



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No. 7328

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

Elevation _____ Formation Miss Eff. Pay _____ Ft.

WICHITA, KANSAS 67201 District Pratt Date 11-12-84 Customer Order No. _____

COMPANY NAME Case Oil + Gas

ADDRESS 107 W. Fourth 2nd Pratt KS 67124

LEASE AND WELL NO. Gilmore #1 COUNTY Barber STATE KS Sec. 21 Twp 33s Rge. 11w

Mail Invoice To Same No. Copies Requested Reg

Mail Charts To Same #1 Gilmore Address _____ No. Copies Requested Reg

Formation Test No. 1 Interval Tested From 4444 ft. to 4490 ft. Total Depth 4490 ft.

Packer Depth 4439 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 4444 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4480 ft. Recorder Number 13402 Cap. 4025

Bottom Recorder Depth (Outside) 4483 ft. Recorder Number 1559 Cap. 4200

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

Drilling Contractor Aldebaran #2 Drill Collar Length 540 I. D. 2.2 in.

Mud Type Chem Viscosity 44 Weight Pipe Length _____ I. D. _____ in.

Weight 9.4 Water Loss 11.2 cc. Drill Pipe Length 3884 I. D. 3.8 in.

Chlorides 5100 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.

Jars: Make _____ Serial Number _____ Anchor Length 46 ft. Size 5 1/2 OD in.

Did Well Flow? NO Reversed Out NO Surface Choke Size 7/4 in. Bottom Choke Size 7/4 in.

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

Blow: Strong thru Both Flow Periods.

Recovered 180 ft. of Slight odor of Gas in Pipe

Recovered 20 ft. of Gas Cut Mud

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Chlorides _____ P.P.M. Sample Jars used 1 Remarks: _____

Time On Location 11:00 A.M. Time Pick Up Tool 1:00 P.M. Time Off Location 7:30 P.M.

Time Set Packer(s) 2:50 P.M. Time Started Off Bottom 5:20 P.M. Maximum Temperature 120"

Initial Hydrostatic Pressure _____ (A) 2188 P.S.I.

Initial Flow Period _____ Minutes 30 (B) 49 P.S.I. to (C) 59 P.S.I.

Initial Closed In Period _____ Minutes 45 (D) 571 P.S.I.

Final Flow Period _____ Minutes 30 (E) 49 P.S.I. to (F) 49 P.S.I.

Final Closed In Period _____ Minutes 45 (G) 719 P.S.I.

Final Hydrostatic Pressure _____ (H) 2188 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 Michael Fletcher Signature of Customer or his authorized representative

Western Representative Jeff Pritchard 1625

Thank you

FIELD INVOICE

Table with 2 columns: Item, Amount. Includes Open Hole Test (\$595.00), Misrun, Straddle Test, Jars, Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Mileage, Fluid Sampler, Extra Charts, Insurance, Telecopier, TOTAL (\$595.00).

WESTERN TESTING CO., INC.

Pressure Data

Date 11-12-84 Test Ticket No. 7328
 Recorder No. 13402 Capacity 4025 Location _____
 Clock No. _____ Elevation _____ Well Temperature _____

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2244</u>	P.S.I.		M
B First Initial Flow Pressure	<u>51</u>	P.S.I.	<u>30</u> Mins.	
C First Final Flow Pressure	<u>60</u>	P.S.I.	<u>45</u> Mins.	
D Initial Closed-in Pressure	<u>576</u>	P.S.I.	<u>30</u> Mins.	
E Second Initial Flow Pressure	<u>52</u>	P.S.I.	<u>45</u> Mins.	
F Second Final Flow Pressure	<u>52</u>	P.S.I.		
G Final Closed-in Pressure	<u>727</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2188</u>	P.S.I.		

Plugging Action in I.F.P.

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 7 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Initial Shut-In
 Breakdown: 16 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

