

15-051-24930

3-14s-20w

WELL NAME: Dinkel #12
COMPANY: Raney Oil Company
LOCATION: 3-14S-20W
Ellis County Kansas
DATE: 06/15/96

TRILOBITE TESTING L.L.C.

OPERATOR : Raney Oil Company
 WELL NAME: Dinkel #12
 LOCATION : 3-14S-20W, Ellis Cty KS
 INTERVAL : 3684.00 To 3705.00 ft

DATE 06/12/96
 KB 2243.00 ft TICKET NO: 9406 DST #1
 GR 2234.00 ft FORMATION: LKC
 TD 3705.00 ft TEST TYPE: CONV

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	AK-1	AK-1	AK-1			PF Fr. 2120 to 2150 hr
SI 30	Range(Psi)	3050.0	3050.0	4025.0	0.0	0.0	IS Fr. 2150 to 2220 hr
SF 30	Clock(hrs)	12	12	12			SF Fr. 2220 to 2250 hr
FS 30	Depth(ft)	3687.0	3687.0	3700.0	0.0	0.0	FS Fr. 2250 to 2320 hr

	Field	1	2	3	4	
A. Init Hydro	1865.0	1860.0	0.0	0.0	0.0	T STARTED 2002 hr
B. First Flow	22.0	18.0	0.0	0.0	0.0	T ON BOTM 2118 hr
B1. Final Flow	22.0	18.0	0.0	0.0	0.0	T OPEN 2120 hr
C. In Shut-in	172.0	173.0	0.0	0.0	0.0	T PULLED 2320 hr
D. Init Flow	22.0	22.0	0.0	0.0	0.0	T OUT 0018 hr
E. Final Flow	22.0	22.0	0.0	0.0	0.0	
F. Fl Shut-in	157.0	157.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1857.0	1858.0	0.0	0.0	0.0	Tool Wt. 1700.00 lbs
Inside/Outside	I	I	O			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 60000.00 lbs
						Initial Str Wt 48000.00 lbs
						Unseated Str Wt 48000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 3689.00 ft

RECOVERY

Tot Fluid 30.00 ft of 0.00 ft in DC and 30.00 ft in DP
 60.00 ft of Gas in pipe
 30.00 ft of Oil cut mud - 20% oil, 80% mud

SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow -
 Weak .25" blow building to 2.5"

Final Flow -
 1.5" blow building to 2.5"

SAMPLES:
 SENT TO:

MUD DATA-----
 Mud Type Chemical
 Weight 9.00 lb/c
 Vis. 48.00 S/L
 W.L. 8.80 in3
 F.C. 0.00 in
 Mud Drop
 Amt. of fill 0.00 ft
 Btm. H. Temp. 100.00 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 Paul Simpson
 Co. Rep. Roger Welty
 Contr. Duke
 Rig # 4
 Unit #
 Pump T.

Test Successful: Y

CALCULATED RECOVERY ANALYSIS

DST 1

TICKET # 9406

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
DRILL PIPE 1	30		0	20	6	0	0	80	24
2			0		0	0	0		0
3			0		0	0	0		0
4			0		0	0	0		0
5			0		0	0	0		0
6			0		0	0	0		0
WEIGHT PIP 1			0		0	0	0		0
2			0		0	0	0		0
3			0		0	0	0		0
4			0		0	0	0		0
DRL COLLAR 1			0		0	0	0		0
2			0		0	0	0		0
3			0		0	0	0		0
4			0		0	0	0		0
5			0		0	0	0		0
TOTAL	30		0		6		0		24

HRS OPEN BBL/DAY

BBL OIL= 0.08532 * 1 2.04768
 BBL WATER= 0 * 0
 BBL MUD= 0.34128
 BBL GAS = 0

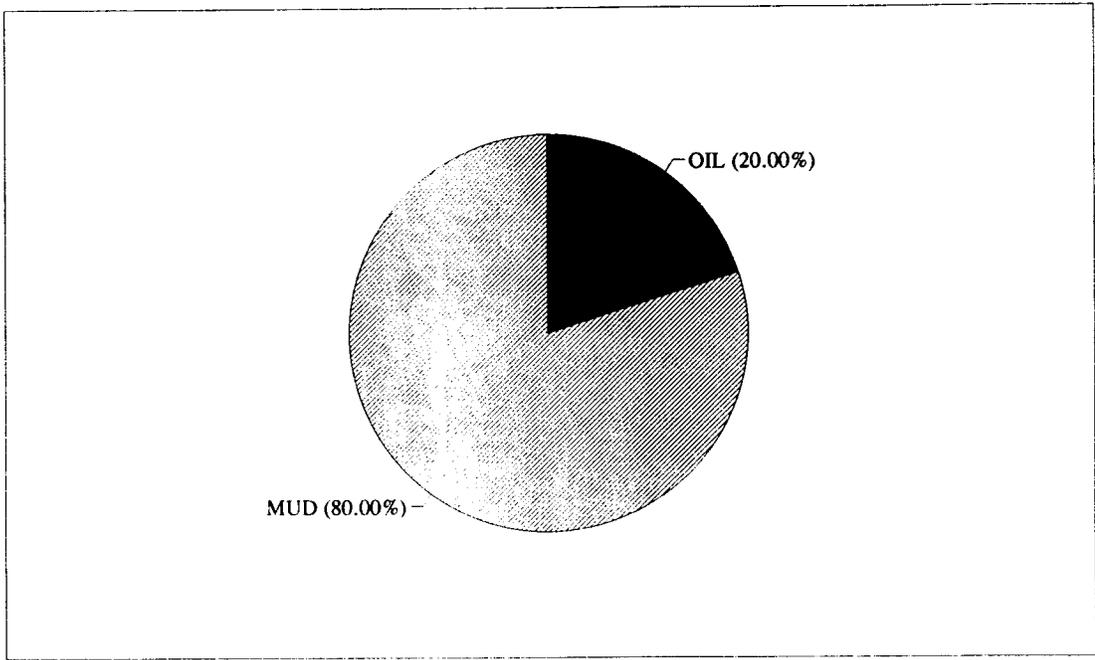
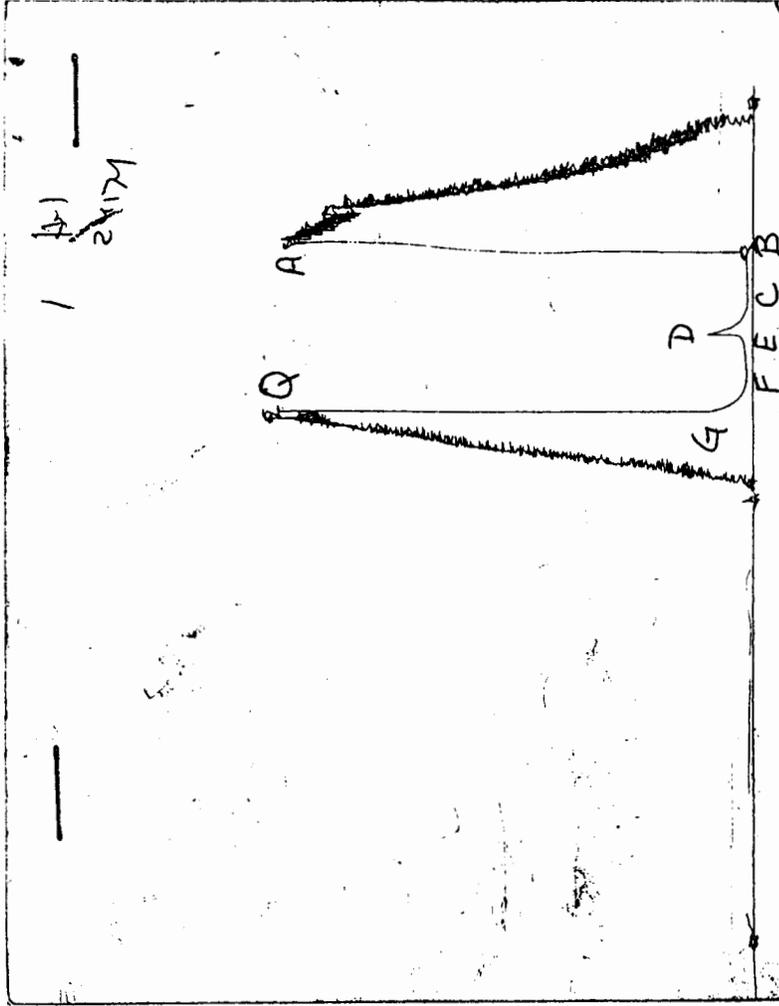


