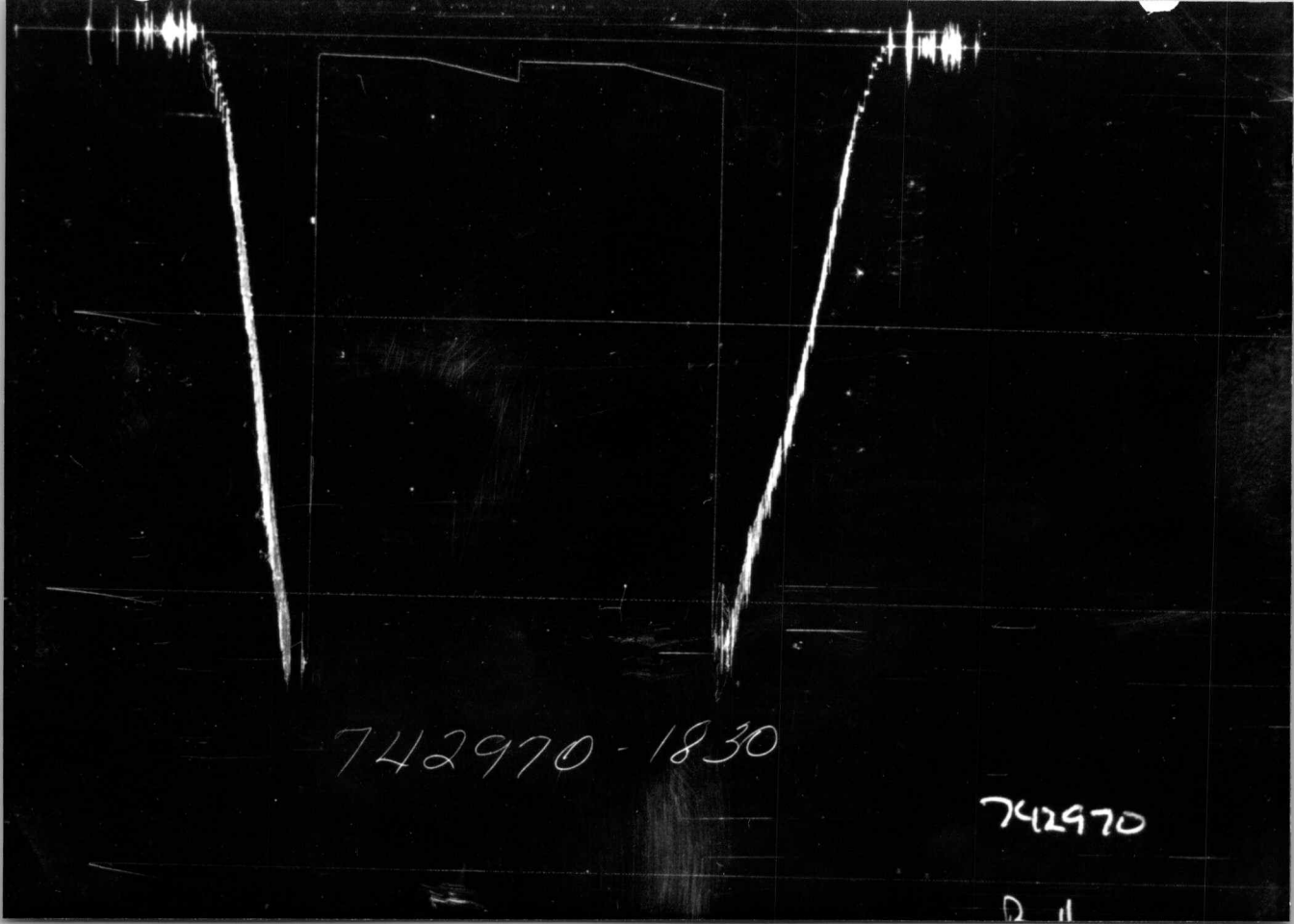


TEMPERATURE
RECORDER
CHART



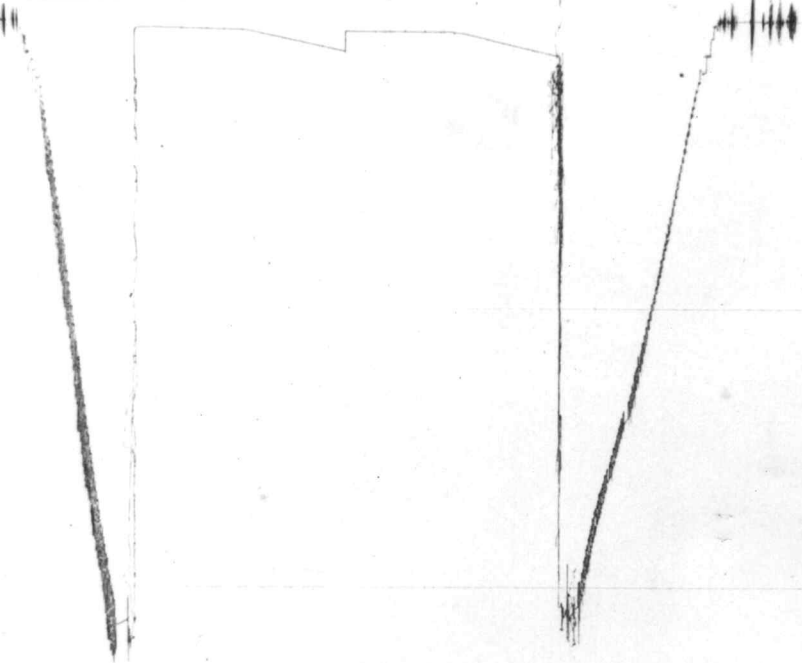
10° each circle



742970-1830

742970

B. 11



742970 - 1831

025746

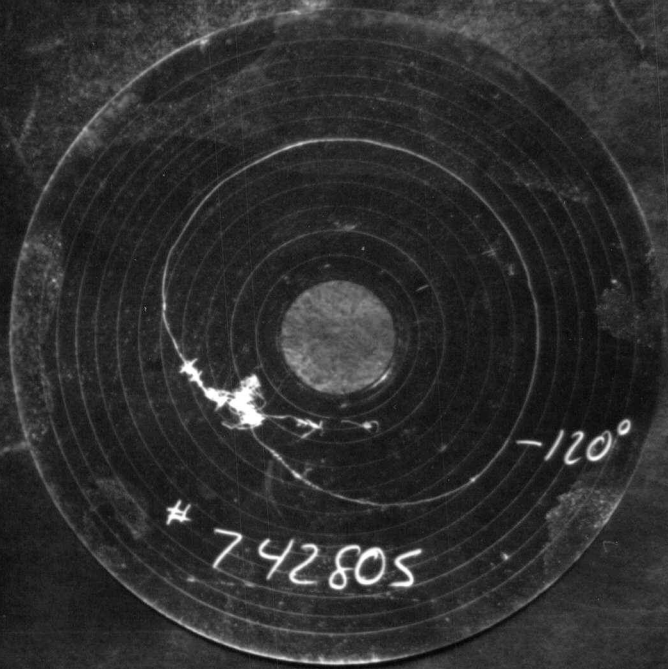
Casing perms. _____ Bottom choke _____ Surf. temp _____ °F Ticket No. 742970
Gas gravity _____ Oil gravity _____ GOR _____
Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F

INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED

[illegible]

