

# Formation Testing Service Report

MC LEAN  
Lease Name

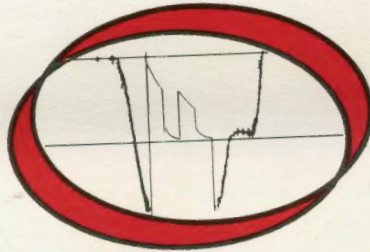
1  
Well No.

1  
Test No.

3311-3335'  
Tested Interval

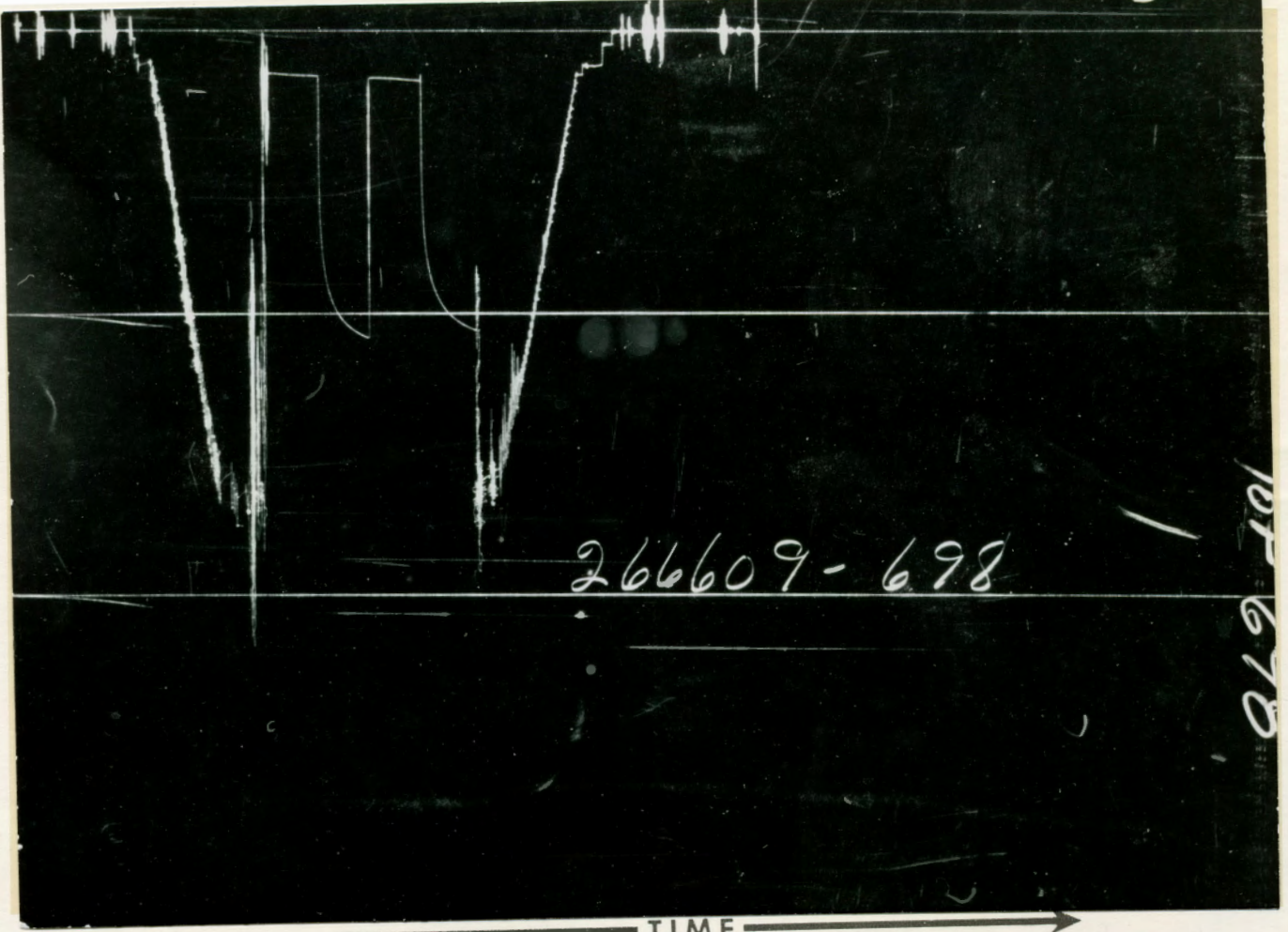
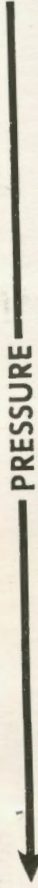
RUPE OIL COMPANY  
Lease Owner/Company Name

