



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET NO 7652

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

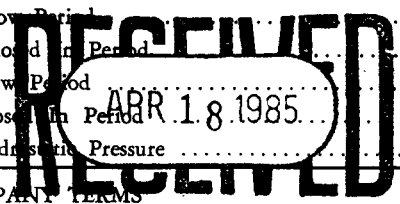
Elevation 2199 GL Formation Cherokee Eff. Pay Ft.

District 16 Dodge City Date April 16, 1985 Customer Order No.
COMPANY NAME Rains and Williamson Oil Co. Inc.
ADDRESS 435 Page Court, 220 West Douglas Wichita KS. 67202
LEASE AND WELL NO. LOBO Cattle #2 COUNTY Edwards STATE KS. Sec. 13 Twp. 25 Rge. 19
Mail Invoice To #2 LOBO CATTLE CO. No. Copies Requested Reg
Co. Name Address No. Copies Requested Reg

Formation Test No. 1 Interval Tested From 4576 ft. to 4601 ft. Total Depth 4601 ft.
Packer Depth 4571 ft. Size 6314 in. Packer Depth ft. Size in.
Packer Depth 4576 ft. Size 6314 in. Packer Depth ft. Size in.
Depth of Selective Zone Set
Top Recorder Depth (Inside) 4584 ft. Recorder Number 6235 Cap. 4000
Bottom Recorder Depth (Outside) 4592 ft. Recorder Number 13400 Cap. 3950
Below Saddle Recorder Depth ft. Recorder Number Cap.
Drilling Contractor Rains-Williamson Rig #3 Drill Collar Length 494 I. D. 2.2 in.
Mud Type Chemical Viscosity 43 Weight Pipe Length I. D. in.
Weight 9.1 Water Loss 10.8 cc. Drill Pipe Length 4050 I. D. 3.8 in.
Chlorides 8.000 P.P.M. Test Tool Length 29 ft. Tool Size 51200 in.
Jars: Make Western Serial Number 414 Anchor Length 25 ft. Size 51200 in.
Did Well Flow? NO Reversed Out NO Surface Choke Size 314 in. Bottom Choke Size 314 in.
Main Hole Size 2 7/8 in. Tool Joint Size 4 1/2 x H in.

Blow: IFF - Weak blow died in 15 min
FFP - no blow
Recovered 5 ft. of mud
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of
Chlorides 10.000 P.P.M. Sample Jars used 1 Remarks: Flushed tool FFP

Time On Location 5:45 A.M. Time Pick Up Tool 7:00 P.M. Time Off Location 4:00 P.M.
Time Set Packer(s) 10:10 A.M. Time Started Off Bottom 12:10 P.M. Maximum Temperature 136
Initial Hydrostatic Pressure (A) 2336 P.S.I.
Initial Flow Period Minutes 30 (B) 50 P.S.I. to (C) 50 P.S.I.
Initial Closed in Period Minutes 30 (D) 50 P.S.I.
Final Flow Period Minutes 30 (E) 50 P.S.I. to (F) 50 P.S.I.
Final Closed in Period Minutes 30 (G) 50 P.S.I.
Final Hydrostatic Pressure (H) 2316 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 Stephen M. Kreidler Kreidler
Signature of Customer or his authorized representative
Western Representative Mike Shubert 1940
Thank You!

FIELD INVOICE table with items: 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. Values include \$595, \$300, \$65, \$50, \$1010.

WESTERN TESTING CO., INC.

Pressure Data

Date 4-16-85 Test Ticket No. 7652
 Recorder No. 6233 Capacity 4000 Location _____ Ft
 Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	P.S.I.	Open Tool	M	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2343</u>	P.S.I.				
B First Initial Flow Pressure	<u>41</u>	P.S.I.	First Flow Pressure		<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>41</u>	P.S.I.	Initial Closed-in Pressure		<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>45</u>	P.S.I.	Second Flow Pressure		<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>41</u>	P.S.I.	Final Closed-in Pressure		<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>44</u>	P.S.I.				
G Final Closed-in Pressure	<u>44</u>	P.S.I.				
H Final Hydrostatic Mud	<u>2321</u>	P.S.I.				

