Attachment to WCR

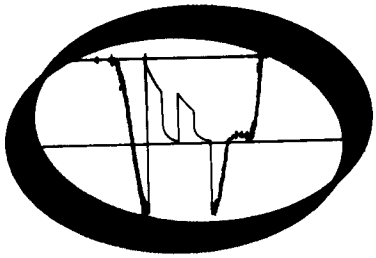
Enclosure 3 of WCR

Test Charts

Himalhaugh Creek-1

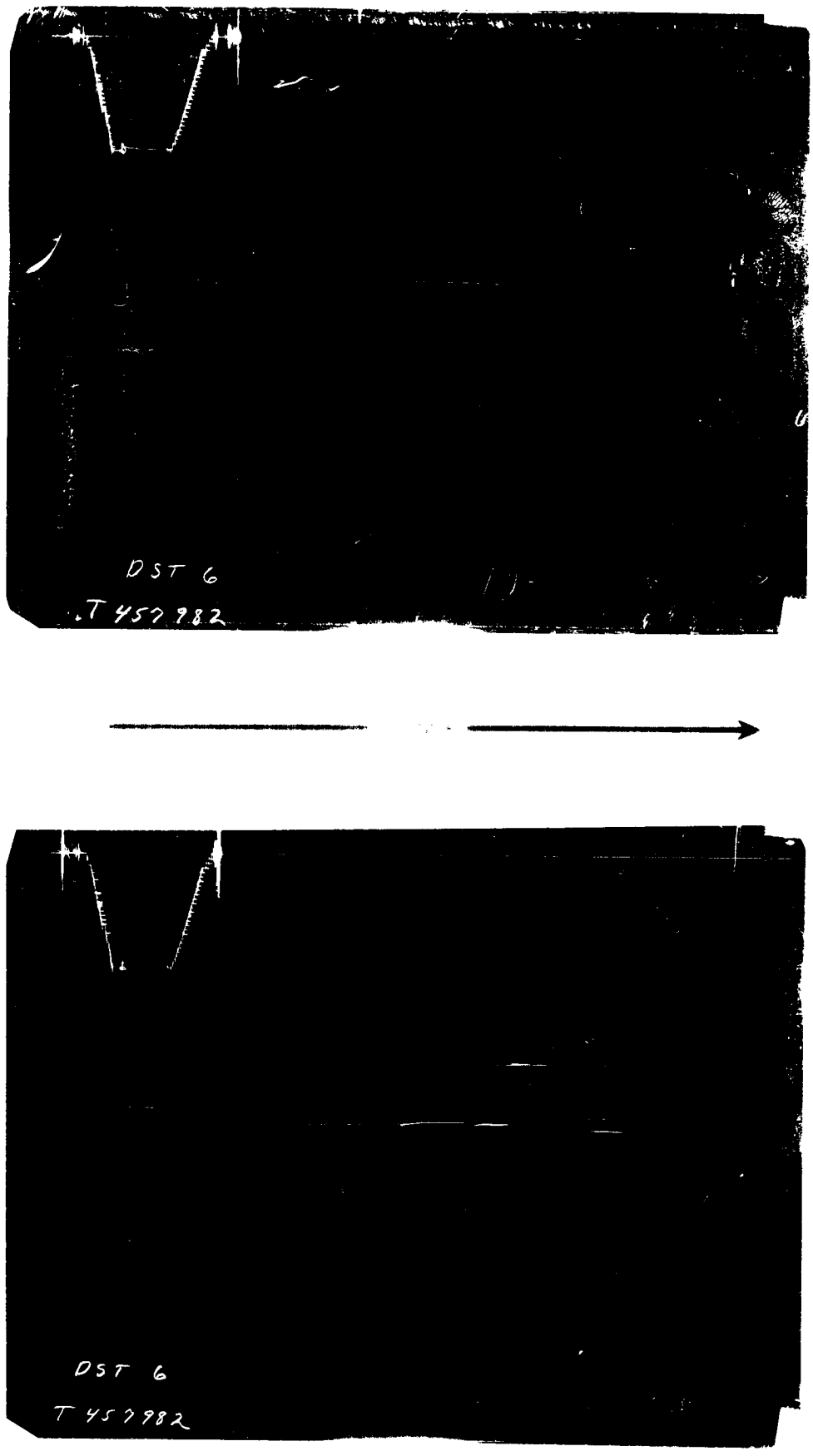
(Wse2)

