Company Texas - El Dorado Oil Company | Lease & Well No. #4-18 Alridge

Elevation --- | Formation Pawnee | Effective Pay --- Ft. | Ticket No. 15748

Date 11/30/82 | Sec. 18 | Twp. 32S | Range 21W | County Clark | State Kansas

Test Approved by Klaus Kallmai | Western Representative Darrell Claphan

Formation Test No. 1 | Interval Tested from 5045 ft. to 5078 ft. | Total Depth 5078 ft.

Packer Depth 5030 ft. | Size 6 3/4 in. | Packer Depth 5045 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) 5047 ft. | Recorder Number 10980 | Cap. 4200

Bottom Recorder Depth (Outside) 5051 ft. | Recorder Number 6233 | Cap. 4000

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

Drilling Contractor Red Tiger Drilling Rig | Drill Collar Length - | I. D. - in.

Mud Type drispac | Viscosity 45 | Weight Pipe Length 1124 | I. D. 2.7 in.

Weight 9.4 | Water Loss 15.2 cc. | Drill Pipe Length 3882 | I. D. 3.8 in.

Chlorides 22,000 P.P.M. | Test Tool Length 39 ft. | Tool Size 4.5 in.

Jars: Make WTC | Serial Number 414 | Anchor Length 33 ft. | Size 5.5 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 4.5 in.

Blow: Initial flow period weak blow building from one half inch to three inches. Weak blow throughout final flow period - one fourth inch to one inch.

Recovered 65 ft. of mud Chlorides 92,000 ppm

Recovered 300 ft. of muddy water

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Oil specks on top of tool.

Time Set Packer(s) 3:10 A.M. P.M. | Time Started Off Bottom 5:10 A.M. P.M. | Maximum Temperature 117°

Initial Hydrostatic Pressure		(A) 2566 P.S.I.				
Initial Flow Period	Minutes 30	(B) 79 P.S.I.	to (C) 109 P.S.I.			
Initial Closed In Period	Minutes 30	(D) 1761 P.S.I.				
Final Flow Period	Minutes 30	(E) 186 P.S.I.	to (F) 210 P.S.I.			
Final Closed In Period	Minutes 27	(G) 1722 P.S.I.				
Final Hydrostatic Pressure		(H) 2550 P.S.I.				

WTC-1

WESTERN TESTING CO., INC.

Pressure Data

Date 11/30/82 Test Ticket No. 15748

Recorder No. 6233 Capacity 4200 Location 5047 Ft.

Clock No. -- Elevation --- Well Temperature 117 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2566 P.S.I.	Open Tool		3:10A M	
B	First Initial Flow Pressure	79 P.S.I.	First Flow Pressure		30 Mins.	30 Mins.
C	First Final Flow Pressure	109 P.S.I.	Initial Closed-in Pressure		30 Mins.	30 Mins.
D	Initial Closed-in Pressure	1761 P.S.I.	Second Flow Pressure		30 Mins.	30 Mins.
E	Second Initial Flow Pressure	186 P.S.I.	Final Closed-in Pressure		30 Mins.	27 Mins.
F	Second Final Flow Pressure	210 P.S.I.				
G	Final Closed-in Pressure	1722 P.S.I.				
H	Final Hydrostatic Mud	2550 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	79
P 2	5	79
P 3	10	79
P 4	15	88
P 5	20	96
P 6	25	106
P 7	30	109
P 8		
P 9		
P10		
P11		
P12		
P13		
P14		
P15		
P16		
P17		
P18		
P19		
P20		

Initial Shut-In
Breakdown: 10 Inc. of 3 mins. and a final inc. of 0 Min.

Point	Minutes	Press.
	0	109
	3	1450
	6	1552
	9	1609
	12	1649
	15	1683
	18	1707
	21	1724
	24	1738
	27	1753
	30	1761