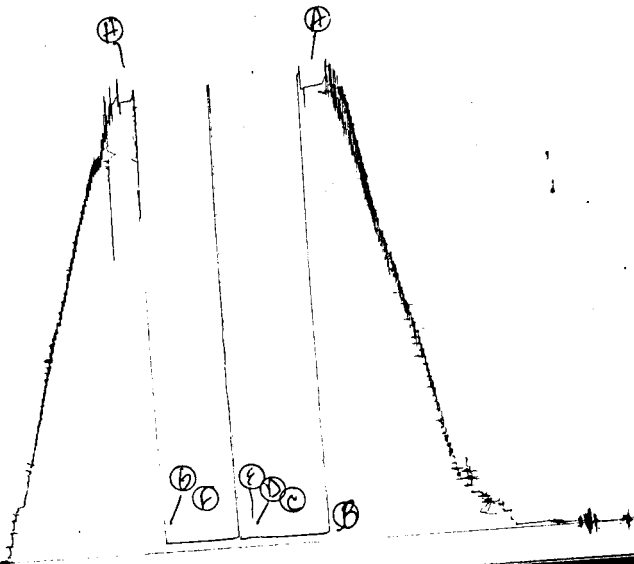
** flushed tool*

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure	Point Minutes	Initial Shut-In	Point Minutes	Second Flow Pressure	Point Minutes	Final Shut-In
	Breakdown: <u>7</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Breakdown: <u>11</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Breakdown: _____ Inc. of _____ 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.		Press.		Press.		Press.
P 1 0	<u>41</u>	0	<u>41</u>	0	<u>41</u>	0	<u>44</u>
P 2 5		3		3	<u>41</u>	3	<u>44</u>
P 3 10		6		6	<u>49</u>	6	
P 4 15		9		9	<u>47</u>	9	
P 5 20		12		12	<u>46</u>	12	
P 6 25		15		15	<u>45</u>	15	<u>44</u>
P 7 30	<u>41</u>	18		18	<u>44</u>	18	
P 8 35		21		21		21	
P 9 40		24		24		24	
P10 45		27		27		27	
P11 50		30		30		30	<u>44</u>
P12 55		33		33		33	
P13 60		36		36		36	
P14 65		39		39		39	
P15 70		42		42		42	
P16 75		45		45		45	
P17 80		48		48		48	
P18 85		51		51		51	
P19 90		54		54		54	
P20 95		57		57		57	
100		60		60		60	

6233

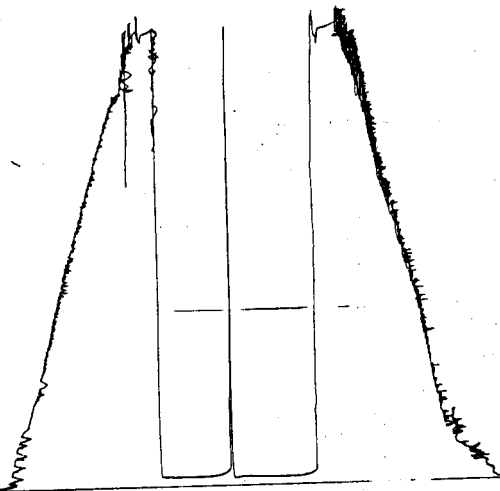
KA # 7652
I



13400

SK # 7652

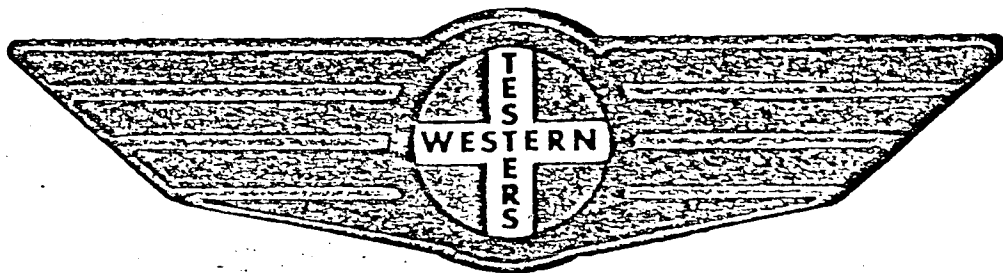
0



FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

mpany RAINS & WILLIAMSON OIL CO. INC. Lease & Well No. #2 LOBO CATTLE CO. Sec. 13 Twp. 25S Rge. 19W Test No. 1 Date 4/16/85

