DRILL-STEM TEST DATA

Well Name:	DINKEL #11				
Company :	RANEY OIL CO				
Location - Sec:	3	**Twp:**	14S	**Rge:**	20W
County:	ELLIS	**State:**	KS		
Date:	07/25/95				

TRILOBITE TESTING L.L.C.

OPERATOR : Raney Oil Co DATE 07/24/95
WELL NAME: Dinkel #11 KB 2241.00 ft TICKET NO: 7944 DST #1
LOCATION : 3-14S-20W, Ellis Cty KS GR 0.00 ft FORMATION: Marmaton
INTERVAL : 3788.00 To 3820.00 ft TD 3820.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins			Field	1	2	3	4
PF	30	Rec.	AK-1	AK-1	AK-1		
SI	45	Range(Psi)	4000.0	4000.0	4375.0	0.0	0.0
SF	45	Clock(hrs)	23858	23858	25108		
FS	45	Depth(ft)	3792.0	3792.0	3816.0	0.0	0.0

TIME DATA----------
PF Fr. 30 to hr
IS Fr. 45 to hr
SF Fr. 45 to hr
FS Fr. 45 to hr

	Field	1	2	3	4
A. Init Hydro	1836.0	1841.0	0.0	0.0	0.0
B. First Flow	118.0	116.0	0.0	0.0	0.0
B1. Final Flow	177.0	170.0	0.0	0.0	0.0
C. In Shut-in	729.0	733.0	0.0	0.0	0.0
D. Init Flow	246.0	231.0	0.0	0.0	0.0
E. Final Flow	324.0	318.0	0.0	0.0	0.0
F. Fl Shut-in	719.0	710.0	0.0	0.0	0.0
G. Final Hydro	1766.0	1750.0	0.0	0.0	0.0
Inside/Outside	I	I	O		

T STARTED hr
T ON BOTM hr
T OPEN 0445 hr
T PULLED 0730 hr
T OUT hr

TOOL DATA----------

Tool Wt.	0.00 lbs
Wt Set On Packer	0.00 lbs
Wt Pulled Loose	0.00 lbs
Initial Str Wt	0.00 lbs
Unseated Str Wt	0.00 lbs
Bot Choke	0.75 in
Hole Size	7.88 in
D Col. ID	0.00 in
D. Pipe ID	3.80 in
D.C. Length	0.00 ft
D.P. Length	0.00 ft

RECOVERY
Tot Fluid 625.00 ft of 0.00 ft in DC and 625.00 ft in DP
179.00 ft of Gas in Pipe
5.00 ft of Clean Oil - 100% oil
310.00 ft of Oil Cut Gassy Watery Mud - 20% gas, 40% oil,
0.00 ft of 20% water, 20% mud
248.00 ft of Oil & Gas Cut Muddy Water - 10% gas, 20% oil,
0.00 ft of 60% water, 10% mud
62.00 ft of Water - 100% water
RW .26 @ 80 F
SALINITY 23000.00 P.P.M. A.P.I. Gravity 34.00

MUD DATA----------

Mud Type	Chemical
Weight	8.80 lb/c
Vis.	49.00 S/L
W.L.	8.80 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	121.00 F
Hole Condition	
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	Dan Bangle
Co. Rep.	Roger Welty
Contr.	Duke
Rig #	1
Unit #	
Pump T.	

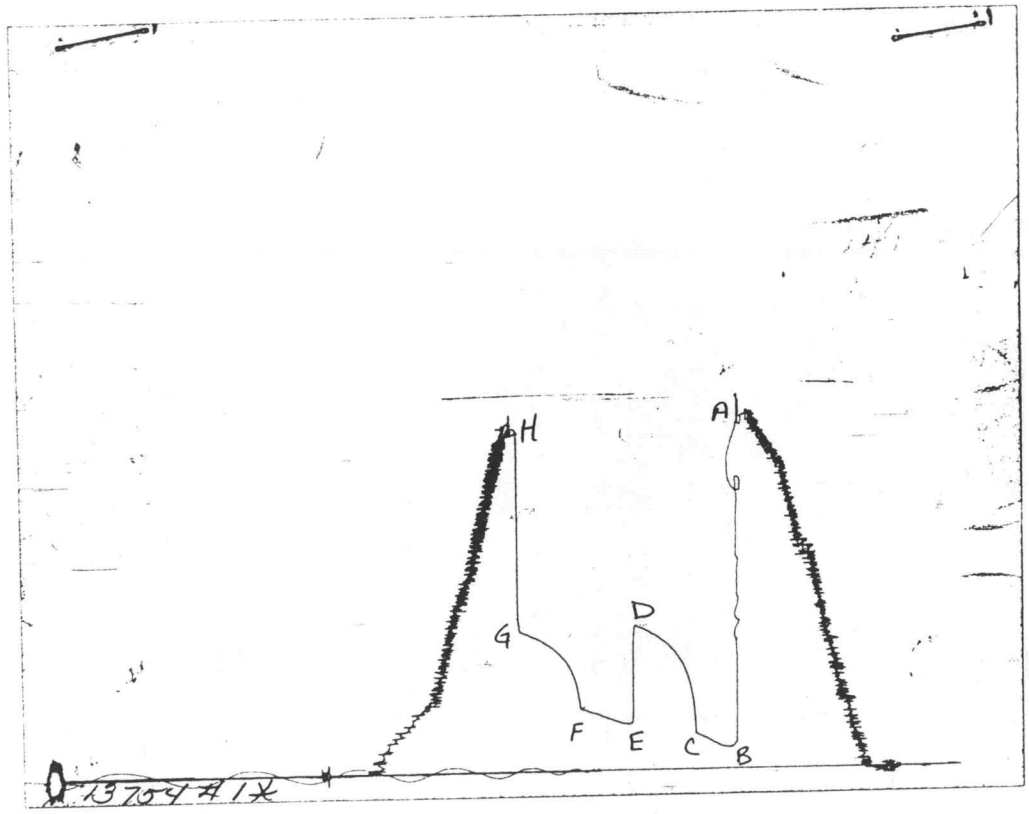
BLOW DESCRIPTION
Initial Blow -
Strong, bottom of bucket in 2 min

Final Blow -
Strong, bottom of bucket in 6 min

SAMPLES:
SENT TO:

Test Successful: Y

CHART PAGE



This is an actual photograph of recorder chart

COMPUTER OIL EVALUATION BY TRILOBITE TESTING, L.L.C.

RANEY OIL CO

DINKEL #11 DST 1

3 14S 20W ELLIS KS

ELEVATION:	2241	KB	EST. PAY	9	FT
DATUM:	-1552		ZONE TESTED:	MARMATON	
TEST INTERVAL:	3788-3820		TIME INTERVALS:	30-45-45-45	
RECORDER DEPTH:	3792		VISCOSITY:	7.68	CP
BOTTOM HOLE TEMP:	121		HOLE SIZE:	7.875	IN

CUBIC FEET OF GAS IN PIPE:	14			
TOTAL FEET OF RECOVERY:	625.00	CORRECTED PIPE FILLUP:	875.676	
TOTAL BARRELS OF RECOVERY:	8.89	CORR. BARRELS OF RECOVERY:	12.452	BBL
BARRELS IN DRILL PIPE:	8.89	API GRAVITY:	34	
BARRELS IN WEIGHT PIPE:	0.00	FLUID GRADIENT:	0.370	
BARRELS IN DRILL COLLARS:	0.00			
GAS OIL RATIO:	1.61	CU.FT/BBL		
BUBBLE POINT PRESSURE:	20			
UNCORRECTED INITIAL PRODUCTION:			170.64	BBL
INITIAL PRODUCTION CORRECTED TO FINAL FLOW PRESSURE:			239.08	BBL/DAY
INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE:			150.990	

