TEST REPORT

(303) 473-6909
P.O. Box 2260
Colorado Springs, CO 80901

Test Ticket No. 2484

Company A. Scott Ritchie Date 12/09/82

Company Address 125 N. Market, Suite 950 Wichita, KS 67202 No. of Charts 5

Location: Sec. 17 Twp. 11S Rge. 22W Co. Trego State KS

Well Name And Number Carpenter B-#2 Tester Troy Leiker

Contractor Murfin Drilling Rig No. 16 Co. Rep. Rocky Milferd

Engineering Data

Elevation 2,188 K.B.

Mud Viscosity 33

Mud Weight 9.2

Water Loss 16.6

Type of Mud Starch

Anchor Length 57'

Hole Size 7 7/8

Casing Size 8 5/8

Surface Choke 3/4

Bottom Choke 3/4

Drill Pipe Length 2,609 I.D. 3.8 In.

Weight Pipe Length 467 I.D. 2.76 In.

Drill Collar Length ____ I.D. ____ In.

Top Packer Depth.

Bottom Packer Depth 3,280

Tool Joint Size 4½ XH

Test Tool Size 5 1/2

Packer Size 6 3/4

Reversed Out NO

Recorder Type and No. AK-1 11084 Clock Range No. 21048 12 Hr.

Recorder Type and No. AK-1 10995 Clock Range No. 22348 12 Hr.

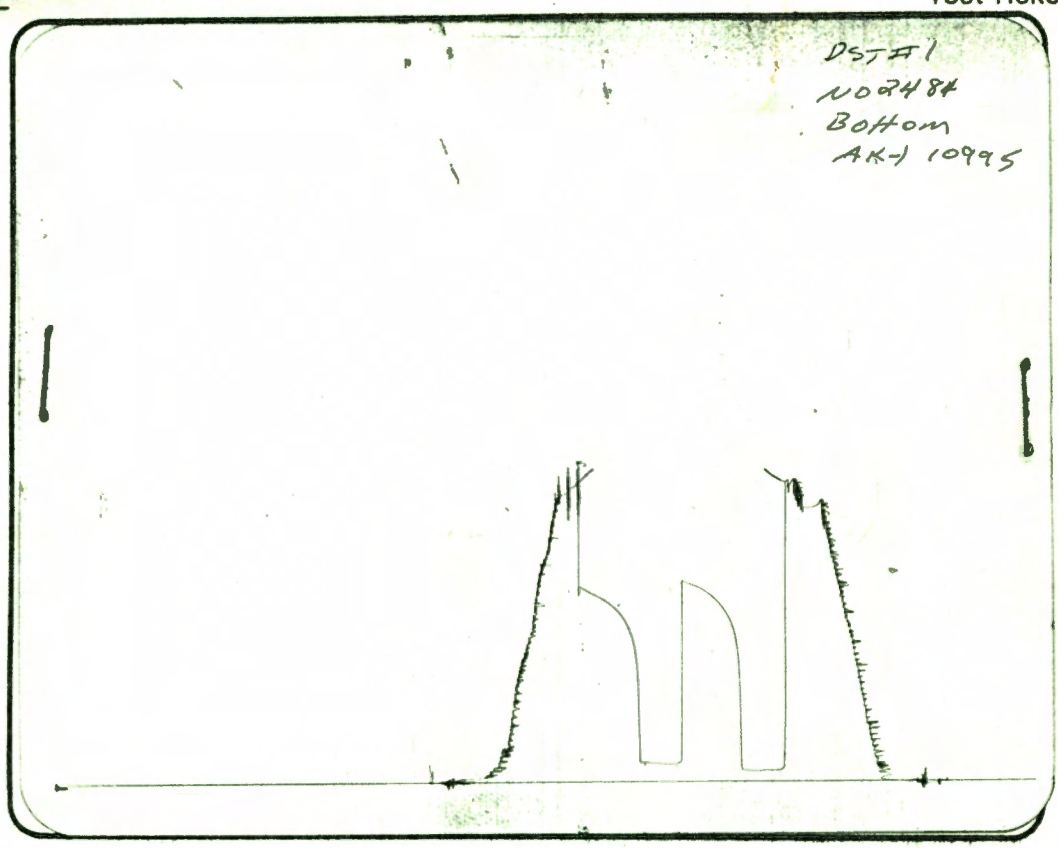
Extra Equipment Single Conv. Packer

Remarks Read Bottom Chart, Top clock stopped. Open Hole Test

CRUDE OIL TESTING INC.

Date 12/09/82 Test Ticket No. 2484

DST # 1



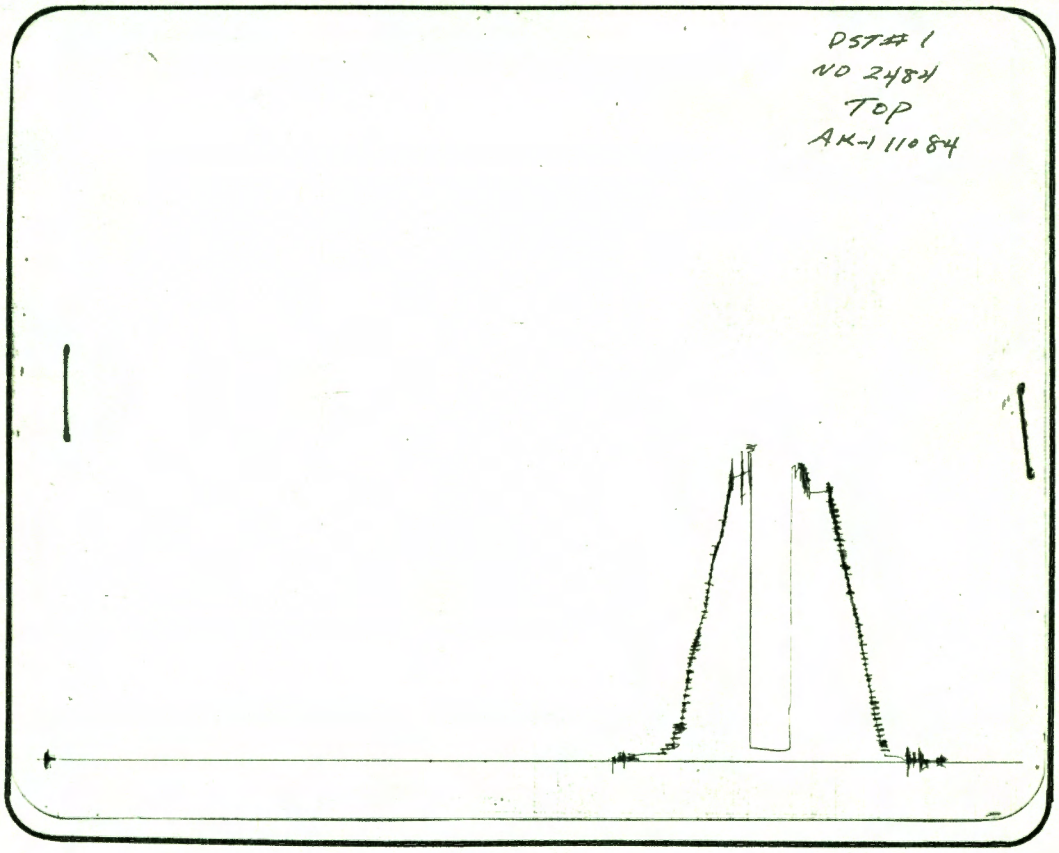
Formation Topeka Zone _____ Type of Test Conventional
Interval 3,280 To 3,337 Total Depth 3,337
Open 30 Shut In 45 Open 30 Shut In 45
Packer(s) Set 11:43 P.M. Started off Bottom 2:15 A.M.
Blow 1st Opening Weak increasing blow to 4" in bucket
2nd Opening Fair blow to 6" in bucket

Recovery Total Feet 144'
Recovered 144' Ft. of muddy salt water
Recovered _____ Ft. of _____
Recovered _____ Ft. of _____
Recovered _____ Ft. of _____

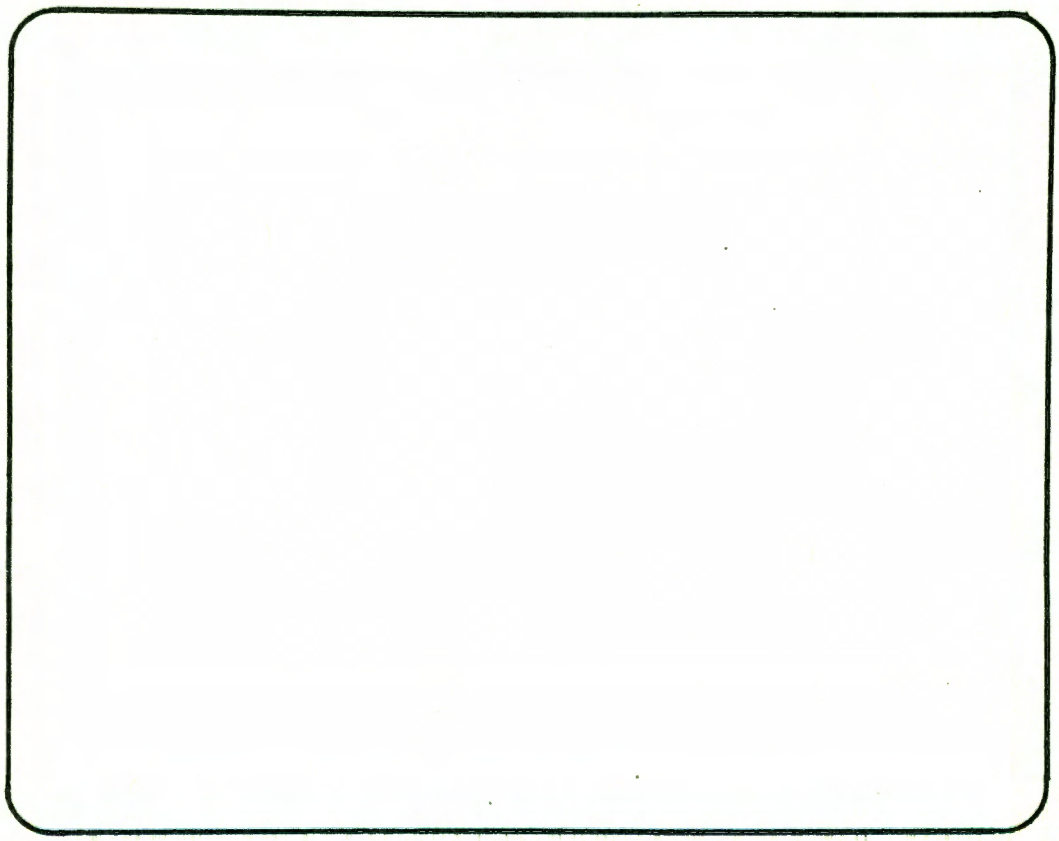
Calculated Recovery Gas _____ Oil _____ WTR 100.8 MUD 43.2
Gravity (Oil) _____ Corrected To Temp. _____ °F Test Water Chlorides 80,000 P.P.M.
Test Area Temperature 100 °F Mud System Chlorides 39,000 P.P.M.

PRESSURE		Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	1,659	1,658	PSI
(B)	First Initial Flow Pressure	65	59	PSI
(C)	First Final Flow Pressure	65	59	PSI
(D)	Initial Closed-in Pressure	1,112	1,117	PSI
(E)	Second Initial Flow Pressure	87	97	PSI
(F)	Second Final Flow Pressure	97	108	PSI
(G)	Final Closed-in Pressure	1,090	1,084	PSI
(H)	Final Hydrostatic Mud	1,637	1,658	PSI

CRUDE OIL TESTING INC.



Extra recorder chart



Blank off recorder chart

These are actual photographs of recorder charts.

CRUDE OIL TESTING

P.O. Box 2260
Colorado Springs, Colorado 80901
(303) 473-6909

Recorder Location 3,327 Ft. Recorder No. 10995 Test Ticket No. 2484

PRESSURE BREAKDOWN

First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In
Breakdown: 6 Inc.	Breakdown: 9 Inc.	Breakdown: 6 Inc.	Breakdown: 9 Inc.
of 5 mins. and a	of 5 mins. and a	of 5 mins.and a	of 5 mins. and a
final Inc. of ____ Min.	final Inc. of 2 Min.	final Inc. of 1 Min.	final Inc. of ____ Min.