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 4-16-85 TICKET #7652
 CUSTOMER: RAINS & WILLIAMSON OIL CO INC LEASE: LOBO CATTLE CO.
 WELL: 2 TEST: 1 GEOLOGIST: S. KREIDLER
 ELEVATION (KB): 2204 FORMATION: CHEROKEE
 SECTION: 13 TOWNSHIP: 25S
 RANGE: 19W COUNTY: EDWARDS STATE: KANSAS
 GAUGE SN #6233 RANGE: 4000 CLOCK: 12

INTERVAL TEST FROM: 4576 FT TO: 4601 FT TOTAL DEPTH: 4601 FT
 DEPTH OF SELECTIVE ZONE: FT
 PACKER DEPTH: 4571 FT SIZE: 6 3/4 IN PACKER DEPTH: 4576 FT SIZE: 6 3/4 IN
 PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RAINS/WILLIAMSON #3
 MUD TYPE: CHEMICAL VISCOSITY: 43
 WEIGHT: 9.1+ WATER LOSS (CC): 10.8
 CHLORIDES (P.P.M.): 8000
 JARS - MAKE: WTC SERIAL NUMBER: 414
 DID WELL FLOW? NO REVERSED OUT? NO
 DRILL COLLAR LENGTH: 497 FT I.D.: 2.25 IN
 WEIGHT PIPE LENGTH: FT I.D.: IN
 DRILL PIPE LENGTH: 4050 FT I.D.: 3.8 IN
 TEST TOOL LENGTH: 29 FT TOOL SIZE: 5 1/2 OD IN
 ANCHOR LENGTH: 25 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 WEAK BLOW;
 DIED IN 15 MINUTES.
 FINAL FLOW PERIOD NO BLOW.*

RECOVERED: 5 FT OF: MUD.
 RECOVERED: FT OF: CHLORIDES 10000 PPM.
 RECOVERED: FT OF:
 RECOVERED: FT OF:
 RECOVERED: FT OF:
 RECOVERED: FT OF:
 RECOVERED: FT OF:
 RECOVERED: FT OF:
 RECOVERED: FT OF:

REMARKS: * FLUSHED TOOL FINAL FLOW PERIOD.

TIME SET PACKER(S): 10:10 PM TIME STARTED OFF BOTTOM: 12:10 AM
 WELL TEMPERATURE: 136 °F
 INITIAL HYDROSTATIC PRESSURE: (A) 2343 PSI
 INITIAL FLOW PERIOD MIN: 30 (B) 41 PSI TO (C) 41 PSI
 INITIAL CLOSED IN PERIOD MIN: 30 (D) 45 PSI
 FINAL FLOW PERIOD MIN: 30 (E) 41 PSI TO (F) 44 PSI
 FINAL CLOSED IN PERIOD MIN: 30 (G) 44 PSI
 FINAL HYDROSTATIC PRESSURE (H) 2321 PSI



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 7653 OK

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

Elevation 2199 GL Formation MISS Eff. Pay Ft.

District Dodge City Date April 16, 1985 Customer Order No.

COMPANY NAME Rains and Williamson Oil Co. Inc.

ADDRESS 435 Page Court, 220 West Douglas Wichita KS 67202

LEASE AND WELL NO. LOBO Cattle #2 COUNTY Edwards STATE KS Sec. 13 Twp. 25S Rge. 29W

Mail Invoice To #2 LOBO CATTLE Co. Same No. Copies Requested Reg

Mail Charts To Same Address No. Copies Requested Reg

Formation Test No. 2 Interval Tested From 4625 ft. to 4634 ft. Total Depth 4634 ft.