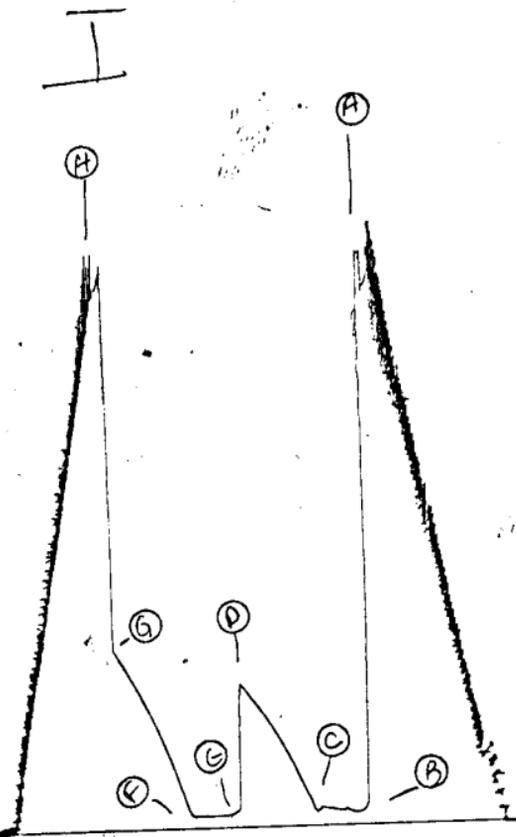
Second Flow Pressure
 Breakdown: 7 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 16 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>51</u>	0	<u>60</u>	0	<u>52</u>	0	<u>52</u>
P 2 5	<u>51</u>	3	<u>76</u>	5		3	<u>100</u>
P 3 10	<u>55</u>	6	<u>140</u>	10		6	<u>165</u>
P 4 15	<u>61</u>	9	<u>187</u>	15		9	<u>226</u>
P 5 20	<u>65</u>	12	<u>232</u>	20		12	<u>283</u>
P 6 25	<u>71</u>	15	<u>270</u>	25		15	<u>336</u>
P 7 30	60	18	<u>314</u>	30	<u>52</u>	18	<u>386</u>
P 8 35		21	<u>348</u>	35		21	<u>429</u>
P 9 40		24	<u>380</u>	40		24	<u>472</u>
P10 45		27	<u>415</u>	45		27	<u>513</u>
P11 50		30	<u>445</u>	50		30	<u>553</u>
P12 55		33	<u>472</u>	55		33	<u>595</u>
P13 60		36	<u>500</u>	60		36	<u>626</u>
P14		39	<u>527</u>	65		39	<u>662</u>
P15		42	<u>557</u>	70		42	<u>695</u>
P16		45	<u>576</u>	75		45	<u>727</u>
P17		48		80		48	
P18		51		85		51	
P19		54		90		54	
P20		57				57	
		60				60	

13402
DST#1

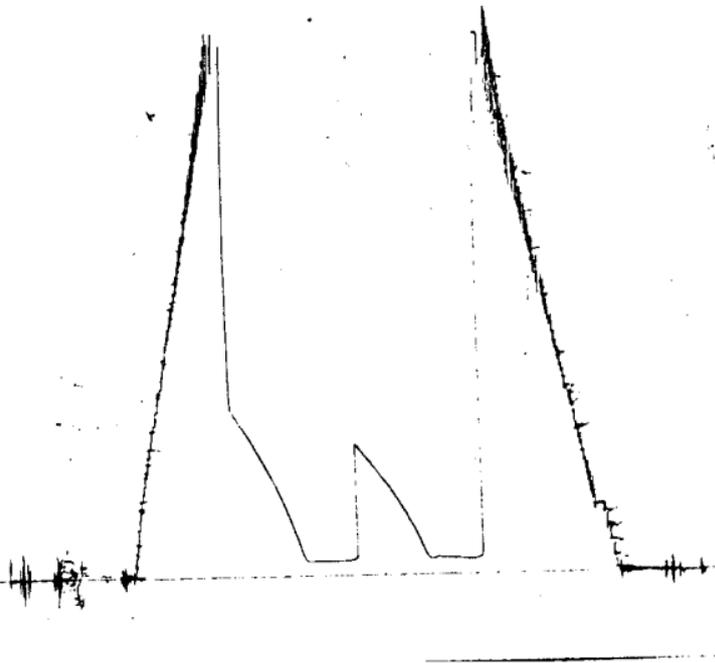
TIC# 7328



1557
DST #1

-K[#] 7328

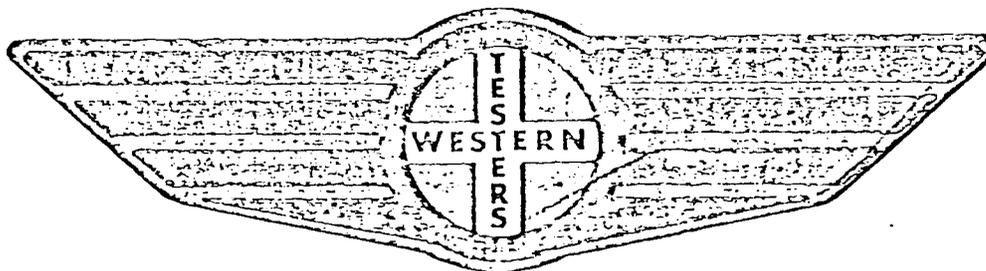
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FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 11/12/84 TICKET #7328
CUSTOMER: CASE OIL AND GAS LEASE: GILMORE
WELL: 1 TEST: 1 GEOLOGIST: FLETCHER
ELEVATION (KB): 0 FORMATION: MISSISSIPPI
SECTION: 21 TOWNSHIP: 33S
RANGE: 11W COUNTY: BARBER STATE: KANSAS
GAUGE SN #13402 RANGE: 4025 CLOCK: 12

INTERVAL TEST FROM: 4444 FT TO: 4490 FT TOTAL DEPTH: 4490 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4439 FT SIZE: 6 3/4 IN PACKER DEPTH: 4444 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: ALDEBARAN DRLG
MUD TYPE: CHEMICAL VISCOSITY: 44
WEIGHT: 9.4 WATER LOSS (CC): 11.2
CHLORIDES (P.P.M.): 5100
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 540 FT I.D.: 2.2 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 3884 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 46 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 XH IN

BLOW: STRONG BLOW THROUGHOUT TEST.

