



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No 13123

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

Elevation 13036L Formation Miss Eff. Pay Ft.

District Augusta Date 1-28-82 Customer Order No.

COMPANY NAME HOLT OIL & GAS CORP ADDRESS Rm 1255 Campbell Centre II 8150 N. Central Expressway Dallas TX LEASE AND WELL NO. ZEKA #1 COUNTY SUMNER STATE KS Sec. 1 Twp 315 Rge 2W Mail Invoice To AS above No. Copies Requested 2 Mail Charts To AS above Co. Name Address No. Copies Requested 6

Formation Test No. 1 Interval Tested from 3721 ft. to 3739 ft. Total Depth 3739 ft. Packer Depth 3721 ft. Size 6 7/8 in. Packer Depth 3716 ft. Size 6 7/8 in. Packer Depth ft. Size in.

Top Recorder Depth (Inside) 3726 ft. Recorder Number 11018 Cap 4425 Bottom Recorder Depth (Outside) 3730 ft. Recorder Number 13403 Cap 4050 Below Straddle Recorder Depth ft. Recorder Number Cap

Drilling Contractor Range Rig # 3 Drill Collar Length 183 I. D. in. Mud Type Chem Viscosity 48 Weight Pipe Length I. D. in. Weight 9.5 Water Loss 11.2 cc Drill Pipe Length 3509 I. D. in. Chlorides 3000 P.P.M. Test Tool Length 27 ft. Tool Size 5 1/2 in. Jars: Make WTC Serial Number 403 Anchor Length 18 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 7/8 in. Tool Joint Size 4 1/2 in.

Blow: Fair 1st Flow Strong 2nd Flow IFR IFR Recovered 65 ft. of Drilling mud Recovered ft. of Recovered ft. of Recovered ft. of Recovered ft. of Remarks: Slid 5'

Time On Location 8:30 AM P.M. Time Pick Up Tool 1:00 AM P.M. Time Off Location 9:00 AM P.M. Time Set Packer(s) 4:55 AM P.M. Time Started Off Bottom 6:40 AM P.M. Maximum Temperature 117° Initial Hydrostatic Pressure (A) 1845 P.S.I. Initial Flow Period Minutes 15 (B) 55 P.S.I. to (C) 55 P.S.I. Initial Closed In Period Minutes 30 (D) 942 P.S.I. Final Flow Period Minutes 30 (E) 55 P.S.I. to (F) 55 P.S.I. Final Closed In Period Minutes 30 (G) 577 P.S.I. Final Hydrostatic Pressure (H) 1845 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 Roger A. Plan Signature of Customer or his authorized representative

Western Representative Robert Davis

FIELD INVOICE

Open Hole Test \$ 625.00 Misrun \$ Straddle Test \$ Jars \$ 300.00 Selective Zone \$ Safety Joint \$ 65.00 Standby \$ Evaluation \$ Extra Packer \$ Circ. Sub. \$ Mileage \$ 31.75 Fluid Sampler \$ Extra Charts \$ Insurance \$ TOTAL \$ 1026.7

WESTERN TESTING CO., INC.

Pressure Data

Date 1-28-82 Test Ticket No. 15123
 Recorder No. 11018 Capacity 4425 Location 3726 Ft.
 Clock No. --- Elevation 1303 GL Well Temperature 117 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1856</u>	P.S.I.	<u>4:55 A_M</u>	
B First Initial Flow Pressure	<u>64</u>	P.S.I.	<u>15</u> Mins.	<u>10</u> Mins.
C First Final Flow Pressure	<u>64</u>	P.S.I.	<u>30</u> Mins.	<u>39</u> Mins.
D Initial Closed-in Pressure	<u>957</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>89</u>	P.S.I.	<u>30</u> Mins.	<u>33</u> Mins.
F Second Final Flow Pressure	<u>84</u>	P.S.I.		
G Final Closed-in Pressure	<u>597</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1856</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 2 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Initial Shut-In
 Breakdown: 13 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