Packer Depth 4620 ft. Size 6314 in. Packer Depth ft. Size in.

Packer Depth 4625 ft. Size 6314 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4626 ft. Recorder Number 6233 Cap. 4.000

Bottom Recorder Depth (Outside) 4629 ft. Recorder Number 13400 Cap. 3.950

Below Straddle Recorder Depth Recorder Number Cap.

Drilling Contractor Rains & Williamson Rig #3 Drill Collar Length 497 I. D. 2.2 in.

Mud Type Chemical Viscosity 43 Weight Pipe Length I. D. in.

Weight 9.17 Water Loss 12.8 cc. Drill Pipe Length 4098 I. D. 3.8 in.

Chlorides 9.000 P.P.M. Test Tool Length 29 ft. Tool Size 5/2.00 in.

Jars: Make Western Serial Number 414 Anchor Length 9 ft. Size 5/2.00 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 KH in.

Blow: IFP - Strong blow - bottom of bucket in 1 min

FFP - Strong blow - bottom of bucket in 1 min.

Recovered 70 ft. of muddy water 60% water 40% mud

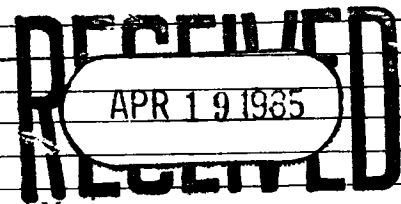
Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Chlorides 28.000 P.P.M. Sample Jars used 2 Remarks:



Time On Location 2:30 A.M. Time Pick Up Tool 3:30 P.M. Time Off Location A.M. P.M.

Time Set Packer(s) 5:35 A.M. Time Started Off Bottom 8:35 P.M. Maximum Temperature 140

Initial Hydrostatic Pressure (A) 2346 P.S.I.

Initial Flow Period Minutes 30 (B) 40 P.S.I. to (C) 40 P.S.I.

Initial Closed In Period Minutes 30 (D) 727 P.S.I.

Final Flow Period Minutes 60 (E) 50 P.S.I. to (F) 50 P.S.I.

Final Closed In Period Minutes 60 (G) 1055 P.S.I.

Final Hydrostatic Pressure (H) 2306 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 Stephen M. Keidler Signature of Customer or his authorized representative

Western Representative Mike Skulert 1940

Thank you!

FIELD INVOICE

Table with 2 columns: Item, Amount. Includes Open Hole Test (\$595), Misrun, Straddle Test, Jars (\$300), Selective Zone, Safety Joint (\$65), Standby, Evaluation, Extra Packer, Circ. Sub., Mileage, Fluid Sampler, Extra Charts, Insurance (\$50), Telecopier, TOTAL (\$1010).

WESTERN TESTING CO., INC.
Pressure Data

Date 4-16-85 Test Ticket No. 7653
 Recorder No. 6233 Capacity 4000 Location _____ Ft.
 Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	P.S.I.	Open Tool	Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>2337</u>	P.S.I.	_____ M	<u>30</u> Mins.	<u>30</u> Mins.
B. First Initial Flow Pressure	<u>41</u>	P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>33</u> Mins.
C. First Final Flow Pressure	<u>43</u>	P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D. Initial Closed-in Pressure	<u>733</u>	P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E. Second Initial Flow Pressure	<u>52</u>	P.S.I.	Final Closed-in Pressure		
F. Second Final Flow Pressure	<u>58</u>	P.S.I.			
G. Final Closed-in Pressure	<u>1048</u>	P.S.I.			
H. Final Hydrostatic Mud	<u>2317</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: 12 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Second Flow Pressure
 Breakdown: 13 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

