



P. O. BOX 793 PHONE 793-7903
GREAT BEND, KANSAS

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 12638

Elevation _____ Formation MAYMATON Eff. Pay _____ Ft. _____

District DRATT Date 5-25-69 Customer Order No. _____

COMPANY NAME Clid Tool Oil Company ADDRESS _____

LEASE AND WELL NO. 1-V Boles COUNTY Seward STATE Ks Sec. 35 Twp. 34 Range 6

Mail Inv. To _____ Co. Name SAME Address _____ No. Copies Requested Reg

Mail Charts To _____ Address SAME No. Copies Requested Reg

Formation Test No. 1 O.K. Misrun Interval Tested From 5236 to 5389 Total Depth 5389

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

Packer Depth 5231 Ft. Size 6 3/4 Packer Depth 5236 Ft. Size 6 3/4

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

Packer Depth _____ Ft. Size _____

Tool Size 5 1/2 OD Tool Jt. Size 4 1/2 FH Anchor Length 153 Ft. Size 112'-D.C 41-5 1/2

RECORDERS Depth 5263 Ft. Clock No. 6866 Depth 5266 Ft. Clock No. 8377

Top Make KUSTER Cap. 4500 No. 3085 Inside Outside Bottom Make KUSTER Cap. 4400 No. 2603 Inside Outside

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

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

Time Set Packer 3:49 P M

Tool Open I.F.P. From 3:55 M. to 4:10 M. - Hr. 15 Min. From (B) 215 P.S.I. To (C) 612 P.S.I.

Tool Closed I.C.I.P. From 4:10 M. to 4:40 M. - Hr. 30 Min. (D) 1453 P.S.I.

Tool Open F.F.P. From 4:40 M. to 5:25 M. - Hr. 45 Min. From (E) 676 P.S.I. To (F) 1106 P.S.I.

Tool Closed F.C.I.P. From 5:25 M. to 5:55 M. - Hr. 30 Min. (G) 1302 P.S.I.

Initial Hydrostatic Pressure (A) 2588 P.S.I. Final Hydrostatic Pressure (H) 2554 P.S.I.

SURFACE Size Choke 3/4 In. Max. Press. P.S.I. _____ Time _____ Description of Flow _____

INFORMATION _____ M. _____ M. _____ M. _____

BLOW Good Bottom Choke Size 3/4 In.

Did Well Flow Yes No Recovery Total Ft. 2250 TOTAL - 365' mud - 1890 SALT WATER

Reversed Out Yes No Mud Type STARCH Viscosity 34 Weight 8.9 Water Loss 8 cc. Maximum Temp _____ °F

Type Circ. Sub. Plug Did Tool Plug? No Jars: Size 4 1/2 OD Make WTC Ser. No. 408

EXTRA EQUIPMENT: Dual Packers Safety Joint Did Packer Hold? Where? _____

Length Drill Pipe 4805 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe _____ ft. I.D. Weight Pipe _____ in. Length Drill Collars 514 ft.

I. D. Drill Collars 2 1/4 in. Length D.S.T. Tool 70 ft.

Remarks _____

COMPANY TERMS Western Testing Co., Inc., shall not be liable for damage of any kind to 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 at cost by the party for whom the test is made.

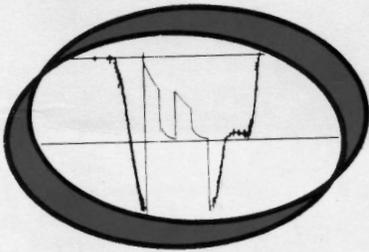
All charges subject to 6% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

INVOICE SECTION	
Open Hole Test	\$ <u>255.00</u>
Straddle Test	\$ <u>95.00</u>
Jars	\$ _____
Selective Zone	\$ _____
Safety Joint	\$ <u>N.C.</u>
Misrun	\$ _____
Evaluation	\$ _____
Total	\$ <u>350.00</u>