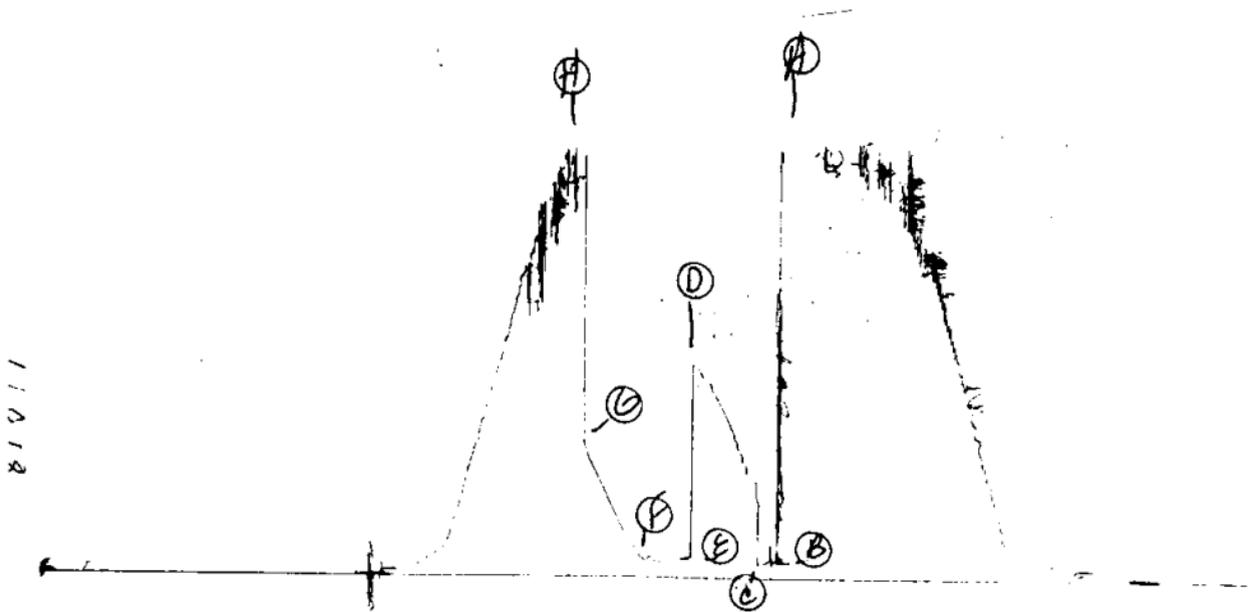
Second Flow Pressure
 Breakdown: 6 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 11 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>64</u>	0	<u>64</u>	0	<u>89</u>	0	<u>84</u>
P 2 5	<u>64</u>	3	<u>458</u>	5	<u>89</u>	3	<u>140</u>
P 3 10	<u>64</u>	6	<u>471</u>	10	<u>75</u>	6	<u>176</u>
P 4 15		9	<u>525</u>	15	<u>71</u>	9	<u>211</u>
P 5 20		12	<u>608</u>	20	<u>78</u>	12	<u>261</u>
P 6 25		15	<u>667</u>	25	<u>95</u>	15	<u>309</u>
P 7 30		18	<u>725</u>	30	<u>84</u>	18	<u>356</u>
P 8 35		21	<u>769</u>	35		21	<u>411</u>
P 9 40		24	<u>816</u>	40		24	<u>456</u>
P10 45		27	<u>867</u>	45		27	<u>506</u>
P11 50		30	<u>893</u>	50		30	<u>555</u>
P12 55		33	<u>927</u>	55		33	<u>597</u>
P13 60		36	<u>948</u>	60		36	
P14		39	<u>957</u>	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	

KK # 13123

I



Company Holt Oil & Gas Corporation Lease & Well No. Zeka #1
 Elevation 1303 Ground Level Formation Mississippi Effective Pay - Ft. Ticker No. 13123
 Date 1/28/82 Sec. 1 Twp. 31S Range 2W County Sumner State Kansas
 Test Approved by Roger A. Plane---- ? Western Representative Robert Davis

Formation Test No. 1 Interval Tested from 3721 ft. to 3739 ft. Total Depth 3739 ft.
 Packer Depth 3721 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 3716 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 3726 ft. Recorder Number 11018 Cap. 4425
 Bottom Recorder Depth (Outside) 3730 ft. Recorder Number 13403 Cap. 4050
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Range Drlg. Rig #3 Drill Collar Length 183 I. D. - in.
 Mud Type chemical Viscosity 48 Weight Pipe Length - I. D. - in.
 Weight 9.5 Water Loss 11.2 cc. Drill Pipe Length 3509 I. D. - in.
 Chlorides 3,000 P.P.M. Test Tool Length 27 ft. Tool Size 5 1/2 in.
 Jars: Make WIC Serial Number 403 Anchor Length 18 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 XH in.

