



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET NO 4157

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

Elevation 12706L Formation Layton Eff. Pay Ft.

WICHITA, KANSAS 67201

R090

District Augusta Date 3-23-84 Customer Order No.

COMPANY NAME Ramco Energy Corporation

ADDRESS Box 4856 Topela Ks 66604

LEASE AND WELL NORTHWEST CORNER Ranch #1 COUNTY Elk STATE Ks Sec. 12 Twp. 30S Rge. 8E

Mail Invoice To White 7 Ells Dale Box 448 Eldorado Ks 67042 No. Copies Requested 1

Mail Charts To Box 4856 Topela Address No. Copies Requested 5

Formation Test No. 1 Interval Tested From 1682 ft. to 1741 ft. Total Depth 2883 ft.

Packer Depth 1682 ft. Size 6 3/4 in. Packer Depth 1701 ft. Size 6 3/4 in.

Packer Depth 1677 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 1687 ft. Recorder Number 2605 Cap 4150

Bottom Recorder Depth (Outside) 1693 ft. Recorder Number 34 Cap

Below Straddle Recorder Depth 1710 ft. Recorder Number 3474 Cap 3000

Drilling Contractor WTE #3 Drill Collar Length 90 I. D. 2.25 in.

Mud Type Chem Viscosity 34 Weight Pipe Length I. D. in.

Weight 9.2 Water Loss 11.2 cc. Drill Pipe Length 1587 I. D. 3.8 in.

Chlorides 3300 P.P.M. Test Tool Length 25 ft. Tool Size 5 1/2 in.

Jars: Make WTC Serial Number Anchor Length 19 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 in.

Blow: Miss Run Top Packer Seat factory

Recovered 450 ft. of mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

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

Table with 4 columns: Time On Location, Time Pick Up Tool, Time Off Location, Maximum Temperature. Rows include Initial Hydrostatic Pressure, Initial Flow Period, Final Flow Period, Final Hydrostatic Pressure.

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 John E. Kirby Signature of Customer or his authorized representative

Western Representative Kenneth Kufendall

FIELD INVOICE

Table with 2 columns: Item, Price. Items include Open Hole Test, Meters, Straddle Test, Jars, Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Mileage, Fluid Sampler, Extra Charts, Insurance, Telecopier, TOTAL \$4,625.00.

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TKT # 4157

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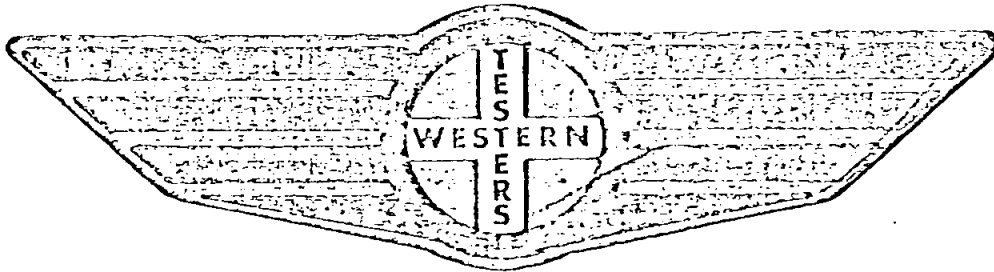
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FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company REMCO ENERGY CORPORATION Lease and Well No. #1 "A" WESTMORLAND Sec. 12 Twp. 30S Rge. 8E Test No. 1 Date 3/23/84

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 3/23/84
CUSTOMER: REMCO ENERGY CORPORATION
WELL: 1-(A) TEST: 1
ELEVATION (KB): 1275
SECTION: 12
RANGE: 8E COUNTY: ELK STATE: KANSAS
GAUGE SN #3354 RANGE: CLOCK: 12

TICKET #4157
LEASE: WESTMORELAND RANCH
GEOLOGIST: JOHN E. H.
FORMATION: LAYTON
TOWNSHIP: 30S

INTERVAL TEST FROM: 1682 FT TO: 1741 FT TOTAL DEPTH: 2883 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 1682 FT SIZE: 6 3/4 IN PACKER DEPTH: 1677 FT SIZE: 6 3/4 IN
PACKER DEPTH: 1701 FT SIZE: 6 3/4 IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: WHITE & ELLIS
MUD TYPE: CHEMICAL VISCOSITY: 34
WEIGHT: 9.2 WATER LOSS (CC): 11.2
CHLORIDES (P.P.M.): 3300
JARS - MAKE: W.T.C. SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? YES
DRILL COLLAR LENGTH: 90 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 1587 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 25 FT TOOL SIZE: 5 1/2 IN
ANCHOR LENGTH: 19 FT SIZE: 5 1/2 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 X.H. IN

BLOW:

RECOVERED: 450 FT OF: 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: ONLY ONE CHART; READ OUTSIDE CHART.
MISRUN; TOP PACKER SEAT FAILURE.