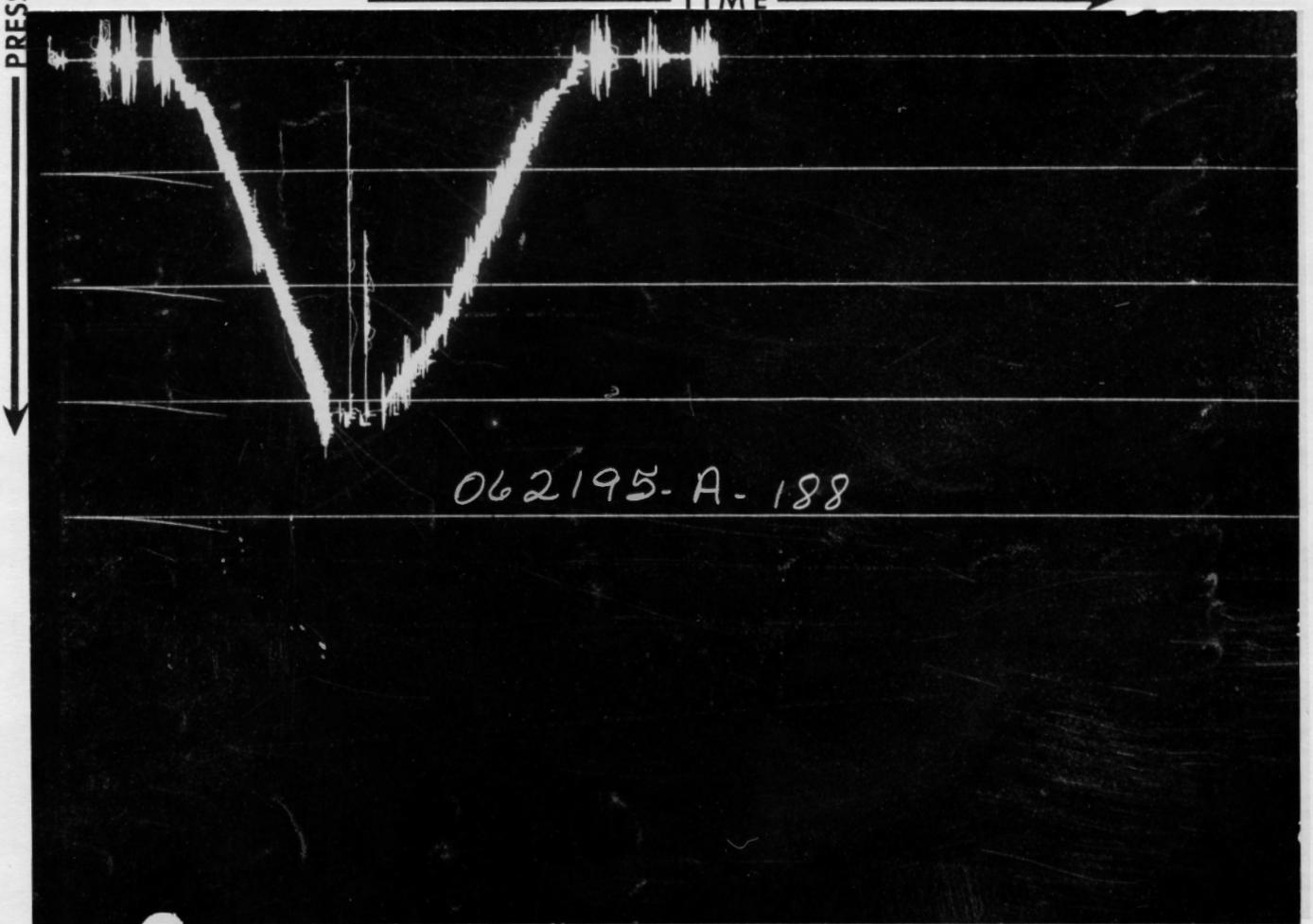
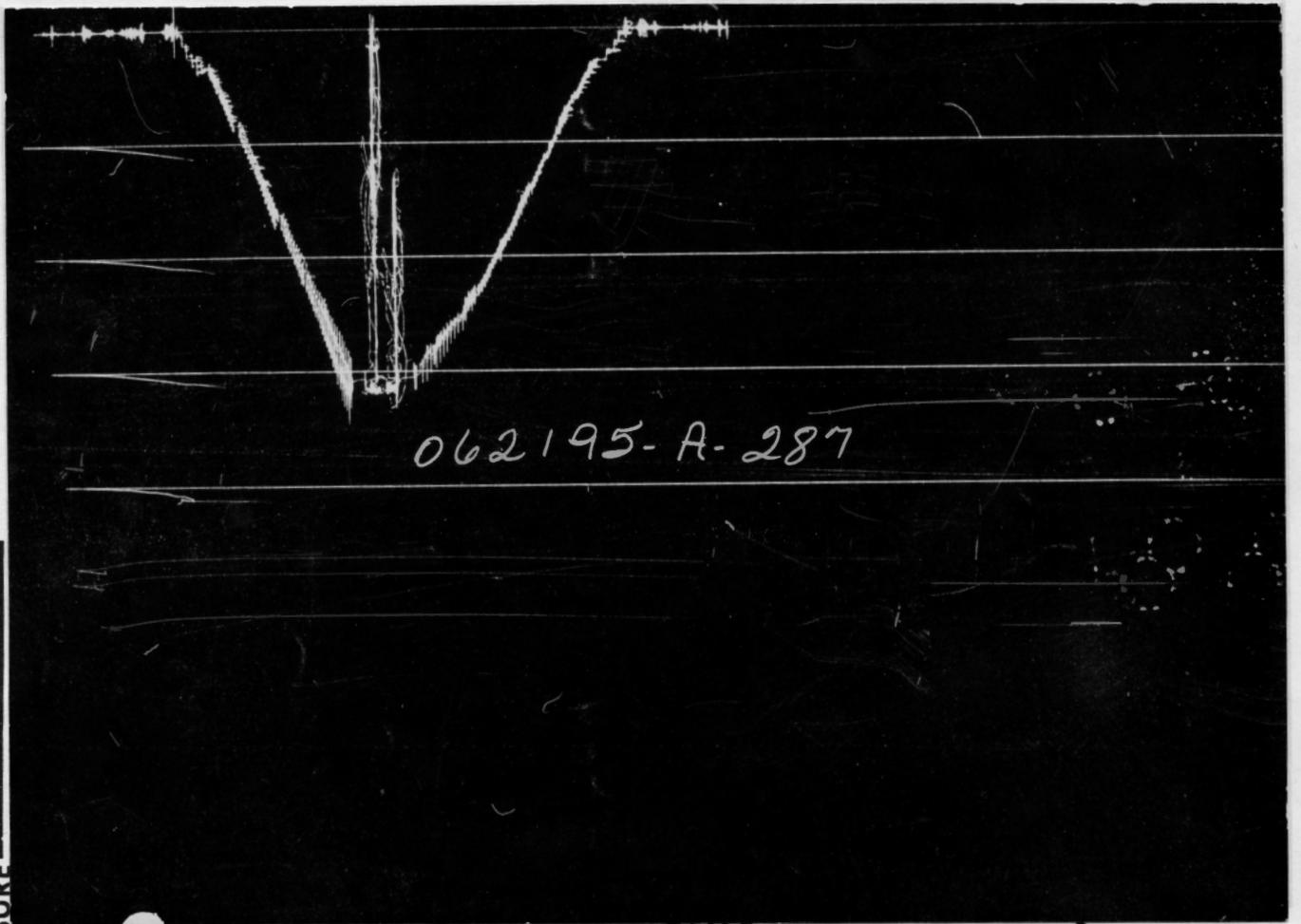
Test Approved By W.R. Robinson Western Representative Leon Elmore

Signature of Customer or his Authorized Representative Operator's Time _____ Hrs. _____

Formation Testing Service Report



BOLES
I-V
Well No.
7
Test No.
0444-0702
Tested Interval
Well Name
Lester Owner/Company Name



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

FLUID SAMPLER DATA

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.

RESISTIVITY CHLORIDE CONTENT

Recovery Water _____ @ _____ °F. _____ ppm
 Recovery Mud _____ @ _____ °F. _____
 Recovery Mud Filtrate _____ @ _____ °F. _____ ppm
 Mud Pit Sample _____ @ _____ °F. _____
 Mud Pit Sample Filtrate _____ @ _____ °F. _____ ppm
 Mud Weight _____ vis _____ cp

Date 5-28-69 Ticket Number 062195-A

Kind of Job OPEN HOLE Halliburton District WOODWARD

Tester MR. BOWEN MR. HOWARD Witness MR. ATKINSON

Drilling Contractor GARVEY DRILLING COMPANY IC

EQUIPMENT & HOLE DATA

Formation Tested Morrow Sand
 Elevation 2969' Ft.
 Net Productive Interval 6241'-6273' Ft.
 All Depths Measured From Kelly Bushings
 Total Depth 6285' Ft.
 Main Hole/Casing Size 7 7/8" HOLE - 8 5/8" CASING
 Drill Collar Length 594' I.D. 2 1/4"
 Drill Pipe Length 5614' I.D. 3.826"
 Packer Depth(s) 6239'-6244' Ft.
 Depth Tester Valve 6221' Ft.

TYPE	AMOUNT	Depth Back Pres. Valve	Surface Choke	Bottom Choke
Cushion	-	Ft.	-	-
Recovered	- Feet of			
Recovered	- Feet of			
Recovered	- Feet of			
Recovered	- Feet of			
Recovered	- Feet of			

Remarks Ran tools to total depth. Unable to get packer seat on two attempts. Came out of hole to shorten anchor length 7'.
 MISRUN.....MISRUN.....MISRUN

TEMPERATURE	Gauge No. 287		Gauge No. 188		Gauge No.		TIME	
	Depth: 6224'	Ft.	Depth: 6282'	Ft.	Depth:	Ft.	Hour Clock	
Est. 140 °F.	12	Hour Clock	12	Hour Clock	Blanked Off		Tool Opened	A.M. - P.M.
Actual °F.	Pressures		Pressures		Pressures		Tool Closed	A.M. - P.M.
Initial Hydrostatic	Field -	Office 3073	Field -	Office 3102	Field	Office	Reported Minutes	Computed Minutes
First Period	Flow Initial							
	Flow Final							
	Closed in							
Second Period	Flow Initial							
	Flow Final							
	Closed in							
Third Period	Flow Initial							
	Flow Final							
	Closed in							
Final Hydrostatic	Field -	Office 3057	Field -	Office 3086				

Legal Location Sec. - Twp. - Rng. 6 - 35S - 34W

Lease Name BOLES

Well No. 1-V

Test No. 2

Field Area W. LIBERAL

County SEWARD

State OKLAHOMA

Tested Interval 6244'-6285'

Lease Owner/Company Name GILFON OIL COMPANY



	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub	5 3/4"	2.75"	12"	
Water Cushion Valve				
Drill Pipe	4 1/2"	3.826"	5614'	
Drill Collars	6"	2 1/4"	594'	
Handling Sub & Choke Assembly	5 3/4"	3.16"	66"	
Dual CIP Valve	5"	.87"	58 1/2"	
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	60"	5221'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	2.25"	48 1/2"	6224'
Hydraulic Jar	5"	1 3/4"	60"	
VR Safety Joint	5"	1.0"	33.40"	
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1.53"	4.65'	6239'
Distributor				
Packer Assembly	6 3/4"	1.53"	4.65	6244'
Flush Joint Anchor				
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	5 3/4"	2.87"	34'	
Blanked-Off B.T. Running Case	5 3/4"	2.50"	6'	6282'