Blow: Initial flow period fair. Strong on final flow period.

Recovered 65 ft. of drilling mud
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks: Slid five feet

Time Set Packer(s) 4:55 ~~PM~~ ^{A.M.} Time Started Off Bottom 6:40 ~~PM~~ ^{A.M.} Maximum Temperature 117°
 Initial Hydrostatic Pressure (A) 1856 P.S.I.
 Initial Flow Period Minutes 10 (B) 64 P.S.I. to (C) 64 P.S.I.
 Initial Closed In Period Minutes 39 (D) 957 P.S.I.
 Final Flow Period Minutes 30 (E) 89 P.S.I. to (F) 84 P.S.I.
 Final Closed In Period Minutes 33 (G) 597 P.S.I.
 Final Hydrostatic Pressure (H) 1856 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 1/28/82 Test Ticket No. 13123
 Recorder No. 11018 Capacity 4425 Location 3726 Ft.
 Clock No. -- Elevation 1303 Ground Level Well Temperature 117 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1856	P.S.I.	4:55A	M
B First Initial Flow Pressure	64	P.S.I.	15	10 Mins.
C First Final Flow Pressure	64	P.S.I.	30	39 Mins.
D Initial Closed-in Pressure	957	P.S.I.	30	30 Mins.
E Second Initial Flow Pressure	89	P.S.I.	30	33 Mins.
F Second Final Flow Pressure	84	P.S.I.		
G Final Closed-in Pressure	597	P.S.I.		
H Final Hydrostatic Mud	1856	P.S.I.		

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.
	2		13		6		11	
	of 5 mins.	and a	of 3 mins.	and a	of 5 mins.	and a	of 3 mins.	and a
	final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1 0	64	0	64	0	89	0	84	
P 2 5	64	3	458	5	89	3	140	
P 3 10	64	6	471	10	75	6	176	
P 4		9	525	15	71	9	211	
P 5		12	608	20	78	12	261	
P 6		15	667	25	95	15	309	
P 7		18	725	30	84	18	356	
P 8		21	769			21	411	
P 9		24	816			24	456	
P10		27	867			27	506	
P11		30	893			30	555	
P12		33	927			33	597	
P13		36	948					
P14		39	957					
P15								
P16								
P17								
P18								
P19								
P20								



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET

No

13124

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

Elevation 13036h Formation KC Eff. Pay Ft.

District Augusta Date 1-29-82 Customer Order No.

COMPANY NAME Holt Oil & Gas Corporation ADDRESS 1255-Cambell Center 8150N. Central Expwy Dallas, Tx 75206

LEASE AND WELL NO. Zeka #1 COUNTY Sumner STATE KS Sec. 1 Twp 315 Rge 2W

Mail Invoice To Same Co. Name Address No. Copies Requested 2

Mail Charts To Same Address No. Copies Requested 6

Formation Test No. 2 Interval Tested from 3108 ft. to 3150 ft. Total Depth 3771 ft.

Packer Depth 3108 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 3150 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3113 ft. Recorder Number 11018 Cap. 4425

Bottom Recorder Depth (Outside) 3117 ft. Recorder Number 13403 Cap. 21050

Below Straddle Recorder Depth 3771 ft. Recorder Number WTC Cap. NA

Drilling Contractor Range # 3 Drill Collar Length 183 I. D. in.

Mud Type Chem Viscosity 50 Weight Pipe Length I. D. in.

Weight 9.6 Water Loss 8.2 cc. Drill Pipe Length 3514 I. D. in.

Chlorides 3,000 P.P.M. Test Tool Length 27 ft. Tool Size 5/8 in.

Jars: Make WTC Serial Number NA Anchor Length 42 ft. Size 5/8 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 X 4 in.