	Points Minutes	Press.	Points Minutes	Press.	Points Minutes	Press.	Points Minutes	Press.
P01	00	59	00	59	00	97	00	108
P02	05	59	05	686	05	97	05	761
P03	10	59	10	880	10	97	10	869
P04	15	59	15	950	15	97	15	934
P05	20	59	20	1,004	20	102	20	977
P06	25	59	25	1,036	25	108	25	1,004
P07	30	59	30	1,064	30	108	30	1,031
P08			35	1,084	35	108	35	1,047
P09			40	1,100			40	1,068
P10			45	1,111			45	1,084
P11			50	1,117				
P12								
P13								
P14								
P15								
P16								
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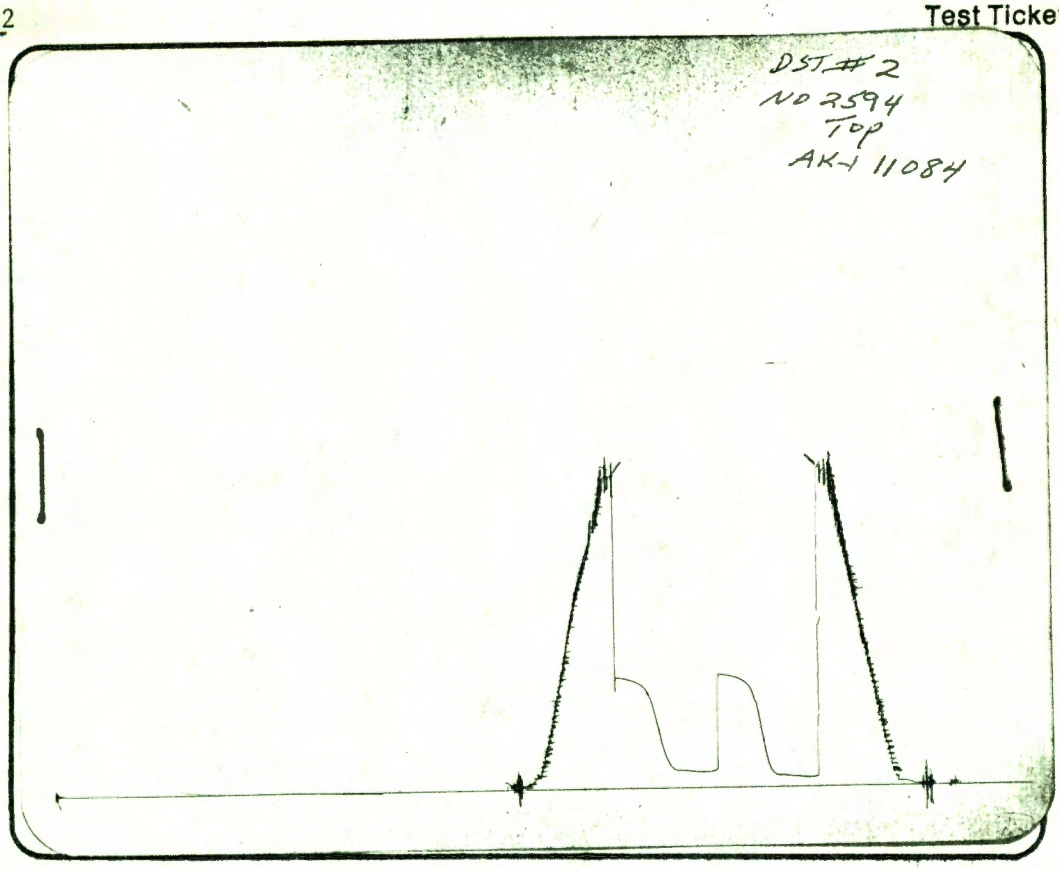
CRUDE OIL TESTING INC.

Date 12/11/82 Test Ticket No. 2594

DST # 2



Formation Kansas City Zone 35' & 50' Type of Test Conventional
Interval 3,470 To 3,511 Total Depth 3,511
Open 30 Shut In 45 Open 30 Shut In 45
Packer(s) Set 12:58 P.M. Started off Bottom 3:30 A.M.
Blow 1st Opening fair to good blow off bottom in 12 min. (6" bkt)
2nd Opening fair to good blow off bottom in 11 min. (6" bkt)

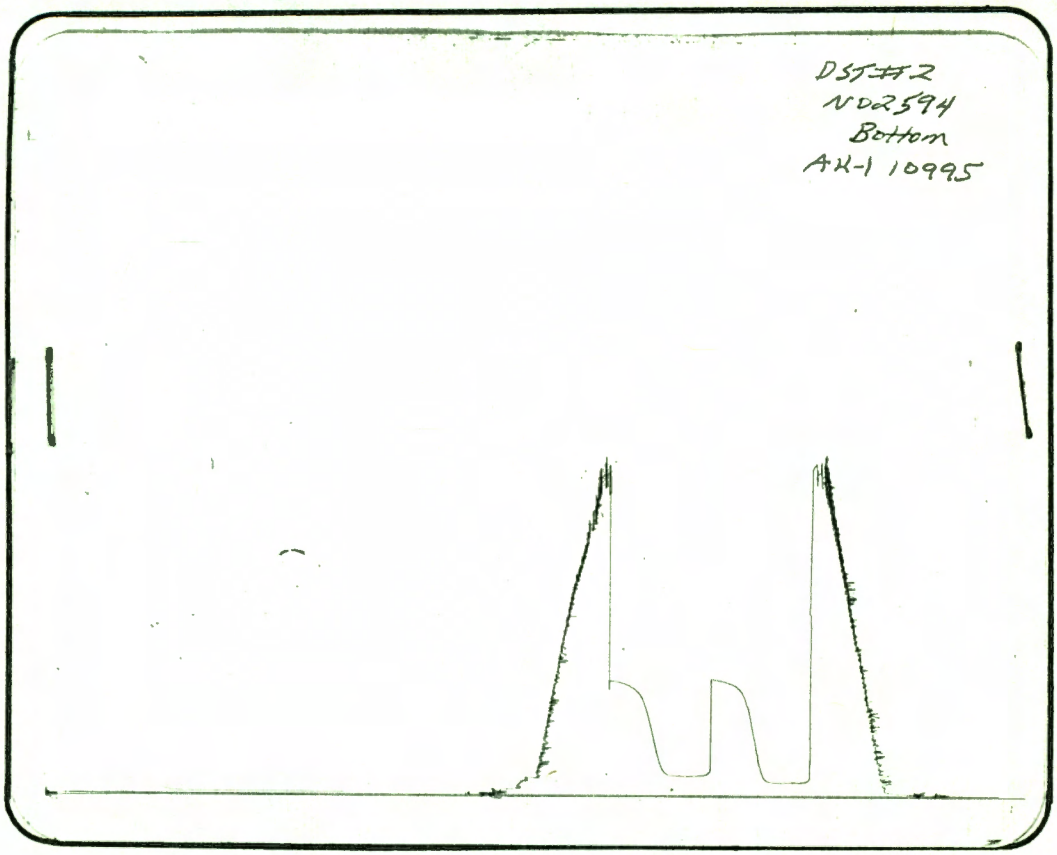
Recovery
Total Feet 409
Recovered 240 Ft. of gas in pipe
Recovered 169 Ft. of oil cut mud
Recovered Ft. of
Recovered Ft. of (23% oil)

Calculated Recovery
Gas 28.45 Oil 39.15 WTR 50.7 MUD 50.7
Gravity (Oil) Corrected To Temp. °F Test Water Chlorides 37,000 P.P.M.
Test Area Temperature 110 °F Mud System Chlorides 34,000 P.P.M.

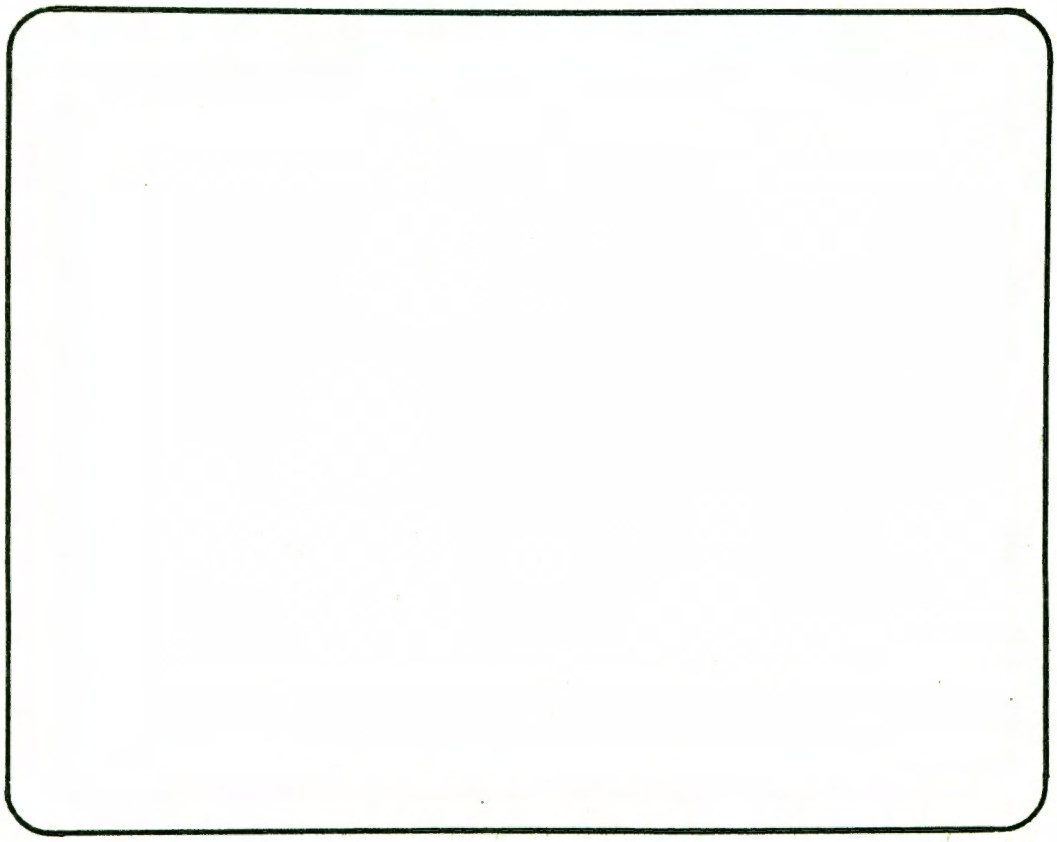
PRESSURE

	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1,789	1,799	PSI
(B) First Initial Flow Pressure	55	54	PSI
(C) First Final Flow Pressure	66	71	PSI
(D) Initial Closed-in Pressure	645	645	PSI
(E) Second Initial Flow Pressure	88	93	PSI
(F) Second Final Flow Pressure	99	98	PSI
(G) Final Closed-in Pressure	623	634	PSI
(H) Final Hydrostatic Mud	1,767	1,778	PSI

CRUDE OIL TESTING INC.



Extra recorder chart



Blank off recorder chart

These are actual photographs of recorder charts.

TEST REPORT

(303) 473-6909
P.O. Box 2260
Colorado Springs, CO 80901

Test Ticket No. 2594

Company A. Scott Ritchie Date 12/11/82

Company Address 125 N. Market, Suite 950 Wichita,KS 67202 No. of Charts 5

Location: Sec. 17 Twp. 11S Rge. 22W Co. Trego State KS

Well Name And Number Carpenter B-#2 Tester Troy Leiker

Contractor Murfin Drlg. Rig No. 16 Co. Rep. Rocky Milford

Engineering Data

Elevation 2,193 K.B.

Mud Viscosity 38

Mud Weight 9.4

Water Loss 12.6

Type of Mud Starch

Anchor Length 41'

Hole Size 7 7/8

Casing Size 8 5/8

Surface Choke 3/4

Bottom Choke 3/4

Drill Pipe Length 2,795 I.D. 3.8 In.

Weight Pipe Length 467 I.D. 2.76 In.

Drill Collar Length ____ I.D. ____ In.

Top Packer Depth.

Bottom Packer Depth 3,470

Tool Joint Size 4½ FH

Test Tool Size 5 1/2

Packer Size 6 3/4

Reversed Out NO

Recorder Type and No. AK-1 11084 Clock Range No. 21048 12 Hr.

Recorder Type and No. AK-1 10995 Clock Range No. 22348 12 Hr.