Formation Testing Service Report

BOLES

Area Name

V-1

Well No

3

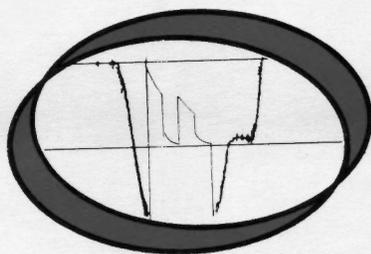
Test No

6251'-6285'

Test Interval

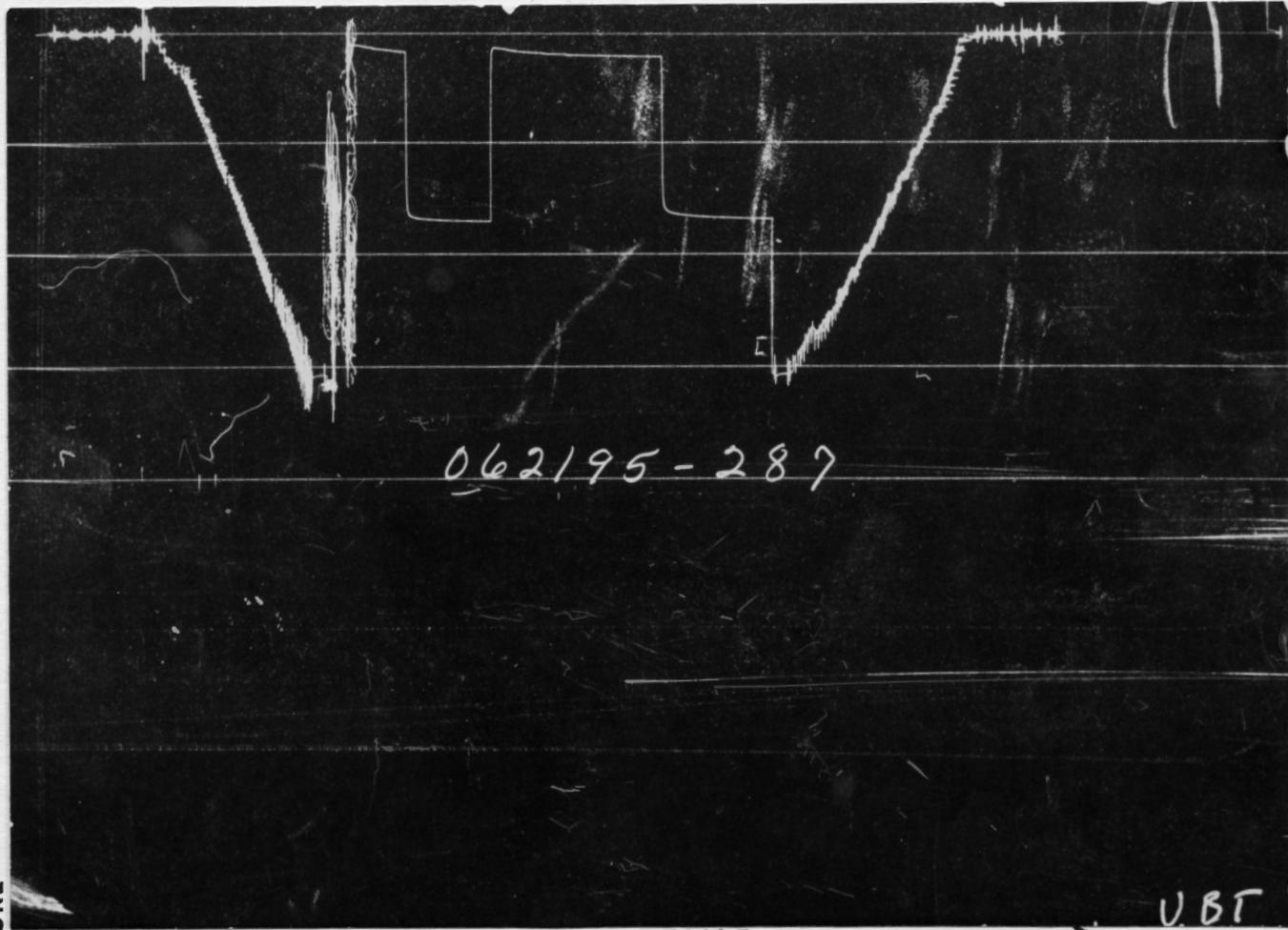
CLINTON OIL COMPANY

Area Owner/Company Name



HALLIBURTON SERVICES

DUNCAN, OKLAHOMA



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

BOLES
 Lease Name
 V-1
 Well No.
 3
 Test No.
 6251'-6285'
 Tested Interval
 CLINTON OIL COMPANY
 Lease Owner/Company Name

Legal Location
 Sec. - Twp. - Rng.
 6-35S-34W
 Field Area
 W. LIBERAL
 County
 SEWARD
 State
 KANSAS

FLUID SAMPLER DATA

Date 5-28-69 Ticket Number 062195

Kind of Job OPEN HOLE Halliburton District WOODWARD

Tester MR. BOWEN MR. HOWARD Witness MR. ATKINSON

Drilling Contractor GARVEY DRILLING COMPANY DR S

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.

RESISTIVITY _____ CHLORIDE CONTENT _____

Recovery Water _____ @ _____ °F. _____ ppm
 Recovery Mud _____ @ _____ °F. _____
 Recovery Mud Filtrate _____ @ _____ °F. _____ ppm
 Mud Pit Sample _____ @ _____ °F. _____
 Mud Pit Sample Filtrate _____ @ _____ °F. _____ ppm
 Mud Weight 8.9 vis 42 cp

EQUIPMENT & HOLE DATA

Formation Tested Morrow Sand

Elevation 2969 Ft.

Net Productive Interval 6241'-6273' Ft.

All Depths Measured From Kelly Bushing

Total Depth 6285 Ft.

Main Hole/Casing Size 7 7/8" Hole 8 5/8" CSG

Drill Collar Length 594 I.D. 2 3/4

Drill Pipe Length 5621 I.D. 3.826

Packer Depth(s) 6246 - 6251 Ft.

Depth Tester Valve 6221 Ft.

Cushion	TYPE	AMOUNT	Depth Back Pres. Valve	Surface Choke	Bottom Choke
	-			5/8"	5/8"

Recovered	140	Feet of	gas cut mud	Meas. From Tester Valve
Recovered		Feet of		
Recovered		Feet of		
Recovered		Feet of		
Recovered		Feet of		

Remarks Opened tool for 31 minute first flow with a good blow, gas to surface 6 minutes, 16 PSI-56 PSI. Closed tool for 46 minutes first closed in pressure. Reopened tool for 90 minutes second flow, pressure at surface, gas, from 15 to 87 PSI. Closed tool for 58 minute second closed in pressure.