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Drill Collars				
Reversing Sub	5 5/8"	2"	1'	
Water Cushion Valve				3852'
Drill Pipe	4 1/2"	3.826"	3852'	
Drill Collars	6"	2.25"	396'	
Handing Sub & Choke Assembly	6"	2"	1'	
Dual CIP Valve	5 3/4"	.87"	6'	4255'
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	5'	4260'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	4'	4262'
Hydraulic Jar	5"	1.50"	5'	
VR Safety Joint				
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1.53"	6'	4274'
Distributor				
Packer Assembly	6 3/4"	1.53"	6'	4280'
Flush Joint Anchor	5"	2.36"	5'	
Pressure Equalizing Tube	6"	2"	2'	
Blanked-Off B.T. Running Case				
Drill Collars	6"	2.25"	61'	
Anchor Pipe Safety Joint	6"	2"	2'	
Packer Assembly				
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint	flush jt. anchor 5"	2.36"	13'	
Side Wall Anchor	HT. 500	2.25"	1'	4365'
Drill Collars				
Flush Joint Anchor				
Blanked-Off B.T. Running Case	5"	2.44"	4'	4366'
Total Depth				4370

TEMPERATURE
RECORDER
CHART



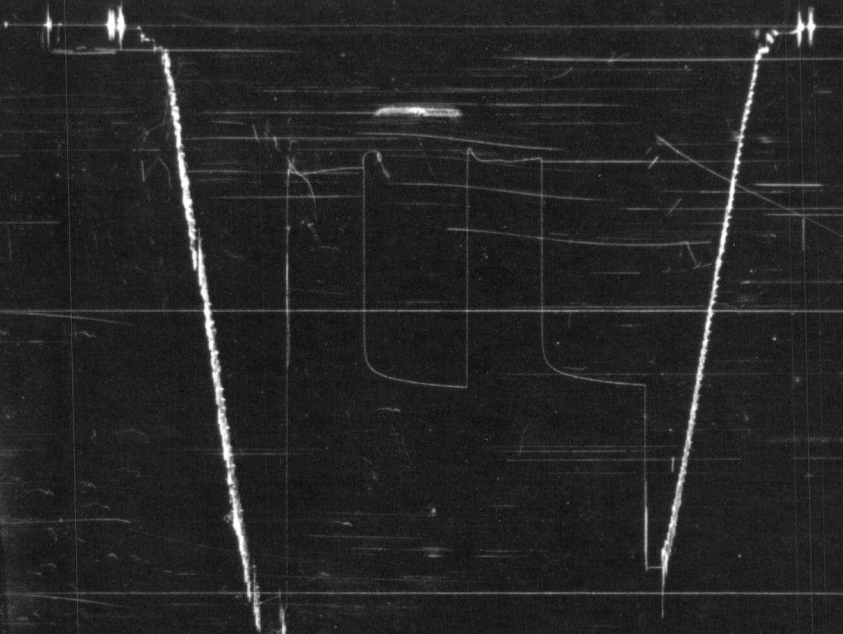
10° each circle



742805-1831

742805

1831



742805-1830

742805

1830

FLUID SAMPLE DATA				Date 3-8-80		Ticket Number 742805	
Sampler Pressure _____ P.S.I.G. at Surface				Kind of D.S.T. OPEN HOLE		Halliburton Location PRATT	
Recovery: Cu. Ft. Gas _____				Tester MR. EHRLICH Witness _____			
cc. Oil _____				Drilling Contractor G & J DRILLING COMPANY RIG #6 bj			
cc. Water _____				EQUIPMENT & HOLE DATA			
cc. Mud _____				Formation Tested Lansing			
Tot. Liquid cc. _____				Elevation 2057' KB Ft.			
Gravity _____ ° API @ _____ ° F.				Net Productive Interval _____ Ft.			
Gas/Oil Ratio _____ cu. ft./bbl.				All Depths Measured From Kelly Bushing			
RESISTIVITY CHLORIDE CONTENT				Total Depth 3930' Ft.			
Recovery Water _____ @ _____ ° F. ppm				Main Hole/Casing Size 7 7/8"			
Recovery Mud _____ @ _____ ° F. ppm				Drill Collar Length 152' I.D. 2.25"			
Recovery Mud Filtrate _____ @ _____ ° F. ppm				Drill Pipe Length 3718' I.D. 3.826"			
Mud Pit Sample _____ @ _____ ° F. ppm				Packer Depth(s) 3890' 59 3896' Ft.			
Mud Pit Sample Filtrate _____ @ _____ ° F. ppm				Depth Tester Valve 3877' Ft.			
Mud Weight 9.6 CL 23000 46 sec.							
TYPE		AMOUNT		Depth Back Pres. Valve		Surface Choke	
Cushion				Ft.		Bottom Choke .75"	
Recovered 5 Feet of highly oil and gas cut mud.							
Recovered Feet of							
Recovered Feet of							
Recovered Feet of							
Recovered Feet of							
Remarks SEE PRODUCTION TEST DATA SHEET....							
TEMPERATURE		Gauge No. 1831		Gauge No. 1830		Gauge No.	
Depth: 3883' Ft.		Depth: 3926' Ft.		Depth: Ft.		TIME (00:00-24:00 hrs.)	
12 Hour Clock		12 Hour Clock		Hour Clock		Tool	
Est. _____ ° F.		Blanked Off NO		Blanked Off YES		Opened 1930	
3925'						Opened	
Actual 120 ° F.		Pressures		Pressures		Bypass 2300	
		Field Office		Field Office		Field Office	
Initial Hydrostatic		1991.5		2033		2011.2	
Flow Initial		396.0		501		486.9	
Flow Final		430.4		492		498.1	
Closed in		1260.6		1274		1269.7	
Flow Initial		413.7		464		429.4	
Flow Final		450.8		464		464.7	
Closed in		1255.0		1255		1262.4	
Flow Initial							
Flow Final							
Closed in							
Final Hydrostatic		1894.5		1847		1907.1	

Legal Location Sec. - Twp. - Rng. **20 26S 15W**

Lease Name **2**

Well No. **2**

Test No. **2**

Tested Interval **3896' to 3930'**

County **PRATT**

State **KANSAS**

SHAW

TEXAS ENERGIES, INCORPORATED

Lease Owner/Company Name

Casing perms. _____ Bottom choke _____ Surf. temp _____ °F Ticket No. 742805
 Gas gravity _____ Oil gravity _____ GOR _____
 Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F
 INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED 2" Orifice Well Tester

Date Time	a.m. p.m.	Choke Size	Surface Pressure psi	Gas Rate MCF	Liquid Rate BPD	Remarks
1500						Called out.
1530						On location.
1750						Waiting on job.
1800						Tool made up in table.
1930						Opened tool.
1932						Gas to surface.
1940		1 1/2	71#	5006		
1945		"	70	4946		
1950		"	69	4886		
1955		"	65	4647		
2000		"	65	4647		
2005		"	65	4647		
2010		"	65	4647		
2015		"	65	4647		Closed tool.
2115						Opened tool.
2120		"	55	4051		
2125		"	70	4946		
2130		"	70	4946		
2135		"	65	4647		
2140		"	70	4946		
2145		"	70	4946		
2150		"	70	4946		
2155		"	70	4946		
2200		"	70	4946		Closed tool.
2300						Tool off bottom.
						Laid down tool.

