



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET N° 4526

P. O. BOX 1599 WICHITA, KANSAS 67201
PHONE (316) 838-0601

Elevation _____ Formation L1 Eff. Pay 1 Ft.

District Wakeeney Date 6-4-80 Customer Order No. 1

COMPANY NAME K & E Artz Petroleum, Inc.

ADDRESS 816 Union Center

LEASE AND WELL NO. Hansen Foundation COUNTY Rooles STATE KS. Sec. 12 Twp 6S Rge 20W

Mail Invoice To Hansen Foundation No. Copies Requested 5

Co. Name Address No. Copies Requested 5

Mail Charts To Address

Formation Test No. 1 Interval Tested from 3345 ft. to 3405 ft. Total Depth 3405 ft.

Packer Depth 3345 ft. Size 4 3/4 in. Packer Depth ft. Size in.

Packer Depth 3341 ft. Size 4 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) ft. Recorder Number Cap.

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

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Drill Collar Length I. D. in.

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

Weight Water Loss cc. Drill Pipe Length I. D. in.

Chlorides P.P.M. Test Tool Length ft. Tool Size in.

Jars: Make Serial Number Anchor Length ft. Size in.

Did Well Flow? Reversed Out Surface Choke Size in. Bottom Choke Size in.

Main Hole Size in. Tool Joint Size in.

Blow:

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of Mistrun caused by packer failure

Recovered ft. of

Remarks: Time on 1:00 am.

Time Set Packer(s) A.M. P.M. Time Started Off Bottom 3:15 A.M. P.M. Maximum Temperature

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

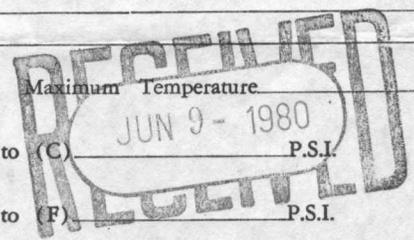
Initial Flow Period (B) Minutes P.S.I. to (C) P.S.I.

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

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

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

Final Hydrostatic Pressure (H) 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 George D. Mueller Signature of Customer or his authorized representative

Western Representative Dennis T. [Signature]

FIELD INVOICE

Open Hole Test \$

Misrun \$ 300.00

Straddle Test \$

Jars \$

Selective Zone \$

Safety Joint \$

Standby \$

Evaluation \$

Extra Packer \$

Circ. Sub. \$

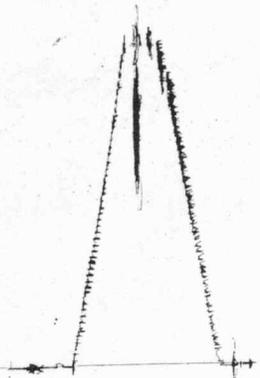
Mileage X. 754 \$ 5742.75

Fluid Sampler \$

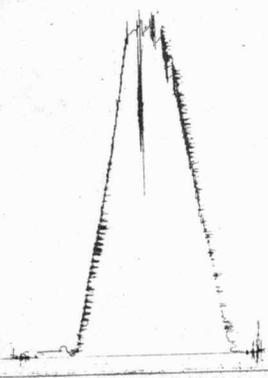
Extra Charts \$

TOTAL \$ 342.75

TK4 # 4526



TK4 # 4526





WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 4527

P. O. BOX 1599 PHONE (316) 838-0601
WICHITA, KANSAS 67201

Elevation Formation Lan. Eff. Pay Ft.

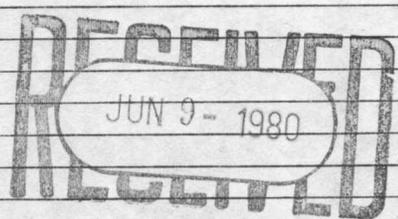
District Wakeeney Date 6-4-80 Customer Order No.
COMPANY NAME K & E Petroleum Service
ADDRESS 216 Union Center Wichita
LEASE AND WELL NO. Hansen Foundation COUNTY Rocks STATE KS, Sec. 12 Twp. 6S Rge. 20W
Mail Invoice To No. Copies Requested 5
Mail Charts To No. Copies Requested 5

Formation Test No. 2 Interval Tested from 3312 ft. to 3405 ft. Total Depth 3405 ft.
Packer Depth 3312 ft. Size 6 3/4 in. Packer Depth 3308 ft. Size 6 3/4 in.

Top Recorder Depth (Inside) 3313 ft. Recorder Number 3473 Cap. 4000 PSI
Bottom Recorder Depth (Outside) 3405 ft. Recorder Number 2608 Cap. 4150 PSI
Below Straddle Recorder Depth ft. Recorder Number Cap.
Drilling Contractor AB Procrumbie Drill Collar Length I. D.
Mud Type Drispac Viscosity 58 Weight Pipe Length 310 I. D. 2 1/2
Weight 9.8 Water Loss 14.2 cc. Drill Pipe Length 3095 I. D. 3.8
Chlorides 1300 P.P.M. Test Tool Length 30 ft. Tool Size 5 1/2 in.
Jars: Make None Serial Number Anchor Length 93 ft. Size 5 1/2 in.
Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 1/4 in.
Main Hole Size 7 7/8 in. Tool Joint Size 6 1/4 in.

Blow: Weak Blow Died 15 min on IFF Flushed Tool Blew 5 min.
No Blow on FFP.

Recovered ft. of
Remarks:



on 1:00 am. off 11:00 Thank you
Time Set Packer(s) 4:55 AM/PM Time Started Off Bottom 8:55 AM/PM Maximum Temperature 104
Initial Hydrostatic Pressure (A) 1641 P.S.I.
Initial Flow Period Minutes (B) 31 P.S.I. to (C) 41 P.S.I.
Initial Closed In Period Minutes (D) 695 P.S.I.
Final Flow Period Minutes (E) 41 P.S.I. to (F) 41 P.S.I.
Final Closed In Period Minutes (G) 674 P.S.I.
Final Hydrostatic Pressure (H) 1650 P.S.I.

COMPANY TERMS
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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: [Signature]
Signature of Customer or his authorized representative.

Western Representative: [Signature]

FIELD INVOICE table with items: Open Hole Test \$550.00, Misrun \$, Straddle Test \$, Jars \$, Selective Zone \$, Safety Joint \$, Standby \$, Evaluation \$, Extra Packer \$, Circ. Sub. \$, Mileage \$, Fluid Sampler \$, Extra Charts \$, TOTAL \$550.00

WESTERN TESTING CO., INC.

Pressure Data

Date 6-4-80 Test Ticket No. 4527
 Recorder No. 3473 Capacity 4000 Location 3313 Ft.
 Clock No. — Elevation — Well Temperature 104 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1685</u> P.S.I.	<u>6:55 A</u> M	
B First Initial Flow Pressure	<u>45</u> P.S.I.		Mins. <u>30</u> Mins.
C First Final Flow Pressure	<u>43</u> P.S.I.		Mins. <u>30</u> Mins.
D Initial Closed-in Pressure	<u>702</u> P.S.I.		Mins. <u>30</u> Mins.
E Second Initial Flow Pressure	<u>53</u> P.S.I.		Mins. <u>30</u> Mins.
F Second Final Flow Pressure	<u>45</u> P.S.I.		
G Final Closed-in Pressure	<u>642</u> P.S.I.		
H Final Hydrostatic Mud	<u>1659</u> P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 6 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Initial Shut-In
 Breakdown: 10 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