INITIAL SLOPE	730.30	PSI/CYCLE	FINAL SLOPE	416.20 PSI/CYCLE
INITIAL P*	887.18	PSI	FINAL P*	879.57 PSI

TRANSMISSIBILITY	93.40	(MD.-FT./CP.)
PERMEABILITY	79.71	(MD.)
INDICATED FLOW CAPACITY	717.43	(MD.FT)
PRODUCTIVITY INDEX	0.11	(BBL/DAY/PSI)
DAMAGE RATIO	0.24	
RADIUS OF INVESTIGATION	77.32	(FT,)
POTENTIOMETRIC SURFACE	488.72	(FT.)
DRAWDOWN FACTOR	0.858	(%)

CALCULATED RECOVERY ANALYSI DRILL PIPE

DST # 1 TICKET # 7944

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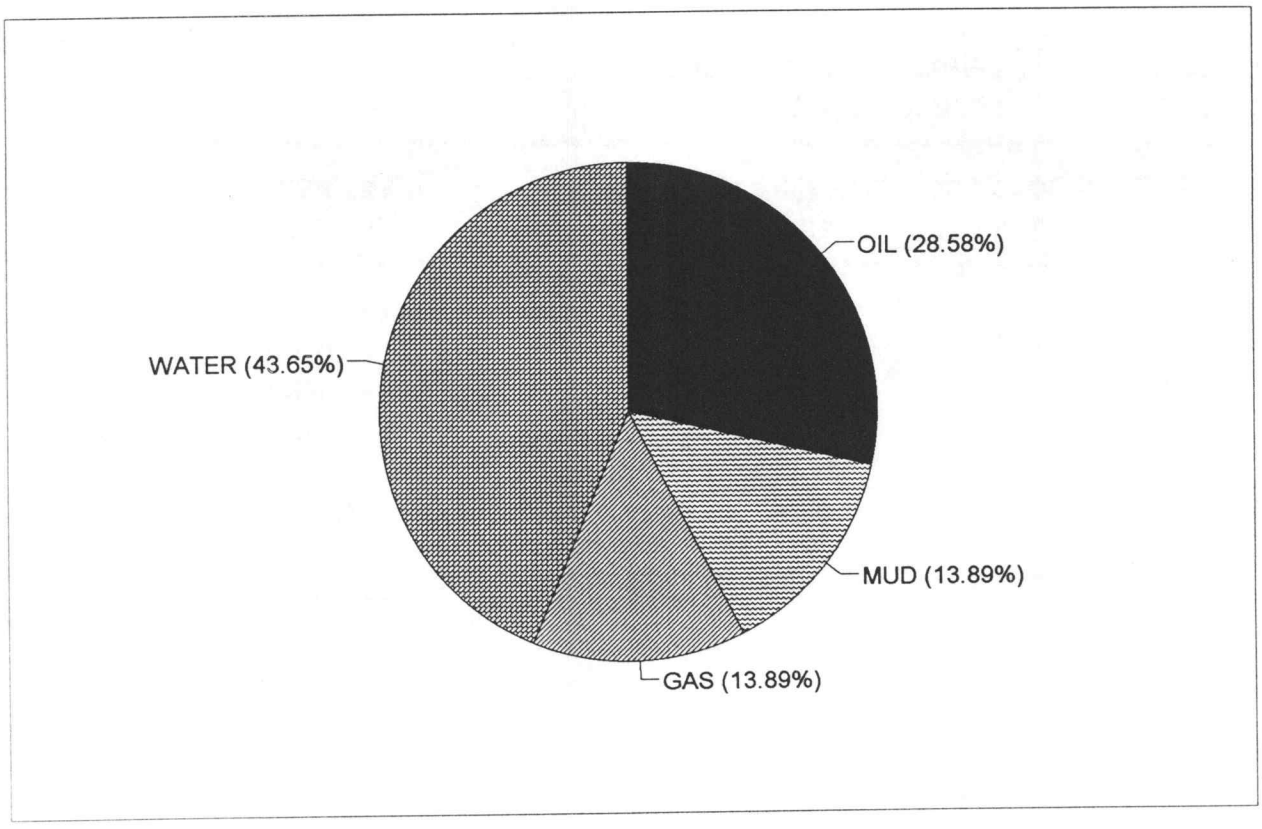
SAMPLE #	TOTAL FEET	GAS %	GAS FEET	OIL %	OIL FEET	WATER %	WATER FEET	MUD %	MUD FEET
1	5		0	100	5		0		0
2	310	20	62	40	124	20	62	20	62
3	248	10	24.8	20	49.6	60	148.8	10	24.8
4	62		0		0	100	62		0
5			0		0		0		0
6			0		0		0		0
TOTAL	625	13.89	86.8	28.58	178.6	43.648	272.8	13.89	86.8

			HRS OPEN	BBL/DAY
BBL OIL=	2.539692	*	1.25	48.76
BBL WATER=	3.879216	*		74.48
BBL MUD=	1.234296			
BBL GAS	1.234296			



INITIAL FLOW

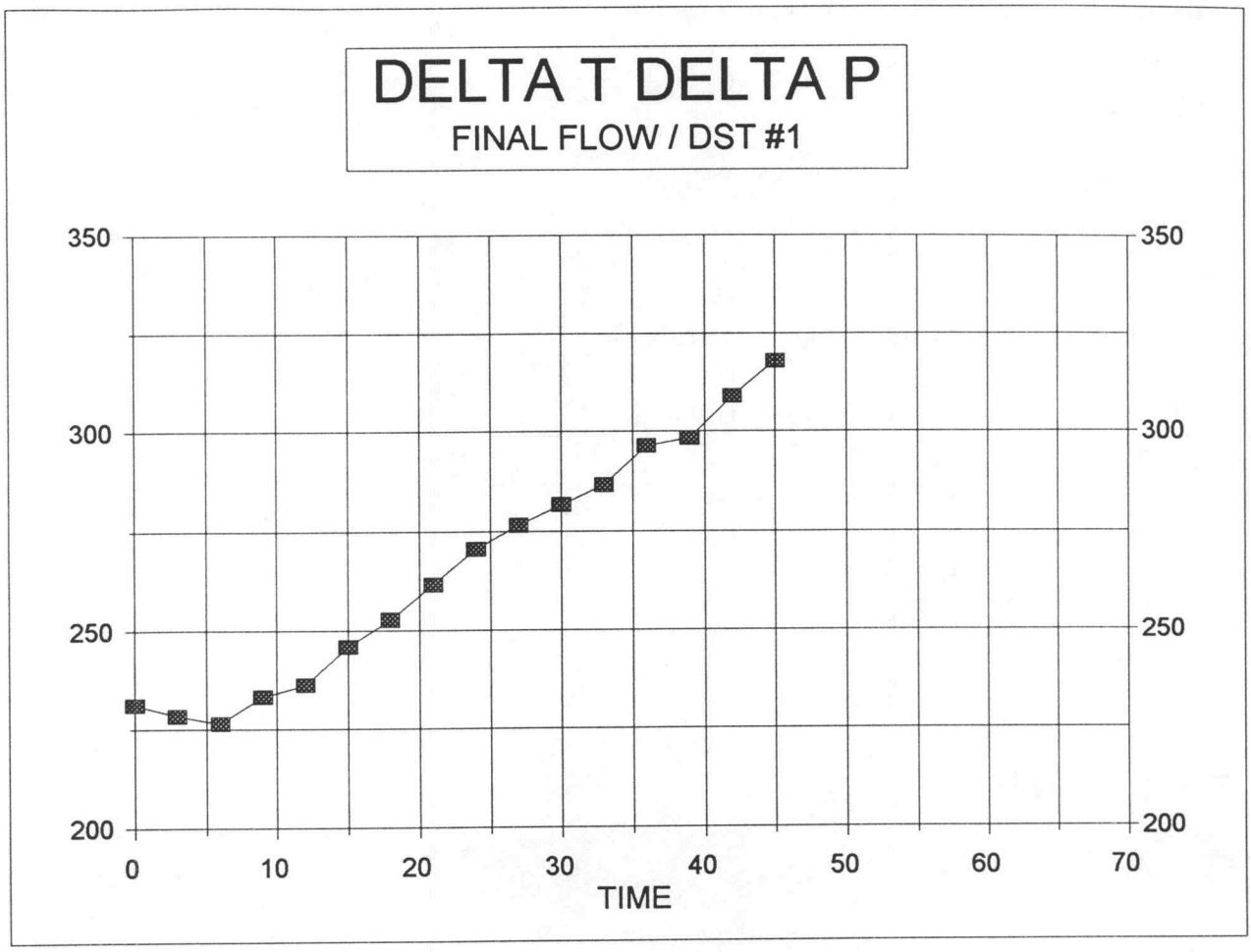
DST # 1
RECORDER 13754

TIME(MIN)	PRESSURE	<> PRESSURE
0	116.1	116.1
3	109.3	-6.9
6	110.2	1.0
9	110.2	0.0
12	117.1	6.9
15	122.1	4.9
18	135.8	13.8
21	142.7	6.9
24	156.5	13.8
27	166.3	9.8
30	170.3	3.9