Gauge No.		1831		Depth		3883'		Clock No. 14117		12 hour		Ticket No.		742805	
First Flow Period		Closed In Pressure		Second Flow Period		Closed In Pressure		Second Flow Period		Third Flow Period		Closed In Pressure		Third Flow Period	
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.
0	.0000	396.0		.0000	430.4	.0000		.0000	413.7	.0000	450.8				
1	.0278*	446.1		.0339**	1194.7	.0541**	456.3	.0339**			1183.6				
2	.0834	440.6		.0611	1212.4	.1015	458.2	.0609			1202.2				
3	.1391	435.9		.0882	1221.6	.1489	461.0	.0880			1212.4				
4	.1947	434.1		.1154	1229.1	.1962	460.0	.1151			1219.8				
5	.2503	430.4		.1425	1234.6	.2436	455.4	.1422			1225.4				
6	.3060	430.4		.1696	1238.3	.2910	450.8	.1693			1230.9				
7				.1968	1243.0			.1963			1234.6				
8				.2239	1245.8			.2234			1239.3				
9				.2511	1248.5			.2505			1242.1				
10				.2782	1250.4			.2776			1244.8				
11				.3053	1252.3			.3047			1247.6				
12				.3325	1255.0			.3317			1249.5				
13				.3596	1256.9			.3588			1251.3				
14				.3868	1257.8			.3859			1253.2				
15				.4140	1260.6			.4130			1255.0				

Gauge No.		1830		Depth		3927'		Clock No. 10288		12 hour	
First Flow Period		Closed In Pressure		Second Flow Period		Closed In Pressure		Second Flow Period		Third Flow Period	
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.
0	.0000	486.9		.0000	498.1	.0000		.0000	429.4		464.7
1	.0265*	515.6		.0328**	1204.4	.0523**	473.0	.0330**			1190.6
2	.0796	517.4		.0590	1220.9	.0980	473.0	.0593			1209.0
3	.1327	508.2		.0852	1231.1	.1438	475.8	.0857			1220.0
4	.1858	503.6		.1114	1238.4	.1895	474.0	.1120			1227.4
5	.2389	499.0		.1377	1244.0	.2352	468.4	.1384			1232.9
6	.2920	498.1		.1639	1248.6	.2810	464.7	.1648			1237.5
7				.1901	1252.2			.1911			1242.1
8				.2163	1255.9			.2175			1245.8
9				.2425	1258.7			.2438			1249.5
10				.2688	1261.5			.2702			1252.2
11				.2950	1263.3			.2966			1255.0
12				.3212	1265.1			.3229			1256.9
13				.3474	1267.0			.3493			1258.7
14				.3736	1268.8			.3756			1260.5
15				.4000	1269.7			.4020			1262.4

Reading Interval	8	4	7	4	Minutes
REMARKS:	* INTERVAL = 4 MINUTES ** INTERVAL = 5 MINUTES *** INTERVAL = 8 MINUTES				

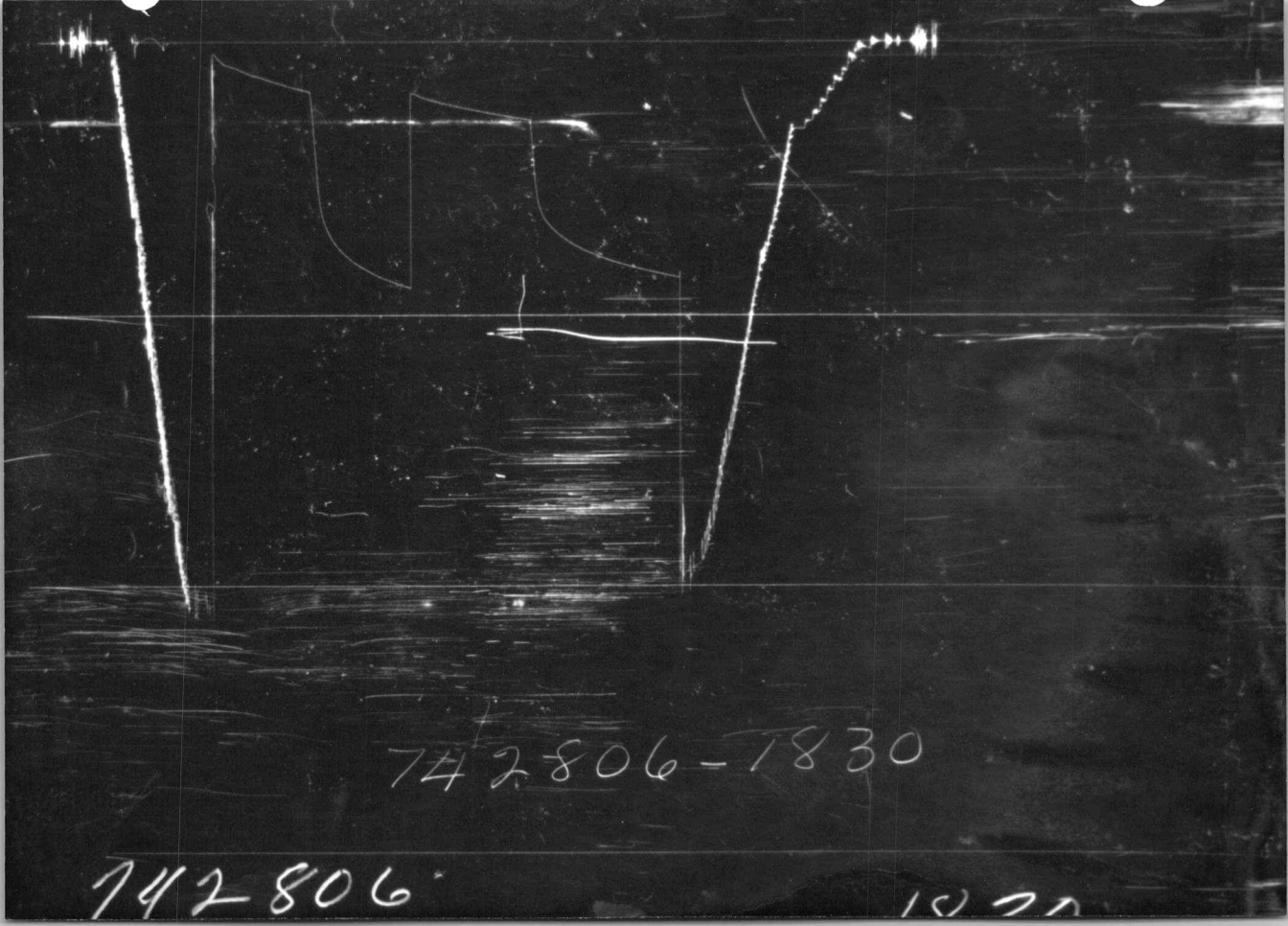


	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Drill Collars				
Reversing Sub	5 5/8"	2.00"	1.00'	3750'
Water Cushion Valve				
Drill Pipe	4.50"	3.826"	3718'	
Drill Collars	6.00"	2.25"	152'	
Handling Sub & Choke Assembly	6.00"	2.25"	1.00'	3870'
Dual CIP Valve	5 3/4"	.87"	6.00'	3871'
Dual CIP Sampler				
Hydro-Spring Tester	5.00"	.75"	5.00'	3877'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5.00"	3.06"	4.00'	3883'
Hydraulic Jar				
VR Safety Joint				
Pressure Equalizing Crossover				
Packer Assembly	6.75"	1.53"	6.00'	3890'
Distributor				
Packer Assembly	6.75"	1.53"	6.00'	3896'
Flush Joint Anchor	5.00"	2.36"	26'	
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case				
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
HT 500 Flush Joint Anchor	5.00"	2.25"	2.00'	3925'
Blanked-Off B.T. Running Case	5.00"	2.44"	4.00'	3926'
Total Depth				3930'