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

Final Shut-In
 Breakdown: 10 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>45</u>	0	<u>43</u>	0	<u>53</u>	0	<u>45</u>
P 2 5	<u>39</u>	3	<u>50</u>	5	<u>47</u>	3	<u>53</u>
P 3 10	<u>36</u>	6	<u>133</u>	10	<u>45</u>	6	<u>111</u>
P 4 15	<u>36</u>	9	<u>221</u>	15	<u>45</u>	9	<u>197</u>
P 5 20	<u>Flushed tool</u>	12	<u>326</u>	20	<u>45</u>	12	<u>281</u>
P 6 25	<u>47</u>	15	<u>414</u>	25	<u>45</u>	15	<u>352</u>
P 7 30	<u>43</u>	18	<u>488</u>	30	<u>45</u>	18	<u>426</u>
P 8 35		21	<u>561</u>	35		21	<u>490</u>
P 9 40		24	<u>616</u>	40		24	<u>547</u>
P10 45		27	<u>669</u>	45		27	<u>596</u>
P11 50		30	<u>702</u>	50		30	<u>642</u>
P12 55		33		55		33	
P13 60		36		60		36	
P14		39		65		39	
P15		42		70		42	
P16		45		75		45	
P17		48		80		48	
P18		51		85		51	
P19		54		90		54	
P20		57				57	
		60				60	

Company K & E Petroleum, Inc. Lease & Well No. Hansen Foundation
 Elevation - Formation Lansing Effective Pay - Ft. Ticket No. 4527
 Date 6-4-80 Sec. 12 Twp. 6S Range 20W County Rooks State Kansas
 Test Approved by George Mueller Western Representative Dennis Fritz

Formation Test No. 2 Interval Tested from 3312 ft. to 3405 ft. Total Depth 3405 ft.
 Packer Depth 3312 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 3308 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 3313 3313 ft. Recorder Number 3473 Cap. 4000
 Bottom Recorder Depth (Outside) 3405 ft. Recorder Number 2608 Cap. 4150
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Abercrombie Drilling Co. Drill Collar Length - I. D. - in.
 Mud Type Drispic Viscosity 58 Weight Pipe Length 310 I. D. 2.76 in.
 Weight 9.8 Water Loss 14.2 cc. Drill Pipe Length 3095 I. D. 3.8 in.
 Chlorides 1200 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 93 ft. Size 5 1/2 OD in.
 Did Well Flow? - Reversed Out - Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 6 1/4 in.

Blow: Weak blow died fifteen minutes on initial flow period. Flushed tool blew five minutes.

Recovered - ft. of
 Recovered - ft. of
 Recovered - ft. of
 Recovered - ft. of
 Recovered - ft. of

Remarks: _____

Time Set Packer(s) 6:55 ^{-A.M.} P.M. Time Started Off Bottom 8:55 ^{-A.M.} P.M. Maximum Temperature 104
 Initial Hydrostatic Pressure (A) 1685 P.S.I.
 Initial Flow Period Minutes 30 (B) 45 P.S.I. to (C) 54 P.S.I.
 Initial Closed In Period Minutes 30 (D) 702 P.S.I.
 Final Flow Period Minutes 30 (E) 53 P.S.I. to (F) 45 P.S.I.
 Final Closed In Period Minutes 30 (G) 642 P.S.I.
 Final Hydrostatic Pressure (H) 1659 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 6/4/80

Test Ticket No. 4527

Recorder No. 3473 Capacity 4000

Location 3313 Ft.

Clock No. - Elevation -

Well Temperature 104 °F

Point	Pressure		Time Given	Time Computed	
				Mins.	Mins.
A Initial Hydrostatic Mud	<u>1685</u>	P.S.I.	<u>6:55A</u>	<u>M</u>	
B First Initial Flow Pressure	<u>45</u>	P.S.I.		<u>30</u>	Mins.
C First Final Flow Pressure	<u>43</u>	P.S.I.		<u>30</u>	Mins.
D Initial Closed-in Pressure	<u>702</u>	P.S.I.		<u>30</u>	Mins.
E Second Initial Flow Pressure	<u>53</u>	P.S.I.		<u>30</u>	Mins.
F Second Final Flow Pressure	<u>45</u>	P.S.I.		<u>30</u>	Mins.
G Final Closed-in Pressure	<u>642</u>	P.S.I.			
H Final Hydrostatic Mud	<u>1659</u>	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

Initial Shut-In
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 0 Min.

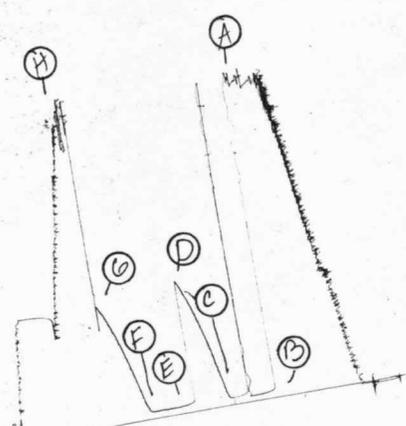
Second Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 10 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>45</u>	<u>0</u>	<u>43</u>	<u>0</u>	<u>53</u>	<u>0</u>	<u>45</u>
P 2 <u>5</u>	<u>39</u>	<u>3</u>	<u>50</u>	<u>5</u>	<u>47</u>	<u>3</u>	<u>53</u>
P 3 <u>10</u>	<u>36</u>	<u>6</u>	<u>133</u>	<u>10</u>	<u>45</u>	<u>6</u>	<u>111</u>
P 4 <u>15</u>	<u>36</u>	<u>9</u>	<u>221</u>	<u>15</u>	<u>45</u>	<u>9</u>	<u>197</u>
P 5 <u>20</u>	<u>flushed tool</u>	<u>12</u>	<u>326</u>	<u>20</u>	<u>45</u>	<u>12</u>	<u>281</u>
P 6 <u>25</u>	<u>47</u>	<u>15</u>	<u>414</u>	<u>25</u>	<u>45</u>	<u>15</u>	<u>352</u>
P 7 <u>30</u>	<u>43</u>	<u>18</u>	<u>488</u>	<u>30</u>	<u>45</u>	<u>18</u>	<u>426</u>
P 8		<u>21</u>	<u>561</u>			<u>21</u>	<u>490</u>
P 9		<u>24</u>	<u>616</u>			<u>24</u>	<u>541</u>
P10		<u>27</u>	<u>669</u>			<u>27</u>	<u>596</u>
P11		<u>30</u>	<u>702</u>			<u>30</u>	<u>642</u>
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

T 3473
4587

DR# 4527





WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET N^o 4528

P. O. BOX 1599 PHONE (316) 838-0601
WICHITA, KANSAS 67201

Elevation _____ Formation _____ Eff. Pay Ft.

District Wakeeney Date 6-4-80 Customer Order No. ✓
COMPANY NAME K & F Petroleum, Inc.
ADDRESS 816 Union Center - Wichita, Ks.
LEASE AND WELL NO. Hansen Foundation COUNTY Rocks STATE KS Sec. 12 Twp 6S Rge. 30W
Mail Invoice To Same No. Copies Requested 5
Co. Name _____ Address _____
Mail Charts To Same No. Copies Requested 5
Address _____

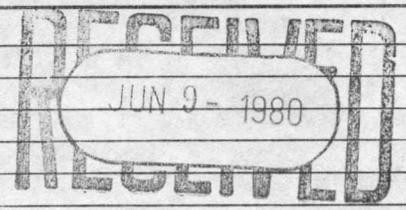
Formation Test No. 3 Interval Tested from 3422 ft. to 3460 ft. Total Depth 3460 ft.
Packer Depth 3422 ft. Size 4 3/4 in. Packer Depth ✓ ft. Size ✓ in.
Packer Depth 3418 ft. Size 6 3/4 in. Packer Depth ✓ ft. Size ✓ in.
Depth of Selective Zone Set ✓

Top Recorder Depth (Inside) 3423 ft. Recorder Number 3473 Cap. 4000 PSI
Bottom Recorder Depth (Outside) 3460 ft. Recorder Number 2608 Cap. 4150 PSI
Below Straddle Recorder Depth ✓ ft. Recorder Number ✓ Cap. ✓

Drilling Contractor Abercrombie Rig 7 Drill Collar Length ✓ I. D. ✓ in.
Mud Type Drispec Viscosity 42 Weight Pipe Length 310 I. D. 2.76 in.
Weight 9.8 Water Loss 12.8 cc. Drill Pipe Length 292.3 I. D. 3.8 in.
Chlorides 1500 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.
Jars: Make None Serial Number ✓ Anchor Length 38 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 6 1/4 in.