CHART PAGE



This is a photocopy of the actual AK-1 recorder chart

*** TOOL DIAGRAM *** CONV

WELL NAME: Dinkel #12

LOCATION : 3-14S-20W, Ellis Cty KS

TICKET No. 9406 D.S.T. No. 1 DATE 06/12/96

TOTAL TOOL TO BOTTOM OF TOP PACKERS 20

INTERVAL TOOL

TOTAL PACKERS AND ANCHOR 21

TOTAL TOOL 41

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 41

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands 59 Single 1 Total 3689

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3730

TOTAL DEPTH 3705

TOTAL DRILL PIPE ABOVE K.B. 25

REMARKS:

P.O. SUB	
C.O. SUB	3664
S.I. TOOL	3670
HMV	3675
JARS N/A	
SAFETY JOINT N/A	
PACKER	3679
PACKER	3684
DEPTH 3684	
STUBB	3685
ANCHOR	
AK-1 recorder	3687
perf	
T.C. DEPTH	
AK-1 recorder	3700
BULLNOSE 5' bull plug	
T.D.	3705

1 to Roger in Hill City
3 to Renee

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 9406

Well Name & No. <u>Dinkel #12</u>	Test No. <u>1</u>	Date <u>6-12-96</u>
Company <u>Ranley Oil Company</u>	Zone Tested <u>LKC</u>	
Address <u>3425 Tam O' Shanter Lawrence Ks 6604</u>	Elevation <u>2243</u>	KB <u>2239</u> GL
Co. Rep / Geo. <u>Roger Welby</u>	Cont. <u>Duke #4</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>3</u> Twp. <u>14s</u>	Rge. <u>20w</u>	Co. <u>Ellis</u> State <u>Ks</u>
No. of Copies _____	Distribution Sheet (Y, N) _____	Turnkey <input checked="" type="checkbox"/> (Y, N) _____ Evaluation (Y, N) _____

Interval Tested <u>3684 - 3705</u>	Initial Str Wt./Lbs. <u>48,000</u>	Unseated Str Wt./Lbs. <u>48,000</u>
Anchor Length <u>21</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>60,000</u>
Top Packer Depth <u>3679</u>	Tool Weight <u>1700</u>	
Bottom Packer Depth <u>3684</u>	Hole Size — <u>7 7/8"</u>	Rubber Size — <u>6 3/4"</u>
Total Depth <u>3905</u>	Wt. Pipe Run _____	Drill Collar Run _____
Mud Wt. <u>9.0</u> LCM _____ Vis. <u>48</u> WL <u>8.8</u>	Drill Pipe Size <u>4 1/2" H</u>	Ft. Run <u>3689</u> <u>59.5</u>
Blow Description <u>weak 1/2" blow building to 2 1/2"</u>		

FF - 1 1/2" blow building to 2 1/2"

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
<u>30</u>	<u>60</u>		<u>30</u>
Rec. <u>30</u> Feet Of <u>OCM</u>	%gas <u>20</u> %oil _____ %water <u>80</u> %mud _____		
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____		
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____		
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____		

BHT 100 °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud <u>1865</u>	PSI Recorder No. <u>24174</u>	T-Started <u>2002</u>
(B) First Initial Flow Pressure <u>22</u>	PSI (depth) <u>3687</u>	T-Open <u>2120</u>
(C) First Final Flow Pressure <u>22</u>	PSI Recorder No. <u>10332</u>	T-Pulled <u>2320</u>
(D) Initial Shut-in Pressure <u>172</u>	PSI (depth) <u>3700</u>	T-Out <u>0018</u>
(E) Second Initial Flow Pressure <u>22</u>	PSI Recorder No. _____	
(F) Second Final Flow Pressure <u>22</u>	PSI (depth) _____	
(G) Final Shut-in Pressure <u>157</u>	PSI Initial Opening <u>30</u>	Test <u>600</u>
(H) Final Hydrostatic Mud <u>1857</u>	PSI Initial Shut-in <u>30</u>	Jars _____
	Final Flow <u>30</u>	Safety Joint _____
	Final Shut-in <u>30</u>	Straddle _____

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF 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, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By Roger Welby
Our Representative Paul Simpson

Extra Packer _____
Elect. Rec. _____
Other _____
TOTAL PRICE \$ 600



TRILOBITE TESTING L.L.C.

OPERATOR : Raney Oil Company
 WELL NAME: Dinkel #12
 LOCATION : 3-14S-20W, Ellis Cty KS
 INTERVAL : 3806.00 To 3822.00 ft

DATE 06/13/96
 KB 2243.00 ft TICKET NO: 9407 DST #2
 GR 2234.00 ft FORMATION: Marmaton
 TD 3822.00 ft TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 15 Rec.	AK-1	AK-1	AK-1			PF Fr. 1338 to 1353 hr
SI 15 Range(Psi)	3050.0	3050.0	4025.0	0.0	0.0	IS Fr. 1353 to 1408 hr
SF 15 Clock(hrs)	12	12	12			SF Fr. 1408 to 1423 hr
FS 15 Depth(ft)	3809.0	3809.0	3817.0	0.0	0.0	FS Fr. 1423 to 1438 hr

	Field	1	2	3	4	
A. Init Hydro	1895.0	1879.0	0.0	0.0	0.0	T STARTED 1228 hr
B. First Flow	22.0	19.0	0.0	0.0	0.0	T ON BOTM 1335 hr
B1. Final Flow	22.0	19.0	0.0	0.0	0.0	T OPEN 1338 hr
C. In Shut-in	507.0	508.0	0.0	0.0	0.0	T PULLED 1438 hr
D. Init Flow	22.0	25.0	0.0	0.0	0.0	T OUT hr
E. Final Flow	22.0	25.0	0.0	0.0	0.0	
F. Fl Shut-in	290.0	240.0	0.0	0.0	0.0	
G. Final Hydro	1887.0	1857.0	0.0	0.0	0.0	
Inside/Outside	I	I	O			

RECOVERY

Tot Fluid 15.00 ft of 0.00 ft in DC and 15.00 ft in DP
 2.00 ft of Free oil - 100% oil
 13.00 ft of Slightly oil cut mud - 15% oil, 85% mud

TOOL DATA-----
 Tool Wt. 0.00 lbs
 Wt Set On Packer 20000.00 lbs
 Wt Pulled Loose 65000.00 lbs
 Initial Str Wt 50000.00 lbs
 Unseated Str Wt 50000.00 lbs
 Bot Choke 0.75 in
 Hole Size 7.88 in
 D Col. ID 2.25 in
 D. Pipe ID 3.80 in
 D.C. Length 0.00 ft
 D.P. Length 3810.00 ft

SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow -
 Weak .25" blow
 Final Flow -
 Weak .125" blow

MUD DATA-----
 Mud Type Chemical
 Weight 9.20 lb/c
 Vis. 50.00 S/L
 W.L. 9.40 in3
 F.C. 0.00 in
 Mud Drop
 Amt. of fill 0.00 ft
 Btm. H. Temp. 0.00 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 Paul Simpson
 Co. Rep. Roger Welty
 Contr. Duke
 Rig # 4
 Unit #
 Pump T.