TEMPERATURE
RECORDER
CHART



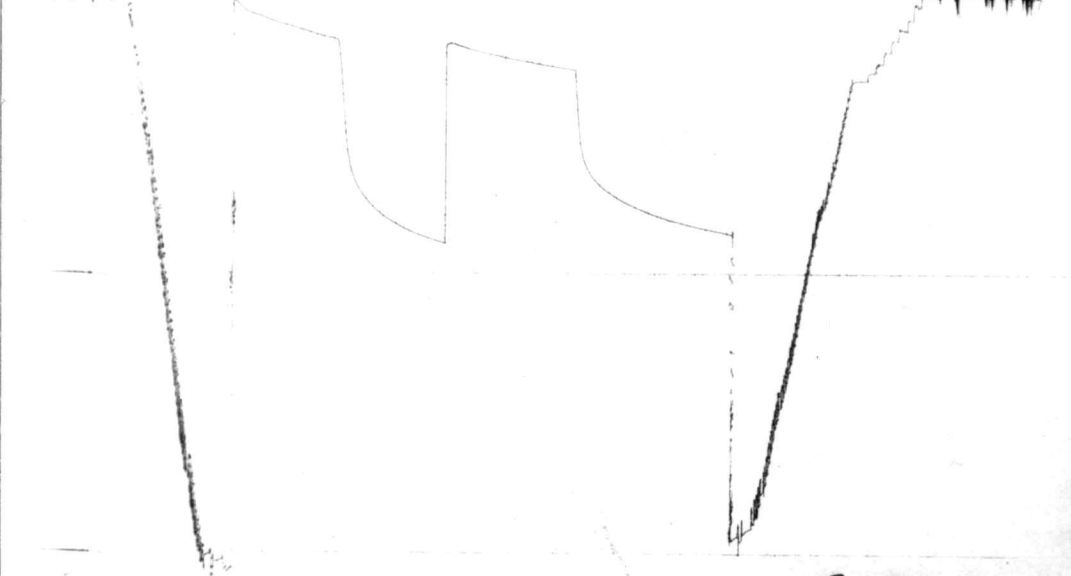
10° each circle



742806-1830

742806

1070



742806-1831

742806

18.31

FLUID SAMPLE DATA				Date 3-9-80		Ticket Number 742806	
Sampler Pressure _____ P.S.I.G. at Surface				Kind of D.S.T. OPEN HOLE		Halliburton Location PRATT	
Recovery: Cu. Ft. Gas _____				Tester DARRELL EHRLICH Witness ??			
cc. Oil _____				Drilling Contractor G & J RIG # 6 DR			
cc. Water _____				EQUIPMENT & HOLE DATA			
cc. Mud _____				Formation Tested Kansas City Lime E Zone			
Tot. Liquid cc. _____				Elevation 2057' KB Ft.			
Gravity _____ ° API @ _____ °F.				Net Productive Interval 3957-3978' 21' Ft.			
Gas/Oil Ratio _____ cu. ft./bbl.				All Depths Measured From Kelly Bushing			
RESISTIVITY _____ °F. _____ ppm				Total Depth 3978' Ft.			
CHLORIDE CONTENT _____				Main Hole/Casing Size 7 7/8"			
Recovery Water _____ @ _____ °F. _____ ppm				Drill Collar Length 152' I.D. 2.25"			
Recovery Mud _____ @ _____ °F. _____ ppm				Drill Pipe Length 3779' I.D. 3.826"			
Recovery Mud Filtrate _____ @ _____ °F. _____ ppm				Packer Depth(s) 3951-3957' Ft.			
Mud Pit Sample _____ @ _____ °F. _____ ppm				Depth Tester Valve 3938' Ft.			
Mud Pit Sample Filtrate _____ @ _____ °F. _____ ppm							
Mud Weight 9.6 CL 23,000 vis 46 sec.							
TYPE		AMOUNT		Depth Back Pres. Valve		Surface Choke 1" Bottom Choke .75"	
Cushion				Ft.			
Recovered 221		Feet heavy oil cut mud					
Recovered 372		Feet of salt water					
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Remarks See production test data sheet							
TEMPERATURE		Gauge No. 1831		Gauge No. 1830		Gauge No.	
Depth: 3944 Ft.		Depth: 3974 Ft.		Depth: _____ Ft.		TIME (00:00-24:00 hrs.)	
Est. _____ °F.		12 Hour Clock		12 Hour Clock		Hour Clock	
Blanked Off NO		Blanked Off YES		Blanked Off		Tool Opened 1300	
3973' Actual 126 °F.		Pressures		Pressures		Pressures	
		Field Office		Field Office		Field Office	
Initial Hydrostatic		2034.6		2033		2044.7	
First Period	Flow Initial	34.3		37		44.5	
	Flow Final	171.6		176		185.5	
	Closed in	893.9		896		905.3	
Second Period	Flow Initial	191.0		186		190.1	
	Flow Final	276.4		278		289.4	
	Closed in	857.9		850		865.8	
Third Period	Flow Initial						
	Flow Final						
	Closed in						
Final Hydrostatic		1941.9		1940		1951.4	

Legal Location
Sec - Twp - Rng.

20-26-15N

Field Area
Mea. From Tester Valve

County

PRATT

State

KANSAS

SHAW

Lease Name

Well No.

Test No.

3957-3978'
Tested Interval

TEXAS ENERGIES INCORPORATED
Lease Owner/Company Name

Casing perms. _____ Bottom choke _____ Surf. temp. _____ °F Ticket No. 742806
 Gas gravity _____ Oil gravity _____ GOR _____
 Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F
 INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED _____

INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED.

[illegible]

Gauge No. 1831		Depth 3944'		Clock No. 14117		12 hour		Ticket No. 742806	
First Flow Period		Closed In Pressure		Second Flow Period		Closed In Pressure		Third Flow Period	
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t+\theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t+\theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.
0 .000	34.3	.000		.000	191.0	.000			
1 .0616*	76.0	.0339**		.0890***	202.2	.0407			
2 .1301	98.3	.0611		.1712	220.7	.0813			
3 .1986	118.7	.0882		.2534	237.4	.1220			
4 .2671	137.2	.1154		.3356	250.4	.1627			
5 .3356	155.8	.1425		.4178	264.3	.2034			
6 .4040	171.6	.1697		.5000	276.4	.2440			
7		.1968				.2847			
8		.2240				.3254			
9		.2511				.3660			
10		.2783				.4067			
11		.3054				.4474			
12		.3326				.4880			
13		.3597				.5287			
14		.3869				.5694			
15		.4140				.6100			

Gauge No. 1830		Depth 3974'		Clock No. 10288		hour 12	
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t+\theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t+\theta}{\theta}$
0 .000	44.5	.000		.000	190.1	.000	
1 .0595*	88.1	.0329**		.0853***	217.9	.0396	
2 .1256	111.3	.0593		.1640	234.6	.0792	
3 .1917	131.7	.0857		.2428	249.5	.1188	
4 .2578	152.1	.1120		.3215	264.3	.1584	
5 .3239	169.7	.1384		.4003	277.3	.1980	
6 .3900	185.5	.1648		.4790	289.4	.2376	
7		.1911				.2772	
8		.2175				.3168	
9		.2438				.3564	
10		.2702				.3960	
11		.2966				.4356	
12		.3229				.4752	
13		.3493				.5148	
14		.3756				.5544	
15		.4020				.5940	