Blow: Weak Blow through-out IFP No Blow on FFP

Recovered 64 ft. of sl. oil cut mud
Recovered 1 ft. of free oil
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____



Remarks: _____
ON 2:00 P.M. off 1:00 am Thank you
Time Set Packer(s) 8135 A.M. Time Started Off Bottom 11:35 A.M. Maximum Temperature 104°
Initial Hydrostatic Pressure (A) 1762 P.S.I.
Initial Flow Period Minutes 30 (B) 61 P.S.I. to (C) 61 P.S.I.
Initial Closed In Period Minutes 45 (D) 1091 P.S.I.
Final Flow Period Minutes 40 (E) 61 P.S.I. to (F) 61 P.S.I.
Final Closed In Period Minutes 45 (G) 890 P.S.I.
Final Hydrostatic Pressure (H) 1700 P.S.I.

COMPANY TERMS

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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 Geo. H. Mueller
Signature of Customer or his authorized representative

Western Representative Dennis Fritz

FIELD INVOICE

Open Hole Test \$ 550.00
Misrun \$ _____
Straddle Test \$ _____
Jars \$ _____
Selective Zone \$ _____
Safety Joint \$ _____
Standby \$ _____
Evaluation \$ _____
Extra Packer \$ _____
Circ. Sub. \$ _____
Mileage \$ _____
Fluid Sampler \$ _____
Extra Charts \$ _____

TOTAL \$ 500.00

WESTERN TESTING CO., INC.

Pressure Data

Date 6-4-80 Test Ticket No. 4528
 Recorder No. 3473 Capacity 4000 Location 3423 Ft.
 Clock No. _____ Elevation _____ Well Temperature 104 °F

Point	Pressure		Time Given	Time Computed
Initial Hydrostatic Mud	<u>1782</u>	P.S.I.	<u>8:35 P</u>	M
First Initial Flow Pressure	<u>65</u>	P.S.I.	<u>30</u>	Mins. <u>30</u> Mins.
First Final Flow Pressure	<u>57</u>	P.S.I.	<u>45</u>	Mins. <u>60</u> Mins.
Initial Closed-in Pressure	<u>1095</u>	P.S.I.	<u>60</u>	Mins. <u>45</u> Mins.
Second Initial Flow Pressure	<u>69</u>	P.S.I.	<u>45</u>	Mins. <u>39</u> Mins.
Second Final Flow Pressure	<u>63</u>	P.S.I.		
Final Closed-in Pressure	<u>904</u>	P.S.I.		
Final Hydrostatic Mud	<u>1795</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>13</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point ins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
1	<u>65</u>	0	<u>57</u>	0	<u>69</u>	0	<u>63</u>
2	<u>63</u>	3	<u>172</u>	5	<u>65</u>	3	<u>192</u>
3	<u>60</u>	6	<u>405</u>	10	<u>63</u>	6	<u>360</u>
4	<u>59</u>	9	<u>558</u>	15		9	<u>502</u>
5	<u>59</u>	12	<u>680</u>	20		12	<u>597</u>
6	<u>59</u>	15	<u>758</u>	25		15	<u>660</u>
7	<u>57</u>	18	<u>817</u>	30		18	<u>713</u>
8		21	<u>865</u>	35		21	<u>760</u>
9		24	<u>912</u>	40		24	<u>788</u>
0		27	<u>943</u>	45	<u>63</u>	27	<u>817</u>
1		30	<u>965</u>	50		30	<u>841</u>
2		33	<u>985</u>	55		33	<u>882</u>
3		36	<u>1006</u>	60		36	<u>895</u>
4		39	<u>1024</u>	65		39	<u>904</u>
5		42	<u>1042</u>	70		42	
6		45	<u>1052</u>	75		45	
7		48	<u>1060</u>	80		48	
8		51	<u>1069</u>	85		51	
9		54	<u>1081</u>	90		54	
0		57	<u>1087</u>			57	
1		60	<u>1095</u>			60	

Company K & E Petroleum, Inc. Lease & Well No. Hansen Foundation #1
 Elevation - Formation - Effective Pay - Ft. Ticket No. 4528
 Date 6-4-80 Sec. 12 Twp. 6S Range 20W County Rooks State Kansas
 Test Approved by George Mueller Western Representative Dennis Fritz

Formation Test No. #3 Interval Tested from 3422 ft. to 3460 ft. Total Depth 3460 ft.
 Packer Depth 3422 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 3418 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3423 ft. Recorder Number 3473 Cap. 4000
 Bottom Recorder Depth (Outside) 3460 ft. Recorder Number 2608 Cap. 4150
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Abercrombie Drlg. Rig #7 Drill Collar Length - I. D. - in.
 Mud Type Drispac Viscosity 42 Weight Pipe Length 310 I. D. 2.76 in.
 Weight 9.8 Water Loss 12.8 cc. Drill Pipe Length 2923 I. D. 3.8 in.
 Chlorides 1500 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 38 ft. Size 5 1/2 OD in.
 Did Well Flow? - Reversed Out - Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 6 1/4 in.

Blow: Weak blow throughout initial flow period, no blow on final flow period.

Recovered 64 ft. of Slightly oil cut mud
 Recovered 1 ft. of free oil
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 8:35 A.M. Time Started Off Bottom 11:35 A.M. Maximum Temperature 104
P.M. -P.M.-
 Initial Hydrostatic Pressure (A) 1782 P.S.I.
 Initial Flow Period Minutes 30 (B) 65 P.S.I. to (C) 57 P.S.I.
 Initial Closed In Period Minutes 60 (D) 1095 P.S.I.
 Final Flow Period Minutes 45 (E) 69 P.S.I. to (F) 63 P.S.I.
 Final Closed In Period Minutes 39 (G) 904 P.S.I.
 Final Hydrostatic Pressure (H) 1715 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 6-4-80 Test Ticket No. 4528
 Recorder No. 3473 Capacity 4000 Location 3423 Ft.
 Clock No. - Elevation - Well Temperature 104 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1782</u> P.S.I.	Open Tool	<u>8:35P.</u> M	
B First Initial Flow Pressure	<u>65</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>57</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1095</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>69</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>39</u> Mins.
F Second Final Flow Pressure	<u>63</u> P.S.I.			
G Final Closed-in Pressure	<u>904</u> P.S.I.			
H Final Hydrostatic Mud	<u>1715</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 6 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Initial Shut-In
 Breakdown: 20 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

