BJ® BYRON JACKSON INC./TESTING REPORT

BORG WARNER®

DRILL-STEM TEST DATA

Well Name	Carter Barker	Test No.	1
Well Number	1	Zone Tested	Lansing, K.C.
Company	Bowers Drlg. Co.	Date	7 - 15 - 67
Comp. Rep.	Bob McCann	Tester	Vernon Williams
Contractor	Co. Tools	Ticket No.	ST - 929
Location		Elevation	1763 D.F.

Recorder No.	2826'	Recorder No.	1055
Clock Range	12 hr.	Clock Range	12 hr.
Depth	3690'	Depth	3711'
Initial Hydro Mud Press.	2118	Initial Hydro Mud Press.	2045
Initial Shut-in Press.	1312	Initial Shut-in Press.	1313
Initial Flow Press.	89	Initial Flow Press.	77
Final Flow Press.	158	Final Flow Press.	150
Final Shut-in Press.	1246	Final Shut-in Press.	1244
Final Hydro Mud Press.	1979	Final Hydro Mud Press.	1980

Temperature	118 °F	Tool Open Before I.S.I.	10 Mins.
Mud Drop	1'	Initial Shut-in	30 Mins.
Mud Weight	10 #/gal.	Viscosity 38 cp	Flow Period 60 Mins.
Fluid Loss	11.6 cc	Final Shut-in	30 Mins.

Interval Tested	3703' to 3714'	Surface Choke Size	3/4"
Net Pay Tested		Bottom Choke Size	3/4"
Top Packer Depth	3698'	Main Hole Size	7-7/8"
Bottom Packer Depth	3703'	Rat Hole Size	
Total Depth	3714'	Feet Of Rat Hole	
Drill Pipe Size	4-1/2" FH	Wt. 16.60	Type of Test Open hole
Drill Collar I.D.	2-1/4"	Ft. Run 180	Cushion Amount—Type
Anchor Size	5-1/2" OD	Rubber Size	6-3/4"

Recovery—Total Feet

Recovered 180 Feet Of Clean gassy oil.

Recovered 175 Feet Of Hvy. oil & gas cut mud.

Recovered 5 Feet Of Muddy water.

Recovered Feet Of

Remarks

Strong Blow. Gas to surface in 6 min. After I.B.H. T.S.T.M.

DST PRESSURE INCREMENTS

Recorder No. 2826

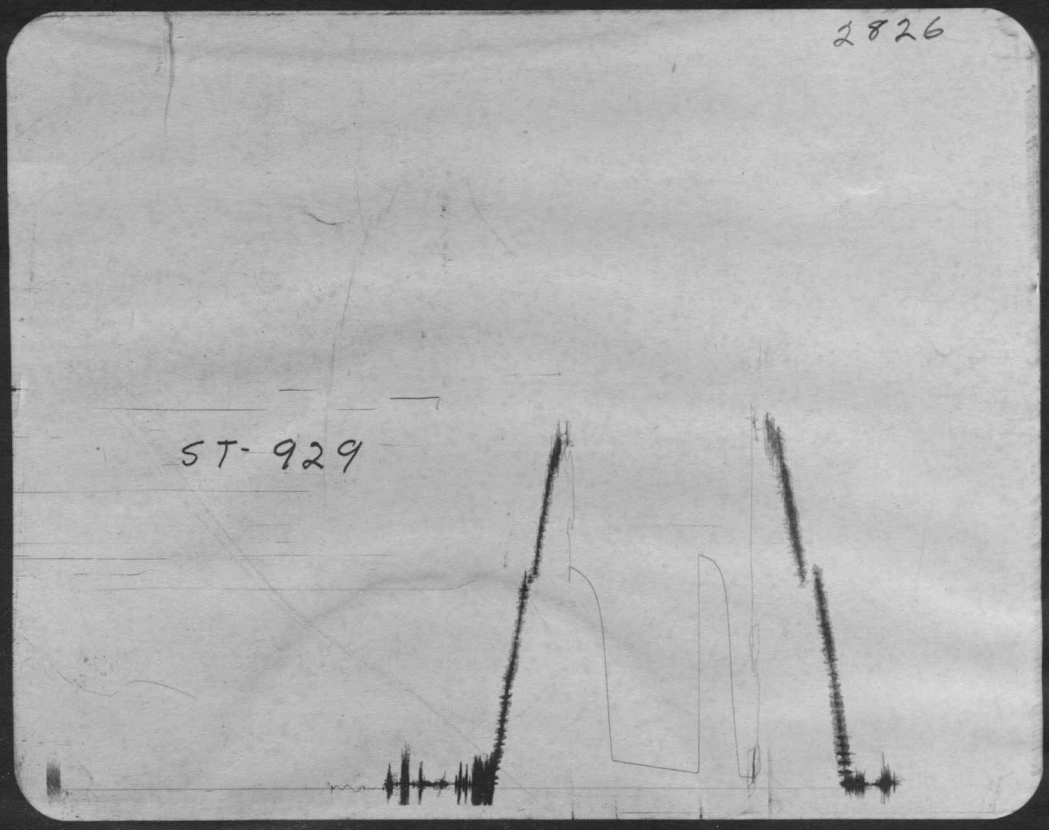
Depth 3690'

INITIAL CIP					FINAL CIP				
Time Defl. "	def.	T+θ	$\frac{T+\theta}{\theta}$	PSIG	Time Defl. "	def.	T+θ	$\frac{T+\theta}{\theta}$	PSIG
3	0.252	10+3	4.333	277	3	0.380	70+3	24.333	418
6	0.524	10+6	2.666	575	6	0.704	70+6	12.666	769
9	0.860	10+9	2.111	937	9	0.882	70+9	8.777	961
12	1.042	10+12	1.833	1133	12	0.984	70+12	6.866	1071
15	1.112	10+15	1.666	1209	15	1.036	70+15	5.666	1127
18	1.154	10+18	1.555	1254	18	1.068	70+18	4.888	1161
21	1.174	10+21	1.476	1275	21	1.096	70+21	4.333	1191
24	1.188	10+24	1.417	1290	24	1.114	70+24	3.917	1211
27	1.198	10+27	1.370	1301	27	1.130	70+27	3.593	1228
30	1.208	10+30	1.333	1312	30	1.147	70+30	3.333	1246