RECOVERED: 180 FT OF: SLIGHT ODOR OF GAS ABOVE FLUID.
RECOVERED: 20 FT OF: GAS CUT MUD.
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS: PLUGGING ACTION IN THE INITIAL
FLOW PERIOD.

TIME SET PACKER(S): 2:50 PM TIME STARTED OFF BOTTOM: 5:20 PM
WELL TEMPERATURE: 120 °F
INITIAL HYDROSTATIC PRESSURE: (A) 2244 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 51 PSI TO (C) 60 PSI
INITIAL CLOSED IN PERIOD MIN: 45 (D) 576 PSI
FINAL FLOW PERIOD MIN: 30 (E) 52 PSI TO (F) 52 PSI
FINAL CLOSED IN PERIOD MIN: 45 (G) 727 PSI
FINAL HYDROSTATIC PRESSURE (H) 2188 PSI



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No. 7329

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

Elevation _____ Formation Miss. Eff. Pay _____ Ft.

C065 District Pratt Date 11-13-84 Customer Order No.
COMPANY NAME Case Oil & Gas
ADDRESS 107 W Fourth 2nd Pratt KS 67124
LEASE AND WELL NO. Gilmore #1 COUNTY Barber STATE KS Sec. 21 Twp. 33 Rge. 11W
Mail Invoice To Same Co. Name No. Copies Requested Reg
Mail Charts To Same #1 Gilmore Address No. Copies Requested Reg

Formation Test No. 2 Interval Tested From 4508 ft. to 4555 ft. Total Depth 4555 ft.
Packer Depth 4503 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 4508 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____
Top Recorder Depth (Inside) 4545 ft. Recorder Number 13402 Cap. 4025
Bottom Recorder Depth (Outside) 4548 ft. Recorder Number 1559 Cap. 4200
Below Saddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____

Drilling Contractor Aldebaran #2 Drill Collar Length 540 I. D. 2.2 in.
Mud Type Chem Viscosity 48 Weight Pipe Length _____ I. D. _____ in.
Weight 9.4 Water Loss 11.2 cc. Drill Pipe Length 3948 I. D. 3.8 in.
Chlorides 5,100 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.
Jars: Make _____ Serial Number _____ Anchor Length 47 ft. Size 5 1/2 OD in.
Did Well Flow? NO Reversed Out NO Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
Main Hole Size 5 7/8 in. Tool Joint Size 4 1/2 x 1 1/2 in.

Blow: Strong thru Both Flow Periods

Recovered 60 ft. of Gas In Pip
Recovered 180 ft. of Watery Muddy Oil 35% M. 35% W 15% O 15% G.
Recovered 1000 ft. of Slightly Oil Cut Water 3% Oil
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Chlorides 59,000 P.P.M. Sample Jars used 4 Remarks:

Time On Location 4:30 A.M. Time Pick Up Tool 5:30 P.M. Time Off Location 2:00 P.M.
Time Set Packer(s) 7:30 A.M. Time Started Off Bottom 11:00 A.M. Maximum Temperature 124°
Initial Hydrostatic Pressure (A) 2309 P.S.I.
Initial Flow Period Minutes 45 (B) 98 P.S.I. to (C) 364 P.S.I.
Initial Closed In Period Minutes 60 (D) 2820 P.S.I.
Final Flow Period Minutes 45 (E) 393 P.S.I. to (F) 531 P.S.I.
Final Closed In Period Minutes 60 (G) 2820 P.S.I.
Final Hydrostatic Pressure (H) 2309 P.S.I.

COMPANY TERMS

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Test Approved By Michael Fletcher Signature of Customer or his authorized representative
Western Representative [Signature] 1625
Thank you

FIELD INVOICE

Open Hole Test \$ 595.00
Misrun \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage \$
Fluid Sampler \$
Extra Charts \$
Insurance \$
Telecopier \$
TOTAL \$ 595.00

WESTERN TESTING CO., INC.