TIME SET PACKER(S): 11:00 TIME STARTED OFF BOTTOM:
WELL TEMPERATURE: 0 °F
INITIAL HYDROSTATIC PRESSURE: (A) 865 PSI
INITIAL FLOW PERIOD MIN: 0 (B) 0 PSI TO (C) 0 PSI
INITIAL CLOSED IN PERIOD MIN: 0 (D) 0 PSI
FINAL FLOW PERIOD MIN: 0 (E) 0 PSI TO (F) 0 PSI
FINAL CLOSED IN PERIOD MIN: 0 (G) 0 PSI
FINAL HYDROSTATIC PRESSURE (H) 865 PSI



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET N^o 4158

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

Elevation 12705L Formation Layton Eff. Pay _____ Ft.

RD90 District Augusta Date 3-23-84 Customer Order No. _____

COMPANY NAME Remco Energy Corporation

ADDRESS Box 4856 Topoka Ks 66604

LEASE AND WELL NO. Westmoreland Ranch #1A COUNTY Ellis STATE Ks Sec. 12 Twp. 30S Rge. 8E

Mail Invoice To White & Ellis Dalg Box 448 Eldorado Ks 67042 No. Copies Requested 1

Mail Charts To Remco Co. Name Address Box 4856 Topoka Ks #1 "A" Westmoreland Ranch No. Copies Requested 6

Formation Test No. 2 Interval Tested From 1529 ft. to 1741 ft. Total Depth 2883 ft.

Packer Depth 1529 ft. Size 6 3/4 in. Packer Depth 1741 ft. Size 6 3/4 in.

Packer Depth 1524 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 1540 ft. Recorder Number 2605 Cap. 3000

Bottom Recorder Depth (Outside) 1545 ft. Recorder Number _____ Cap. _____

Below Saddle Recorder Depth 1750 ft. Recorder Number 3474 Cap. 4150

Drilling Contractor WTE#3 Drill Collar Length 150 I. D. 2.25 in.

Mud Type Clam Viscosity 40 Weight Pipe Length _____ I. D. _____ in.

Weight 9.2 Water Loss 11.2 cc. Drill Pipe Length 1354 I. D. 3.8 in.

Chlorides 3300 P.P.M. Test Tool Length 25 ft. Tool Size 5 1/2 in.

Jars: Make WTC Serial Number _____ Anchor Length 212 ft. Size 5 1/2 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 H in.

Blow: fast blow decreasing to weak first flow, surge as tool opened second flow no flow

Recovered 90 ft. of MUD

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

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

Time On Location _____ A.M. Time Pick Up Tool _____ A.M. Time Off Location _____ P.M.

Time Set Packer(s) 4:05 A.M. Time Started Off Bottom 2:05 A.M. Maximum Temperature _____ P.M.

Initial Hydrostatic Pressure _____ (A) 787 P.S.I.

Initial Flow Period _____ Minutes 30 (B) 10.5 P.S.I. to (C) 264 P.S.I.

Initial Circulation Period _____ Minutes 60 (D) 275 P.S.I.

Final Flow Period _____ Minutes 30 (E) 275 P.S.I. to (F) 275 P.S.I.

Final Circulation Period _____ Minutes 60 (G) 275 P.S.I.

Final Hydrostatic Pressure _____ (H) 787 P.S.I.

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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 John E. Kealey
Signature of Customer or his authorized representative

Western Representative Kenneth Kerkendall

FIELD INVOICE

Open Hole Test	\$ 550.00
Misrun	\$
Saddle Test	\$ 300.00
Jars	\$ 300.00
Selective Zone	\$ 300.00
Safety Joint	\$ 65.00
Standby	\$
Evaluation	\$
Extra Packer	\$ 225.00
Circ. Sub.	\$
Mileage	\$
Fluid Sampler	\$
Extra Charts	\$
Insurance	\$
Telecopier	\$
TOTAL	\$ 1,740.00

1127

WESTERN TESTING CO., INC.

Pressure Data

Date 3-23

Test Ticket No. 4158

Recorder No. 2605 Capacity _____ Location _____ Ft. _____

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>790</u> P.S.I.		
B First Initial Flow Pressure	<u>118</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>280</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>283</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>283</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>288</u> P.S.I.		
G Final Closed-in Pressure	<u>288</u> P.S.I.		
H Final Hydrostatic Mud	<u>790</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: 21 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.

