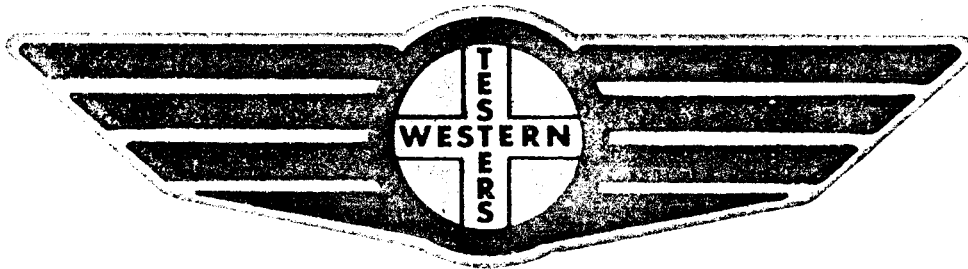


# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

RECEIVED

OCT 5 '83

GREAT BEND  
Division Office

NE - SE

COMPANY \_\_\_\_\_  
WILLIAMS LEASING COMPANY  
LEASE AND WELL NO. \_\_\_\_\_  
IT-1 CADDON \_\_\_\_\_  
SEC. 1 \_\_\_\_\_  
TWP. 31S \_\_\_\_\_  
RGE. \_\_\_\_\_  
27W \_\_\_\_\_  
TEST NO. 1 \_\_\_\_\_  
DATE 10/6/83



WESTERN TESTING CO., INC.
FORMATION TESTING

OK

TICKET No 19030

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

Elevation \_\_\_\_\_ Formation Morrow Sand Eff. Pay \_\_\_\_\_ Ft.

District Pratt Date 7/6/83 Customer Order No. \_\_\_\_\_

COMPANY NAME Cheyenne Petroleum Company

ADDRESS 4045 NW 64th St. Suite 630 OK City (Bill to: Eagle Drigs P.O. Box 8609 Wichita, Ks 67208)

LEASE AND WELL NO. Carson #1-1 COUNTY Clark STATE Ks Sec. 1 Twp. 31 Rge. 22W

Mail Invoice To Same #1-1 CARSON No. Copies Requested 5

Mail Charts To Same No. Copies Requested 5

Formation Test No. 1 Interval Tested From 5224 ft. to 5268 ft. Total Depth 5268 ft.

Packer Depth 5219 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth 5224 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 5257 ft. Recorder Number 13547 Cap. 4225

Bottom Recorder Depth (Outside) 5260 ft. Recorder Number 13552 Cap. 4050

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

Drilling Contractor Eagle Rig #1 Drill Collar Length 549 I. D. 2 1/4 in.

Mud Type Chemical-Orispac Viscosity 46 Weight Pipe Length - I. D. - in.

Weight 9.2 Water Loss 11.2 cc. Drill Pipe Length 4646 I. D. 3.8 in.

Chlorides 15,000 P.P.M. Test Tool Length 29 ft. Tool Size 5/200 in.

Jars: Make WTC Serial Number 410 Anchor Length 44 ft. Size 5/200 in.

Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

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

Blow: Weak increased to fair blow on first flow period

Strong blow throughout second flow period

Recovered 20 ft. of Drig Mud

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Remarks: \_\_\_\_\_

RECEIVED JUL 11 1983

Time On Location 8:00 A.M. Time Pick Up Tool 9:00 P.M. Time Off Location 4:30 P.M.

Time Set Packer(s) 10:30 A.M. Time Started Off Bottom 1:45 P.M. Maximum Temperature 130°

Initial Hydrostatic Pressure (A) 2537 P.S.I.

Initial Flow Period Minutes 15 (B) 63 P.S.I. to (C) 63 P.S.I.

Initial Closed In Period Minutes 30 (D) 307 P.S.I.

Final Flow Period Minutes 60 (E) 63 P.S.I. to (F) 63 P.S.I.

Final Closed In Period Minutes 90 (G) 850 P.S.I.

Final Hydrostatic Pressure (H) 2516 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 Jim Wondra Thank You

FIELD INVOICE

Open Hole Test \$ 1650.00
Misrun \$
Straddle Test \$
Jars \$ 200.00
Selective Zone \$
Safety Joint \$ 165.00
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage \$
Fluid Sampler \$
Extra Charts \$
Insurance \$ 150.00
Telecopier \$
TOTAL \$ 1065.00

# WESTERN TESTING CO., INC.

## Pressure Data

Date: 7-6 Recorder No. 13547 Capacity 4225 Test Ticket No. 19030  
 Clock No. --- Elevation --- Location 5257 Ft. Well Temperature 130 °F

Point	Pressure	P.S.I.	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2546</u>	P.S.I.		<u>10:30 P</u>	<u>M</u>
B First Initial Flow Pressure	<u>64</u>	P.S.I.	First Flow Pressure	<u>15</u> Mins.	<u>10</u> Mins.
C First Final Flow Pressure	<u>64</u>	P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>301</u>	P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>55</u> Mins.
E Second Initial Flow Pressure	<u>65</u>	P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>87</u> Mins.
F Second Final Flow Pressure	<u>65</u>	P.S.I.			
G Final Closed-in Pressure	<u>854</u>	P.S.I.			
H Final Hydrostatic Mud	<u>2538</u>	P.S.I.			