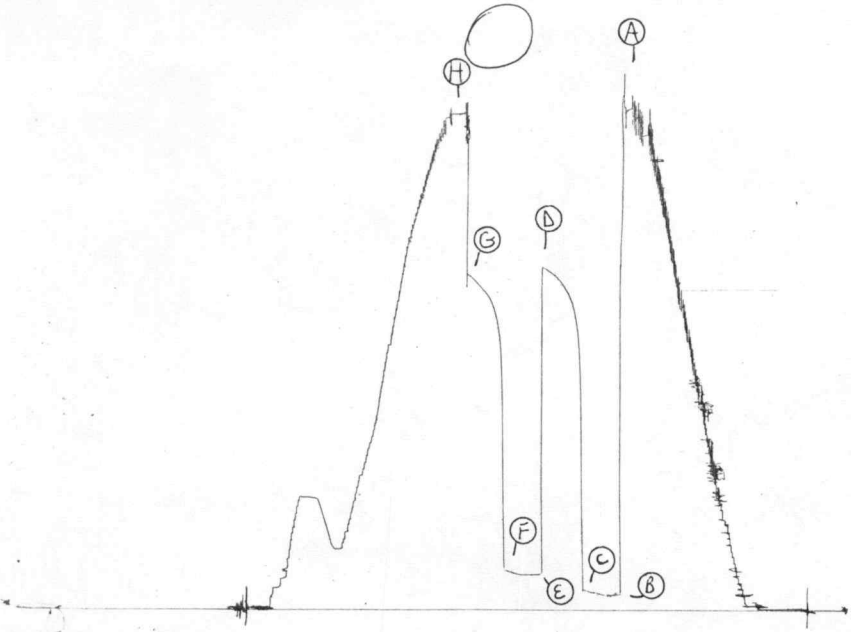
Second Flow Pressure
Breakdown: 6 Inc. of 5 mins. and a final inc. of 0 Min.

Point	Minutes	Press.
	0	186
	5	186
	10	186
	15	188
	20	195
	25	206
	30	310

Final Shut-In
Breakdown: 9 Inc. of 3 mins. and a final inc. of 0 Min.

Point	Minutes	Press.
	0	210
	3	1450
	6	1538
	9	1589
	12	1623
	15	1649
	18	1673
	21	1693
	24	1714
	27	1722

TKT # 15748



6233

Company Texas El Dorado Oil Company — Lease & Well No. #4-18 Aldridge

Elevation 2063 Kelly Bushing 2059 Ground Level — Formation Viola — Effective Pay ---- Ft. — Ticket No. 15751

Date 12/7/82 — Sec. 18 — Twp. 32S — Range 21W — County Clark — State Kansas

Test Approved by -----? — Western Representative Darrell Claphan

Formation Test No. 2 — Interval Tested from 6265 ft. to 6330 ft. — Total Depth 6330 ft.

Packer Depth 6260 ft. — Size 6 3/4 in. — Packer Depth 6265 ft. — Size 6 3/4 in.

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

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 6267 ft. — Recorder Number 10980 — Cap. 4200

Bottom Recorder Depth (Outside) 6271 ft. — Recorder Number 6233 — Cap. 4000

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

Drilling Contractor Red Tiger Drlg. Rig #1 — Drill Collar Length - — I. D. - in.

Mud Type drispac — Viscosity 47 — Weight Pipe Length 1124 — I. D. 2.7 in.

Weight 9.7 — Water Loss 11.2 cc. — Drill Pipe Length 5112 — I. D. 3.8 in.

Chlorides 18,000 P.P.M. — Test Tool Length 29 ft. — Tool Size 4.5 in.

Jars: Make WTC — Serial Number 414 — Anchor Length 65 ft. — Size 3.8 + 5.5 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 4.5 in.

Blow: Weak blow throughout initial flow period. No blow on final flow period.

Recovered 40 ft. of mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Head valve twisted out when about ready to open for final opening - had to leave tool closed and repair.

Read #6233

Time Set Packer(s) 12:20 A.M. ~~P.M.~~ — Time Started Off Bottom 4:20 A.M. ~~P.M.~~ — Maximum Temperature 132°

Initial Hydrostatic Pressure			(A) 3283	P.S.I.		
Initial Flow Period	Minutes 60	(B) 71	P.S.I. to	(C) 71	P.S.I.	
Initial Closed In Period	Minutes 90	(D) 71	P.S.I.			
Final Flow Period	Minutes 60	(E) 71	P.S.I. to	(F) 71	P.S.I.	
Final Closed In Period	Minutes 36	(G) 71	P.S.I.			
Final Hydrostatic Pressure			(H) 3263	P.S.I.		

WTC-1

WESTERN TESTING CO., INC.
Pressure Data

Date 12/7/82 Test Ticket No. 15751

Recorder No. 6233 Capacity 4000 Location 6271 Ft.