Pressure Data

Date: 11-13-84 Test Ticket No. 7329
 Recorder No. 13402 Capacity 4025 Location _____
 Clock No. _____ Elevation _____ Well Temperature _____

Point	Pressure	P.S.I.	Open Tool	M	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2319</u>	P.S.I.				
B First Initial Flow Pressure	<u>100</u>	P.S.I.	First Flow Pressure		<u>45</u> Mins.	
C First Final Flow Pressure	<u>358</u>	P.S.I.	Initial Closed-in Pressure		<u>60</u> Mins.	
D Initial Closed-in Pressure	<u>2800</u>	P.S.I.	Second Flow Pressure		<u>45</u> Mins.	
E Second Initial Flow Pressure	<u>405</u>	P.S.I.	Final Closed-in Pressure		<u>60</u> Mins.	
F Second Final Flow Pressure	<u>538</u>	P.S.I.				
G Final Closed-in Pressure	<u>2830</u>	P.S.I.				
H Final Hydrostatic Mud	<u>2319</u>	P.S.I.				

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 10 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Initial Shut-In
 Breakdown: 21 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

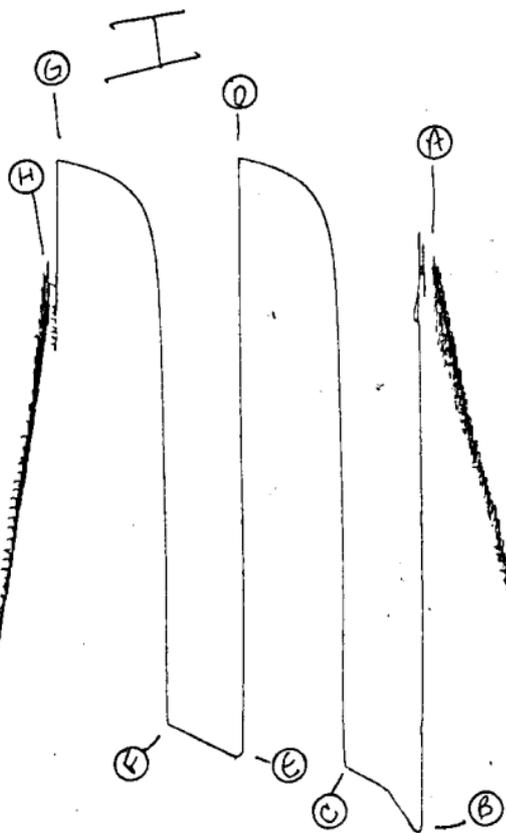
Second Flow Pressure
 Breakdown: 10 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 21 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	<u>0</u>	<u>100</u>	<u>0</u>	<u>358</u>	<u>0</u>	<u>405</u>	<u>0</u>	<u>538</u>
P 2	<u>5</u>	<u>100</u>	<u>3</u>	<u>1921</u>	<u>5</u>	<u>405</u>	<u>3</u>	<u>1896</u>
P 3	<u>10</u>	<u>163</u>	<u>6</u>	<u>2368</u>	<u>10</u>	<u>419</u>	<u>6</u>	<u>2386</u>
P 4	<u>15</u>	<u>214</u>	<u>9</u>	<u>2516</u>	<u>15</u>	<u>439</u>	<u>9</u>	<u>2518</u>
P 5	<u>20</u>	<u>263</u>	<u>12</u>	<u>2582</u>	<u>20</u>	<u>455</u>	<u>12</u>	<u>2593</u>
P 6	<u>25</u>	<u>285</u>	<u>15</u>	<u>2629</u>	<u>25</u>	<u>473</u>	<u>15</u>	<u>2640</u>
P 7	<u>30</u>	<u>305</u>	<u>18</u>	<u>2664</u>	<u>30</u>	<u>492</u>	<u>18</u>	<u>2667</u>
P 8	<u>35</u>	<u>324</u>	<u>21</u>	<u>2692</u>	<u>35</u>	<u>512</u>	<u>21</u>	<u>2691</u>
P 9	<u>40</u>	<u>344</u>	<u>24</u>	<u>2713</u>	<u>40</u>	<u>526</u>	<u>24</u>	<u>2726</u>
P10	<u>45</u>	<u>358</u>	<u>27</u>	<u>2730</u>	<u>45</u>	<u>538</u>	<u>27</u>	<u>2745</u>
P11	<u>50</u>		<u>30</u>	<u>2744</u>	<u>50</u>		<u>30</u>	<u>2761</u>
P12	<u>55</u>		<u>33</u>	<u>2757</u>	<u>55</u>		<u>33</u>	<u>2773</u>
P13	<u>60</u>		<u>36</u>	<u>2765</u>	<u>60</u>		<u>36</u>	<u>2783</u>
P14			<u>39</u>	<u>2777</u>	<u>65</u>		<u>39</u>	<u>2791</u>
P15			<u>42</u>	<u>2786</u>	<u>70</u>		<u>42</u>	<u>2799</u>
P16			<u>45</u>	<u>2794</u>	<u>75</u>		<u>45</u>	<u>2807</u>
P17			<u>48</u>	<u>2800</u>	<u>80</u>		<u>48</u>	<u>2813</u>
P18			<u>51</u>	<u>2806</u>	<u>85</u>		<u>51</u>	<u>2819</u>
P19			<u>54</u>	<u>2811</u>	<u>90</u>		<u>54</u>	<u>2825</u>
P20			<u>57</u>	<u>2816</u>			<u>57</u>	<u>2831</u>
			<u>60</u>	<u>2820</u>			<u>60</u>	<u>2836</u>