Extra Equipment

Remarks Open Hole Test

CRUDE OIL TESTING

P.O. Box 2260
Colorado Springs, Colorado 80901
(303) 473-6909

Recorder Location 3,501 Ft. Recorder No. 11084 Test Ticket No. 2594

PRESSURE BREAKDOWN

First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In
Breakdown: 6 Inc.	Breakdown: 8 Inc.	Breakdown: 6 Inc.	Breakdown: 9 Inc.
of 5 mins. and a	of 5 mins. and a	of 5 mins.and a	of 5 mins. and a
final inc. of ____ Min.	final inc. of 4 Min.	final inc. of ____ Min.	final inc. of ____ Min.

Points	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Minutes	Press.	Minutes	Press.	Minutes	Press.	Minutes	Press.
P01	00	54	00	71	00	93	00	98
P02	05	54	05	104	05	93	05	131
P03	10	54	10	219	10	93	10	224
P04	15	60	15	438	15	93	15	400
P05	20	65	20	563	20	98	20	531
P06	25	65	25	607	25	98	25	585
P07	30	71	30	628	30	98	30	607
P08			35	639			35	618
P09			40	645			40	628
P10			45	645			45	634
P11								
P12								
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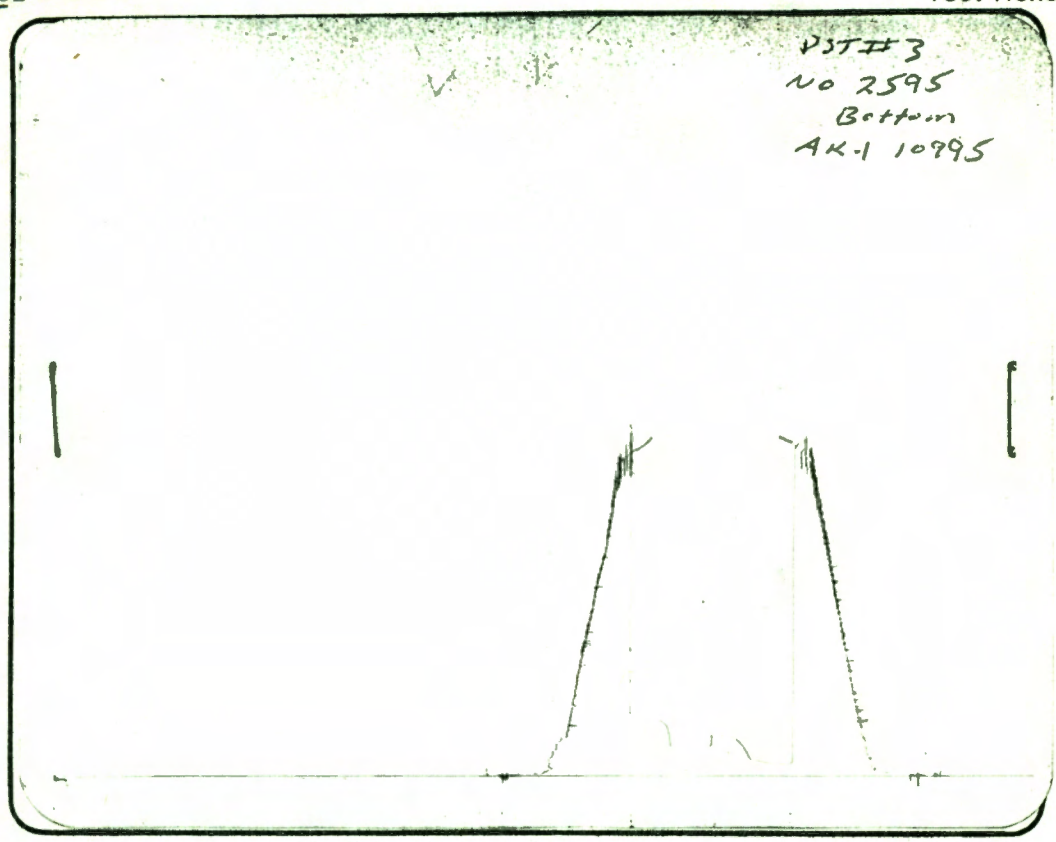
CRUDE OIL TESTING INC.

Date 12/11/82 Test Ticket No. 2595

DST # 3



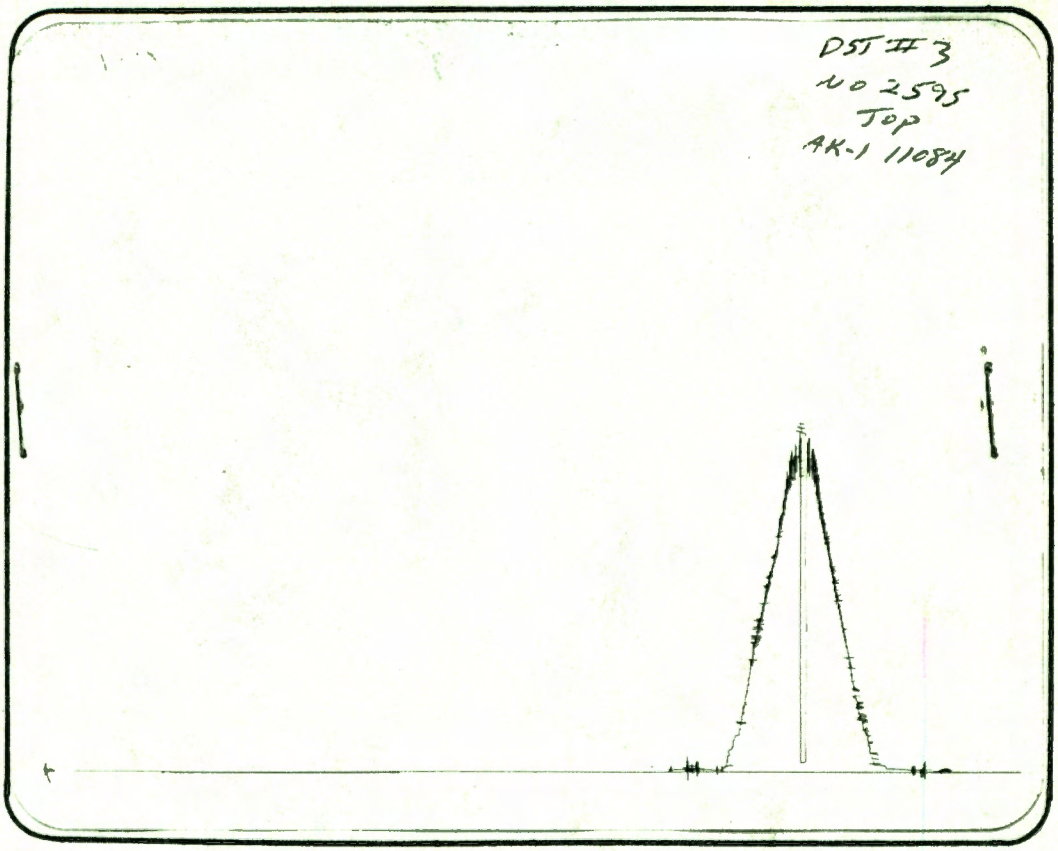
Formation Kansas City Zone 70' Type of Test Conventional
Interval 3,506 To 3,526 Total Depth 3,526
Open 30 Shut In 30 Open 30 Shut In 30
Packer(s) Set 1:13 P.M. Started off Bottom 3:15 P.M.
Blow 1st Opening Strong blow off bottom in 2 minutes
2nd Opening Strong blow off bottom in 2 minutes

Recovery Total Feet 1,270'
Recovered 868 Ft. of gas in pipe
Recovered 402 Ft. of heavy gassy oil
Recovered _____ Ft. of _____
Recovered _____ Ft. of _____

Calculated Recovery Gas 138.26 Oil 246.84 WTR 13.54 MUD 3.36
Gravity (Oil) _____ Corrected To Temp. _____ °F Test Water Chlorides Filtrat P.P.M.
Test Area Temperature 110 °F Mud System Chlorides 29,000 P.P.M.

PRESSURE		**Field Reading**	**Office Reading**	
(A)	Initial Hydrostatic Mud	1,852	1,830	PSI
(B)	First Initial Flow Pressure	66	64	PSI
(C)	First Final Flow Pressure	77	92	PSI
(D)	Initial Closed-in Pressure	216	227	PSI
(E)	Second Initial Flow Pressure	152	162	PSI
(F)	Second Final Flow Pressure	162	162	PSI
(G)	Final Closed-in Pressure	336	346	PSI
(H)	Final Hydrostatic Mud	1,830	1,798	PSI

CRUDE OIL TESTING INC.



Extra recorder chart

Blank off recorder chart

These are actual photographs of recorder charts.

TEST REPORT

(303) 473-6909
P.O. Box 2260
Colorado Springs, CO 80901

Test Ticket No. 2595

Company A. Scott Ritchie Date 12/11/82

Company Address 125 N. Market, Suite 950 Wichita, KS 67202 No. of Charts 5

Location: Sec. 17 Twp. 11S Rge. 22W Co. Trego State KS

Well Name And Number Carpenter B-#2 Tester Troy Leiker

Contractor Murfin Drilling Rig No. 16 Co. Rep. Rocky Milford

Engineering Data

Elevation 3,506

Mud Viscosity 41

Mud Weight 9.6

Water Loss 12.6

Type of Mud Starch

Anchor Length 20'

Hole Size 7 7/8

Casing Size 8 5/8

Surface Choke 3/4

Bottom Choke 3/4

Drill Pipe Length 2,795 I.D. 3.8 In.

Weight Pipe Length 467 I.D. 2.76 In.

Drill Collar Length ____ I.D. ____ In.

Top Packer Depth.

Bottom Packer Depth 3,506

Tool Joint Size 4½ FH

Test Tool Size 5 1/2

Packer Size 6 3/4

Reversed Out NO

Recorder Type and No. AK-1 11084 Clock Range No. 21048 12 Hr.

Recorder Type and No. AK-1 10995 Clock Range No. 22348 12 Hr.

Extra Equipment

Remarks Read Bottom Chart. Open Hole Test.

CRUDE OIL TESTING

P.O. Box 2260
Colorado Springs, Colorado 80901
(303) 473-6909

Recorder Location 3516 Ft. Recorder No. 10995 Test Ticket No. 2595

PRESSURE BREAKDOWN

First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In
Breakdown: 6 Inc.	Breakdown: 6 Inc.	Breakdown: 6 Inc.	Breakdown: 6 Inc.
of 5 mins. and a	of 5 mins. and a	of 5 mins.and a	of 5 mins. and a
final inc. of ____ Min.	final inc. of ____ Min.	final inc. of ____ Min.	final inc. of ____ Min.

	Points Minutes	Press.	Points Minutes	Press.	Points Minutes	Press.	Points Minutes	Press.
P01	00	64	00	92	00	162	00	162
P02	05	64	05	140	05	162	05	286
P03	10	64	10	189	10	162	10	313
P04	15	64	15	216	15	162	15	324
P05	20	75	20	221	20	162	20	330
P06	25	86	25	227	25	162	25	335
P07	30	92	30	227	30	162	30	346
P08								
P09								
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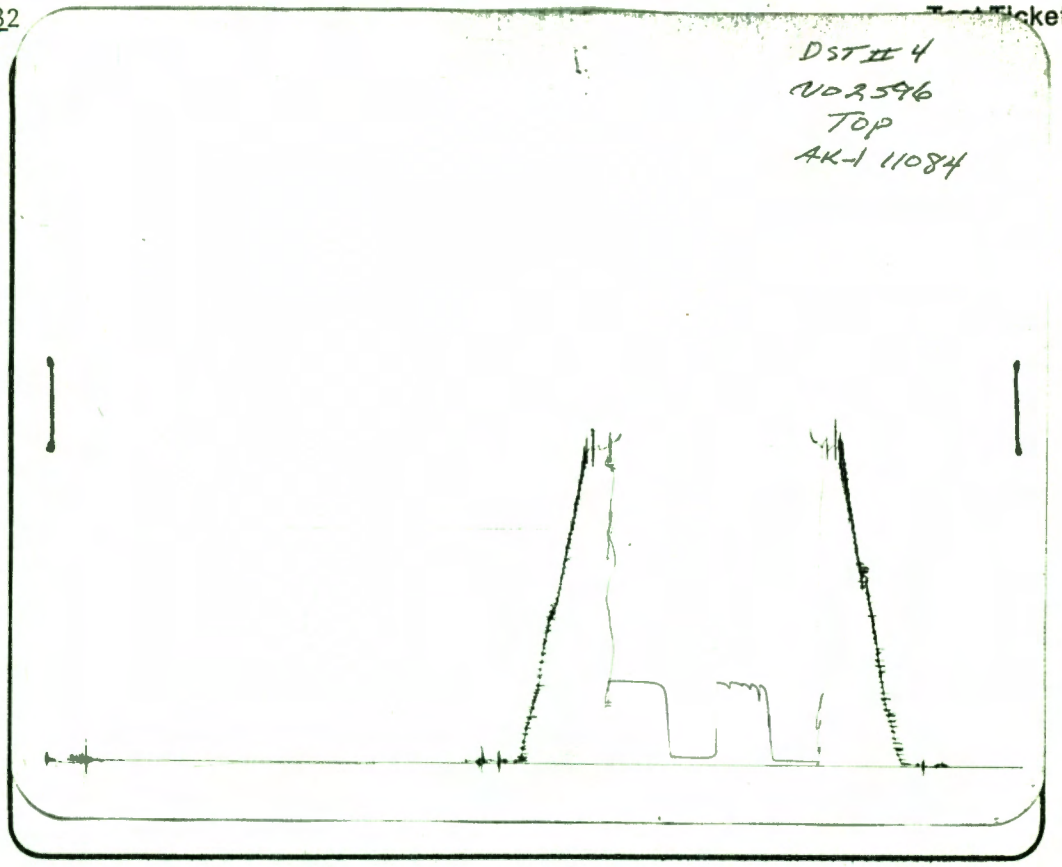
CRUDE OIL TESTING INC.