SAMPLES:
 SENT TO:

Test Successful: Y

CALCULATED RECOVERY ANALYSIS

DST 2

TICKET # 9407

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
DRILL PIPE 1	2		0	100	2		0		0
2	13		0	15	1.95		0	85	11.05
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
6			0		0		0		0
WEIGHT PIP 1			0		0		0		0
2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
DRL COLLAR 1			0		0		0		0
2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
TOTAL	15		0		3.95		0		11.05

HRS OPEN BBL/DAY

BBL OIL= 0.056169 * 0.5 2.696112
 BBL WATER= 0 * 0
 BBL MUD= 0.157131
 BBL GAS = 0

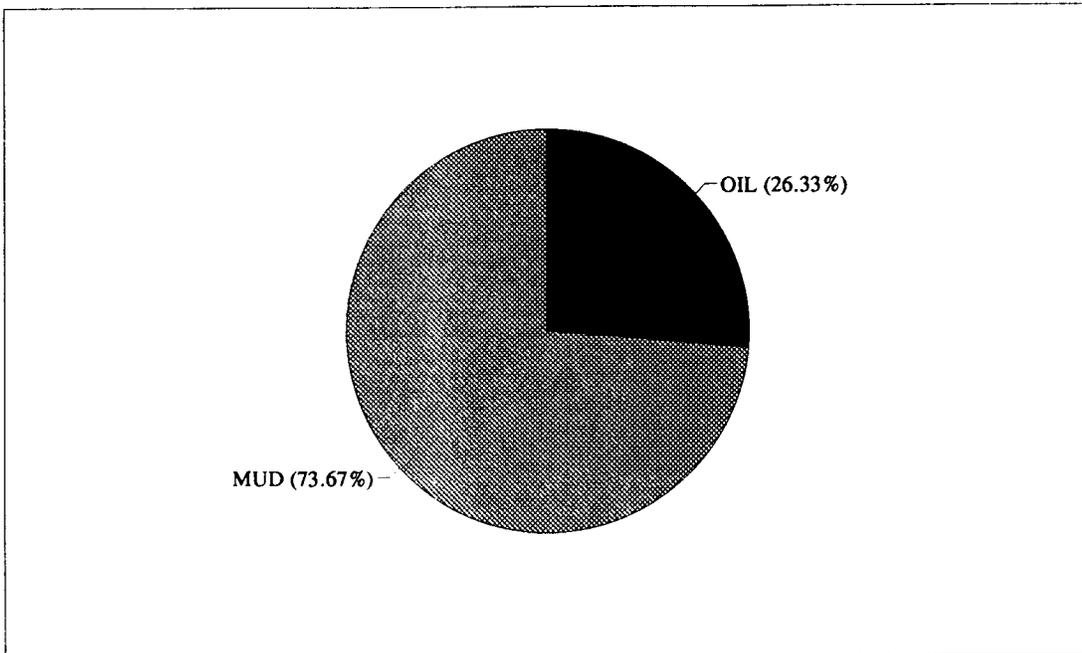
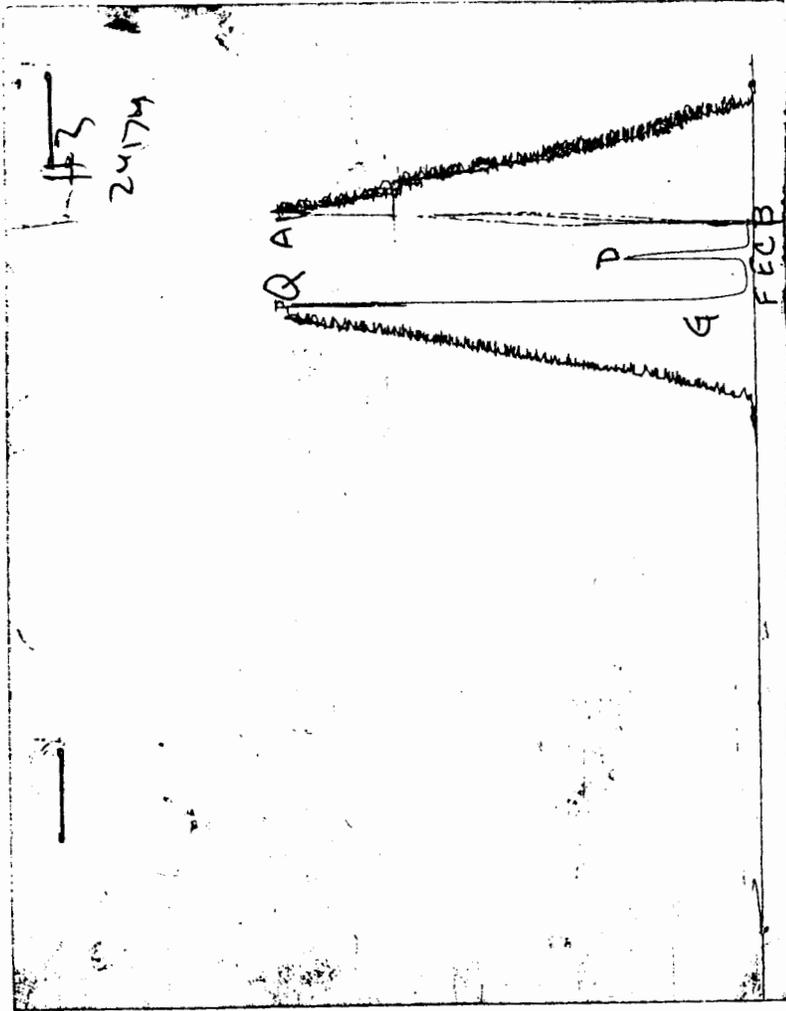


CHART PAGE



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*** TOOL DIAGRAM *** CONV

WELL NAME: Dinkel #12

LOCATION : 3-14S-20W, Ellis Cty KS

TICKET No. 9407 D.S.T. No. 2 DATE 06/13/96

TOTAL TOOL TO BOTTOM OF TOP PACKERS 20

INTERVAL TOOL

TOTAL PACKERS AND ANCHOR 16

TOTAL TOOL 36

DRILL COLLAR ANCHOR IN INTERVAL

C. ANCHOR STANDS Single Total

P. ANCHOR STANDS Single Total

TOTAL ASSEMBLY 36

C. ABOVE TOOLS STANDS Single Total

P. ABOVE TOOLS STANDS Single Total 3810

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3846

TOTAL DEPTH 3822

TOTAL DRILL PIPE ABOVE K.B. 24

REMARKS:

P.O. SUB	
C.O. SUB	3786
S.I. TOOL	3792
HMV	3797
JARS N/A	
SAFETY JOINT N/A	
PACKER	3801
PACKER	3806
DEPTH 3806	
STUBB	3807
ANCHOR	
AK-1 recorder	3809
perf	
T.C.	
DEPTH	
AK-1 recorder	3817
BULLNOSE 5' bull plug	
T.D.	3822