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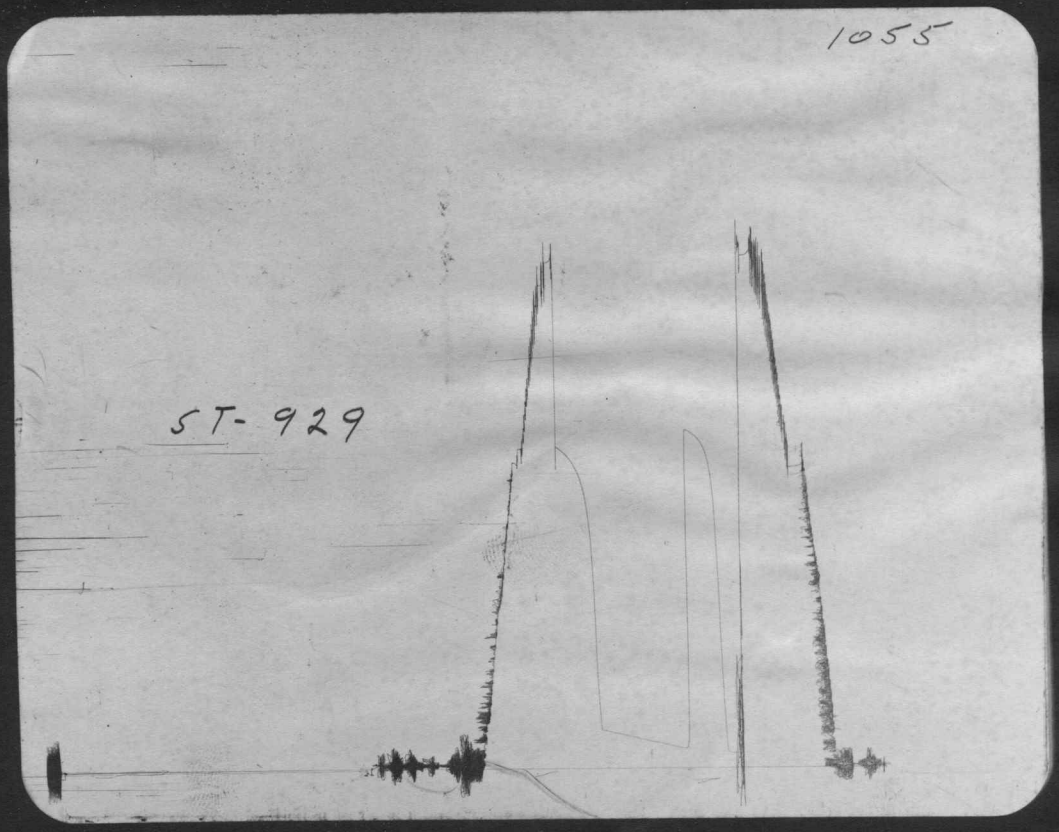
2826

ST-929



1055

ST-929



BJ BYRON JACKSON INC./TESTING REPORT

BORG WARNER

DRILL-STEM TEST DATA

Well Name	Carter Barker	Test No.	2
Well Number	1	Zone Tested	Lansing, K.C.
Company	Bowers Drlg. Co.	Date	7 - 15 - 67
Comp. Rep.	Bob McCann	Tester	Vernon Williams
Contractor	Co. Tools	Ticket No.	ST - 930
Location		Elevation	1763 D.F.

Recorder No.	2826	Recorder No.	1055
Clock Range	12 hr.	Clock Range	12 hr.
Depth	3763'	Depth	3787'
Initial Hydro Mud Press.	2118	Initial Hydro Mud Press.	2085
Initial Shut-in Press.	57	Initial Shut-in Press.	58
Initial Flow Press.	40	Initial Flow Press.	43
Final Flow Press.	40	Final Flow Press.	43
Final Shut-in Press.	46	Final Shut-in Press.	47
Final Hydro Mud Press.	2025	Final Hydro Mud Press.	2038

Temperature	118 °F	Tool Open Before I.S.I.	10 Mins.
Mud Drop	1"	Initial Shut-in	30 Mins.
Mud Weight	10.1 #/gal.	Viscosity 39 cp	Flow Period 30 Mins.
Fluid Loss	10 cc	Final Shut-in	30 Mins.

Interval Tested	3776' to 3790'	Surface Choke Size	3/4"
Net Pay Tested		Bottom Choke Size	3/4"
Top Packer Depth	3771'	Main Hole Size	7-7/8"
Bottom Packer Depth	3776'	Rat Hole Size	
Total Depth	3790'	Feet Of Rat Hole	
Drill Pipe Size	4-1/2" FH	Wt. 16.60	Type of Test Open hole
Drill Collar I.D.	2-1/4"	Ft. Run 60	Cushion Amount—Type
Anchor Size	5-1/2 OD		Rubber Size 6-3/4"

Recovery—Total Feet 5

Recovered 5 Feet Of Drlg. mud with spots of oil.

Recovered ____ Feet Of

Recovered ____ Feet Of

Recovered ____ Feet Of

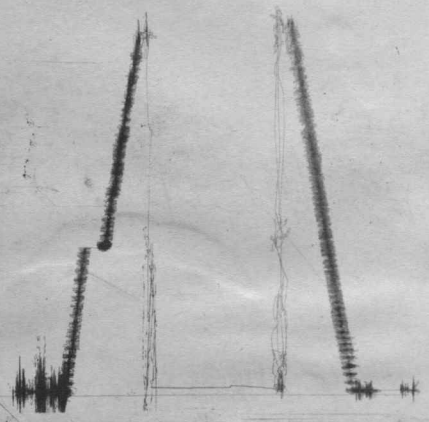
Remarks

Weak surge when tool opened.

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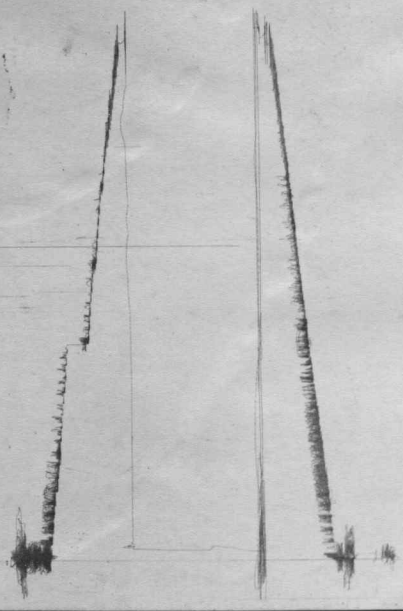
2826

ST-930



1055

ST-930



BJ® BYRON JACKSON INC./TESTING REPORT

BORG WARNER®

DRILL-STEM TEST DATA

Well Name	Carter Barker	Test No.	3
Well Number	1	Zone Tested	Lansing, K.C.
Company	Bowers Drlg. Co.	Date	7 - 16 - 67
Comp. Rep.	Bob McCann	Tester	Vernon Williams
Contractor	Co. Tools	Ticket No.	ST - 931
Location		Elevation	1763 D.F.

Recorder No.	2826	Recorder No.	1055
Clock Range	12 hr.	Clock Range	12 hr.
Depth	3796'	Depth	3817'
Initial Hydro Mud Press.	2095	Initial Hydro Mud Press.	2091
Initial Shut-in Press.	1370	Initial Shut-in Press.	1369
Initial Flow Press.	172	Initial Flow Press.	169
Final Flow Press.	425	Final Flow Press.	423
Final Shut-in Press.	1308	Final Shut-in Press.	1305
Final Hydro Mud Press.	2032	Final Hydro Mud Press.	2045
Temperature	134 °F	Tool Open Before I.S.I.	10 Mins.
Mud Drop	1'	Initial Shut-in	30 Mins.
Mud Weight	10.1 #/gal.	Viscosity 40 cp	Flow Period 60 Mins.
Fluid Loss	8 cc	Final Shut-in	30 Mins.
Interval Tested	3809' to 3820'	Surface Choke Size	3/4"
Net Pay Tested		Bottom Choke Size	3/4"
Top Packer Depth	3804'	Main Hole Size	7-7/8"
Bottom Packer Depth	3809'	Rat Hole Size	
Total Depth	3820'	Feet Of Rat Hole	
Drill Pipe Size	4-1/2" FH	Wt. 16.60	Type of Test Open hole
Drill Collar I.D.	2-1/4"	Ft. Run 60	Cushion Amount—Type
Anchor Size	5-1/2" OD		Rubber Size 6-3/4"

Recovery—Total Feet

Recovered 300 Feet Of Gas in pipe.

Recovered 60 Feet Of Slightly oil & gas cut mud.

Recovered 120 Feet Of Very slightly oil & gas cut muddy water.

Recovered 720 Feet Of Water.

Remarks

Strong blow for 10 min. Fair blow for remainder of test.

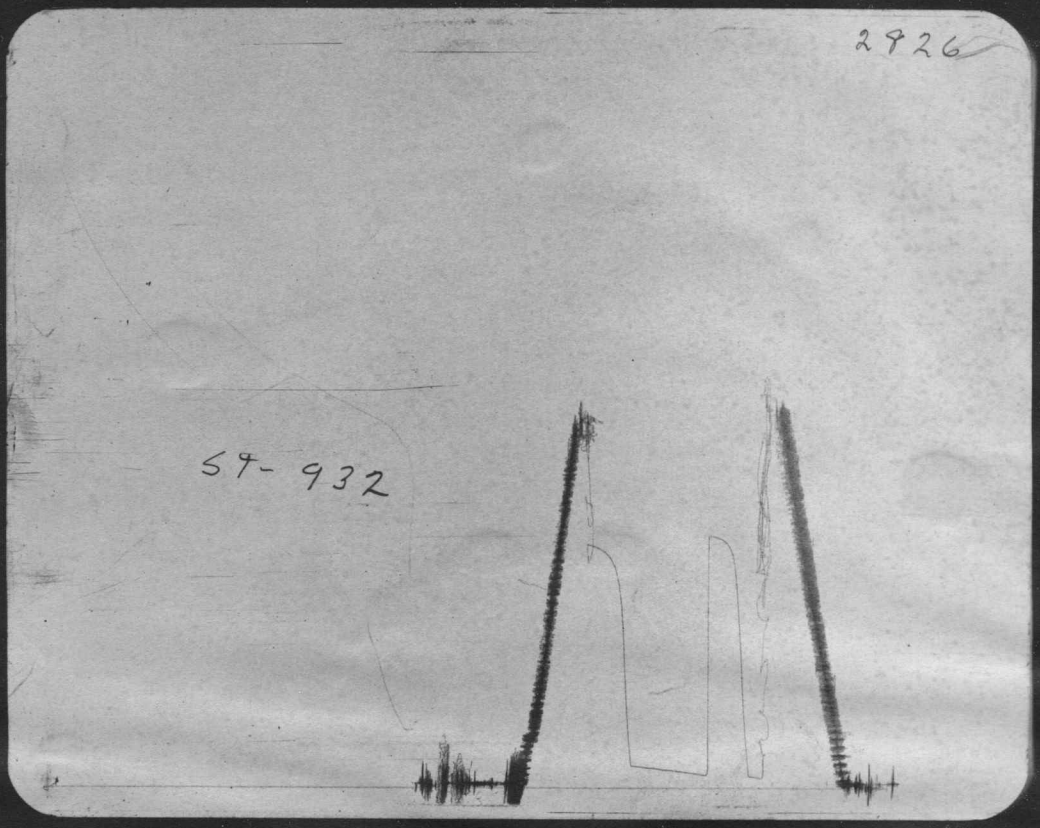
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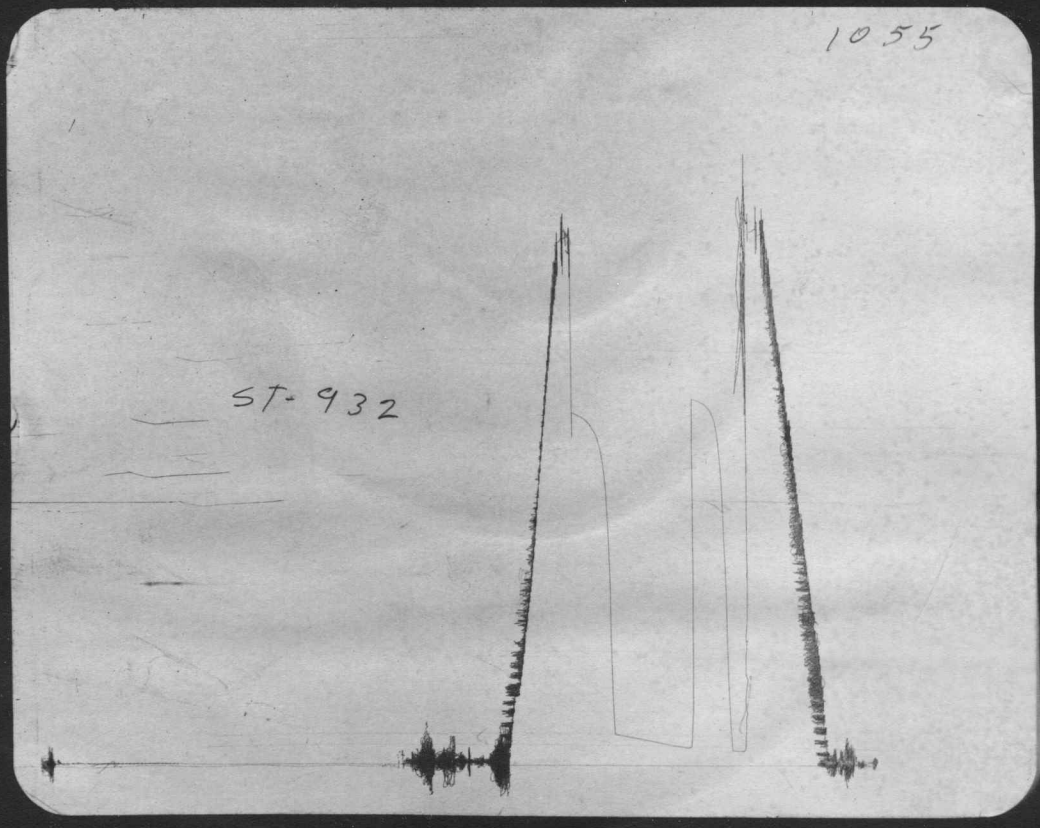
DST PRESSURE INCREMENTS

Recorder No. 2826

Depth 3796'

INITIAL CIP					FINAL CIP				
Time Defl. "	def.	T+θ	$\frac{T+\theta}{\theta}$	PSIG	Time Defl. "	def.	T+θ	$\frac{T+\theta}{\theta}$	PSIG
3	1.042	10+3	4.333	1133	3	0.942	70+3	24.333	1026
6	1.156	10+6	2.666	156	6	1.064	70+6	12.666	1157
9	1.194	10+9	2.111	1297	9	1.102	70+9	8.777	1198
12	1.216	10+12	1.833	1321	12	1.124	70+12	6.866	1221
15	1.234	10+15	1.666	1340	15	1.146	70+15	5.666	1245
18	1.240	10+18	1.555	1347	18	1.162	70+18	4.888	1262
21	1.248	10+21	1.476	1355	21	1.172	70+21	4.333	1273
24	1.254	10+24	1.417	1362	24	1.180	70+24	3.917	1282
27	1.258	10+27	1.370	1366	27	1.192	70+27	3.593	1295
30	1.262	10+30	1.333	1370	30	1.204	70+30	3.333	1308


2926
ST-932


1055
ST-932

BJ® BYRON JACKSON INC./TESTING REPORT

BORG WARNER®

DRILL-STEM TEST DATA

Well Name	Carter Barker	Test No.	4
Well Number	1	Zone Tested	Lansing, K.C.
Company	Bowers Drlg. Co.	Date	7 - 17 - 67
Comp. Rep.	Bob McCann	Tester	Vernon Williams
Contractor	Co. Tools	Ticket No.	ST - 932
Location		Elevation	1763

Recorder No.	2 326	Recorder No.	1055
Clock Range	12 hr.	Clock Range	12 hr.
Depth	3853'	Depth	3862'
Initial Hydro Mud Press.	2197	Initial Hydro Mud Press.	2132
Initial Shut-in Press.	1416	Initial Shut-in Press.	1422
Initial Flow Press.	75	Initial Flow Press.	77
Final Flow Press.	125	Final Flow Press.	120
Final Shut-in Press.	1366	Final Shut-in Press.	1368
Final Hydro Mud Press.	2061	Final Hydro Mud Press.	2063
Temperature	120 °F	Tool Open Before I.S.I.	10 Mins.
Mud Drop	1'	Initial Shut-in	30 Mins.
Mud Weight	10 #/gal.	Viscosity 40 cp	Flow Period 60 Mins.
Fluid Loss	10 cc	Final Shut-in	30 Mins.
Interval Tested	3866' to 3885'	Surface Choke Size	3/4"
Net Pay Tested		Bottom Choke Size	3/4"
Top Packer Depth	3861'	Main Hole Size	7-7/8"
Bottom Packer Depth	3866'	Rat Hole Size	
Total Depth	3885'	Feet Of Rat Hole	
Drill Pipe Size	4-1/2" FH Wt. 16.60	Type of Test	Open hole
Drill Collar I.D.	2-1/4" Ft. Run 60	Cushion Amount—Type	
Anchor Size	5-1/2" OD	Rubber Size	6-3/4"

Recovery—Total Feet

Recovered ____ Feet Of Gas to surface in 25 min. after I.S.I.

Recovered 210 Feet Of Hvy. gas & oil cut mud.

Recovered 30 Feet Of Muddy water

Recovered ____ Feet Of ____

Remarks

Strong blow thruout test, gas to surface 25 min. after I.S.I.

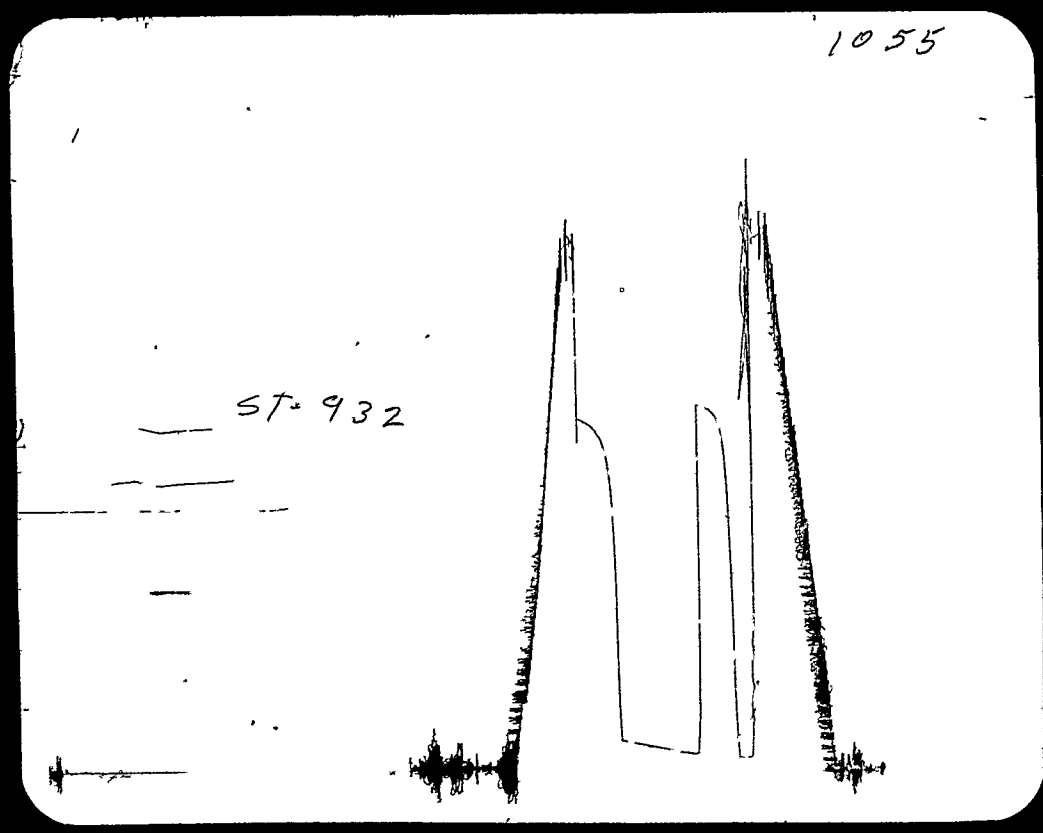
DST PRESSURE INCREMENTS

Recorder No. 2826 Depth 38531

INITIAL CIP					FINAL CIP				
Time Defl. "	def.	T+θ	$\frac{T+\theta}{\theta}$	PSIG	Time Defl. "	def.	T+θ	$\frac{T+\theta}{\theta}$	PSIG
3	0.322	10+3	4.333	354	3	0.418	70+3	24.333	460
6	0.640	10+6	2.666	700	6	0.800	70+6	12.666	873
9	0.920	10+9	2.111	1002	9	1.038	70+9	8.777	1129
12	1.122	10+12	1.833	1219	12	1.140	70+12	6.866	1239
15	1.220	10+15	1.666	1325	15	1.180	70+15	5.666	1282
18	1.266	10+18	1.555	1375	18	1.206	70+18	4.888	1310
21	1.280	10+21	1.476	1390	21	1.224	70+21	4.333	1329
24	1.292	10+24	1.417	1403	24	1.338	70+24	3.917	1344
27	1.299	10+27	1.370	1410	27	1.247	70+27	3.593	1354
30	1.304	10+30	1.333	1461	30	1.258	70+30	3.333	1366

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2926
ST- 932


1055
ST- 932

DRILL-STEM TEST DATA

Well Name	Carter Barker	Test No.	5
Well Number	1	Zone Tested	Lansing, K.C.
Company	Bowers Drlg. Co.	Date	7 - 17 - 67
Comp. Rep.	Bob McCann	Tester	Vernon Willams
Contractor	Co. Tools	Ticket No.	ST - 933
Location		Elevation	1763

Recorder No.	2826	Recorder No.	1055
Clock Range	12 hr.	Clock Range	12 hr.
Depth	3895'	Depth	3922'
Initial Hydro Mud Press.	2 159	Initial Hydro Mud Press.	2140
Initial Shut-in Press.	445	Initial Shut-in Press.	447
Initial Flow Press.	55	Initial Flow Press.	54
Final Flow Press.	62	Final Flow Press.	59
Final Shut-in Press.	323	Final Shut-in Press.	321
Final Hydro Mud Press.	2068	Final Hydro Mud Press.	2082
Temperature	120 °F	Tool Open Before I.S.I.	10 Mins.
Mud Drop		Initial Shut-in	30 Mins.
Mud Weight	10.1 #/gal.	Viscosity 39 cp	Flow Period 60 Mins.
Fluid Loss	8 cc	Final Shut-in	30 Mins.
Interval Tested	3908' to 3925'	Surface Choke Size	3/4"
Net Pay Tested		Bottom Choke Size	3/4"
Top Packer Depth	3903'	Main Hole Size	7-7/8"
Bottom Packer Depth	3908'	Rat Hole Size	
Total Depth	3925'	Feet Of Rat Hole	
Drill Pipe Size	4-1/2" FH	Wt. 16.60	Type of Test Open hole
Drill Collar I.D.	2-1/4"	Ft. Run 60	Cushion Amount—Type
Anchor Size	5-1/2" OD	Rubber Size	6-3/4"

Recovery—Total Feet

Recovered 720 Feet Of Gas in pipe.

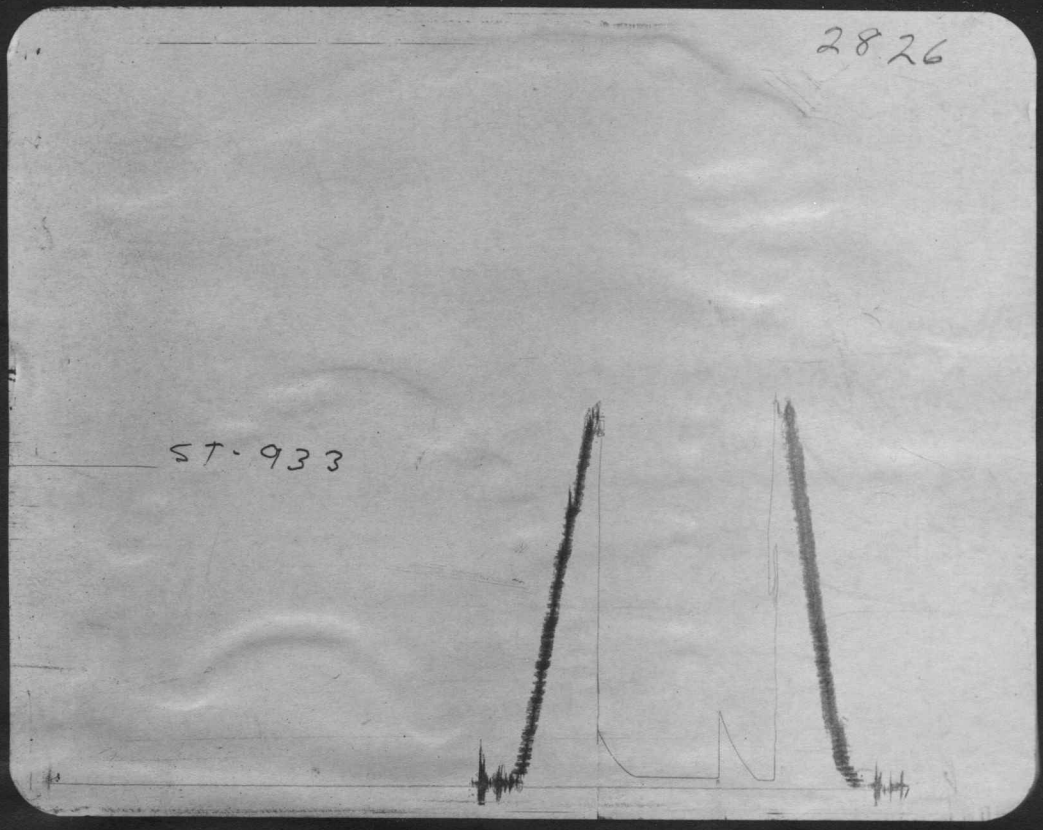
Recovered 70 Feet Of Oil & gas cut watery mud.

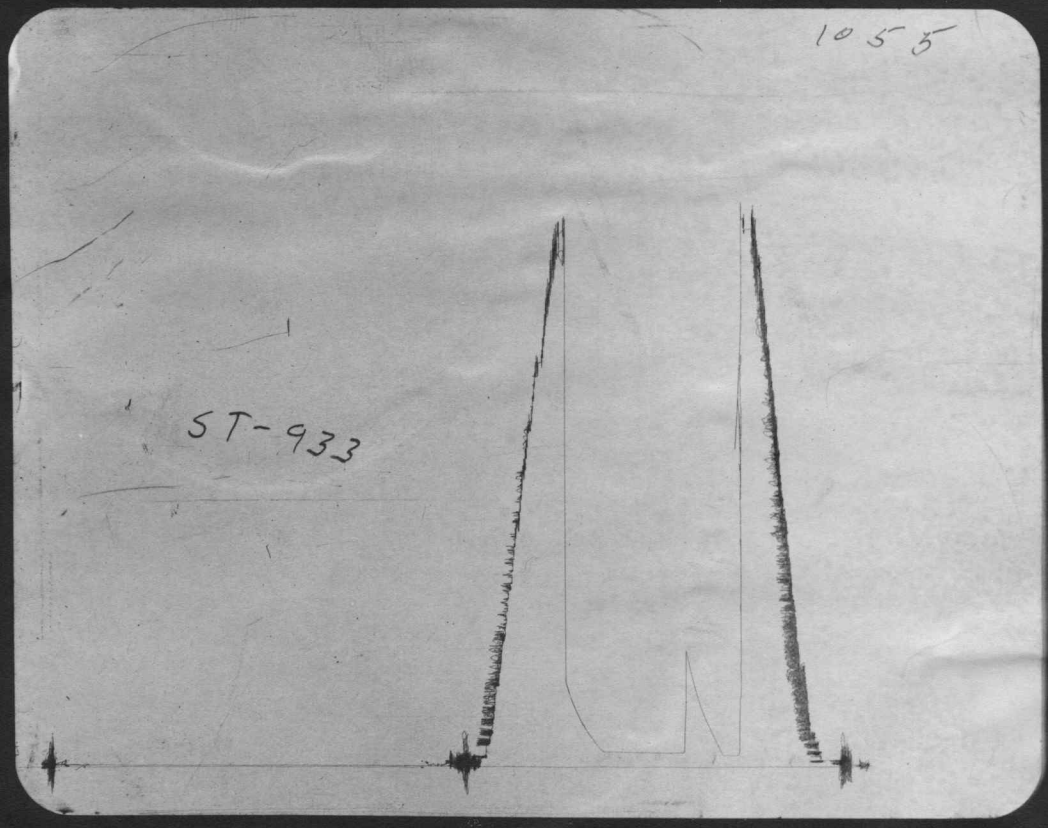
Recovered Feet Of

Recovered Feet Of

Remarks

Fair blow decreasing to very weak in 20 min. Very weak remainder of test.


2826
ST-933


1055
ST-933

BJ® BYRON JACKSON INC./TESTING REPORT

BORG WARNER®

DRILL-STEM TEST DATA

Well Name	Carter Barker	Test No.	6
Well Number	1	Zone Tested	Lansing, K.C.
Company	Bowers Drlg. Co.	Date	7 - 18 - 67
Comp. Rep.	Bob McCann	Tester	Vernon Williams
Contractor		Ticket No.	
Location		Elevation	1763

Recorder No.	2826	Recorder No.	1055
Clock Range	12 hr.	Clock Range	12 hr.
Depth	3933'	Depth	3953'
Initial Hydro Mud Press.	2201	Initial Hydro Mud Press.	2197
Initial Shut-in Press.	165	Initial Shut-in Press.	155
Initial Flow Press.	47	Initial Flow Press.	38
Final Flow Press.	49	Final Flow Press.	39
Final Shut-in Press.	156	Final Shut-in Press.	144
Final Hydro Mud Press.	2118	Final Hydro Mud Press.	2088
Temperature	120°F	Tool Open Before I.S.I.	10 Mins.
Mud Drop	1'	Initial Shut-in	30 Mins.
Mud Weight	9.9 #/gal.	Viscosity 44 cp	Flow Period 30 Mins.
Fluid Loss	10 cc	Final Shut-in	30 Mins.
Interval Tested	3946' to 3956'	Surface Choke Size	3/4"
Net Pay Tested		Bottom Choke Size	3/4"
Top Packer Depth	3941'	Main Hole Size	7-7/8"
Bottom Packer Depth	3946'	Rat Hole Size	
Total Depth	3956'	Feet Of Rat Hole	
Drill Pipe Size	4-1/2" FH	Wt. 16.60	Type of Test Open hole
Drill Collar I.D.	2-1/4"	Ft. Run 60	Cushion Amount—Type
Anchor Size	5-1/2" OD	Rubber Size	6-3/4"

Recovery—Total Feet 5

Recovered 5 Feet Of Drlg. mud.