### PRESSURE BREAKDOWN

First Flow Pressure  
 Breakdown: 3 Inc.  
 of 5 mins. and a  
 final inc. of 0 Min.

Initial Shut-In  
 Breakdown: 11 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: 30 Inc.  
 of 3 mins. and a  
 final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>64</u>	0	<u>64</u>	0	<u>65</u>	0	<u>65</u>
P 2 5	<u>64</u>	3	<u>110</u>	5		3	<u>102</u>
P 3 10	<u>64</u>	6	<u>150</u>	10		6	<u>138</u>
P 4 15		9	<u>184</u>	15		9	<u>172</u>
P 5 20		12	<u>214</u>	20		12	<u>206</u>
P 6 25		15	<u>236</u>	25		15	<u>237</u>
P 7 30		18	<u>256</u>	30		18	<u>271</u>
P 8 35		21	<u>273</u>	35		21	<u>303</u>
P 9 40		24	<u>286</u>	40		24	<u>334</u>
P10 45		27	<u>298</u>	45		27	<u>362</u>
P11 50		30	<u>301</u>	50		30	<u>392</u>
P12 55		33		55	<u>65</u>	33	<u>426</u>
P13 60		36		60		36	<u>450</u>
P14		39		65		39	<u>480</u>
P15		42		70		42	<u>511</u>
P16		45		75		45	<u>538</u>
P17		48		80		48	<u>563</u>
P18		51		85		51	<u>590</u>
P19		54		90		54	<u>618</u>
P20		57				57	<u>643</u>
WTC - 4		60				60	<u>666</u>

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**WESTERN TESTING CO., INC.**  
**Pressure Data**

Date \_\_\_\_\_

Test Ticket No. 19030

Recorder No. \_\_\_\_\_ Capacity \_\_\_\_\_ Location \_\_\_\_\_

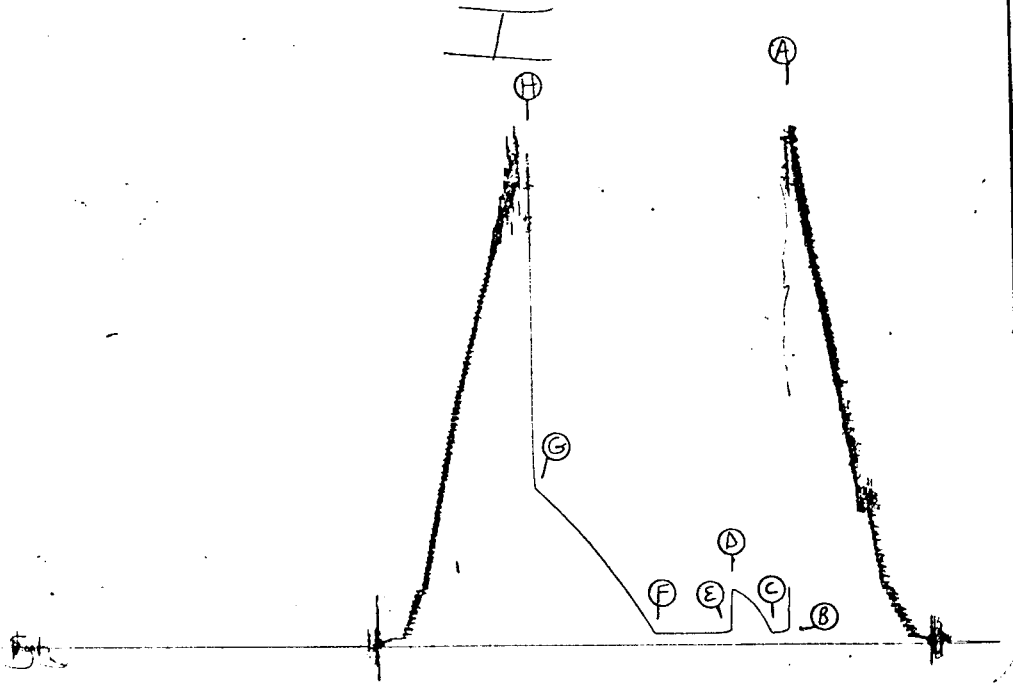
Clock No. \_\_\_\_\_ Elevation \_\_\_\_\_ Well Temperature \_\_\_\_\_ °