REC'D AUG 23 1977



**HALLIBURTON SERVICES**  
DUNCAN, OKLAHOMA

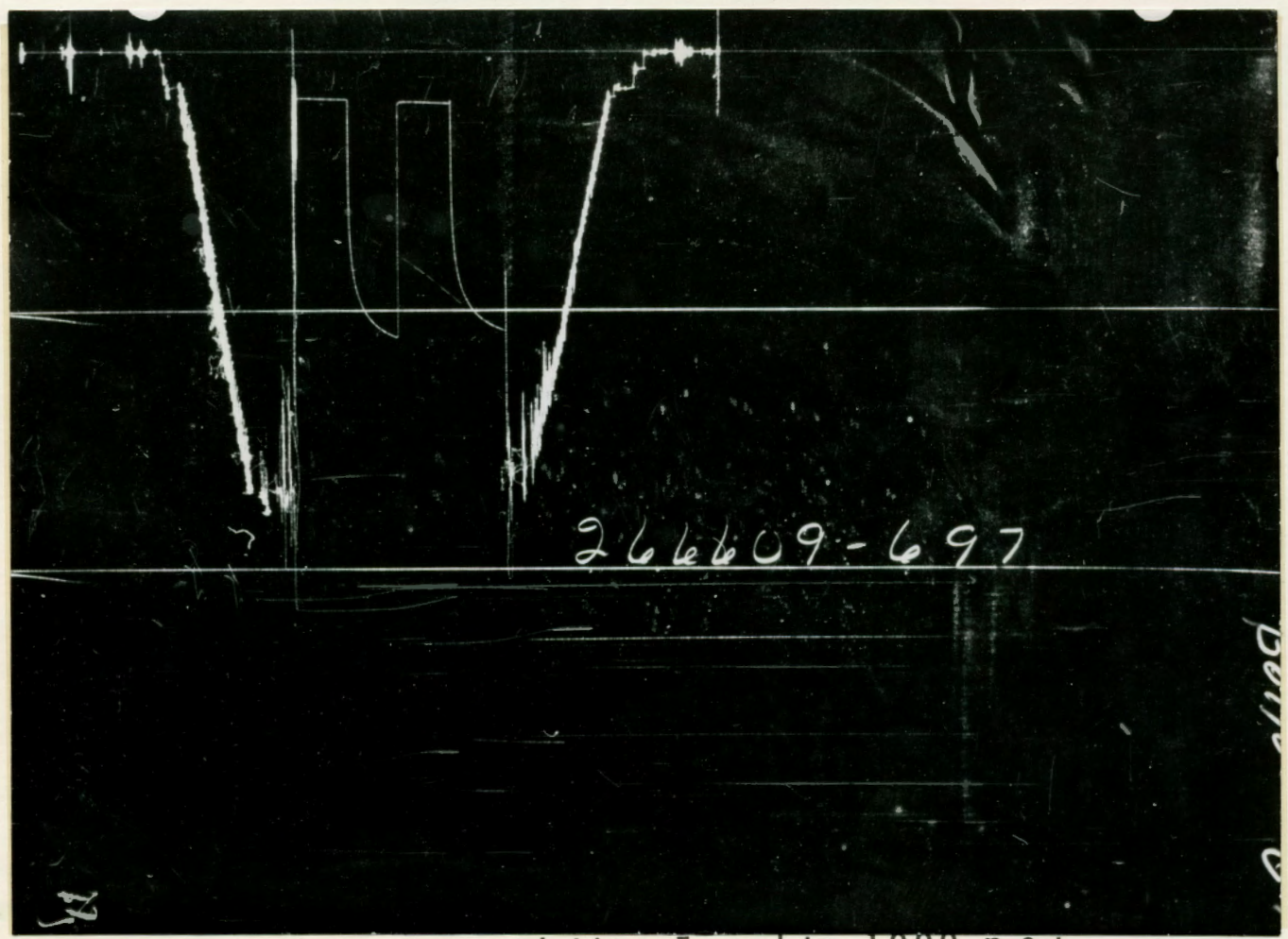
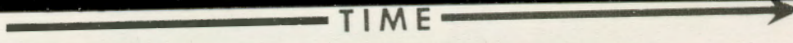
PRESSURE



266609-698

266609-698

TIME



266609-697

266609-697

Each Horizontal Line Equal to 1000 p.s.i.





Gauge No. 698			Depth 3293'			Clock No. 14285			12 hour			Ticket No. 266609					
First Flow Period			First Closed In Pressure			Second Flow Period			Second Closed In Pressure			Third Flow Period			Third Closed In Pressure		
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.		
0	.000	150	.000		160	.000	171	.000		177							
1	.0275	151**	.0137		751*	.0337	166	.0277		826**							
2	.0618	153	.0343		893	.0673	168	.0486		903							
3	.0961	155	.0549		947	.1010	169	.0694		949							
4	.1304	157	.0755		995	.1347	171	.0902		978							
5	.1647	159	.0961		1022	.1684	174	.1110		1000							
6	.1990	160	.1167		1040	.2020	177	.1318		1017							
7			.1373		1057			.1526		1029							
8			.1579		1067			.1734		1041							
9			.1784		1077			.1942		1051							
10			.1990		1084			.2150		1058							
11																	
12																	
13																	
14																	
15																	

Gauge No. 697			Depth 3331'			Clock No. 3004			hour 12		
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	
0	.000	181	.000		184	.000	207	.000		200	
1	.199	184	.0135		785*	.205	200	.0275		857**	
2			.0336		914			.0481		930	
3			.0538		975			.0687		972	
4			.0740		1014			.0893		1000	
5			.0941		1039			.1099		1020	
6			.1143		1058			.1305		1036	
7			.1345		1073			.1511		1049	
8			.1546		1086			.1718		1060	
9			.1748		1095			.1924		1068	
10			.1950		1102			.2130		1075	
11											
12											
13											
14											
15											

