



Home Office: Great Bend, Kansas
P. O. Box 793 (316) 793-7903

Company **Tilco ETAL** Lease & Well No. **Shaft #2**
Elevation **None** Formation **Tarkio** Effective Pay _____ Ft. Ticket No. **10964**
Date **2-17-69** Sec. **18** Twp. **31** Range **14** County **Barber** State **Kansas**
Test Approved by **Claud L. Sheats, Jr.** Western Representative **Leon Elmore**

Formation Test No. **1** O.K. Misrun _____ Interval Tested From **2911'** to **2985'** Total Depth **2985'**
Size Main Hole **7 7/8** Rat Hole _____ Conv. B.T. _____ Damaged Yes No Conv. B.T. _____ Damaged Yes No
Packer Depth **2906** Ft. Size **6 3/4"** Packer Depth **2985** Ft. Size **6 3/4"**
Straddle Yes _____ No Conv. _____ B.T. _____ Damaged Yes _____ No

Tool Size **5 1/2" O.D.** Tool Jt. Size **4 1/2" F.H.** Anchor Length **74** Ft. Size **57' -DC 17'-5 1/2"**

RECORDERS Depth **2916** Ft. Clock No. **6866** Depth **2919** Ft. Clock No. **8377**
Top Make **Kuster** Cap. **4500** No. **3085** Inside _____ Outside _____ Bottom Make **Kuster** Cap. **4400** No. **2603** Inside _____ Outside _____
Below Straddle: Depth _____ Clock No. _____ Inside _____ Outside _____
Top Make _____ Cap. _____ No. _____ Inside _____ Outside _____
Bottom Make _____ Cap. _____ No. _____ Inside _____ Outside _____

Time Set Packer **2:55** P. M
Tool Open I.F.P. From **2:56** M. to **3:01P.** M. Hr. **5** Min. From (B) **9** P.S.I. To (C) **9** P.S.I.
Tool Closed I.C.I.P. From **3:01** M. to **3:31P.** M. Hr. **30** Min. (D) **31** P.S.I.
Tool Open F.F.P. From **3:31** M. to **4:31P.** M. Hr. **1** Min. From (E) **31** P.S.I. To (F) **31** P.S.I.
Tool Closed F.C.I.P. From **4:31** M. to **5:01P.** M. Hr. **30** Min. (G) **69** P.S.I.
Initial Hydrostatic Pressure (A) **1541** P.S.I. Final Hydrostatic Pressure (H) **1523** P.S.I.

SURFACE Size Choke **3/4** In. Max. Press. P.S.I. _____ Time _____ Description of Flow _____
INFORMATION _____ M. _____
_____ M. _____
_____ M. _____

BLOW **Weak** Bottom Choke Size **3/4** In.
Did Well Flow Yes No _____ Recovery Total Ft. **30 feet muddy water**

Reversed Out Yes No _____ Mud Type **Starch** Viscosity **38** Weight **9.9** Water Loss **25** cc. Maximum Temp. **91** °F
Type Circ. Sub. **Plug** Did Tool Plug? **No** Jars: Size **4 1/2" OD** Make **WTC** Ser. No. **408**
EXTRA EQUIPMENT: Dual Packers **Yes** Safety Joint **No** Did Packer Hold? **Yes** Where? _____
Length Drill Pipe **1779** ft. I.D. Drill Pipe **3.8** in. Length Weight Pipe **989** ft. I.D. Weight Pipe **2.7** in. Length Drill Collars **173** ft.
I. D. Drill Collars **2 1/4** in. Length D.S.T. Tool **44** ft.

Remarks _____



WESTERN TESTING CO., INC.

Pressure Data

Date 2-17-69 Recorder No. 3085 Capacity 4500 Test Ticket No. 10964
 Clock No. 6866 Elevation None Location 2916 Ft. 91
 Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1541	P.S.I.	2:55 P.	
B First Initial Flow Pressure	9	P.S.I.	5	5
C First Final Flow Pressure	9	P.S.I.	30	30
D Initial Closed-in Pressure	31	P.S.I.	60	60
E Second Initial Flow Pressure	31	P.S.I.	30	30
F Second Final Flow Pressure	31	P.S.I.		
G Final Closed-in Pressure	69	P.S.I.		
H Final Hydrostatic Mud	1523	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 1 Inc.
 of 5 mins. and a
 final inc. of _____ Min.

