WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No. 20205

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

Elevation _____ Formation Miss _____ Eff. Pay _____ Ft.

District Augusta Date 12-8-93 Customer Order No. _____

COMPANY NAME ZPC Petroleum, Inc

ADDRESS 9319 East Harry, Suite 122 Wichita Ks 67207

LEASE AND WELL NO. KSU #1 COUNTY Ness STATE Ks Sec. 23 Twp. 16S Rge. 25W

Mail Invoice To ~~Same~~ Emphasis KSU#1 No. Copies Requested 1
Co. Name Address

Mail Charts To ~~Same~~ Team Key Emphasis Address No. Copies Requested 5

Formation Test No. DST #1 Interval Tested From 4478 ft. to 4535 ft. Total Depth 4535 ft.

Packer Depth 4473 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.
Packer Depth 4478 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.
Depth of Selective Zone Set

Top Recorder Depth (Inside) 4529 ft. Recorder Number 10979 Cap. 4100
Bottom Recorder Depth (Outside) 4532 ft. Recorder Number 3354 Cap. 4200
Below Straddle Recorder Depth — ft. Recorder Number — Cap. —

Drilling Contractor Emphasis Rig 7
Mud Type Chem Viscosity 48
Weight 9.4 Water Loss 10.2 cc.
Chlorides 4000 P.P.M.
Jars: Make — Serial Number —
Did Well Flow? — Reversed Out —

Drill Collar Length 30 I. D. 2.25 in.
Weight Pipe Length — I. D. — in.
Drill Pipe Length 4428 I. D. 3.8 in.
Test Tool Length 20 ft. Tool Size 5 1/2 OD in.
Anchor Length 57 ± 31 4 1/2 FH Size 5 1/2 OD - 4 1/2 FH 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 FH in.

Blow: Very Weak blow top of bucket on (IFP) Very weak blow surface blow (FFP)

Recovered 10 ft. of Oil Cut mud 20% O.C 80% mud
Recovered 6' ft. of free Oil 40% gravity at 60°
Recovered ft. of
Recovered ft. of
Recovered ft. of
Chlorides P.P.M. Sample Jars used 2 Remarks:

Time On Location 7:00 A.M. P.M. Time Pick Up Tool 9:00 A.M. P.M. Time Off Location A.M. P.M.
Time Set Packer(s) 10:00 A.M. P.M. Time Started Off Bottom 1:00 A.M. P.M. Maximum Temperature 119°F

Initial Hydrostatic Pressure			(A)	2265	P.S.I.	
Initial Flow Period	Minutes 30		(B)	75	P.S.I. to (C)	75 P.S.I.
Initial Closed In Period	Minutes 60		(D)	485	P.S.I.	
Final Flow Period	Minutes 30		(E)	85	P.S.I. to (F)	85 P.S.I.
Final Closed In Period	Minutes 60		(G)	390	P.S.I.	
Final Hydrostatic Pressure			(H)	2255	P.S.I.	

10979

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 _____
Signature of Customer or his authorized representative

Western Representative Jeffrey A Rutter

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 12-8-93 Test Ticket No. 20205

Recorder No. 10979 Capacity Location Pc

Clock No. Elevation Well Temperature °F

Point	Pressure		Time Given	Time Computed
Initial Hydrostatic Mud	2291 P.S.I.	Open Tool	M	
First Initial Flow Pressure	59 P.S.I.	First Flow Pressure	30 Mins.	Mins.
First Final Flow Pressure	59 P.S.I.	Initial Closed-in Pressure	60 Mins.	63 Mins.
Initial Closed-in Pressure	471 P.S.I.	Second Flow Pressure	30 Mins.	Mins.
Second Initial Flow Pressure	~~59~~ 65 P.S.I.	Final Closed-in Pressure	60 Mins.	Mins.
Second Final Flow Pressure	59 P.S.I.			
Final Closed-in Pressure	305 P.S.I.			
Final Hydrostatic Mud	2254 P.S.I.			