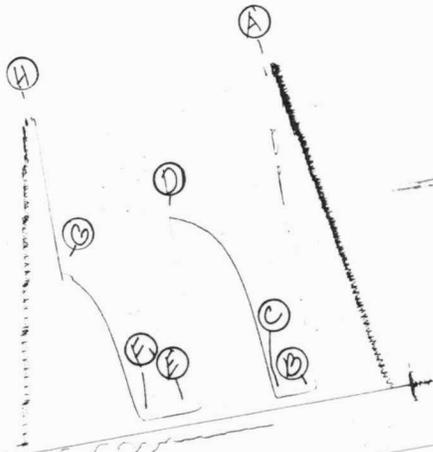
Second Flow Pressure
 Breakdown: 9 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 13 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>65</u>	<u>0</u>	<u>57</u>	<u>0</u>	<u>69</u>	<u>0</u>	<u>63</u>
P 2 <u>5</u>	<u>63</u>	<u>3</u>	<u>172</u>	<u>5</u>	<u>65</u>	<u>3</u>	<u>192</u>
P 3 <u>10</u>	<u>60</u>	<u>6</u>	<u>405</u>	<u>10</u>	<u>63</u>	<u>6</u>	<u>360</u>
P 4 <u>15</u>	<u>59</u>	<u>9</u>	<u>558</u>	<u>15</u>	<u>63</u>	<u>9</u>	<u>502</u>
P 5 <u>20</u>	<u>59</u>	<u>12</u>	<u>680</u>	<u>20</u>	<u>63</u>	<u>12</u>	<u>597</u>
P 6 <u>25</u>	<u>59</u>	<u>15</u>	<u>758</u>	<u>25</u>	<u>63</u>	<u>15</u>	<u>660</u>
P 7 <u>30</u>	<u>57</u>	<u>18</u>	<u>817</u>	<u>30</u>	<u>63</u>	<u>18</u>	<u>713</u>
P 8 _____		<u>21</u>	<u>865</u>	<u>35</u>	<u>63</u>	<u>21</u>	<u>760</u>
P 9 _____		<u>24</u>	<u>912</u>	<u>40</u>	<u>63</u>	<u>24</u>	<u>788</u>
P10 _____		<u>27</u>	<u>943</u>	<u>45</u>	<u>63</u>	<u>27</u>	<u>817</u>
P11 _____		<u>30</u>	<u>965</u>			<u>30</u>	<u>841</u>
P12 _____		<u>33</u>	<u>986</u>			<u>33</u>	<u>882</u>
P13 _____		<u>36</u>	<u>1006</u>			<u>36</u>	<u>895</u>
P14 _____		<u>39</u>	<u>1024</u>			<u>39</u>	<u>904</u>
P15 _____		<u>42</u>	<u>1042</u>				
P16 _____		<u>45</u>	<u>1052</u>				
P17 _____		<u>48</u>	<u>1060</u>				
P18 _____		<u>51</u>	<u>1069</u>				
P19 _____		<u>54</u>	<u>1081</u>				
P20 _____		<u>57</u>	<u>1087</u>				
WTC - 4		<u>60</u>	<u>1095</u>				

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WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET N° 4529

P. O. BOX 1599 WICHITA, KANSAS 67201
PHONE (316) 838-0601

Elevation Formation Eff. Pay Ft.

District WKny Date 6-5-80 Customer Order No.
COMPANY NAME K & F Petroleum, Inc.
ADDRESS 816 Union Center Wichita, Ks.
LEASE AND WELL NO. Hansen Foundation #1 COUNTY Rocks STATE KS Sec. 12 Twp 6S Rge 20W
Mail Invoice To Same Co. Name Address No. Copies Requested 5
Mail Charts To Same Address No. Copies Requested 5

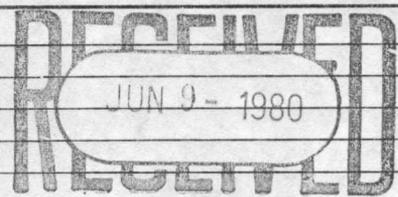
Formation Test No. 4 Interval Tested from 3496 ft. to 3540 ft. Total Depth 3540 ft.
Packer Depth 3496 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Packer Depth 3492 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Depth of Selective Zone Set

Top Recorder Depth (Inside) 3497 ft. Recorder Number 3473 Cap. 4000 PSI
Bottom Recorder Depth (Outside) 3540 ft. Recorder Number 2608 Cap. 4150 PSI
Below Straddle Recorder Depth ft. Recorder Number ft. Cap.

Drilling Contractor A. Bercrombie Drill Collar Length I. D. in.
Mud Type Drispac Viscosity 42 Weight Pipe Length 310 I. D. 2.76 in.
Weight 9.8 Water Loss 12.8 cc. Drill Pipe Length 3,003 I. D. 3.8 in.
Chlorides 1500 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.
Jars: Make None Serial Number Anchor Length 44 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 2 7/8 in. Tool Joint Size 6 1/4 in.

Blow: Weak Blow Died 8 min. on TFP Flashed tool Died 4 min.
No Blow on FFP

Recovered 10 ft. of sly. oil cut mud
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of
Remarks:



ON 11:30 off 4:30 Thank you
Time Set Packer(s) 12:45 A.M. Time Started Off Bottom 2:45 A.M. Maximum Temperature 106°
Initial Hydrostatic Pressure (A) 1884 P.S.I.
Initial Flow Period Minutes 30 (B) 51 P.S.I. to (C) 61 P.S.I.
Initial Closed In Period Minutes 30 (D) 215 P.S.I.
Final Flow Period Minutes 30 (E) 51 P.S.I. to (F) 51 P.S.I.
Final Closed In Period Minutes 30 (G) 82 P.S.I.
Final Hydrostatic Pressure (H) 1803 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 George N. Sprueller
Signature of Customer or his authorized representative
Western Representative Dennis Lutz

FIELD INVOICE

Table with 2 columns: Item and Price. Items include Open Hole Test (\$550.00), Misrun, Straddle Test, Jars, Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Mileage, Fluid Sampler, Extra Charts, and TOTAL (\$550.00).

WESTERN TESTING CO., INC.
Pressure Data

Date 6-5-80 Test Ticket No. 4529
 Recorder No. 3473 Capacity 400 Location 3497 Ft.
 Block No. _____ Elevation _____ Well Temperature 106 °F

Point	Pressure		Time Given	Time Computed
Initial Hydrostatic Mud	<u>1882</u> P.S.I.	Open Tool	<u>12.45 P</u> M	
First Initial Flow Pressure	<u>65</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
First Final Flow Pressure	<u>58</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>24</u> Mins.
Initial Closed-in Pressure	<u>206</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
Second Initial Flow Pressure	<u>61</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>24</u> Mins.
Second Final Flow Pressure	<u>51</u> P.S.I.			
Final Closed-in Pressure	<u>84</u> P.S.I.			
Final Hydrostatic Mud	<u>1815</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 6 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Initial Shut-In
 Breakdown: 8 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Second Flow Pressure
 Breakdown: 6 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 8 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Point ins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
1	0	0	58	0	61	0	51
2	5	3	62	5	57	3	53
3	10	6	66	10	53	6	56
4	15	9	74	15	51	9	59
5	20	12	88	20	51	12	62
6	25	15	106	25	51	15	67
7	30	18	131	30	51	18	73
8	35	21	169	35		21	79
9	40	24	206	40		24	84
10	45	27		45		27	
11	50	30		50		30	
12	55	33		55		33	
13	60	36		60		36	
14		39		65		39	
15		42		70		42	
16		45		75		45	
17		48		80		48	
18		51		85		51	
19		54		90		54	
20		57				57	
21		60				60	

Company K & E Petroleum, Inc. Lease & Well No. Hansen Foundation #1
 Elevation - Formation - Effective Pay - Ft. Ticket No. 4529
 Date 6-5-80 Sec. 12 Twp. 6S Range 20W County Rooks State Kansas
 Test Approved by George Mueller Western Representative Dennis Fritz

Formation Test No. #4 Interval Tested from 3496 ft. to 3540 ft. Total Depth 3540 ft.
 Packer Depth 3496 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 3492 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 3497 ft. Recorder Number 3473 Cap. 4000
 Bottom Recorder Depth (Outside) 3540 ft. Recorder Number 2608 Cap. 4150
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Abercrombie Drllg Co. Drill Collar Length - I. D. - in.
 Mud Type Drispac Viscosity 42 Weight Pipe Length 310 I. D. 2.76 in.
 Weight 9.8 Water Loss 12.8 cc. Drill Pipe Length 3003 I. D. 3.8 in.
 Chlorides 1500 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 44 ft. Size 5 1/2 OD in.
 Did Well Flow? - Reversed Out - Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 6 1/4 in.