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 9407

Well Name & No. <u>Dinkel #12</u>	Test No. <u>2</u>	Date <u>6-13-96</u>
Company <u>Raney Oil Company</u>	Zone Tested <u>Morrison</u>	
Address _____	Elevation _____	KB _____ GL _____
Co. Rep / Geo. <u>Roger Welby</u>	Cont. <u>Duke Ay</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>3</u>	Twp. <u>14s</u>	Rge. <u>20w</u> Co. <u>Ellis</u> State <u>Ks</u>
No. of Copies _____	Distribution Sheet (Y, N) _____	Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested <u>3806-3822</u>	Initial Str Wt./Lbs. <u>50000</u>	Unseated Str Wt./Lbs. <u>50000</u>
Anchor Length <u>16</u>	Wt. Set Lbs. <u>20000</u>	Wt. Pulled Loose/Lbs. <u>65000</u>
Top Packer Depth <u>3801</u>	Tool Weight _____	
Bottom Packer Depth <u>3806</u>	Hole Size — <u>7 7/8"</u>	Rubber Size — <u>6 3/4"</u>
Total Depth <u>3822</u>	Wt. Pipe Run _____	Drill Collar Run _____
Mud Wt. <u>9.2</u> LCM _____ Vis. <u>50</u> WL <u>9.4</u>	Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>3810</u>
Blow Description <u>weak 1/2" blow</u>		

FF- weak 1/2" blow

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
Rec. <u>213</u> Feet Of <u>50cm</u>	%gas <u>15</u>	%oil _____	%water <u>85</u> %mud _____
Rec. <u>2</u> Feet Of <u>free oil</u>	%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 _____ °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud <u>1895</u>	PSI Recorder No. <u>2474</u>	T-Started <u>1228</u>
(B) First Initial Flow Pressure <u>22</u>	PSI (depth) <u>3809</u>	T-Open <u>1338</u>
(C) First Final Flow Pressure <u>22</u>	PSI Recorder No. <u>10332</u>	T-Pulled <u>1438</u>
(D) Initial Shut-in Pressure <u>507</u>	PSI (depth) <u>3817</u>	T-Out _____
(E) Second Initial Flow Pressure <u>22</u>	PSI Recorder No. _____	
(F) Second Final Flow Pressure <u>22</u>	PSI (depth) _____	
(G) Final Shut-in Pressure <u>290</u>	PSI Initial Opening <u>15</u>	Test _____ <u>600</u>
(H) Final Hydrostatic Mud <u>1887</u>	PSI Initial Shut-in <u>15</u>	Jars _____
	Final Flow <u>15</u>	Safety Joint _____
	Final Shut-in <u>15</u>	Straddle _____

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Approved By Roger Welby

Our Representative _____

Extra Packer _____

Elect. Rec. _____

Other _____

TOTAL PRICE \$ 600

TRILOBITE TESTING L.L.C.

OPERATOR : Raney Oil Company DATE 06/14/96
 WELL NAME: Dinkel #12 KB 2243.00 ft TICKET NO: 9408 DST #3
 LOCATION : 3-14S-20W, Ellis Cty KS GR 2234.00 ft FORMATION: Arbuckle
 INTERVAL : 3826.00 To 3845.00 ft TD 3845.00 ft TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	AK-1	AK-1	AK-1			PF Fr. 0135 to 0205 hr
SI 30 Range(Psi)	4700.0	4700.0	3050.0	0.0	0.0	IS Fr. 0205 to 0235 hr
SF 30 Clock(hrs)	12	12	12			SF Fr. 0235 to 0305 hr
FS 30 Depth(ft)	3840.0	3840.0	3832.0	0.0	0.0	FS Fr. 0305 to 0335 hr

	Field	1	2	3	4	
A. Init Hydro	1794.0	1974.0	0.0	0.0	0.0	T STARTED 0028 hr
B. First Flow	49.0	44.0	0.0	0.0	0.0	T ON BOTM 0133 hr
B1. Final Flow	109.0	99.0	0.0	0.0	0.0	T OPEN 0135 hr
C. In Shut-in	1170.0	1161.0	0.0	0.0	0.0	T PULLED 0335 hr
D. Init Flow	121.0	121.0	0.0	0.0	0.0	T OUT 0508 hr
E. Final Flow	181.0	171.0	0.0	0.0	0.0	
F. Fl Shut-in	1159.0	1149.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1950.0	1932.0	0.0	0.0	0.0	Tool Wt. 1800.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 55000.00 lbs
						Initial Str Wt 50000.00 lbs
						Unseated Str Wt 52000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 3810.00 ft

RECOVERY

Tot Fluid 400.00 ft of 0.00 ft in DC and 400.00 ft in DP
 180.00 ft of Gas in pipe
 280.00 ft of Gassy oil - 20% gas, 80% oil
 120.00 ft of Heavy oil cut mud - 10% gas, 65% oil, 25% mud

SALINITY 0.00 P.P.M. A.P.I. Gravity 38.00

BLOW DESCRIPTION

Initial Flow -
 .75" blow building to bottom of bucket
 in 11 minutes

Initial Shutin -
 Surface blow building to .75"

Final Flow -
 .75" blow building to bottom of bucket
 in 12 minutes

Final Shutin -
 .5" blow

SAMPLES:
 SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.50 lb/c:
Vis.	47.00 S/L
W.L.	0.00 in ³
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	104.00 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	Paul Simpson
Co. Rep.	Roger Welty
Contr.	Duke
Rig #	4
Unit #	
Pump T.	

Test Successful: Y

CALCULATED RECOVERY ANALYSIS

DST 3

TICKET # 9408

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
DRILL PIPE 1	280	20	56	80	224	0	0	0	0
2	120	10	12	65	78	0	0	25	30
3			0		0	0	0		0
4			0		0	0	0		0
5			0		0	0	0		0
6			0		0	0	0		0
WEIGHT PIP 1			0		0	0	0		0
2			0		0	0	0		0
3			0		0	0	0		0
4			0		0	0	0		0
DRL COLLAR 1			0		0	0	0		0
2			0		0	0	0		0
3			0		0	0	0		0
4			0		0	0	0		0
5			0		0	0	0		0
TOTAL	400		68		302		0		30