Date 12/12/82 Test Ticket No. 2596

DST # 4



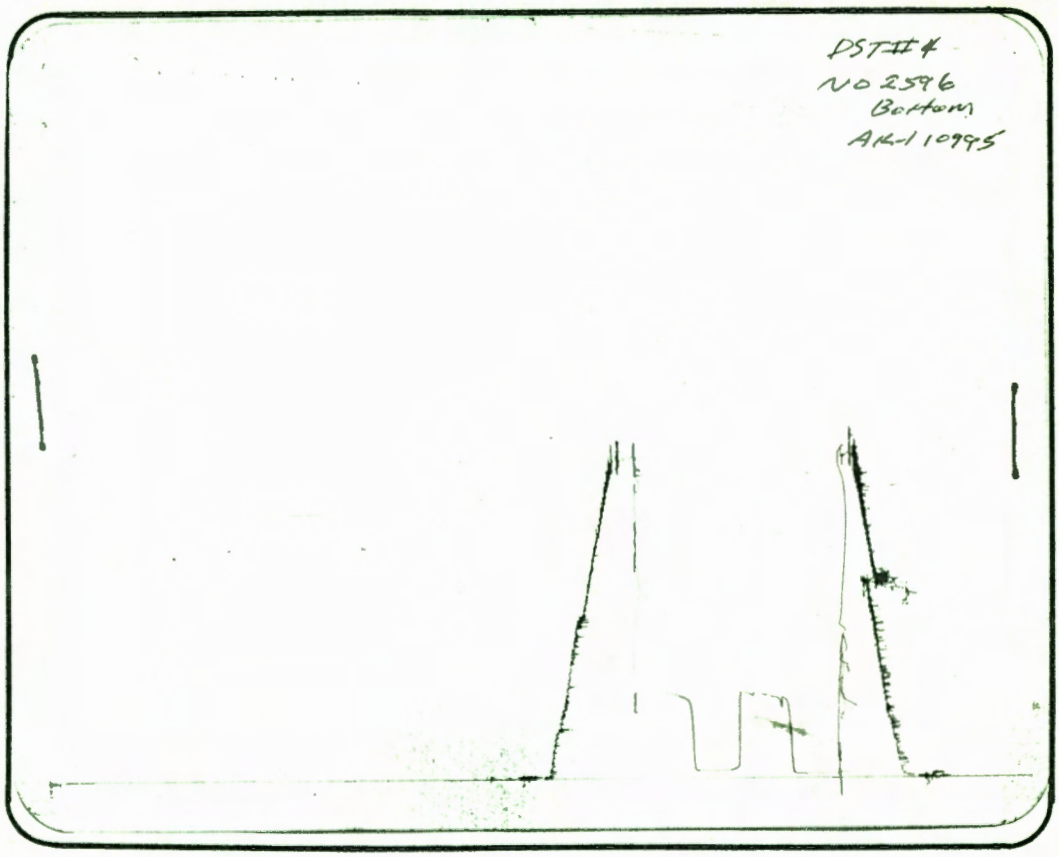
Formation Kansas City Zone 90' Type of Test Conventional
Interval 3,531 To 3,540 Total Depth 3,540
Open 30 Shut In 45 Open 30 Shut In 45
Packer(s) Set 11:58 P.M. Started off Bottom 2:30 A.M.
Blow 1st Opening Weak increasing blow to 1½" on both flow periods
2nd Opening "

Recovery
Total Feet 60'
Recovered 60' Ft. of watery mud
Recovered Ft. of
Recovered Ft. of
Recovered Ft. of

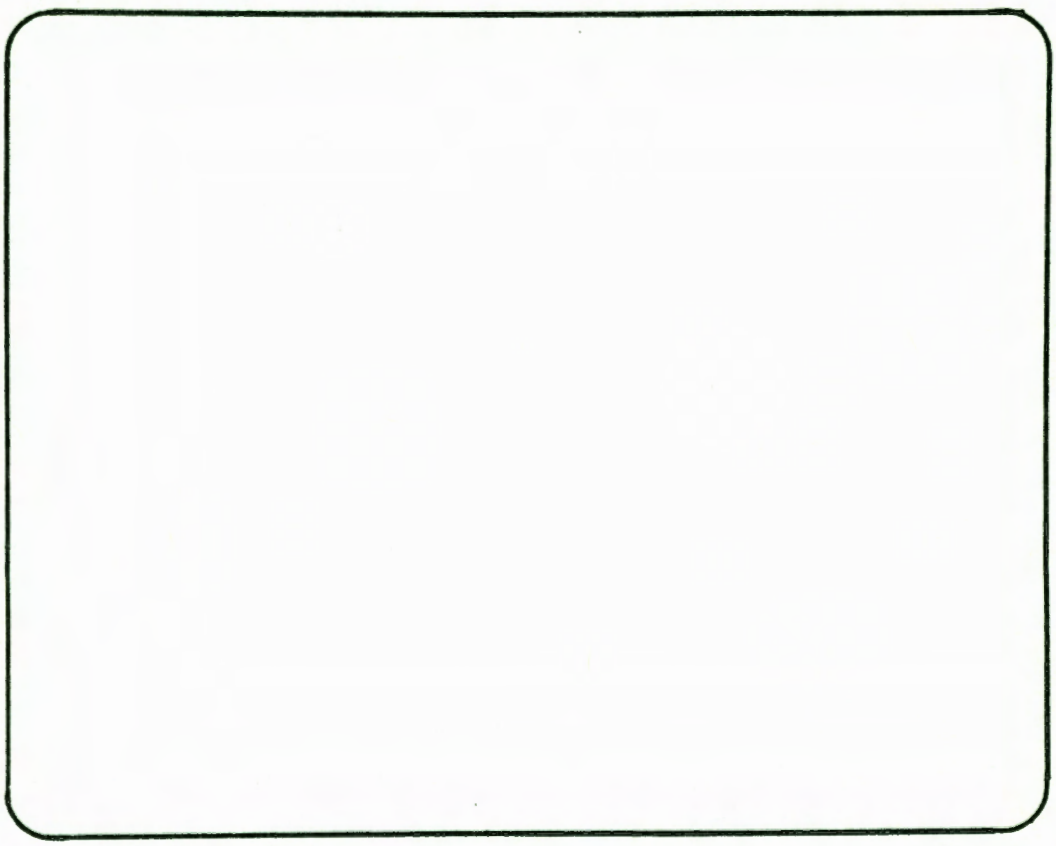
Calculated Recovery
Gas Oil WTR 23.4 MUD 36.6
Gravity (Oil) Corrected To Temp. °F Test Water Chlorides 44,000 P.P.M.
Test Area Temperature 112 °F Mud System Chlorides 30,000 P.P.M.

PRESSURE		Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	1,767	1,794	PSI
(B)	First Initial Flow Pressure	22	27	PSI
(C)	First Final Flow Pressure	22	32	PSI
(D)	Initial Closed-in Pressure	471	477	PSI
(E)	Second Initial Flow Pressure	44	43	PSI
(F)	Second Final Flow Pressure	44	43	PSI
(G)	Final Closed-in Pressure	471	471	PSI
(H)	Final Hydrostatic Mud	1,746	1,794	PSI

CRUDE OIL TESTING INC.



Extra recorder chart



Blank off recorder chart

These are actual photographs of recorder charts.

TEST REPORT

(303) 473-6909
P.O. Box 2260
Colorado Springs, CO 80901

Test Ticket No. 2596

Company A. Scott Ritchie Date 12/12/82

Company Address 125 N. Market, Suite 950 Wichita, KS 67202 No. of Charts 5

Location: Sec. 17 Twp. 11S Rge. 22W Co. Trego State KS

Well Name And Number Carpenter B-#2 Tester Troy Leiker

Contractor Murfin Drlg. Rig No. #16 Co. Rep. Rocky Milford

Engineering Data

Elevation 2,193 K.B.

Mud Viscosity 41

Mud Weight 9.6

Water Loss 12.6

Type of Mud Starch

Anchor Length 9'

Hole Size 7 7/8

Casing Size 8 5/8

Surface Choke 3/4

Bottom Choke 3/4

Drill Pipe Length 2,826 I.D. 3.8 In.

Weight Pipe Length 467 I.D. 2.76 In.

Drill Collar Length ____ I.D. ____ In.

Top Packer Depth.

Bottom Packer Depth 3,531

Tool Joint Size 4½ FH

Test Tool Size 5 1/2

Packer Size 6 3/4

Reversed Out NO

Recorder Type and No. AK-1 11084 Clock Range No. 23830 12 Hr.

Recorder Type and No. AK-1 10995 Clock Range No. 22348 12 Hr.

Extra Equipment

Remarks Open Hole Test. Top recorder was above packer.

CRUDE OIL TESTING

P.O. Box 2260
Colorado Springs, Colorado 80901
(303) 473-6909

Recorder Location 3,530 Ft. Recorder No. 11084 Test Ticket No. 2596

PRESSURE BREAKDOWN

First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In
Breakdown: 6 Inc.	Breakdown: 9 Inc.	Breakdown: 6 Inc.	Breakdown: 10 Inc.
of 5 mins. and a	of 5 mins. and a	of 5 mins.and a	of 5 mins. and a
final inc. of ____ Min.	final inc. of 1 Min.	final inc. of ____ Min.	final inc. of ____ Min.