Blow: Weak blow died 8 minites on initial flow period Flushed tool died in 4 minutes.

Recovered 10 ft. of Slightly oil cut mud.
 Recovered - ft. of -
 Recovered - ft. of -
 Recovered - ft. of -
 Recovered - ft. of -

Remarks: -

Time Set Packer(s) 12:45 ^{A.M.}/_{-P.M.-} Time Started Off Bottom 2:45 ^{A.M.}/_{-P.M.-} Maximum Temperature 106
 Initial Hydrostatic Pressure (A) 1882 P.S.I.
 Initial Flow Period Minutes 30 (B) 65 P.S.I. to (C) 58 P.S.I.
 Initial Closed In Period Minutes 24 (D) 206 P.S.I.
 Final Flow Period Minutes 30 (E) 61 P.S.I. to (F) 51 P.S.I.
 Final Closed In Period Minutes 24 (G) 84 P.S.I.
 Final Hydrostatic Pressure (H) 1815 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 6-5-80 Test Ticket No. 4529
 Recorder No. 3473 Capacity 4000 Location 3497 Ft.
 Clock No. - Elevation - Well Temperature 106 °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	1882	P.S.I.	12:45P.	M
B. First Initial Flow Pressure	65	P.S.I.	30	Mins. 30 Mins.
C. First Final Flow Pressure	58	P.S.I.	30	Mins. 24 Mins.
D. Initial Closed-in Pressure	206	P.S.I.	30	Mins. 30 Mins.
E. Second Initial Flow Pressure	61	P.S.I.	30	Mins. 24 Mins.
F. Second Final Flow Pressure	51	P.S.I.		
G. Final Closed-in Pressure	84	P.S.I.		
H. Final Hydrostatic Mud	1815	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 6 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Initial Shut-In
 Breakdown: 8 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Second Flow Pressure
 Breakdown: 6 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 8 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

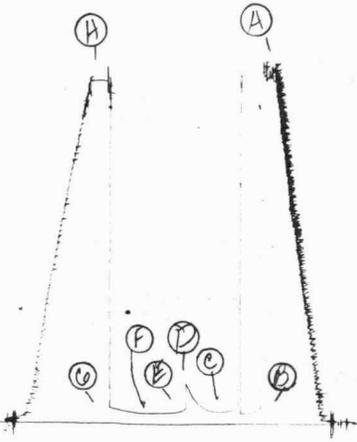
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>65</u>	<u>0</u>	<u>58</u>	<u>0</u>	<u>61</u>	<u>0</u>	<u>5;</u>
P 2 <u>5</u>	<u>57</u>	<u>3</u>	<u>62</u>	<u>5</u>	<u>57</u>	<u>3</u>	<u>53</u>
P 3 <u>10</u>	<u>52</u>	<u>6</u>	<u>66</u>	<u>10</u>	<u>53</u>	<u>6</u>	<u>56</u>
P 4 <u>15</u>	<u>48</u>	<u>9</u>	<u>74</u>	<u>15</u>	<u>51</u>	<u>9</u>	<u>59</u>
P 5 <u>20</u> Flushed Tool		<u>12</u>	<u>88</u>	<u>20</u>	<u>51</u>	<u>12</u>	<u>62</u>
P 6 <u>25</u>	<u>59</u>	<u>15</u>	<u>106</u>	<u>25</u>	<u>51</u>	<u>15</u>	<u>67</u>
P 7 <u>30</u>	<u>58</u>	<u>18</u>	<u>131</u>	<u>30</u>	<u>51</u>	<u>18</u>	<u>73</u>
P 8 _____		<u>21</u>	<u>169</u>			<u>21</u>	<u>79</u>
P 9 _____		<u>24</u>	<u>206</u>			<u>24</u>	<u>84</u>
P10 _____							
P11 _____							
P12 _____							
P13 _____							
P14 _____							
P15 _____							
P16 _____							
P17 _____							
P18 _____							
P19 _____							
P20 _____							

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WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No. 4530

P. O. BOX 1599 WICHITA, KANSAS 67201
PHONE (316) 838-0601

Elevation Formation Reservoir Eff. Pay Ft.

District WKny Date 6-6-80 Customer Order No.
COMPANY NAME K&E Petroleum, Inc.
ADDRESS 816 Union Center Wichita Mo.
LEASE AND WELL NO. Kansas Foundation #1 COUNTY Rocks STATE KS Sec. 12 Twp. 6S Rge. 20W
Mail Invoice To Same Co. Name Address No. Copies Requested 5
Mail Charts To Same Address No. Copies Requested 5

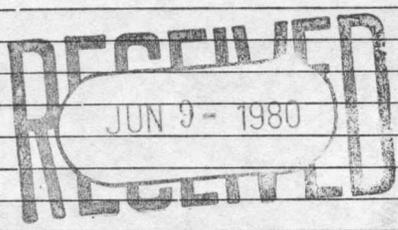
Formation Test No. 5 Interval Tested from 3600 ft. to 3609 ft. Total Depth 3609 ft.
Packer Depth 3600 ft. Size 1 3/4 in. Packer Depth 3609 ft. Size 1 3/4 in.
Packer Depth 3596 ft. Size 6 3/4 in. Packer Depth 3596 ft. Size 6 3/4 in.
Depth of Selective Zone Set

Top Recorder Depth (Inside) 3601 ft. Recorder Number 3473 Cap. 4000 PSI
Bottom Recorder Depth (Outside) 3609 ft. Recorder Number 2608 Cap. 4150 PSI
Below Straddle Recorder Depth 3609 ft. Recorder Number 3609 Cap. 4150 PSI

Drilling Contractor Abercrombie #7 Drill Collar Length 310 I. D. 2 1/2 in.
Mud Type Drispar Viscosity 47 Weight Pipe Length 310 I. D. 3.8 in.
Weight 10 Water Loss 9.8 cc. Drill Pipe Length 30 I. D. 3.8 in.
Chlorides 1800 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.
Jars: Make None Serial Number 9 Anchor Length 9 ft. Size 5 1/2 in.
Did Well Flow? No Reversed Out Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
Main Hole Size 7 7/8 in. Tool Joint Size 6 1/4 in.

Blow: Weak Blow throughout IFP Weak Blow throughout FFP

Recovered 40 ft. of gasy oil 5/8 muddy
Recovered 20 ft. of Heavy oil/cut mud
Recovered ft. of
Recovered ft. of
Recovered ft. of



Remarks: on 6:00 am off 1:00 Thank you

Time Set Packer(s) 7:15 A.M. P.M. Time Started Off Bottom 11:00 A.M. P.M. Maximum Temperature 186°
Initial Hydrostatic Pressure (A) 1884 P.S.I.
Initial Flow Period Minutes 30 (B) 31 P.S.I. to (C) 31 P.S.I.
Initial Closed In Period Minutes 60 (D) 1051 P.S.I.
Final Flow Period Minutes 45 (E) 41 P.S.I. to (F) 51 P.S.I.
Final Closed In Period Minutes 90 (G) 1020 P.S.I.
Final Hydrostatic Pressure (H) 1854 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 George N. Mueller Signature of Customer or his authorized representative
Western Representative Dennis Fitz

FIELD INVOICE

Open Hole Test \$ 550.00
Misrun \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$
Sandby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage \$
Fluid Sampler \$
Extra Charts \$
TOTAL \$ 550.00

WESTERN TESTING CO., INC.
Pressure Data

Date 6-6-80 Test Ticket No. 4530
 Recorder No. 3473 Capacity 4000 Location 3601 Ft.
 Clock No. _____ Elevation _____ Well Temperature 106 °F

Point	Pressure		Time Given	Time Computed
Initial Hydrostatic Mud	<u>1899</u>	P.S.I.	<u>7:15 A M</u>	
First Initial Flow Pressure	<u>22</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
First Final Flow Pressure	<u>22</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
Initial Closed-in Pressure	<u>1030</u>	P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
Second Initial Flow Pressure	<u>38</u>	P.S.I.	<u>90</u> Mins.	<u>90</u> Mins.
Second Final Flow Pressure	<u>38</u>	P.S.I.		
Final Closed-in Pressure	<u>1026</u>	P.S.I.		
Final Hydrostatic Mud	<u>1874</u>	P.S.I.		