FINAL FLOW

DST # 1
RECORDER 13754

TIME(MIN)	PRESSURE	<> PRESSURE
0	231.3	231.3
3	228.3	-3.0
6	226.4	-2.0
9	233.3	6.9
12	236.2	3.0
15	246.1	9.8
18	253.0	6.9
21	261.8	8.9
24	270.7	8.9
27	276.6	5.9
30	281.5	4.9
33	286.4	4.9
36	296.3	9.8
39	298.2	2.0
42	309.1	10.8
45	317.9	8.8



INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE: 150.9898

INITIAL SHUT-IN

DINKEL #11

DST # 1 SLOPE 730.3 PSI/CYCLE

INITIAL FLOW TIME 30 P* 887.18 PSI

	TIME(MIN)	Pws (psi)	Log Horn T	<> PRESSURE	Horn T
	3	250.0	1.041	250.0	11
	6	406.5	0.778	156.5	6
	9	475.4	0.637	68.9	4
	12	526.7	0.544	51.3	4
	15	559.3	0.477	32.6	3
	18	592.9	0.426	33.6	3
	21	615.6	0.385	22.7	2
	24	636.4	0.352	20.7	2
Q	27	650.2	0.325	13.8	2
	30	669.0	0.301	18.8	2
	33	679.8	0.281	10.9	2
	36	695.6	0.263	15.8	2
	39	699.6	0.248	4.0	2
	42	711.5	0.234	11.9	2
	45	726.3	0.222	14.8	2
X	48	733.2	0.211	6.9	2