PRESSURE BREAKDOWN

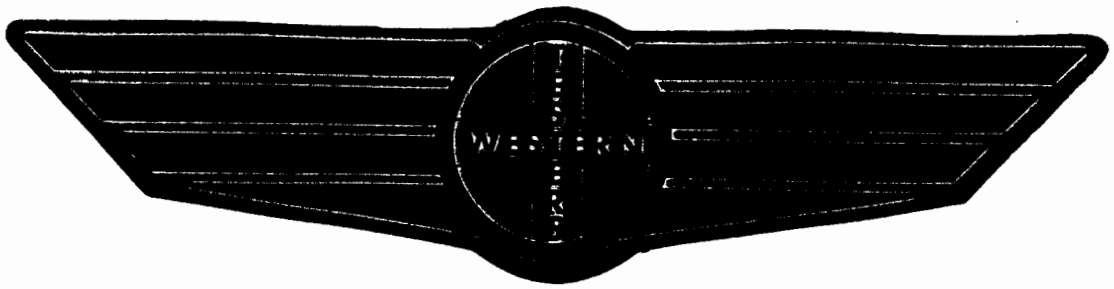
First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: Inc.		Breakdown: Inc.		Breakdown: Inc.		Breakdown: Inc.	
of mins. and a		of mins. and a		of mins. and a		of mins. and a	
final inc. of Min.		final inc. of Min.		final inc. of Min.		final inc. of Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
1 0	59	C 0	59	E 0		0	59
2 5		3	59	5	65	3	60
3 10		6	62	10	61	6	63
4 15		9	67	15	59	9	68
5 20		12	74	20		12	74
6 25		15	88	25		15	84
7 30	59	18	107	F 30	59	18	95
8 35		21	128	35		21	106
9 40		24	149	40		24	118
10 45		27	172	45		27	132
11 50		30	201	50		30	146
12 55		33	226	55		33	157
13 60		36	255	60		36	176
14 65		39	281	65		39	188
15 70		42	308	70		42	201
16 75		45	337	75		45	212
17 80		48	362	80		48	236
18 85		51	387	85		51	254
19 90		54	408	90		54	268
20 95		57	431	95		57	285
100		60	452	100		60	305

WTC-3

ORIGINAL

FORMATION TEST REPORT

KCC
FEB 2 1 1995



Home Office:
P.O. Box 1599

Wichita, Kansas 67201
Phone 1-800-688-7021

COMPANY ZPC PETROLEUM, INC.
LEASE & WELL NO. #1 KSU
SEC. 23 TWP. 16S RGE. 25W TEST NO. 1 DATE 12/8/93

API#15-135-23794

DST REPORT

GENERAL INFORMATION

DATE	: 12/08/93	TICKET	: 20205
CUSTOMER	: ZPC PETROLEUM INC.	LEASE	: KSU
WELL	: #1 TEST: 1	GEOLOGIST	: JEB STEWART
ELEVATION:		FORMATION	: MISSISSIPPI
SECTION	: 23	TOWNSHIP	: 16S
RANGE	: 25W COUNTY: NESS	STATE	: KS
GAUGE SN#:	10979 RANGE : 4100	CLOCK	: 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4478.00 ft TO: 4535.00 ft TVD: 4535.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 4529.0 ft 4532.0 ft
TEMPERATURE: 119.0

DRILL COLLAR LENGTH:	30.0 ft	I.D.:	2.250 in
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH :	4428.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	57.0 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 :	4.5XH
PACKER DEPTH:	4473.0 ft	SIZE:	6.630 in
PACKER DEPTH:	4478.0 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.	: EMPHASIS #7		
MUD TYPE	: CHEMICAL	VISCOSITY :	48.00 cp
WEIGHT	: 9.400 ppg	WATER LOSS:	10.200 cc
CHLORIDES	: 4000 ppm		
JARS-MAKE	:	SERIAL NUMBER:	
DID WELL FLOW?:	NO	REVERSED OUT?:	NO

COMMENTS

Comment

VERY WEAK BLOW ON TOP OF BUCKET ON INITIAL FLOW PERIOD. VERY WEAK SURFACE BLOW ON FINAL FLOW PERIOD.

ORIGINAL

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
10.0	20.0	0.0	0.0	80.0	OIL CUT MUD
6.0	100.0	0.0	0.0	0.0	FREE OIL
0.0	0.0	0.0	0.0	0.0	40 GRAVITY CORRECTED AT
0.0	0.0	0.0	0.0	0.0	60 DEGREES F.