	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Points Minutes	Press.	Points Minutes	Press.	Points Minutes	Press.	Points Minutes	Press.
P01	00	27	00	32	00	43	00	43
P02	05	27	05	82	05	43	05	109
P03	10	27	10	416	10	43	10	438
P04	15	27	15	460	15	43	15	460
P05	20	27	20	466	20	43	20	466
P06	25	32	25	466	25	43	25	471
P07	30	32	30	471	30	43	30	471
P08			35	477			35	471
P09			40	477			40	471
P10			45	477			45	471
P11			50	477			50	471
P12								
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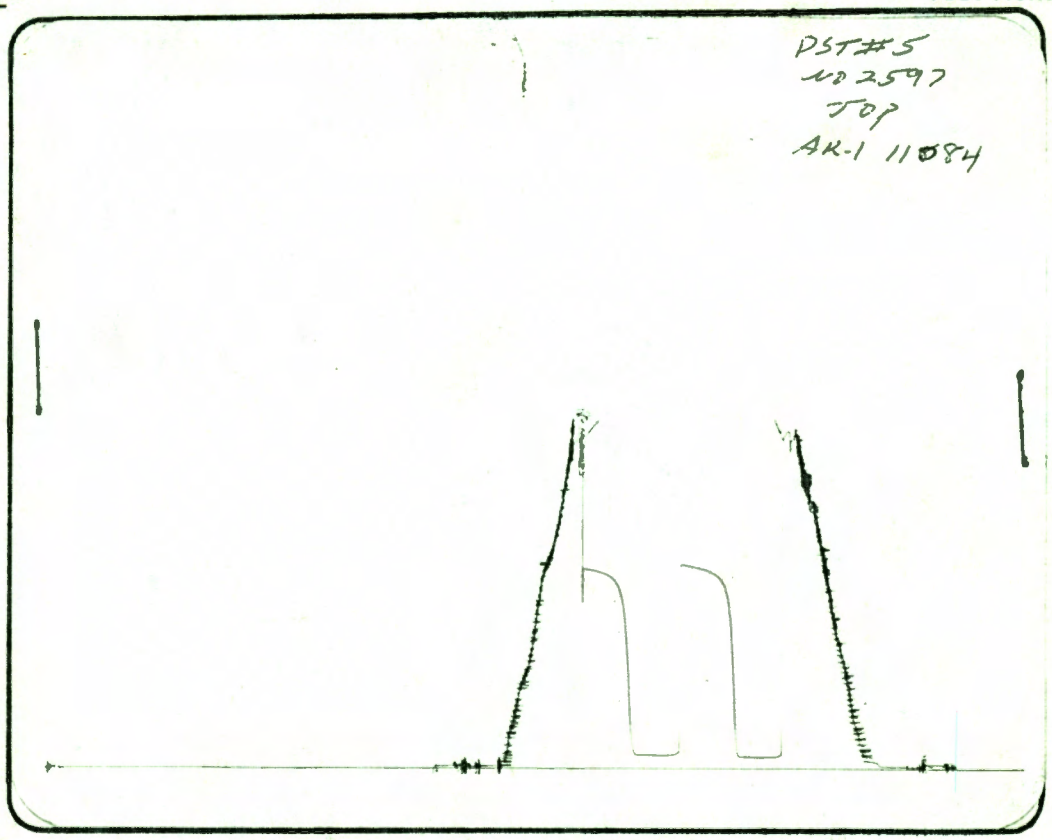
CRUDE OIL TESTING INC.

Date 12/12/82 Test Ticket No. 2597

DST # 5



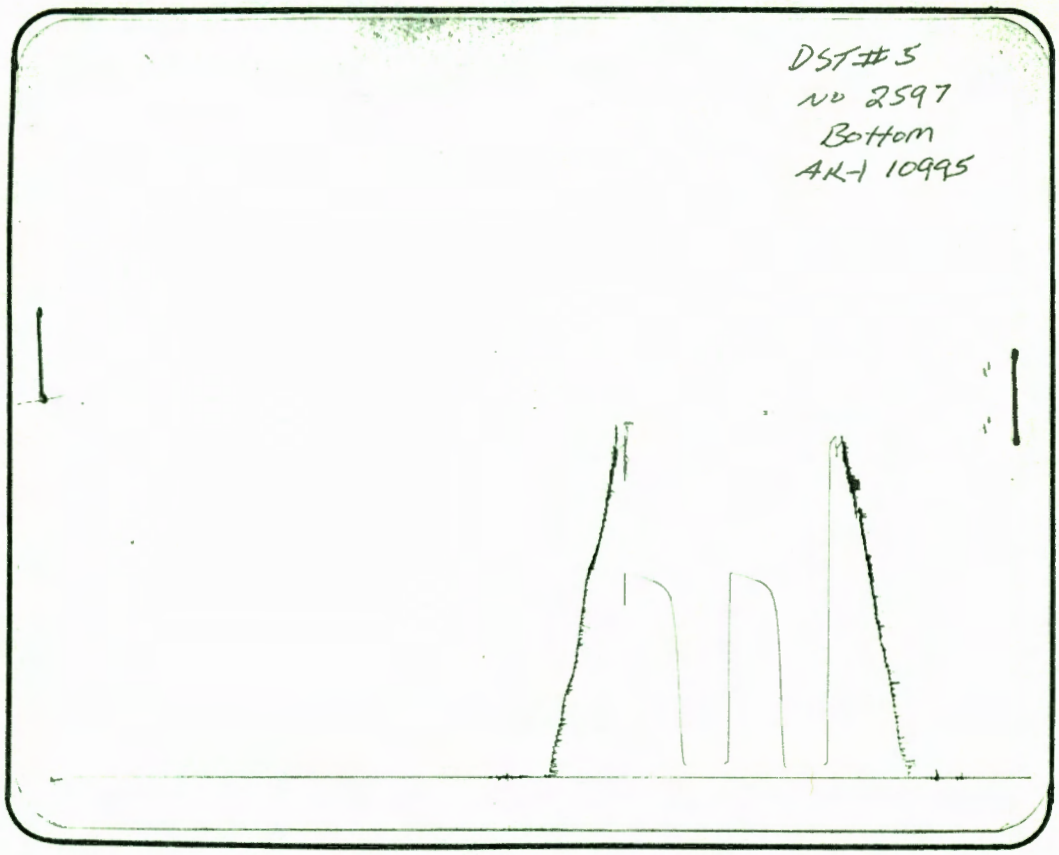
Formation Kansas City Zone 140', 160', 180' Type of Test Conventional
Interval 3,567 To 3,639 Total Depth 3,639
Open 30 Shut In 45 Open 30 Shut In 45
Packer(s) Set 9:13 PM. Started off Bottom 11:45 P.M.
Blow 1st Opening Weak blow increased slowly to 2⅓" in bucket
2nd Opening Weak steady blow, 2⅓" in bucket

Recovery
Total Feet 60'
Recovered 60' Ft. of watery mud
Recovered _____ Ft. of _____
Recovered _____ Ft. of 60% mud
Recovered _____ Ft. of 40% water

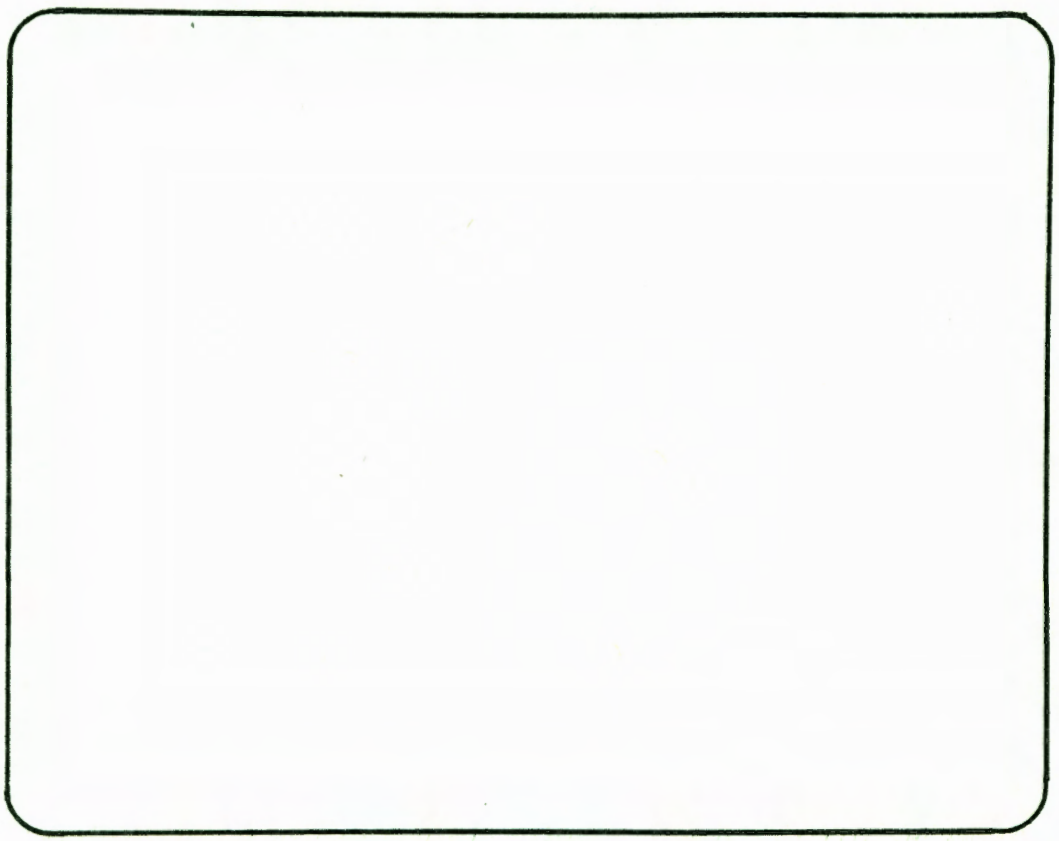
Calculated Recovery
Gas _____ Oil _____ WTR 24' MUD 36'
Gravity (Oil) _____ Corrected To Temp. _____ °F Test Water Chlorides 43,000 P.P.M.
Test Area Temperature 109 °F Mud System Chlorides 27,000 P.P.M.

PRESSURE	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1,853	1,864	PSI
(B) First Initial Flow Pressure	66	65	PSI
(C) First Final Flow Pressure	66	65	PSI
(D) Initial Closed-in Pressure	1,153	1,158	PSI
(E) Second Initial Flow Pressure	77	76	PSI
(F) Second Final Flow Pressure	77	76	PSI
(G) Final Closed-in Pressure	1,131	1,136	PSI
(H) Final Hydrostatic Mud	1,832	1,864	PSI

CRUDE OIL TESTING INC.



Extra recorder chart



Blank off recorder chart

These are actual photographs of recorder charts.

CRUDE OIL TESTING INC

(303) 473-6909
P.O. Box 2260
Colorado Springs, CO 80901

TEST REPORT

Test Ticket No. 2597

Company A. Scott Ritchie Date 12/12/82

Company Address 125 N. Market, Suite 950 Wichita,KS 67202 No. of Charts 5

Location: Sec. 17 Twp. 11S Rge. 22W Co. Trego State KS

Well Name And Number Carpenter B-#2 Tester Troy Leiker

Contractor Murfin Drlg. Rig No. 16 Co. Rep. Rocky Milford

Engineering Data

Elevation 2,193 K.B.

Mud Viscosity 43

Mud Weight 9.5

Water Loss 10.6

Type of Mud Starch

Anchor Length 72'

Hole Size 7 7/8

Casing Size 8 5/8

Surface Choke 3/4

Bottom Choke 3/4

Drill Pipe Length 2,920 I.D. 3.8 In.

Weight Pipe Length 467 I.D. 2.76 In.

Drill Collar Length ____ I.D. ____ In.

Top Packer Depth.

Bottom Packer Depth 3,567

Tool Joint Size 4½ F.H.

Test Tool Size 5 1/2

Packer Size 6 3/4

Reversed Out NO

Recorder Type and No. AK-1 11084 Clock Range No. 23830 12 Hr.

Recorder Type and No. AK-1 10995 Clock Range No. 22348 12 Hr.