PRESSURE BREAKDOWN

Point (ins.)	First Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Initial Shut-In Breakdown: <u>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Second Flow Pressure Breakdown: <u>9</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Final Shut-In Breakdown: <u>18</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
	Press.	Point Minutes Press.	Point Minutes Press.	Point Minutes Press.
1	<u>22</u>	0 <u>22</u>	0 <u>38</u>	0 <u>38</u>
2	<u>↕</u>	3 <u>141</u>	5 <u>↕</u>	3 <u>198</u>
3	<u>↕</u>	6 <u>542</u>	10 <u>↕</u>	6 <u>520</u>
4	<u>↕</u>	9 <u>835</u>	15 <u>↕</u>	9 <u>790</u>
5	<u>↕</u>	12 <u>922</u>	20 <u>↕</u>	12 <u>888</u>
6	<u>↕</u>	15 <u>949</u>	25 <u>↕</u>	15 <u>920</u>
7	<u>22</u>	18 <u>967</u>	30 <u>↕</u>	18 <u>936</u>
8		21 <u>977</u>	35 <u>↕</u>	21 <u>951</u>
9		24 <u>987</u>	40 <u>↕</u>	24 <u>959</u>
10		27 <u>995</u>	45 <u>38</u>	27 <u>966</u>
11		30 <u>1000</u>	50	30 <u>973</u>
12		33 <u>1006</u>	55	33 <u>979</u>
13		36 <u>1009</u>	60	36 <u>983</u>
14		39 <u>1012</u>	65	39 <u>987</u>
15		42 <u>1015</u>	70	42 <u>990</u>
16		45 <u>1018</u>	75	45 <u>993</u>
17		48 <u>1021</u>	80	48 <u>995</u>
18		51 <u>1024</u>	85	51 <u>1000</u>
19		54 <u>1026</u>	90	54 <u>1002</u>
20		57 <u>1028</u>		57 <u>1004</u>
		60 <u>1030</u>		60 <u>1008</u>

Cont

WESTERN TESTING CO., INC.
Pressure Data

Test Ticket No. 4530

Order No. _____ Capacity _____ Location _____
 No. _____ Elevation _____ Well Temperature _____
 Pressure _____ Time Given _____ Time Computed _____
 Initial Hydrostatic Mud _____ P.S.I. Open Tool _____ M _____
 First Initial Flow Pressure _____ P.S.I. First Flow Pressure _____ Mins. _____ Min _____
 First Final Flow Pressure _____ P.S.I. Initial Closed-in Pressure _____ Mins. _____ Min _____
 Initial Closed-in Pressure _____ P.S.I. Second Flow Pressure _____ Mins. _____ Min _____
 Second Initial Flow Pressure _____ P.S.I. Final Closed-in Pressure _____ Mins. _____ Min _____
 Second Final Flow Pressure _____ P.S.I. _____
 Final Closed-in Pressure _____ P.S.I. _____
 Final Hydrostatic Mud _____ P.S.I. _____

PRESSURE BREAKDOWN

Point ft.	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.	Point Minutes	Press.	Breakdown: _____ Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Point Minutes	Press.
1			63			63	1012
2			66			66	1014
3			69			69	1015
4			72			72	1017
5			75			75	1018
6			78			78	1020
7			81			81	1022
8			84			84	1024
9			87			87	1025
10			90			90	1026
11			93			93	
12			96			96	
13			99			99	
14			102			102	
15			105			105	
16			108			108	
17			111			111	
18			114			114	
19			117			117'	
20			120			120	

Company K & E Petroleum, Inc. Lease & Well No. Hansen Foundation #1
 Elevation - Formation Reagan Effective Pay - Ft. Ticket No. 4530
 Date 6-6-80 Sec. 12 Twp. 6S Range 20W County Rooks State Kansas
 Test Approved by George Mueller Western Representative Dennis Fritz

Formation Test No. #5 Interval Tested from 3600 ft. to 3609 ft. Total Depth 3609 ft.
 Packer Depth 3600 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 3596 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 3601 ft. Recorder Number 3473 Cap. 4000
 Bottom Recorder Depth (Outside) 3609 ft. Recorder Number 2608 Cap. 4150
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Abercrombie Drlg Co. Rig #7 Drill Collar Length - I. D. - in.
 Mud Type Drispac Viscosity 47 Weight Pipe Length 310 I. D. 2.76 in.
 Weight 10 Water Loss 9.8 cc. Drill Pipe Length - I. D. 3.8 in.
 Chlorides 1800 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 9 ft. Size 5 1/2 OD in.
 Did Well Flow? - Reversed Out - Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 6 1/4 in.

Blow: Weak blow throughout initial flow period, Weak blow throughout final flow period

Recovered 40 ft. of Gassy oil slightly muddy
 Recovered 20 ft. of Heavy oil cut mud
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s)	<u>7:15</u>	<u>A.M.</u>	Time Started Off Bottom	<u>11:00</u>	<u>P.M.</u>	Maximum Temperature	<u>106</u>
Initial Hydrostatic Pressure			(A)	<u>1899</u>		P.S.I.	
Initial Flow Period			Minutes	<u>30</u>	(B)	<u>22</u>	P.S.I. to (C) <u>22</u> P.S.I.
Initial Closed In Period			Minutes	<u>60</u>	(D)	<u>1030</u>	P.S.I.
Final Flow Period			Minutes	<u>45</u>	(E)	<u>38</u>	P.S.I. to (F) <u>38</u> P.S.I.
Final Closed In Period			Minutes	<u>90</u>	(G)	<u>1026</u>	P.S.I.
Final Hydrostatic Pressure			(H)	<u>1874</u>		P.S.I.	

WESTERN TESTING CO., INC.
Pressure Data

Date 6-6-80 Test Ticket No. 4530
 Recorder No. 3473 Capacity 4000 Location 3601 Ft.
 Clock No. ----- Elevation ----- Well Temperature 106 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1899</u> P.S.I.	Open Tool	<u>7:15</u> A M	
B First Initial Flow Pressure	<u>22</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>22</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1030</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>38</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>90</u> Mins.
F Second Final Flow Pressure	<u>38</u> P.S.I.			
G Final Closed-in Pressure	<u>1026</u> P.S.I.			
H Final Hydrostatic Mud	<u>1874</u> P.S.I.			