Clock No. --- Elevation 2063 Kelly Bushing Well Temperature 132 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	3283 P.S.I.		Open Tool	12:20A M	
B	First Initial Flow Pressure	71 P.S.I.		First Flow Pressure	60 Mins.	60 Mins.
C	First Final Flow Pressure	71 P.S.I.		Initial Closed-in Pressure	90 Mins.	90 Mins.
D	Initial Closed-in Pressure	71 P.S.I.		Second Flow Pressure	60 Mins.	60 Mins.
E	Second Initial Flow Pressure	71 P.S.I.		Final Closed-in Pressure	30 Mins.	36 Mins.
F	Second Final Flow Pressure	71 P.S.I.				
G	Final Closed-in Pressure	71 P.S.I.				
H	Final Hydrostatic Mud	3263 P.S.I.				

PRESSURE BREAKDOWN

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

Point	Mins.	Press.
P 1	0	71
P 2	5	71
P 3	10	71
P 4	15	71
P 5	20	71
P 6	25	71
P 7	30	71
P 8	35	71
P 9	40	71
P10	45	71
P11	50	71
P12	55	71
P13	60	71
P14		
P15		
P16		
P17		
P18		
P19		
P20		

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

Point	Minutes	Press.
0		71
3		71
6		71
9		71
12		71
15		71
18		71
21		71
24		71
27		71
30		71
33		71
36		71
39		71
42		71
45		71
48		71
51		71
54		71
57		71
60		71

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

Point	Minutes	Press.
0		71
5		71
10		71
15		71
20		71
25		71
30		71
35		71
40		71
45		71
50		71
55		71
60		71

Final Shut-In
Breakdown: 12 Inc. of 3 mins. and a final inc. of 0 Min.

Point	Minutes	Press.
0		71
3		71
6		71
9		71
12		71
15		71
18		71
21		71
24		71
27		71
30		71
33		71
36		71

WTC - 4

CONTINUED NEXT PAGE

WESTERN TESTING CO., INC.
Pressure Data

Date 12/7/82 Test Ticket No. 15751

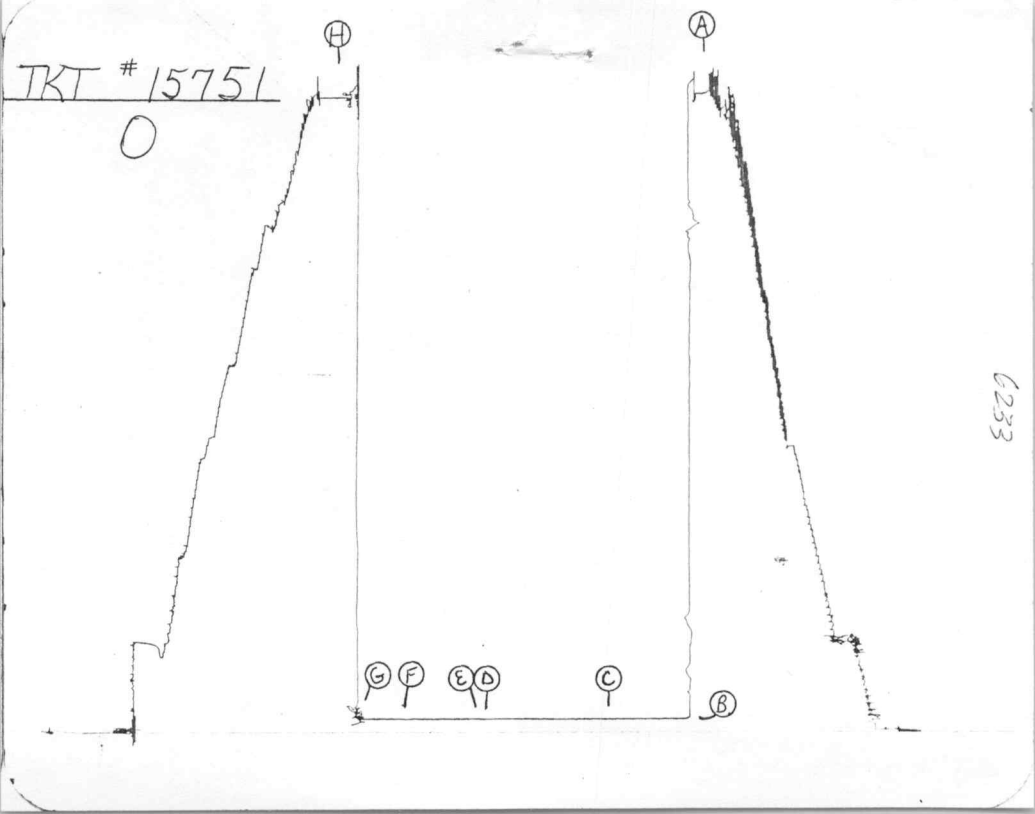
Recorder No. 6233 Capacity 4000 Location 6271 Ft.

Clock No. --- Elevation 2063 Kelly Bushing Well Temperature 132 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	3283 P.S.I.	Open Tool	12:20A M	
B First Initial Flow Pressure	71 P.S.I.	First Flow Pressure	60 Mins	60 Mins.
C First Final Flow Pressure	71 P.S.I.	Initial Closed-in Pressure	90 Mins	90 Mins.
D Initial Closed-in Pressure	71 P.S.I.	Second Flow Pressure	60 Mins	60 Mins.
E Second Initial Flow Pressure	71 P.S.I.	Final Closed-in Pressure	30 Mins	36 Mins.
F Second Final Flow Pressure	71 P.S.I.			
G Final Closed-in Pressure	71 P.S.I.			
H Final Hydrostatic Mud	3263 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: 12 Inc.		Breakdown: 30 Inc.		Breakdown: 12 Inc.		Breakdown: 12 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	71				
P 2		66	71				
P 3		69	71				
P 4		72	71				
P 5		75	71				
P 6		78	71				
P 7		81	71				
P 8		84	71				
P 9		87	71				
P10		90	71				
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							


TKT # 15751
O
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6233

Company Texas El Dorado Oil Company — Lease & Well No. #4-18 Aldridge

Elevation 2063 Kelly Bushing — Formation Viola — Effective Pay --- Ft. — Ticket No. 15752

Date 12/8/82 — Sec. 18 — Twp. 32S — Range 21W — County Clark — State Kansas

Test Approved by Don Glick — Western Representative Darrell Claphan

Formation Test No. 3 — Interval Tested from 6344 ft. to 6369 ft. — Total Depth 6369 ft.

Packer Depth	6339 ft.	Size 6 3/4 in.	
Packer Depth	- ft.	Size -- in.	
Packer Depth	6344 ft.	Size 6 5/8 in.	
Packer Depth	- ft.	Size - in.	

Depth of Selective Zone Set -

Top Recorder Depth (Inside)	6346 ft.	Recorder Number 10980	Cap. 4200
Bottom Recorder Depth (Outside)	6350 ft.	Recorder Number 6233	Cap. 4000
Below Straddle Recorder Depth	- ft.	Recorder Number -	Cap. -

Drilling Contractor Red Tiger Drilling Rig #1 — Drill Collar Length - — I. D. - in.

Mud Type drispac — Viscosity 60 — Weight Pipe Length 1124 — I. D. 2.7 in.

Weight 9.5 — Water Loss 12.4 cc. — Drill Pipe Length 5191 — I. D. 3.8 in.

Chlorides 20,000 P.P.M. — Test Tool Length 29 ft. — Tool Size 4.5 in.

Jars: Make WTC — Serial Number 414 — Anchor Length 25 ft. — Size 5.5 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 4.5 in.

Blow: Initial flow period weak blow throughout - one eighth inch.
Fina flow period weak blow throughout - one fourth inch.

Recovered 300 ft. of gas in pipe

Recovered 62 ft. of slightly gassy oil spotted mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Read Chart #6233

Time Set Packer(s) 3:50 ~~P.M.~~ A.M. — Time Started Off Bottom 6:50 P.M. A.M. — Maximum Temperature 132°

Initial Hydrostatic Pressure			(A)	3363	P.S.I.	
Initial Flow Period	Minutes 60		(B)	47	P.S.I. to (C)	47 P.S.I.
Initial Closed In Period	Minutes 30		(D)	85	P.S.I.	
Final Flow Period	Minutes 60		(E)	69	P.S.I. to (F)	69 P.S.I.
Final Closed In Period	Minutes 30		(G)	110	P.S.I.	
Final Hydrostatic Pressure			(H)	3353	P.S.I.	

WT

WESTERN TESTING CO., INC.
Pressure Data

Date 12/8/82 Test Ticket No. 15752

Recorder No. 6233 Capacity 4000 Location 6350 Ft.

Clock No. --- Elevation 2063 Kelly Bushing Well Temperature 132 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	3363 P.S.I.	Open Tool		3:50A M	
B	First Initial Flow Pressure	47 P.S.I.	First Flow Pressure		60 Mins.	60 Mins.
C	First Final Flow Pressure	47 P.S.I.	Initial Closed-in Pressure		30 Mins.	30 Mins.
D	Initial Closed-in Pressure	85 P.S.I.	Second Flow Pressure		60 Mins.	60 Mins.
E	Second Initial Flow Pressure	69 P.S.I.	Final Closed-in Pressure		30 Mins.	30 Mins.
F	Second Final Flow Pressure	69 P.S.I.				
G	Final Closed-in Pressure	110 P.S.I.				
H	Final Hydrostatic Mud	3353 P.S.I.				

PRESSURE BREAKDOWN

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

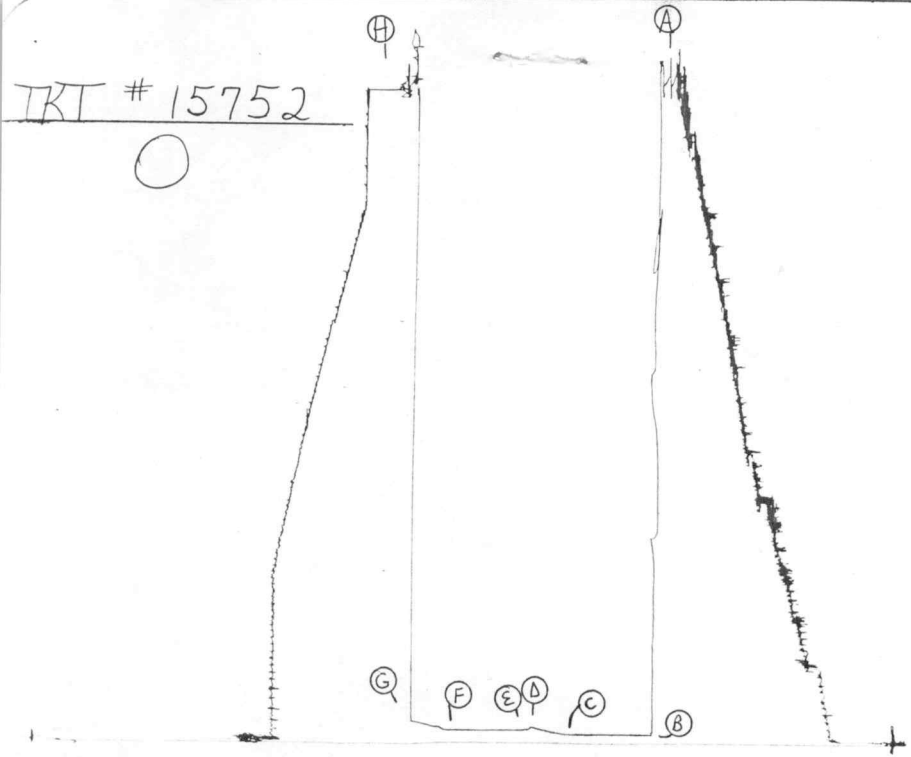
Initial Shut-In
Breakdown: 10 Inc. of 3 mins. and a final inc. of 0 Min.

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

Final Shut-In
Breakdown: 10 Inc. of 3 mins. and a final inc. of 0 Min.

Point	First Flow Pressure Point Mins.	Press.	Initial Shut-In Point Minutes	Press.	Second Flow Pressure Point Minutes	Press.	Final Shut-In Point Minutes	Press.
P 1	0	47	0	47	0	69	0	69
P 2	5	47	3	48	5	69	3	71
P 3	10	47	6	51	10	69	6	85
P 4	15	47	9	55	15	69	9	86
P 5	20	47	12	59	20	69	12	88
P 6	25	47	15	63	25	69	15	93
P 7	30	47	18	68	30	69	18	97
P 8	35	47	21	73	35	69	21	101
P 9	40	47	24	77	40	69	24	104
P10	45	47	27	81	45	69	27	107
P11	50	47	30	85	50	69	30	110
P12	55	47			55	69		
P13	60	47			60	69		
P14								
P15								
P16								
P17								
P18								
P19								
P20								

IKT # 15752



6233

Company Texas - El Dorado Oil Company — Lease & Well No. #4-18 Aldridge

Elevation 2062 Kelly Bushing — Formation Viola — Effective Pay --- Ft. — Ticket No. 18325

Date 12/9/82 — Sec. 18 — Twp. 32S — Range 21W — County Clark — State Kansas

Test Approved by Klaus Kallmai — Western Representative Rod Tritt

Formation Test No. 4 — Interval Tested from 6369 ft. to 6400 ft. — Total Depth 6400 ft.

Packer Depth 6364 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Packer Depth 6369 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 6370 ft. — Recorder Number 2606 — Cap. 4150

Bottom Recorder Depth (Outside) 6373 ft. — Recorder Number 4332 — Cap. 4200

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

Drilling Contractor Red Tiger Drlg. Rig #1 — Drill Collar Length - — I. D. - in.

Mud Type drispac — Viscosity 67 — Weight Pipe Length 1125 — I. D. 2½ in.

Weight 9.8 — Water Loss 16.8 cc. — Drill Pipe Length 5216 — I. D. 3.8 in.

Chlorides 22,000 P.P.M. — Test Tool Length 28 ft. — Tool Size 5½OD in.

Jars: Make WTC — Serial Number 408 — Anchor Length 31 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: Very weak blow (two inches into water) on initial flow period. Very weak blow depleating to no blow in thirty minutes on final flow period

Recovered 60 ft. of drilling mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 5:20 A.M. ~~P.M.~~ — Time Started Off Bottom 8:20 A.M. P.M. — Maximum Temperature 133°

Initial Hydrostatic Pressure			(A)	3392	P.S.I.	
Initial Flow Period	Minutes 60	(B)	54	P.S.I. to (C)	54	P.S.I.
Initial Closed In Period	Minutes 30	(D)	55	P.S.I.		
Final Flow Period	Minutes 60	(E)	56	P.S.I. to (F)	56	P.S.I.
Final Closed In Period	Minutes 30	(G)	70	P.S.I.		
Final Hydrostatic Pressure			(H)	3388	P.S.I.	

WT

WESTERN-TESTING CO., INC.
Pressure Data

Date 12/9/82 Test Ticket No. 18325

Recorder No. 2606 Capacity 4150 Location 6370 Ft.

Clock No. -- Elevation 2062 Kelly Bushing Well Temperature 133 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	3392 P.S.I.	Open Tool		5:20A M	
B	First Initial Flow Pressure	54 P.S.I.	First Flow Pressure		60 Mins.	60 Mins.
C	First Final Flow Pressure	54 P.S.I.	Initial Closed-in Pressure		30 Mins.	30 Mins.
D	Initial Closed-in Pressure	55 P.S.I.	Second Flow Pressure		60 Mins.	60 Mins.
E	Second Initial Flow Pressure	56 P.S.I.	Final Closed-in Pressure		30 Mins.	30 Mins.
F	Second Final Flow Pressure	56 P.S.I.				
G	Final Closed-in Pressure	70 P.S.I.				
H	Final Hydrostatic Mud	3388 P.S.I.				

PRESSURE BREAKDOWN

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

Initial Shut-In
Breakdown: 10 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: 10 Inc. of 3 mins. and a final inc. of 0 Min.

Point	First Flow Pressure Mins.	Press.	Initial Shut-In Minutes	Press.	Second Flow Pressure Minutes	Press.	Final Shut-In Minutes	Press.
P 1	0	54	0	54	0	56	0	56
P 2	5	54	3	54	5	56	3	56
P 3	10	54	6	54	10	56	6	57
P 4	15	54	9	54	15	56	9	58
P 5	20	54	12	54	20	56	12	59
P 6	25	54	15	54	25	56	15	60
P 7	30	54	18	55	30	56	18	62
P 8	35	54	21	55	35	56	21	64
P 9	40	54	24	55	40	56	24	66
P10	45	54	27	55	45	56	27	68
P11	50	54	30	55	50	56	30	70
P12	55	54			55	56		
P13	60	54			60	56		
P14								
P15								
P16								
P17								
P18								
P19								
P20								

2606 DST #4

IKT #18325

I