TEMPERATURE	Gauge No. 287		Gauge No. 188		Gauge No.		TIME
	Depth:	6231 Ft.	Depth:	6281 Ft.	Depth:	Ft.	
Est. °F.	12 Hour Clock		12 Hour Clock		Hour Clock		Tool Opened 7:34 A.M. P.M.
Actual 142 °F.	Blanked Off NO		Blanked Off YES		Blanked Off		Tool Closed 11:19 A.M. P.M.
	Pressures		Pressures		Pressures		Reported Minutes
	Field	Office	Field	Office	Field	Office	Computed Minutes
Initial Hydrostatic	3192	3076	3257	3105			
First Period	Flow Initial	105	100	140	195		
	Flow Final	163.6	168	191	207		
	Closed in	1676	1697	1709	1709		
Second Period	Flow Initial	140.3	280	150	291		
	Flow Final	210.3	208	233	230		
	Closed in	1676	1676	1709	1677		
Third Period	Flow Initial						
	Flow Final						
Closed in							
Final Hydrostatic	3055	3062	3120	3086			

Casing perms. _____ Bottom choke 5/8" Surf. temp 80 °F Ticket No. 062195
 Gas gravity _____ Oil gravity _____ GOR _____
 Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F

Date	Time	Choke Size	Surface Pressure psi	Gas Rate MCF	Liquid Rate BPD	Remarks
5-23-69						
	7:34	5/8"	0			Open tool with a good blow
						IFP 30 minutes
	7:39	5/8"	12			Excellent blow
	7:40	5/8"	16	310		Gas to surface
	7:44	5/8"	27	410		"
	7:49	"	40	550		"
	7:54	"	48	630		"
	7:59	"	54	690		"
	8:04	"	56	710		"Close tool for 46 minute CIP
		"				
	8:49	"	15	300		Open tool FFP
	8:54	"	37	520		Gas
	8:59	"	53	680		"
	9:04	"	65	800		"
	9:09	"	70	850		"
	9:19	"	76	910		"
	9:29	"	79	940		"
	9:39	"	81	960		"
	9:49	"	83	980		"
	9:59	"	85	1,000		"
	10:09	"	86	1,100		"
	10:19	"	87	1,200		" Close tool
						FCIP
	11:19					Unseat packer start out of hole

	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub	5 3/4	2.75	12	
Water Cushion Valve				
Drill Pipe	4 1/2	3.826	5621	
Drill Collars	6	2 1/2	594	
Handling Sub & Choke Assembly	5 3/4	3.16	66	
Dual CIP Valve	5	.87	58 1/2	
Dual CIP Sampler				
Hydro-Spring Tester	5	.75	60	6228
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5	2.25	48 1/2	6231
Hydraulic Jar	5	1 3/4	60	
VR Safety Joint	5	1.0	33.40	
Pressure Equalizing Crossover				
Packer Assembly	6 3/4	1.53	4.65	6251
Distributor				
Packer Assembly				
Flush Joint Anchor				
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	5 3/4	2.87	27	
Blanked-Off B.T. Running Case	5 3/4	2.50	6	6281