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

Second Flow Pressure
 Breakdown: 12 Inc.
 of 5 mins. and a
 final inc. of _____ Min.

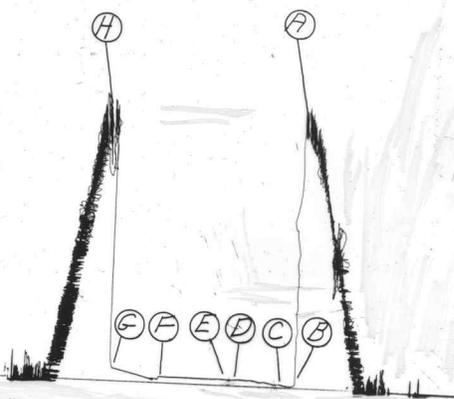
Final Shut-In
 Breakdown: 10 Inc.
 of 3 mins. and a
 final inc. of _____ Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	0	0	9	0	9	0	31
P 2	5	3	9	5	31	3	21
P 3		6	11	10	31	6	23
P 4		9	11	15	31	9	26
P 5		12	14	20	31	12	31
P 6		15	19	25	31	15	38
P 7		18	21	30	31	18	43
P 8		21	21	35	31	21	47
P 9		24	26	40	31	24	54
P10		27	28	45	31	27	62
P11		30	31	50	31	30	69
P12				55	31		
P13				60	31		
P14							
P15							
P16							
P17							
P18							
P19							
P20							

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TILCO ETAL
SHAFT #1

T. K. T. 10964
TEST # 1





Home Office: Great Bend, Kansas
P. O. Box 793 (316) 793-7903

Company Tilco EVAL Lease & Well No. Shaft #2
Elevation _____ Formation Douglas Effective Pay _____ Ft. Ticket No. 10965
Date 2-19-69 Sec. 18 Twp. 31 Range 14 County Barber State Kansas
Test Approved by Claud Sheats, Jr. Western Representative Leon Elmore

Formation Test No. 2 O.K. Misrun Interval Tested From 3656' to 3710' Total Depth 3710'
Size Main Hole 7 7/8 Rat Hole _____ Conv. B.T. _____ Damaged Yes _____ No B.T. _____ Damaged Yes _____ No
Packer Depth 3651 Ft. Size 6 3/4" Packer Depth 3656 Ft. Size 6 3/4"
Straddle Yes _____ No Conv. _____ B.T. _____ Damaged Yes _____ No

Tool Size 5 1/2" O.D. Tool Jt. Size 4 1/2" F.H. Anchor Length 54 Ft. Size 29'-DC 25'-5 1/2"
RECORDERS Depth 3669 Ft. Clock No. 6866 Depth 3672 Ft. Clock No. 8377
Top Make Kuster Cap. 4500 No. 3085 Inside _____ Outside _____ Bottom Make Kuster Cap. 4400 No. 2603 Inside _____ Outside _____
Below Straddle: Depth _____ Clock No. _____ Inside _____ Outside _____
Top Make _____ Cap. _____ No. _____ Inside _____ Outside _____

Time Set Packer 4:39 A. M.
Tool Open I.F.P. From 4:40 M. to 4:45A. M. Hr. 45 Min. From (B) 16 P.S.I. To (C) 23 P.S.I.
Tool Closed I.C.I.P. From 4:45 M. to 5:15 A. M. Hr. 30 Min. (D) 1279 P.S.I.
Tool Open F.F.P. From 5:15 M. to 6:15 A. M. Hr. 1 Min. From (E) 35 P.S.I. To (F) 95 P.S.I.
Tool Closed F.C.I.P. From 6:15 M. to 6:45A. M. Hr. 30 Min. (G) 1099 P.S.I.
Initial Hydrostatic Pressure (A) 1933 P.S.I. Final Hydrostatic Pressure (H) 1919 P.S.I.