HRS OPEN BBL/DAY

BBL OIL= 4.29444 * 1 103.06656
 BBL WATER= 0 * 0
 BBL MUD= 0.4266
 BBL GAS = 0.96696

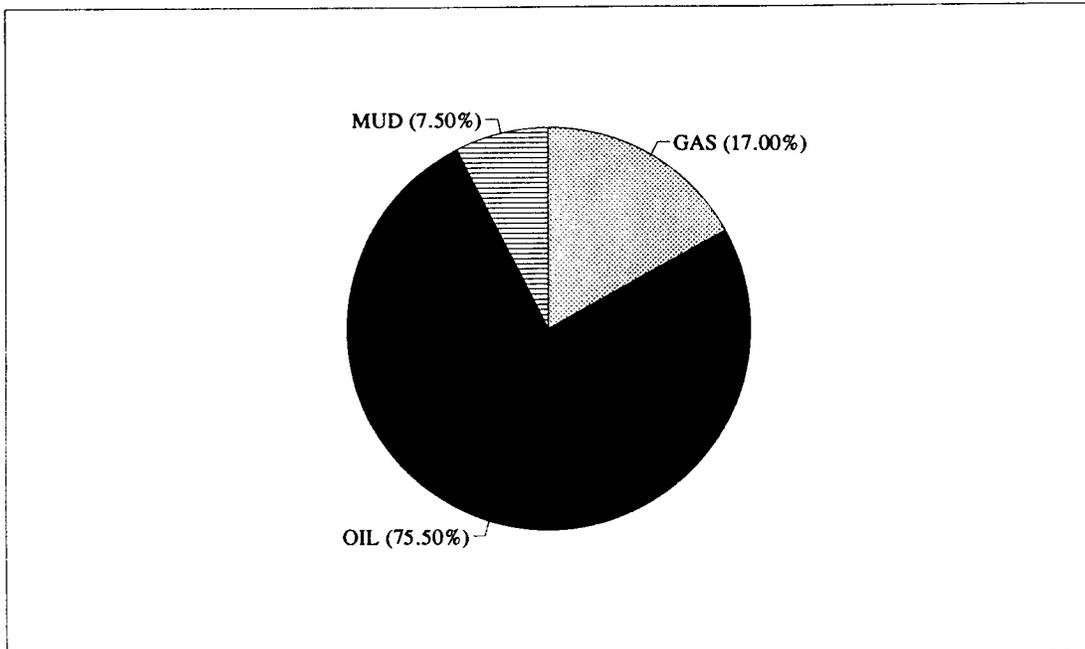
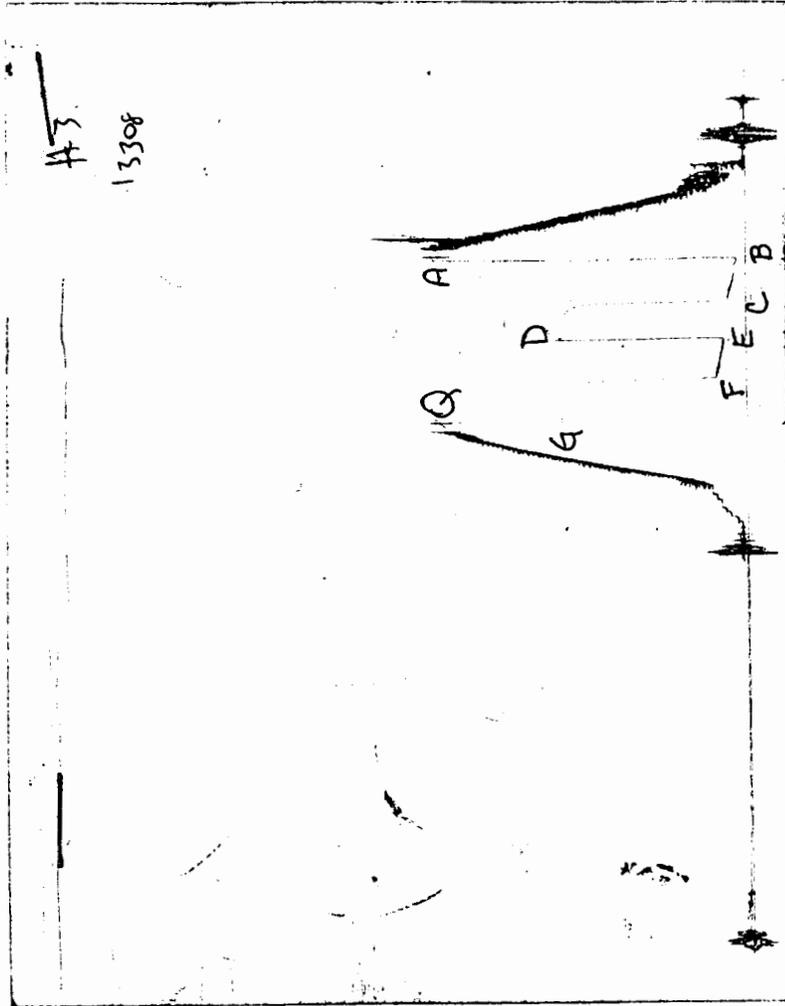


CHART PAGE



This is a photocopy of the actual AK-1 recorder chart

*** TOOL DIAGRAM *** CONV

WELL NAME: Dinkel #12

LOCATION : 3-14S-20W, Ellis Cty KS

TICKET No. 9408 D.S.T. No. 3 DATE 06/14/96

TOTAL TOOL TO BOTTOM OF TOP PACKERS 20

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 19

TOTAL TOOL 39

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 39

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands Single Total 3810

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3849

TOTAL DEPTH 3845

TOTAL DRILL PIPE ABOVE K.B. 4

REMARKS:

P.O. SUB	
C.O. SUB	3806
S.I. TOOL	3812
HMV	3817
JARS N/A	
SAFETY JOINT N/A	
PACKER	3821
PACKER	3826
DEPTH 3826	
STUBB	3827
ANCHOR	
AK-1 recorder	3832
perf	
T.C.	
DEPTH	
AK-1 recorder	3840
BULLNOSE 5' bull plug	
T.D.	3845

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 9408

Well Name & No. <u>Dinkel #12</u>	Test No. <u>3</u>	Date <u>6-14-96</u>
Company <u>Raney Oil Company</u>	Zone Tested <u>Arbuckle</u>	
Address _____	Elevation _____	KB _____ GL _____
Co. Rep / Geo. <u>Roger Welch</u>	Cont. <u>Duke #4</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>3</u>	Twp. <u>14s</u>	Rge. <u>20w</u> Co. <u>Ellis</u> State <u>Ks</u>
No. of Copies _____	Distribution Sheet (Y, N) _____	Turnkey (Y, N) <u>Y</u> Evaluation (Y, N) _____

Interval Tested <u>3826-3845</u>	Initial Str Wt./Lbs. <u>50,000</u>	Unseated Str Wt./Lbs. <u>52,000</u>
Anchor Length <u>19</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>55,000</u>
Top Packer Depth <u>3821</u>	Tool Weight <u>1800</u>	
Bottom Packer Depth <u>3826</u>	Hole Size — <u>7 7/8"</u>	Rubber Size — <u>6 3/4"</u>
Total Depth <u>3845</u>	Wt. Pipe Run _____	Drill Collar Run _____
Mud Wt. <u>9.5</u> LCM <u>4</u> Vis. <u>47</u> WL _____	Drill Pipe Size <u>4 1/2" IH</u>	Ft. Run <u>3810</u>
Blow Description <u>1/2" blow building to bottom of bucket in 11 minutes</u> <u>ISF - surface blow building to 3/4"</u> <u>85- 3/4" blow building to bottom of bucket in 12 minutes</u> <u>85I - 1/2" blow</u>		

Recovery — Total Feet <u>400</u>	GIP <u>180</u>	Ft. in DC _____	Ft. in DP <u>400</u>
Rec. <u>280</u>	Feet Of <u>9554 oil</u>	<u>20</u> %gas <u>80</u> %oil	%water _____ %mud _____
Rec. <u>120</u>	Feet Of <u>HOCM</u>	<u>10</u> %gas <u>65</u> %oil	%water <u>25</u> %mud _____
Rec. _____	Feet Of _____	%gas _____ %oil _____	%water _____ %mud _____
Rec. _____	Feet Of _____	%gas _____ %oil _____	%water _____ %mud _____
Rec. _____	Feet Of _____	%gas _____ %oil _____	%water _____ %mud _____

BHT 104 °F Gravity 40 °API @ 80 °F Corrected Gravity 38 °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

- (A) Initial Hydrostatic Mud 1974 PSI Recorder No. 24174 T-Started 0028
 - (B) First Initial Flow Pressure 49 PSI (depth) 3832 T-Open 0135
 - (C) First Final Flow Pressure 109 PSI Recorder No. 13308 T-Pulled 0335
 - (D) Initial Shut-in Pressure 1170 PSI (depth) 3840 T-Out 0508
 - (E) Second Initial Flow Pressure 121 PSI Recorder No. _____
 - (F) Second Final Flow Pressure 181 PSI (depth) _____
 - (G) Final Shut-in Pressure 1159 PSI Initial Opening 30 Test 600
 - (H) Final Hydrostatic Mud 1950 PSI Initial Shut-in 30 Jars _____
- Final Flow 30 Safety Joint _____
 Final Shut-in 30 Straddle _____
 _____ Circ. Sub _____
 _____ Sampler _____
 _____ Extra Packer _____
 _____ Elect. Rec. _____
 _____ Other _____

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF 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, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By Roger Welch
 Our Representative Tom Simpson

TOTAL PRICE \$ 600

TRILOBITE TESTING L.L.C.