Blow: Weak through out 1st and 2nd flows TEST

Recovered 70 ft. of Drilling mud (19,000 ppm chlorides)

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Show of oil in top of tool

Time On Location 9:00 AM P.M. Time Pick Up Tool 10:30 AM P.M. Time Off Location AM P.M.

Time Set Packer(s) 12:25 AM P.M. Time Started Off Bottom 2:25 AM P.M. Maximum Temperature 111°

Initial Hydrostatic Pressure (A) 1493 P.S.I.

Initial Flow Period Minutes 30 (B) 44 P.S.I. to (C) 44 P.S.I.

Initial Closed In Period Minutes 30 (D) 1030 P.S.I.

Final Flow Period Minutes 30 (E) 55 P.S.I. to (F) 55 P.S.I.

Final Closed In Period Minutes 30 (G) 997 P.S.I.

Final Hydrostatic Pressure (H) 1493 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: Signature of Customer or his authorized representative

Western Representative: Robert Davis

FIELD INVOICE

Table with 2 columns: Item and Amount. Items include Open Hole Test (\$625.00), Misrun, Straddle Test (\$300.00), Jars (\$300), Selective Zone, Safety Joint (\$65.00), Standby, Evaluation, Extra Packer, Circ. Sub., Mileage (\$36.75), Fluid Sampler, Extra Charts, Insurance, and TOTAL (\$1326.75).

WESTERN TESTING CO., INC.

Pressure Data

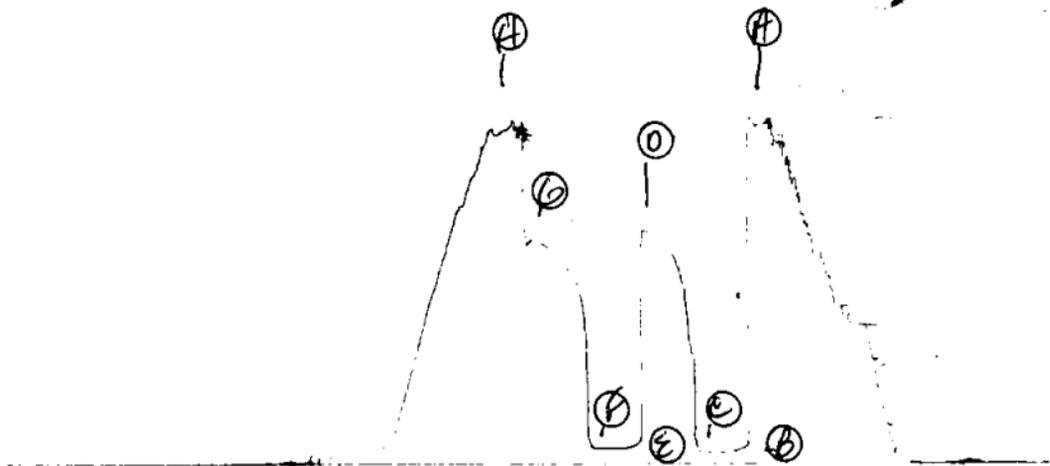
Date 1-29-82 Test Ticket No. 13124
 Recorder No. 11018 Capacity 4425 Location 3113 Ft
 Clock No. --- Elevation 1303 6L Well Temperature 111 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1506</u>	P.S.I.	<u>12:25</u> AM	
B First Initial Flow Pressure	<u>55</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>55</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1044</u>	P.S.I.	<u>30</u> Mins.	<u>36</u> Mins.
E Second Initial Flow Pressure	<u>73</u>	P.S.I.	<u>30</u> Mins.	<u>33</u> Mins.
F Second Final Flow Pressure	<u>73</u>	P.S.I.		
G Final Closed-in Pressure	<u>1008</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1498</u>	P.S.I.		