Reading Interval 10		4		12		6	
Minutes	Seconds	Minutes	Seconds	Minutes	Seconds	Minutes	Seconds
0	00	0	00	0	00	0	00
1	05	1	05	1	05	1	05
2	10	2	10	2	10	2	10
3	15	3	15	3	15	3	15
4	20	4	20	4	20	4	20
5	25	5	25	5	25	5	25
6	30	6	30	6	30	6	30
7	35	7	35	7	35	7	35
8	40	8	40	8	40	8	40
9	45	9	45	9	45	9	45
10	50	10	50	10	50	10	50
11	55	11	55	11	55	11	55
12	00	12	00	12	00	12	00
13	05	13	05	13	05	13	05
14	10	14	10	14	10	14	10
15	15	15	15	15	15	15	15

REMARKS:	
***-13 minutes	
**-5 minutes	
*-9 minutes	

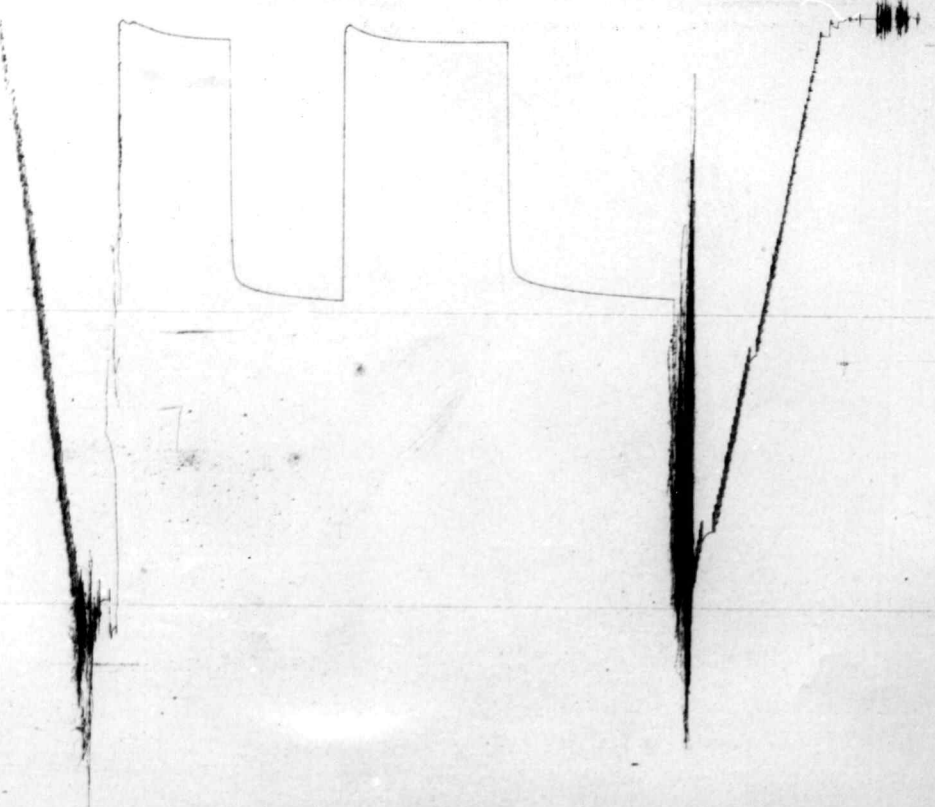


	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Drill Collars				
Reversing Sub	5 5/8"	2"	1'	3811'
Water Cushion Valve				
Drill Pipe	4 1/2"	3.826"	3779'	
Drill Collars	6"	2.25"	152'	
Handling Sub & Choke Assembly	6"	2.25"	1'	
Dual CIP Valve	5 3/4"	.87"	6'	3932'
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	5'	3938'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	4'	3944'
Hydraulic Jar				
VR Safety Joint				
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1.53"	6'	3951'
Distributor				
Packer Assembly	6 3/4"	1.53"	6'	3957'
Flush Joint Anchor	5"	2.36"	13'	
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case				
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor HT-500	5"	2.25"	2'	3973'
Blanked-Off B.T. Running Case	5"	2.44"	4'	3974'
Total Depth				3978'

TEMPERATURE
RECORDER
CHART



10° each circle



742967 1831

742967

742967 1830

742967

Bottom

742967

Casing perms. _____ Bottom choke _____ Surf. temp _____ °F Ticket No. _____
 Gas gravity _____ Oil gravity _____ GOR _____
 Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F
 INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED Merla tester

Date Time	a.m. p.m.	Choke Size	Surface Pressure psi	Gas Rate MCF	Liquid Rate BPD	Remarks
0530						Called out
0630						On location
0745						Picked up tool
0800						Tool at table
0902						Tool on bottom 42 M weight
0910						Tool opened with a strong blow
0914						Gas to surface
0920		1/4"	22	50		
0930		"	38	73		
0940		"	48	87		
0950		"	52	93		
1000		"	53	94		
1010		"	53	94		Closed tool
1110		"	10	31		Opened tool
1120		"	30	62		
1130		"	45	83		
1140		"	52	93		
1150		"	54	95		
1200		"	54	95		
1210		"	52	93		
1220		"	50	90		
1230		"	48	87		
1240		"	46	84		Closed tool
1410						Tool off bottom 42 M weight
1600						Tool at table

Gauge No.		1831		Depth 4019'		Clock No.		14117		12 hour		Ticket No.		742967	
First Flow Period		First Closed In Pressure		Second Flow Period		Second Closed In Pressure		Third Flow Period		Third Closed In Pressure		PSIG Temp. Corr.		PSIG Temp. Corr.	
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.
0	.0000	46.3		.0000	65.8	.0000		.0000	93.6						
1	.0673	43.5		.0875**	69.5	.0473***		.0473***	864.3						
2	.1347	64.9		.1884	89.0	.0879		.0879	901.2						
3	.2020	78.8		.2893	94.6	.1284		.1284	911.4						
4	.2693	86.2		.3902	95.5	.1690		.1690	918.8						
5	.3367	89.9		.4911	95.5	.2095		.2095	924.3						
6	.4040	91.8		.5930	93.6	.2501		.2501	930.8						
7						.2906		.2906	934.4						
8						.3312		.3312	937.2						
9						.3717		.3717	940.9						
10						.4123		.4123	943.7						
11						.4528		.4528	945.5						
12						.4934		.4934	948.3						
13						.5339		.5339	951.1						
14						.5745		.5745	952.9						
15						.6150		.6150	954.7						

Gauge No.		1830		Depth 4045'		Clock No.		10288		12 hour		Minutes*	
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.
0	.0000	72.3		.0000	66.7	.0000		.0000	96.4				
1	.0652	64.0		.0849**	74.2	.0462***		.0462***	884.1				
2	.1303	82.5		.1830	93.6	.0857		.0857	901.6				
3	.1955	95.5		.2810	98.3	.1253		.1253	911.7				
4	.2607	102.9		.3790	99.2	.1648		.1648	919.1				
5	.3259	104.8		.4770	99.2	.2044		.2044	925.5				
6	.3910	105.7		.5750	96.4	.2440		.2440	930.1				
7						.2835		.2835	934.7				
8						.3231		.3231	938.4				
9						.3626		.3626	941.1				
10						.4022		.4022	943.9				
11						.4418		.4418	946.6				
12						.4813		.4813	949.4				
13						.5209		.5209	951.2				
14						.5604		.5604	953.1				
15						.600		.600	954.9				