Reading Interval 5 3 5 Minutes

REMARKS: \*-2 minutes \*\*-4 minutes



	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing .....				
Reversing Sub .....	6.00"	2.00"	1'	
Water Cushion Valve .....	6.00"			
Drill Pipe .....	4.50"	3.826"	3023.69'	
Drill Collars .....	6.00"	2.25"	247.31'	
Handling Sub & Choke Assembly .....	5.75"	2.00"	5'	
Dual CIP Valve .....	5.00"	.87"	5'	3284'
Dual CIP Sampler .....				
Hydro-Spring Tester .....	5.00"	.75"	5'	3289'
	Change over	2.00"	1'	
Multiple CIP Sampler .....	6.00"	2.00"	1' Change over	
Extension Joint .....				
AP Running Case .....	5.00"	3.06"	4'	3293'
Hydraulic Jar .....	5.00"	1.50"	5'	
VR Safety Joint .....	5.00"	1.00"	3'	
Pressure Equalizing Crossover .....				
Packer Assembly .....	6.75'	1.53"	6'	3305'
Distributor .....				
Packer Assembly .....	6.75"	1.53"	6'	3311'
Flush Joint Anchor .....	5.00"	2.37"	16'	
Pressure Equalizing Tube .....	5.00"	2.00"	2'	HT-500
Blanked-Off B.T. Running Case .....	5.00"	2.44"	4'	3331'
Drill Collars .....				
Anchor Pipe Safety Joint .....				
Packer Assembly .....				
Distributor .....				
Packer Assembly .....				
Anchor Pipe Safety Joint .....				
Side Wall Anchor .....				
Drill Collars .....				
Flush Joint Anchor .....				
Blanked-Off B.T. Running Case .....				
Total Depth .....				3335'

# TEMPERATURE RECORDER CHART



10° each circle

$OF_4$	= Theoretical Open Flow Potential with/Damage Removed Min. . . . .	MCF/D
$P_s$	= Extrapolated Static Pressure . . . . .	Psig.
$P_f$	= Final Flow Pressure . . . . .	Psig.
$P_{or}$	= Potentiometric Surface (Fresh Water *) . . . . .	Feet
$Q$	= Average Adjusted Production Rate During Test . . . . .	bbls/day
$Q_1$	= Theoretical Production w/Damage Removed . . . . .	bbls/day
$Q_g$	= Measured Gas Production Rate . . . . .	MCF/D
$R$	= Corrected Recovery . . . . .	bbls
$r_w$	= Radius of Well Bore . . . . .	Feet
$t$	= Flow Time . . . . .	Minutes
$t_o$	= Total Flow Time . . . . .	Minutes
$T$	= Temperature Rankine . . . . .	°R
$Z$	= Compressibility Factor . . . . .	—
$\mu$	= Viscosity Gas or Liquid . . . . .	CP
<b>Log</b>	= Common Log	

\* Potentiometric Surface Reference to Rotary Table When Elevation Not Given,  
Fresh Water Corrected to 100° F.

# D.S.T. Report Distribution



A Division of Halliburton Company

FORM 1509R3

DUNCAN, OKLAHOMA 73533

RAPE OIL CO.

Company Name - - Lease Owner

Requested Distribution of Completed D.S.T. Report Folder  
for Ticket No. 266609

(This Order Must Be Filled Out and Signed By Company Representative)

Company RAPE OIL CO.  
Orig. Chart

5

& Reports

ATT.

P.O. BOX  
STREET & NO.  
BUILDING

Box 2273

CITY  
STATE

WICHITA KANSAS

ZIP CODE NUMBER

67202

Company



ATT.

P.O. BOX  
STREET & NO.  
BUILDING

Reports

CITY  
STATE

ZIP CODE NUMBER

Company



ATT.

P.O. BOX  
STREET & NO.  
BUILDING

Reports

CITY  
STATE

ZIP CODE NUMBER

Company



ATT.

P.O. BOX  
STREET & NO.  
BUILDING

Reports

CITY  
STATE

ZIP CODE NUMBER

Company



ATT.

P.O. BOX  
STREET & NO.  
BUILDING

Reports

CITY  
STATE

ZIP CODE NUMBER

Owner - Operator - or His Agent

SIGNED

James R. Satter

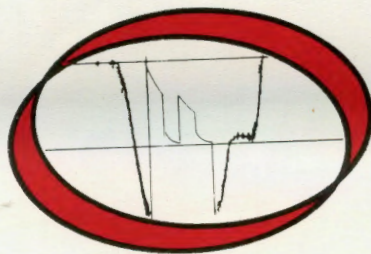
, Agent

Send 1st, 2nd and 3rd Copy with Charts

(Use Additional Sheets When Necessary)

