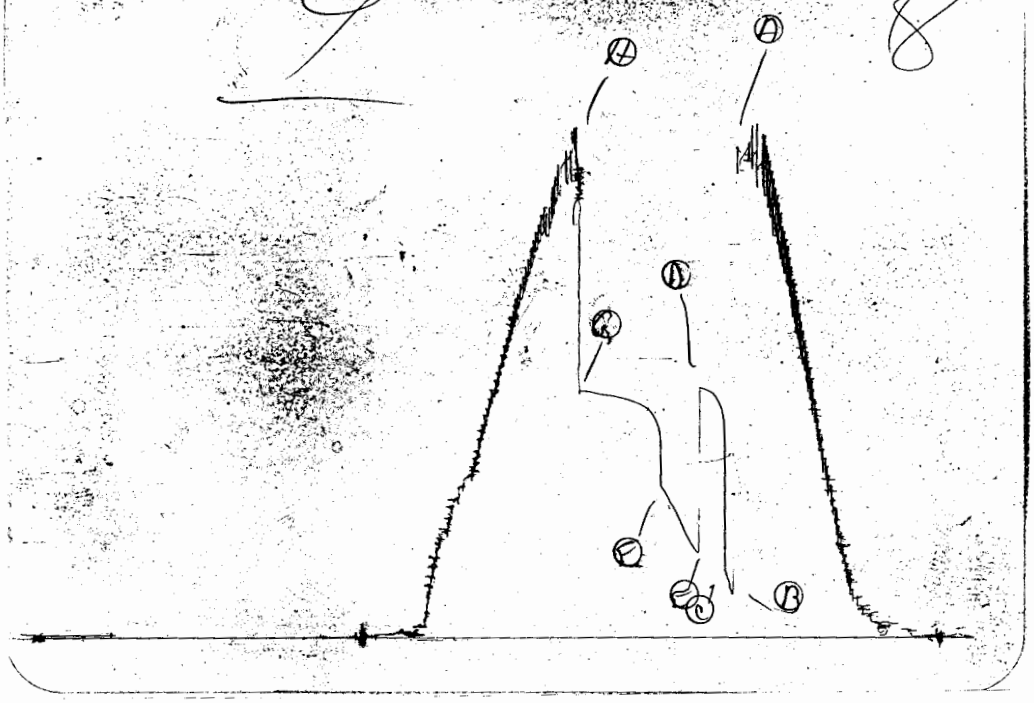
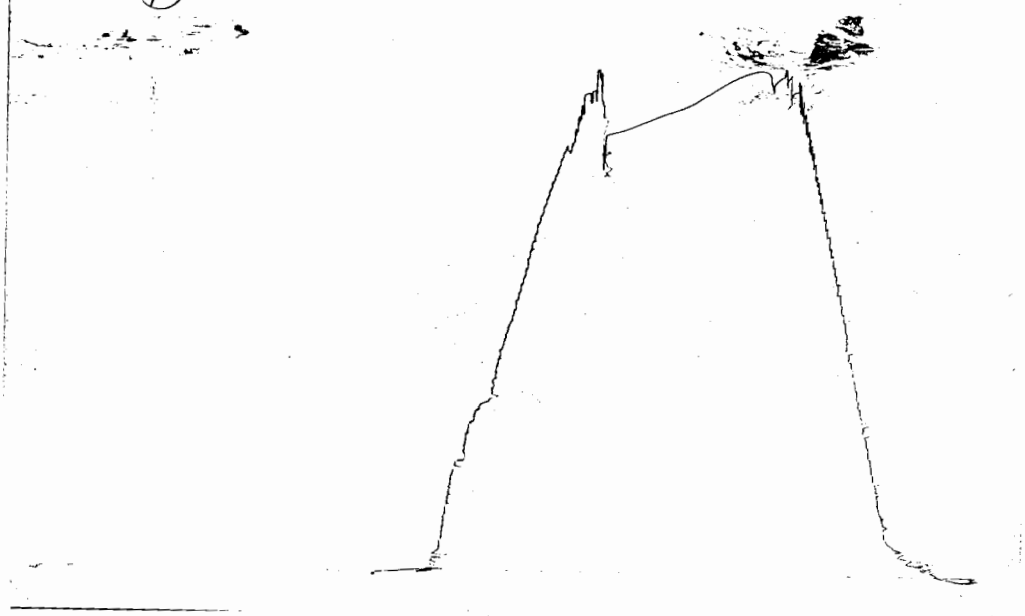
