

GARVEY DRILLING COMPANY

TESTING DIVISION

No 3275

Company Pet. Inc. Lease & Well No. Beeley ^{unit} X-1

Elevation _____ Ticket Number _____

Date 5-5-69 Sec. _____ Twp. _____ Range _____ County Comanche State Kansas

Test Approved by Roger McCoy Garvey Representative Doyle Folke

Formation Test No 1 O.K. ☒ Misrun _____ Interval Tested From 4950 to 5020 Total Depth 5020

Size Main Hole 7 7/8 Rat Hole _____ Conv ☒ B.T. _____ Damaged _____ Yes ☒ No _____ Conv ☒ B.T. _____ Damaged _____ Yes ☒ No _____

Packer Depth 4944 Ft. Size 6 3/4 Packer Depth 4950 Ft. Size 6 3/4

Straddle _____ Yes ☒ No _____ Conv _____ B.T. _____ Damaged _____ Yes _____ No _____

Packer Depth _____ Ft. Size _____

Tool Size 5" Tool Jt. Size 5 1/2" Anchor Length 70 Ft. Size 4 1/2 FH

RECORDERS Depth 4955 Ft. Clock No. 8701 Depth 4958 Ft. Clock No. 118

Top Make Kuta Cap. 4300 No. 1774 Inside _____ Outside _____ Bottom Make Western Cap. 4000 No. 51 Inside _____ Outside _____

Below Straddle: Depth _____ Clock No. _____ Inside _____ Outside _____

Top Make _____ Cap. _____ No. _____ Inside _____ Outside _____ Bottom Make _____ Cap. _____ No. _____ Inside _____ Outside _____

Time Set Packer 10:11 4 M

Tool Open I.F.P. From 10:13 M. to 10:43 M. - Hr. 30 Min. From (B) 91 P.S.I. To (C) 136 P.S.I.

Tool Closed I.C.I.P. From 10:43 M. to 11:13 M. - Hr. 30 Min. (D) 1381 P.S.I.

Tool Open F.F.P. From 11:13 M. to 11:43 M. - Hr. 30 Min From (E) 148 P.S.I. To (F) 182 P.S.I.

Tool Closed F.C.I.P. From 11:43 M. to 12:13 M. - Hr. 30 Min. (G) 1370 P.S.I.

Initial Hydrostatic Pressure (A) 2550 P.S.I. Final Hydrostatic Pressure (H) 2550 P.S.I.

SURFACE Size Choke 1 In. Max. Press. P.S.I. _____ Time _____ Description of Flow _____

INFORMATION 10:13 1810 6" 10:13 84, 910

20 " 4" 10:33 70, 010

30 " 3" 10:43 60, 020

BLOW Strong 40" (157M) 1113 Bottom Choke Size 5 in.

Did Well Flow _____ Yes ☒ No _____ Recovery Total Ft. Gas to Surface 7 Min.

575' Gas Cut Muddy Water

Reversed Out _____ Yes ☒ No _____ Mud Type Sp. 44 Viscosity 76 Weight _____ Maximum Temp. 118 °F

EXTRA EQUIPMENT: Dual Packers Yes Safety Joint Yes Jars: Size 2 1/2 Make Rowan Ser. No. Atlas Fisher

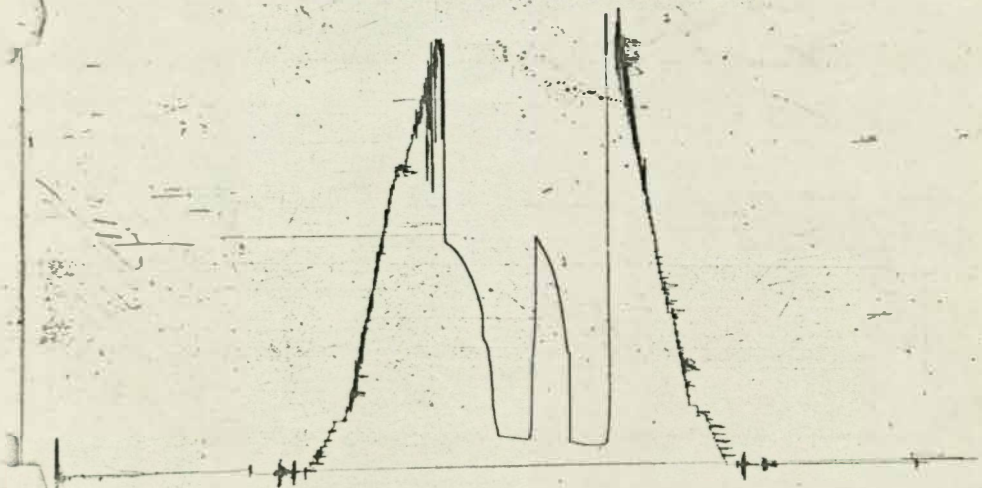
Type Circ. Sub. Knockout Did Tool Plug? NO Where? _____ Did Packer Hold? Yes

Length Drill Pipe 4208 ft. I. D Drill Pipe 3 1/2 in. Length Weight Pipe _____ ft. I. D. Weight Pipe _____ in. Length Drill Collars 713 ft.