OPERATOR : Raney Oil Company

DATE 06/14/96

WELL NAME: Dinkel #12

KB 2243.00 ft

TICKET NO: 9409

DST #4

LOCATION : 3-14S-20W, Ellis Cty KS

GR 2234.00 ft

FORMATION: Arbuckle

INTERVAL : 3846.00 To 3855.00 ft

TD 3855.00 ft

TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30	Rec. AK-1	AK-1				PF Fr. 1200 to 1230 hr
SI 30	Range(Psi)	4700.0	4700.0	0.0	0.0	IS Fr. 1230 to 1300 hr
SF 30	Clock(hrs)	12	12			SF Fr. 1300 to 1330 hr
FS 30	Depth(ft)	3850.0	3850.0	0.0	0.0	FS Fr. 1330 to 1400 hr

	Field	1	2	3	4	
A. Init Hydro	1986.0	1969.0	0.0	0.0	0.0	T STARTED 1058 hr
B. First Flow	48.0	46.0	0.0	0.0	0.0	T ON BOTM 1158 hr
B1. Final Flow	158.0	157.0	0.0	0.0	0.0	T OPEN 1200 hr
C. In Shut-in	1147.0	1140.0	0.0	0.0	0.0	T PULLED 1400 hr
D. Init Flow	181.0	183.0	0.0	0.0	0.0	T OUT 1550 hr
E. Final Flow	277.0	277.0	0.0	0.0	0.0	
F. Fl Shut-in	1135.0	1138.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1938.0	1926.0	0.0	0.0	0.0	Tool Wt. 1500.00 lbs
Inside/Outside						Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 0.00 lbs
						Initial Str Wt 50000.00 lbs
						Unseated Str Wt 0.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 3843.00 ft

RECOVERY

Tot Fluid 690.00 ft of 0.00 ft in DC and 690.00 ft in DP
 300.00 ft of Gas in pipe
 640.00 ft of Gassy oil - 20% gas, 80% oil
 50.00 ft of Slightly oil & water cut mud -
 10% oil, 40% water, 50% mud

RW @ 83.7 F

SALINITY 19500.00 P.P.M. A.P.I. Gravity 38.00

BLOW DESCRIPTION

Initial Flow -
 Strong, botton of bucket in 4 minutes

Initial Shutin -
 Surface blow building to 3"

Final Flow -
 Strong, bottom of bucket in 5 minutes

Final Shutin -
 Surface blow building to .75"

SAMPLES:

SENT TO:

MUD DATA-----	Chemical
Mud Type	
Weight	9.20 lb/c
Vis.	53.00 S/L
W.L.	10.00 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	106.00 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	Paul Simpson
Co. Rep.	Roger Welty
Contr.	Duke
Rig #	4
Unit #	
Pump T.	

Test Successful: Y

CALCULATED RECOVERY ANALYSIS

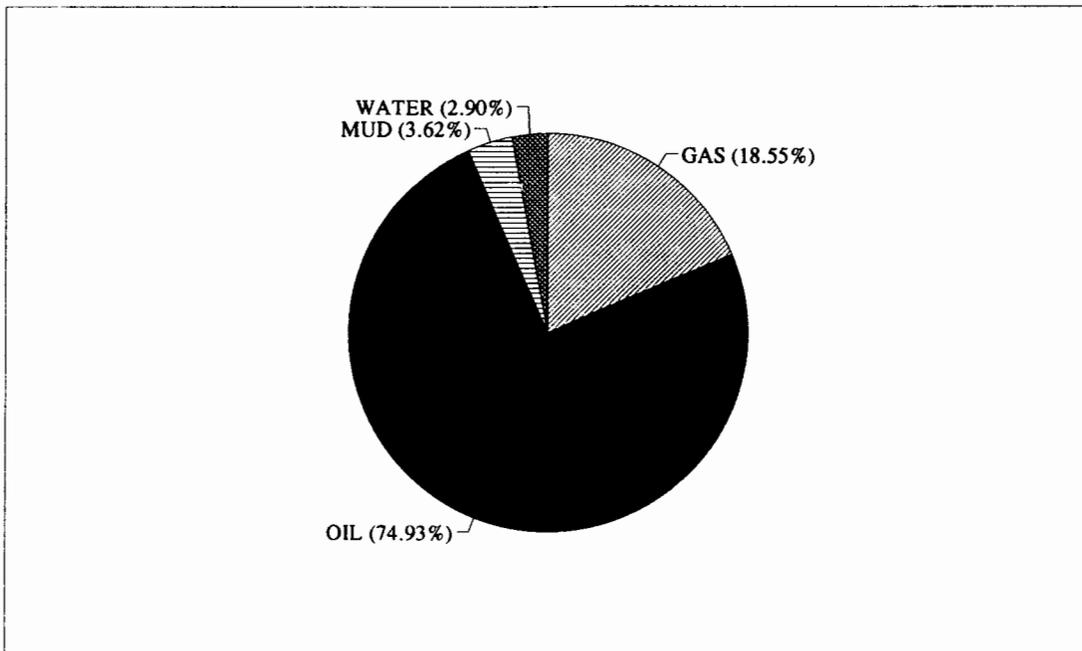
DST 4

TICKET # 9409

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
DRILL PIPE 1	640	20	128	80	512		0		0
2	50		0	10	5	40	20	50	25
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
6			0		0		0		0
WEIGHT PIP 1			0		0		0		0
2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
DRL COLLAR 1			0		0		0		0
2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
TOTAL	690		128		517		20		25

HRS OPEN BBL/DAY

BBL OIL= 7.35174 * 1 176.44176
 BBL WATER= 0.2844 * 6.8256
 BBL MUD= 0.3555
 BBL GAS = 1.82016



*** TOOL DIAGRAM *** CONV

WELL NAME: Dinkel #12

LOCATION : 3-14S-20W, Ellis Cty KS

TICKET No. 9409 D.S.T. No. 4 DATE 06/14/96

TOTAL TOOL TO BOTTOM OF TOP PACKERS 20

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 9

TOTAL TOOL 29

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 29

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands Single Total 3843

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3872

TOTAL DEPTH 3855

TOTAL DRILL PIPE ABOVE K.B. 17

REMARKS:

P.O. SUB	
C.O. SUB	3826
S.I. TOOL	3832
HMV	3837
JARS N/A	
SAFETY JOINT N/A	
PACKER	3841
PACKER	3846
DEPTH 3846	
STUBB	3847
ANCHOR	
perf	
AK-1 recorder	3850
T.C. DEPTH	
BULLNOSE 5' bull plug	
T.D.	3850