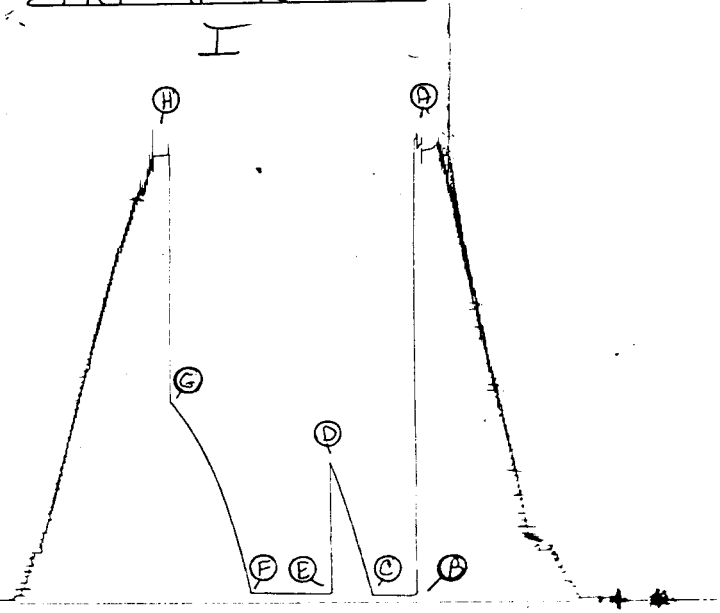
Final Shut-In
 Breakdown: 21 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>41</u>	0	<u>43</u>	0	<u>52</u>	0	
P 2 5	<u>41</u>	3	<u>110</u>	5	<u>52</u>	3	<u>142</u>
P 3 10	<u>41</u>	6	<u>185</u>	10	<u>52</u>	6	<u>226</u>
P 4 15	<u>42</u>	9	<u>260</u>	15	<u>52</u>	9	<u>305</u>
P 5 20	<u>42</u>	12	<u>329</u>	20	<u>52</u>	12	<u>374</u>
P 6 25	<u>43</u>	15	<u>400</u>	25	<u>52</u>	15	<u>441</u>
P 7 30	<u>43</u>	18	<u>467</u>	30	<u>53</u>	18	<u>508</u>
P 8 35		21	<u>532</u>	35	<u>54</u>	21	<u>566</u>
P 9 40		24	<u>588</u>	40	<u>55</u>	24	<u>620</u>
P 10 45		27	<u>651</u>	45	<u>56</u>	27	<u>667</u>
P 11 50		30	<u>701</u>	50	<u>57</u>	30	<u>717</u>
P 12 55		33	<u>733</u>	55	<u>58</u>	33	<u>761</u>
P 13 60		36		60	<u>58</u>	36	<u>807</u>
P 14 65		39		65		39	<u>843</u>
P 15 70		42		70		42	<u>884</u>
P 16 75		45		75		45	<u>914</u>
P 17 80		48		80		48	<u>946</u>
P 18 85		51		85		51	<u>976</u>
P 19 90		54		90		54	<u>1006</u>
P 20 95		57		95		57	<u>1034</u>
100		60		100		60	<u>1048</u>