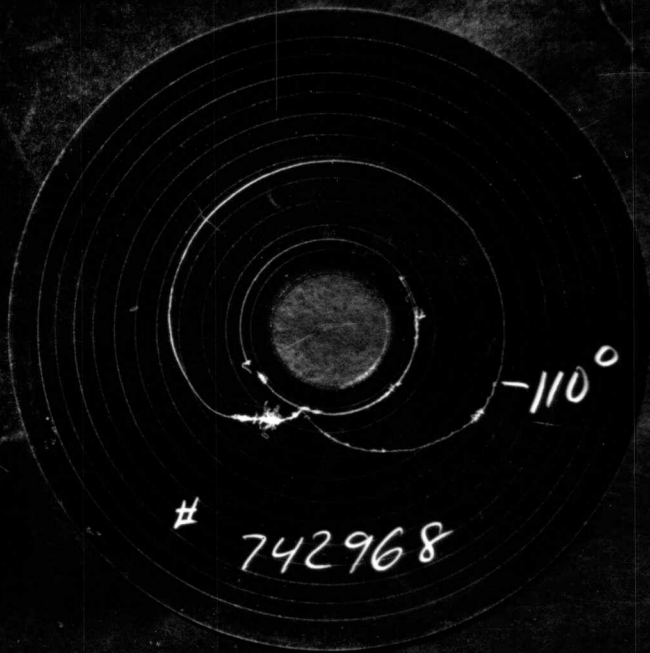
Reading Interval 10		4		15		6		Minutes*	
REMARKS: * First interval is equal to 6 minutes. ** = 13 minutes. *** = 7 minutes.									

25



	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing	4.5"	3.83"	3852'	
Drill Collars	6"	2"	1'	
Reversing Sub				
Water Cushion Valve				
Drill Pipe	4 1/2"	3.826"	3852'	
Drill Collars	4 1/2"	2.25"	153'	
Running Sub & Choke Assembly	6"	2"	1'	Double Pin
Dual CIP Valve	5.75"	.87"	6'	4012'
Dual CIP Sampler	5"	.75"	5'	4017'
Hydro-Spring Tester				
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	4'	4019'
Hydraulic Jar				
VR Safety Joint				
Pressure Equalizing Crossover				
Packer Assembly	6.75"	1.53"	6'	4026'
Distributor				
Packer Assembly	6.75"	1.53"	6'	4032'
Flush Joint Anchor	5"	2.36"	10'	
Pressure Equalizing Tube	5"	2.25"	1'	
HT-500	5"	2.44"	4'	4045'
Blanked-Off B.T. Running Case				
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				4049'
Total Depth				

TEMPERATURE
RECORDER
CHART

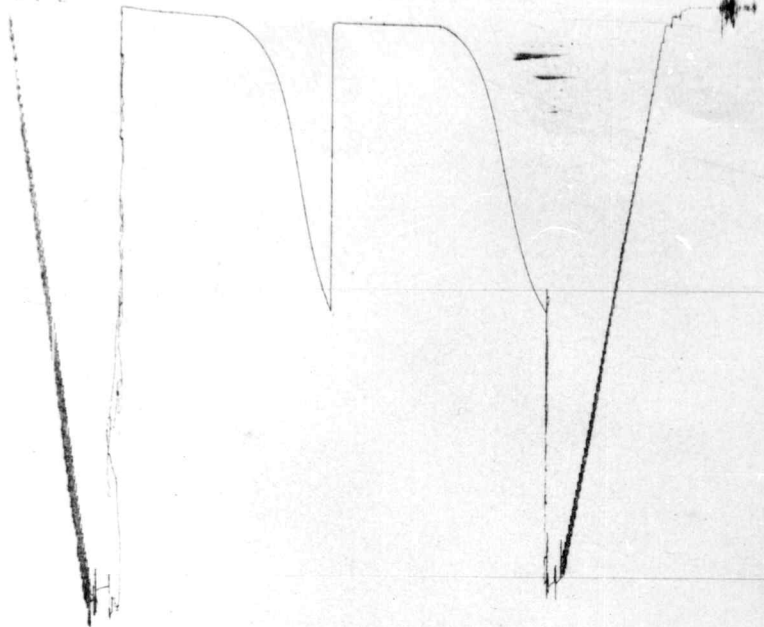


10° each circle

742968-1830

742968

B. H. H.



742 968- 1831

742968

FLUID SAMPLE DATA				Date 3-11-80		Ticket Number 742968	
Sampler Pressure _____ P.S.I.G. at Surface Recovery: Cu. Ft. Gas _____ cc. Oil _____ cc. Water _____ cc. Mud _____ Tot. Liquid cc. _____ Gravity _____ ° API @ _____ °F. Gas/Oil Ratio _____ cu. ft./bbl.				Kind of D.S.T. OPEN HOLE		Halliburton Location PRATT	
				Tester MR. SEYFERT		Witness MR. ELSTER	
				Drilling Contractor G & J #6		IC	
EQUIPMENT & HOLE DATA							
				Formation Tested Lansing			
				Elevation 2057'		KB Ft.	
				Net Productive Interval -		Ft.	
				All Depths Measured From Kelly Bushing			
				Total Depth 4111'		Ft.	
				Main Hole/Casing Size 7 7/8"			
				Drill Collar Length 122'		I.D. 2.25"	
				Drill Pipe Length 3907'		I.D. 3.826"	
				Packer Depth(s) 4050' - 4056'		Ft.	
				Depth Tester Valve 4041'		Ft.	
TYPE		AMOUNT		Depth Back Pres. Valve		Surface Choke	
Cushion						1"	
						Bottom Choke .75"	
Recovered		150		Feet of Slightly oil & gas cut mud			
Recovered				Feet of			
Recovered				Feet of			
Recovered				Feet of			
Recovered				Feet of			
Remarks SEE PRODUCTION TEST DATA SHEET.							
TEMPERATURE		Gauge No. 1831		Gauge No. 1830		Gauge No.	
		Depth: 4043' Ft.		Depth: 4108' Ft.		Depth: _____ Ft.	
		12 Hour Clock		12 Hour Clock		Hour Clock	
Est. _____ °F.		Blanked Off NO		Blanked Off YES		Blanked Off	
4106' @						Tool	
Actual 110F.						Opened 7:35	
						Opened	
						Bypass 11:35	
		Pressures		Pressures		Pressures	
		Field	Office	Field	Office	Field	Office
Initial Hydrostatic		-	2042.1	2135	2067.1		
First Period	Flow Initial	-	24.1	28	48.2		
	Flow Final	-	57.5	74	83.4		
	Closed in	-	1067.3	1089	1091.9	60	58
Second Period	Flow Initial	-	82.5	84	99.2		
	Flow Final	-	81.6	93	104.8	60	60
	Closed in	-	1071.0	1089	1094.6	60	61
Third Period	Flow Initial						
	Flow Final						
Final Hydrostatic		-	2014.0	2014	2038.2		

 Legal Location
 Sec. - Twp. - Rng.