Formation Testing Service Report



HALLIBURTON COMPANY

DUNCAN, OKLAHOMA



Each Ho[illegible] L[illegible]al 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 November 6, 1969. Ticket Number T 457982
Kind of Job Drill Stem Test w/RTTS Hook Wall Halliburton District Brisbane
Tester D. Knackstedt Witness K. Milheim
Drilling Contractor Woodside Rig-Richter Bawden Labour

EQUIPMENT & HOLE DATA

Formation Tested _____
Elevation 244 KB Ft.
Net Productive Interval _____ Ft.
All Depths Measured From KB
Total Depth 7782 Plug Back 2400 Ft.
Main Hole/Casing Size 9-5/8 - 36lb.
Drill Collar Length 386 I.D. 2¼
Drill Pipe Length 2011 I.D. 3½ - 13.30 IF
Packer Depth(s) 2300 Ft.
Depth Tester Valve 2293 Ft.

Cushion TYPE _____ AMOUNT None Ft. Depth Back Pres. Valve _____ Surface Choke None Bottom Choke 5/8

Recovered 2120 Feet of Drilling Mud
Recovered _____ Feet of _____
Recovered _____ Feet of _____
Recovered _____ Feet of _____
Recovered _____ Feet of _____

Mea. From Tester Valve

Remarks 7:12 a.m. Tool Opened - Strong Blow decreasing to very weak blow and dead

7:42 a.m. Tool Closed In

8:42 a.m. Tool off Bottom

TEMPERATURE	Gauge No. 1043 Depth: 2294 Ft.	Gauge No. _____ Depth: _____ Ft.	Gauge No. 1040 Depth: 2315 Ft.	TIME
	24 Hour Clock	Hour Clock	24 Hour Clock	Tool Opened A.M. P.M.
Est. 120 °F.	Blanked Off No	Blanked Off	Blanked Off Yes	
Actual °F.	Pressures	Pressures	Pressures	Tool Closed A.M. P.M.

	Field	Office	Field	Office	Field	Office	Reported Minutes	Computed Minutes
Initial Hydrostatic	1115	1078			1106	1093		
First Period Flow Initial	1058	1004			1049	1016	—	—
First Period Flow Final	1072	1061			1063	1074		
First Period Closed in								
Second Period Flow Initial							—	—
Second Period Flow Final								
Second Period Closed in								
Third Period Flow Initial							—	—
Third Period Flow Final								
Third Period Closed in	1072	1066			1063	1078		
Final Hydrostatic	1072	1084			1063	1094	—	—

Legal Location Sec. - Twp. - Rng.
Lease Name Hindhaugh Creek
Well No. 1
Test No. 6
Field Area Moriac
County Victoria
Tested Interval Perforations 2328-2335½, 2345-2360 & 2366-2373½
State Victoria
Lease Owner/Company Name Pursuit Oil N.L.

FORM 1946—PRINTED IN U.S.A.

FORMATION TEST DATA

LITTLE'S 83426 4/69—30,31-13

Gauge No. 1043	Depth 2294	Clock 24 hour	Ticket No. T 457982

	First Flow Period		Initial Closed In Pressure			Second Flow Period		Final Closed In Pressure		
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.
P_0	.000	1004	.000		1061					
P_1	.01	1029	.02		1066					
P_2	.02	1042	.04		1066					
P_3	.03	1049	.06		1066					
P_4	.04	1055	.08		1066					
P_5	.05	1056	.10		1066					
P_6	.06	1059	.12		1066					
[redacted]	.07	1061	.14		1066					
P_8	.08	1061	.16		1066					
P_9	.09	1061	.18		1066					
P_{10}	.10	1061	.20		1066					