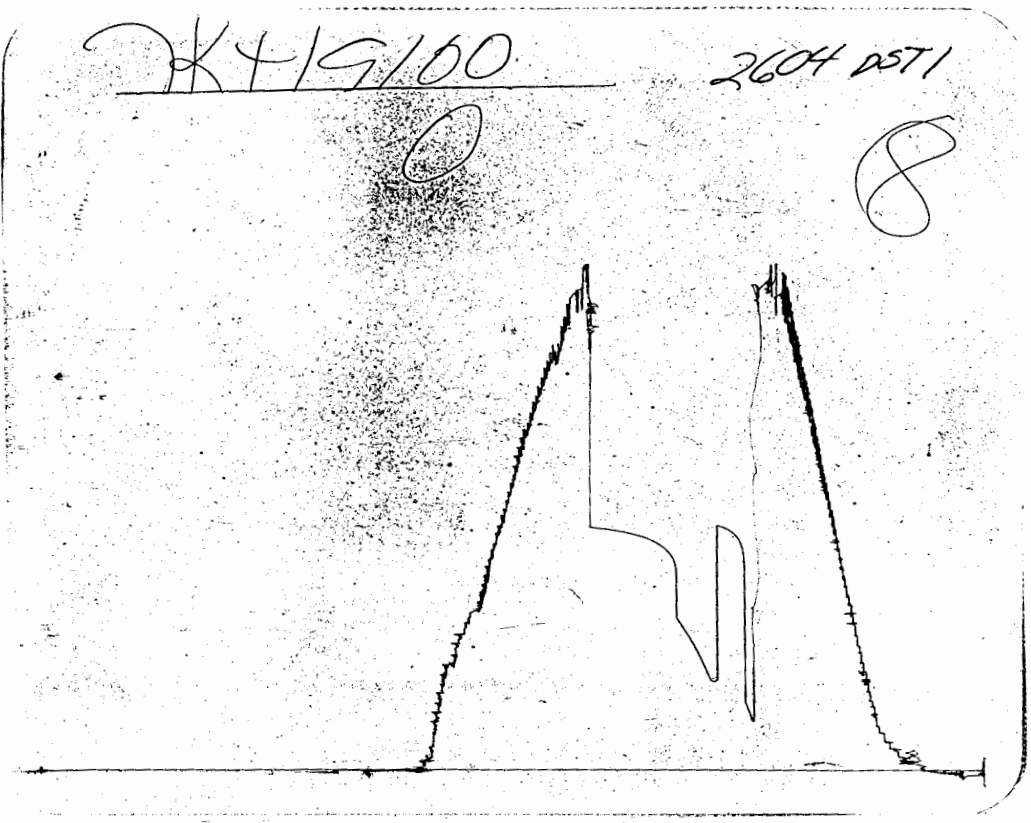
KH 19100 3849 DST 1



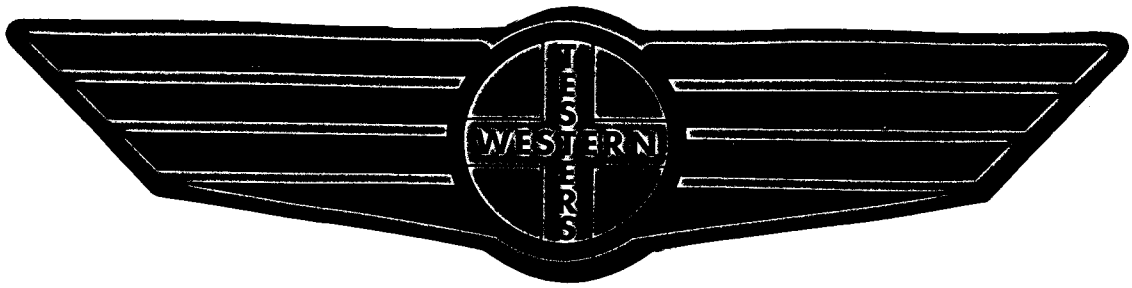
KH 19100 2605 DST 1
Below Straddle



DK4IG100 2604 DST1



FORMATION TEST REPORT



Home Office: Wichita, Kansas 67201

P.O. Box 1599 Phone 1-80-688-7021

COMPANY CHARTER PRODUCTION COMPANY LEASE & WELL NO. #2 TUCKER SEC. 8 TWP. 27S RGE. 39W TEST NO. 1 DATE 9/1/93

DST REPORT

GENERAL INFORMATION

DATE	: 9/1/93	TICKET	: 19100
CUSTOMER	: CHARTER PRODUCTION CO.	LEASE	: TUCKER
WELL	: #2 TEST: 1	GEOLOGIST	: ?
ELEVATION	: 3186 KB	FORMATION	: ST LOUIS
SECTION	: 8	TOWNSHIP	: 27S
RANGE	: 39W COUNTY: STANTON	STATE	: KS
GAUGE SN#	: 3849 RANGE : 4200	CLOCK	: 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 5360.00 ft TO: 5380.00 ft TVD: 5533.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 5367.0 ft 5370.0 ft
TEMPERATURE: 148.0

DRILL COLLAR LENGTH:	476.0 ft	I.D.:	2.250 in
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH :	4856.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	28.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	20.0 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:	5355.0 ft	SIZE:	6.630 in
PACKER DEPTH:	5360.0 ft	SIZE:	6.630 in
PACKER DEPTH:	5380.0 ft	SIZE:	6.630 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in

MUD INFORMATION

DRILLING CON.	: ZENITH RIG 6		
MUD TYPE	: CHEMICAL	VISCOSITY :	62.00 cp
WEIGHT	: 9.300 ppg	WATER LOSS:	8.800 cc
CHLORIDES	: 1500 ppm		
JARS-MAKE	: WTC	SERIAL NUMBER:	402
DID WELL FLOW?	: NO	REVERSED OUT?:	YES

COMMENTS

Comment

INITIAL FLOW PERIOD FAIR TO STRONG BLOW - BOTTOM OF BUCKET IN 2 MINUTES. FINAL FLOW PERIOD FAIR TO STRONG BLOW IN 2 MINUTES.

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

TAILPIPE 126FT OF 4.5"; 27FT OF 5.5" TOTAL 153 FT

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
150.0	0.0	0.0	37.0	63.0	WATER CUT MUD
1620.0	0.0	0.0	100.0	0.0	SALTWATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 45000 PPM

RATE INFORMATION

OIL VOLUME:	0.0000 STB		
GAS VOLUME:	0.0000 SCF	TOTAL FLOW TIME:	35.0000 min.
MUD VOLUME:	1.3255 STB	AVERAGE OIL RATE:	0.0000 STB/D
WATER VOLUME:	19.1653 STB	AVERAGE WATER RATE:	843.0511 STB/D
TOTAL FLUID :	20.4908 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2646.00

Description	Duration	p1	p End
INITIAL FLOW	5.00	227.00	355.00
INITIAL SHUT-IN	20.00		1351.00
FINAL FLOW	30.00	459.00	826.00
FINAL SHUT-IN	60.00		1345.00

FINAL HYDROSTATIC PRESSURE: 2614.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2691.00

Description	Duration	p1	p End
INITIAL FLOW	5.00	240.00	366.00
INITIAL SHUT-IN	24.00		1366.00
FINAL FLOW	30.00	467.00	825.00
FINAL SHUT-IN	63.00		1353.00

FINAL HYDROSTATIC PRESSURE: 2633.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 9/1/93			TICKET	: 19100
CUSTOMER	: CHARTER PRODUCTION CO.			LEASE	: TUCKER
WELL	: #2	TEST: 1		GEOLOGIST	: ?
ELEVATION	: 3186 KB			FORMATION	: ST LOUIS
SECTION	: 8			TOWNSHIP	: 27S
RANGE	: 39W	COUNTY:	STANTON	STATE	: KS
GAUGE SN#	: 3849	RANGE :	4200	CLOCK	: 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	240.00	240.00
5.00	366.00	126.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	1039.00	1039.00	0.00
6.00	1253.00	214.00	0.00
9.00	1289.00	36.00	0.00
12.00	1323.00	34.00	0.00
15.00	1344.00	21.00	0.00
18.00	1355.00	11.00	0.00
21.00	1361.00	6.00	0.00
24.00	1366.00	5.00	0.00

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	467.00	467.00
5.00	514.00	47.00
10.00	573.00	59.00
15.00	655.00	82.00
20.00	725.00	70.00
25.00	782.00	57.00
30.00	825.00	43.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	1157.00	1157.00	0.00
6.00	1198.00	41.00	0.00
9.00	1235.00	37.00	0.00
12.00	1256.00	21.00	0.00
15.00	1269.00	13.00	0.00
18.00	1281.00	12.00	0.00
21.00	1291.00	10.00	0.00
24.00	1299.00	8.00	0.00
27.00	1303.00	4.00	0.00
30.00	1310.00	7.00	0.00
33.00	1315.00	5.00	0.00
36.00	1319.00	4.00	0.00
39.00	1324.00	5.00	0.00
42.00	1328.00	4.00	0.00
45.00	1331.00	3.00	0.00
48.00	1335.00	4.00	0.00
51.00	1339.00	4.00	0.00
54.00	1343.00	4.00	0.00
57.00	1347.00	4.00	0.00
60.00	1351.00	4.00	0.00
63.00	1353.00	2.00	0.00

TO: CHARTER PRODUCTION CO.
224 E DOUGLAS SUITE 400
WICHITA, KANSAS 67202

FROM: WESTERN TESTING CO. INC.
P.O. BOX 1599
WICHITA, KANSAS 67201-1599

SUBJECT: COPIES OF DRILL STEM TEST MAILED TO INTEREST OWNERS.

DATE : SEPTEMBER 11, 1993

WELL NAME & NUMBER: #2 TUCKER

TEST NUMBERS: 1

LOCATION: STANTON CO., KANSAS

COPIES MAILED TO:

CHARTER PRODUCTION CO.
224 EAST DOUGLAS SUITE 400
WICHITA, KS 67202
(INVOICE + ORIGINAL + 4 COPIES)

MR. VAN LEIGHTON
AMOCO PRODUCTION COMPANY
PO BOX 800
DENVER, COLORADO 80201
(3 COPIES)

Last Test

WESTERN TESTING CO., INC.
FORMATION TESTING TICKET

Nº 19100

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

Elevation 3186 K.B. Formation St. Louis Eff. Pay ____ Ft.

District Garden City Date 9-1-93 Customer Order No. ____

COMPANY NAME Chester Production Co.

ADDRESS 400 Kress Energy Center 224 E. Douglass Wichita KS. 67202

LEASE AND WELL NO. Tucker #2 1-8 COUNTY Stanton STATE KS. Sec. 8 Twp. 27S Rge. 39W

Mail Invoice To Chester Prod. (#2 Tucker) Co. Name Address No. Copies Requested Reg.

Mail Charts To Amoco Prod. Co. Attn: Ken Leighton Address No. Copies Requested 3

Chester CREG

Formation Test No. 1 Interval Tested From 5360 ft. to 5380 ft. Total Depth 5533 ft.

Packer Depth 5355 ft. Size 6 5/8 in. Packer Depth 5380 ft. Size 6 5/8 in.

Packer Depth 5360 ft. Size 6 5/8 in. Packer Depth ____ ft. Size ____ in.

Depth of Selective Zone Set ____

Top Recorder Depth (Inside) 5367 ft. Recorder Number 3849 Cap. 4200

Bottom Recorder Depth (Outside) 5370 ft. Recorder Number 2604 Cap. 4150

Below Straddle Recorder Depth 5400 ft. Recorder Number 2605 Cap. 4150

Drilling Contractor Zenith Rig 6 Drill Collar Length 476 I. D. 2 1/4 in.

Mud Type Chem. Viscosity 62 Weight Pipe Length ____ I. D. ____ in.

Weight 9.3 Water Loss 8.8 cc. Drill Pipe Length 4856 I. D. 3.8 in.