20 - 26 - 15

 SHAW
 Lease Name

 2
 Well No.

 5
 Test No.

 4056' - 4111'
 Tested Interval

Field Area

County

PRATT

State

KANSAS

 TEXAS ENERGIES INCORPORATED
 Lease Owner/Company Name

Casing perms. _____ Bottom choke _____ Surf. temp. _____ °F Ticket No. 742968
Gas gravity _____ Oil gravity _____ GOR _____
Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F

INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED.

[illegible]

Gauge No. 1831				Depth 4043'				Clock No. 14117				12 hour				Ticket No. 742968			
First Flow Period				Closed In Pressure				Second Flow Period				Closed In Pressure				Third Flow Period			
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.		
0 .000	24.1	.000	57.5	.000	82.5	.000	81.6	.000	81.6	.000	81.6	.000	81.6	.000	81.6	.000	81.6		
1 .0538	29.6*	.0338	70.4	.067	75.1	.0403	102.0**	.0403	102.0**	.0403	102.0**	.0403	102.0**	.0403	102.0**	.0403	102.0**		
2 .1210	38.0	.0675	90.9	.134	76.9	.0739	127.0	.0739	127.0	.0739	127.0	.0739	127.0	.0739	127.0	.0739	127.0		
3 .1883	41.7	.1013	115.9	.201	78.8	.1075	164.1	.1075	164.1	.1075	164.1	.1075	164.1	.1075	164.1	.1075	164.1		
4 .2555	47.3	.1350	153.0	.268	79.7	.1411	217.9	.1411	217.9	.1411	217.9	.1411	217.9	.1411	217.9	.1411	217.9		
5 .3228	51.9	.1688	203.1	.335	80.7	.1747	295.9	.1747	295.9	.1747	295.9	.1747	295.9	.1747	295.9	.1747	295.9		
6 .3900	57.5	.2025	279.2	.402	81.6	.2083	410.9	.2083	410.9	.2083	410.9	.2083	410.9	.2083	410.9	.2083	410.9		
7		.2363	393.3			.2419	560.8	.2419	560.8	.2419	560.8	.2419	560.8	.2419	560.8	.2419	560.8		
8		.2700	553.5			.2755	707.5	.2755	707.5	.2755	707.5	.2755	707.5	.2755	707.5	.2755	707.5		
9		.3038	725.0			.3092	840.4	.3092	840.4	.3092	840.4	.3092	840.4	.3092	840.4	.3092	840.4		
10		.3375	878.2			.3428	941.8	.3428	941.8	.3428	941.8	.3428	941.8	.3428	941.8	.3428	941.8		
11		.3713	988.9			.3764	1015.6	.3764	1015.6	.3764	1015.6	.3764	1015.6	.3764	1015.6	.3764	1015.6		
12		.4050	1067.3			.4100	1071.0	.4100	1071.0	.4100	1071.0	.4100	1071.0	.4100	1071.0	.4100	1071.0		
13																			
14																			
15																			

Gauge No. 1830				Depth 4108'				Clock No. 10288				12 hour			
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.		
0 .000	48.2	.000	83.4	.000	99.2	.000	104.8	.000	104.8	.000	104.8	.000	104.8		
1 .0523	57.5*	.0324	99.2	.0653	98.3	.0390	128.9**	.0390	128.9**	.0390	128.9**	.0390	128.9**		
2 .1176	65.8	.0648	117.8	.1307	99.2	.0715	154.9	.0715	154.9	.0715	154.9	.0715	154.9		
3 .1830	69.5	.0973	144.7	.1960	102.0	.1041	192.9	.1041	192.9	.1041	192.9	.1041	192.9		
4 .2483	75.1	.1297	180.8	.2613	102.9	.1366	251.3	.1366	251.3	.1366	251.3	.1366	251.3		
5 .3137	78.8	.1621	233.7	.3267	103.8	.1692	336.7	.1692	336.7	.1692	336.7	.1692	336.7		
6 .3790	83.4	.1945	315.3	.3920	104.8	.2017	454.5	.2017	454.5	.2017	454.5	.2017	454.5		
7		.2269	428.5			.2342	599.2	.2342	599.2	.2342	599.2	.2342	599.2		
8		.2593	587.3			.2668	741.7	.2668	741.7	.2668	741.7	.2668	741.7		
9		.2918	755.5			.2993	870.3	.2993	870.3	.2993	870.3	.2993	870.3		
10		.3242	904.4			.3319	970.5	.3319	970.5	.3319	970.5	.3319	970.5		
11		.3566	1011.9			.3644	1042.2	.3644	1042.2	.3644	1042.2	.3644	1042.2		
12		.3890	1091.9			.3970	1094.6	.3970	1094.6	.3970	1094.6	.3970	1094.6		
13															
14															
15															

Reading Interval 10				5				10				Minutes			

REMARKS: *First interval equal to 8 minutes **=6 minutes

TICKET NO. 742968

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing	4.5"	3.826"	3907'	
Drill Collars	6"	2"	1' REV. SUB	
Reversing Sub				
Water Cushion Valve				
Drill Pipe				
Drill Collars	6.25"	2.25"	122'	
Handling Sub & Choke Assembly	6"	2"	1' X OVER	
Dual CIP Valve	5.75"	.87"	6'	4036'
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	5'	4041'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	4'	4043'
Hydraulic Jar				
VR Safety Joint				
Pressure Equalizing Crossover				
Packer Assembly	6.75"	1.53"	6'	4050'
Distributor				
Packer Assembly	6.75"	1.53"	6'	4056'
Flush Joint Anchor	5"	2.36"	5'	
Pressure Equalizing Tube	6"	2"	2' X OVER	
Blanked-Off B.T. Running Case				
Drill Collars	6.25"	2.25"	30'	
Anchor Pipe Safety Joint	6"	2"	1' DOUBLE PIN SUB	
Packer Assembly	6"	2"	1' X OVER	
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint	5"	2.36"	9' FLUSH JOINT ANCHOR	
Side Wall Anchor	5"	2.25"	1'	4106' TEMP.
Drill Collars				
Flush Joint Anchor				
Blanked-Off B.T. Running Case	5"	2.44"	4'	4108'
Total Depth				4111'

TEMPERATURE
RECORDER
CHART



10° each circle



742969-1830

742969

Bottom



A hand-drawn sketch of a waveform on a piece of paper. The waveform starts with a sharp downward spike, followed by a series of two rectangular pulses with rounded corners. The first pulse is wider than the second. After the second pulse, there is another sharp downward spike, followed by a series of small, irregular upward steps. A horizontal line serves as a baseline for the sketch.