Formation Testing Service Report

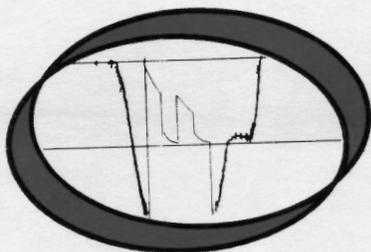
Lease Name **BOLES**

Well No. **V-1**

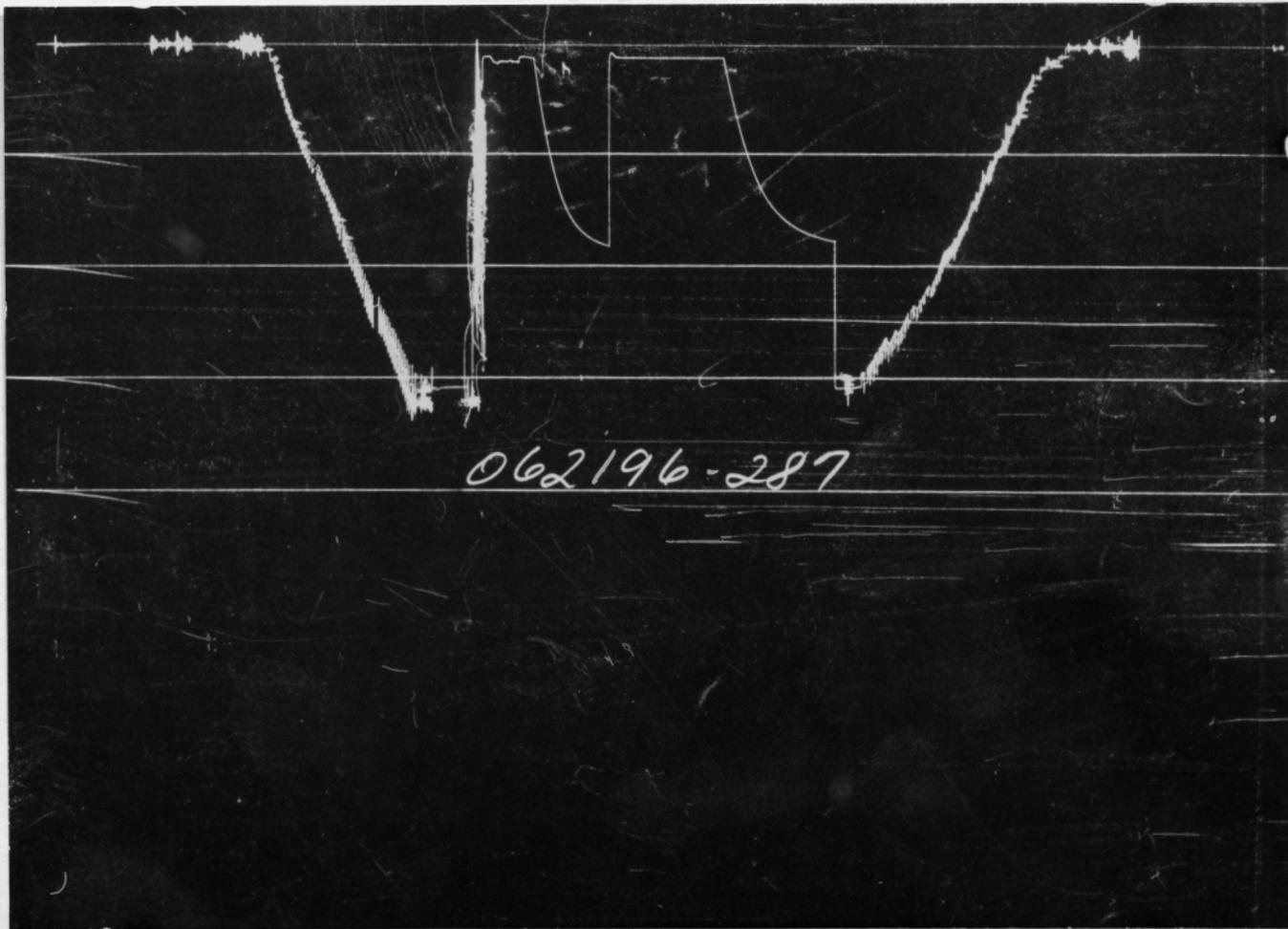
Test No. **4**

Tested Interval **6306-6360'**

Lease Owner/Company Name **CLINTON OIL COMPANY**

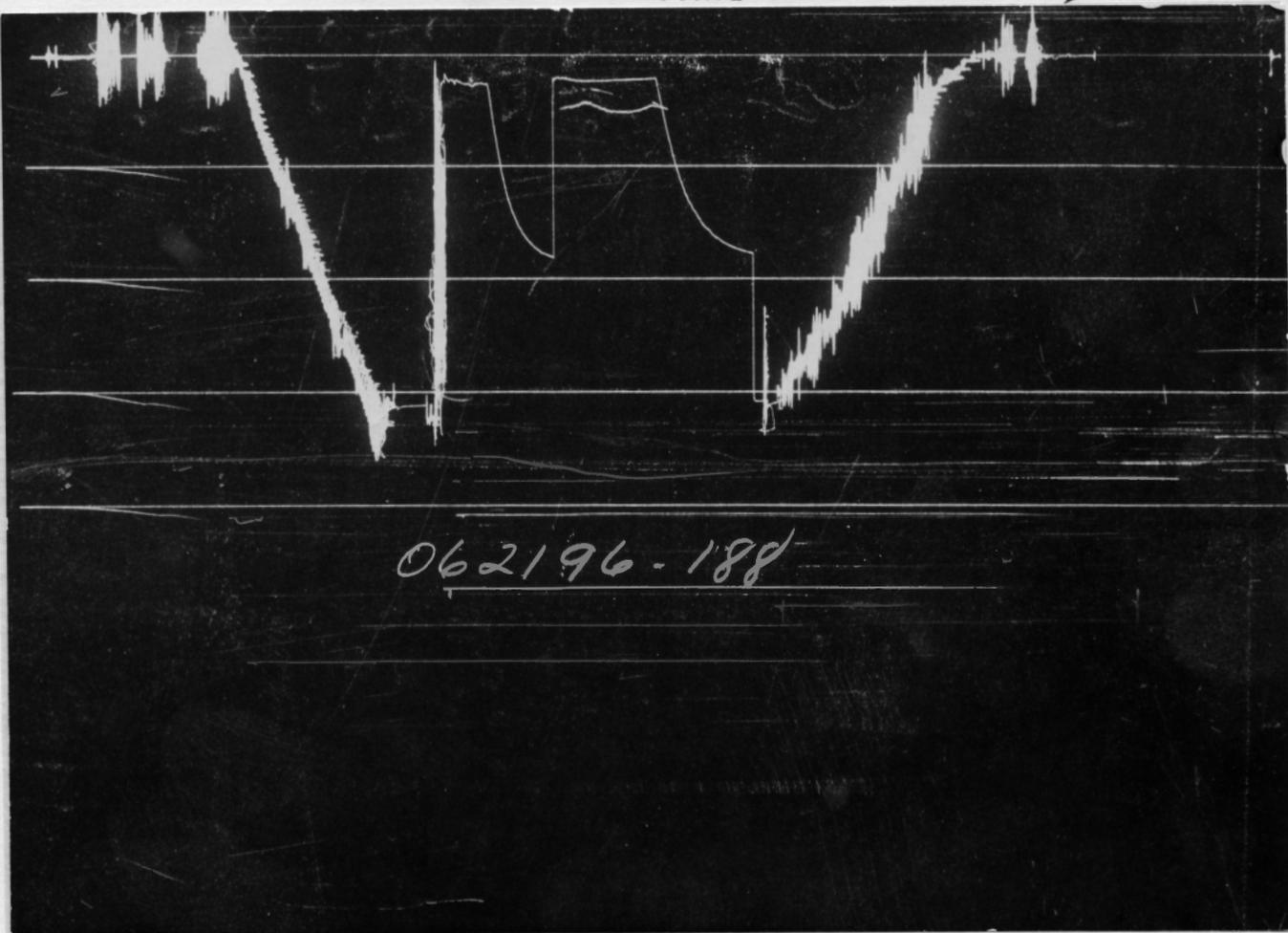


HALLIBURTON SERVICES
DUNCAN, OKLAHOMA



↑
PRESSURE
↓

← TIME →



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

Lease Location: **6 35S 34N**
 Lease Name: **BOLES**
 Well No.: **V-1**
 Test No.: **4**
 Field Area: **W. LIBERAL**
 County: **SEWARD**
 State: **KANSAS**
 Tested Interval: **6306-6360'**
 Lease Owner/Company Name: **CLINTON OIL COMPANY**

FLUID SAMPLER DATA
 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.
 RESISTIVITY _____ CHLORIDE CONTENT _____
 Recovery Water _____ @ _____ ° F. _____ ppm
 Recovery Mud _____ @ _____ ° F. _____
 Recovery Mud Filtrate _____ @ _____ ° F. _____ ppm
 Mud Pit Sample _____ @ _____ ° F. _____
 Mud Pit Sample Filtrate _____ @ _____ ° F. _____ ppm
 Mud Weight **9.1** vis **25** cp

Date **5-29-69** Ticket Number **062196**
 Kind of Job **OPEN HOLE** Halliburton District **WOODWARD**
 Tester **M. HOWARD** Witness **W.R. ATKINSON**
 Drilling Contractor **GARVEY DRILLING COMPANY SM S**
EQUIPMENT & HOLE DATA
 Formation Tested **Upper chester**
 Elevation **2969'** Ft.
 Net Productive Interval **15' 6325-6340'** Ft.
 All Depths Measured From **Kelly bushing**
 Total Depth **6360** Ft.
 Main Hole/Casing Size **7 7/8 Hole 8 5/8" csg.**
 Drill Collar Length **567** I.D. **2 1/4"**
 Drill Pipe Length **5703** I.D. **3.826**
 Packer Depth(s) **6301-6306'** Ft.
 Depth Tester Valve **6280** Ft.

TYPE	AMOUNT	Depth Back Pres. Valve	Surface Choke	Bottom Choke
Cushion		Ft.	1/4"	5/8"
Recovered	202	Feet of gas cut mud		
Recovered		Feet of		
Recovered		Feet of		
Recovered		Feet of		
Recovered		Feet of		

Remarks **Tool opened for a 31 minute first flow with a fair blow in 3 minutes on 5/8" choke - no pressure. Closed for a 39 minute first closed in pressure. Tool reopened with 1 PSI to maximum of 2 1/2 PSI decreasing to 1 1/2 PSI on 1/4" choke, gas to the surface in 22 minutes. Closed tool for a 58 minute second closed in pressure.**

TEMPERATURE	Gauge No. 287		Gauge No. 188		Gauge No.		TIME	
	Depth:	Ft.	Depth:	Ft.	Depth:	Ft.		
Est. °F.	12 Hour Clock		12 Hour Clock		Hour Clock		Tool	A.M.
	Blanked Off no		Blanked Off yes		Blanked Off		Opened	5:48 P.M.
Actual 142 °F.	Pressures		Pressures		Pressures		Tool	A.M.
	Closed		Closed		Closed		Closed	8:58 P.M.
	Field	Office	Field	Office	Field	Office	Reported	Computed
Initial Hydrostatic	3078	3076	3120	3130			Minutes	Minutes
First Period Flow	Initial	70	110	210	209			
	Final	94	121	233	258		30	31
	Closed in	1791	1819	1801	1815		40	39
Second Period Flow	Initial	94	119	210	216			
	Final	94	117	210	212		60	62
	Closed in	1745	1771	1755	1773		60	58
Third Period Flow	Initial	-	-	-	-			
	Final	-	-	-	-			
	Closed in	-	-	-	-			
Final Hydrostatic	3055	3067	3075	3095				

Gauge No. 287			Depth 6283'			Clock No. 2586			12 hour Ticket No. 062196								
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	110	.000		121	.000	119	.000		117							
1	.223	121	.0301		577	.445	117	.0445		607							
2			.0602		958			.0890		970							
3			.0903		1250			.1335		1250							
4			.1204		1449			.1780		1428							
5			.1505		1581			.2225		1549							
6			.1806		1674			.2670		1632							
7			.2107		1731			.3115		1687							
8			.2408		1773			.3560		1727							
9			.2709		1801			.4005		1755							
10			.293*		1819			.430**		1771							
11																	
12																	
13																	
14																	
15																	

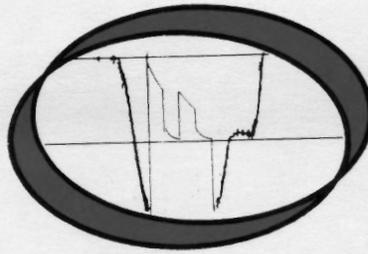
Gauge No. 188			Depth 6357'			Clock No. 1643			12 hour						
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log} \frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log} \frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log} \frac{t + \theta}{\theta}$	PSIG Temp. Corr.
0	.000	209	.000		258	.000	216	.000		212					
1	.201	258	.0265		637	.402	212	.039		614					
2			.0530		1005			.078		995					
3			.0795		1272			.117		1254					
4			.1060		1446			.156		1419					
5			.1325		1574			.195		1551					
6			.1590		1661			.234		1634					
7			.1855		1723			.273		1691					
8			.2120		1771			.312		1730					
9			.2385		1794			.351		1760					
10			.258*		1815			.377**		1773					
11															
12															
13															
14															
15															

Reading Interval 4 6 Minutes

REMARKS: *Last = 3 minutes. **Last = 4 minutes.

