of 5 mins. and a
final inc. of ____ Min.

Point Minutes	Press.
0	138
5	138
10	140
15	142
20	147
25	155
30	159
35	163
40	167
45	172
50	178
55	183
60	189
65	
70	
75	
80	
85	
90	

Final Shut-In
Breakdown: 20 Inc.
of 3 mins. and a
final inc. of ____ Min.

Point Minutes	Press.
0	189
3	656
6	790
9	830
12	848
15	860
18	868
21	874
24	877
27	880
30	883
33	885
36	887
39	888
42	889
45	890
48	891
51	892
54	893
57	894
60	895

DST #2 TK # 1926 SS



Ricketts Testing, Inc.

Company VIKING RESOURCES, INC. Lease & Well No. BROWN #1

Elevation 2596 G.L. Formation K.C. J Effective Pay ____ ft. Ticket No. 1927

Date 11-13-99 Sec. 2 Twp. 18 Range 27W County LANE State KANSAS

Test Approved by JERRY HONAS Ricketts Representative JIM RICKETTS

Formation Test No. 3 Interval Tested from 4201 ft. to 4240 ft. Total Depth 4240 ft.

Packer Depth 4201 ft. Size 6 3/4 in. Packer Depth ____ ft. Size ____ in.

Packer Depth 4198 ft. Size 6 3/4 in. Packer Depth ____ ft. Size ____ in.

Depth of Selective Zone Set ____

Top Recorder Depth (Inside) 4206 ft. Recorder Number 13306 Cap. 4625

Bottom Recorder Depth (Outside) 4209 ft. Recorder Number 13565 Cap. 4475

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

Drilling Contractor Mallard Drilling Rig #2 Drill Collar Length 243 I.D. 2.25 in.

Mud Type Chemical Viscosity 45 Weight Pipe Length ____ I.D. ____ in.

Weight 9.3 Water Loss 9.8 cc. Drill Pipe Length 3938 I.D. 3.25 in.

Chlorides 6600 P.P.M. Test Tool Length 20 ft. Tool Size 5½ in.

Jars: Make ____ Serial Number ____ Anchor Length 39 ft. Size 5½ in.

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

Gravity Oil ____ Main Hole Size 7 7/8 in. Tool Joint Size 4½xh in.

Blow: Strong blow throughout test.

Recovered 120 ft. of Gas in pipe.

Recovered 800 ft. of Water with a trace of oil.

Recovered ____ ft. of ____

Recovered ____ ft. of ____

Recovered ____ ft. of ____

Remarks: DST Fluid Chlorides 65,000 PPM

Time Set Packer (s) 7:26 A.M. Time Started Off Bottom 11:26 A.M. Maximum Temperature 122°

Initial Hydrostatic Pressure ..... (A) 2150 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 30 P.S.I. to (C) 218 P.S.I.

Initial Closed In Period ..... Minutes 45 (D) 874 P.S.I.

Final Flow Period ..... Minutes 45 (E) 237 P.S.I. to (F) 378 P.S.I.

Final Closed In Period ..... Minutes 60 (G) 867. P.S.I.

Final Hydrostatic Pressure ..... (H) 2130 P.S.I.

RICKETTS TESTING, INC.

Pressure Data

Date 11-13-99 Test Ticket No 1927

Recorder No. 13306 Capacity 4625 Location 4206 Ft.

Clock No. Elevation 2596 G.L. Well Temperature 122 °F

Point		Pressure		Time Given	Time Computed
A	Initial Hydrostatic Mud	2150	P.S.I.	Open Tool 7:26 A M	
B	First Initial Flow Pressure	30	P.S.I.	First Flow Pressure 30 Mins.	30 Mins.
C	First Final Flow Pressure	218	P.S.I.	Initial Closed-in Pressure 45 Mins.	45 Mins.
D	Initial Closed-in Pressure	874	P.S.I.	Second Flow Pressure 45 Mins.	45 Mins.
E	Second Initial Flow Pressure	237	P.S.I.	Final Closed-in Pressure 60 Mins.	60 Mins.
F	Second Final Flow Pressure	378	P.S.I.		
G	Final Closed-in Pressure	867	P.S.I.		
H	Final Hydrostatic Mud	2130	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure

Breakdown: 6 Inc. of 5 mins. and a final inc. of ____ Min.