I. D. Drill Collars 2 1/2 in. Length D. S. T. Tool 99 ft.

Remarks _____

3275



Formation Testing Service Report

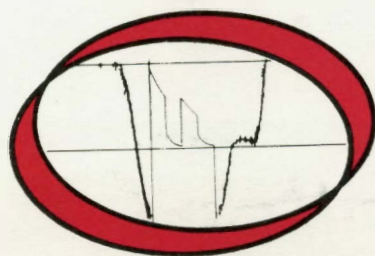
BELEY
Lease Name

1
Well No.

2
Test No.

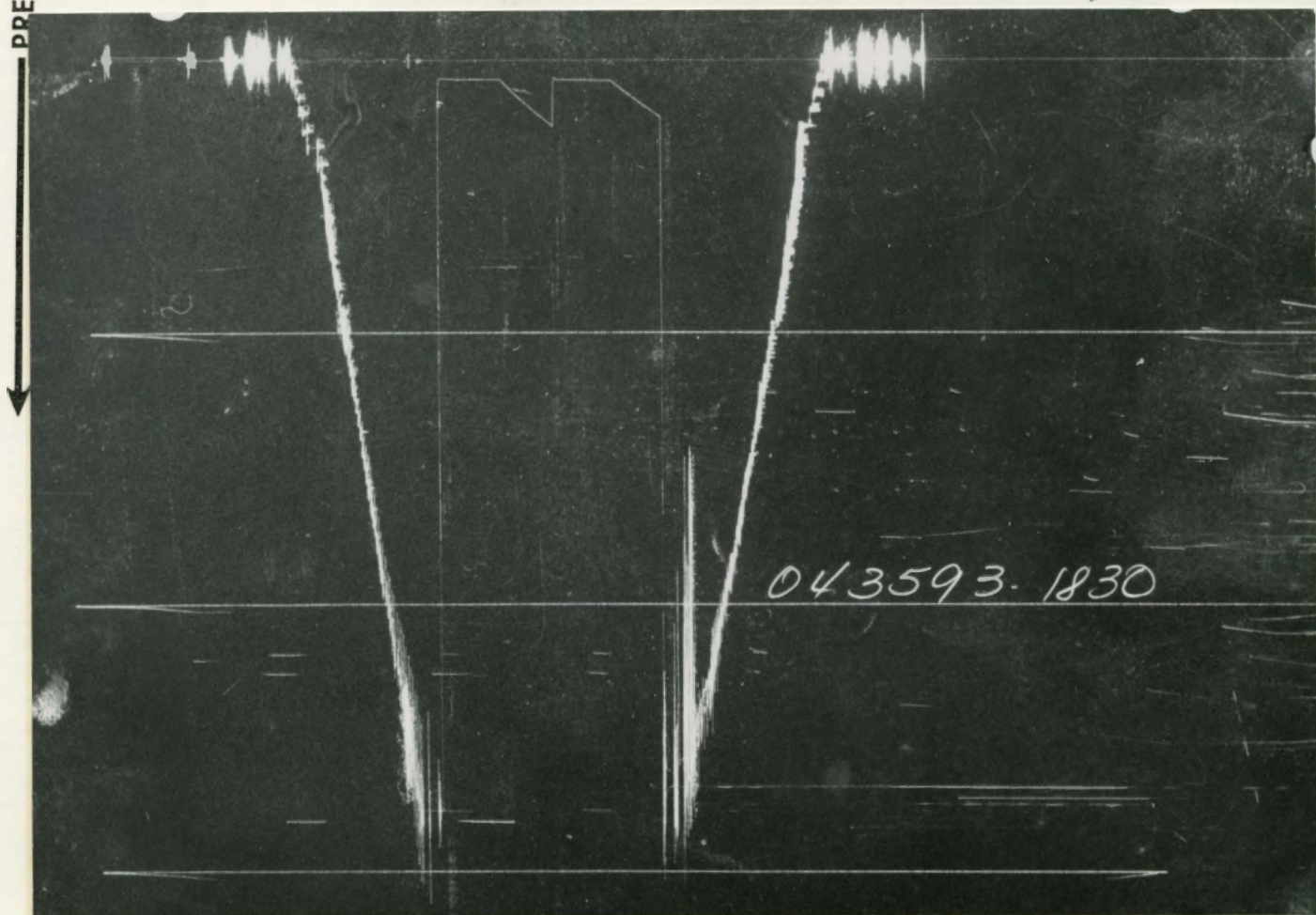
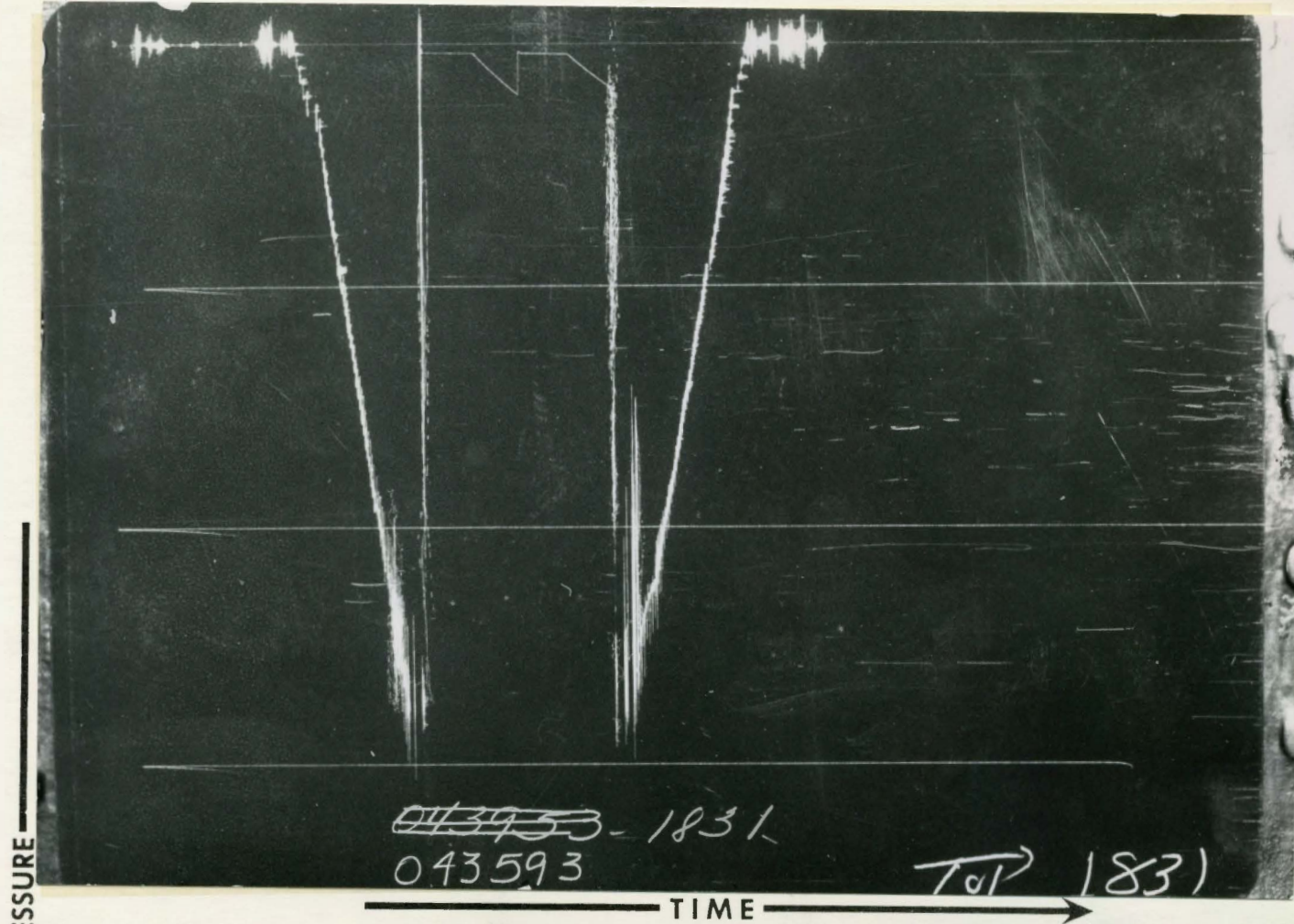
5279-5350'
Tested Interval