Extra Equipment

Remarks Open Hole Test

CRUDE OIL TESTING

P.O. Box 2260
Colorado Springs, Colorado 80901
(303) 473-6909

Recorder Location 3,629 Ft. Recorder No. 11084 Test Ticket No. 2597

PRESSURE BREAKDOWN

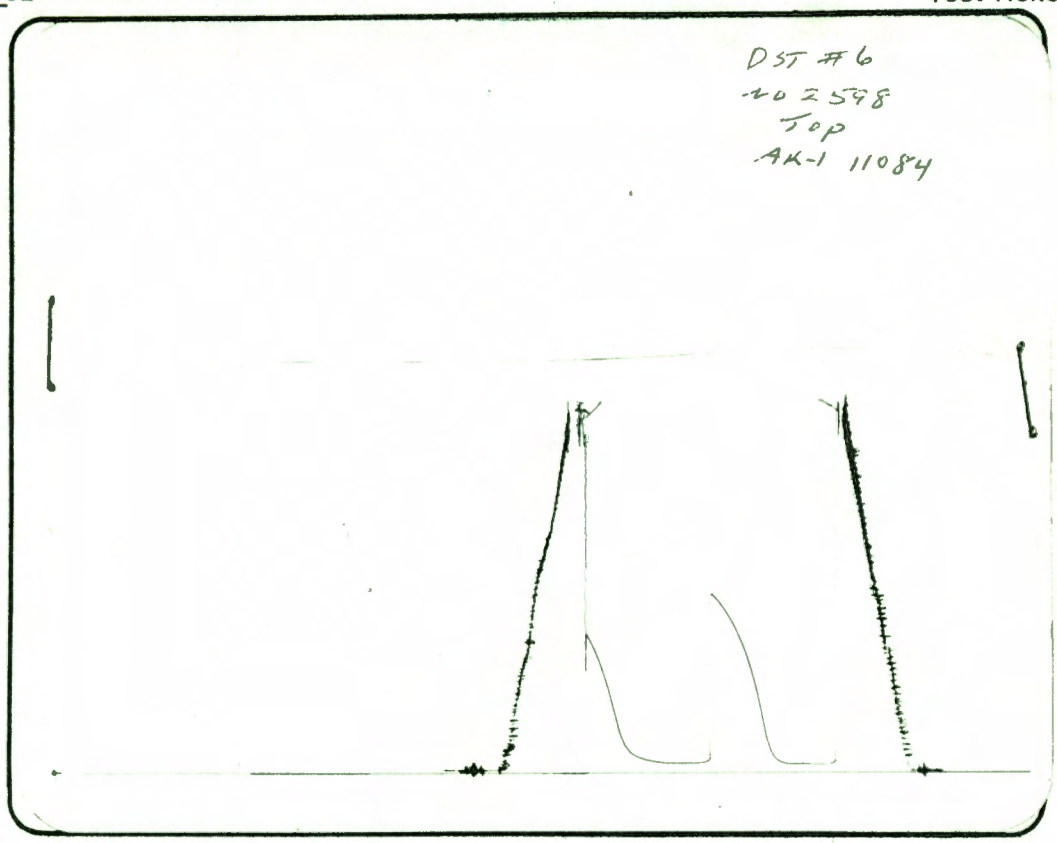
First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In
Breakdown: 6 Inc.	Breakdown: 9 Inc.	Breakdown: 6 Inc.	Breakdown: 8 Inc.
of 5 mins. and a	of 5 mins. and a	of 5 mins.and a	of 5 mins. and a
final inc. of ____ Min.	final inc. of ____ Min.	final inc. of ____ Min.	final inc. of ____ Min.

	Points		Points		Points		Points	
	Minutes	Press.	Minutes	Press.	Minutes	Press.	Minutes	Press.
P01	00	65	00	60	00	76	00	76
P02	05	65	05	300	05	76	05	137
P03	10	65	10	875	10	76	10	839
P04	15	65	15	980	15	76	15	1,039
P05	20	65	20	1,015	20	76	20	1,088
P06	25	65	25	1,035	25	76	25	1,109
P07	30	65	30	1,045	30	76	30	1,120
P08			35	1,055			35	1,131
P09			40	1,060			40	1,136
P10			45	1,065				
P11								
P12								
P13								
P14								
P15								
P16								
P17								
P18								
P19								
P20								
P21								
P22								
P23								
P24								
P25								
P26								
P27								
P28								
P29								
P30								

CRUDE OIL TESTING INC.

Date 12/14/82 Test Ticket No. 2598

DST # 6



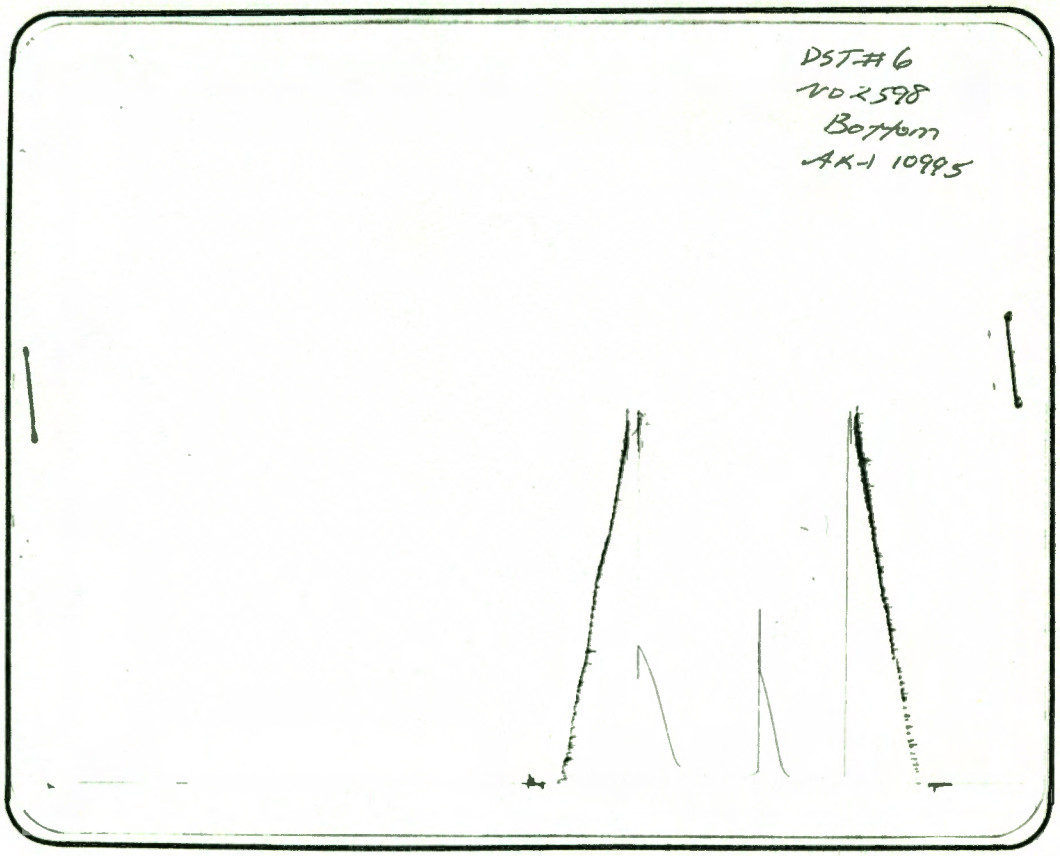
Formation Marmaton Zone _____ Type of Test Conventional
Interval 3,772 To 3,815 Total Depth 3,815
Open 30 Shut In 60 Open 30 Shut In 60
Packer(s) Set 12:43 P.M. Started off Bottom 3:45 A.M.
Blow 1st Opening Weak decreasing blow ½ in bucket
2nd Opening No blow

Recovery Total Feet 15'
Recovered 15 Ft. of rotary mud
Recovered _____ Ft. of (Spots of oil on top of tool and gas odor.)
Recovered _____ Ft. of _____
Recovered _____ Ft. of _____

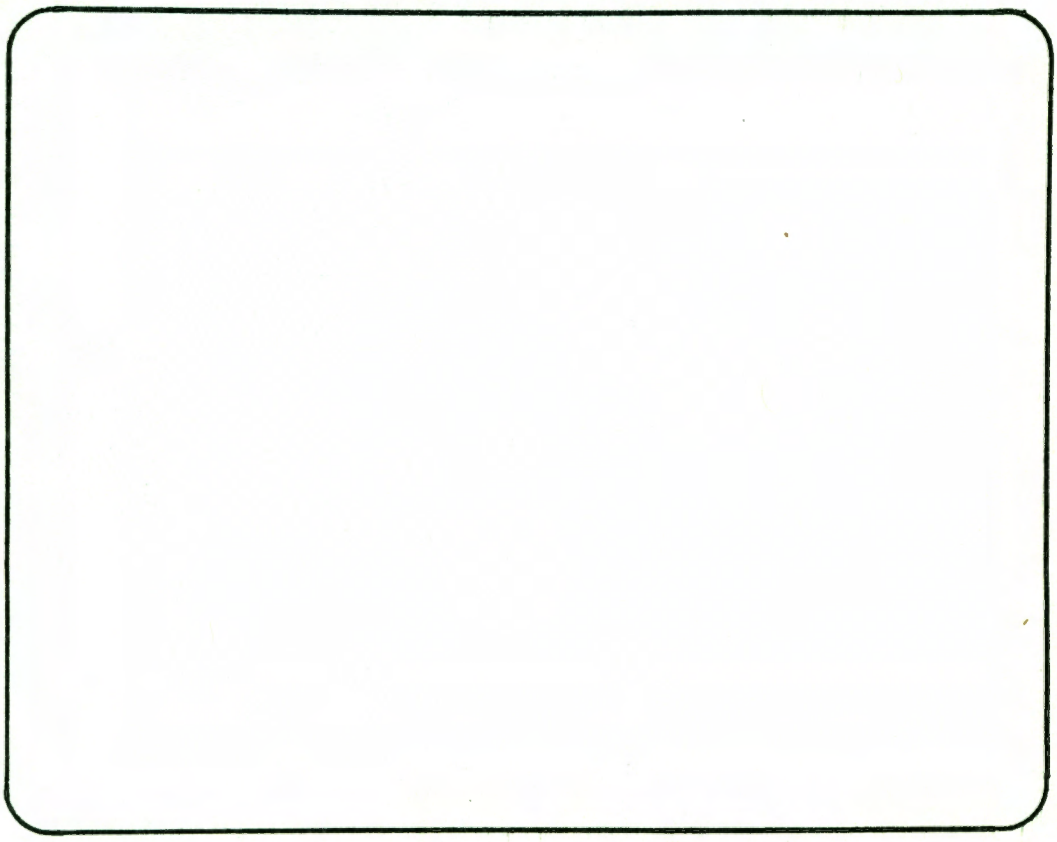
Calculated Recovery Gas _____ Oil spots of oil WTR 5.25 MUD 9.75
Gravity (Oil) _____ Corrected To Temp. _____ °F Test Water Chlorides 32,000 P.P.M.
Test Area Temperature 110 °F Mud System Chlorides 24,000 P.P.M.

PRESSURE		Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	1,983	2,025	PSI
(B)	First Initial Flow Pressure	55	49	PSI
(C)	First Final Flow Pressure	55	49	PSI
(D)	Initial Closed-in Pressure	1,094	1,002	PSI
(E)	Second Initial Flow Pressure	55	54	PSI
(F)	Second Final Flow Pressure	55	54	PSI
(G)	Final Closed-in Pressure	775	774	PSI
(H)	Final Hydrostatic Mud	1,961	1,982	PSI

CRUDE OIL TESTING INC.



Extra recorder chart



Blank off recorder chart

These are actual photographs of recorder charts.

TEST REPORT

(303) 473-6909
P.O. Box 2260
Colorado Springs, CO 80901

Test Ticket No. 2598

Company A. Scott Ritchie Date 12/14/82

Company Address 125 N. Market, Suite 950 Wichita,KS 67202 No. of Charts 5

Location: Sec. 17 Twp. 11S Rge. 22W Co. Trego State KS

Well Name And Number Carpenter B-#2 Tester Troy Leiker

Contractor Murfin Drlg. Rig No. 16 Co. Rep. Rocky Milford

Engineering Data

Elevation 2,193 K.B.

Mud Viscosity 41

Mud Weight 9.6

Water Loss 11.4

Type of Mud Starch

Anchor Length 43'

Hole Size 7 7/8

Casing Size 8 5/8

Surface Choke 3/4

Bottom Choke 3/4

Drill Pipe Length 3,075 I.D. 3.8 In.

Weight Pipe Length 467 I.D. 2.76 In.

Drill Collar Length I.D. In.

Top Packer Depth.

Bottom Packer Depth 3,772

Tool Joint Size 4½ FH

Test Tool Size 5 1/2

Packer Size 6 3/4

Reversed Out NO

Recorder Type and No. AK-1 11084 Clock Range No. 23830 12 Hr.

Recorder Type and No. AK-1 10995 Clock Range No. 22348 12 Hr.

Extra Equipment

Remarks Open Hole Test.

CRUDE OIL TESTING

P.O. Box 2260
Colorado Springs, Colorado 80901
(303) 473-6909

Recorder Location 3,805 Ft. Recorder No. 11084 Test Ticket No. 2598

PRESSURE BREAKDOWN

First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In
Breakdown: 7 Inc.	Breakdown: 12 Inc.	Breakdown: 7 Inc.	Breakdown: 11 Inc.
of 5 mins. and a	of 5 mins. and a	of 5 mins.and a	of 5 mins. and a
final inc. of ____ Min.	final inc. of ____ Min.	final inc. of ____ Min.	final inc. of 3 Min.