Point	Mins.	Press.
P 1	0	30
P 2	5	101
P 3	10	142
P 4	15	165
P 5	20	184
P 6	25	207
P 7	30	218
P 8	35	
P 9	40	
P10	45	
P11	50	
P12	55	
P13	60	
P14	65	
P15	70	
P16	75	
P17	80	
P18	85	
P19	90	
P20	95	

Initial Shut-In

Breakdown: 15 Inc. of 3 mins. and a final inc. of ____ Min.

Point	Minutes	Press.
	0	218
	3	753
	6	781
	9	802
	12	827
	15	837
	18	841
	21	848
	24	855
	27	862
	30	865
	33	867
	36	869
	39	871
	42	873
	45	874
	48	
	51	
	54	
	57	
	60	

Second Flow Pressure

Breakdown: 9 Inc. of 5 mins. and a final inc. of ____ Min.

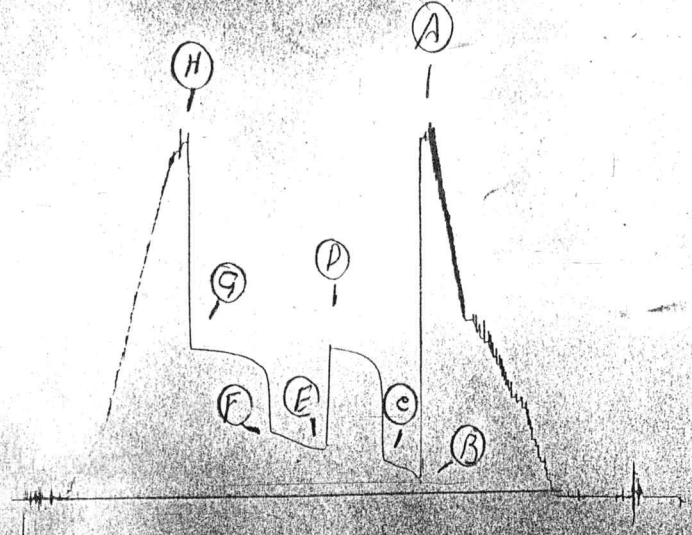
Point	Minutes	Press.
	0	237
	5	249
	10	265
	15	286
	20	300
	25	319
	30	336
	35	347
	40	366
	45	378
	50	
	55	
	60	
	65	
	70	
	75	
	80	
	85	
	90	

Final Shut-In

Breakdown: 20 Inc. of 3 mins. and a final inc. of ____ Min.

Point	Minutes	Press.
	0	378
	3	755
	6	783
	9	804
	12	816
	15	825
	18	831
	21	837
	24	842
	27	846
	30	854
	33	857
	36	859
	39	861
	42	863
	45	864
	48	865
	51	866
	54	867
	57	867
	60	867

DST #3 TK# 1927



Ricketts Testing, Inc.

Company VIKING RESOURCES, INC. Lease & Well No. BROWN #1

Elevation 2596 G.L. Formation MISSISSIPPI Effective Pay ____ ft. Ticket No. 1928

Date 11-14-99 Sec. 2 Twp. 18 Range 27W County LANE State KANSAS

Test Approved by JERRY HONAS Ricketts Representative JIM RICKETTS

Formation Test No. 4 Interval Tested from 4496 ft. to 4538 ft. Total Depth 4538 ft.

Packer Depth 4496 ft. Size 6 3/4 in. Packer Depth ____ ft. Size ____ in.

Packer Depth 4493 ft. Size 6 3/4 in. Packer Depth ____ ft. Size ____ in.