# Formation Testing Service Report

REC'D AUG 31 1977



MC LEAN

Lease Name

1  
Well No.

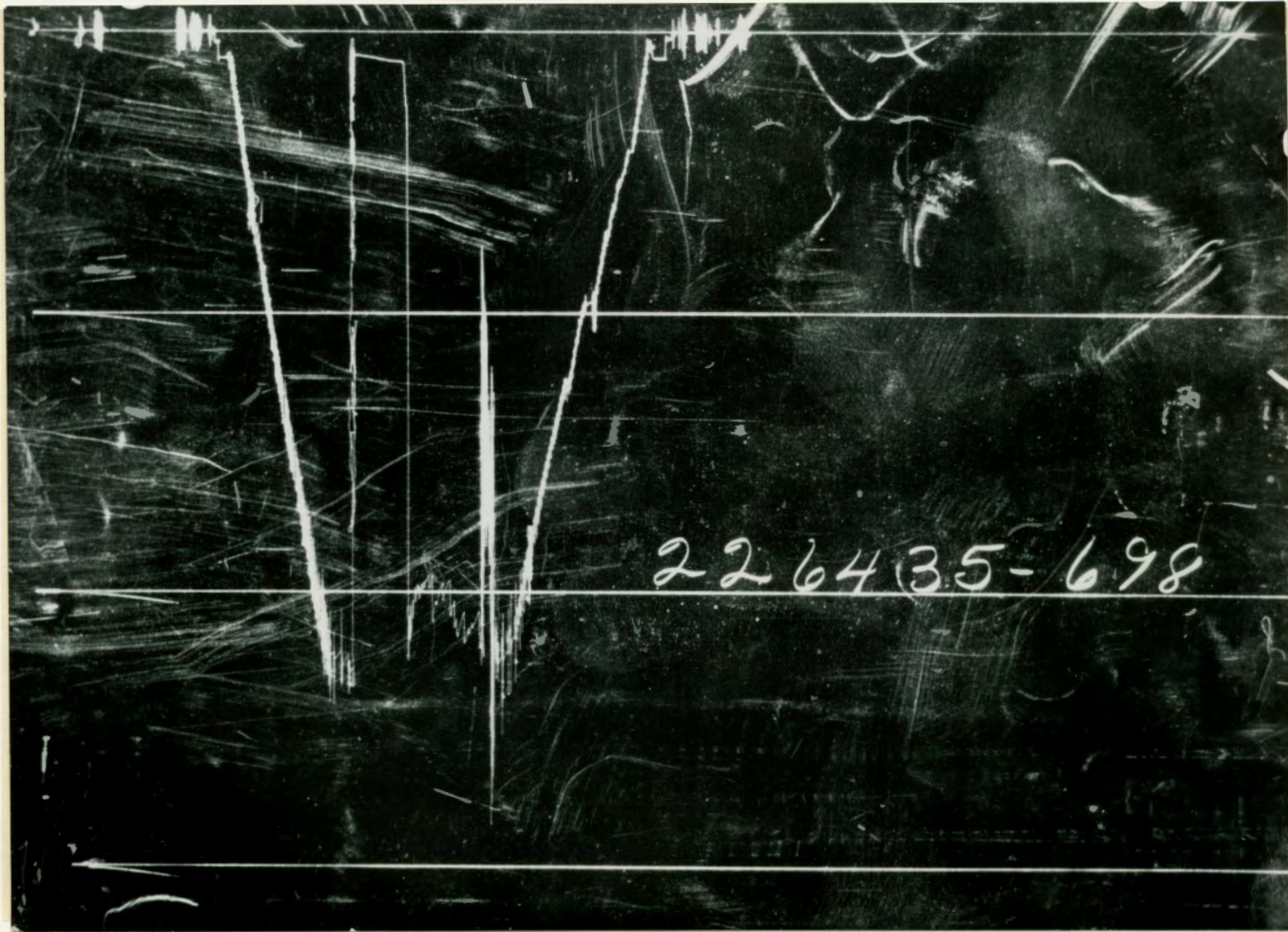
2  
Test No.

4643-4705'

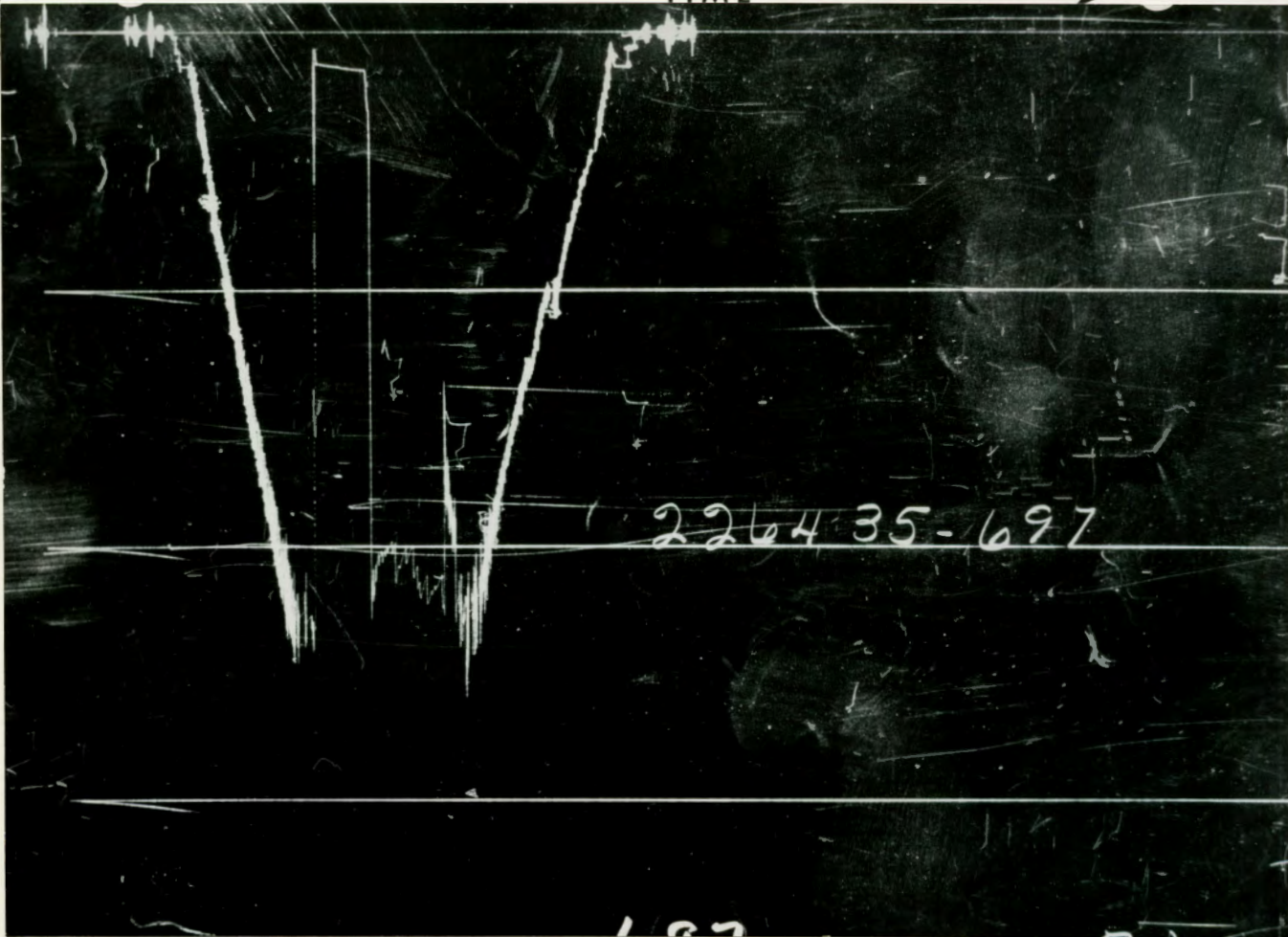
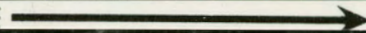
RUPE OIL COMPANY INCORPORATED