	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Points Minutes	Press.	Points Minutes	Press.	Points Minutes	Press.	Points Minutes	Press.
P01	00	49	00	49	00	54	00	54
P02	05	49	05	60	05	54	05	60
P03	10	49	10	87	10	54	10	65
P04	15	49	15	175	15	54	15	76
P05	20	49	20	334	20	54	20	93
P06	25	49	25	482	25	54	25	126
P07	30	49	30	596	30	54	30	191
P08	35	49	35	699	35	54	35	328
P09			40	791			40	460
P10			45	861			45	574
P11			50	921			50	666
P12			55	969			55	747
P13			60	1,002			60	774
P14								
P15								
P16								
P17								
P18								
P19								
P20								
P21								
P22								
P23								
P24								
P25								
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P27								
P28								
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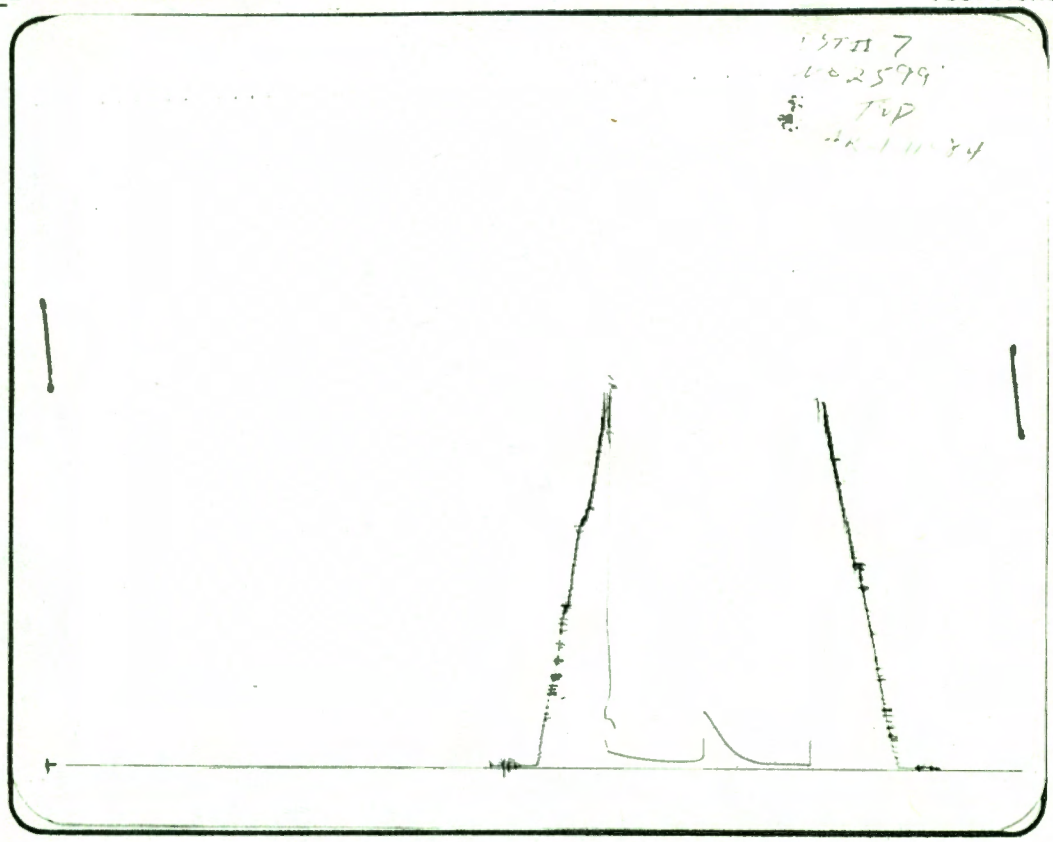
P30								

CRUDE OIL TESTING INC.

Date 12/14/82 Test Ticket No. 2599

DST # 7



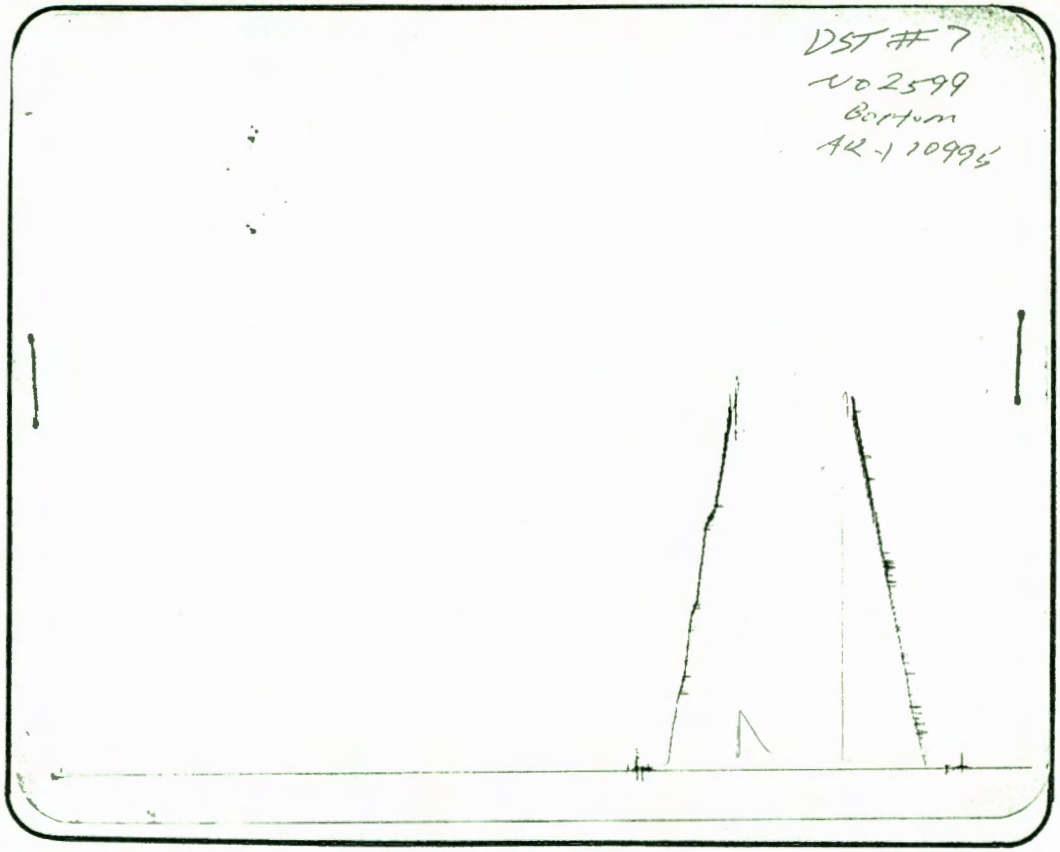
Formation Arbuckle Zone _____ Type of Test Conventional
Interval 3,840 To 3,852 Total Depth 3,852
Open 30 Shut In 45 Open 30 Shut In 45
Packer(s) Set 1:13 P.M. Started off Bottom 3:45 P.M.
Blow 1st Opening Weak increasing blow to 1", then decreased to 3/4".
2nd Opening Weak decreasing blow, died in 25 minutes.

Recovery Total Feet 85
Recovered 5 Ft. of clean gassy oil
Recovered 20 Ft. of oil spotted mud
Recovered 60 Ft. of gas in pipe
Recovered _____ Ft. of _____

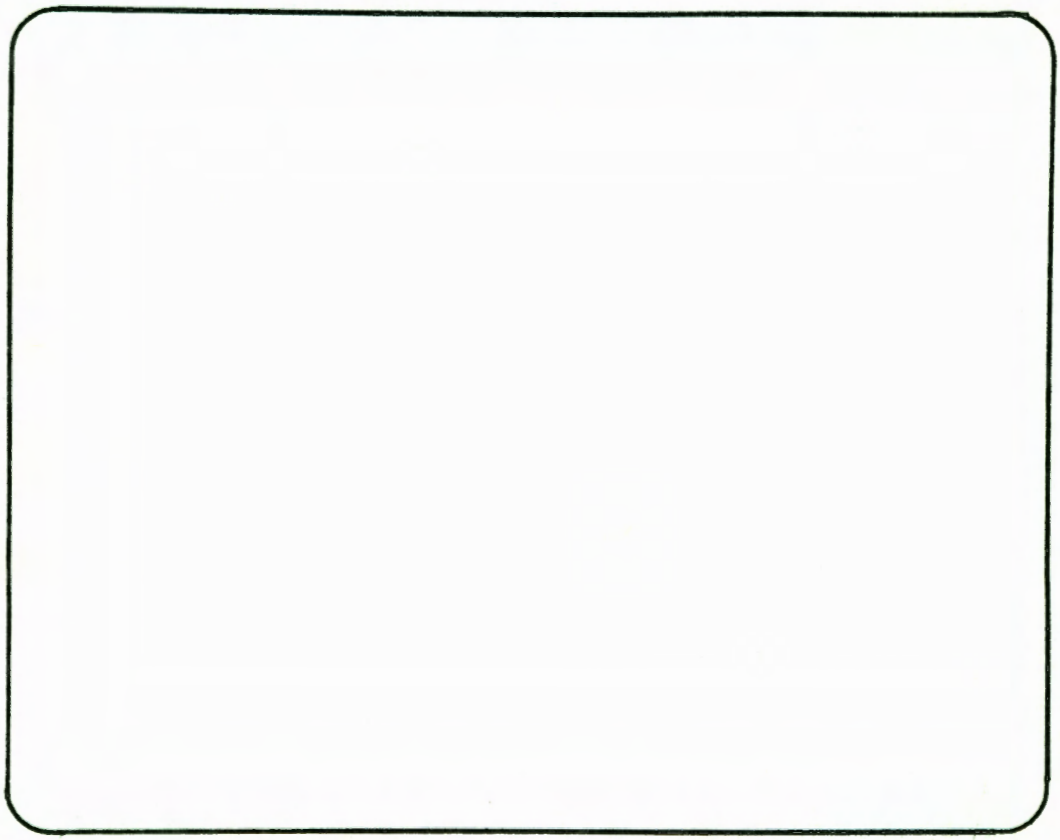
Calculated Recovery Gas _____ Oil 6.65 WTR 4.1 MUD 14.25
Gravity (Oil) _____ Corrected To Temp. _____ °F Test Water Chlorides Filtrat P.P.M.
Test Area Temperature 115 °F Mud System Chlorides 26,000 P.P.M.

PRESSURE		Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	1,994		PSI
(B)	First Initial Flow Pressure	22		PSI
(C)	First Final Flow Pressure	22		PSI
(D)	Initial Closed-in Pressure	329		PSI
(E)	Second Initial Flow Pressure	33		PSI
(F)	Second Final Flow Pressure	33		PSI
(G)	Final Closed-in Pressure	88		PSI
(H)	Final Hydrostatic Mud	1,972		PSI

CRUDE OIL TESTING INC.



Extra recorder chart



Blank off recorder chart

These are actual photographs of recorder charts.

TEST REPORT

(303) 473-6909
P.O. Box 2260
Colorado Springs, CO 80901

Test Ticket No. 2599

Company A.Scott Ritchie Date 12/14/82

Company Address 125 N. Market, Suite 950 Wichita,KS 67202 No. of Charts 5

Location: Sec. 17 Twp. 11S Rge. 22W Co. Trego State KS

Well Name And Number Carpenter B-#2 Tester Troy Leiker

Contractor Murfin Drlg. Rig No. 16 Co. Rep. Rocky Milford

Engineering Data

Elevation 2,193 K.B.

Mud Viscosity 45'

Mud Weight 9.8

Water Loss 9.4

Type of Mud Starch

Anchor Length 12'

Hole Size 7 7/8

Casing Size 8 5/8

Surface Choke 3/4

Bottom Choke 3/4

Drill Pipe Length 3,136 I.D. 3.8 In.

Weight Pipe Length 467 I.D. 2.76 In.

Drill Collar Length _____ I.D. _____ In.

Top Packer Depth. _____

Bottom Packer Depth 3,840

Tool Joint Size 4½ FH

Test Tool Size 5 1/2

Packer Size 6 3/4

Reversed Out NO

Recorder Type and No. AK-1 11084 Clock Range No. 23830 12 Hr.

Recorder Type and No. AK-1 10995 Clock Range No. 22348 12 Hr.