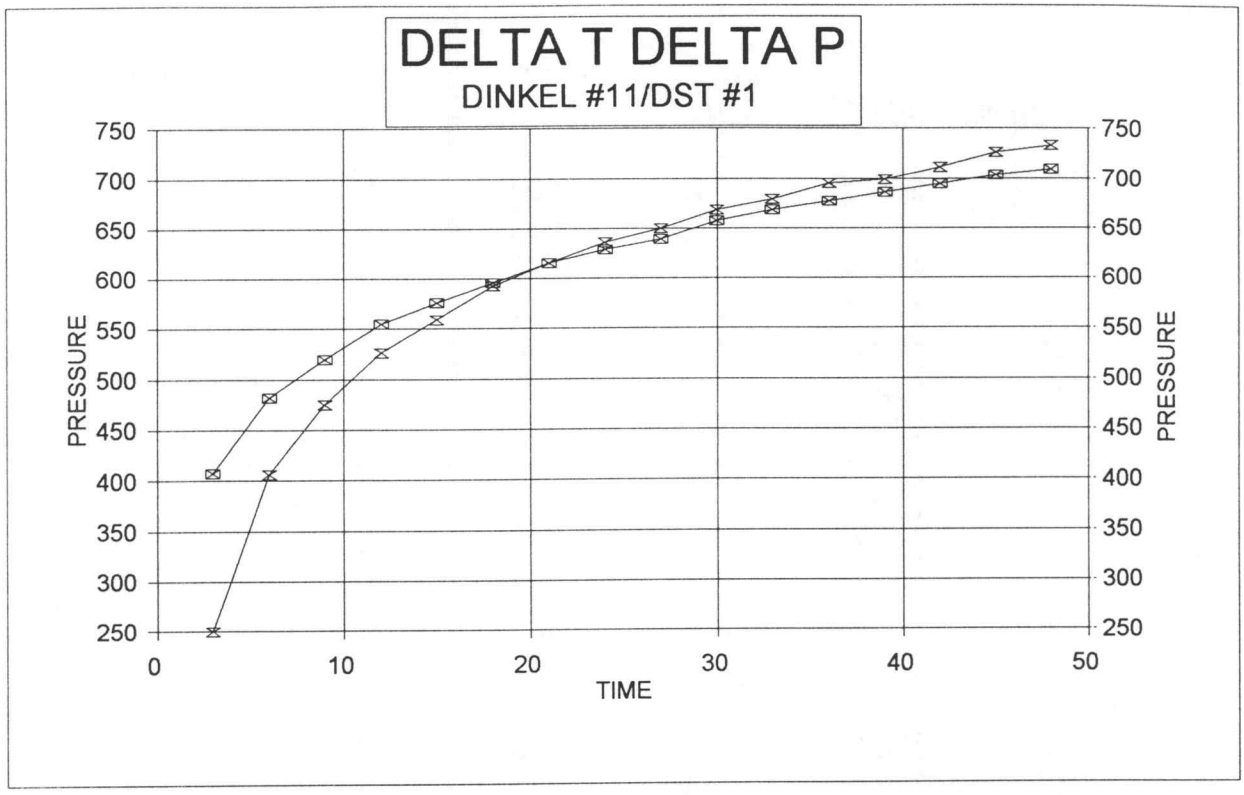
FINAL SHUT-IN

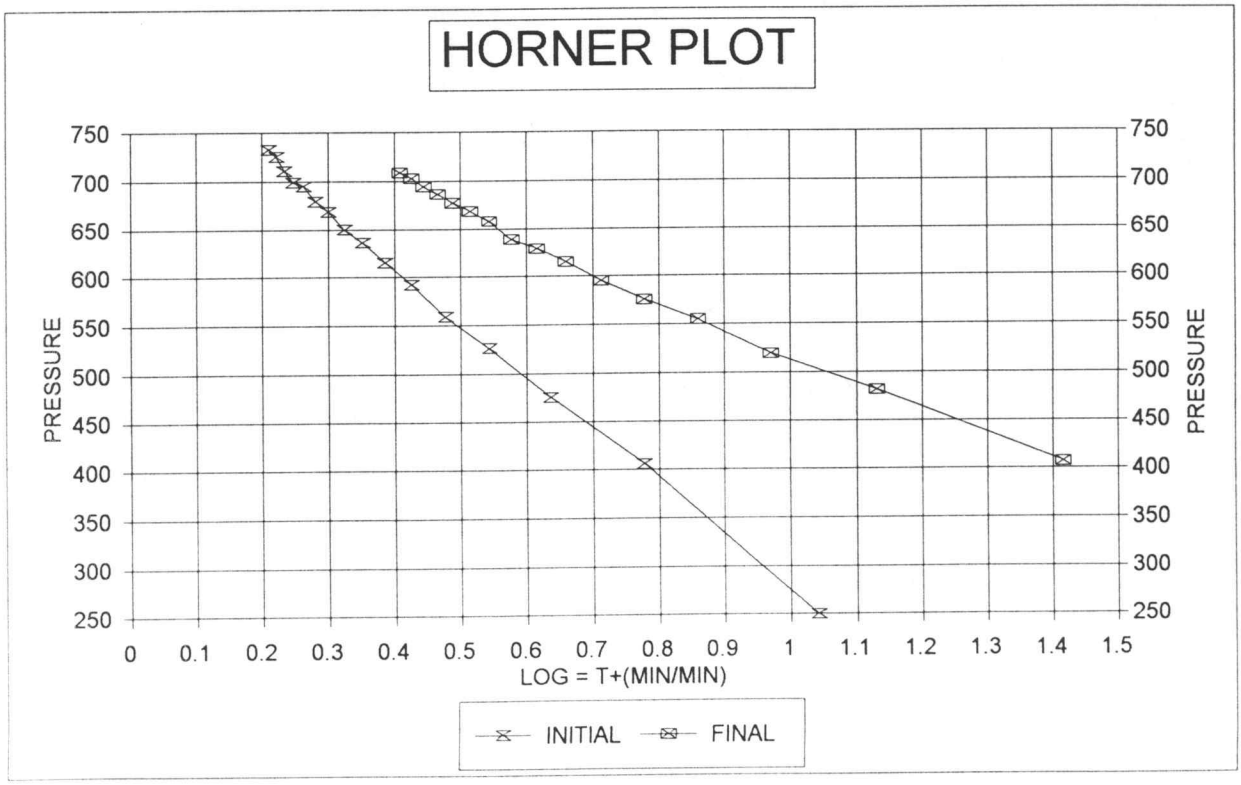
DINKEL #11

DST # 1 SLOPE 416.2 PSI/CYCLE

TOTAL FLOW TIME 75 P* 879.57 PSI

	TIME(MIN)	Pws (psi)	Log Horn T	<> PRESSURE	Horn T
	3	407.5	1.415	407.5	26
	6	482.3	1.130	74.8	14
	9	519.8	0.970	37.5	9
	12	555.3	0.860	35.6	7
	15	576.1	0.778	20.7	6
	18	595.8	0.713	19.8	5
	21	615.6	0.660	19.8	5
	24	629.4	0.615	13.8	4
Q	27	639.3	0.577	9.9	4
	30	658.1	0.544	18.8	4
	33	669.0	0.515	10.9	3
	36	677.9	0.489	8.9	3
	39	686.8	0.466	8.9	3
	42	694.7	0.445	7.9	3
	45	703.6	0.426	8.9	3
X	48	709.5	0.409	5.9	3


DELTA T DELTA P
DINKEL #11/DST #1
PRESSURE
TIME
750
700
650
600
550
500
450
400
350
300
250
0
10
20
30
40
50


HORNER PLOT
PRESSURE
LOG = T+(MIN/MIN)
750
700
650
600
550
500
450
400
350
300
250
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1.1
1.2
1.3
1.4
1.5
INITIAL
FINAL

TRILOBITE TESTING L.L.C.

OPERATOR : Raney Oil Co
WELL NAME: Dinkel #11
LOCATION : 3-14S-20W, Ellis Cty KS
INTERVAL : 3825.00 To 3861.00 ft

DATE 07/24/95
KB 2241.00 ft
GR 0.00 ft
TD 3861.00 ft

TICKET NO: 7945 DST #2
FORMATION: Arbuckle
TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4
PF 30	Rec.		AK-1	AK-1	AK-1	
SI 45	Range(Psi)	4000.0	4000.0	4375.0	0.0	0.0
SF 60	Clock(hrs)	23858	23858	25108		
FS 45	Depth(ft)	3829.0	3829.0	3857.0	0.0	0.0

TIME DATA----------
PF Fr. 30 to hr
IS Fr. 45 to hr
SF Fr. to 1 hr
FS Fr. 45 to hr

	Field	1	2	3	4
A. Init Hydro	1906.0	1892.0	0.0	0.0	0.0
B. First Flow	68.0	58.0	0.0	0.0	0.0
B1. Final Flow	68.0	60.0	0.0	0.0	0.0
C. In Shut-in	729.0	726.0	0.0	0.0	0.0
D. Init Flow	98.0	89.0	0.0	0.0	0.0
E. Final Flow	108.0	108.0	0.0	0.0	0.0
F. Fl Shut-in	669.0	670.0	0.0	0.0	0.0
G. Final Hydro	1816.0	1796.0	0.0	0.0	0.0
Inside/Outside	I	I	O		

T STARTED hr
T ON BOTM hr
T OPEN 2237 hr
T PULLED 0137 hr
T OUT hr

RECOVERY
Tot Fluid 248.00 ft of 0.00 ft in DC and 248.00 ft in DP
180.00 ft of Gas in Pipe
124.00 ft of Clean Gassy Oil - 20% gas, 80% oil
124.00 ft of Mud Cut Gassy Oil - 10% gas, 70% oil, 20% mud
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
SALINITY 0.00 P.P.M. A.P.I. Gravity 38.00

TOOL DATA----------

Tool Wt.	0.00 lbs
Wt Set On Packer	0.00 lbs
Wt Pulled Loose	0.00 lbs
Initial Str Wt	0.00 lbs
Unseated Str Wt	0.00 lbs
Bot Choke	0.75 in
Hole Size	7.88 in
D Col. ID	0.00 in
D. Pipe ID	3.80 in
D.C. Length	0.00 ft
D.P. Length	0.00 ft

BLOW DESCRIPTION

Initial Blow -
Weak building to fair, bottom of bucket in 10 min

Final Blow -
Weak, building to 10" fair blow

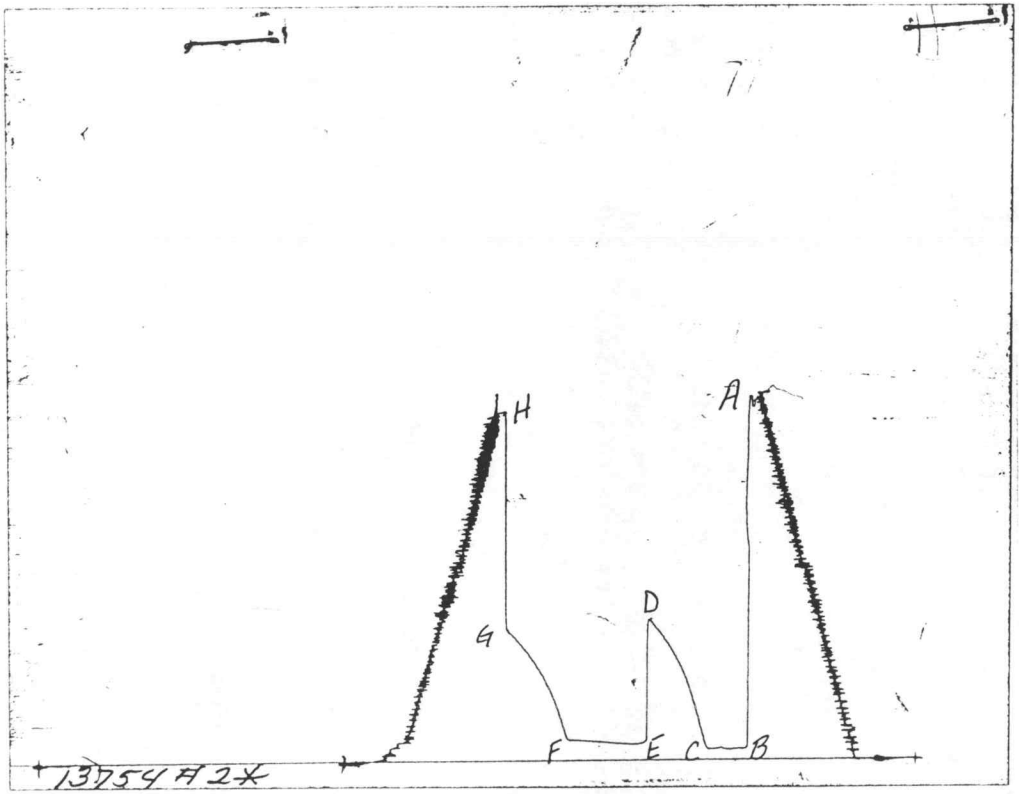
MUD DATA----------

Mud Type	Chemical
Weight	8.90 lb/c
Vis.	45.00 S/L
W.L.	8.80 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	118.00 F
Hole Condition	
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	Dan Bangle
Co. Rep.	Roger Welty
Contr.	Duke
Rig #	1
Unit #	
Pump T.	