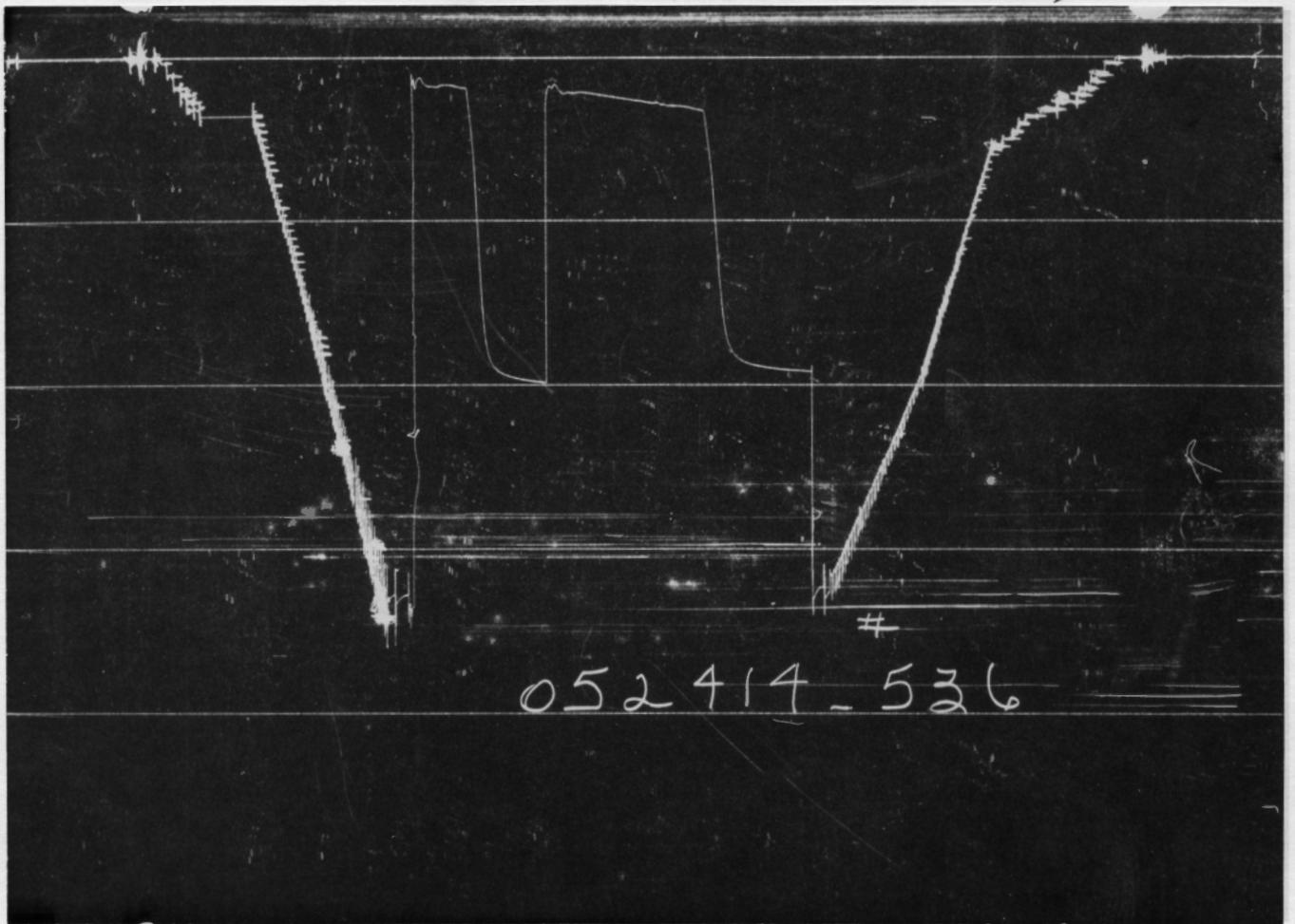
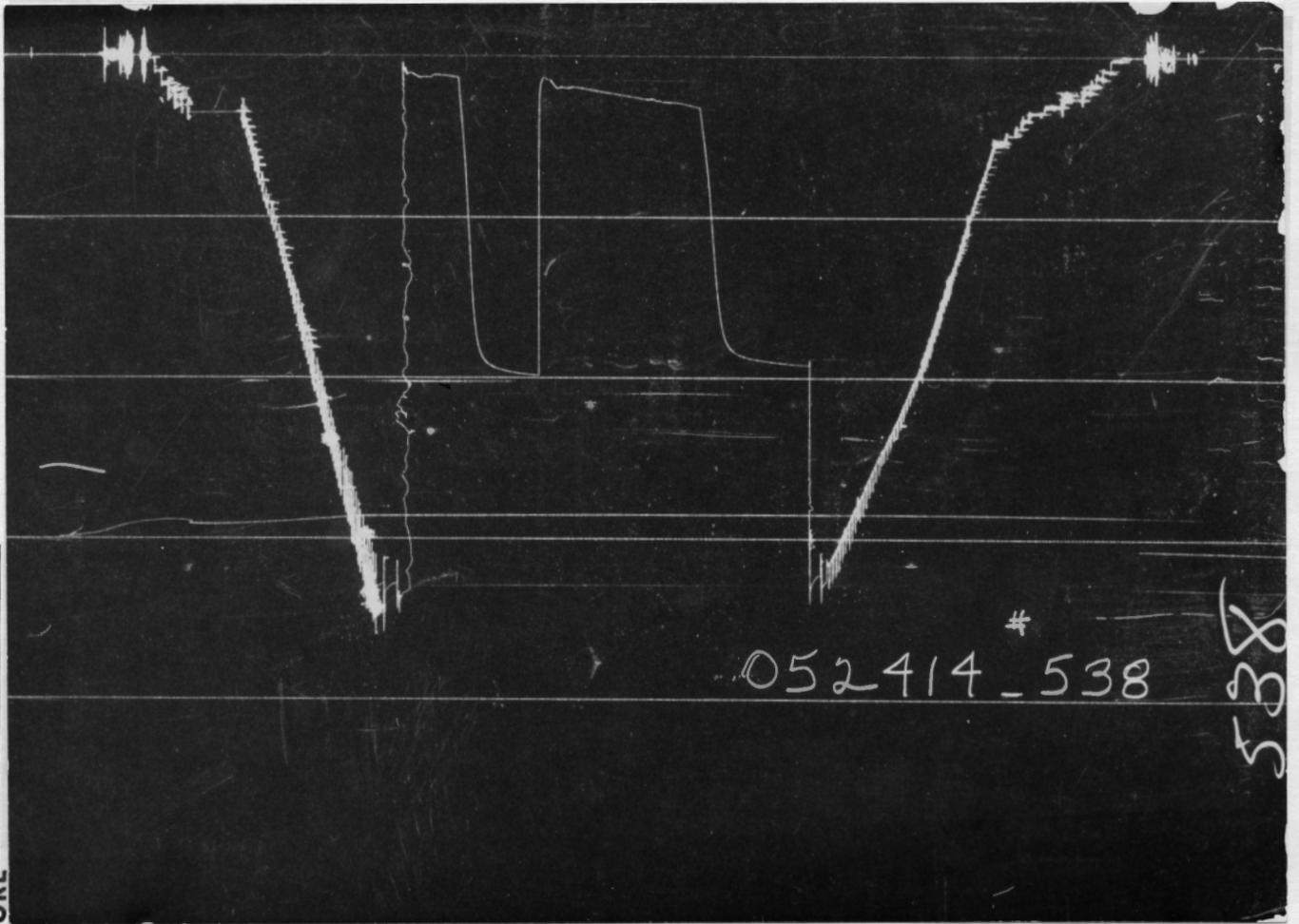
	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub	5 3/4"	2.75	12"	6269
Water Cushion Valve				
Drill Pipe	4 1/2"	3.826	5703	
Drill Collars	6"	2 1/2"	567	
Handling Sub & Choke Assembly	5 3/4"	3.16"	66"	
Dual CIP Valve	5"	.87"	58 1/2"	
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	60"	6280
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	2.25"	48 1/2"	6283
Hydraulic Jar	5"	1 3/4"	60"	
VR Safety Joint	5"	1.0"	33.4"	
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1.53"		6301
Distributor				
Packer Assembly	6 3/4"	1.53"		6306
Flush Joint Anchor	5 3/4"	2.87"	9'	
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case				
Drill Collars	6"	2 1/2"	27.20	
Anchor Pipe Safety Joint				
Packer Assembly				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor	5 3/4"	2.87"	10'	
Blanked-Off B.T. Running Case	5 3/4"	2.50"	6'	6357