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.	_____ Min.
C First Final Flow Pressure _____	P.S.I.	Initial Closed-in Pressure	_____ Mins.	_____ Min.
D Initial Closed-in Pressure _____	P.S.I.	Second Flow Pressure	_____ Mins.	_____ Min.
E Second Initial Flow Pressure _____	P.S.I.	Final Closed-in Pressure	_____ Mins.	_____ Min.
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**

Point Mins.	First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In
	Breakdown: _____ Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: _____ Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: _____ Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: _____ Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
	Press.	Point Minutes	Point Minutes	Point Minutes
P 1 _____	_____	63	_____	63
P 2 _____	_____	66	_____	66
P 3 _____	_____	69	_____	69
P 4 _____	_____	72	_____	72
P 5 _____	_____	75	_____	75
P 6 _____	_____	78	_____	78
P 7 _____	_____	81	_____	81
P 8 _____	_____	84	_____	84
P 9 _____	_____	87	_____	87
P10 _____	_____	90	_____	90
P11 _____	_____	93	_____	93
P12 _____	_____	96	_____	96
P13 _____	_____	99	_____	99
P14 _____	_____	102	_____	102
P15 _____	_____	105	_____	105
P16 _____	_____	108	_____	108
P17 _____	_____	111	_____	111
P18 _____	_____	114	_____	114
P19 _____	_____	117	_____	117
P20 _____	_____	120	_____	120

TKT # 19030



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2537	2546	PSI
(B) First Initial Flow Pressure	63	64	PSI
(C) First Final Flow Pressure	63	64	PSI
(D) Initial Closed-in Pressure	307	301	PSI
(E) Second Initial Flow Pressure	63	65	PSI
(F) Second Final Flow Pressure	63	65	PSI
(G) Final Closed-in Pressure	850	854	PSI
(H) Final Hydrostatic Mud	2516	2538	PSI

WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE: 7/6/83 TICKET #19030  
CUSTOMER: CHEYENNE PETROELUM COMPANY LEASE: CARSON  
WELL: 1-1 TEST: 1 GEOLOGIST:  
ELEVATION (KB): 0 FORMATION: MORROW SAND  
SECTION: 1 TOWNSHIP: 31S '  
RANGE: 22W COUNTY: CLARK STATE: KANSAS  
GAUGE SN #13547 RANGE: 4225 CLOCK: 12

INTERVAL TEST FROM: 5224 FT TO: 5268 FT TOTAL DEPTH: 5268 FT  
DEPTH OF SELECTIVE ZONE: FT  
PACKER DEPTH: 5219 FT SIZE: 6 5/8 IN PACKER DEPTH: 5224 FT SIZE: 6 5/8 IN  
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: EAGLE  
MUD TYPE: CHEM-DRIS. VISCOSITY: 46  
WEIGHT: 9.2 WATER LOSS (CC): 11.2  
CHLORIDES (P.P.M.): 15000  
JARS - MAKE: WTC SERIAL NUMBER: 410  
DID WELL FLOW? NO REVERSED OUT? NO  
DRILL COLLAR LENGTH: 549 FT I.D.: 2 1/4 IN  
WEIGHT PIPE LENGTH: FT I.D.: IN  
DRILL PIPE LENGTH: 4646 FT I.D.: 3.8 IN  
TEST TOOL LENGTH: 29 FT TOOL SIZE: 5 1/2 OD IN  
ANCHOR LENGTH: 44 FT SIZE: 5 1/2 OD 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: INITIAL FLOW PERIOD WEAK INCREASED  
TO FAIR BLOW.  
FINAL FLOW PERIOD STRONG BLOW  
THROUGHOUT.

RECOVERED: 20 FT OF: DRILLING MUD  
RECOVERED: FT OF:  
RECOVERED: FT OF:  
RECOVERED: FT OF:  
RECOVERED: FT OF:  
RECOVERED: FT OF:  
RECOVERED: FT OF:  
RECOVERED: FT OF:  
RECOVERED: FT OF:  
RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 10:30 PM TIME STARTED OFF BOTTOM: 1:45 AM  
WELL TEMPERATURE: 130 °F  
INITIAL HYDROSTATIC PRESSURE: (A) 2546 PSI  
INITIAL FLOW PERIOD MIN: 10 (B) 64 PSI TO (C) 64 PSI  
INITIAL CLOSED IN PERIOD MIN: 30 (D) 301 PSI  
FINAL FLOW PERIOD MIN: 55 (E) 65 PSI TO (F) 65 PSI  
FINAL CLOSED IN PERIOD MIN: 87 (G) 854 PSI  
FINAL HYDROSTATIC PRESSURE (H) 2538 PSI