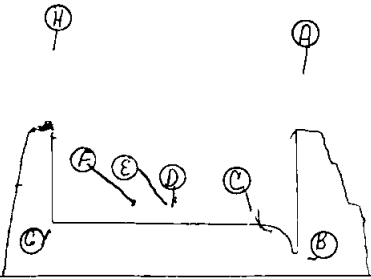
Final Shut-In
Breakdown: 21 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>118</u>	0	<u>280</u>	0	<u>283</u>	0	<u>288</u>
P 2 5	<u>176</u>	3	<u>281</u>	5	<u>284</u>	3	
P 3 10	<u>229</u>	6	<u>282</u>	10	<u>285</u>	6	
P 4 15	<u>257</u>	9	<u>283</u>	15	<u>286</u>	9	
P 5 20	<u>270</u>	12	<u>283</u>	20	<u>287</u>	12	
P 6 25	<u>275</u>	15	<u>283</u>	25	<u>288</u>	15	
P 7 30	<u>280</u>	18		30	<u>288</u>	18	
P 8 35		21		35		21	
P 9 40		24		40		24	
P 10 45		27		45		27	
P 11 50		30	<u>283</u>	50		30	
P 12 55		33		55		33	
P 13 60		36		60		36	
P 14		39		65		39	
P 15		42		70		42	
P 16		45		75		45	
P 17		48		80		48	
P 18		51		85		51	
P 19		54		90		54	
P 20		57				57	
		60	<u>283</u>			60	<u>288</u>

129 TKT# 4158

2605
DST#2

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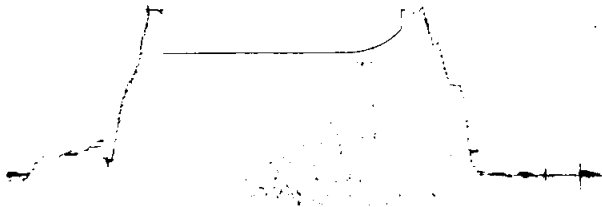


TKT# 4158

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PST# 2

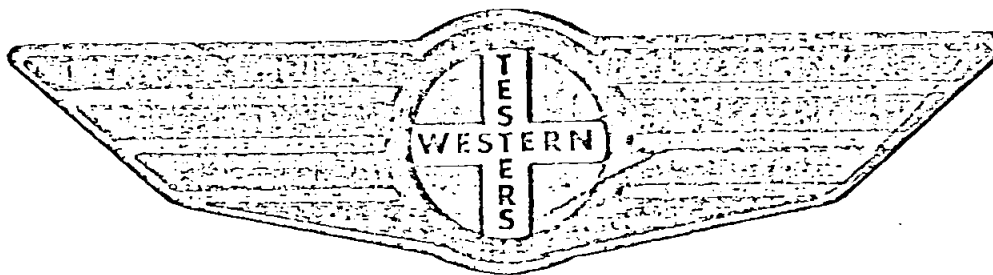
Below Straddle



FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company _____ REMCO ENERGY CORPORATION
Lease and Well No. #1 "A" WESTMORELAND Sec. 12 Twp. 30S Rge. 8E
Test No. 2 Date 3/23/84

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 3/23/84 TICKET #4158
 CUSTOMER: REMCO ENERGY CORPORATION LEASE: WESTMORELAND RANCH
 WELL: 1-(A) TEST: 2 GEOLOGIST: JOHN E. H.
 ELEVATION (KB): 1275 FORMATION: LAYTON
 SECTION: 12 TOWNSHIP: 30S
 RANGE: 8E COUNTY: ELK STATE: KANSAS
 GAUGE SN #2605 RANGE: 3000 CLOCK: 12

INTERVAL TEST FROM: 1529 FT TO: 1741 FT TOTAL DEPTH: 2883 FT
 DEPTH OF SELECTIVE ZONE: FT
 PACKER DEPTH: 1529 FT SIZE: 6 3/4 IN PACKER DEPTH: 1524 FT SIZE: 6 3/4 IN
 PACKER DEPTH: 1741 FT SIZE: 6 3/4 IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: WHITE & ELLIS
 MUD TYPE: CHEMICAL VISCOSITY: 40
 WEIGHT: 9.2 WATER LOSS (CC): 11.2
 CHLORIDES (P.P.M.): 3300
 JARS - MAKE: W.T.C. SERIAL NUMBER:
 DID WELL FLOW? NO REVERSED OUT? NO
 DRILL COLLAR LENGTH: 150 FT I.D.: 2.25 IN
 WEIGHT PIPE LENGTH: FT I.D.: IN
 DRILL PIPE LENGTH: 1354 FT I.D.: 3.8 IN
 TEST TOOL LENGTH: 25 FT TOOL SIZE: 5 1/2 IN
 ANCHOR LENGTH: 212 FT SIZE: 5 1/2 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 X.H. IN

BLOW: INITIAL FLOW PERIOD; FAIR DECREASING TO WEAK BLOW
 SURGE AS TOOL OPENED IN FINAL FLOW; NO BLOW.

RECOVERED: 90 FT OF: 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): 4:05 TIME STARTED OFF BOTTOM: 7:05
 WELL TEMPERATURE: 0 °F
 INITIAL HYDROSTATIC PRESSURE: (A) 790 PSI
 INITIAL FLOW PERIOD MIN: 30 (B) 118 PSI TO (C) 280 PSI
 INITIAL CLOSED IN PERIOD MIN: 60 (D) 283 PSI
 FINAL FLOW PERIOD MIN: 30 (E) 283 PSI TO (F) 288 PSI
 FINAL CLOSED IN PERIOD MIN: 60 (G) 288 PSI
 FINAL HYDROSTATIC PRESSURE (H) 790 PSI