Formation Testing Service Report



HALLIBURTON SERVICES
DUNCAN, OKLAHOMA

BOLES
V-1
J
03/7 - 0010
Well No
Test No
Tested Interval
Well No
Test No
Tested Interval
Well No
Test No
Tested Interval



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

BOLES
 Lease Name
 V-1
 Well No.
 5
 Tested Interval
 6579' - 6610'
 CLINTON OIL COMPANY
 Lease Owner/Company Name
 Seward
 State
 KANSAS

Legal Location
 Sec. - Twp. - Rng.
 C - SW - SE - 6 - 35 - 34
 Field Area
 W. LIBERAL
 County
 SEWARD
 State
 KANSAS

FLUID SAMPLER DATA				Date	Ticket Number		
Sampler Pressure _____ P.S.I.G. at Surface				5-30-69	052414		
Recovery: Cu. Ft. Gas _____				Kind of Job	Halliburton District		
cc. Oil _____				OPEN HOLE	LIBERAL		
cc. Water _____				Tester	Witness		
cc. Mud _____				WHITE	ATKINSON		
Tot. Liquid cc. _____				Drilling Contractor			
Gravity _____ ° API @ _____ ° F.				GARVEY DRILLING COMPANY			
Gas/Oil Ratio _____ cu. ft./bbl.				EQUIPMENT & HOLE DATA			
RESISTIVITY		CHLORIDE CONTENT		Formation Tested	Lower Chester		
Recovery Water _____ @ _____ ° F. _____ ppm		Elevation _____ Ft.		Net Productive Interval	15' Ft.		
Recovery Mud _____ @ _____ ° F.		All Depths Measured From		Kelly Bushing			
Recovery Mud Filtrate _____ @ _____ ° F. _____ ppm		Total Depth		6610' Ft.			
Mud Pit Sample _____ @ _____ ° F.		Main Hole/Casing Size		7 7/8"			
Mud Pit Sample Filtrate _____ @ _____ ° F. _____ ppm		Drill Collar Length		567' I.D. 2 1/2"			
Mud Weight _____ vis _____ cp		Drill Pipe Length		- I.D. -			
		Packer Depth(s)		6574' - 6579' Ft.			
		Depth Tester Valve		6554' Ft.			
Cushion		TYPE	AMOUNT	Depth Back Pres. Valve	Surface Choke	Bottom Choke	
		NONE		-	1"	3/4"	
Recovered		450'	Feet of	oil - clean gassy - 46° Gravity			
Recovered		360'	Feet of	mud and heavily gas cut oil			
Recovered		270'	Feet of	heavily oil and gas cut mud			
Recovered			Feet of				
Recovered			Feet of				
Remarks							
Tool opened with a good blow for a 31 minute first flow with gas to the surface in 18 minutes - gauged 25 minutes at 76000 cu. ft. Rotated tool for a 44 minute first closed in pressure. Tool reopened @ 2:34 PM - at 5 minutes gauged at 124 MCF - 15 minutes at 76 MCF - 25 minutes at 62 MCF - 35 minutes at 62 MCF 45 minutes at 44 MCF - 55 minutes at 44 MCF - 65 minutes at 34 MCF - 75 minutes at 24 MCF - 85 minutes - too weak to gauge. Took a 60 minute final closed in pressure							
TEMPERATURE		Gauge No. 538	Gauge No. 536	Gauge No. ure. Off bottom @ 5:05 PM			
C-		Depth: 6564' Ft.	Depth: 6606' Ft.	TIME			
Est. 130 °F.		12 Hour Clock	12 Hour Clock	Hour Clock			
Blanked Off		NO	YES	Blanked Off			
Actual °F.		Pressures		Pressures		Tool	
		Field	Office	Field	Office	Closed	
Initial Hydrostatic		3400	3318	3397	3351	Reported	
Flow		Initial	50	63	116	96	Computed
Final		133	135	183	184	Minutes	Minutes
Closed in		1985	1985	1972	1985	30	31
Initial		133	258	183	251	45	44
Flow		Final	317	320	332	327	90
Closed in		1918	1920	1940	1917	60	60
Initial							
Flow		Final					
Closed in							
Final Hydrostatic		3339	3253	3347	3239		

Formation Testing Service Report

Lease Name

BOLES

Well No.

V-1

Test No.