RATE INFORMATION

OIL VOLUME:	0.0393 STB		
GAS VOLUME:	0.0000 SCF	TOTAL FLOW TIME:	60.0000 min.
MUD VOLUME:	0.0393 STB	AVERAGE OIL RATE:	1.8883 STB/D
WATER VOLUME:	0.0000 STB	AVERAGE WATER RATE:	0.0000 STB/D
TOTAL FLUID :	0.0787 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2255.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	85.00	85.00
INITIAL SHUT-IN	60.00		905.00
FINAL FLOW	30.00	105.00	95.00
FINAL SHUT-IN	60.00		825.00

FINAL HYDROSTATIC PRESSURE: 2245.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2286.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	59.00	59.00
INITIAL SHUT-IN	63.00		471.00
FINAL FLOW	30.00	65.00	59.00
FINAL SHUT-IN	60.00		305.00

FINAL HYDROSTATIC PRESSURE: 2258.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 12/08/93	TICKET	: 20205
CUSTOMER	: ZPC PETROLEUM INC.	LEASE	: KSU
WELL	: #1 TEST: 1	GEOLOGIST	: JEB STEWART
ELEVATION:		FORMATION	: MISSISSIPPI
SECTION	: 23	TOWNSHIP	: 16S
RANGE	: 25W COUNTY: NESS	STATE	: KS
GAUGE SN#:	10979 RANGE : 4100	CLOCK	: 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	59.00	59.00
5.00	59.00	0.00
10.00	59.00	0.00
15.00	59.00	0.00
20.00	59.00	0.00
25.00	59.00	0.00
30.00	59.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	59.00	59.00	11.00
6.00	62.00	3.00	6.00
9.00	67.00	5.00	4.33
12.00	74.00	7.00	3.50
15.00	88.00	14.00	3.00
18.00	107.00	19.00	2.67
21.00	128.00	21.00	2.43
24.00	149.00	21.00	2.25
27.00	172.00	23.00	2.11
30.00	201.00	29.00	2.00
33.00	226.00	25.00	1.91
36.00	255.00	29.00	1.83
39.00	281.00	26.00	1.77
42.00	308.00	27.00	1.71
45.00	337.00	29.00	1.67
48.00	362.00	25.00	1.63
51.00	387.00	25.00	1.59
54.00	408.00	21.00	1.56
57.00	431.00	23.00	1.53

ORIGINAL

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

Time (min)	Pressure	Delta P	Horner T
60.00	452.00	21.00	1.50
63.00	471.00	19.00	1.48

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	65.00	65.00
5.00	65.00	0.00
10.00	61.00	-4.00
15.00	59.00	-2.00
20.00	59.00	0.00
25.00	59.00	0.00
30.00	59.00	0.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	60.00	60.00	11.00
6.00	63.00	3.00	6.00
9.00	68.00	5.00	4.33
12.00	74.00	6.00	3.50
15.00	84.00	10.00	3.00
18.00	95.00	11.00	2.67
21.00	106.00	11.00	2.43
24.00	118.00	12.00	2.25
27.00	132.00	14.00	2.11
30.00	146.00	14.00	2.00
33.00	157.00	11.00	1.91
36.00	176.00	19.00	1.83
39.00	188.00	12.00	1.77
42.00	201.00	13.00	1.71
45.00	212.00	11.00	1.67
48.00	236.00	24.00	1.63
51.00	254.00	18.00	1.59
54.00	268.00	14.00	1.56
57.00	285.00	17.00	1.53
60.00	305.00	20.00	1.50

DK+2025

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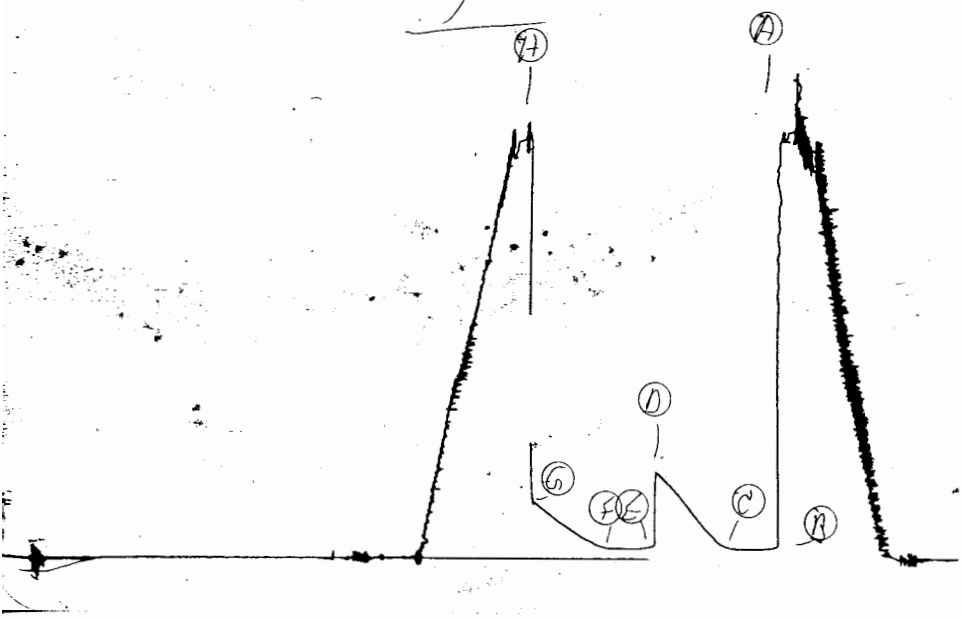

DK+2025

O

LAST TEST

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET Nº 20206

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

Elevation _____ Formation Miss Eff. Pay _____ Ft.

District Augusta Date 12-9-93 Customer Order No. _____

COMPANY NAME ZPC Petroleum, Inc

ADDRESS 9319 East Harry, Suite

LEASE AND WELL NO. KSU #1 COUNTY Ness STATE KS Sec. 23 Twp. 16S Rge. 25W

Mail Invoice To Same KSU #1 No. Copies Requested 1
Co. Name Address

Mail Charts To Same No. Copies Requested 5
Turnkey Emphasis Address

Formation Test No. DST #2 Interval Tested From 4478 ft. to 4550 ft. Total Depth 4550 ft.

Packer Depth 4473 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Packer Depth 4478 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4544 ft. Recorder Number 10975 Cap. 4100

Bottom Recorder Depth (Outside) 4547 ft. Recorder Number 3354 Cap. 4200

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

Drilling Contractor Emphasis Rig 7 Drill Collar Length 30 I. D. 2.25 in.

Mud Type Chem Viscosity 43 Weight Pipe Length — I. D. — in.

Weight 9.5 Water Loss 9.6 cc. Drill Pipe Length 4428 I. D. 3.8 in.

Chlorides 3500 P.P.M. Test Tool Length 20 ft. Tool Size 5 7/8 OD in.

Jars: Make — Serial Number — Anchor Length 72 ft. Size 5 7/8 OD 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 H in.

Blow: Weak blow 4" into bucket on (IFP) Weak blow 2" into bucket (FFP)

Recovered 75 ft. of Oil cut mud 50% mud 50% Oil

Recovered 5 ft. of free Oil 40% @ gravity at 60°

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Chlorides _____ P.P.M. Sample Jars used 2 Remarks: _____

Time On Location Stand-by A.M. P.M. Time Pick Up Tool 10:30 A.M. P.M. Time Off Location _____ A.M. P.M.

Time Set Packer(s) 11:30 A.M. P.M. Time Started Off Bottom 2:30 A.M. P.M. Maximum Temperature _____

Initial Hydrostatic Pressure			(A)	2255	P.S.I.	
Initial Flow Period	Minutes	30	(B)	85	P.S.I. to (C)	85 P.S.I.
Initial Closed In Period	Minutes	60	(D)	905	P.S.I.	
Final Flow Period	Minutes	30	(E)	105	P.S.I. to (F)	95 P.S.I.
Final Closed In Period	Minutes	60	(G)	825	P.S.I.	
Final Hydrostatic Pressure			(H)	2245	P.S.I.	

COMPANY TERMS

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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 _____
Signature of Customer or his authorized representative

Western Representative _____

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 12-9-93 Test Ticket No. 20206

Recorder No. 10979 Capacity _____ Location _____ Pt.

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2286	P.S.I.	Open Tool	_____ M	_____
B	First Initial Flow Pressure	84	P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	84	P.S.I.	Initial Closed-in Pressure	60 Mins.	63 Mins.
D	Initial Closed-in Pressure	901	P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E	Second Initial Flow Pressure	93	P.S.I.	Final Closed-in Pressure	60 Mins.	72 Mins.
F	Second Final Flow Pressure	93	P.S.I.			
G	Final Closed-in Pressure	842	P.S.I.			
H	Final Hydrostatic Mud	2258	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure

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

Point Mins.		Press.
B P 1	0	
P 2	5	
P 3	10	
P 4	15	
P 5	20	
P 6	25	
C P 7	30	84
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	
WTC	100	

Initial Shut-In

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

Point Minutes		Press.
C	0	84
	3	88
	6	114
	9	185
	12	247
	15	355
	18	452
	21	527
	24	588
	27	633
	30	681
	33	714
	36	743
	39	772
	42	791
	45	810
	48	830
	51	851
	54	861
	57	878
D	60	886

Second Flow Pressure

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

Point Minutes		Press.
E	0	
	5	
	10	
	15	
	20	
	25	
F	30	93
	35	
	40	
	45	
	50	
	55	
	60	
	65	
	70	
	75	
	80	
	85	
	90	
	95	
	100	

Final Shut-In

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

Point Minutes		Press.
F	0	93
	3	1
	6	98
	9	149
	12	214
	15	291
	18	370
	21	429
	24	486
	27	535
	30	575
	33	616
	36	647
	39	676
	42	696
	45	720
	48	740
	51	758
	54	766
	57	787
G	60	

— continued

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WESTERN TESTING CO., INC.
Pressure Data

Date 12-9-93 Test Ticket No. 20206

Recorder No. 10979 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

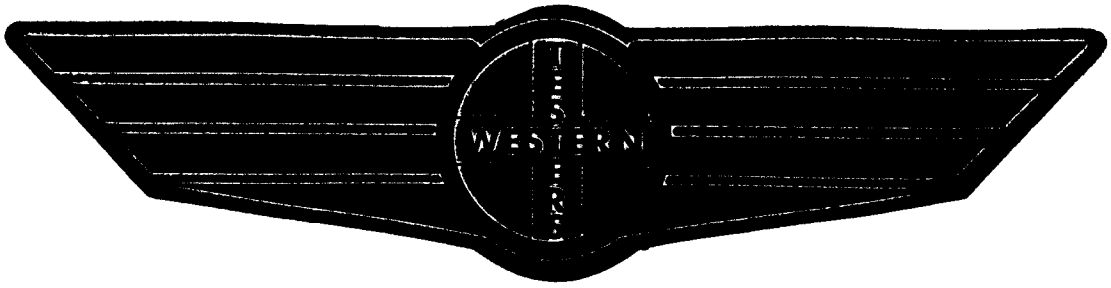
First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: ____ Inc. of ____ mins. and a final inc. of ____ Min.		Breakdown: ____ Inc. of ____ mins. and a final inc. of ____ Min.		Breakdown: ____ Inc. of ____ mins. and a final inc. of ____ Min.		Breakdown: ____ Inc. of 3 mins. and a final inc. of ____ Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 105		63		105		F - 63	810
P 2 110		66		110		I 66	823
P 3 115		69		115		69	835
P 4 120		72		120		G 72	842
P 5 125		75		125		75	
P 6 130		78		130		78	
P 7 135		81		135		81	
P 8 140		84		140		84	
P 9 145		87		145		87	
P10 150		90		150		90	
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	

ORIGINAL

FORMATION TEST REPORT

KCC

FEB 21 1995



Home Office: Wichita, Kansas 67201

P.O. Box 1599 Phone 1-800-688-7021

COMPANY ZPC PETROLEUM, INC.

LEASE & WELL NO. #1 KSU

API#15-135-23794

SEC. 23 TWP. 16S RGE. 25W TEST NO. 2 DATE 12/9/93

DST REPORT

GENERAL INFORMATION

DATE	: 12/09/93	TICKET	: 20206
CUSTOMER	: ZPC PETROLEUM INC.	LEASE	: KSU
WELL	: #1 TEST: 2	GEOLOGIST	: JEB STEWART
ELEVATION:		FORMATION	: MISSISSIPPI
SECTION	: 23	TOWNSHIP	: 16S
RANGE	: 25W COUNTY: NESS	STATE	: KS
GAUGE SN#:	10979 RANGE : 4100	CLOCK	: 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4478.00 ft TO: 4550.00 ft TVD: 4550.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 4544.0 ft 4547.0 ft
TEMPERATURE: 0.0

DRILL COLLAR LENGTH:	30.0 ft	I.D.:	2.250 in
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH :	4428.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	72.0 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 :	4.5XH
PACKER DEPTH:	4473.0 ft	SIZE:	6.630 in
PACKER DEPTH:	4478.0 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.	: EMPHASIS #7		
MUD TYPE	: CHEMICAL	VISCOSITY :	43.00 cp
WEIGHT	: 9.500 ppg	WATER LOSS:	9.600 cc
CHLORIDES	: 3500 ppm		
JARS-MAKE	:	SERIAL NUMBER:	
DID WELL FLOW?:	NO	REVERSED OUT?:	NO

COMMENTS

Comment

WEAK BLOW 4" IN BUCKET ON INITIAL FLOW PERIOD.
WEAK BLOW 2" IN BUCKET ON FINAL FLOW PERIOD.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
75.0	50.0	0.0	0.0	50.0	OIL CUT MUD
5.0	100.0	0.0	0.0	0.0	FREE OIL
0.0	0.0	0.0	0.0	0.0	40 GRAVITY CORRECTED AT
0.0	0.0	0.0	0.0	0.0	60 DEGREES F.

RATE INFORMATION

OIL VOLUME:	0.4367 STB		
GAS VOLUME:	0.0000 SCF	TOTAL FLOW TIME:	60.0000 min.
MUD VOLUME:	0.4121 STB	AVERAGE OIL RATE:	20.3722 STB/D
WATER VOLUME:	0.0000 STB	AVERAGE WATER RATE:	0.0000 STB/D
TOTAL FLUID :	0.8488 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2255.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	85.00	85.00
INITIAL SHUT-IN	60.00		905.00
FINAL FLOW	30.00	105.00	95.00
FINAL SHUT-IN	60.00		825.00

FINAL HYDROSTATIC PRESSURE: 2245.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2286.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	84.00	84.00
INITIAL SHUT-IN	63.00		901.00
FINAL FLOW	30.00	93.00	93.00
FINAL SHUT-IN	72.00		842.00

FINAL HYDROSTATIC PRESSURE: 2258.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 12/09/93	TICKET	: 20206
CUSTOMER	: ZPC PETROLEUM INC.	LEASE	: KSU
WELL	: #1 TEST: 2	GEOLOGIST	: JEB STEWART
ELEVATION:		FORMATION	: MISSISSIPPI
SECTION	: 23	TOWNSHIP	: 16S
RANGE	: 25W COUNTY: NESS	STATE	: KS
GAUGE SN#:	10979 RANGE : 4100	CLOCK	: 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	84.00	84.00
5.00	84.00	0.00
10.00	84.00	0.00
15.00	84.00	0.00
20.00	84.00	0.00
25.00	84.00	0.00
30.00	84.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	88.00	88.00	11.00
6.00	114.00	26.00	6.00
9.00	185.00	71.00	4.33
12.00	247.00	62.00	3.50
15.00	355.00	108.00	3.00
18.00	452.00	97.00	2.67
21.00	527.00	75.00	2.43
24.00	588.00	61.00	2.25
27.00	633.00	45.00	2.11
30.00	681.00	48.00	2.00
33.00	714.00	33.00	1.91
36.00	743.00	29.00	1.83
39.00	772.00	29.00	1.77
42.00	791.00	19.00	1.71
45.00	810.00	19.00	1.67
48.00	830.00	20.00	1.63
51.00	851.00	21.00	1.59
54.00	861.00	10.00	1.56
57.00	878.00	17.00	1.53

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

Time (min)	Pressure	Delta P	Horner T
60.00	886.00	8.00	1.50
63.00	901.00	15.00	1.48

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	93.00	93.00
5.00	93.00	0.00
10.00	93.00	0.00
15.00	93.00	0.00
20.00	93.00	0.00
25.00	93.00	0.00
30.00	93.00	0.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	93.00	93.00	11.00
6.00	98.00	5.00	6.00
9.00	149.00	51.00	4.33
12.00	214.00	65.00	3.50
15.00	291.00	77.00	3.00
18.00	370.00	79.00	2.67
21.00	429.00	59.00	2.43
24.00	486.00	57.00	2.25
27.00	535.00	49.00	2.11
30.00	575.00	40.00	2.00
33.00	616.00	41.00	1.91
36.00	647.00	31.00	1.83
39.00	676.00	29.00	1.77
42.00	696.00	20.00	1.71
45.00	720.00	24.00	1.67
48.00	740.00	20.00	1.63
51.00	758.00	18.00	1.59
54.00	766.00	8.00	1.56
57.00	787.00	21.00	1.53
60.00	797.00	10.00	1.50
63.00	810.00	13.00	1.48

FINAL SHUT IN (CONTINUED)

Time (min)	Pressure	Delta P	Horner T
66.00	823.00	13.00	1.45
69.00	835.00	12.00	1.43
72.00	842.00	7.00	1.42

TKt 20206

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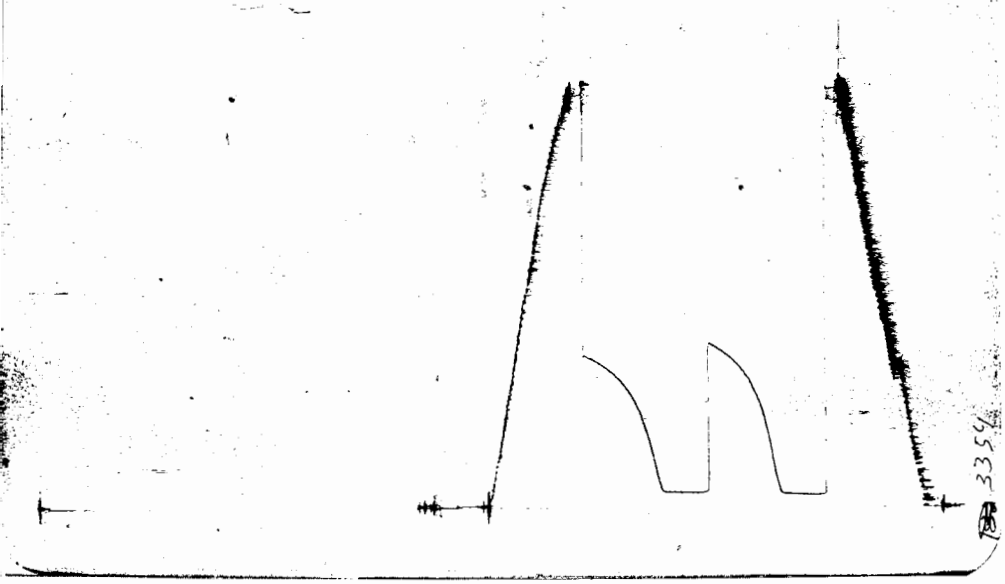

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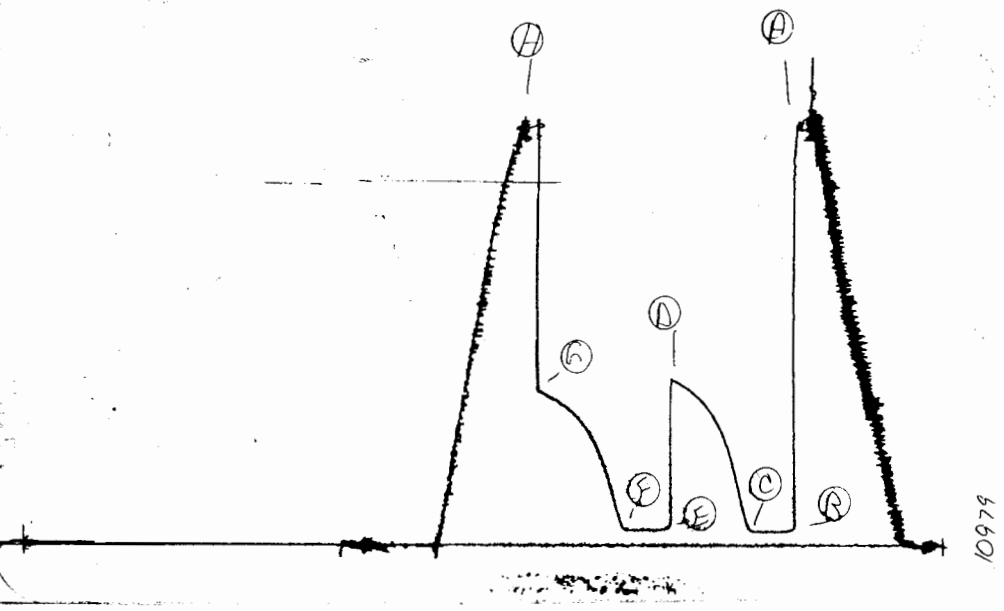


API #15-135-23794

KSU #1

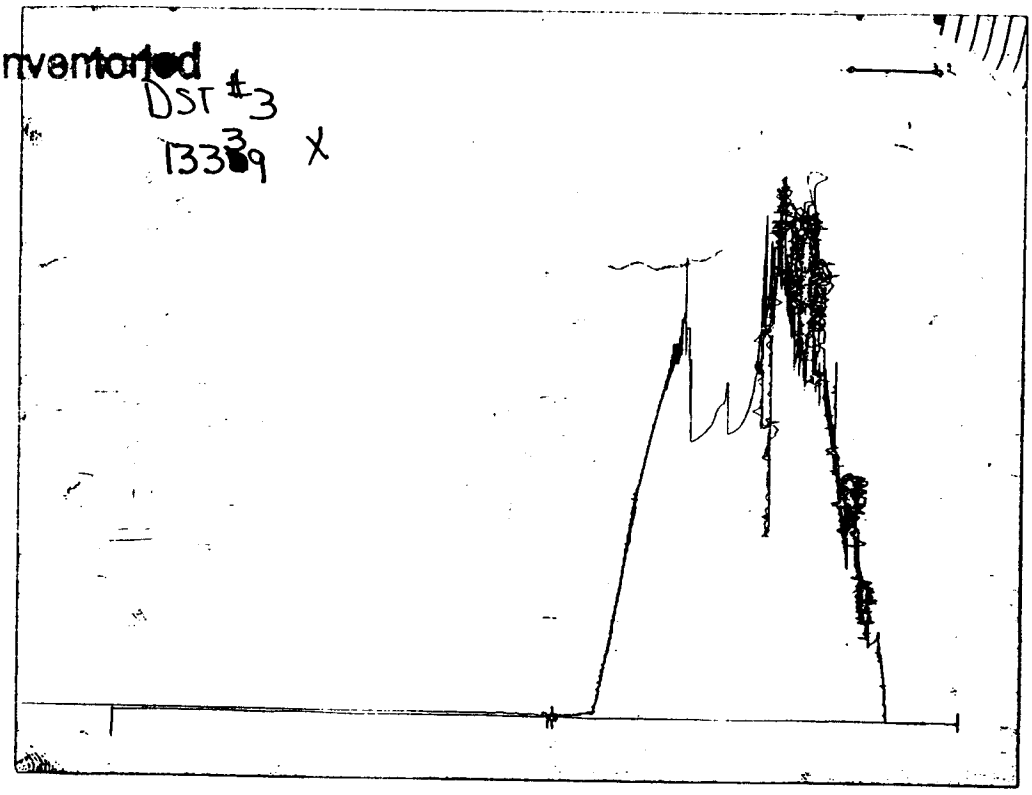
CHART PAGE

ORIGINAL

Computer Inventoried

DST #3

13383 X



This is an actual photograph of recorder chart

KCC

FEB 21 1995

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2373	2377.2
(B) FIRST INITIAL FLOW PRESSURE		
(C) FIRST FINAL FLOW PRESSURE		
(D) INITIAL CLOSED-IN PRESSURE		
(E) SECOND INITIAL FLOW PRESSURE		
(F) SECOND FINAL FLOW PRESSURE		
(G) FINAL CLOSED-IN PRESSURE		
(H) FINAL HYDROSTATIC MUD	2103	2114.9

API#15-135-23794

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

Drill-Stem Test Data

Well Name K-STATE #1-23 Test No. 3 Date 12/12/93

Company ZPC PETROLEUM, INC. Zone MISS

Address 9319 E HARRY SWT #122 WICHITA KS 67207 Elevation 2558 KB

Co. Rep./Geo. ZEB STEWART Cont. EMPHASIS DRLG RIG #7 Est. Ft. of Pay

Location: Sec. 23 Twp. 16S Rge. 25W Co. NESS State KS

Interval Tested 4576-4710 Drill Pipe Size 4.5" XH

Anchor Length 134 Wt. Pipe I.D. - 2.7 Ft. Run

Top Packer Depth 4571 Drill Collar – 2.25 Ft. Run 30

Bottom Packer Depth 4576 Mud Wt. lb/Gal.

Total Depth 4710 Viscosity Filtrate

Tool Open @ 8:10 AM Initial Blow TOOL OPENED AND SLID 55' TO BOTTOM-CEMENT PLUG FELL 25' TO 4735'-PACKER SET @4601/ HAD WEAK 1/4" INTERMITTEN BLOW

Final Blow LOSING 30'PLUS OF MUD IN 5 MINUTES THROUGH INITIAL OPEN & SHUT IN-TRIPPED OUT OF HOLE @ COMPANY ORDERS

Recovery - Total Feet 150 Flush Tool? NO

Rec. 150 Feet of HEAVY DRILLING MUD

Rec. Feet of

Rec. Feet of

Rec. Feet of

Rec. Feet of

BHT 120 °F Gravity °API @ °F Corrected Gravity °API

RW @ °F Chlorides ppm Recovery Chlorides ppm System

(A) Initial Hydrostatic Mud 2377.2 PSI AK1 Recorder No. 13309 Range 4700

(B) First Initial Flow Pressure PSI @ (depth) 4602 w / Clock No. 22992

(C) First Final Flow Pressure PSI AK1 Recorder No. 13339 Range 4025

(D) Initial Shut-in Pressure PSI @ (depth) 4607 w / Clock No. 19960

(E) Second Initial Flow Pressure PSI AK1 Recorder No. Range

(F) Second Final Flow Pressure PSI @ (depth) w / Clock No.

(G) Final Shut-in Pressure PSI Initial Opening 25 Final Flow

(H) Final Hydrostatic Mud 2114.9 PSI Initial Shut-in 30 Final Shut-in

Our Representative ROD STEINBRINK