PETROLEUM INCORPORATED
Lease Owner/Company Name



HALLIBURTON SERVICES

DUNCAN, OKLAHOMA



Each Horizontal Line Equal to 1000

BEELEY

Lease Name

1
Well No.2
Test No.5279-5350'
Tested Interval

PETROLEUM INCORPORATED

Lease Owner/Company Name

Legal Location
Sec. - Twp. - Rnd.

7 3S 16 W

Field
Area

WILDCAT

County

COMANCHE

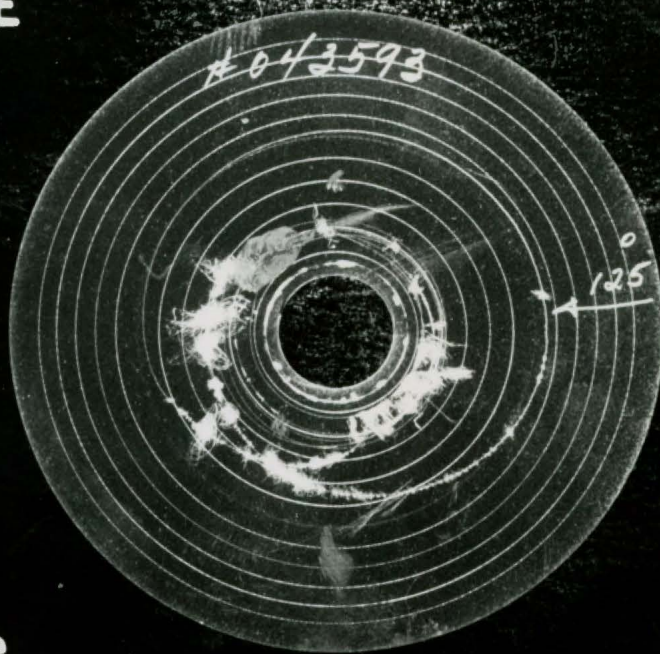
State

KANSAS

FLUID SAMPLER DATA				Date 5-7-69		Ticket Number 043593	
Sampler Pressure _____ P.S.I.G. at Surface				Kind of Job OPEN HOLE		Halliburton District PRATT	
Recovery: Cu. Ft. Gas _____				Tester BILL THOMPSON		Witness ROGER MC COY	
cc. Oil _____				Drilling Contractor GARVEY sm			
cc. Water _____				EQUIPMENT & HOLE DATA			
cc. Mud _____				Formation Tested Mississippi			
Tot. Liquid cc. _____				Elevation _____ 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 5350' _____ Ft.			
Recovery Water _____ @ _____ °F. _____ ppm				Main Hole/Casing Size 7 7/8"			
Recovery Mud _____ @ _____ °F. _____ ppm				Drill Collar Length 720 I.D. 2 1/2"			
Recovery Mud Filtrate _____ @ _____ °F. _____ ppm				Drill Pipe Length _____ I.D. 2 1/2"			
Mud Pit Sample _____ @ _____ °F. _____ ppm				Packer Depth(s) 5274-5275' _____ Ft.			
Mud Pit Sample Filtrate _____ @ _____ °F. _____ ppm				Depth Tester Valve 5255' _____ Ft.			
Mud Weight 9.6 vis 32 cp							
TYPE		AMOUNT		Depth Back		Surface	
Cushion				Ft. Pres. Valve		Choke 1" Bottom Choke 3/4"	
Recovered		Feet of		Meo. From Tester Valve			
Recovered 30		Feet of mud					
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Remarks Tool opened for a 30 minute first flow. Closed for a 30 minute initial closed in pressure. Tool reopened for a 30 minute second flow and closed for a 30 minute second closed in pressure.							
71' anchor 40' 5" and one DC 6"							
TEMPERATURE		Gauge No. 1831		Gauge No. 1830		Gauge No.	
Depth:		5265 Ft.		5346 Ft.		Depth: _____ Ft.	
Est. _____ °F.		12 Hour Clock		12 Hour Clock		Hour Clock	
Blanked Off NO		Blanked Off YES		Blanked Off		Tool _____ A.M.	
5344' @		Pressures		Pressures		Opened 1:50 P.M.	
Actual 125 °F.		Pressures		Pressures		Tool _____ A.M.	
		Field Office		Field Office		Closed 3:50 P.M.	
Initial Hydrostatic		2446 2642		2679 2685		Reported _____ Computed _____	
First Flow Initial		28 36		56 69		Minutes _____ Minutes _____	
Flow Final		37 40		65 70		30 _____	
Closed in		213 212		241 241		30 _____	
Second Flow Initial		37 35		65 66		_____ _____	
Flow Final		46 44		74 74		30 _____	
Closed in		194 176		213 209		30 _____	
Third Flow Initial						_____ _____	
Flow Final						_____ _____	
Closed in						_____ _____	
Final Hydrostatic		2627 2639		2661 2680		_____ _____	

	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub	5 5/8"	2"	1 1/2'	
Water Cushion Valve				
Drill Pipe	4 1/2" FH	2 1/2"		
Drill Collars	6"	2 1/2"	900'	
Handling Sub & Choke Assembly	5 3/4"	2 1/2"	2 1/2'	
Dual CIP Valve	5"	3/4"	6'	
Dual CIP Sampler				
Hydro-Spring Tester	5"	3/4"	5'	
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	2 1/2"	4'	
Hydraulic Jar	5"	3/4"	4'	
VR Safety Joint	5"	1 1/2"	2 1/2'	
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1"	4'	
Distributor				
Packer Assembly				
Flush Joint Anchor	5"	2 1/2"		
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case				
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Woll Anchor				
Drill Collars				
Flush Joint Anchor				
Blanked-Off B.T. Running Case				