PRESSURE BREAKDOWN

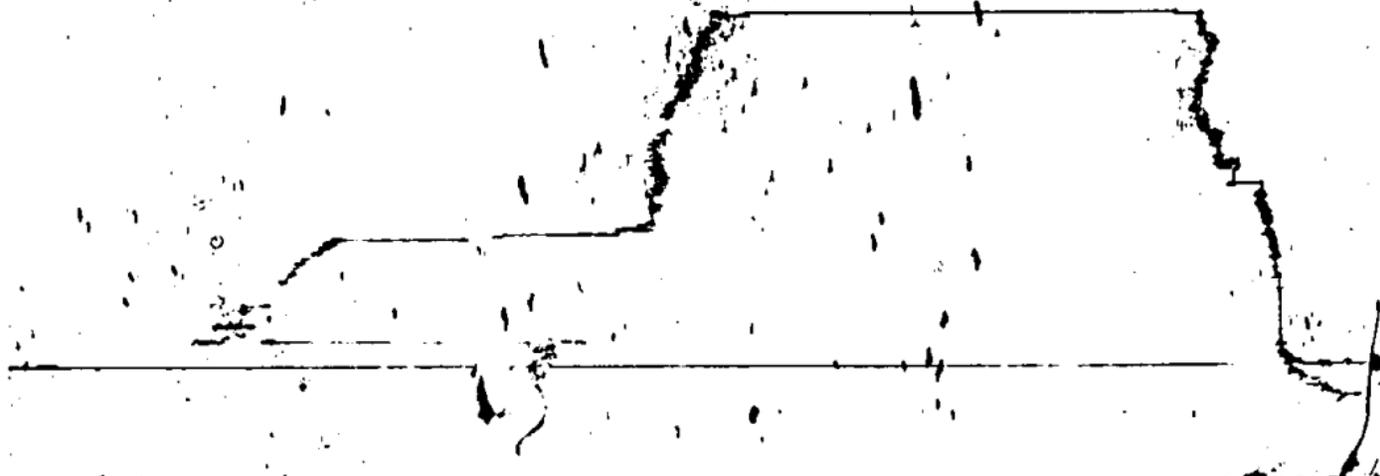
First Flow Pressure Breakdown: <u>5</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>11</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	<u>55</u>	0	<u>55</u>	0	<u>73</u>	0	<u>73</u>
P 2		3	<u>519</u>	5		3	<u>600</u>
P 3		6	<u>712</u>	10		6	<u>766</u>
P 4		9	<u>847</u>	15		9	<u>832</u>
P 5		12	<u>918</u>	20		12	<u>863</u>
P 6		15	<u>951</u>	25		15	<u>900</u>
P 7	<u>55</u>	18	<u>976</u>	30	<u>73</u>	18	<u>931</u>
P 8		21	<u>998</u>	35		21	<u>950</u>
P 9		24	<u>1020</u>	40		24	<u>965</u>
P 10		27	<u>1035</u>	45		27	<u>983</u>
P 11		30	<u>1044</u>	50		30	<u>993</u>
P 12		33		55		33	<u>1008</u>
P 13		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				60	

JK # 13124
I



3/4 # 13124

Below Straddle



Company Holt Oil & Gas Corporation Lease & Well No. Zeka #1
 Elevation 1303 Ground Level Formation Kansas City Effective Pay - Ft. Ticket No. 13124
 Date 1/29/82 Sec. 1 Twp. 31S Range 2W County Sumner State Kansas
 Test Approved by Roger N - Western Representative Robert Davis

Formation Test No. 2 Interval Tested from 3108 ft. to 3150 ft. Total Depth 3771 ft.
 Packer Depth 3108 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 3150 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3113 ft. Recorder Number 11018 Cap. 4425
 Bottom Recorder Depth (Outside) 3117 ft. Recorder Number 13403 Cap. 4050
 Below Straddle Recorder Depth 3771 ft. Recorder Number WTC Cap. -

Drilling Contractor Range Rig #3 Drill Collar Length 183 I. D. - in.
 Mud Type Chemical Viscosity 50 Weight Pipe Length - I. D. - in.
 Weight 9.6 Water Loss 8.2 cc. Drill Pipe Length 3514 I. D. - in.
 Chlorides 3000 P.P.M. Test Tool Length 27 ft. Tool Size 5 1/2 in.
 Jars: Make WTC Serial Number 401 Anchor Length 42 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 XH in.

Blow: Weak throughout test.

Recovered 70 ft. of drilling mud Chlorides 19,000 PPM
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Show of oil in top of tool.