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 9409

Well Name & No. <u>Dinkel #12</u>	Test No. <u>9</u>	Date <u>6-14-96</u>
Company <u>Raney Oil Company</u>	Zone Tested <u>Arbuckle</u>	
Address <u>Roger Welby</u>	Elevation _____	KB _____ GL _____
Co. Rep / Geo. <u>Roger Welby</u>	Cont. <u>Duke #4</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>3</u>	Twp. <u>14s</u>	Rge. <u>20w</u> Co. <u>Ellis</u> State <u>Ks</u>
No. of Copies _____	Distribution Sheet (Y, N) _____	Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested <u>3846-3855</u>	Initial Str Wt./Lbs. <u>50,000</u>	Unseated Str Wt./Lbs. _____
Anchor Length <u>9</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. _____
Top Packer Depth <u>3841</u>	Tool Weight <u>1500</u>	
Bottom Packer Depth <u>3846</u>	Hole Size — <u>7 7/8"</u>	Rubber Size — <u>6 3/4"</u>
Total Depth <u>3855</u>	Wt. Pipe Run _____	Drill Collar Run _____
Mud Wt. <u>9.2</u> LCM _____	Vis. <u>53</u> WL <u>100</u>	Drill Pipe Size <u>4 1/2 X #</u> Ft. Run <u>3843</u>
Blow Description <u>strong - bottom of bucket in 4 minutes</u>		
<u>ISI - surface blow building to 3"</u>		
<u>FF - strong - bottom of bucket in 5 minutes</u>		
<u>FSI - surface blow building to 3 1/4"</u>		

Recovery — Total Feet <u>690</u>	GIP <u>300</u>	Ft. in DC _____	Ft. in DP <u>690</u>
Rec. <u>640</u> Feet Of <u>gassy oil</u>	<u>20</u> %gas <u>80</u> %oil	%water _____	%mud _____
Rec. <u>50</u> Feet Of <u>SI O & WCM</u>	%gas <u>10</u> %oil <u>40</u>	%water <u>50</u>	%mud _____
Rec. _____ Feet Of _____	%gas _____ %oil _____	%water _____	%mud _____
Rec. _____ Feet Of _____	%gas _____ %oil _____	%water _____	%mud _____
Rec. _____ Feet Of _____	%gas _____ %oil _____	%water _____	%mud _____

BHT 106 °F Gravity 40 °API @ 80 °F Corrected Gravity 38 °API

RW 3 @ 83.0 °F Chlorides 19,500 ppm Recovery Chlorides 4000 ppm System

(A) Initial Hydrostatic Mud <u>1986</u>	PSI Recorder No. <u>13308</u>	T-Started <u>1058</u>
(B) First Initial Flow Pressure <u>48</u>	PSI (depth) <u>3850</u>	T-Open <u>1200</u>
(C) First Final Flow Pressure <u>158</u>	PSI Recorder No. _____	T-Pulled <u>1400</u>
(D) Initial Shut-in Pressure <u>1147</u>	PSI (depth) _____	T-Out <u>1550</u>
(E) Second Initial Flow Pressure <u>181</u>	PSI Recorder No. _____	
(F) Second Final Flow Pressure <u>277</u>	PSI (depth) _____	
(G) Final Shut-in Pressure <u>1135</u>	PSI Initial Opening <u>30</u>	Test <u>1000</u>
(H) Final Hydrostatic Mud <u>1938</u>	PSI Initial Shut-in <u>30</u>	Jars _____

Final Flow 30 Safety Joint _____
Final Shut-in 30 Straddle _____

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Approved By Roger Welby
Our Representative Ray Simpson

Circ. Sub _____
Sampler _____
Extra Packer _____
Elect. Rec. _____
Other _____
TOTAL PRICE \$ 600

TRILOBITE TESTING L.L.C.

OPERATOR : Raney Oil Company
 WELL NAME: Dinkel #12
 LOCATION : 3-14S-20W, Ellis Cty KS
 INTERVAL : 3858.00 To 3865.00 ft

DATE 06/15/96
 KB 2243.00 ft TICKET NO: 9410 DST #5
 GR 2234.00 ft FORMATION: Arbuckle
 TD 3865.00 ft TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	AK-1	AK-1				PF Fr. 0002 to 0032 hr
SI 30 Range(Psi)	4700.0	4700.0	0.0	0.0	0.0	IS Fr. 0032 to 0102 hr
SF 30 Clock(hrs)	12	12				SF Fr. 0102 to 0132 hr
FS 30 Depth(ft)	3860.0	3860.0	0.0	0.0	0.0	FS Fr. 0132 to 0202 hr

	Field	1	2	3	4	
A. Init Hydro	1950.0	1943.0	0.0	0.0	0.0	T STARTED 2301 hr
B. First Flow	37.0	20.0	0.0	0.0	0.0	T ON BOTM 2400 hr
B1. Final Flow	121.0	114.0	0.0	0.0	0.0	T OPEN 0002 hr
C. In Shut-in	1194.0	1183.0	0.0	0.0	0.0	T PULLED 0202 hr
D. Init Flow	145.0	140.0	0.0	0.0	0.0	T OUT 0305 hr
E. Final Flow	181.0	207.0	0.0	0.0	0.0	
F. Fl Shut-in	1182.0	1175.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1938.0	1934.0	0.0	0.0	0.0	Tool Wt. 1200.00 lbs
Inside/Outside						Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 70000.00 lbs
						Initial Str Wt 50000.00 lbs
						Unseated Str Wt 52000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 3873.00 ft

RECOVERY

Tot Fluid 450.00 ft of 0.00 ft in DC and 450.00 ft in DP
 120.00 ft of Gas in pipe
 90.00 ft of Gassy oil - 20% gas, 80% oil
 360.00 ft of Slightly muddy oil specked water -
 85% water, 15% mud

RW .19 @ 67 F

SALINITY 42000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow -
 .75" blow building to bntottom of
 bucket in 12 minutes

Initial Shutin -
 Surface blow building to 1"

Final Flow -
 .75" blow building to bottom of
 bucket in 15 minutes

Final Shutin -
 Surface blow building to .25"

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.40 lb/c:
Vis.	47.00 S/L
W.L.	0.00 in3
F.C.	0.00 in
Mud Drop	

Amt. of fill 0.00 ft
 Btm. H. Temp. 106.00 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 Paul Simpson
 Co. Rep. Roger Welty
 Contr. Duke
 Rig # 4
 Unit #
 Pump T.

Test Successful: Y

CALCULATED RECOVERY ANALYSIS

DST 5

TICKET # 9410

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
DRILL PIPE 1	90	20	18	80	72		0		0
2	360		0		0	85	306	15	54
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
6			0		0		0		0
WEIGHT PIP 1			0		0		0		0
2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
DRL COLLAR 1			0		0		0		0
2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
TOTAL	450		18		72		306		54