SURFACE Size Choke 3/4 In. Max. Press. P.S.I. _____ Time _____ Description of Flow _____
INFORMATION _____ M. _____
_____ M. _____
_____ M. _____

BLOW Weak Bottom Choke Size 3/4 In.
Did Well Flow Yes No _____ Recovery Total Ft. 118 feet muddy water - 67 feet mud

Reversed Out Yes No _____ Mud Type Starch Viscosity 40 Weight 9.7 Water Loss 20 cc. Maximum Temp. 109 °F
Type Circ. Sub. Plug Did Tool Plug? No Jars: Size 4 1/2" O.D. Make WTC Ser. No. 408
EXTRA EQUIPMENT: Dual Packers Yes Safety Joint No Did Packer Hold? Yes Where? _____
Length Drill Pipe 2553 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 989 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars 114 ft.
I. D. Drill Collars 2 1/4 in. Length D.S.T. Tool 54 ft.

Remarks Weak blow - Flush tool in 30 minutes - Weak blow
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WESTERN TESTING CO., INC.
Pressure Data

Date 2-19-69 Test Ticket No. 10965
 Recorder No. 3085 Capacity 4500 Location 3669 Ft.
 Clock No. 6866 Elevation _____ Well Temperature 109 °F

Point	Pressure			Time Given	Time Computed
				4:39 A. M.	
A Initial Hydrostatic Mud	1933	P.S.I.	Open Tool		
B First Initial Flow Pressure	16	P.S.I.	First Flow Pressure	5 Mins.	5 Mins.
C First Final Flow Pressure	23	P.S.I.	Initial Closed-in Pressure	30 Mins.	29 Mins.
D Initial Closed-in Pressure	1279	P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	35	P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
F Second Final Flow Pressure	95	P.S.I.			
G Final Closed-in Pressure	1079	P.S.I.			
H Final Hydrostatic Mud	1919	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 1 Inc.
 of 5 mins. and a
 final inc. of _____ Min.

Initial Shut-In
 Breakdown: 9 Inc.
 of 3 mins. and a
 final inc. of 2 Min.

Second Flow Pressure
 Breakdown: 12 Inc.
 of 5 mins. and a
 final inc. of _____ Min.

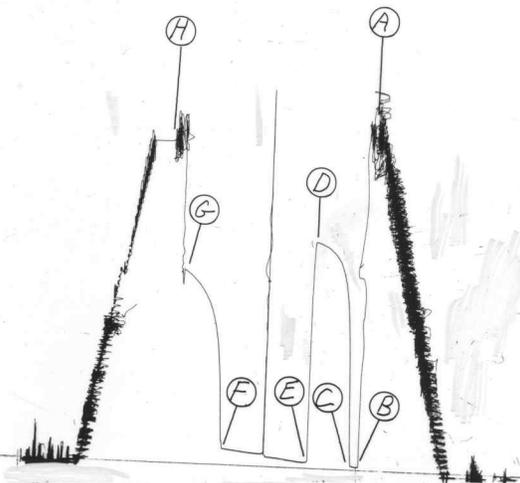
Final Shut-In
 Breakdown: 10 Inc.
 of 3 mins. and a
 final inc. of _____ Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	16	<u>0</u>	23	<u>0</u>	35	<u>0</u>	95
P 2 <u>5</u>	23	<u>3</u>	674	<u>5</u>	38	<u>3</u>	534
P 3 _____		<u>6</u>	988	<u>10</u>	40	<u>6</u>	755
P 4 _____		<u>9</u>	1115	<u>15</u>	45	<u>9</u>	864
P 5 _____		<u>12</u>	1175	<u>20</u>	50	<u>12</u>	930
P 6 _____		<u>15</u>	1210	<u>25</u>	54	<u>15</u>	976
P 7 _____		<u>18</u>	1233	<u>30</u>	59	<u>18</u>	1013
P 8 _____		<u>21</u>	1251	<u>35</u>	71	<u>21</u>	1041
P 9 _____		<u>24</u>	1263	<u>40</u>	76	<u>24</u>	1064
P10 _____		<u>27</u>	1272	<u>45</u>	81	<u>27</u>	1083
P11 _____		<u>29</u>	1279	<u>50</u>	86	<u>30</u>	1099
P12 _____				<u>55</u>	90		
P13 _____				<u>60</u>	95		
P14 _____							
P15 _____							
P16 _____							
P17 _____							
P18 _____							
P19 _____							
P20 _____							

