



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No 18540

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

Elevation 2025 GL Formation Simpson sd. Eff. Pay Ft.

District GT Bend Date 5-2-93 Customer Order No.

COMPANY NAME Pin Tail Petroleum

ADDRESS 412 E. Douglas St 1 Wichita, Ks, 67202

LEASE AND WELL NO. Campbell #2 COUNTY Pawnee STATE Ks Sec. 7 Twp 23 Rge 15

Mail Invoice To SAME Co. Name #2 Campbell Address No. Copies Requested 109

Mail Charts To SAME Address No. Copies Requested 109

Formation Test No. 1 Interval Tested From 4068 ft. to 4124 ft. Total Depth 4124 ft.

Packer Depth 4063 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth 4068 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4081 ft. Recorder Number 10270 Cap. 4150

Bottom Recorder Depth (Outside) 4084 ft. Recorder Number 13550 Cap. 4175

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

Drilling Contractor MALLARD Delg Drill Collar Length 240 I. D. 2.2 in.

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

Weight 9 Water Loss 8.4 cc. Drill Pipe Length 3808 I. D. 3.8 in.

Chlorides 13000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.

Jars: Make - Serial Number - Anchor Length 56 ft. Size 5 1/2 in.

Did Well Flow? Reversed Out 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: IF- FF-

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Chlorides P.P.M. Sample Jars used

Remarks: Rig Broke down AFTER STARTING IN Hole w/TOOL

Time On Location 10:00 A.M. Time Pick Up Tool 12:15 P.M. Time Off Location P.M.

Time Set Packer(s) A.M. Time Started Off Bottom P.M. Maximum Temperature

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

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

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

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

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

Final Hydrostatic Pressure (H) 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 tests. 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 Bill Shepherd Signature of Customer or his authorized representative

Western Representative Ray Schwager Thank you

FIELD INVOICE

Table with 2 columns: Item Name and Amount. Items include Open Hole Test, Misrun, Straddle Test, Jars, Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Mileage, Fluid Sampler, Extra Charts, Insurance, Telecopier, and TOTAL.

KT 18540

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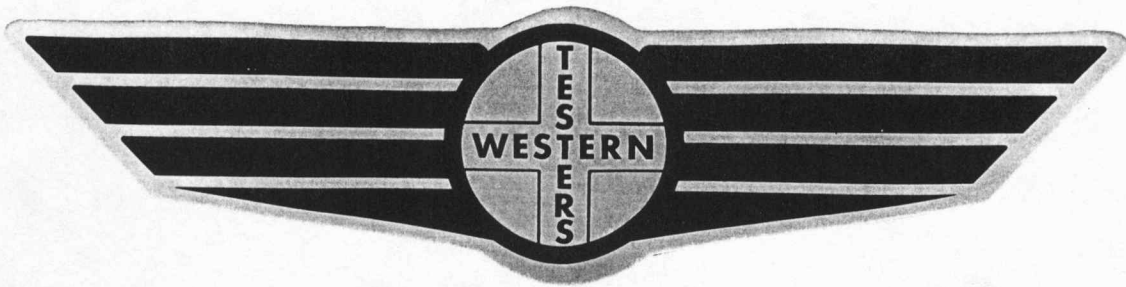
OST#1
10270

KT 18540

0

OST#1
13550

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone **1 - 800-688-7021**

DST REPORT

GENERAL INFORMATION

DATE : 5/2/93	TICKET : 18540
CUSTOMER : PINTAIL PETROLEUM	LEASE : CAMPBELL
WELL : #2 TEST: 1	GEOLOGIST: BILL SHEPHERD
ELEVATION: 2025 G.L.	FORMATION: SIMPSON SAND
SECTION : 7	TOWNSHIP : 23S
RANGE : 15W COUNTY: PAWNEE	STATE : KS
GAUGE SN#: 10270 RANGE : 4150	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4068.00 ft	TO: 4124.00 ft	TVD: 4124.0 ft
DEPTH OF SELECTIVE ZONE:		TEST TYPE: OIL
DEPTH OF RECORDERS: 4081.0 ft	4084.0 ft	
TEMPERATURE: 0.0		