**HALLIBURTON SERVICES**  
DUNCAN, OKLAHOMA

PRESSURE



TIME



Each Horizontal Line Equal to 1000 p.s.i.







	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Reversing Sub	5 3/4"	2 3/4'	1'	
Water Cushion Valve				
Drill Pipe	4 1/2"	3.826"	4358'	
Drill Collars	6"	2.25"	247'	
Handling Sub & Choke Assembly	5 3/4'	3 3/4"	5'	
Dual CIP Valve	5"	.87"	5'	4615'
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	5'	4620'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	4'	4622'
Hydraulic Jar	5"	1.75"	5'	
VR Safety Joint	5"	1"	3'	
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1.53"	6'	4637'
Distributor				
Packer Assembly	6 3/4'	1.53"	6'	4643'
Flush Joint Anchor	5"	2.37"	6'	
Pressure Equalizing Tube	6"	2.25"	1' Change over sub	
Blanked-Off B.T. Running Case				
Drill Collars	6"	2.25"	29'	
Anchor Pipe Safety Joint	6"	2.25"	1' Double Pin sub	
	6"	2.25"	1' Change over sub	
Packer Assembly				
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor	5"	2.37"	16' Flush joint anchor	
Drill Collars				
HT-500 TEMP. RECORDER	5"	2.44"	2'	4700'
Flush Joint Anchor				
Blanked-Off B.T. Running Case	5"	2.44"	4'	4702'
Total Depth				4705'

# TEMPERATURE RECORDER CHART



10° each circle

- OF<sub>4</sub> = Theoretical Open Flow Potential with/Damage Removed ..... Psig.
- P<sub>s</sub> = Extrapolated Static Pressure ..... Psig.
- P<sub>f</sub> = Final Flow Pressure ..... Feet
- P<sub>or</sub> = Potentiometric Surface (Fresh Water \*) ..... bbls/day
- Q = Average Adjusted Production Rate During Test ..... bbls/day
- Q<sub>1</sub> = Theoretical Production w/Damage Removed ..... MCF/D
- Q<sub>g</sub> = Measured Gas Production Rate ..... bbls
- R = Corrected Recovery ..... Feet
- r<sub>w</sub> = Radius of Well Bore ..... Minutes
- t = Flow Time ..... Minutes
- t<sub>o</sub> = Total Flow Time ..... °R
- T = Temperature Rankine ..... CP
- Z = Compressibility Factor ..... CP
- μ = Viscosity Gas or Liquid ..... CP
- Log = Common Log

\* Potentiometric Surface Reference to Rotary Table When Elevation Not Given,  
Fresh Water Corrected to 100° F.



A Division of Halliburton Company

FORM 1509R3

DUNCAN, OKLAHOMA 73533

Rupe Oil Co Inc

Company Name - - Lease Owner

Requested Distribution of Completed D.S.T. Report Folder  
for Ticket No. 226435

(This Order Must Be Filled Out and Signed By Company Representative)

Company Rupe Oil Co Inc  
Orig. Chart

5

& Reports

ATT.

P.O. BOX  
STREET & NO. Box 2273 434 Ohio  
BUILDING  
CITY STATE Wichita Kansas  
ZIP CODE NUMBER 67202

Company \_\_\_\_\_



Reports

ATT.

P.O. BOX  
STREET & NO.  
BUILDING  
CITY STATE \_\_\_\_\_  
ZIP CODE NUMBER \_\_\_\_\_

Company \_\_\_\_\_



Reports

ATT.

P.O. BOX  
STREET & NO.  
BUILDING  
CITY STATE \_\_\_\_\_  
ZIP CODE NUMBER \_\_\_\_\_

Company \_\_\_\_\_



Reports

ATT.

P.O. BOX  
STREET & NO.  
BUILDING  
CITY STATE \_\_\_\_\_  
ZIP CODE NUMBER \_\_\_\_\_

Company \_\_\_\_\_



Reports

ATT.