SAMPLES:
SENT TO:

Test Successful: Y

CHART PAGE



This is an actual photograph of recorder chart

INITIAL FLOW

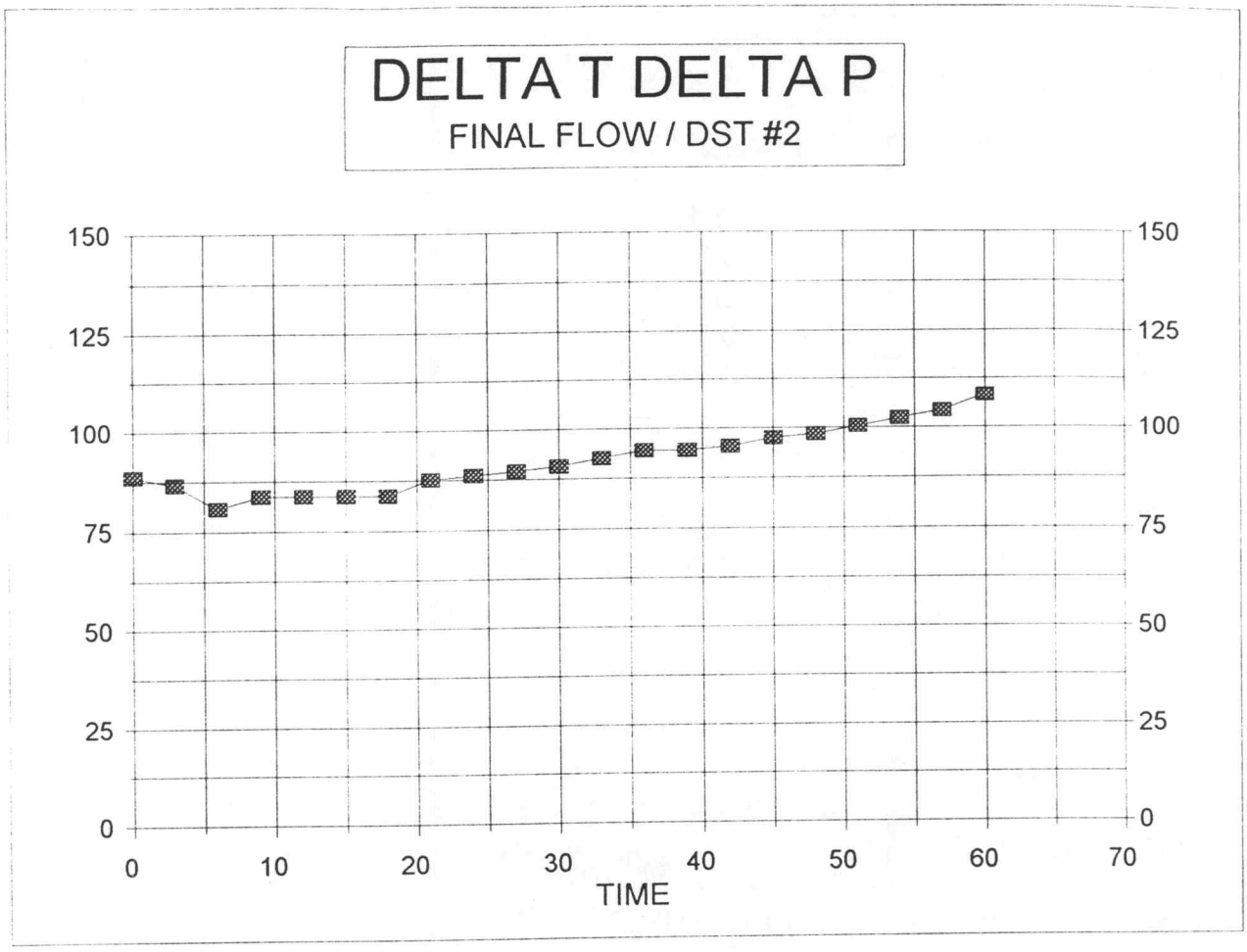
DST # 2
RECORDER 13754

TIME(MIN)	PRESSURE	<> PRESSURE
0	58.1	58.1
3	58.1	0.0
6	58.1	0.0
9	58.1	0.0
12	58.1	0.0
15	59.1	1.0
18	59.1	0.0
21	64.0	4.9
24	59.1	-4.9
27	57.1	-2.0
30	60.0	3.0

FINAL FLOW

DST # 2
RECORDER 13754

TIME(MIN)	PRESSURE	<> PRESSURE
0	88.6	88.6
3	86.6	-2.0
6	80.7	-5.9
9	83.7	3.0
12	83.7	0.0
15	83.7	0.0
18	83.7	0.0
21	87.6	3.9
24	88.6	1.0
27	89.6	1.0
30	90.6	1.0
33	92.5	2.0
36	94.5	2.0
39	94.5	0.0
42	95.5	1.0
45	97.4	2.0
48	98.4	1.0
51	100.4	2.0
54	102.4	2.0
57	104.3	2.0
60	108.3	3.9



INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE: 50.18353

INITIAL SHUT-IN

DINKEL #11

DST # 2	SLOPE	1899.8	PSI/CYCLE
INITIAL FLOW TIME 30	P*	1126.85	PSI

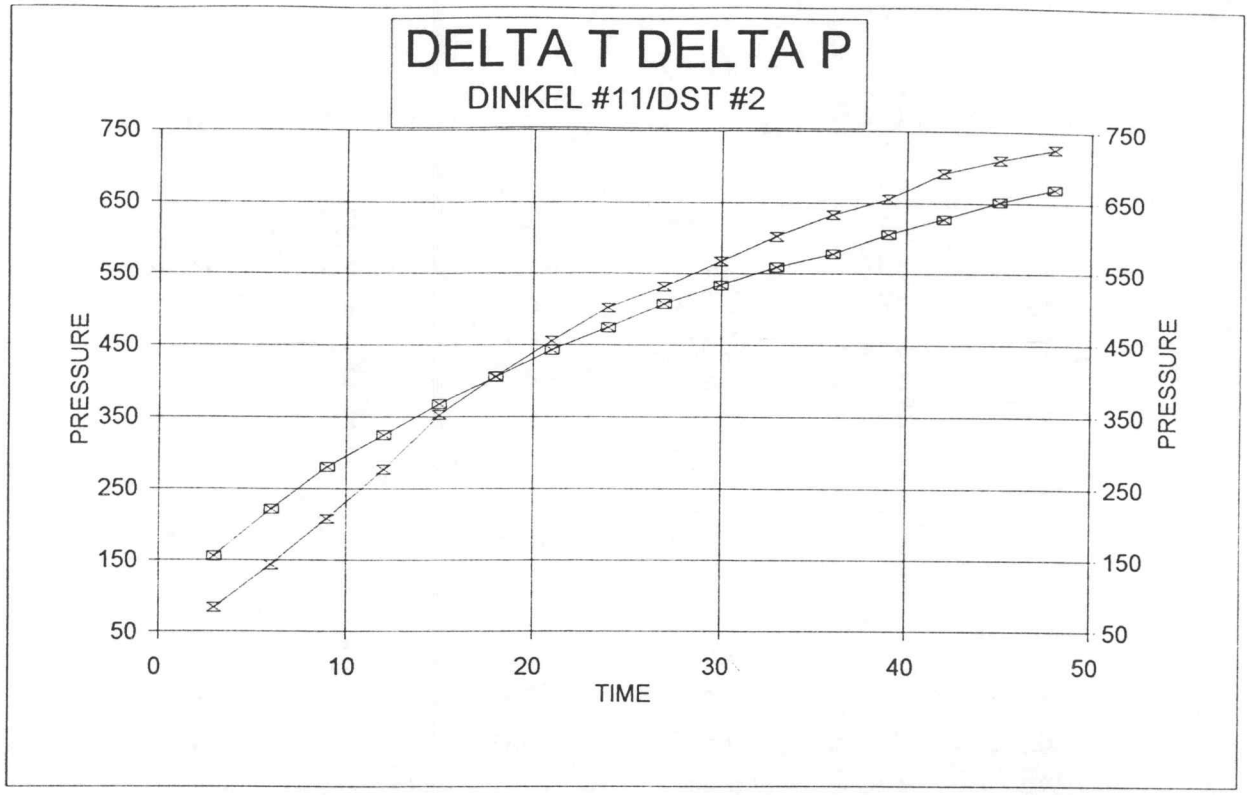
	TIME(MIN)	Pws (psi)	Log Horn T	<> PRESSURE	Horn T
	3	83.7	1.041	83.7	11
	6	143.7	0.778	60.0	6
	9	207.7	0.637	64.0	4
	12	276.6	0.544	68.9	4
	15	352.4	0.477	75.8	3
	18	406.5	0.426	54.1	3
	21	455.7	0.385	49.2	2
	24	502.0	0.352	46.3	2
	27	531.6	0.325	29.6	2
	30	567.2	0.301	35.6	2
	33	602.8	0.281	35.6	2
	36	633.4	0.263	30.6	2
Q	39	656.1	0.248	22.7	2
	42	691.7	0.234	35.6	2
	45	710.5	0.222	18.8	2
X	48	726.3	0.211	15.8	2