Gauge No. 1040	Depth 2315	Clock 24 hour

P_0	.000	1016	.000		1074					
P_1	.098	1041	.02		1078					
P_2	.196	1055	.04		1078					
P_3	.294	1062	.06		1078					
[redacted]	.392	1067	.08		1078					
P_5	.490	1070	.10		1078					
P_6	.588	1073	.12		1078					
P_7	.686	1073	.14		1078					
P_8	.784	1074	.16		1078					
P_9	.882	1074	.18		1078					
P_{10}	.98	1074	.20		1078					

Reading Interval Minutes

REMARKS:

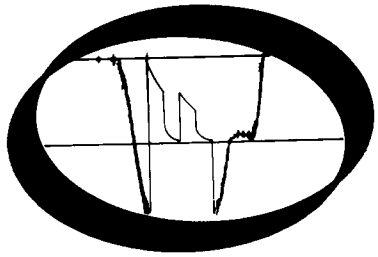
SPECIAL PRESSURE DATA

NOMENCLATURE

b	= Approximate Radius of Investigation	Feet
b_1	= Approximate Radius of Investigation (Net Pay Zone h_1)	Feet
D.R.	= Damage Ratio	——
El	= Elevation	Feet
GD	= B.T. Gauge Depth (From Surface Reference)	Feet
h	= Interval Tested	Feet
h_1	= Net Pay Thickness	Feet
K	= Permeability	md
K_1	= Permeability (From Net Pay Zone h_1)	md
m	= Slope Extrapolated Pressure Plot (Psi^2/cycle Gas)	psi/cycle
OF_1	= Maximum Indicated Flow Rate	MCF/D
OF_2	= Minimum Indicated Flow Rate	MCF/D
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_{et}	= 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_e	= Total Flow Time	Minutes
T	= Temperature Rankine	°R
Z	= Compressibility Factor	——
μ	= Viscosity Gas or Liquid	CP
Log	= Common Log	

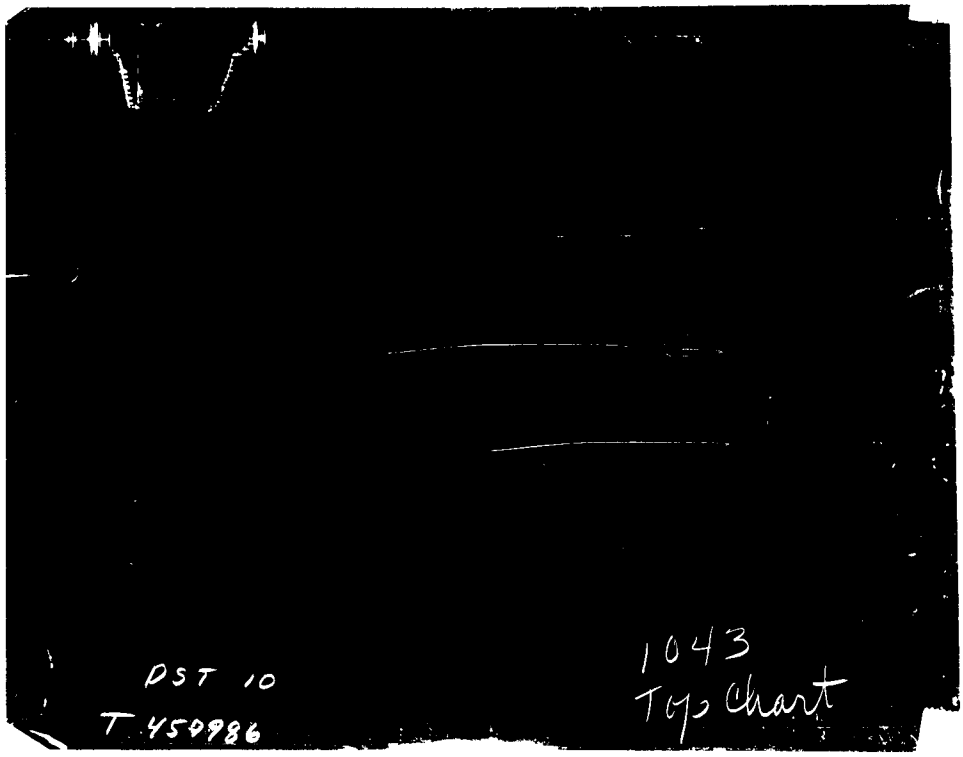
* Potentiometric Surface Reference to Rotary Table When Elevation Not Given, Fresh Water Corrected to 100° F.

Formation Testing Service Report

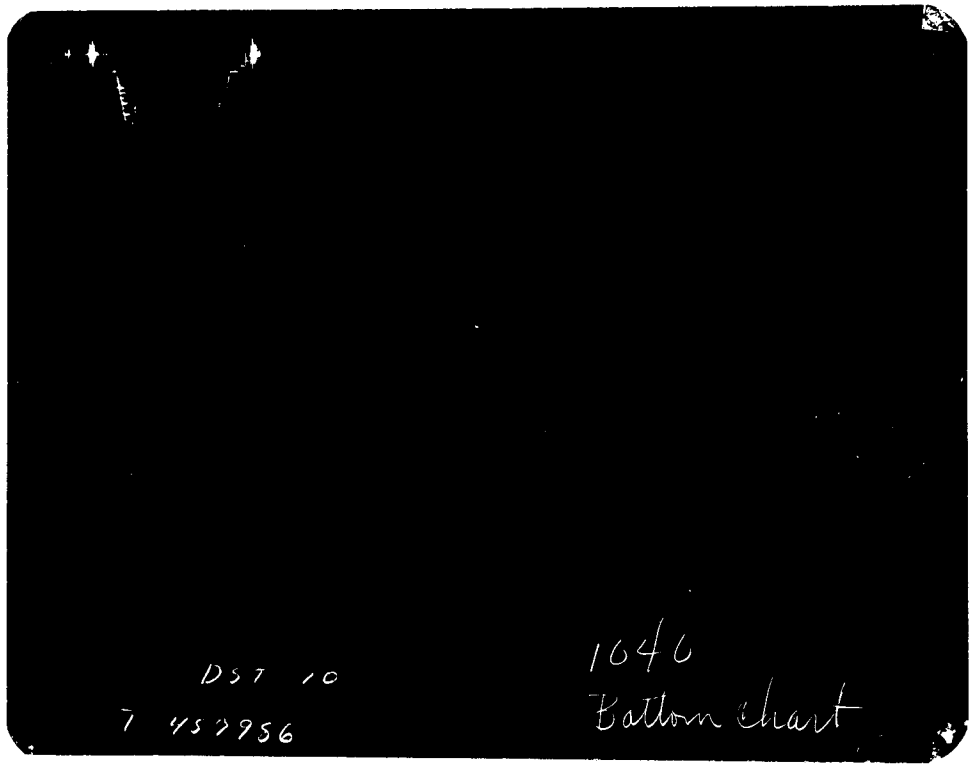


HALLIBURTON COMPANY

DUNCAN, OKLAHOMA



PRESSURE



Each [illegible] 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.	
Recovery Mud Filtrate	____	@ ____	°F.	____ ppm
Mud Pit Sample	____	@ ____	°F.	
Mud Pit Sample Filtrate	____	@ ____	°F.	____ ppm
Mud Weight	____	vis		____ cp

Date November 9, 1969 Ticket Number T 457986
Kind of Job Drill Stem Test w/RTTS Hook Wall Halliburton District Brisbane
Tester D. Knackstedt Witness K. Milheim
Drilling Contractor Woodside Rig-Richter Bawden Labour

EQUIPMENT & HOLE DATA

Formation Tested _____
Elevation 244 K.B. Ft.
Net Productive Interval _____ Ft.
All Depths Measured From K.B.
Total Depth 7782 Ft.
Main Hole/Casing Size 8½
Drill Collar Length 268 I.D. 2¼
Drill Pipe Length 880 I.D. 3½ IF 13.30
Packer Depth(s) 1159 Ft.
Depth Tester Valve 1154 Ft.