TEMPERATURE RECORDER CHART

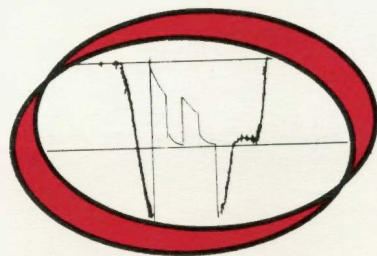


10° each circle

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

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

Formation Testing Service Report



Lease Name **BEELEY**

Well No. **1**

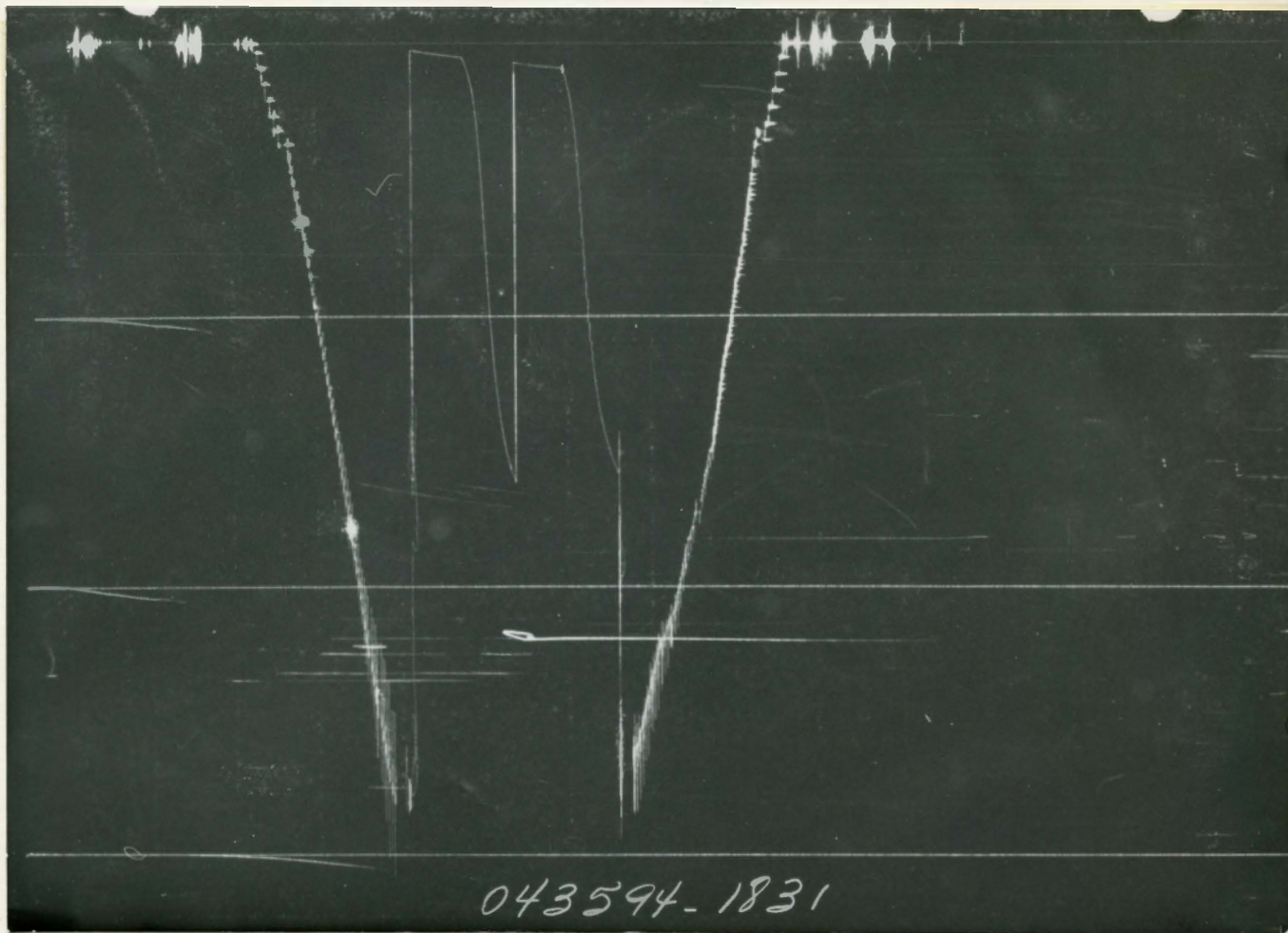
Test No. **3**

Tested Interval **5350' - 5380'**

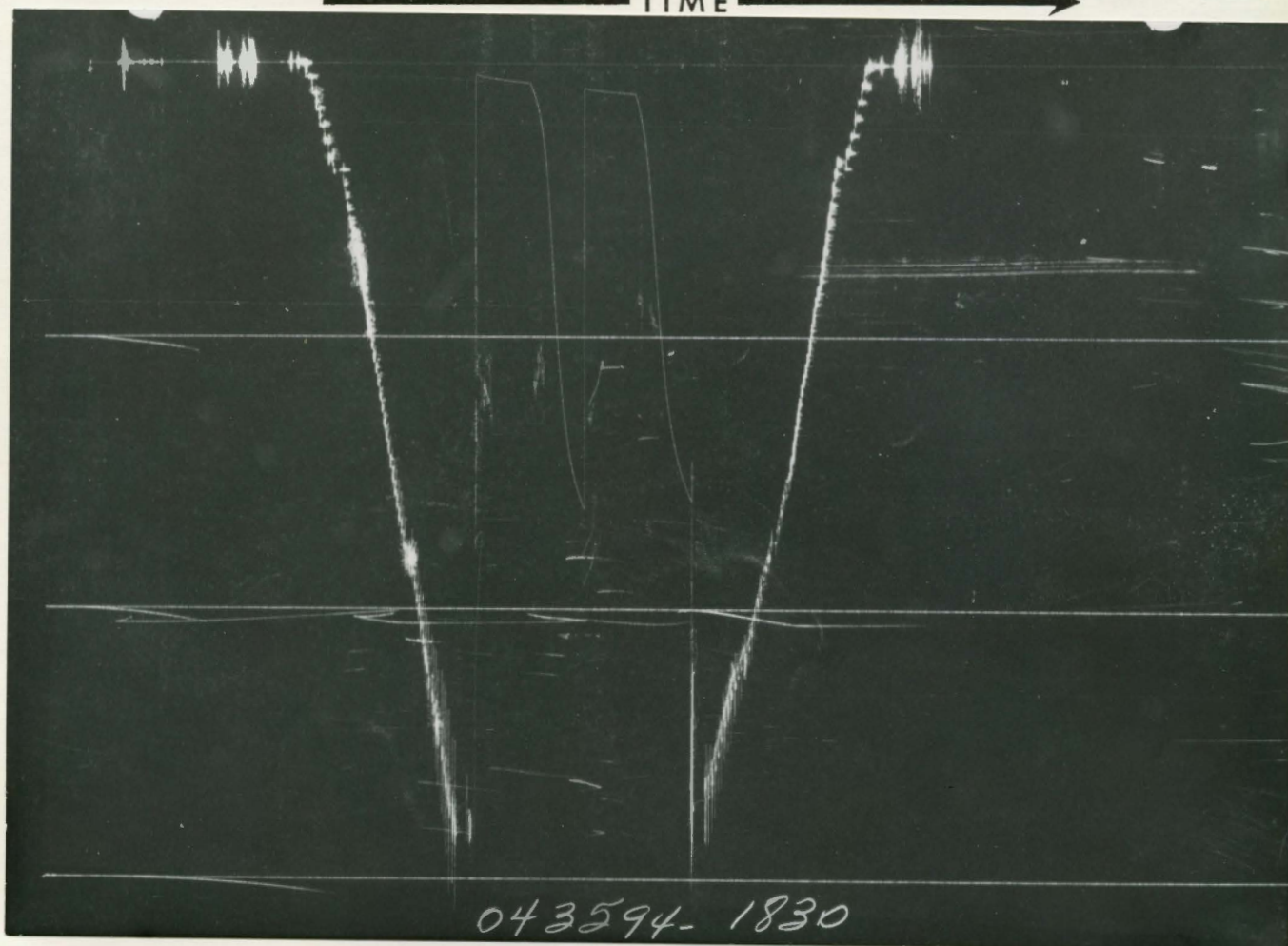
Lease Owner/Company Name **PETROLEUM INCORPORATED**