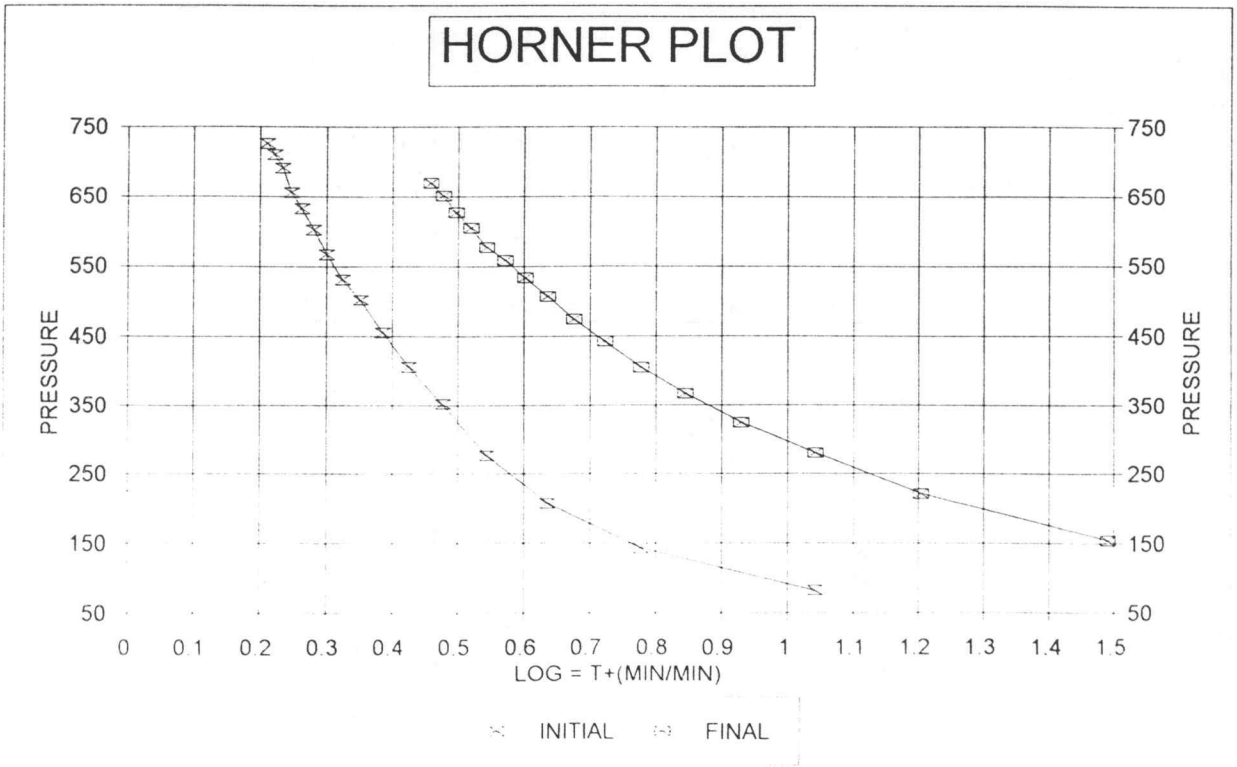
FINAL SHUT-IN

DINKEL #11

DST # 2	SLOPE	981.5	PSI/CYCLE
TOTAL FLOW TIME 90	P*	1120.09	PSI

	TIME(MIN)	Pws (psi)	Log Horn T	<> PRESSURE	Horn T
	3	155.5	1.491	155.5	31
	6	221.5	1.204	65.9	16
	9	280.5	1.041	59.1	11
	12	324.8	0.929	44.3	9
	15	368.1	0.845	43.3	7
	18	405.5	0.778	37.4	6
	21	442.9	0.723	37.4	5
	24	474.4	0.677	31.5	5
	27	506.9	0.637	32.5	4
	30	533.6	0.602	26.7	4
Q	33	559.3	0.571	25.7	4
	36	578.1	0.544	18.8	4
	39	605.7	0.520	27.7	3
	42	627.5	0.497	21.7	3
	45	652.2	0.477	24.7	3
X	48	670.0	0.459	17.8	3


DELTA T DELTA P
DINKEL #11/DST #2
PRESSURE
750
650
550
450
350
250
150
50
0
10
20
30
40
50
TIME


HORNER PLOT
PRESSURE
750
650
550
450
350
250
150
50
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1.1
1.2
1.3
1.4
1.5
LOG = T+(MIN/MIN)
INITIAL
FINAL

COMPUTER OIL EVALUATION BY TRILOBITE TESTING, L.L.C.

RANEY OIL CO

DINKEL #11 DST 2

3 14S 20W ELLIS KS

****

ELEVATION:	2241	KB	EST. PAY	7	FT
DATUM:	-1589		ZONE TESTED:	ARBUCKLE	
TEST INTERVAL:	3825-3861		TIME INTERVALS:	30-45-60-45	
RECORDER DEPTH:	3829		VISCOSITY:	5.65	CP
BOTTOM HOLE TEMP:	121		HOLE SIZE:	7.875	IN

****

CUBIC FEET OF GAS IN PIPE:	14			
TOTAL FEET OF RECOVERY:	248.00	CORRECTED PIPE FILLUP:	298.343	
TOTAL BARRELS OF RECOVERY:	3.53	CORR. BARRELS OF RECOVERY:	4.242	BBL
BARRELS IN DRILL PIPE:	3.53	API GRAVITY:	38	
BARRELS IN WEIGHT PIPE:	0.00	FLUID GRADIENT:	0.362	
BARRELS IN DRILL COLLARS:	0.00			
GAS OIL RATIO:	4.08	CU.FT/BBL		
BUBBLE POINT PRESSURE:	37			
UNCORRECTED INITIAL PRODUCTION:			56.42	BBL
INITIAL PRODUCTION CORRECTED TO FINAL FLOW PRESSURE:			67.88	BBL/DAY
INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE:			50.184	

****

INITIAL SLOPE	1899.77	PSI/CYCLE	FINAL SLOPE	981.46	PSI/CYCLE
INITIAL P*	1126.85	PSI	FINAL P*	1120.09	PSI

****

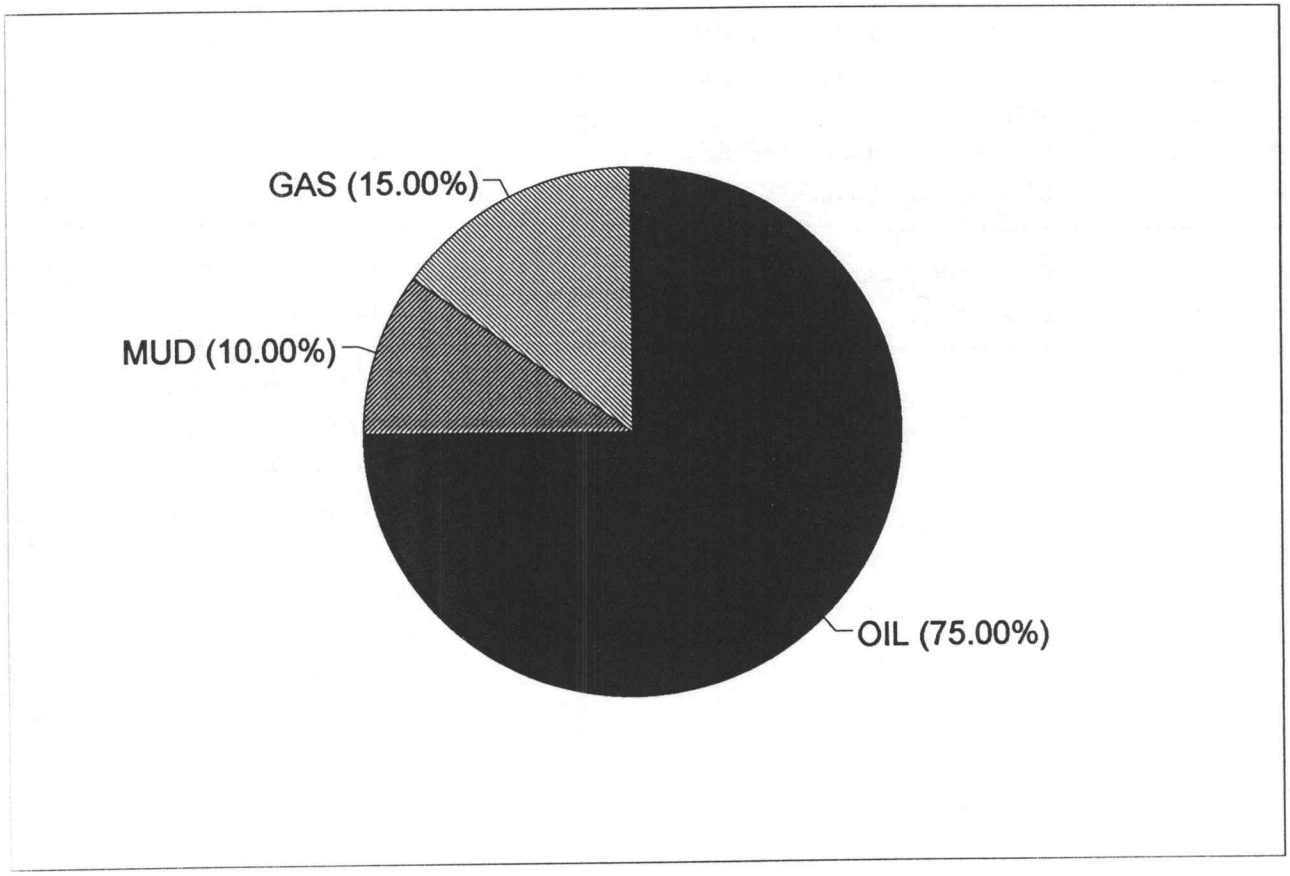
TRANSMISSIBILITY	11.25	(MD.-FT./CP.)
PERMEABILITY	9.07	(MD.)
INDICATED FLOW CAPACITY	63.50	(MD.FT)
PRODUCTIVITY INDEX	0.01	(BBL/DAY/PSI)
DAMAGE RATIO	0.19	
RADIUS OF INVESTIGATION	28.57	(FT,)
POTENTIOMETRIC SURFACE	1009.48	(FT.)
DRAWDOWN FACTOR	0.600	(%)

CALCULATED RECOVERY ANALYSIS - DRILL PIPE

DST # 2 TICKET # 7945

SAMPLE #	TOTAL FEET	GAS %	GAS FEET	OIL %	OIL FEET	WATER %	WATER FEET	MUD %	MUD FEET
1	124	20	24.8	80	99.2		0		0
2	124	10	12.4	70	86.8		0	20	24.8
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
6			0		0		0		0
TOTAL	248	15.00	37.2	75.00	186	0	0	10.00	24.8

			HRS OPE	BBL/DAY
BBL OIL=	2.64492	*	1.50	42.32
BBL WATER=	0	*		0.00
BBL MUD=	0.352656			
BBL GAS	0.528984			



TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

№ 7945

"Tight Hole"

Well Name & No. Dinkel #1 Test No. 2 Date 7-24-95

Company Raney Oil Co. Zone Tested Arbuckle

Address _____ Elevation 2241 K.B.

Co. Rep./Geo. Roger Welty Cont. Duke #1 Est. Ft. of Pay 7'

Location: Sec. 3 Twp. 14 Rge. 20 Co. Ellis State Ks

No. of Copies 3 Distribution Sheet _____ Yes _____ No Turnkey X Yes _____ No X Evaluation

Interval Tested 3825 - 3861 Drill Pipe Size 4.5 XH

Anchor Length 36 Top Choke — 1" _____ Bottom Choke — ¾" _____

Top Packer Depth 3820 Hole Size — 7⅞" _____ Rubber Size — 6¾" _____

Bottom Packer Depth 3825 Wt. Pipe I.D. — 2.7 Ft. Run _____

Total Depth 3861 Drill Collar — 2.25 Ft. Run _____

Mud Wt. 8.9 lb/gal. Viscosity 45 Filtrate 8.8

Tool Open @ 10:37 p.m. Initial Blow Weak - building to fair bottom of bucket in 10 min.

Final Blow Weak - building to 10" fair blow

Recovery — Total Feet 248 Feet of Gas in Pipe 180 Flush Tool? _____

Rec.	124	Feet Of	CGsyO	20 %gas	80 %oil	%water		%mud
Rec.	124	Feet Of	MCGsyO	10 %gas	70 %oil	%water	20	%mud
Rec.		Feet Of		%gas	%oil	%water		%mud
Rec.		Feet Of		%gas	%oil	%water		%mud
Rec.		Feet Of		%gas	%oil	%water		%mud

BHT 118 °F Gravity _____ °API @ _____ °F Corrected Gravity 38 °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 4,000 ppm System

(A) Initial Hydrostatic Mud	1906 PSI	AK1 Recorder No.	13754	Range	4000
(B) First Initial Flow Pressure	68 PSI	@ (depth)	3829	w/Clock No.	23858
(C) First Final Flow Pressure	68 PSI	AK1 Recorder No.	13849	Range	4375
(D) Initial Shut-In Pressure	729 PSI	@ (depth)	3857	w/Clock No.	25108
(E) Second Initial Flow Pressure	98 PSI	AK1 Recorder No.		Range	
(F) Second Final Flow Pressure	108 PSI	@ (depth)		w/Clock No.	
(G) Final Shut-In Pressure	669 PSI	Initial Opening	30	Test	600
(H) Final Hydrostatic Mud	1816 PSI	Initial Shut-In	45	Jars	
		Final Flow	60	Safety Joint	
		Final Shut-In	45	Straddle	
				Circ. Sub	
				Sampler	
				Extra Packer	
				Other	50
				TOTAL PRICE $	650

Approved By _____

Our Representative Dan Rangel

Printcraft Printers - Hays, KS

TRILOBITE TESTING L.L.C.