P.O. BOX  
STREET & NO.  
BUILDING  
CITY STATE \_\_\_\_\_  
ZIP CODE NUMBER \_\_\_\_\_

Owner - Operator - or His Agent

SIGNED Amos R. Satter, Agent

Send 1st, 2nd and 3rd Copy with Charts

(Use Additional Sheets When Necessary)

# Formation Testing Service Report

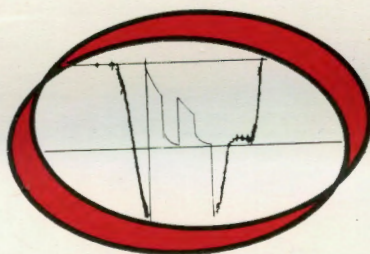
MCLEAN  
Lester Norris

Well No. 1

Test No. 3

4636' to 4705'

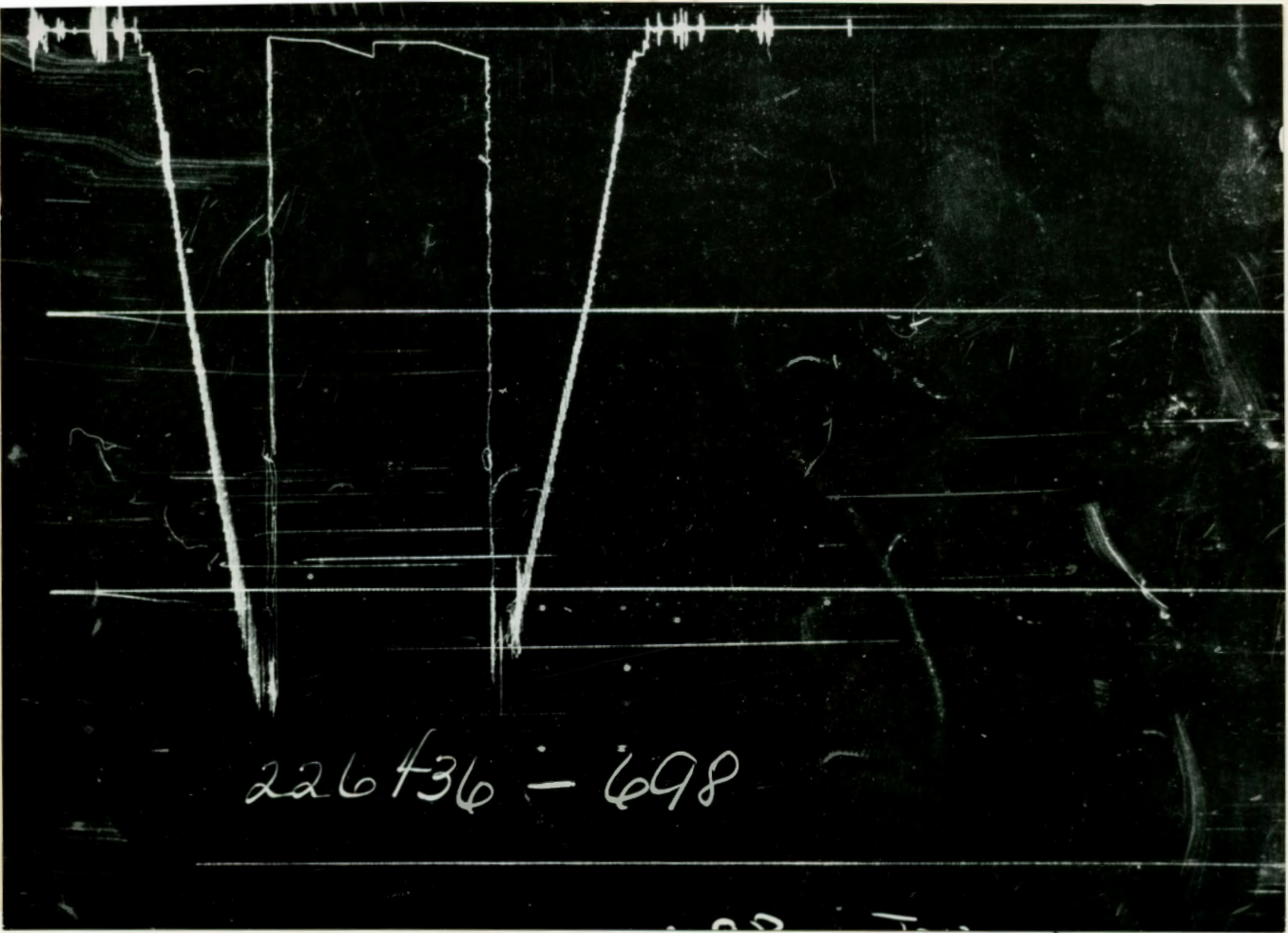
RUPE OIL COMPANY, INCORPORATED



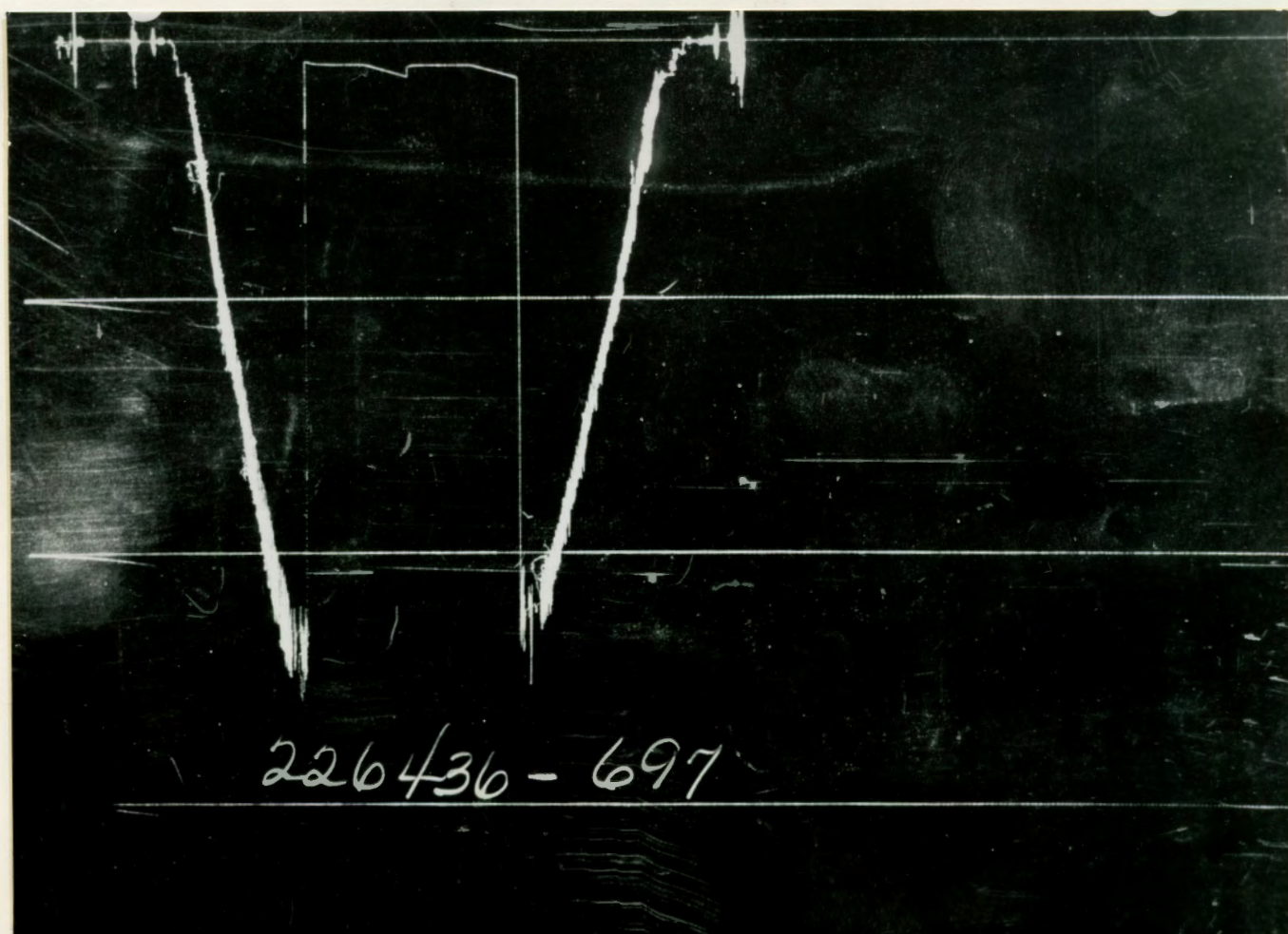
REC'D AUG 31 1977

**HALLIBURTON SERVICES**

DUNCAN, OKLAHOMA



226436-698



226436-697

Each Horizontal Line Equal to 1000 p.s.i.

FLUID SAMPLE DATA				Date		Ticket Number	
Sampler Pressure _____ P.S.I.G. at Surface				8-18-77		226436	
Recovery: Cu. Ft. Gas _____				Kind of Job		Holliburton District	
cc. Oil _____				OPEN HOLE		PRATT	
cc. Water _____				Tester		Witness	
cc. Mud _____				MR. PARKER		MR. SATTER	
Tot. Liquid cc. _____				Drilling Contractor			
Gravity _____ ° API @ _____ °F.				GABBERT-JONES DRILLING COMPANY BJ			
Gas/Oil Ratio _____ cu. ft./bbl.				EQUIPMENT & HOLE DATA			
RESISTIVITY _____ CHLORIDE CONTENT _____				Formation Tested			
Recovery Water @ _____ °F. _____ ppm				Mississippi			
Recovery Mud @ _____ °F. _____ ppm				Elevation			
Recovery Mud Filtrate @ _____ °F. _____ ppm				2195' _____ Ft.			
Mud Pit Sample @ _____ °F. _____ ppm				Net Productive Interval			