HALLIBURTON SERVICES
DUNCAN, OKLAHOMA

PRESSURE



TIME



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

FLUID SAMPLER DATA				Date 5-8-69		Ticket Number 043594	
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 Job OPEN HOLE		Halliburton District PRATT	
				Tester MR. THOMPSON		Witness MR. MC COY	
				Drilling Contractor GARVEY DRILLING COMPANY IC S			
				EQUIPMENT & HOLE DATA			
				Formation Tested Mississippi			
				Elevation _____ Ft.			
				Net Productive Interval - Ft.			
				All Depths Measured From Kelly Bushings			
				Total Depth 5380' Ft.			
				Main Hole/Casing Size 7 7/8"			
				Drill Collar Length 220'		I.D. 2 1/2"	
				Drill Pipe Length -		I.D. _____	
				Packer Depth(s) 5350' - 5345' Ft.			
				Depth Tester Valve 5325' Ft.			
				TYPE AMOUNT Depth Back Surface Bottom Cushion - Ft. Pres. Valve - Choke 1" Choke 3/4"			
Recovered 150 Feet of Mud							
Recovered Feet of							
Recovered Feet of							
Recovered Feet of							
Recovered Feet of							
Remarks Opened tool for 30 minute 1st flow. Closed tool for 30 minute initial closed in pressure. Reopened tool for 28 minute second flow period. Closed tool for 32 minute second closed in pressure.							
ANCHOR: 5" PERF. x 30'							
TEMPERATURE		Gauge No. 1831 Depth: 5335' Ft.	Gauge No. 1830 Depth: 5376' Ft.	Gauge No. _____ Depth: _____ Ft.	TIME		
Est. - °F.		12 Hour Clock Blanked Off NO	12 Hour Clock Blanked Off YES	Hour Clock Blanked Off	Tool A.M. Opened 6:15 P.M.		
5374' Actual 126 °F.		Pressures	Pressures	Pressures	Tool A.M. Closed 8:15 P.M.		
	Field	Office	Field	Office	Field	Office	Reported Minutes
First Period	Initial Hydrostatic	2717	2692	2717	2715		Computed Minutes
	Flow Initial	28	26	28	40		
	Flow Final	65	51	65	71		
	Closed in	1632	1608	1632	1626		30 30
Second Period	Flow Initial	65	69	65	91		
	Flow Final	102	90	102	110		30 28
	Closed in	1605	1576	1604	1596		30 32
Third Period	Flow Initial						
	Flow Final						
	Closed in						
	Final Hydrostatic	2698	2679	2698	2701		

 Legal Location
 Sec. - Twp. - Rng.

SEC. 7 - 35 - 16W

 Field Area
 WILDCAT

County

COMANCHE

State

KANSAS

 Well Name
 BEBLEY

 Well No.
 1

 Test No.
 3

 Tested Interval
 5350' - 5380'

 Lease Owner/Company Name
 PETROLEUM INVESTMENTS

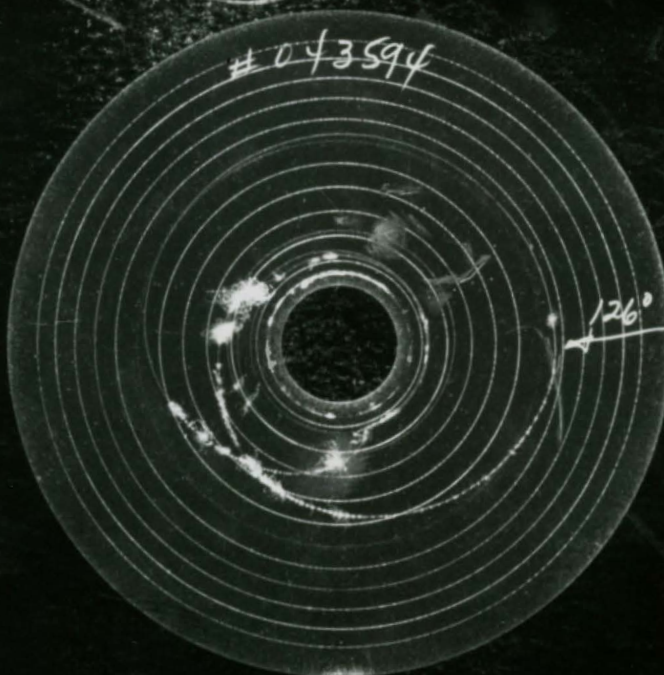
Gauge No. 1831			Depth 5335'			Clock No. -			12 hour	Ticket No. 043594					
First Flow Period			First Closed In Pressure			Second Flow Period		Second Closed In Pressure			Third Flow Period		Third Closed In Pressure		
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log} \frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log} \frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log} \frac{t + \theta}{\theta}$	PSIG Temp. Corr.
0	.000	26	.000		51	.000	69	.000		90					
1	.0338	31	.0209		97	.0485	77	.0271		198					
2	.0676	35	.0418		181	.0970	82	.0542		435					
3	.1014	40	.0627		348	.1455	87	.0813		778					
4	.1352	44	.0836		636	.1940	90	.1084		1093					
5	.1690	47	.1045		954			.1355		1308					
6	.2030	51	.1254		1197			.1626		1437					
7			.1463		1362			.1897		1520					
8			.1672		1485			.2170		1576					
9			.1881		1556										
10			.2090		1608										
11															
12															
13															
14															
15															

Gauge No. 1830			Depth 5376'			Clock No.			12 hour						
0	.000	40	.000		71	.000	91	.000		110					
1	.036	49	.0216		125	.0508	97	.0285		220					
2	.072	55	.0432		217	.1015	103	.0570		441					
3	.108	59	.0648		379	.1523	107	.0855		803					
4	.144	64	.0864		669	.2030	110	.1140		1115					
5	.180	68	.1080		995			.1425		1319					
6	.216	71	.1296		1233			.1710		1452					
7			.1512		1394			.1995		1536					
8			.1728		1495			.2280		1596					
9			.1944		1569										
10			.2160		1626										
11															
12															
13															
14															
15															
Reading Interval 5			3			7			4			Minutes			