6233

TKT # 7653

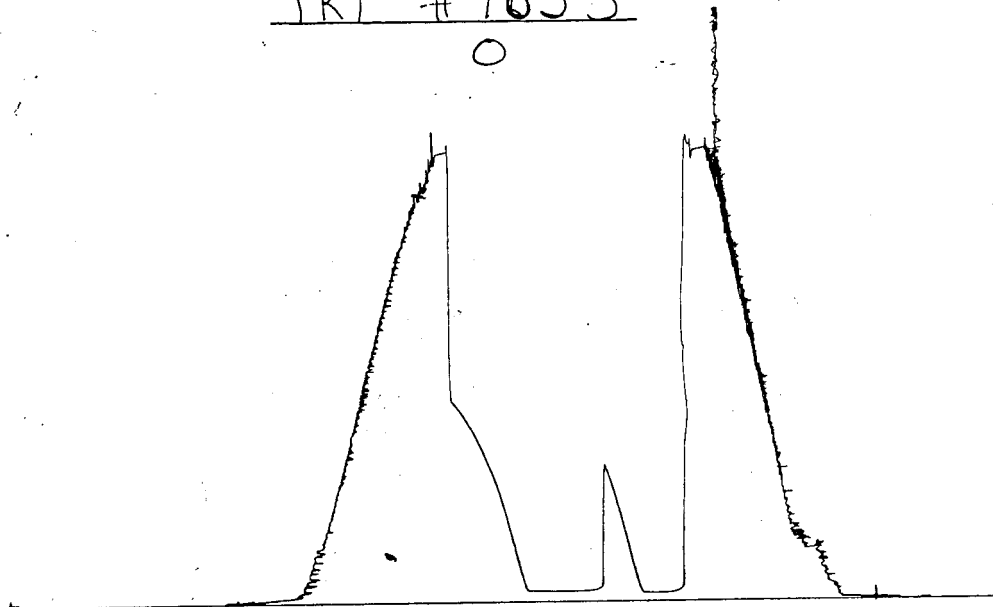
I



13402j

TKT #7653

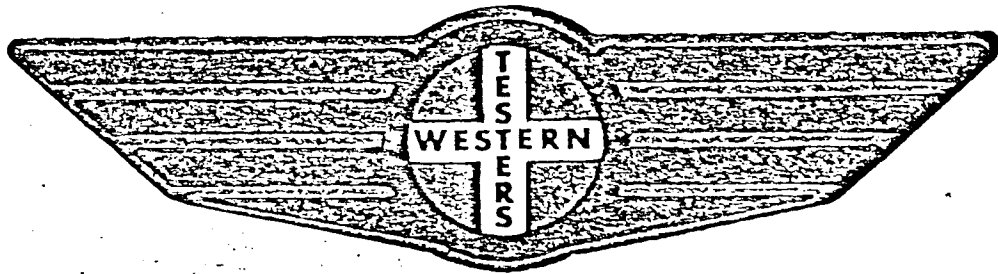
0



FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company RAINS & WILLIAMSON OIL CO INC Lease & Well No. #2 LOBO CATTLE CO. Sec. 13 Twp. 25S Rge. 29W Test No. 2 Date 4/16/85

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 4-16-85
CUSTOMER: RAINS & WILLIAMSON OIL CO INC.
WELL: 2 TEST: 2
ELEVATION (KB): 2204 FORMATION: MISSISSIPPI
SECTION: 13 TOWNSHIP: 25S
RANGE: 29W COUNTY: EDWARDS STATE: KANSAS
GAUGE SN #6233 RANGE: 4000 CLOCK: 12

INTERVAL TEST FROM: 4625 FT TO: 4634 FT TOTAL DEPTH: 4634 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4620 FT SIZE: 6 3/4 IN PACKER DEPTH: 4625 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RAINS/WILLIAMSON #3
MUD TYPE: CHEMICAL VISCOSITY: 43
WEIGHT: 9.1+ WATER LOSS (CC): 12.8
CHLORIDES (P.P.M.): 9000
JARS - MAKE: WTC SERIAL NUMBER: 414
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 497 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 4099 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 29 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 9 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 STRONG BLOW;
BOTTOM OF BUCKET IN 1 MINUTE;
FINAL FLOW PERIOD STRONG BLOW;
BOTTOM OF BUCKET IN 1 MINUTE;

RECOVERED: 70 FT OF: MUDDY WATER (60% WATER; 40% MUD).
RECOVERED: FT OF: CHLORIDES 28000 PPM.
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): 5:35 PM TIME STARTED OFF BOTTOM: 8:35 PM
WELL TEMPERATURE: 140 °F
INITIAL HYDROSTATIC PRESSURE: (A) 2337 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 41 PSI TO (C) 43 PSI
INITIAL CLOSED IN PERIOD MIN: 33 (D) 733 PSI
FINAL FLOW PERIOD MIN: 60 (E) 52 PSI TO (F) 58 PSI
FINAL CLOSED IN PERIOD MIN: 60 (G) 1048 PSI
FINAL HYDROSTATIC PRESSURE (H) 2317 PSI