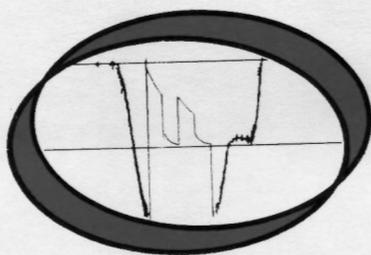
6

Tested Interval

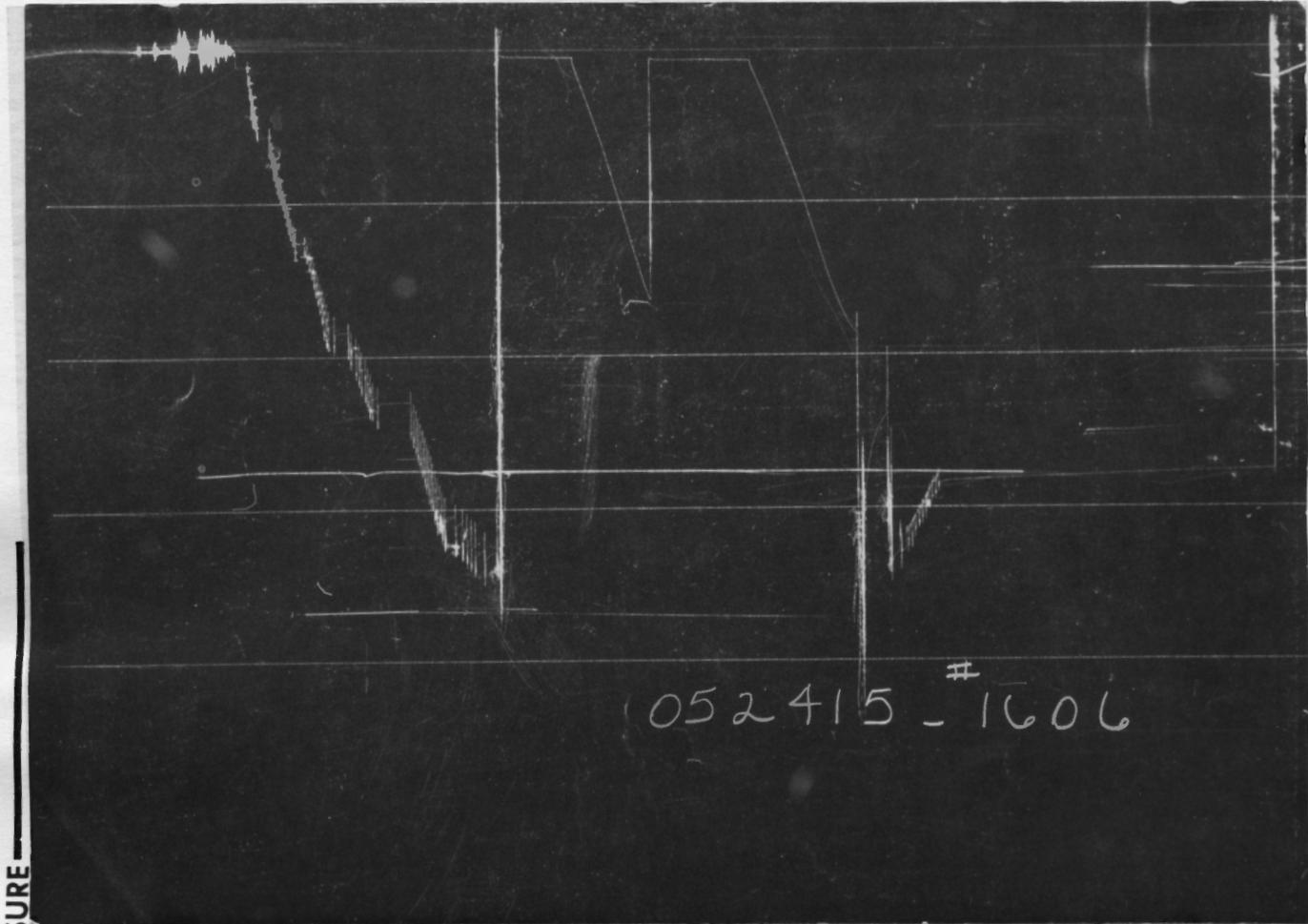
6673' - 6690'

Lease Owner/Company Name

CLINTON OIL COMPANY



HALLIBURTON SERVICES
DUNCAN, OKLAHOMA



PRESSURE

TIME

052415-1606



PRESSURE

TIME

052415-1605

1605

Each Horizontal Line Equal to 1000 psi

FLUID SAMPLER DATA

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.

RESISTIVITY _____ CHLORIDE CONTENT _____

Recovery Water _____ @ _____ °F. _____ ppm

Recovery Mud _____ @ _____ °F. _____ ppm

Recovery Mud Filtrate _____ @ _____ °F. _____ ppm

Mud Pit Sample _____ @ _____ °F. _____ ppm

Mud Pit Sample Filtrate _____ @ _____ °F. _____ ppm

Mud Weight _____ vis _____ cp

Date **5-31-69** Ticket Number **052415**

Kind of Job **OPEN HOLE** Halliburton District **LIBERAL**

Tester **WHITE** Witness **ATKINSON**

Drilling Contractor **GARVEY DRILLING COMPANY** NM S

EQUIPMENT & HOLE DATA

Formation Tested **St. Louis**

Elevation **2969' K.B.** Ft.

Net Productive Interval **9'** Ft.

All Depths Measured From **Kelly Bushing**

Total Depth **6690'** Ft.

Main Hole/Casing Size **7 7/8"**

Drill Collar Length **520'** I.D. **2 1/2"**

Drill Pipe Length _____ I.D. _____

Packer Depth(s) **6668' - 6673'** Ft.

Depth Tester Valve **6653'** Ft.

Cushion TYPE AMOUNT NONE Depth Back Pres. Valve NONE Surface Choke **1"** Bottom Choke **3/4"**

Recovered 1620'	Feet of	gas in drill pipe
Recovered 90'	Feet of	heavily oil and gas cut mud
Recovered	Feet of	
Recovered	Feet of	
Recovered	Feet of	

Remarks **Tool opened @ 8:15 PM for a 45 minute first flow with a weak blow - increasing to a fair blow. Tool closed @ 9:00 PM for a 45 minute first closed in pressure. Tool reopened @ 9:45 PM with a fair blow which continued throughout the test. Tool closed @ 10:45 PM.. Took a 60 minute second closed in pressure. Off bottom @ 11:45 Killed rig motor - reset tool - off bottom @ 12:03 PM...**

TEMPERATURE	Gauge No. 1606		Gauge No. 1605		Gauge No.		TIME
	Depth:	Ft.	Depth:	Ft.	Depth:	Ft.	
Est. °F.	12	Hour Clock	12	Hour Clock	Hour Clock	Hour Clock	Tool Opened 8:15 P.M.
Actual 148 °F.	Blanked Off NO		Blanked Off YES		Blanked Off		Tool Closed 11:45 P.M.
	Pressures		Pressures		Pressures		Reported
	Field	Office	Field	Office	Field	Office	Computed
Initial Hydrostatic	3339	3381	3364	3402			Minutes
First Period Flow	Initial	33	45	99	102		
	Final	50	58	115	99		
Second Period Flow	Closed in	1643	1635	1647	1639		
	Initial	50	83	99	120		
Third Period Flow	Final	50	81	99	89		
	Closed in	1840	1852	1845	1838		
Final Hydrostatic	3323	3351	3347	3353			

Legal Location **C SW SE - 6 - 35 - 34**

Lease Name **BOLES**

Well No. **V-1**

Test No. **6**

Field Area **W. LIBERAL**

Tested Interval **6673' - 6690'**

County **SEWARD**

State **KANSAS**

Lease Owner/Company Name **CLINTON OIL COMPANY**

Gauge No. 1606			Depth 6658'				Clock No. ????			12 hour	Ticket No. 052415				
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	45	.000		58	.000	83	.000		81					
1	.0604	53	.305		1635	.068	74	.0408		259					
2	.1208	53				.136	76	.0816		426					
3	.1812	54				.204	76	.1224		605					
4	.2416	56				.272	78	.1632		781					
5	.302	58				.340	79	.2040		969					
6						.408	81	.2448		1185					
7								.2856		1392					
8								.3264		1587					
9								.3672		1745					
10								.408		1852					
11															
12															
13															
14															
15															

Gauge No. 1605			Depth 6686'				Clock No. ????			hour 12					
	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	102	.000		99	.000	120	.000		89					
1	.302	99	.304		1639	.404	89	.0416		239					
2								.0832		335					
3								.1248		561					
4								.1664		750					
5								.2080		944					
6								.2496		1153					
7								.2912		1367					
8								.3328		1573					
9								.3744		1729					
10								.416		1838					
11															
12															
13															
14															
15															

Reading Interval 9

10

6

Minutes

REMARKS: