



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET

No. **4317**

P. O. BOX 1599 PHONE (316) 262-5861

WICHITA, KANSAS 67201

Formation Cherokee Elevation _____ Ft. Eff. Pay _____ Ft.

5010

Company

Date 3-31-57 Customer Order No. _____

COMPANY NAME Shelton Production Company

ADDRESS 6401 W. Grand, Ste 500, Okla City, Ok. 73116

LEASE AND WELL NO. Freeman 2-21 COUNTY Barber STATE KS Sec. 21 Twp. 30S Rge. 15W

Mail Invoice To #2-21 Freeman Co. Name _____ Address _____ No. Copies Requested 100

Mail Charts To _____ Address _____ No. Copies Requested 100

Formation Test No. 1 Interval Tested From 4450 ft. to 4526 ft. Total Depth 4526 ft.

Packer Depth 4450 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 4450 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4517 ft. Recorder Number 13702 Cap. 4025

Bottom Recorder Depth (Outside) 4520 ft. Recorder Number 1551 Cap. 4200

Below Scaddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____

Drilling Contractor Delaware Drilling Co. #9 Drill Collar Length 500 I. D. 2.2 in.

Mud Type D-110 Viscosity 5.12 Weight Pipe Length 500 I. D. 3.0 in.

Weight 9.1 Water Loss 14.4 cc. Drill Pipe Length 3728 I. D. 3.5 in.

Chlorides 15,000 P.P.M. Test Tool Length 30 ft. Tool Size 5.5 (1) in.

Jars: Make WTC Serial Number 406 Anchor Length 48 ft. Size 5.5 (1) in.

Did Well Flow? no Reversed Out _____ Surface Choke Size 4 in. Bottom Choke Size 4 in.

Main Hole Size 7 3/8 in. Tool Joint Size 4 1/2 FH in.

Blow: adding 10 SPM on gas to surface in the final flow period.

Recovered 230 ft. of Clear Gassy Oil

Recovered 450 ft. of Heavy Oil cut gassy mud

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Chlorides _____ P.P.M. Sample Jars used 5 Remarks: 5% water, 25% mud, 20% clay, and 50% gas

Time On Location 7:00 A.M. Time Pick Up Tool 8:30 A.M. Time Off Location 9:00 P.M.

Time Set Packer(s) 10:35 P.M. Time Started Off Bottom 3:50 P.M. Maximum Temperature 119

Initial Hydrostatic Pressure _____ (A) 2267 P.S.I.

Initial Flow Period _____ Minutes 45 (B) 127 P.S.I. to (C) 186 P.S.I.

Initial Closed In Period _____ Minutes 70 (D) 1805 P.S.I.

Final Flow Period _____ Minutes 60 (E) 216 P.S.I. to (F) 275 P.S.I.

Final Closed In Period _____ Minutes 120 (G) 907 P.S.I.

Final Hydrostatic Pressure _____ (H) 2157 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 Richard P. Reynolds Signature of Customer or his authorized representative 1625

Western Representative [Signature]

FIELD INVOICE

Open Hole Test	\$ <u>595.00</u>
Misrun	\$ _____
Straddle Test	\$ _____
Jars	\$ <u>300</u>
Selective Zone	\$ _____
Safety Joint	\$ <u>65</u>
Standby	\$ _____
Evaluation	\$ _____
Extra Packer	\$ _____
Circ. Sub.	\$ _____
Mileage	\$ _____
Fluid Sampler	\$ _____
Extra Charts	\$ _____
Insurance	\$ _____
Telecopier	\$ _____
TOTAL	\$ <u>960.00</u>

WESTERN TESTING CO., INC.

Pressure Data

Date 3-31

Test Ticket No. 4317

Recorder No. 13402

Capacity _____ Location _____ Ft.

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud <u>2269</u> P.S.I.			
B First Initial Flow Pressure <u>124</u> P.S.I.		<u>45</u> Mins.	<u>45</u> Mins.
C First Final Flow Pressure <u>203</u> P.S.I.		<u>90</u> Mins.	<u>90</u> Mins.
D Initial Closed-in Pressure <u>1013</u> P.S.I.		<u>60</u> Mins.	<u>55</u> Mins.
E Second Initial Flow Pressure <u>226</u> P.S.I.		<u>120</u> Mins.	<u>129</u> Mins.
F Second Final Flow Pressure <u>270</u> P.S.I.			
G Final Closed-in Pressure <u>896</u> P.S.I.			
H Final Hydrostatic Mud <u>2176</u> P.S.I.			

PRESSURE BREAKDOWN

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
0	<u>124</u>	0	<u>203</u>	0	<u>226</u>	0	<u>270</u>
5	<u>142</u>	3	<u>236</u>	5	<u>226</u>	3	<u>295</u>
10	<u>173</u>	6	<u>282</u>	10	<u>226</u>	6	<u>325</u>
15	<u>187</u>	9	<u>329</u>	15	<u>229</u>	9	<u>354</u>
20	<u>199</u>	12	<u>366</u>	20	<u>233</u>	12	<u>384</u>
25	<u>200</u>	15	<u>404</u>	25	<u>238</u>	15	<u>411</u>
30	<u>201</u>	18	<u>439</u>	30	<u>244</u>	18	<u>439</u>
35	<u>202</u>	21	<u>484</u>	35	<u>250</u>	21	<u>463</u>
40	<u>203</u>	24	<u>526</u>	40	<u>256</u>	24	<u>484</u>
45	<u>203</u>	27	<u>571</u>	45	<u>262</u>	27	<u>510</u>
50		30	<u>617</u>	50	<u>266</u>	30	<u>532</u>
55		33	<u>658</u>	55	<u>270</u>	33	<u>553</u>
60		36	<u>698</u>	60		36	<u>573</u>
		39	<u>739</u>	65		39	<u>593</u>
		42	<u>771</u>	70		42	<u>613</u>
		45	<u>798</u>	75		45	<u>630</u>
		48	<u>826</u>	80		48	<u>647</u>
		51	<u>848</u>	85		51	<u>668</u>
		54	<u>872</u>	90		54	<u>684</u>
		57	<u>891</u>			57	<u>697</u>
		60	<u>909</u>			60	<u>711</u>

WESTERN TESTING CO., INC.

Pressure Data

4317

Date _____ Test Ticket No. _____

Recorder No. _____ Capacity _____ Location _____ Ft.

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud _____	_____ P.S.I.	_____ M	_____
B First Initial Flow Pressure _____	_____ P.S.I.	_____ Mins.	_____ Mins.
C First Final Flow Pressure _____	_____ P.S.I.	_____ Mins.	_____ Mins.
D Initial Closed-in Pressure _____	_____ P.S.I.	_____ Mins.	_____ Mins.
E Second Initial Flow Pressure _____	_____ P.S.I.	_____ Mins.	_____ Mins.
F Second Final Flow Pressure _____	_____ P.S.I.	_____ Mins.	_____ Mins.
G Final Closed-in Pressure _____	_____ P.S.I.	_____ Mins.	_____ Mins.
H Final Hydrostatic Mud _____	_____ P.S.I.	_____ Mins.	_____ Mins.

PRESSURE BREAKDOWN

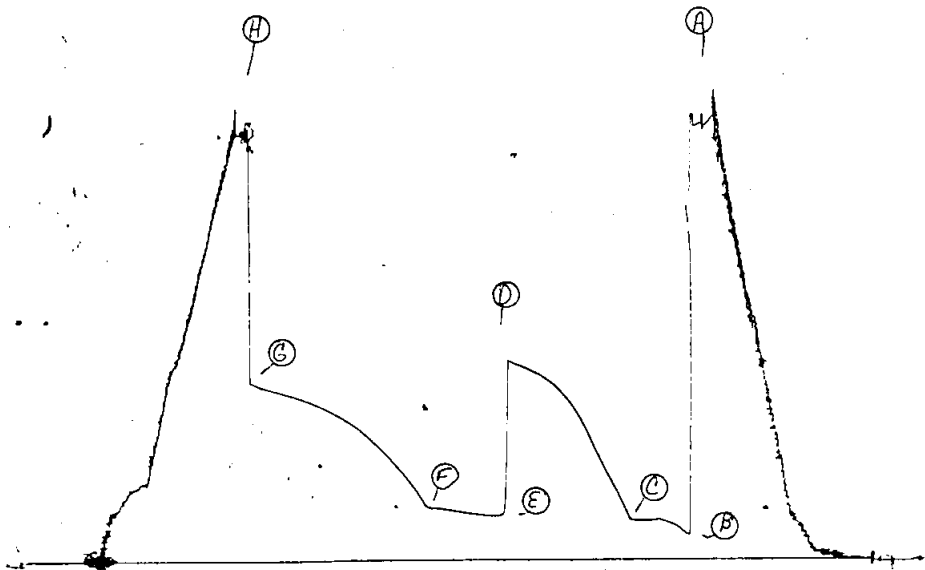
<p>First Flow Pressure Breakdown: _____ Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.</p>	<p>Initial Shut-In Breakdown: _____ Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.</p>	<p>Second Flow Pressure Breakdown: _____ Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.</p>	<p>Final Shut-In Breakdown: _____ Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.</p>
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Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes
P 1		63	923			63	724	
P 2		66	937			66	736	
P 3		69	949			69	746	
P 4		72	961			72	756	
P 5		75	969			75	766	
P 6		78	977			78	776	
P 7		81	985			81	786	
P 8		84	1003			84	796	
P 9		87	1008			87	804	
P10		90	1013			90	812	
P11		93				93	820	
P12		96				96	828	
P13		99				99	836	
P14		102				102	842	
P15		105				105	848	
P16		108				108	854	
P17		111				111	860	
P18		114				114	866	
P19		117				117	872	
P20		120				120	878	
						123	884	
						126	890	
						129	896	

VST#1 IKT #4317

134/02

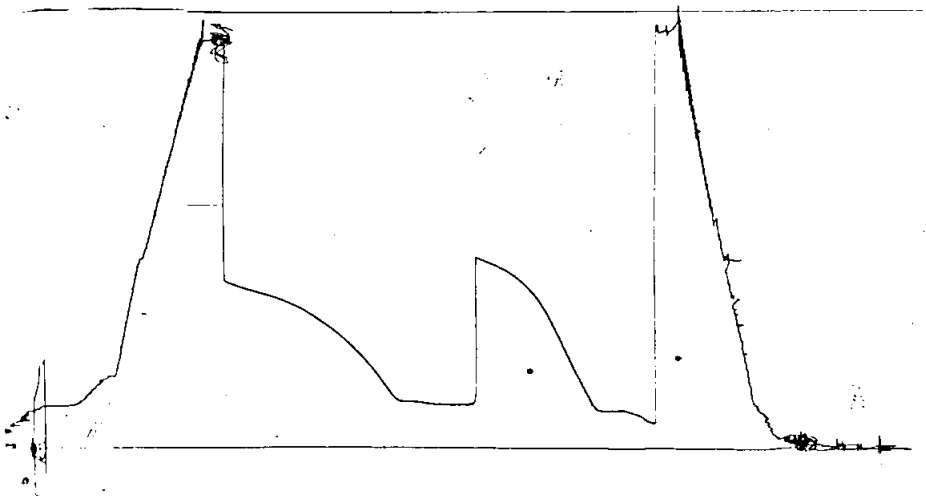
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Dst#1 TKT# 4317

1559

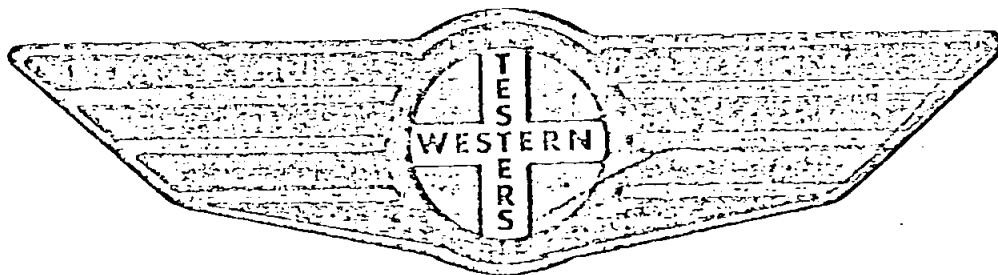
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FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company SABINE PRODUCTION COMPANY Lease and Well No. #2-21 FREEMAN Sec. 21 Twp. 30S Rge. 15W Test No. 1 Date 3/31/84

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 3/31/84
 CUSTOMER: SABINE PRODUCTION COMPANY
 WELL: 2-21 TEST: 1
 ELEVATION (KB): 0
 SECTION: 21
 RANGE: 15W
 AUGER SN #13402

TICKET #4317
 LEASE: FREEMAN
 GEOLOGIST: REYNOLDS
 FORMATION: CHEROKEE
 TOWNSHIP: 30S
 COUNTY: BARBER
 RANGE: 4025
 STATE: KANSAS
 CLOCK: 12

INTERVAL TEST FROM: 4458 FT TO: 4526 FT TOTAL DEPTH: 4526 FT
 DEPTH OF SELECTIVE ZONE: FT
 PACKER DEPTH: 4453 FT SIZE: 6 3/4 IN PACKER DEPTH: 4458 FT SIZE: 6 3/4 IN
 PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: SLAWSON
 JOBD TYPE: DRISPAC VISCOSITY: 42
 WEIGHT: 9.1 WATER LOSS (CC): 14.4
 FLORIDES (P.P.M.): 18000
 WARS - MAKE: W.T.C. SERIAL NUMBER: 406
 DID WELL FLOW? NO REVERSED OUT?
 DRILL COLLAR LENGTH: 500 FT I.D.: 2.2 IN
 DRILL PIPE LENGTH: FT I.D.: IN
 DRILL PIPE LENGTH: 3928 FT I.D.: 3.8 IN
 TEST TOOL LENGTH: 30 FT TOOL SIZE: 5 1/2 O.D. IN
 ANCHOR LENGTH: 68 FT SIZE: 5 1/2 O.D. 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 F.H. IN

FLOW: STRONG BLOW THROUGHOUT TEST;
 GAS TO SURFACE IN THE FINAL FLOW;
 TOO SMALL TO MEASURE.

RECOVERED: 230 FT OF: CLEAN GASSY OIL
 RECOVERED: 450 FT OF: HEAVY OIL CUT GASSY MUD
 RECOVERED: FT OF: 5% WATER; 25% MUD; 20% OIL; 50% GAS
 RECOVERED: FT OF:
 RECOVERED: FT OF:
 RECOVERED: FT OF:
 RECOVERED: FT OF:
 RECOVERED: FT OF:
 RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 10:35 P.M. TIME STARTED OFF BOTTOM: 3:50 A.M.
 WELL TEMPERATURE: 119 °F
 INITIAL HYDROSTATIC PRESSURE: (A) 2269 PSI
 INITIAL FLOW PERIOD MIN: 45 (B) 124 PSI TO (C) 203 PSI
 INITIAL CLOSED IN PERIOD MIN: 90 (D) 1013 PSI
 FINAL FLOW PERIOD MIN: 55 (E) 226 PSI TO (F) 270 PSI
 FINAL CLOSED IN PERIOD MIN: 129 (G) 896 PSI
 FINAL HYDROSTATIC PRESSURE (H) 2176 PSI

WESTERN TESTING COMPANY INC.
PRESSURE DATA

DATE: 3/31/84	TICKET #4317
CUSTOMER: SABINE PRODUCTION COMPANY	LEASE: FREEMAN
WELL: 2-21	TEST: 1
ELEVATION (KB): 0	FORMATION: CHEROKEE
SECTION: 21	TOWNSHIP: 30S
RANGE: 15W	COUNTY: BARBER
GAUGE SN #13402	RANGE: 4025
	STATE: KANSAS
	CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE:	2269	PSI
(B) FIRST INITIAL FLOW PRESSURE:	124	PSI
(C) FIRST FINAL FLOW PRESSURE:	203	PSI
(D) INITIAL CLOSED-IN PRESSURE:	1013	PSI
(E) SECOND INITIAL FLOW PRESSURE:	226	PSI
(F) SECOND FINAL FLOW PRESSURE:	270	PSI
(G) FINAL CLOSED-IN PRESSURE:	896	PSI
(H) FINAL HYDROSTATIC PRESSURE:	2176	PSI
WELL TEMPERATURE:	119	'F
OPEN TOOL:	10:35 P.M.	

	TIME - GIVEN	TIME - ACTUAL
FIRST FLOW PRESSURE:	45 MIN	45 MIN
INITIAL CLOSED-IN PRESSURE:	90 MIN	90 MIN
SECOND FLOW PRESSURE:	60 MIN	55 MIN
FINAL CLOSED-IN PRESSURE:	120 MIN	129 MIN

PRESSURE BREAKDOWN

PT	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	124	0	203	0	226	0	270
2	5	142	3	236	5	226	3	295
3	10	173	6	282	10	226	6	325
4	15	187	9	329	15	229	9	354
5	20	199	12	366	20	233	12	384
6	25	200	15	404	25	238	15	411
7	30	201	18	439	30	244	18	439
8	35	202	21	484	35	250	21	463
9	40	203	24	526	40	256	24	484
10	45	203	27	571	45	262	27	510
11			30	617	50	266	30	532
12			33	658	55	270	33	553
13			36	698			36	573
14			39	739			39	593
15			42	771			42	613
16			45	798			45	630
17			48	826			48	647
18			51	848			51	668
19			54	872			54	684
20			57	891			57	697
21			60	909			60	711
22			63	923			63	724
23			66	937			66	736
24			69	949			69	746
25			72	961			72	756
26			75	969			75	766
27			78	977			78	776
28			81	985			81	786
29			84	1003			84	796
30			87	1008			87	804