Time Set Packer(s)	<u>12:25</u>	P.M. <u>A.M.</u>	Time Started Off Bottom	<u>2:25</u>	P.M. <u>A.M.</u>	Maximum Temperature	<u>111</u>
Initial Hydrostatic Pressure			(A)	<u>1506</u>		P.S.I.	
Initial Flow Period		Minutes	<u>30</u>	(B)	<u>55</u>	P.S.I. to (C)	<u>55</u> P.S.I.
Initial Closed In Period		Minutes	<u>30</u>	(D)	<u>1044</u>		P.S.I.
Final Flow Period		Minutes	<u>30</u>	(E)	<u>73</u>	P.S.I. to (F)	<u>73</u> P.S.I.
Final Closed In Period		Minutes	<u>33</u>	(G)	<u>1008</u>		P.S.I.
Final Hydrostatic Pressure			(H)	<u>1498</u>		P.S.I.	

WESTERN TESTING CO., INC.
Pressure Data

Date 1/29/82 Test Ticket No. 13124
 Recorder No. 11018 Capacity 4425 Location 3113 Ft.
 Clock No. - Elevation 1303 Ground Level Well Temperature 111 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1506</u>	P.S.I.	<u>12:25A</u>	<u>M</u>
B First Initial Flow Pressure	<u>55</u>	P.S.I.	<u>30</u>	<u>Mins. 30 Mins.</u>
C First Final Flow Pressure	<u>55</u>	P.S.I.	<u>30</u>	<u>Mins. 30 Mins.</u>
D Initial Closed-in Pressure	<u>1044</u>	P.S.I.	<u>30</u>	<u>Mins. 30 Mins.</u>
E Second Initial Flow Pressure	<u>73</u>	P.S.I.	<u>30</u>	<u>Mins. 33 Mins.</u>
F Second Final Flow Pressure	<u>73</u>	P.S.I.		
G Final Closed-in Pressure	<u>1008</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1498</u>	P.S.I.		

PRESSURE BREAKDOWN

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>10</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>11</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
--	---	---	---

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>55</u>	<u>0</u>	<u>55</u>	<u>0</u>	<u>73</u>	<u>0</u>	<u>73</u>
P 2 <u>5</u>	<u>55</u>	<u>3</u>	<u>519</u>	<u>5</u>	<u>73</u>	<u>3</u>	<u>600</u>
P 3 <u>10</u>	<u>55</u>	<u>6</u>	<u>712</u>	<u>10</u>	<u>73</u>	<u>6</u>	<u>766</u>
P 4 <u>15</u>	<u>55</u>	<u>9</u>	<u>847</u>	<u>15</u>	<u>73</u>	<u>9</u>	<u>832</u>
P 5 <u>20</u>	<u>55</u>	<u>12</u>	<u>918</u>	<u>20</u>	<u>73</u>	<u>12</u>	<u>863</u>
P 6 <u>25</u>	<u>55</u>	<u>15</u>	<u>951</u>	<u>25</u>	<u>73</u>	<u>15</u>	<u>900</u>
P 7 <u>30</u>	<u>55</u>	<u>18</u>	<u>976</u>	<u>30</u>	<u>73</u>	<u>18</u>	<u>931</u>
P 8 _____	_____	<u>21</u>	<u>998</u>	_____	_____	<u>21</u>	<u>950</u>
P 9 _____	_____	<u>24</u>	<u>1020</u>	_____	_____	<u>24</u>	<u>965</u>
P10 _____	_____	<u>27</u>	<u>1035</u>	_____	_____	<u>27</u>	<u>983</u>
P11 _____	_____	<u>30</u>	<u>1044</u>	_____	_____	<u>30</u>	<u>993</u>
P12 _____	_____	_____	_____	_____	_____	<u>33</u>	<u>1008</u>
P13 _____	_____	_____	_____	_____	_____	_____	_____
P14 _____	_____	_____	_____	_____	_____	_____	_____
P15 _____	_____	_____	_____	_____	_____	_____	_____
P16 _____	_____	_____	_____	_____	_____	_____	_____
P17 _____	_____	_____	_____	_____	_____	_____	_____
P18 _____	_____	_____	_____	_____	_____	_____	_____
P19 _____	_____	_____	_____	_____	_____	_____	_____
P20 _____	_____	_____	_____	_____	_____	_____	_____