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TILCO ETAL
SHAFT #2

T.K.T. 10965
TEST #2





Home Office: Great Bend, Kansas
P. O. Box 793 (316) 793-7903

Company Tilco ETAL Lease & Well No. Shaft # 2
Elevation _____ Formation Douglas Effective Pay 22 Ft. Ticket No. 10966
Date 2-19-69 Sec. 18 Twp. 31 Range 14 County Barber State Kansas
Test Approved by Claud L. Sheats, Jr. Western Representative Leon Elmore

Formation Test No. 3 O.K. Misrun Interval Tested From 3782' to 3805 Total Depth 3805'
Size Main Hole 7 7/8 Rat Hole _____ Conv. B.T. _____ Damaged Yes No Conv. B.T. _____ Damaged Yes No
Packer Depth 3777 Ft. Size 6 3/4 Packer Depth 3782 Ft. Size 6 3/4
Straddle Yes _____ No Conv. _____ B.T. _____ Damaged Yes _____ No

Packer Depth _____ Ft. Size _____
Tool Size 5 1/2"OD Tool Jt. Size 4 1/2"PH Anchor Length 23 Ft. Size 5 1/2"OD

RECORDERS Depth 3796 Ft. Clock No. 6866 Depth 3799 Ft. Clock No. 8377
Top Make Kuster Cap. 4500 No. 3085 ~~Inside~~ Outside Bottom Make Kuster Cap. 4400 No. 2603 ~~Inside~~ Outside
Below Straddle: Depth _____ Clock No. _____ Inside Depth _____ Ft. Clock No. _____ Outside
Top Make _____ Cap. _____ No. _____ Inside Bottom Make _____ Cap. _____ No. _____ Outside

Time Set Packer 6:56 P M
Tool Open I.F.P. From 6:57 M. to 7:00P M. Hr. 3 Min. From (B) 1237 P.S.I. To (C) 1237 P.S.I.
Tool Closed I.C.I.P. From 7:00 M. to 7:32P M. Hr. 32 Min. (D) 1487 P.S.I.
Tool Open F.F.P. From 7:32 M. to 8:32P M. Hr. 1 Min. From (E) 1268 P.S.I. To (F) 1307 P.S.I.
Tool Closed F.C.I.P. From 8:32 M. to 9:05P M. Hr. 33 Min. (G) 1451 P.S.I.
Initial Hydrostatic Pressure (A) 2034 P.S.I. Final Hydrostatic Pressure (H) 1993 P.S.I.

SURFACE Size Choke 3/4 In. Max. Press. P.S.I. _____ Time _____ Description of Flow _____
INFORMATION _____ M. _____
_____ M. _____
(See attached Sheet) _____ M. _____

BLOW St.pong Bottom Choke Size 3/4 In.
Did Well Flow Yes No _____ Recovery Total Ft. 10 feet oil-- 180 feet oil cut salt water--60 feet water

Reversed Out Yes No _____ Mud Type starch Viscosity 40 Weight 9.9 Water Loss 24.8 cc. Maximum Temp. 110 °F
Type Circ. Sub. plug Did Tool Plug? no Jars: Size 4 1/2OD Make WTC Ser. No. 408
EXTRA EQUIPMENT: Dual Packers yes Safety Joint no Did Packer Hold? yes Where? _____
Length Drill Pipe 2593 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 989 ft. I.D. Weight Pipe _____ in. Length Drill Collars 173 ft.
I. D. Drill Collars 2 1/4 in. Length D.S.T. Tool 50 ft.