13402
DST# 2

HC71 7329

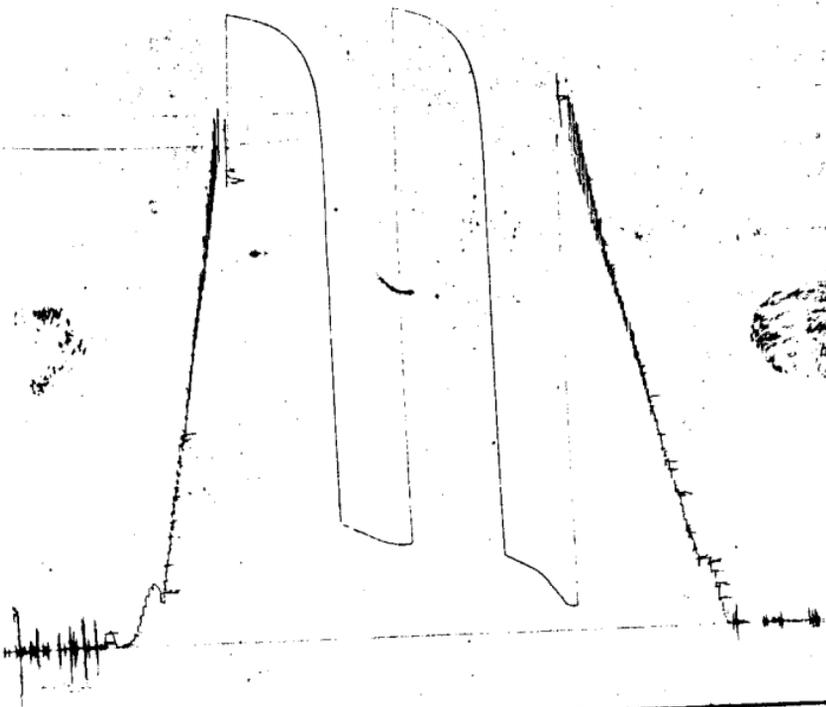


1559

DST # 2

TCR # 7329

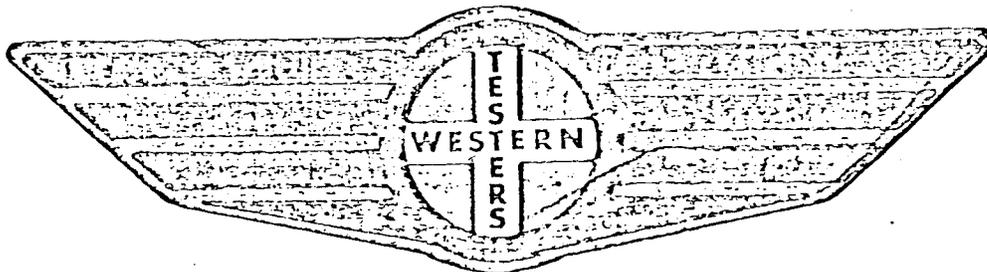
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FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 11/13/84 TICKET #7329
CUSTOMER: CASE OIL AND GAS LEASE: GILMORE
WELL: 1 TEST: 2 GEOLOGIST: FLETCHER
ELEVATION (KB): 0 FORMATION: MISSISSIPPI
SECTION: 21 TOWNSHIP: 33S
RANGE: 11W COUNTY: BARBER STATE: KANSAS
GAUGE SN #13402 RANGE: 4025 CLOCK: 12

INTERVAL TEST FROM: 4508 FT TO: 4555 FT TOTAL DEPTH: 4555 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4503 FT SIZE: 6 3/4 IN PACKER DEPTH: 4508 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: ALDEBARAN DRLG
MUD TYPE: CHEMICAL VISCOSITY: 48
WEIGHT: 9.4 WATER LOSS (CC): 11.2
CHLORIDES (P.P.M.): 5100
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 540 FT I.D.: 2.2 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 3948 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 47 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 XH IN

BLOW: STRONG BLOW THROUGHOUT TEST.