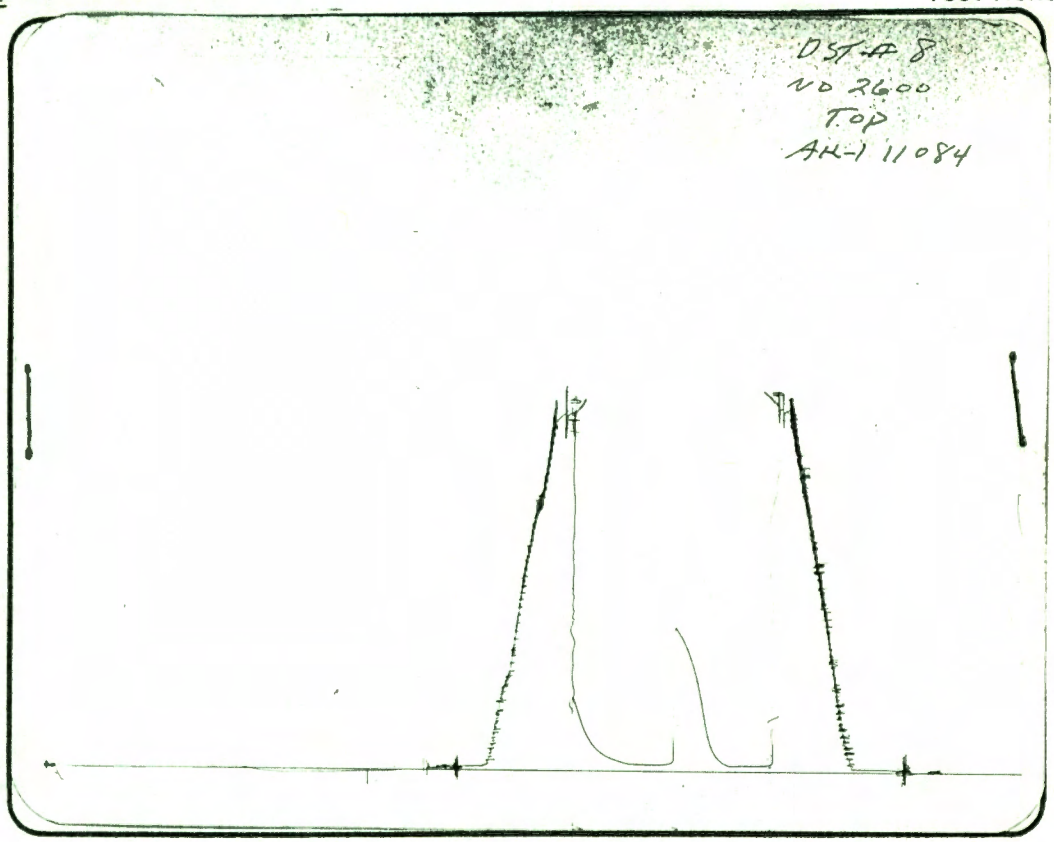
Extra Equipment Single Conventional Packer

Remarks Open Hole Test

CRUDE OIL TESTING INC.

Date 12/15/82 Test Ticket No. 2600

DST # 8



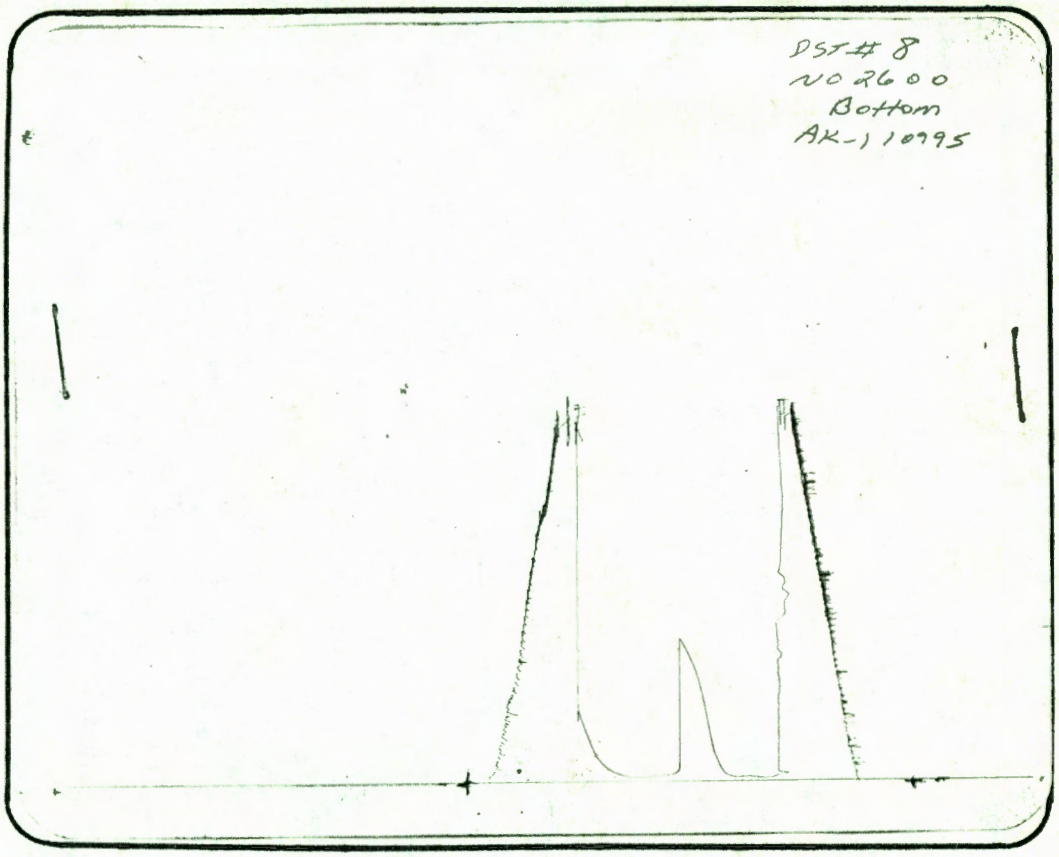
Formation Arbuckle Zone _____ Type of Test Conventional
Interval 3,852 To 3,863 Total Depth 3,863
Open 30 Shut In 45 Open 30 Shut In 45
Packer(s) Set 2:28 AM. Started off Bottom 5:00 AM.
Blow 1st Opening Weak steady blow ½" in bucket
2nd Opening Weak steady blow on top of bucket

Recovery
Total Feet 20'
Recovered 5' Ft. of clean gassy oil
Recovered 15' Ft. of oil spotted mud
Recovered _____ Ft. of _____
Recovered _____ Ft. of _____

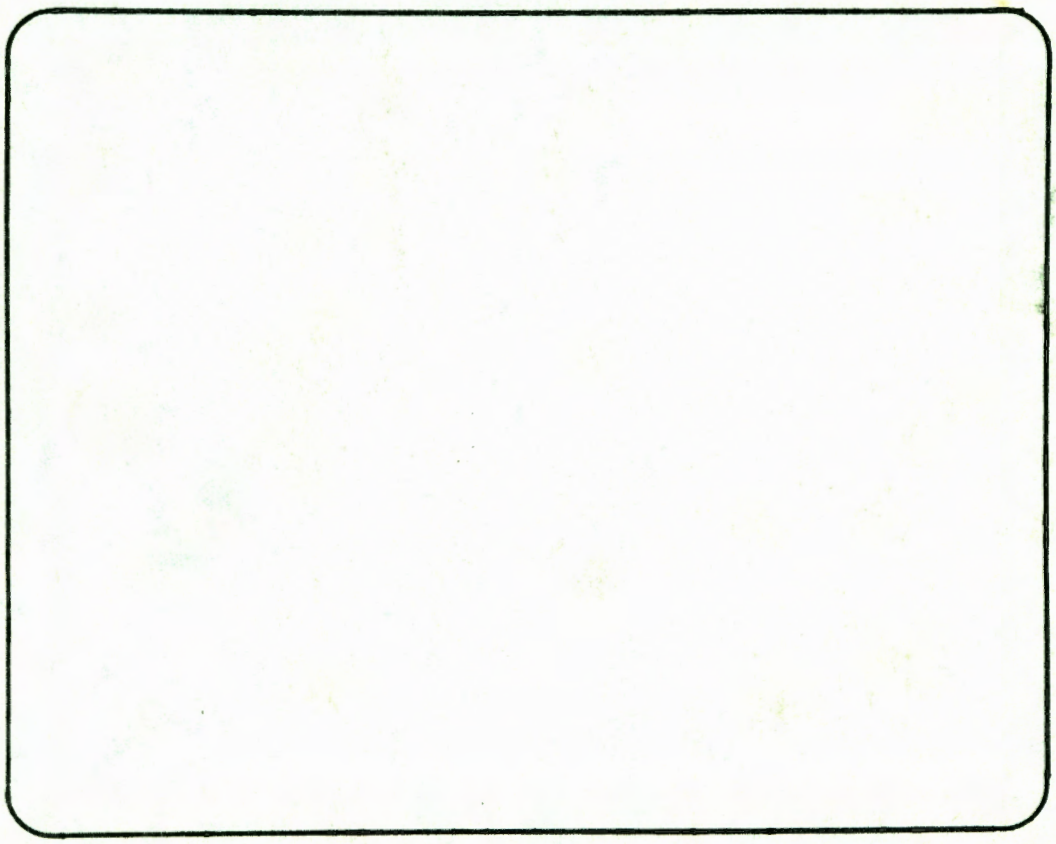
Calculated Recovery
Gas 1 Oil 5.5 WTR 5.25 MUD 8.25
Gravity (Oil) _____ Corrected To Temp. _____ °F Test Water Chlorides 35,000 P.P.M.
Test Area Temperature 113 °F Mud System Chlorides 26,000 P.P.M.

PRESSURE		Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2,004	2,047	PSI
(B)	First Initial Flow Pressure	33	32	PSI
(C)	First Final Flow Pressure	33	32	PSI
(D)	Initial Closed-in Pressure	807	774	PSI
(E)	Second Initial Flow Pressure	33	38	PSI
(F)	Second Final Flow Pressure	33	38	PSI
(G)	Final Closed-in Pressure	406	416	PSI
(H)	Final Hydrostatic Mud	1,983	1,977	PSI

CRUDE OIL TESTING INC.



Extra recorder chart



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These are actual photographs of recorder charts.

TEST REPORT

(303) 473-6909
P.O. Box 2260
Colorado Springs, CO 80901

Test Ticket No. 2600

Company A. Scott Ritchie Date 12/15/82
Company Address 125 N. Market, Suite 950 No. of Charts 5
Location: Sec. 17 Twp. 11S Rge. 22W Co. Trego State KS
Well Name And Number Carpenter B-#2 Tester Troy Leiker
Contractor Murfin Drlg. Rig No. 16 Co. Rep. Rocky Milford

Engineering Data

Elevation 2,193 K.B.

Mud Viscosity 45

Mud Weight 9.8

Water Loss 9.4

Type of Mud Starch

Anchor Length 11'

Hole Size 7 7/8

Casing Size 8 5/8

Surface Choke 3/4

Bottom Choke 3/4

Drill Pipe Length 3,136 I.D. 3.8 In.

Weight Pipe Length 476 I.D. 2.76 In.

Drill Collar Length ____ I.D. ____ In.

Top Packer Depth.

Bottom Packer Depth 3,852

Tool Joint Size 4½ FH

Test Tool Size 5 1/2

Packer Size 6 3/4

Reversed Out NO

Recorder Type and No. AK-1 11084 Clock Range No. 22337 12 Hr.

Recorder Type and No. AK-1 10995 Clock Range No. 23839 12 Hr.

Extra Equipment

Remarks Open Hole Test

CRUDE OIL TESTING

P.O. Box 2260
Colorado Springs, Colorado 80901
(303) 473-6909

Recorder Location 3,853 Ft. Recorder No. 11084 Test Ticket No. 2600

PRESSURE BREAKDOWN

First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In
Breakdown: 6 Inc.	Breakdown: 9 Inc.	Breakdown: 7 Inc.	Breakdown: 8 Inc.
of 5 mins. and a	of 5 mins. and a	of 5 mins.and a	of 5 mins. and a
final inc. of ____ Min.	final inc. of ____ Min.	final inc. of ____ Min.	final inc. of ____ Min.

	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Points Minutes	Press.	Points Minutes	Press.	Points Minutes	Press.	Points Minutes	Press.
P01	00	32	00	32	00	38	00	38
P02	05	32	05	38	05	38	05	49
P03	10	32	10	65	10	38	10	65
P04	15	32	15	126	15	38	15	82
P05	20	32	20	257	20	38	20	104
P06	25	32	25	444	25	38	25	148
P07	30	32	30	596	30	38	30	208
P08			35	699	35	38	35	312
P09			40	774			40	416
P10			45	774				
P11								
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