REMARKS:

	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub	5 5/8"	2"	1 1/2'	
Water Cushion Valve				
Drill Pipe	4 1/2" FH	2 1/4"	-	
Drill Collars	6'	2 1/2"	900'	
Handling Sub & Choke Assembly	5 3/4"	2 1/4"	2 1/2"	
Dual CIP Valve	5"	3/4"	6'	
Dual CIP Sampler				
Hydro-Spring Tester	5"	3/4"	5'	
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	2 1/4"	4'	
Hydraulic Jar	5"	3/4"	4'	
VR Safety Joint	5"	3/4"	2 1/2'	
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1"	4'	
Distributor				
Packer Assembly				
Flush Joint Anchor	5"	2 1/4"	30'	
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case				
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor				
Blanked-Off B.T. Running Case				

TEMPERATURE RECORDER CHART



10° each circle

OF_3	= Theoretical Open Flow Potential with/Damage Removed Max.	MCF/D
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_{ot}	= 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	—
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.

GARVEY DRILLING COMPANY

TESTING DIVISION

No 3278

Company P.T. INC. Lease & Well No. Becky C-1

Elevation _____ Ticket Number _____

Date 5-11-69 Sec. _____ Twp. _____ Range _____ County COMANCHE State KANSAS

Test Approved by Roy Dambaugh Garvey Representative Doyle Folkerts

Formation Test No. 4 O.K. ☒ Misrun ☐ Interval Tested From 5761 to 5853 Total Depth 5853

Size Main Hole 7 7/8 Rat Hole _____ Conv. ☒ B.T. ☐ Damaged ☐ Yes ☒ No ☐ Conv. ☒ B.T. ☐ Damaged ☒ Yes ☐ No ☐

Packer Depth 5755 Ft. Size 6 3/4 Packer Depth 5761 Ft. Size 6 3/4

Straddle ☐ Yes ☒ No ☐ Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No ☐

Packer Depth _____ Ft. Size _____

Tool Size 5" Tool Jt. Size 5 1/2" Anchor Length 92 Ft. Size 4 1/2 FH

RECORDERS Depth 5766 Ft. Clock No. 8701 Depth 5769 Ft. Clock No. 118

Top Make Kuster Cap 4300 No 2774 Inside Outside Bottom Make Western Cap 4000 No 51 Inside Outside

Below Straddle: Depth _____ Clock No. _____ O outside Inside Depth _____ Ft. Clock No. _____ Outside Inside

Top Make _____ Cap _____ No _____ Outside Inside Bottom Make _____ Cap _____ No _____ O outside Inside

Time Set Packer 10:01 AM

Tool Open I.F.P. From 10:03 M. to 10:33 M. - Hr. 30 Min. From (B) 91 P.S.I. To (C) 79 P.S.I.

Tool Closed I.C.I.P. From 10:33 M. to 11:03 M. - Hr. 30 Min. (D) 1272 P.S.I.

Tool Open F.F.P. From 11:03 M. to 11:33 M. - Hr. 30 Min. From (E) 57 P.S.I. To (F) 57 P.S.I.

Tool Closed F.C.I.P. From 11:33 M. to 12:03 M. - Hr. 30 Min. (G) 1250 P.S.I.

Initial Hydrostatic Pressure (A) 2863 P.S.I. Final Hydrostatic Pressure (H) 2863 P.S.I.

SURFACE Size Choke 1 In. Max. Press. P.S.I. _____ Time _____ Description of Flow _____

INFORMATION 15 Min. 2.4 w/20m. 10:24 M. 53,740

30 LI 1.8 " 10:33 M. 46,560

45 LI 2 " 11:03 M. 49,800

BLOW Good 2 11:33 49,800 Bottom Choke Size 1/2 in.

Did Well Flow ☐ Yes ☒ No Recovery Total Ft. 625 to surface 14 Min.

200' Gas Lift Mud

Reversed Out ☐ Yes ☒ No Mud Type Slud Viscosity 43 Weight 916 Maximum Temp. 122 F

EXTRA EQUIPMENT: Dual Packers Yes Safety Joint Yes Jars: Size 3 1/2 Make WOM Ser. No. 4th Fishing

Type Circ. Sub Knack off Did Tool Plug? NO Where? _____ Did Packer Hold? Yes

Length Drill Pipe 5161 ft. I.D. Drill Pipe 3 1/2 in. Length Weight Pipe _____ ft. I.D. Weight Pipe _____ in. Length Drill Collars 570 ft.

I.D. Drill Collars 2 1/4 in. Length D.S.T. Tool 122 ft.

Remarks _____

RECEIVED

MAY 23 1969

PETROLEUM, INC.
Geological Dept.

3278