RECOVERED: 60 FT OF: GAS ABOVE FLUID.
RECOVERED: 180 FT OF: WATERY MUDDY OIL.
RECOVERED: FT OF: (35% MUD; 35% WATER; 15% OIL; 15% GAS).
RECOVERED: 1000 FT OF: SLIGHTLY OIL CUT WATER (3% OIL).
RECOVERED: FT OF: CHLORIDES 59000 PPM.
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 7:30 AM TIME STARTED OFF BOTTOM: 11:00 AM
WELL TEMPERATURE: 124 °F
INITIAL HYDROSTATIC PRESSURE: (A) 2319 PSI
INITIAL FLOW PERIOD MIN: 45 (B) 100 PSI TO (C) 358 PSI
INITIAL CLOSED IN PERIOD MIN: 60 (D) 2820 PSI
FINAL FLOW PERIOD MIN: 45 (E) 405 PSI TO (F) 538 PSI
FINAL CLOSED IN PERIOD MIN: 60 (G) 2836 PSI
FINAL HYDROSTATIC PRESSURE (H) 2319 PSI



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET NO 7330 OK

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

Elevation _____ Formation Miss Eff. Pay _____ Ft.

District Pratt Date 11-15-84 Customer Order No. _____

COMPANY NAME Case Oil & Gas

ADDRESS 107 W. Fourth, Pratt KS 67124

LEASE AND WELL NO. Gilmore #1 COUNTY Barber STATE KS Sec. 21 Twp. 33 Rge. 11w

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

Mail Charts To Same Address No. Copies Requested Reg

Formation Test No. 3 Interval Tested From 4532 ft. to 4542 ft. Total Depth 4785 ft.

Packer Depth 4527 ft. Size 6 3/4 in. Packer Depth 4542 ft. Size 6 3/4 in.

Packer Depth 4532 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4535 13402 ft. Recorder Number 13402 Cap. 4025

Bottom Recorder Depth (Outside) 4538 1559 ft. Recorder Number 1559 Cap. 4200

Below Saddle Recorder Depth 4782 ft. Recorder Number _____ Cap. _____

Drilling Contractor Aldebarsn #2 Drill Collar Length 540 I. D. 2.2 in.

Mud Type Chem Viscosity 42 Weight Pipe Length _____ I. D. _____ in.

Weight 9.1 Water Loss 10.8 cc. Drill Pipe Length 4215 I. D. 3.8 in.

Chlorides 9,100 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.

Jars: Make _____ Serial Number _____ Anchor Length 10 ft. Size 5 1/2 OD in.

Did Well Flow? NO Reversed Out NO 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 14 in.

Blow: Fair thru Both Flow Periods

Recovered 120 ft. of Gss In Pipe

Recovered 10 ft. of Watery Oil - 10% M 20% W 30% O 40% G.

Recovered 110 ft. of Slightly Oil Cut Muddy Water 35% M 55% W 3% O 7% G.

Recovered 220 ft. of Slightly Oil Cut Water 3% Oil

Recovered _____ ft. of _____

Chlorides _____ P.P.M. Sample Jars used 4 Remarks: Slid tool 15' to Bottom

Moved tool 10 min before starting out

Time On Location 1:00 AM/PM Time Pick Up Tool 4:00 AM/PM Time Off Location 12:30 AM/PM

Time Set Packer(s) 6:50 AM/PM Time Started Off Bottom 9:20 AM/PM Maximum Temperature 124°

Initial Hydrostatic Pressure (A) 2178 P.S.I.

Initial Flow Period Minutes 30 (B) 68 P.S.I. to (C) 137 P.S.I.

Initial Closed In Period Minutes 45 (D) 2800 P.S.I.

Final Flow Period Minutes 30 (E) 167 P.S.I. to (F) 196 P.S.I.

Final Closed In Period Minutes 45 (G) 2800 P.S.I.

Final Hydrostatic Pressure (H) 2178 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 Michael Fletcher Signature of Customer or his authorized representative

Western Representative [Signatures]

FIELD INVOICE

Table with 2 columns: Item, Amount. Includes Open Hole Test (\$595.00), Misrun, Straddle Test (\$300.00), Jars, Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Mileage, Fluid Sampler, Extra Charts, Insurance, Telecopier, TOTAL (\$895.00).

WESTERN TESTING CO., INC.

Pressure Data

Date: 11-15-84 Test Ticket No. 7330
 Recorder No. 13462 Capacity 4025 Location _____
 Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Unit	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2154</u>	P.S.I.			M
B First Initial Flow Pressure	<u>61</u>	P.S.I.	First Flow Pressure	<u>30</u> Mins.	_____ Mins.
C First Final Flow Pressure	<u>130</u>	P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	_____ Mins.
D Initial Closed-in Pressure	<u>2795</u>	P.S.I.	Second Flow Pressure	<u>30</u> Mins.	_____ Mins.
E Second Initial Flow Pressure	<u>167</u>	P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	_____ Mins.
F Second Final Flow Pressure	<u>194</u>	P.S.I.			
G Final Closed-in Pressure	<u>2793</u>	P.S.I.			
H Final Hydrostatic Mud	<u>2151</u>	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 7 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Initial Shut-In
 Breakdown: 14 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Second Flow Pressure
 Breakdown: 7 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