Remarks Gas to surface in 1/2 minutes-- gaged 5,400,000

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WESTERN TESTING CO., INC.
Pressure Data

Date 2-19-69 Test Ticket No. 10966
 Recorder No. 3085 Capacity 4500 Location 3796 Ft.
 Clock No. 6866 Elevation _____ Well Temperature 110 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2034</u>	P.S.I.	<u>6:56P</u>	M
B First Initial Flow Pressure	<u>1237</u>	P.S.I.	<u>3</u>	Mins. <u>3</u> Mins.
C First Final Flow Pressure	<u>1237</u>	P.S.I.	<u>32</u>	Mins. <u>32</u> Mins.
D Initial Closed-in Pressure	<u>1487</u>	P.S.I.	<u>60</u>	Mins. <u>60</u> Mins.
E Second Initial Flow Pressure	<u>1268</u>	P.S.I.	<u>33</u>	Mins. <u>33</u> Mins.
F Second Final Flow Pressure	<u>1307</u>	P.S.I.		
G Final Closed-in Pressure	<u>1451</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1993</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 1 Inc.
 of 3 mins. and a
 final inc. of _____ Min.

Initial Shut-In
 Breakdown: 10 Inc.
 of 3 mins. and a
 final inc. of 2 Min.

Second Flow Pressure
 Breakdown: 12 Inc.
 of 5 mins. and a
 final inc. of _____ Min.

Final Shut-In
 Breakdown: 11 Inc.
 of 3 mins. and a
 final inc. of _____ Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>1237</u>	<u>0</u>	<u>1237</u>	<u>0</u>	<u>1268</u>	<u>0</u>	<u>1307</u>
P 2 <u>3</u>	<u>1237</u>	<u>3</u>	<u>1467</u>	<u>5</u>	<u>1279</u>	<u>3</u>	<u>1418</u>
P 3 <u>6</u>	<u>1237</u>	<u>6</u>	<u>1474</u>	<u>60</u>	<u>1307</u>	<u>6</u>	<u>1428</u>
P 4 _____	_____	<u>9</u>	<u>1476</u>	<u>15</u>	<u>1314</u>	<u>9</u>	<u>1435</u>
P 5 _____	_____	<u>12</u>	<u>1479</u>	<u>20</u>	<u>1309</u>	<u>12</u>	<u>1439</u>
P 6 _____	_____	<u>15</u>	<u>1481</u>	<u>25</u>	<u>1307</u>	<u>15</u>	<u>1442</u>
P 7 _____	_____	<u>18</u>	<u>1483</u>	<u>30</u>	<u>1307</u>	<u>18</u>	<u>1444</u>
P 8 _____	_____	<u>21</u>	<u>1485</u>	<u>35</u>	<u>1307</u>	<u>21</u>	<u>1446</u>
P 9 _____	_____	<u>24</u>	<u>1486</u>	<u>40</u>	<u>1307</u>	<u>24</u>	<u>1447</u>
P10 _____	_____	<u>27</u>	<u>1487</u>	<u>45</u>	<u>1307</u>	<u>27</u>	<u>1448</u>
P11 _____	_____	<u>30</u>	<u>1487</u>	<u>50</u>	<u>1307</u>	<u>30</u>	<u>1449</u>
P12 _____	_____	<u>32</u>	<u>1487</u>	<u>55</u>	<u>1307</u>	<u>33</u>	<u>1451</u>
P13 _____	_____	_____	_____	<u>60</u>	<u>1307</u>	_____	_____
P14 _____	_____	_____	_____	_____	_____	_____	_____
P15 _____	_____	_____	_____	_____	_____	_____	_____
P16 _____	_____	_____	_____	_____	_____	_____	_____
P17 _____	_____	_____	_____	_____	_____	_____	_____
P18 _____	_____	_____	_____	_____	_____	_____	_____
P19 _____	_____	_____	_____	_____	_____	_____	_____
P20 _____	_____	_____	_____	_____	_____	_____	_____

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TILCO ETAL
SHAFT #2

J.K.T. 10966
TEST #3