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure	Point Minutes	Initial Shut-In	Point Minutes	Second Flow Pressure	Point Minutes	Final Shut-In
	Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Breakdown: <u>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Breakdown: <u>9</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Breakdown: <u>18</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
	Press.		Press.		Press.		Press.
P 1	<u>22</u>	<u>0</u>	<u>22</u>	<u>0</u>	<u>38</u>	<u>0</u>	<u>38</u>
P 2	<u>22</u>	<u>3</u>	<u>141</u>	<u>5</u>	<u>38</u>	<u>3</u>	<u>198</u>
P 3	<u>22</u>	<u>6</u>	<u>542</u>	<u>10</u>	<u>38</u>	<u>6</u>	<u>520</u>
P 4	<u>22</u>	<u>9</u>	<u>835</u>	<u>15</u>	<u>38</u>	<u>9</u>	<u>790</u>
P 5	<u>22</u>	<u>12</u>	<u>922</u>	<u>20</u>	<u>38</u>	<u>12</u>	<u>888</u>
P 6	<u>22</u>	<u>15</u>	<u>949</u>	<u>25</u>	<u>38</u>	<u>15</u>	<u>920</u>
P 7	<u>22</u>	<u>18</u>	<u>967</u>	<u>30</u>	<u>38</u>	<u>18</u>	<u>936</u>
P 8		<u>21</u>	<u>977</u>	<u>35</u>	<u>38</u>	<u>21</u>	<u>951</u>
P 9		<u>24</u>	<u>987</u>	<u>40</u>	<u>38</u>	<u>24</u>	<u>959</u>
P10		<u>27</u>	<u>995</u>	<u>45</u>	<u>38</u>	<u>27</u>	<u>966</u>
P11		<u>30</u>	<u>1000</u>			<u>30</u>	<u>973</u>
P12		<u>33</u>	<u>1006</u>			<u>33</u>	<u>979</u>
P13		<u>36</u>	<u>1009</u>			<u>36</u>	<u>983</u>
P14		<u>39</u>	<u>1012</u>			<u>39</u>	<u>987</u>
P15		<u>42</u>	<u>1015</u>			<u>42</u>	<u>990</u>
P16		<u>45</u>	<u>1018</u>			<u>45</u>	<u>993</u>
P17		<u>48</u>	<u>1021</u>			<u>48</u>	<u>995</u>
P18		<u>51</u>	<u>1024</u>			<u>51</u>	<u>1000</u>
P19		<u>54</u>	<u>1026</u>			<u>54</u>	<u>1002</u>
P20		<u>57</u>	<u>1028</u>			<u>57</u>	<u>1004</u>
		<u>60</u>	<u>1030</u>			<u>60</u>	<u>1008</u>

WESTERN TESTING CO., INC.

Pressure Data

Date 6-6-80

Test Ticket No. 4530

Recorder No. 3473

Capacity 4000

Location 3601 Ft.

Clock No. ----- Elevation -----

Well Temperature 106 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1899</u> P.S.I.	Open Tool	<u>7:15</u> A M	
B First Initial Flow Pressure	<u>22</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>22</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1030</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>38</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>90</u> Mins.
F Second Final Flow Pressure	<u>38</u> P.S.I.			
G Final Closed-in Pressure	<u>1026</u> P.S.I.			
H Final Hydrostatic Mud	<u>1874</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

Initial Shut-In
Breakdown: 20 Inc.
of 3 mins. and a
final inc. of 0 Min.

Second Flow Pressure
Breakdown: 9 Inc.
of 5 mins. and a
final inc. of 0 Min.

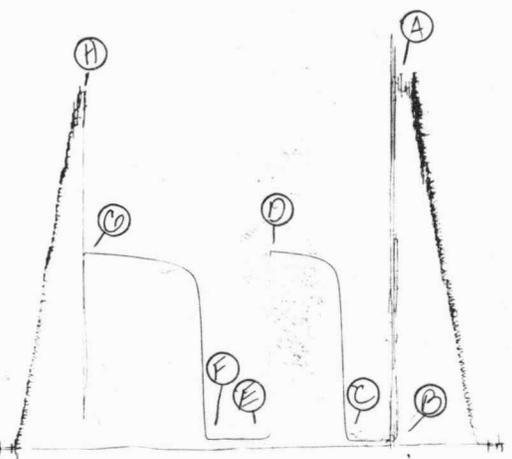
Final Shut-In
Breakdown: 18 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1						63	1012
P 2						66	1014
P 3						69	1015
P 4						72	1017
P 5						75	1018
P 6						78	1020
P 7						81	1022
P 8						84	1024
P 9						87	1025
P10						90	1026
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

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WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET NO 4531

P. O. BOX 1599 PHONE (316) 838-0601 WICHITA, KANSAS 67201

Elevation _____ Formation Reagan Eff. Pay _____ Ft.

District Wkny Date 6-6-80 Customer Order No. _____

COMPANY NAME K & F Petroleum ADDRESS 816 Union Central - Wichita Ks.

LEASE AND WELL NO Hensen Foundation #1 COUNTY Rocks STATE Ks. Sec. 12 Twp 6S Rge 20W

Mail Invoice To Same Co. Name Address No. Copies Requested 5

Mail Charts To Same Address No. Copies Requested 5

Formation Test No. 6 Interval Tested from 3600 ft. to 3611 ft. Total Depth 3611 ft. Packer Depth 3600 ft. Size 6 3/4 in. Packer Depth 3596 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in. Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3601 ft. Recorder Number 3473 Cap. 4000 PSI Bottom Recorder Depth (Outside) 3611 ft. Recorder Number 2608 Cap. 4150 PSI Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____

Drilling Contractor Abercrombie 7 Drill Collar Length _____ I. D. _____ in. Mud Type Dispac Viscosity 47 Weight Pipe Length 310 I. D. 2.76 in. Weight 10 Water Loss 9.8 cc. Drill Pipe Length _____ I. D. 2.8 in. Chlorides 1800 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in. Jars: Make None Serial Number _____ Anchor Length 11 ft. Size 5 1/2 in. Did Well Flow? No Reversed Out Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in. Main Hole Size 2 7/8 in. Tool Joint Size 6 1/4 in.

Blow: Strong Blow on IFF Due to mudpackers leaking mud Weak Blow Through out FFP

Recovered 382 ft. of Heavy oil cut mud sliggy Recovered _____ ft. of _____ Recovered _____ ft. of Grind out Top 50% oil 50% mud middle 10% oil 75% mud 15% volume loss Recovered _____ ft. of Bottom 50% oil 50% mud Remarks: 382' Total Fluid No Water

on 6:00 off Thank you Time Set Packer(s) 8:15 A.M. P.M. Time Started Off Bottom 11:00 A.M. P.M. Maximum Temperature 106° Initial Hydrostatic Pressure (A) 1884 P.S.I. Initial Flow Period Minutes 45 (B) 225 P.S.I. to (C) 215 P.S.I. Initial Closed In Period Minutes 45 (D) 909 P.S.I. Final Flow Period Minutes 30 (E) 236 P.S.I. to (F) 236 P.S.I. Final Closed In Period Minutes 45 (G) 888 P.S.I. Final Hydrostatic Pressure (H) 1864 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.

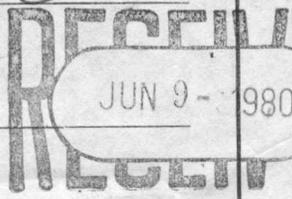
Test Approved By George N. Spuelle Signature of Customer or his authorized representative

Western Representative Dennis Ing

FIELD INVOICE

Table with 2 columns: Item, Amount. Includes Open Hole Test (\$550.00), Miscrun, Straddle Test, Jars, Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Mileage, Fluid Sampler, Extra Charts.