DRILL COLLAR LENGTH: 240.0 ft	I.D.:	2.200 in
WEIGHT PIPE LENGTH : 0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH : 3808.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH : 20.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH : 56.0 ft	ANCHOR SIZE:	5.500 in
SURFACE CHOKE SIZE : 0.750 in	BOTTOM CHOKE SIZE:	0.750 in
MAIN HOLE SIZE : 7.875 in	TOOL JOINT SIZE :	4.5FH
PACKER DEPTH: 4063.0 ft	SIZE:	6.630 in
PACKER DEPTH: 4068.0 ft	SIZE:	6.630 in
PACKER DEPTH: 0.0 ft	SIZE:	0.000 in
PACKER DEPTH: 0.0 ft	SIZE:	0.000 in

MUD INFORMATION

DRILLING CON. : MALLARD DRILG	
MUD TYPE : CHEMICAL	VISCOSITY : 48.00 cp
WEIGHT : 9.000 ppg	WATER LOSS: 8.400 cc
CHLORIDES : 13000 ppm	
JARS-MAKE :	SERIAL NUMBER:
DID WELL FLOW?: NO	REVERSED OUT?: NO

COMMENTS

Comment

MISRUN, RIG BROKE DOWN AFTER STARTING IN HOLE W/
TOOL.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
No Data Entered					

RATE INFORMATION

OIL VOLUME:	0.0000	STB			
GAS VOLUME:	0.0000	SCF		TOTAL FLOW TIME:	No Events Created
MUD VOLUME:	0.0000	STB		AVERAGE OIL RATE:	0.0000 STB/D
WATER VOLUME:	0.0000	STB		AVERAGE WATER RATE:	0.0000 STB/D
TOTAL FLUID :	0.0000	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 0.00

Description	Duration	p1	p End
INITIAL FLOW	0.00	0.00	0.00
INITIAL SHUT-IN	0.00		0.00
FINAL FLOW	0.00	0.00	0.00
FINAL SHUT-IN	0.00		0.00

FINAL HYDROSTATIC PRESSURE: 0.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 0.00

Description	Duration	p1	p End
INITIAL FLOW	0.00	0.00	0.00
INITIAL SHUT-IN	0.00		0.00

FINAL HYDROSTATIC PRESSURE: 0.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 5/2/93	TICKET : 18540
CUSTOMER : PINTAIL PETROLEUM	LEASE : CAMPBELL
WELL : #2 TEST: 1	GEOLOGIST: BILL SHEPHERD
ELEVATION: 2025 G.L.	FORMATION: SIMPSON SAND
SECTION : 7	TOWNSHIP : 23S
RANGE : 15W COUNTY: PAWNEE	STATE : KS
GAUGE SN#: 10270 RANGE : 4150	CLOCK : 12

INITIAL FLOW

<u>Time</u> <u>(min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	0.00	0.00

INITIAL SHUT IN

<u>Time</u> <u>(min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
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FINAL FLOW

<u>Time</u> <u>(min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	0.00	0.00

FINAL SHUT IN

<u>Time</u> <u>(min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
			No Data Entered



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 18541

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

Elevation 2025 GL Formation Simpson Ed. Eff. Pay - Ft.

District GT Bend Date 5-3-93 Customer Order No -

COMPANY NAME PINTAIL Petroleum

ADDRESS 412 E Douglas St. 1 Wichita, KS 67202

LEASE AND WELL NO. Campbell #2 COUNTY Pawnee STATE KS Sec. 7 Twp. 23 Rge. 15 W

Mail Invoice To SAME Co. Name H J Campbell Address No. Copies Requested 100

Mail Charts To SAME Address No. Copies Requested 100

Formation Test No. 2 Interval Tested From 4068 ft. to 4124 ft. Total Depth 4124 ft.

Packer Depth 4063 ft. Size 6 7/8 in. Packer Depth - ft. Size - in.