742969-1831

742969

FLUID SAMPLE DATA				Date 3-12-80		Ticket Number 742969	
Sampler Pressure _____ P.S.I.G. at Surface				Kind of D.S.T. OPEN HOLE		Halliburton Location PRATT	
Recovery: Cu. Ft. Gas _____				Tester SEYFERT		Witness OSTER	
cc. Oil _____				Drilling Contractor GABBERT & JONES DRILLING COMPANY NM S			
cc. Water _____				EQUIPMENT & HOLE DATA			
cc. Mud _____				Formation Tested Kansas City & Lansing			
Tot. Liquid cc. _____				Elevation 2057' K.B. _____ Ft.			
Gravity _____ ° API @ _____ °F.				Net Productive Interval ? _____ Ft.			
Gas/Oil Ratio _____ cu. ft./bbl.				All Depths Measured From Kelly Bushing			
RESISTIVITY _____ °F. _____ ppm				Total Depth 4159' _____ Ft.			
CHLORIDE CONTENT _____				Main Hole/Casing Size 7 7/8"			
Recovery Water _____ @ _____ °F. _____ ppm				Drill Collar Length 122' I.D. 2.25"			
Recovery Mud _____ @ _____ °F. _____ ppm				Drill Pipe Length 3958' I.D. 3.826"			
Recovery Mud Filtrate _____ @ _____ °F. _____ ppm				Packer Depth(s) 4101' - 4107' _____ Ft.			
Mud Pit Sample _____ @ _____ °F. _____ ppm				Depth Tester Valve 4092' _____ Ft.			
Mud Pit Sample Filtrate _____ @ _____ °F. _____ ppm							
Mud Weight _____ vis _____ sec.							
Cushion TYPE AMOUNT		Depth Back Pres. Valve		Surface Choke		Bottom Choke	
NONE		NONE		1.00"		.75"	
Recovered 360' Feet of heavy oil and gas cut mud							
Recovered 180' Feet of salt water							
Recovered Feet of							
Recovered Feet of							
Recovered Feet of							
Remarks SEE PRODUCTION TEST DATA SHEET...							
TEMPERATURE		Gauge No. 1831	Gauge No. 1830	Gauge No.	TIME (00:00-24:00 hrs.)		
Depth: 4094' Ft.		Depth: 4155' Ft.	Depth: _____ Ft.				
12 Hour Clock		12 Hour Clock	Hour Clock	Tool Opened 03:00			
Blanked Off NO		Blanked Off YES	Blanked Off	Opened Bypass 08:00			
4154' @ Actual 112°F.		Pressures		Pressures		Pressures	
	Field	Office	Field	Office	Field	Office	Reported Minutes
Initial Hydrostatic	-	2129.2	2145	2160.4			Computed Minutes
First Period	Flow Initial	-	38.9	56	66.7		
	Flow Final	-	122.4	149	150.2		
	Closed in	-	1395.1	1421	1425.4		
Second Period	Flow Initial	-	160.4	158	171.6		
	Flow Final	-	231.9	251	259.7		
	Closed in	-	1390.5	1421	1418.9		
Third Period	Flow Initial	-					
	Flow Final	-					
	Closed in	-					
Final Hydrostatic	-	2043.0	2051	2071.8			

Legal Location Sec. - Twp. - Rng. 20 - 26 - 15

Field Area

Mea. From Tester Valve

County PRATT

State KANSAS

Lease Owner/Company Name

SHAW

Well No. 2

Test No. 6

Tested Interval 4107' - 4159'

TEXAS ENERGIES, INCORPORATED

Casing perms. _____ Bottom choke _____ Surf. temp. _____ °F Ticket No. 742909
 Gas gravity _____ Oil gravity _____ GOR _____
 Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F
 INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED _____

[illegible]

Gauge No.			1831			Depth			4094'			Clock No.			14117			12 hour			Ticket No.			742969		
First Flow Period			First Closed In Pressure			Second Flow Period			Second Closed In Pressure			Third Flow Period			Third Closed In Pressure			PSIG Temp. Corr.			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.	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"	PSIG Temp. Corr.		Time Defl. .000"	PSIG Temp. Corr.	
0	.000	38.9	.000	122.4	.000	160.4	.000	231.9	.000	647.6***																
1	.0741	52.8*	.0335	637.4**	.1023	148.4	.0272	994.4																		
2	.1415	66.7	.0603	948.3	.2047	168.8	.0681	1140.0																		
3	.2089	80.7	.0872	1098.3	.3070	186.4	.1089	1210.5																		
4	.2762	94.6	.1140	1180.8	.4093	202.2	.1497	1258.8																		
5	.3436	107.6	.1408	1236.5	.5117	216.1	.1906	1294.0																		
6	.4110	122.4	.1676	1272.7	.6140	231.9	.2314	1316.3																		
7			.1944	1301.4			.2723	1334.8																		
8			.2213	1323.7			.3131	1348.7																		
9			.2481	1341.3			.3539	1358.9																		
10			.2749	1355.2			.3948	1368.2																		
11			.3017	1366.4			.4356	1375.6																		
12			.3285	1375.6			.4765	1381.2																		
13			.3554	1383.0			.5173	1385.8																		
14			.3822	1390.5			.5581	1390.5																		
15			.4090	1395.1			.5990																			

Gauge No.			1830			Depth			4155'			Clock No.			10288			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.	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"	PSIG Temp. Corr.		Time Defl. .000"	PSIG Temp. Corr.
0	.000	66.7	.000	150.2	.000	171.6	.000	259.7	.000	625.9***															
1	.0729	80.7*	.0329	636.9**	.0988	178.0	.0265	997.2																	
2	.1391	93.6	.0592	954.0	.1977	198.5	.0664	1151.9																	
3	.2053	107.6	.0855	1114.1	.2965	216.1	.1062	1232.9																	
4	.2715	122.4	.1118	1202.5	.3953	231.9	.1460	1284.5																	
5	.3378	137.2	.1380	1264.2	.4942	245.8	.1858	1320.4																	
6	.4040	150.2	.1643	1298.3	.5930	259.7	.2256	1344.3																	
7			.1906	1328.7			.2655	1362.7																	
8			.2169	1352.6			.3053	1376.6																	
9			.2432	1369.2			.3451	1387.6																	
10			.2695	1384.8			.3849	1396.8																	
11			.2958	1396.8			.4247	1404.2																	
12			.3221	1406.9			.4645	1410.6																	
13			.3484	1414.3			.5044	1415.2																	
14			.3747	1420.8			.5442	1418.9																	
15			.4010	1425.4			.5840																		
Reading Interval 10			4			15			6			Minutes													

REMARKS: * INTERVAL = 11 MINUTES. ** INTERVAL = 5 MINUTES. *** INTERVAL = 4 MINUTES.

REMARKS: * INTERVAL = 11 MINUTES. ** INTERVAL = 5 MINUTES. *** INTERVAL = 4 MINUTES.

5



	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing	4.5"	3.826"	3958'	
Drill Collars	6"	2"	1.00'	
Reversing Sub				
Water Cushion Valve				
Drill Pipe	6.25"	2.25"	122'	
Drill Collars	6.00"	2.00"	1'	
* Running Sub & Choke Assembly C/O	5.75"	.87"	6'	4087'
Dual CIP Valve				
Dual CIP Sampler	5.00"	.75"	5'	4092'
Hydro-Spring Tester				
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	4'	4094'
Hydraulic Jar				
VR Safety Joint				
Pressure Equalizing Crossover				
Packer Assembly	6.75"	1.53"	6'	4101'
Distributor				
Packer Assembly	6.75"	1.53"	6'	4107'
Flush Joint Anchor	5"	2.36"	5'	
Pressure Equalizing Tube C/O	6"	2"	2'	
3 1/2" FH x 4 1/2" FH 4 1/2" FH x 4 1/2" H-90				
Blanked-Off B.T. Running Case				
Drill Collars	6.25"	2.25"	30'	
Anchor Pipe Safety Joint				
Packer Assembly				
Distributor				
Rocking Assembly DOUBLE PIN	6"	2"	1'	
Anchor Pipe Safety Joint C/O 4 1/2" FH	6"	2"	1'	
x 3 1/2" FH HT-500	5"	2.25"	1'	4154'
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor	5"	2.36"	6'	
Blanked-Off B.T. Running Case	5"	2.44"	4'	4155'
Total Depth				4159'