TOTAL \$ 550.00



WESTERN TESTING CO., INC.
Pressure Data

Date 6-6-80 Test Ticket No. 4531
 Recorder No. 3473 Capacity 4000 Location 3601 Ft.
 Clock No. _____ Elevation _____ Well Temperature 106 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1890</u>	P.S.I.	<u>8:15 P</u>	M
B First Initial Flow Pressure	<u>147</u>	P.S.I.	<u>45</u>	Mins. <u>45</u> Mins.
C First Final Flow Pressure	<u>225</u>	P.S.I.	<u>45</u>	Mins. <u>45</u> Mins.
D Initial Closed-in Pressure	<u>911</u>	P.S.I.	<u>30</u>	Mins. <u>30</u> Mins.
E Second Initial Flow Pressure	<u>239</u>	P.S.I.	<u>45</u>	Mins. <u>45</u> Mins.
F Second Final Flow Pressure	<u>231</u>	P.S.I.		
G Final Closed-in Pressure	<u>888</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1869</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>9</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Initial Shut-In Breakdown: <u>15</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Second Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Final Shut-In Breakdown: <u>15</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
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Point mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
1	0	<u>147</u>	0	<u>225</u>	0	<u>239</u>	0	<u>231</u>
2	5	<u>147</u>	3	<u>617</u>	5	<u>233</u>	3	<u>548</u>
3	10	<u>172</u>	6	<u>691</u>	10	<u>231</u>	6	<u>660</u>
4	15	<u>165</u>	9	<u>733</u>	15	<u>↑</u>	9	<u>711</u>
5	20	<u>165</u>	12	<u>762</u>	20	<u>↓</u>	12	<u>793</u>
6	25	<u>235</u>	15	<u>786</u>	25	<u>✓</u>	15	<u>770</u>
7	30	<u>232</u>	18	<u>808</u>	30	<u>231</u>	18	<u>788</u>
8	35	<u>225</u>	21	<u>823</u>	35		21	<u>804</u>
9	40	<u>225</u>	24	<u>837</u>	40		24	<u>820</u>
10	45	<u>225</u>	27	<u>853</u>	45		27	<u>831</u>
11	50		30	<u>864</u>	50		30	<u>844</u>
12	55		33	<u>876</u>	55		33	<u>854</u>
13	60		36	<u>886</u>	60		36	<u>864</u>
14			39	<u>895</u>	65		39	<u>873</u>
15			42	<u>905</u>	70		42	<u>880</u>
16			45	<u>911</u>	75		45	<u>888</u>
17			48		80		48	
18			51		85		51	
19			54		90		54	
20			57				57	
21			60				60	

Company K & E Petroleum, Inc. Lease & Well No. Hansen Foundation #1
 Elevation - Formation Reagan Effective Pay - Ft. Ticket No. 4531
 Date 6-6-80 Sec. 12 Twp. 6S Range 20W County Rooks State Kansas
 Test Approved by George Mueller Western Representative Dennis Fritz

Formation Test No# 6 Interval Tested from 3600 ft. to 3611 ft. Total Depth 3611 ft.
 Packer Depth 3600 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 3596 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3601 ft. Recorder Number 3473 Cap. 4000
 Bottom Recorder Depth (Outside) 3611 ft. Recorder Number 2608 Cap. 4150
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Abercrombie Drlg Co. Drill Collar Length - I. D. - in.
 Mud Type Drispac Viscosity 47 Weight Pipe Length 310 I. D. 2.76 in.
 Weight 10 Water Loss 9.8 cc. Drill Pipe Length - I. D. 3.8 in.
 Chlorides 1800 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 11 ft. Size 5 1/2 OD in.
 Did Well Flow? - Reversed Out - Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 6 1/4 in.

Blow: Strong blow on initial flow period due to packer leaking mud. Weak blow throughout final flow period.

Recovered 382 ft. of Heavy oil cut mud slightly gassy
 Recovered - ft. of -
 Recovered - ft. of Grind out top 50% oil, 50% mud
 Recovered - ft. of Middle " middle 10% oil, 75 % mud, 15% volume loss
 Recovered - ft. of " " Bottom 50% oil, 50% mud

Remarks: 382" total fluid, no water

Time Set Packer(s) 8:15 ^{A.M.}/_{P.M.} Time Started Off Bottom 11:00 ^{A.M.}/_{P.M.} Maximum Temperature 106
 Initial Hydrostatic Pressure (A) 1890 P.S.I.
 Initial Flow Period Minutes 45 (B) 147 P.S.I. to (C) 225 P.S.I.
 Initial Closed In Period Minutes 45 (D) 911 P.S.I.
 Final Flow Period Minutes 30 (E) 239 P.S.I. to (F) 231 P.S.I.
 Final Closed In Period Minutes 45 (G) 888 P.S.I.
 Final Hydrostatic Pressure (H) 1869 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 6-6-80 Test Ticket No. 4531
 Recorder No. 3473 Capacity 4000 Location 3601 Ft.
 Clock No. --- Elevation ---- Well Temperature 106 °F

Point	Pressure			Time	
		P.S.I.		Given	Computed
A Initial Hydrostatic Mud	<u>1890</u>	P.S.I.	Open Tool	<u>8:15</u>	P M
B First Initial Flow Pressure	<u>147</u>	P.S.I.	First Flow Pressure	<u>45</u>	Mins. <u>45</u> Mins.
C First Final Flow Pressure	<u>225</u>	P.S.I.	Initial Closed-in Pressure	<u>45</u>	Mins. <u>45</u> Mins.
D Initial Closed-in Pressure	<u>911</u>	P.S.I.	Second Flow Pressure	<u>30</u>	Mins. <u>30</u> Mins.
E Second Initial Flow Pressure	<u>239</u>	P.S.I.	Final Closed-in Pressure	<u>45</u>	Mins. <u>45</u> Mins.
F Second Final Flow Pressure	<u>231</u>	P.S.I.			
G Final Closed-in Pressure	<u>888</u>	P.S.I.			
H Final Hydrostatic Mud	<u>1869</u>	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 9 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Initial Shut-In
 Breakdown: 15 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Second Flow Pressure
 Breakdown: 6 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 15 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>147</u>	<u>0</u>	<u>225</u>	<u>0</u>	<u>239</u>	<u>0</u>	<u>231</u>
P 2 <u>5</u>	<u>147</u>	<u>3</u>	<u>617</u>	<u>5</u>	<u>233</u>	<u>3</u>	<u>548</u>
P 3 <u>10</u>	<u>172</u>	<u>6</u>	<u>691</u>	<u>10</u>	<u>231</u>	<u>6</u>	<u>660</u>
P 4 <u>15</u>	<u>165</u>	<u>9</u>	<u>733</u>	<u>15</u>	<u>231</u>	<u>9</u>	<u>711</u>
P 5 <u>20</u>	<u>165</u>	<u>12</u>	<u>762</u>	<u>20</u>	<u>231</u>	<u>12</u>	<u>743</u>
P 6 <u>25</u>	<u>235</u>	<u>15</u>	<u>786</u>	<u>25</u>	<u>231</u>	<u>15</u>	<u>770</u>
P 7 <u>30</u>	<u>232</u>	<u>18</u>	<u>808</u>	<u>30</u>	<u>231</u>	<u>18</u>	<u>788</u>
P 8 <u>35</u>	<u>225</u>	<u>21</u>	<u>823</u>			<u>21</u>	<u>804</u>
P 9 <u>40</u>	<u>225</u>	<u>24</u>	<u>839</u>			<u>24</u>	<u>820</u>
P10 <u>45</u>	<u>225</u>	<u>27</u>	<u>853</u>			<u>27</u>	<u>831</u>
P11		<u>30</u>	<u>864</u>			<u>30</u>	<u>844</u>
P12		<u>33</u>	<u>876</u>			<u>33</u>	<u>854</u>
P13		<u>36</u>	<u>886</u>			<u>36</u>	<u>864</u>
P14		<u>39</u>	<u>895</u>			<u>39</u>	<u>873</u>
P15		<u>42</u>	<u>905</u>			<u>42</u>	<u>880</u>
P16		<u>45</u>	<u>911</u>			<u>45</u>	<u>888</u>
P17							
P18							
P19							
P20							

DST #6

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