Depth of Selective Zone Set ____

Top Recorder Depth (Inside) 4501 ft. Recorder Number 13306 Cap. 4625

Bottom Recorder Depth (Outside) 4504 ft. Recorder Number 13307 Cap. 4650

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

Drilling Contractor Mallard Drilling Rig #2 Drill Collar Length 243 I.D. 2.25 in.

Mud Type Chemical Viscosity 46 Weight Pipe Length ____ I.D. ____ in.

Weight 9.3 Water Loss 10.0 cc. Drill Pipe Length 4233 I.D. 3.25 in.

Chlorides 6400 P.P.M. Test Tool Length 20 ft. Tool Size 5½ in.

Jars: Make ____ Serial Number ____ Anchor Length 42 ft. Size 5½ in.

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

Gravity Oil ____ Main Hole Size 7 7/8 in. Tool Joint Size 4½xh in.

Blow: Weak blow Initial Flow Period. Died in 18 minutes.

No blow Final Flow Period.

Recovered 10 ft. of Mud with a good show of oil on top of tool.

Recovered ____ ft. of ____

Recovered ____ ft. of ____

Recovered ____ ft. of ____

Recovered ____ ft. of ____

Remarks: ____

Time Set Packer (s) 6:03 P.M. Time Started Off Bottom 8:03 P M. Maximum Temperature 115°

Initial Hydrostatic Pressure		(A) 2224	P.S.I.	
Initial Flow Period	Minutes 30	(B) 19	P.S.I.	to
		(C) 19	P.S.I.	
Initial Closed In Period	Minutes 30	(D) 927	P.S.I.	
Final Flow Period	Minutes 30	(E) 19	P.S.I.	to
		(F) 19	P.S.I.	
Final Closed In Period	Minutes 30	(G) 523.	P.S.I.	
Final Hydrostatic Pressure		(H) 2205	P.S.I.	

RICKETTS TESTING, INC.

Pressure Data

Date 11-14-99 Test Ticket No 1928

Recorder No. 13306 Capacity 4625 Location 4501 Ft.

Clock No. Elevation 2596 G.L. Well Temperature 115 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2224 P.S.I.	Open Tool	6:03 P M	
B First Initial Flow Pressure	19 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	19 P.S.I.	Initial Closed-in Pressure	30 Mins.	27 Mins.
D Initial Closed-in Pressure	927 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E Second Initial Flow Pressure	19 P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
F Second Final Flow Pressure	19 P.S.I.			
G Final Closed-in Pressure	523 P.S.I.			
H Final Hydrostatic Mud	2205 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure

Breakdown: 6 Inc. of 5 mins. and a final inc. of Min.

Point Mins.	Press.
P 1 0	19
P 2 5	19
P 3 10	19
P 4 15	19
P 5 20	19
P 6 25	19
P 7 30	19
P 8 35	
P 9 40	
P10 45	
P11 50	
P12 55	
P13 60	
P14 65	
P15 70	
P16 75	
P17 80	
P18 85	
P19 90	
P20 95	

Initial Shut-In

Breakdown: 9 Inc. of 3 mins. and a final inc. of Min.

Point Minutes	Press.
0	19
3	75
6	302
9	483
12	604
15	691
18	774
21	844
24	876
27	927
30	
33	
36	
39	
42	
45	
48	
51	
54	
57	
60	

Second Flow Pressure

Breakdown: 6 Inc. of 5 mins. and a final inc. of Min.

Point Minutes	Press.
0	19
5	19
10	19
15	19
20	19
25	19
30	19
35	
40	
45	
50	
55	
60	
65	
70	
75	
80	
85	
90	

Final Shut-In

Breakdown: 10 Inc. of 3 mins. and a final inc. of Min.

Point Minutes	Press.
0	19
3	39
6	48
9	66
12	92
15	177
18	249
21	333
24	423
27	483
30	523
33	
36	
39	
42	
45	
48	
51	
54	
57	
60	

DST #4 TK # 1928