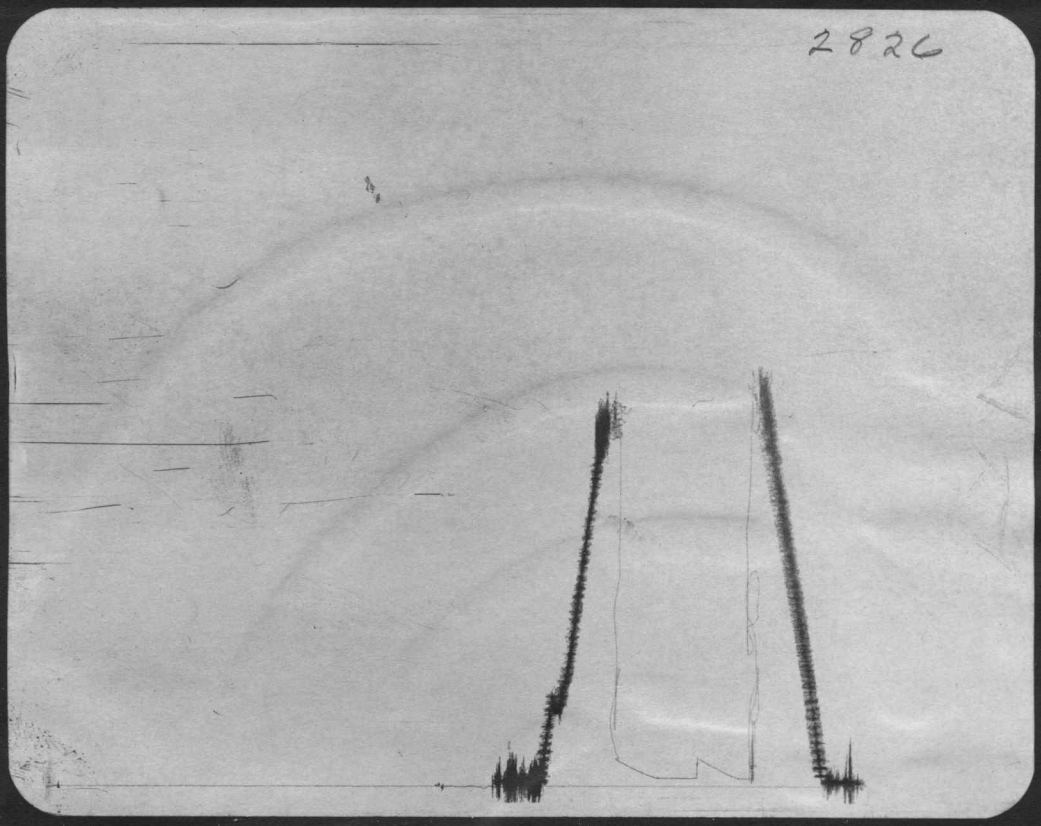
Recovered Feet Of

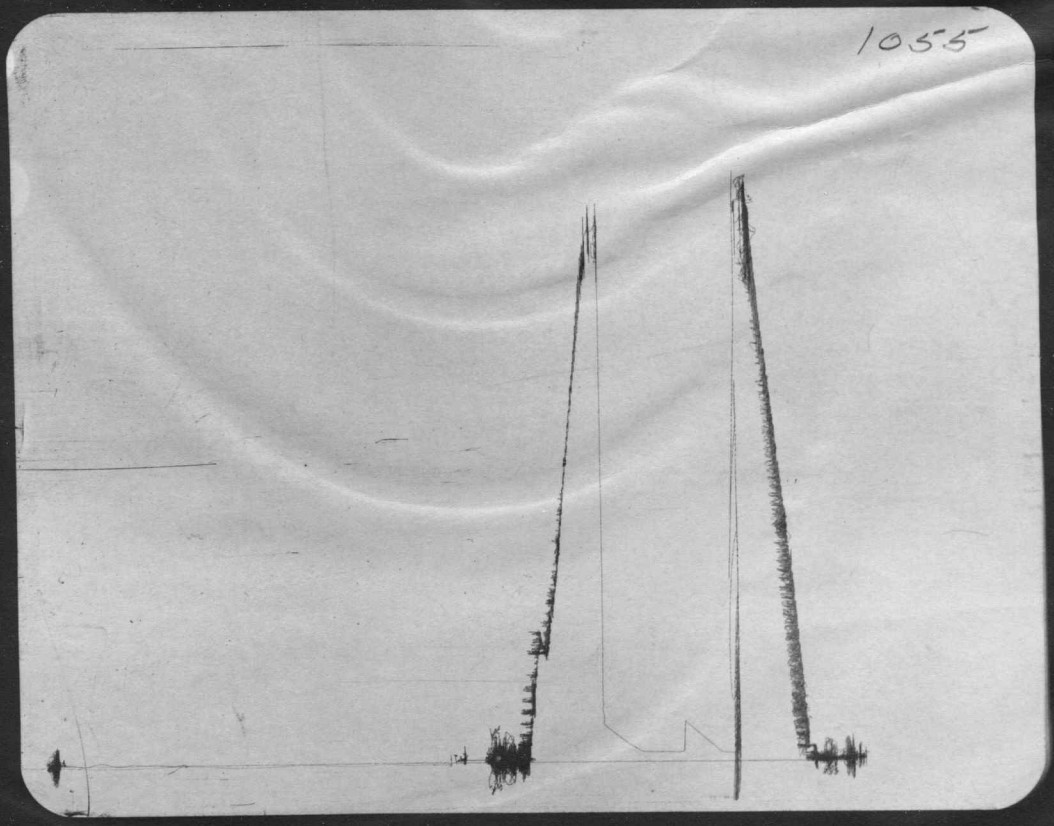
Recovered Feet Of

Recovered Feet Of

Remarks

Very weak blow 17 min.


2826


1055

BJ® BYRON JACKSON INC./TESTING REPORT

BORG WARNER®

DRILL-STEM TEST DATA

Well Name	Carter Barker	Test No.	7
Well Number	1	Zone Tested	Mississippi
Company	Bowers Drlg. Co.	Date	7 - 19 - 67
Comp. Rep.	Bob McCann	Tester	Vernon Williams
Contractor	Co. Tools	Ticket No.	ST - 934
Location		Elevation	1763

Recorder No.	2826	Recorder No.	1055
Clock Range	12 hr.	Clock Range	12 hr.
Depth	4049'	Depth	4095'
Initial Hydro Mud Press.	2243	Initial Hydro Mud Press.	2244
Initial Shut-in Press.	438	Initial Shut-in Press.	423
Initial Flow Press.	51	Initial Flow Press.	62
Final Flow Press.	59	Final Flow Press.	69
Final Shut-in Press.	707	Final Shut-in Press.	696
Final Hydro Mud Press.	2182	Final Hydro Mud Press.	2187
Temperature	130°F	Tool Open Before I.S.I.	10 Mins.
Mud Drop		Initial Shut-in	30 Mins.
Mud Weight	9.9 #/gal.	Viscosity 44 cp	Flow Period 90 Mins.
Fluid Loss	7.6 cc	Final Shut-in	45 Mins.
Interval Tested	4062' to 4098'	Surface Choke Size	3/4"
Net Pay Tested		Bottom Choke Size	3/4"
Top Packer Depth	4057'	Main Hole Size	7-7/8"
Bottom Packer Depth	4062'	Rat Hole Size	
Total Depth	4098'	Feet Of Rat Hole	
Drill Pipe Size	4-1/2" FH	Wt. 16.60	Type of Test Open hole
Drill Collar I.D.	2-1/4"	Ft. Run 60	Cushion Amount—Type
Anchor Size	5-1/2" OD	Rubber Size	6-3/4"

Recovery—Total Feet

Recovered 65 Feet Of Drlg. mud.

Recovered 1900 Feet Of Gas in pipe.

Recovered Feet Of

Recovered Feet Of

Remarks

Strong blow thru out test.

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DST PRESSURE INCREMENTS

Recorder No. 2825 Depth 4049'

INITIAL CIP					FINAL CIP				
Time Defl. "	def.	T + θ	$\frac{T+\theta}{\theta}$	PSIG	Time Defl. "	def.	T + θ	$\frac{T+\theta}{\theta}$	PSIG
3	0.094	10+3	4.333	103	3	0.092	100+3	34.333	101
6	0.136	10+6	2.666	150	6	0.143	100+6	17.666	157
9	0.178	10+9	2.111	196	9	0.184	100+9	12.111	202
12	0.208	10+12	1.833	229	12	0.230	100+12	9.333	253
15	0.246	10+15	1.666	271	15	0.274	100+15	7.666	301
18	0.272	10+18	1.555	299	18	0.316	100+18	6.555	348
21	0.302	10+21	1.476	322	21	0.356	100+21	5.762	392
24	0.331	10+24	1.417	364	24	0.400	100+24	4.750	440
27	0.366	10+27	1.370	403	27	0.433	100+27	4.704	513
30	0.398	10+30	1.333	438	30	0.466	100+30	4.333	513
					33	0.505	100+33	4.033	555
					36	0.534	100+36	3.777	586
					39	0.570	100+39	3.589	625
					42	0.603	100+42	3.381	660
					45	0.647	100+45	3.222	707

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