HRS OPEN BBL/DAY

BBL OIL= 1.02384 * 1 24.57216
 BBL WATER= 4.35132 * 104.43168
 BBL MUD= 0.76788
 BBL GAS = 0.25596

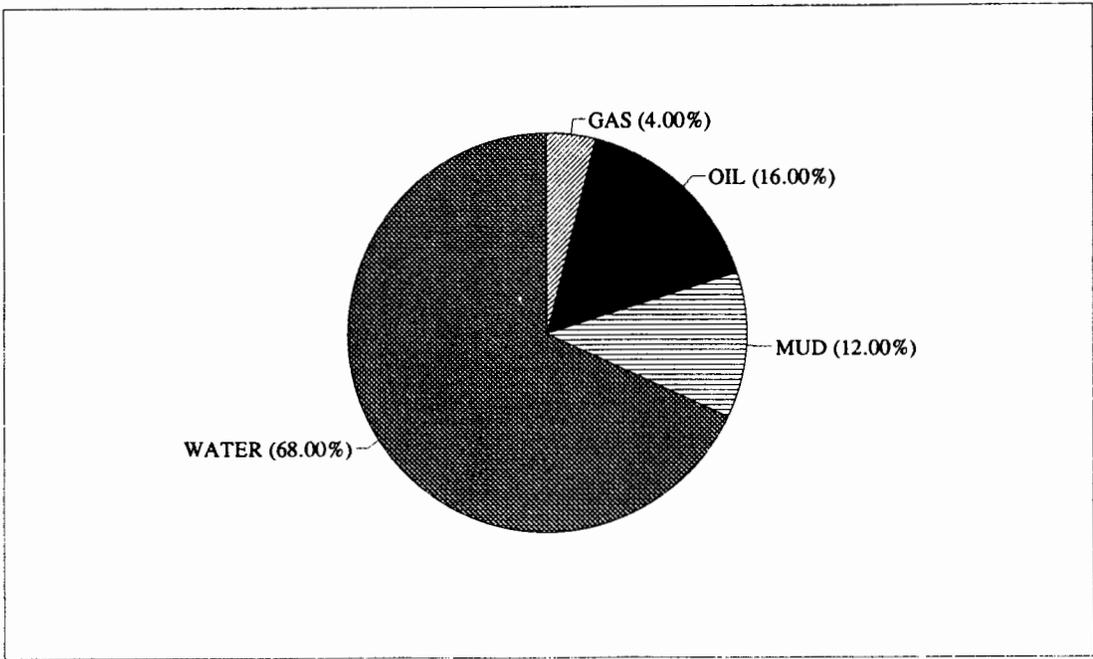
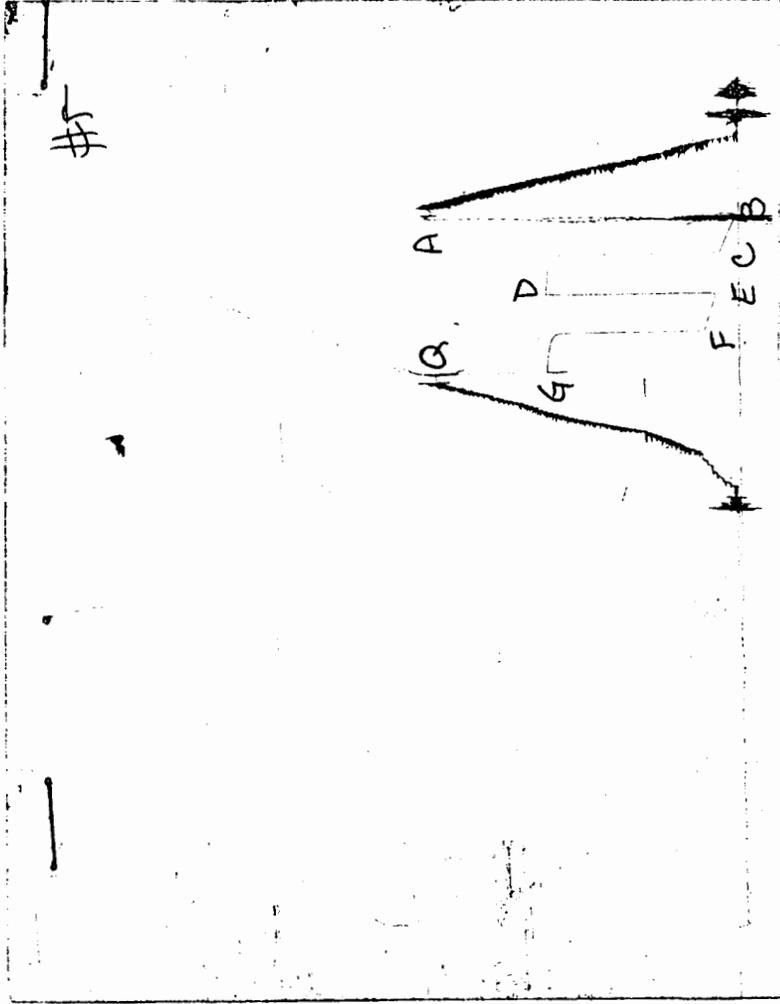


CHART PAGE



This is a photocopy of the actual AK-1 recorder chart

*** TOOL DIAGRAM *** CONV

WELL NAME: Dinkel #12	P.O. SUB	
	C.O. SUB	3838
LOCATION : 3-14S-20W, Ellis Cty KS	S.I. TOOL	3844
TICKET No. 9410 D.S.T. No. 5 DATE 06/15/96		
TOTAL TOOL TO BOTTOM OF TOP PACKERS 20	HMV	3849
INTERVAL TOOL		
BOTTOM PACKERS AND ANCHOR 7	JARS N/A	
TOTAL TOOL 27		
DRILL COLLAR ANCHOR IN INTERVAL		
D.C. ANCHOR STND.Stands Single Total	SAFETY JOINT N/A	
D.P. ANCHOR STND.Stands Single Total		
TOTAL ASSEMBLY 27	PACKER	3853
D.C. ABOVE TOOLS.Stands Single Total	PACKER	3858
D.P. ABOVE TOOLS.Stands Single Total 3873	DEPTH 3858	
TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3900	STUBB	3859
	ANCHOR	
	perf	
TOTAL DEPTH 3865		
TOTAL DRILL PIPE ABOVE K.B. 35		
REMARKS:	AK-1 recorder	3860
	T.C.	
	DEPTH	
	BULLNOSE 5' bull plug	
	T.D.	3865

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 9410

Well Name & No. Dinkel #12 Test No. 5 Date 6-15-96
Company Kamy Oil Company Zone Tested Arbuckle
Address _____ Elevation _____ KB _____ GL _____
Co. Rep / Geo. Roger Walty Cont. Duke #4 Est. Ft. of Pay _____ Por. _____ %
Location: Sec. 3 Twp. 14s Rge. 20w Co. Ellis State Ks
No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3858-3865 Initial Str Wt./Lbs. 5000 Unseated Str Wt./Lbs. 52,000
Anchor Length 7 Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 50,000
Top Packer Depth 3858 - single Tool Weight 1200
Bottom Packer Depth _____ Hole Size — 7 7/8" Rubber Size — 6 3/4"
Total Depth _____ Wt. Pipe Run _____ Drill Collar Run _____
Mud Wt. 9.4 LCM _____ Vis. 47 WL _____ Drill Pipe Size 4 1/2 x 1 1/4 Ft. Run 3873

Blow Description 3/4" blow building to bottom of bucket in 12
minutes ISI - surface blow building to 1"
FF - 3/4" blow building to bottom of bucket in 15
minutes FSI - surface blow building to 1/2"

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
Rec. <u>90</u>	<u>120</u>		
Feet Of <u>9955 oil</u>		<u>20% gas 80% oil</u>	<u>% water % mud</u>
Rec. <u>360</u>		<u>% gas 1% oil 85% water 15% mud</u>	
Feet Of <u>sl muddy oil speckled</u>		<u>% gas % oil % water % mud</u>	
Rec. _____		<u>water</u>	
Feet Of _____			
Rec. _____			
Feet Of _____			

BHT 106 °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API
RW .19 @ 67 °F Chlorides 42,000 ppm Recovery Chlorides 3500 ppm System

(A) Initial Hydrostatic Mud 1950 PSI Recorder No. 13308 T-Started 2301
(B) First Initial Flow Pressure 37 PSI (depth) 3860 T-Open 0002
(C) First Final Flow Pressure 121 PSI Recorder No. _____ T-Pulled 0202
(D) Initial Shut-in Pressure 1194 PSI (depth) _____ T-Out 0305
(E) Second Initial Flow Pressure 145 PSI Recorder No. _____
(F) Second Final Flow Pressure 181 PSI (depth) _____
(G) Final Shut-in Pressure 1182 PSI Initial Opening 30 Test 600
(H) Final Hydrostatic Mud 1938 PSI Initial Shut-in 30 Jars _____

Final Flow 30 Safety Joint _____
Final Shut-in 30 Straddle _____
Circ. Sub _____
Sampler _____

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Approved By Roger Walty
Our Representative Paul Simpson

Extra Packer _____
Elect. Rec. _____
Other _____
TOTAL PRICE \$ 600