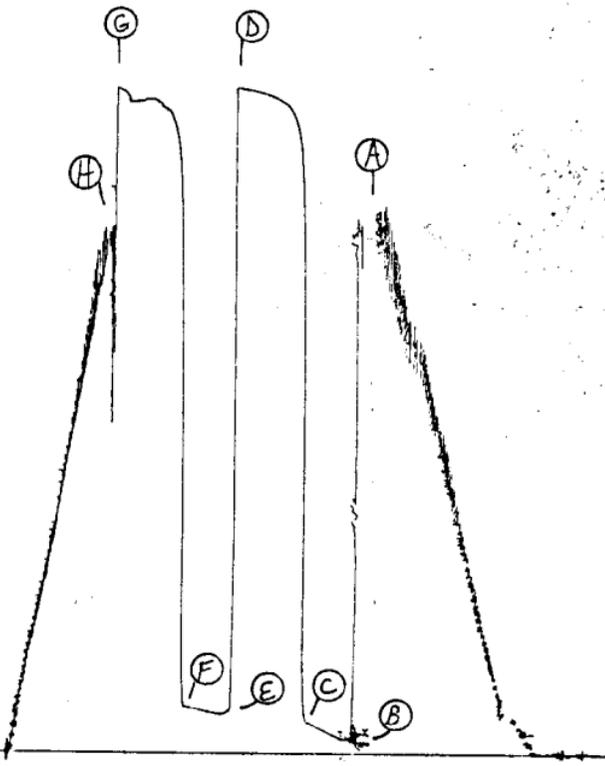
Final Shut-In
 Breakdown: 14 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>61</u>	0	<u>130</u>	0	<u>167</u>	0	<u>196</u>
P 2 5	<u>62</u>	3	<u>2020</u>	5	<u>167</u>	3	<u>2128</u>
P 3 10	<u>74</u>	6	<u>2592</u>	10	<u>172</u>	6	<u>2574</u>
P 4 15	<u>90</u>	9	<u>2667</u>	15	<u>179</u>	9	<u>2656</u>
P 5 20	<u>108</u>	12	<u>2708</u>	20	<u>189</u>	12	<u>2698</u>
P 6 25	<u>124</u>	15	<u>2728</u>	25	<u>195</u>	15	<u>2710</u>
P 7 30	<u>130</u>	18	<u>2743</u>	30	<u>194</u>	18	<u>2733</u>
P 8 35		21	<u>2755</u>	35		21	<u>2747</u>
P 9 40		24	<u>2764</u>	40		24	<u>2748</u>
P10 45		27	<u>2772</u>	45		27	<u>2745</u>
P11 50		30	<u>2778</u>	50		30	<u>2739</u>
P12 55		33	<u>2782</u>	55		33	<u>2737</u>
P13 60		36	<u>2787</u>	60		36	<u>2735</u>
P14		39	<u>2791</u>	65		39	<u>2779</u>
P15		42	<u>2793</u>	70		42	<u>2790</u>
P16		45	<u>2795</u>	75		45	<u>2793</u>
P17		48		80		48	
P18		51		85		51	
P19		54		90		54	
P20		57				57	
		60				60	