Mud Pit Sample Filtrate @ _____ °F. _____ ppm				6' _____ Ft.			
Mud Weight 9.2 vis 40 sec				All Depths Measured From			
				Kelly Bushing			
				Total Depth			
				4705' _____ Ft.			
				Main Hole/Casing Size			
				7 7/8"			
				Drill Collar Length			
				247' _____ I.D. 2.25"			
				Drill Pipe Length			
				4351' _____ I.D. 3.826"			
				Packer Depth(s)			
				4630' _____ 4636' _____ Ft.			
				Depth Tester Valve			
				4613' _____ Ft.			
Cushion		TYPE	AMOUNT	Depth Back Pres. Valve	Surface Choke	Bottom Choke	
					1/4"	3/4"	
Recovered		65' Feet of drilling mud.		Mea. From Tester Valve			
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Remarks SEE PRODUCTION TEST DATA SHEET....							
TEMPERATURE		Gauge No. 698	Gauge No. 697	Gauge No.	TIME		
Depth:		4615 Ft.	4702 Ft.	Depth:	Ft.		
12 Hour Clock		12 Hour Clock		Hour Clock		Tool	
Blanked Off NO		Blanked Off YES		Blanked Off		Opened 3:25 P.M.	
Est. 4700 °F.		Actual 153 °F.		Pressures		Opened A.M.	
						Bypass 7:30 P.M.	
		Field	Office	Field	Office	Field	Office
Initial Hydrostatic			2266	2287	2328	Reported	Computed
						Minutes	Minutes
First Period	Flow Initial		28	80	82		
	Flow Final		41	90	93		
Closed in			100	120	141	30	
Second Period	Flow Initial		49	100	95		
	Flow Final		49	100	95	35	
	Closed in		105	140	145	30	
Third Period	Flow Initial						
	Flow Final						
Closed in							
Final Hydrostatic			2227	2216	2282		