OPERATOR : Raney Oil Co — DATE 07/25/95
WELL NAME: Dinkel #11 — KB 2241.00 ft — TICKET NO: 7946 — DST #3
LOCATION : 3-14S-20W, Ellis Cty KS — GR 0.00 ft — FORMATION: Arbuckle
INTERVAL : 3892.00 To 3900.00 ft — TD 3900.00 ft — TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins			Field	1	2	3	4
PF	15	Rec.	AK-1	AK-1	AK-1		
SI	15	Range(Psi)	4000.0	4000.0	4375.0	0.0	0.0
SF	15	Clock(hrs)	23858	23858	25108		
FS	15	Depth(ft)	3880.0	3880.0	3896.0	0.0	0.0

TIME DATA----------

PF Fr.	15 to	hr
IS Fr.	15 to	hr
SF Fr.	15 to	hr
FS Fr.	15 to	hr

	Field	1	2	3	4
A. Init Hydro	1966.0	1943.0	0.0	0.0	0.0
B. First Flow	88.0	80.0	0.0	0.0	0.0
B1. Final Flow	177.0	168.0	0.0	0.0	0.0
C. In Shut-in	1186.0	1173.0	0.0	0.0	0.0
D. Init Flow	255.0	235.0	0.0	0.0	0.0
E. Final Flow	334.0	313.0	0.0	0.0	0.0
F. Fl Shut-in	1186.0	1179.0	0.0	0.0	0.0
G. Final Hydro	1836.0	1817.0	0.0	0.0	0.0
Inside/Outside	I	I	O		

T STARTED		hr
T ON BOTM		hr
T OPEN	1550	hr
T PULLED	1650	hr
T OUT		hr

TOOL DATA----------

Tool Wt.	0.00 lbs
Wt Set On Packer	0.00 lbs
Wt Pulled Loose	0.00 lbs
Initial Str Wt	0.00 lbs
Unseated Str Wt	0.00 lbs
Bot Choke	0.75 in
Hole Size	7.88 in
D Col. ID	0.00 in
D. Pipe ID	3.80 in
D.C. Length	0.00 ft
D.P. Length	0.00 ft

RECOVERY
Tot Fluid 744.00 ft of 0.00 ft in DC and 744.00 ft in DP
744.00 ft of Water - 100% water
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
RW .19 @ 82.7 F
SALINITY 31000.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA----------

Mud Type	Chemical
Weight	8.90 lb/cf
Vis.	48.00 S/L
W.L.	10.00 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	124.00 F
Hole Condition	
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	Dan Bangle
Co. Rep.	Roger Welty
Contr.	Duke
Rig #	1
Unit #	
Pump T.	

BLOW DESCRIPTION

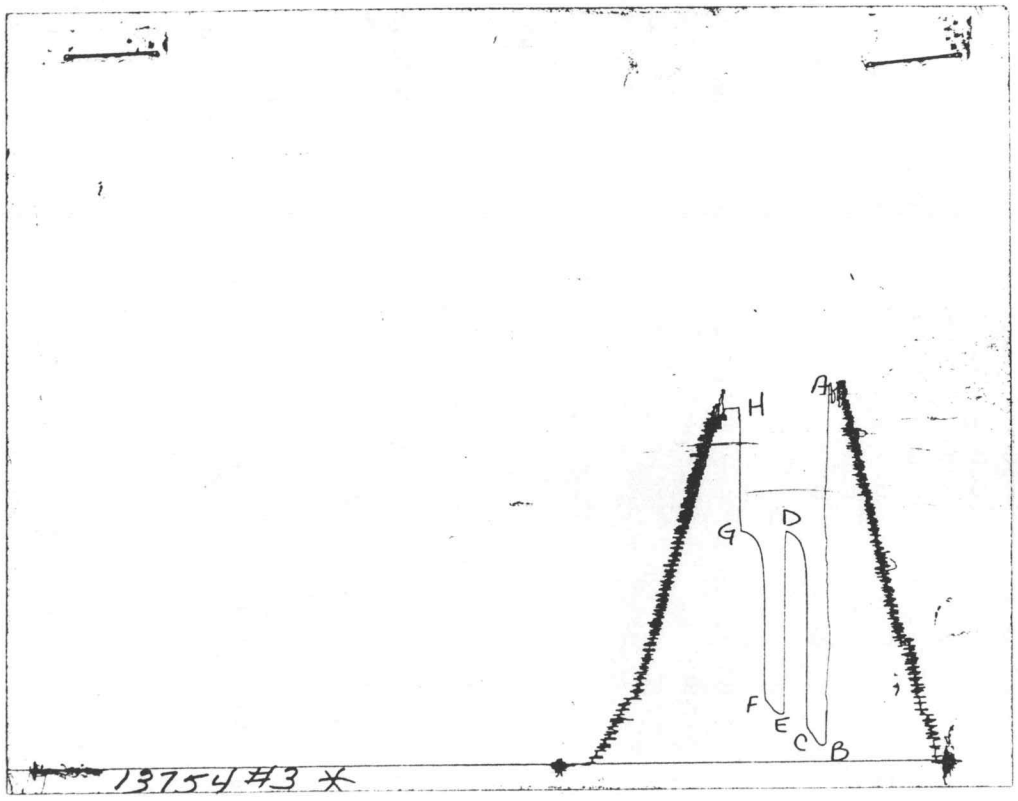
Initial Blow -
Strong, bottom of bucket in 5 min

Final Blow -
Strong, bottom of bucket in 7 min

SAMPLES:
SENT TO:

Test Successful: Y

CHART PAGE



This is an actual photograph of recorder chart

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

№ 7946

Well Name & No. Dinkel #1 Test No. 3 Date 7-25-95

Company Raney Oil Co. Zone Tested Arbuckle

Address Elevation 2241 K.B.

Co. Rep./Geo. Roger Welty Cont. Duke #1 Est. Ft. of Pay

Location: Sec. 3 Twp. 14 Rge. 20 Co. Ellis State Ks.

No. of Copies 3 Distribution Sheet ____ Yes ____ No Turnkey X Yes ____ No No Evaluation

Interval Tested 3892-3900 Drill Pipe Size 4.5 XH

Anchor Length 8 Top Choke — 1" ____ Bottom Choke — ¾" ____

Top Packer Depth 3887 Hole Size — 7⅞" ____ Rubber Size — 6¾" ____

Bottom Packer Depth 3892 Wt. Pipe I.D. — 2.7 Ft. Run ____

Total Depth 3900 Drill Collar — 2.25 Ft. Run ____

Mud Wt. 8.9 lb/gal. Viscosity 48 Filtrate 10

Tool Open @ 3:50 p.m. Initial Blow Strong - B.O.B. in 5 min.

Final Blow Strong - B.O.B. in 7 min.

Recovery — Total Feet 744 Feet of Gas in Pipe ____ Flush Tool? ____

Rec. 744	Feet Of WTR.	%gas	%oil	100 %water	%mud	
Rec. ____	Feet Of ____	%gas	%oil	%water	%mud	
Rec. ____	Feet Of ____	%gas	%oil	%water	%mud	
Rec. ____	Feet Of ____	%gas	%oil	%water	%mud	
Rec. ____	Feet Of ____	%gas	%oil	%water	%mud	

BHT 124 °F Gravity ____ °API @ ____ °F Corrected Gravity ____ °API

RW .19 @ 82.7 °F Chlorides 31,000 ppm Recovery Chlorides 6,000 ppm System

(A) Initial Hydrostatic Mud	1966 PSI	AK1 Recorder No. 1375-4	Range 4000		
(B) First Initial Flow Pressure	88 PSI	@ (depth) 3880	w/Clock No. 2385-8		
(C) First Final Flow Pressure	177 PSI	AK1 Recorder No. 13849	Range 4375		
(D) Initial Shut-In Pressure	1186 PSI	@ (depth) 3896	w/Clock No. 25108		
(E) Second Initial Flow Pressure	255 PSI	AK1 Recorder No. ____	Range ____		
(F) Second Final Flow Pressure	334 PSI	@ (depth) ____	w/Clock No. ____		
(G) Final Shut-In Pressure	1186 PSI	Initial Opening 15	Test 600		
(H) Final Hydrostatic Mud	1836 PSI	Initial Shut-In 15	Jars ____		
		Final Flow 15	Safety Joint ____		
		Final Shut-In 15	Straddle ____		
			Circ. Sub ____		
			Sampler ____		
			Extra Packer ____		
			Other A.P. Carrier 4/c		
			TOTAL PRICE $ 600		

Approved By Roger Welty

Our Representative Dan Bangle

Printcraft Printers - Hays, KS