Packer Depth 4068 ft. Size 6 7/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4081 ft. Recorder Number 10270 Cap. 4150

Bottom Recorder Depth (Outside) 4084 ft. Recorder Number 13550 Cap. 4125

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

Drilling Contractor MALLARD DRG Drill Collar Length 240 I. D. 2.2 in.

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

Weight 9 Water Loss 8.4 cc. Drill Pipe Length 3808 I. D. 3.8 in.

Chlorides 13,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.

Jars: Make - Serial Number - Anchor Length 56 ft. Size 5 1/2 in.

Did Well Flow? - Reversed Out - 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 IF FF

Recovered - ft. of

Recovered - ft. of

Recovered - ft. of MISRUN

Recovered - ft. of

Recovered - ft. of

Chlorides - P.P.M. Sample Jars used - Remarks: HIT BRIDGE, CAME BACK OUT of HOLE TO condition mud

MAY 07 1993

Time On Location 7:00 A.M. Time Pick Up Tool 7:30 P.M. Time Off Location - P.M.

Time Set Packer(s) - A.M. Time Started Off Bottom - A.M. Maximum Temperature -

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

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

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

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

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

Final Hydrostatic Pressure (H) - 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 Bill Shepherd Signature of Customer or his authorized representative

Western Representative Ray Schwager THANK YOU

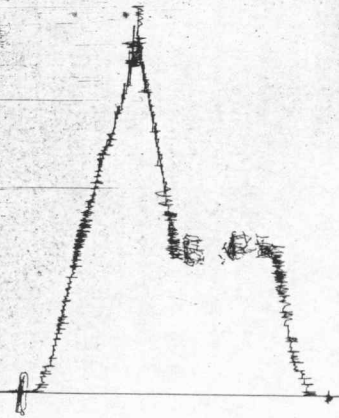
FIELD INVOICE

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

JK+18541

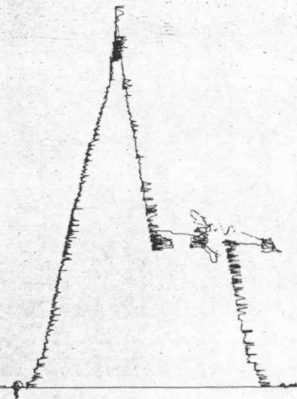
J

0374
10270



JK+18541
Bill Raymond

0374
10550



FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 800-688-7021

DST REPORT

GENERAL INFORMATION

DATE	: 5/3/93	TICKET	: 18541
CUSTOMER	: PINTAIL PETROLEUM	LEASE	: CAMPBELL
WELL	: #2	TEST:	2
ELEVATION:	2025 G.L.	GEOLOGIST:	BILL SHEPHERD
SECTION	: 7	FORMATION:	SIMPSON SAND
RANGE	: 15W	COUNTY:	PAWNEE
GAUGE SN#:	10270	RANGE	: 4150
		STATE	: KS
		CLOCK	: 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	4068.00 ft	TO:	4124.00 ft	TVD:	4124.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	4081.0 ft		4084.0 ft		
TEMPERATURE:	0.0				
DRILL COLLAR LENGTH:	240.0 ft	I.D.:		2.200 in	
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:		0.000 in	
DRILL PIPE LENGTH :	3808.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :		5.500 in	
ANCHOR LENGTH :	56.0 ft	ANCHOR SIZE:		5.500 in	
SURFACE CHOKE SIZE :	0.750 in	BOTTOM CHOKE SIZE:		0.750 in	
MAIN HOLE SIZE :	7.875 in	TOOL JOINT SIZE :		4.5FH	
PACKER DEPTH:	4063.0 ft	SIZE:		6.630 in	
PACKER DEPTH:	4068.0 ft	SIZE:		6.630 in	
PACKER DEPTH:	0.0 ft	SIZE:		0.000 in	
PACKER DEPTH:	0.0 ft	SIZE:		0.000 in	

MUD INFORMATION

DRILLING CON. :	MALLARD DRILG	VISCOSITY :	48.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	8.400 cc
WEIGHT :	9.000 ppg	SERIAL NUMBER:	
CHLORIDES :	13000 ppm	REVERSED OUT?:	NO
JARS-MAKE :			
DID WELL FLOW?:	NO		

COMMENTS

Comment

MISRUN, HIT BRIDGE CAME BACKOUT OF HOLE TO
CONDITION MUD.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	%	%	%	%	Comments
Oil	Gas	Water	Mud		
No Data Entered					

RATE INFORMATION

OIL VOLUME:	0.0000	STB			
GAS VOLUME:	0.0000	SCF			
MUD VOLUME:	0.0000	STB			
WATER VOLUME:	0.0000	STB			
TOTAL FLUID :	0.0000	STB			
			TOTAL FLOW TIME:	No Events Created	
			AVERAGE OIL RATE:	0.0000 STB/D	
			AVERAGE WATER RATE:	0.0000 STB/D	

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE:	0.00			
Description	Duration	p1	p End	
INITIAL FLOW	0.00	0.00	0.00	
INITIAL SHUT-IN	0.00		0.00	
FINAL FLOW	0.00	0.00	0.00	
FINAL SHUT-IN	0.00		0.00	
FINAL HYDROSTATIC PRESSURE:	0.00			

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE:	0.00			
Description	Duration	p1	p End	
INITIAL FLOW	0.00	0.00	0.00	
INITIAL SHUT-IN	0.00		0.00	
FINAL HYDROSTATIC PRESSURE:	0.00			

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 5/3/93	TICKET : 18541
CUSTOMER : PINTAIL PETROLEUM	LEASE : CAMPBELL
WELL : #2 TEST: 2	GEOLOGIST: BILL SHEPHERD
ELEVATION: 2025 G.L.	FORMATION: SIMPSON SAND
SECTION : 7	TOWNSHIP : 23S
RANGE : 15W COUNTY: PAWNEE	STATE : KS
GAUGE SN#: 10270 RANGE : 4150	CLOCK : 12

INITIAL FLOW

<u>Time</u> <u>(min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	0.00	0.00

INITIAL SHUT IN

<u>Time</u> <u>(min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
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FINAL FLOW

<u>Time</u> <u>(min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	0.00	0.00

FINAL SHUT IN

<u>Time</u> <u>(min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
			No Data Entered



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

LAST No 18542

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

Elevation 2025 GL Formation Simpson sd Eff. Pay - Ft.

District GT. Bend Date 5-4-93 Customer Order No. -

COMPANY NAME PINTAIL Petroleum
ADDRESS 412 E. Douglas St. 1 Wichita, KS 67202
LEASE AND WELL NO. Campbell #2 COUNTY Pawnee STATE KS Sec. 7 Twp. 23' Rge. 15"
Mail Invoice To SAME Co. Name H J Campbell Address No. Copies Requested Reg
Mail Charts To SAME Address No. Copies Requested Reg

Formation Test No. 3 Interval Tested From 4068 ft. to 4124 ft. Total Depth 4124 ft.
Packer Depth 4063 ft. Size 6 7/8 in. Packer Depth - ft. Size - in.
Packer Depth 4068 ft. Size 6 7/8 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4081 ft. Recorder Number 10270 Cap. 4150
Bottom Recorder Depth (Outside) 4084 ft. Recorder Number 13550 Cap. 4175
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor MALLARD ORLA Drill Collar Length 240 I. D. 2.2 in.
Mud Type CHEMICAL Viscosity 52 Weight Pipe Length - I. D. - in.
Weight 9.1 Water Loss 12 cc. Drill Pipe Length 3808 I. D. 3.8 in.
Chlorides 13000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.
Jars: Make - Serial Number - Anchor Length 56 ft. Size 5 1/2 in.
Did Well Flow? - Reversed Out - 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: IF - WEAK Blow throughout 1" to 2" Blow
FF - WEAK Blow throughout 2" Blow

Recovered 125 ft. of Oil spotted Mud
Recovered - ft. of
Recovered - ft. of
Recovered - ft. of
Recovered - ft. of

MAY 07 1993

Chlorides - P.P.M. Sample Jars used 3 Remarks:

Time On Location 12:00 A.M. Time Pick Up Tool 5:45 A.M. Time Off Location - A.M.
Time Set Packer(s) 7:40 A.M. Time Started Off Bottom 10:30 A.M. Maximum Temperature 108°
Initial Hydrostatic Pressure (A) 1944 P.S.I.
Initial Flow Period Minutes 30 (B) 84 P.S.I. to (C) 74 P.S.I.
Initial Closed In Period Read Minutes 20 (D) 622 P.S.I.
Final Flow Period Minutes 30 (E) 95 P.S.I. to (F) 89 P.S.I.
Final Closed In Period 13550 Minutes 90 (G) 831 P.S.I.
Final Hydrostatic Pressure (H) 1944 P.S.I.

COMPANY TERMS

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Test Approved By Bill Shepherd Signature of Customer or his authorized representative
Western Representative Ray Schwagn Thank you

FIELD INVOICE

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

WESTERN TESTING CO., INC.

Pressure Data

Date 5-4-50

Test Ticket No. 1854

Recorder No. 12550

Capacity _____ Location _____ Ft.

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1958</u> P.S.I.	_____ M	_____	_____
B First Initial Flow Pressure	<u>99</u> P.S.I.	First Flow Pressure	Mins. <u>50</u>	Mins. _____
C First Final Flow Pressure	<u>82</u> P.S.I.	Initial Closed-in Pressure	Mins. <u>2</u>	Mins. _____
D Initial Closed-in Pressure	<u>629</u> P.S.I.	Second Flow Pressure	Mins. <u>50</u>	Mins. _____
E Second Initial Flow Pressure	<u>136</u> P.S.I.	Final Closed-in Pressure	Mins. <u>90</u>	Mins. _____
F Second Final Flow Pressure	<u>102</u> P.S.I.			
G Final Closed-in Pressure	<u>840</u> P.S.I.			
H Final Hydrostatic Mud	<u>1958</u> 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 0	<u>99</u> OK	0	<u>82</u>	0	<u>136</u> OK	0	<u>102</u>
P 2 5	<u>99</u>	3	<u>218</u>	5	<u>119</u>	3	<u>174</u>
P 3 10	<u>93</u>	6	<u>350</u>	10	<u>111</u>	6	<u>267</u>
P 4 15	<u>87</u>	9	<u>418</u>	15	<u>104</u>	9	<u>357</u>
P 5 20	<u>85</u>	12	<u>508</u>	20	<u>100</u>	12	<u>429</u>
P 6 25	<u>84</u>	15	<u>546</u>	25	<u>970</u> OK	15	<u>489</u>
P 7 30	<u>82</u>	18	<u>602</u>	30	<u>102</u>	18	<u>541</u>
P 8 35		21	<u>629</u>	35		21	<u>574</u>
P 9 40		24		40		24	<u>606</u>
P10 45		27		45		27	<u>632</u>
P11 50		30		50		30	<u>652</u>
P12 55		33		55		33	<u>672</u>
P13 60		36		60		36	<u>687</u>
P14 65		39		65		39	<u>708</u>
P15 70		42		70		42	<u>727</u>
P16 75		45		75		45	<u>742</u>
P17 80		48		80		48	<u>754</u>
P18 85		51		85		51	<u>764</u>
P19 90		54		90		54	<u>773</u>
P20 95		57		95		57	<u>780</u>
100		60		100		60	<u>790</u>

WESTERN TESTING CO., INC.

Pressure Data

Date _____

Test Ticket No. 18542

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 _____ mins. and a		of _____ mins. and a		of _____ mins. and a		of _____ mins. and a	
final inc. of _____ Min.		final inc. of _____ Min.		final inc. of _____ Min.		final inc. of _____ Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	105	63		105		63	299
P 2	110	66		110		66	805
P 3	115	69		115		69	812
P 4	120	72		120		72	819
P 5	125	75		125		75	826
P 6	130	78		130		78	833
P 7	135	81		135		81	837
P 8	140	84		140		84	835
P 9	145	87		145		87	838
P10	150	90		150		90	840
P11	155	93		155		93	
P12	160	96		160		96	
P13	165	99		165		99	
P14	170	102		170		102	
P15	175	105		175		105	
P16	180	108		180		108	
P17	185	111		185		111	
P18	190	114		190		114	
P19	195	117		195		117	
P20	200	120		200		120	

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone **1 - 800-688-7021**

DST REPORT

GENERAL INFORMATION

DATE : 5/4/93
CUSTOMER : PINTAIL PETROLEUM
WELL : #2 TEST: 3
ELEVATION: 2025 G.L.
SECTION : 7
RANGE : 15W COUNTY: PAWNEE
GAUGE SN#: 10270 RANGE : 4150
TICKET : 18542
LEASE : CAMPBELL
GEOLOGIST: BILL SHEPHERD
FORMATION: SIMPSON SAND
TOWNSHIP : 23S
STATE : KS
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4068.00 ft TO: 4124.00 ft TVD: 4124.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 4081.0 ft 4084.0 ft
TEMPERATURE: 0.0
DRILL COLLAR LENGTH: 240.0 ft I.D.: 2.200 in
WEIGHT PIPE LENGTH : 0.0 ft I.D.: 0.000 in
DRILL PIPE LENGTH : 3808.0 ft I.D.: 3.800 in
TEST TOOL LENGTH : 20.0 ft TOOL SIZE : 5.500 in
ANCHOR LENGTH : 56.0 ft ANCHOR SIZE: 5.500 in
SURFACE CHOKE SIZE : 0.750 in BOTTOM CHOKE SIZE: 0.750 in
MAIN HOLE SIZE : 7.875 in TOOL JOINT SIZE : 4.5FH
PACKER DEPTH: 4063.0 ft SIZE: 6.630 in
PACKER DEPTH: 4068.0 ft SIZE: 6.630 in
PACKER DEPTH: 0.0 ft SIZE: 0.000 in
PACKER DEPTH: 0.0 ft SIZE: 0.000 in

MUD INFORMATION

DRILLING CON. : MALLARD DRILG
MUD TYPE : CHEMICAL VISCOSITY : 52.00 cp
WEIGHT : 9.100 ppg WATER LOSS: 12.000 cc
CHLORIDES : 13000 ppm
JARS-MAKE :
DID WELL FLOW?: NO SERIAL NUMBER:
REVERSED OUT?: NO

COMMENTS

Comment

WEAK BLOW THROUGHOUT 1" TO 2" BLOW ON INITIAL FLOW PERIOD. WEAK BLOW THROUGHOUT 2" BLOW ON FINAL FLOW PERIOD.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
125.0	1.0	0.0	0.0	99.0	OIL SPOTTED MUD

RATE INFORMATION

OIL VOLUME: 0.0059 STB	TOTAL FLOW TIME: 60.0000 min.
GAS VOLUME: 0.0000 SCF	AVERAGE OIL RATE: 14.1041 STB/D
MUD VOLUME: 0.5818 STB	AVERAGE WATER RATE: 0.0000 STB/D
WATER VOLUME: 0.0000 STB	
TOTAL FLUID : 0.5877 STB	

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1944.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	84.00	74.00
INITIAL SHUT-IN	20.00		622.00
FINAL FLOW	30.00	95.00	84.00
FINAL SHUT-IN	90.00		831.00

FINAL HYDROSTATIC PRESSURE: 1944.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1938.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	99.00	82.00
INITIAL SHUT-IN	21.00		629.00
FINAL FLOW	30.00	136.00	102.00
FINAL SHUT-IN	90.00		840.00

FINAL HYDROSTATIC PRESSURE: 1938.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 5/4/93	TICKET : 18542
CUSTOMER : PINTAIL PETROLEUM	LEASE : CAMPBELL
WELL : #2 TEST: 3	GEOLOGIST: BILL SHEPHERD
ELEVATION: 2025 G.L.	FORMATION: SIMPSON SAND
SECTION : 7	TOWNSHIP : 23S
RANGE : 15W COUNTY: PAWNEE	STATE : KS
GAUGE SN#: 10270 RANGE : 4150	CLOCK : 12

INITIAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	99.00	99.00
5.00	99.00	0.00
10.00	93.00	-6.00
15.00	87.00	-6.00
20.00	85.00	-2.00
25.00	84.00	-1.00
30.00	82.00	-2.00

INITIAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	218.00	218.00	0.00
6.00	350.00	132.00	0.00
9.00	418.00	68.00	0.00
12.00	505.00	87.00	0.00
15.00	546.00	41.00	0.00
18.00	602.00	56.00	0.00
21.00	629.00	27.00	0.00

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	136.00	136.00
5.00	119.00	-17.00
10.00	111.00	-8.00
15.00	104.00	-7.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

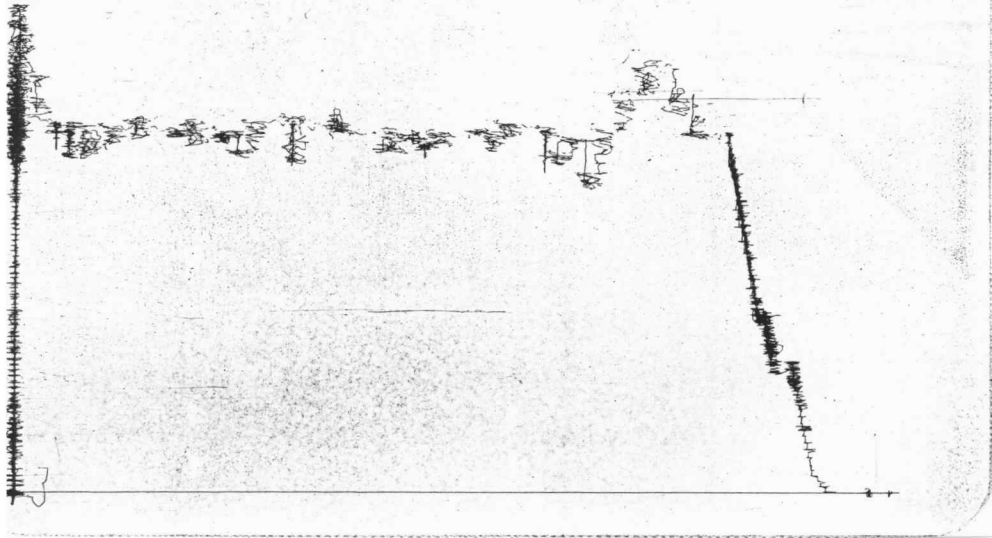
<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
20.00	100.00	-4.00
25.00	97.00	-3.00
30.00	102.00	5.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	174.00	174.00	0.00
6.00	267.00	93.00	0.00
9.00	357.00	90.00	0.00
12.00	429.00	72.00	0.00
15.00	489.00	60.00	0.00
18.00	541.00	52.00	0.00
21.00	574.00	33.00	0.00
24.00	606.00	32.00	0.00
27.00	632.00	26.00	0.00
30.00	653.00	21.00	0.00
33.00	673.00	20.00	0.00
36.00	687.00	14.00	0.00
39.00	708.00	21.00	0.00
42.00	727.00	19.00	0.00
45.00	742.00	15.00	0.00
48.00	754.00	12.00	0.00
51.00	764.00	10.00	0.00
54.00	773.00	9.00	0.00
57.00	780.00	7.00	0.00
60.00	790.00	10.00	0.00
63.00	799.00	9.00	0.00
66.00	805.00	6.00	0.00
69.00	813.00	8.00	0.00
72.00	819.00	6.00	0.00
75.00	826.00	7.00	0.00
78.00	829.00	3.00	0.00
81.00	832.00	3.00	0.00
84.00	835.00	3.00	0.00
87.00	838.00	3.00	0.00
90.00	840.00	2.00	0.00

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