Chlorides 4,500 P.P.M. Test Tool Length 28 ft. Tool Size 5 1/2 in.

Jars: Make W.T.C. Serial Number 402 Anchor Length 20 ft. Size 5 1/2 in.

Did Well Flow? No Reversed Out Yes 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 X.H. in.

Blow: Fair to Strong "B.O.B." in 2 Min. I.F

Fair to Strong in 2 Min. F.F

Recovered 150 ft. of WTR cut Mud 37% WTR 63% Mud

Recovered 4620 ft. of Salt WTR 45,000 P.P.M.

Recovered ____ ft. of ____

Recovered ____ ft. of ____

Recovered ____ ft. of Total Fluid Rec. 4770'

Chlorides 45,000 P.P.M. Sample Jars used ____ Remarks: Tail Pipe = 126 of 4 1/2" 27' of 5 1/2" Total = 153'

Time On Location 5:30 A.M. (P.M.) Time Pick Up Tool 2:30 A.M. (P.M.) Time Off Location ____ A.M. P.M.

Time Set Packer(s) 9:35 A.M. (P.M.) Time Started Off Bottom 11:30 A.M. (P.M.) Maximum Temperature 148°F

Initial Hydrostatic Pressure		(A) 2646	P.S.I.		
Initial Flow Period	Minutes 5	(B) 227	P.S.I. to (C)	355	P.S.I.
Initial Closed In Period	Minutes 20	(D) 1351	P.S.I.		
Final Flow Period	Minutes 30	(E) 459	P.S.I. to (F)	826	P.S.I.
Final Closed In Period	Minutes 60	(G) 1345	P.S.I.		
Final Hydrostatic Pressure		(H) 2614	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 ____
Signature of Customer or his authorized representative

Western Representative Tommy L. Gahagan

FIELD INVOICE

Open Hole Test	$ 400
Misrun	$ ____
Straddle Test	$ 400
Jars	$ 500
Selective Zone	$ ____
Safety Joint	$ ____
Standby	$ ____
Evaluation	$ ____
Extra Packer	$ 150
Circ. Sub.	$ ____
Mileage	$ 35
Fluid Sampler	$ ____
Extra Charts	$ ____
Insurance	$ ____
Telecopier	$ ____
TOTAL	$ 1385

WESTERN TESTING CO., INC.

Pressure Data

Date 5-6-92 Test Ticket No. 19100

Recorder No. 8849 Capacity Location Ft.

Clock No. Elevation Well Temperature °F

Point		Pressure		Time Given	Time Computed
A	Initial Hydrostatic Mud	2697 P.S.I.	Open Tool	M	
B	First Initial Flow Pressure	140 P.S.I.	First Flow Pressure	Mins. 5	Mins. 5
C	First Final Flow Pressure	366 P.S.I.	Initial Closed-in Pressure	Mins. 24	Mins. 24
D	Initial Closed-in Pressure	1366 P.S.I.	Second Flow Pressure	Mins. 30	Mins. 30
E	Second Initial Flow Pressure	467 P.S.I.	Final Closed-in Pressure	Mins. 62	Mins. 62
F	Second Final Flow Pressure	825 P.S.I.			
G	Final Closed-in Pressure	1352 P.S.I.			
H	Final Hydrostatic Mud	2633 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure

Breakdown: Inc. of 5 mins. and a final inc. of 0 Min.

Point	Mins.	Press.
P 1	0	140
P 2	5	366
P 3	10	
P 4	15	
P 5	20	
P 6	25	
P 7	30	
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	
	100	

Initial Shut-In

Breakdown: Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	366
3	1035
6	1252
9	1289
12	1323
15	1344
18	1355
21	1361
24	1366
27	
30	
33	
36	
39	
42	
45	
48	
51	
54	
57	
60	

Second Flow Pressure

Breakdown: Inc. of 5 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	467
5	514
10	573
15	655
20	745
25	781
30	825
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 0 Min.

Point Minutes	Press.
0	825
3	1157
6	1258
9	1295
12	1256
15	1269
18	1281
21	1291
24	1289
27	1302
30	1310
33	1315
36	1319
39	1324
42	1328
45	1331
48	1335
51	1339
54	1345
57	1349
60	1352

62 1352