13402
DST # 3

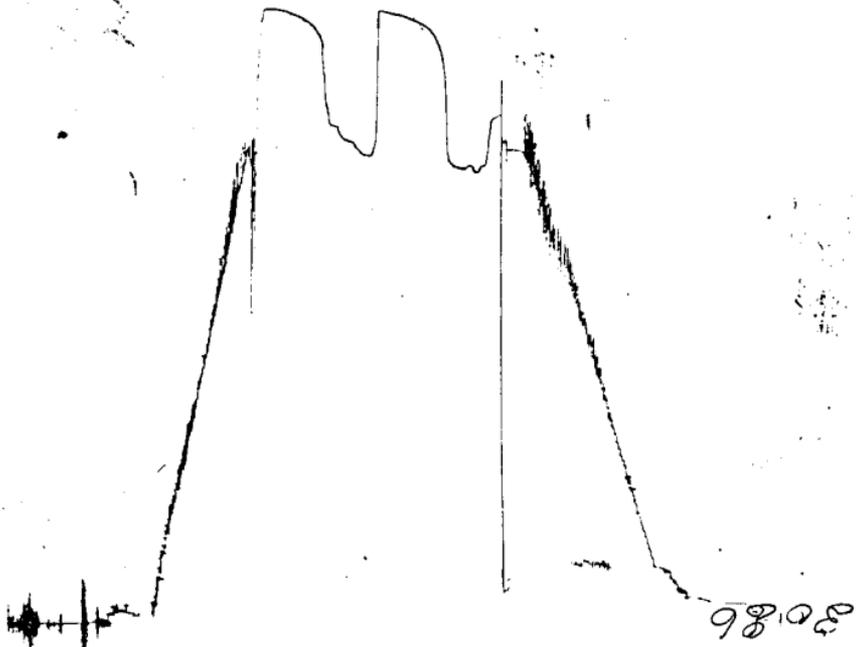
TKT. # 7330

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3086
DST # 3

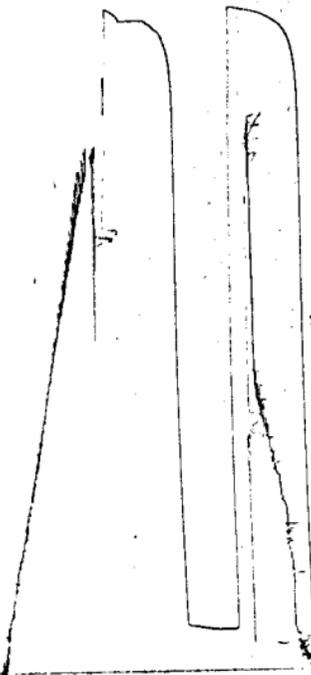
TKT # 7330
Below straddle



1559
DST#3

TKT. #. 7330

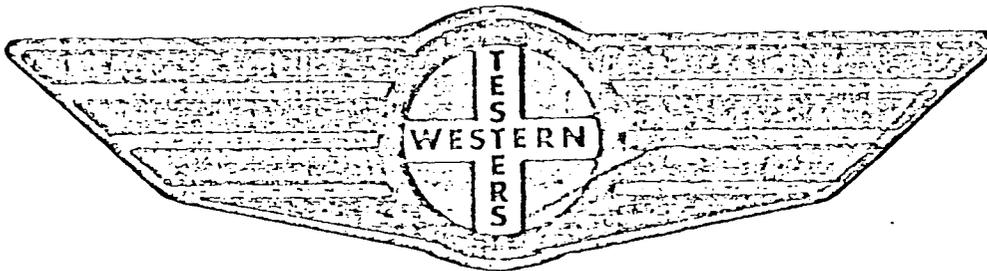
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FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company _____ CASE OIL & GAS _____ Lease and Well No. #1 GILMORE _____ Sec. 21 _____ Twp. 33S Rge. 11W Test No. 3 _____ Date 11/15/

WESTERNTTESTING COPMANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 11/15/84
CUSTOMER: CASE OIL & GAS
WELL: 1
ELEVATION (KB): 0
SECTION: 21
RANGE: 11W
GAUGE SN #13402

TEST: 3
FORMATION: MISSISSIPPIAN
TOWNSHIP: 33S
COUNTY: BARBER
RANGE: 4025

TICKET #7330
LEASE: GILMORE
GEOLOGIST: FLETCHER
STATE: KS
CLOCK: 12

INTERVAL TEST FROM: 4532 FT TO: 4542 FT TOTAL DEPTH: 4785 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4527 FT SIZE: 6 3/4 IN PACKER DEPTH: 4532 FT SIZE: 6 3/4 IN
PACKER DEPTH: 4542 FT SIZE: 6 3/4 IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: ALDEBARAN
MUD TYPE: CHEMICAL VISCOSITY: 42
WEIGHT: 9.1 WATER LOSS (CC): 10.8
CHLORIDES (P.P.M.): 9100
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 340 FT I.D.: 2.2 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 4215 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 10 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 XH IN

BLOW: INITIAL FLOW PERIOD FAIR BLOW
FINAL FLOW PERIOD FAIR BLOW

RECOVERED: 120 FT OF: GAS IN PIPE
RECOVERED: 10 FT OF: WTRY OIL (10% M; 20% W; 30% O; 40% G)
RECOVERED: 110 FT OF: SLY OIL CUT MUDDY WATER (35% M; 55% W; 3% O;
RECOVERED: FT OF: 7% G)
RECOVERED: 270 FT OF: SLY OIL CUT WATER (3% OIL)
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS: SLID TOOL 15' TO BOTTOM MOVED TOOL 10 MINUTES
BEFORE STARTING OUT

TIME SET PACKER(S): 6:50 AM TIME STARTED OFF BOTTOM: 9:20 AM
WELL TEMPERATURE: 124 'F
INITIAL HYDROSTATIC PRESSURE: (A) 2156 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 61 PSI TO (C) 130 PSI
INITIAL CLOSED IN PERIOD MIN: 45 (D) 2795 PSI
FINAL FLOW PERIOD MIN: 30 (E) 167 PSI TO (F) 196 PSI
FINAL CLOSED IN PERIOD MIN: 45 (G) 2793 PSI
FINAL HYDROSTATIC PRESSURE (H) 2151 PSI