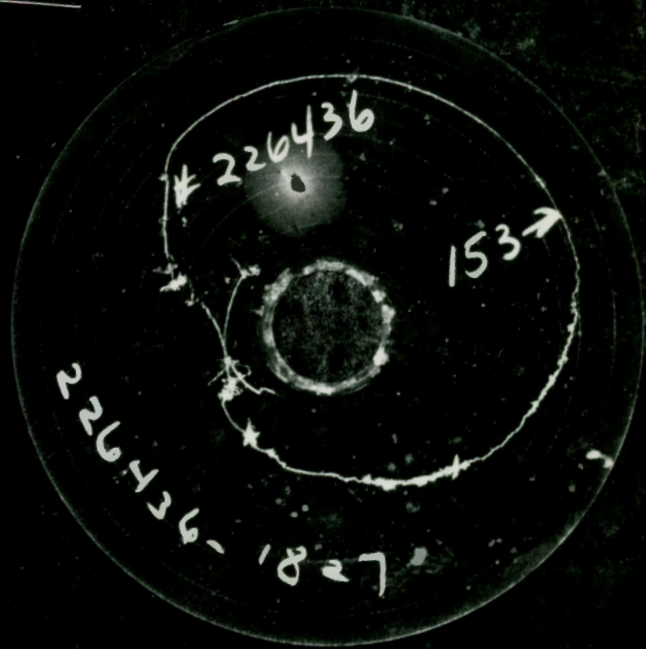
Legal Location Sec. - Top. - Rng. 8 26 18  
 Lease Name MCLLEAN  
 Well No. 3  
 Test No. 3  
 Tested Interval 4636' to 4705'  
 County EDWARDS  
 State KANSAS

RUPE OIL COMPANY, INCORPORATED  
 Lease Owner/Company Name



	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Reversing Sub	5.75"	2.75"	1'	
Water Cushion Valve				
Drill Pipe	4.50"	3.826"	4351'	
Drill Collars	6"	2.25"	247'	
Handling Sub & Choke Assembly	5.75"	3.75"	5'	
Dual CIP Valve	5"	.87"	5'	4608'
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	5'	4613'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	4'	4615'
Hydraulic Jar	5"	1.75"	5'	
VR Safety Joint	5"	1"	3'	
Pressure Equalizing Crossover				
Packer Assembly	6.75"	1.53"	6'	4630'
Distributor				
Packer Assembly	6.75"	1.53"	6'	4636'
Flush Joint Anchor	5"	2.37"	13'	
Pressure Equalizing Tube CHANGE OVER SUB	6"	2.25"	1'	
Blanked-Off B.T. Running Case				
Drill Collars	6"	2.25"	29'	
Anchor Pipe Safety Joint DOUBLE PIN SUB	6"	2.25"	1'	
Packer Assembly CHANGE OVER SUB	6"	2.25"	1'	
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor FLUSH JOINT ANCHOR	5"	2.37"	16'	
Drill Collars				
Flush Joint Anchor HT 500 TEMP. REC.	5"	2.44"	2'	4700'
Blanked-Off B.T. Running Case	5"	2.44"	4'	4702'
Total Depth				4705'

# TEMPERATURE RECORDER CHART



10° each circle

$OF_4$	= Theoretical Open Flow Potential with Damage	.....	Psig.
$P_s$	= Extrapolated Static Pressure	.....	Psig.
$P_f$	= Final Flow Pressure	.....	Feet
$P_{ot}$	= Potentiometric Surface (Fresh Water*)	.....	bbls/day
$Q$	= Average Adjusted Production Rate During Test	.....	bbls/day
$Q_1$	= Theoretical Production w/Damage Removed	.....	MCF/D
$Q_g$	= Measured Gas Production Rate	.....	bbls
$R$	= Corrected Recovery	.....	Feet
$r_w$	= Radius of Well Bore	.....	Minutes
$t$	= Flow Time	.....	Minutes
$t_o$	= Total Flow Time	.....	°R
$T$	= Temperature Rankine	.....	CP
$Z$	= Compressibility Factor	.....	
$\mu$	= Viscosity Gas or Liquid	.....	
Log	= Common Log		

\* Potentiometric Surface Reference to Rotary Table When Elevation Not Given,  
Fresh Water Corrected to 100° F.

D.S.T. Report Distribution



A Division of Halliburton Company

FORM 1509R3

DUNCAN, OKLAHOMA 73533

Rupe Oil Co Inc

Company Name - - Lease Owner

Requested Distribution of Completed D.S.T. Report Folder  
for Ticket No. 226436

(This Order Must Be Filled Out and Signed By Company Representative)

Company Rupe Oil Co Inc  
Orig. Chart

**5**  
& Reports

ATT.

P.O. BOX Box 2273 4340410  
STREET & NO. BUILDING  
CITY Wichita Kansas  
STATE  
ZIP CODE NUMBER 67202

Company \_\_\_\_\_



ATT.

P.O. BOX  
STREET & NO.  
BUILDING  
CITY  
STATE  
ZIP CODE NUMBER

Reports

Company \_\_\_\_\_



ATT.

P.O. BOX  
STREET & NO.  
BUILDING  
CITY  
STATE  
ZIP CODE NUMBER

Reports

Company \_\_\_\_\_



ATT.

P.O. BOX  
STREET & NO.  
BUILDING  
CITY  
STATE  
ZIP CODE NUMBER

Reports

Company \_\_\_\_\_



ATT.

P.O. BOX  
STREET & NO.  
BUILDING  
CITY  
STATE  
ZIP CODE NUMBER

Reports

Owner - Operator - or His Agent

SIGNED James R. Satter Agent

Send 1st, 2nd and 3rd Copy with Charts

(Use Additional Sheets When Necessary)