Cushion TYPE None AMOUNT _____ Ft. Depth Back Pres. Valve _____ Surface Choke None Bottom Choke 5/8

Recovered 1040 Feet of Mud to Muddy H20
Recovered _____ Feet of _____
Recovered _____ Feet of _____
Recovered _____ Feet of _____
Recovered _____ Feet of _____

Meas. From Tester Valve

Remarks Test perforations 1167 to 1192
5:54 P.M. Tool open - Strong blow gradually decreasing to dead 6:50 p.m.
6:55 P.M. Tool Closed In
7:55 P.M. Tool off bottom

TEMPERATURE	Gauge No. 1043 Depth: 1155 Ft.	Gauge No. Depth: Ft.	Gauge No. 1040 Depth: 1174 Ft.	TIME
	24 Hour Clock	Hour Clock	24 Hour Clock	Tool Opened A.M. P.M.
Est. 100 °F.	Blanked Off No	Blanked Off	Blanked Off Yes	
Actual °F.	Pressures	Pressures	Pressures	Tool Closed A.M. P.M.

	Field	Office	Field	Office	Field	Office	Reported Minutes	Computed Minutes
Initial Hydrostatic	546	535			565	548		
First Period Flow Initial	86	96			87	110	——	——
First Period Flow Final	474	477			493	491		
First Period Closed in								
Second Period Flow Initial							——	——
Second Period Flow Final								
Second Period Closed in								
Third Period Flow Initial							——	——
Third Period Flow Final								
Third Period Closed in	474	477			493	491		
Final Hydrostatic	546	532			565	545	——	——

Legal Location Sec. - Twp. - Rng.
Lease Name Hindhaugh Creek
Well No. 1
Test No. 10
Field Area Moriac
Tested Interval Perforations 1167 - 1192
County Victoria
State Victoria
Lease Owner/Company Name Pursuit Oil N.L.

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FORMATION TEST DATA

LITTLE'S 83426 4/69—30,31-13

Gauge No. 1043	Depth 1155	Clock 24 hour	Ticket No. T 457986

	First Flow Period		Initial Closed In Pressure			Second Flow Period		Final Closed In Pressure		
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.
P_0	.000	96	.000		477					
P_1	.02	295	.0198		477					
P_2	.04	388	.0396		477					
P_3	.06	434	.0594		477					
P_4	.08	455	.0792		477					
P_5	.10	467	.099		477					
P_6	.12	471	.1188		477					
[redacted]	.14	474	.1386		477					
P_8	.16	476	.1584		477					
P_9	.18	477	.1782		477					
P_{10}	.20	477	.198		477					

Gauge No. 1040	Depth 1174	Clock 24 hour

P_0	.000	110	.000		491					
P_1	.0198	319	.0196		491					
P_2	.0396	403	.0392		491					
P_3	.0594	446	.0588		491					
[redacted]	.0792	468	.0784		491					
P_5	.099	480	.098		491					
P_6	.1188	484	.1176		491					
P_7	.1386	487	.1372		491					
P_8	.1584	488	.1568		491					
P_9	.1782	491	.1764		491					
P_{10}	.198	491	.196		491					
Reading Interval										Minutes

REMARKS:

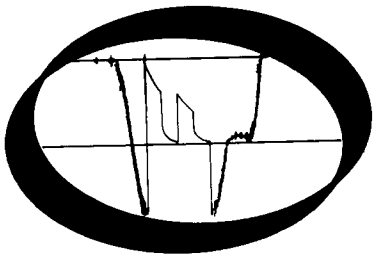
SPECIAL PRESSURE DATA

NOMENCLATURE

b	= Approximate Radius of Investigation	Feet
b_1	= Approximate Radius of Investigation (Net Pay Zone h_1)	Feet
D.R.	= Damage Ratio	——
El	= Elevation	Feet
GD	= B.T. Gauge Depth (From Surface Reference)	Feet
h	= Interval Tested	Feet
h_1	= Net Pay Thickness	Feet
K	= Permeability	md
K_1	= Permeability (From Net Pay Zone h_1)	md
m	= Slope Extrapolated Pressure Plot (Psi^2/cycle Gas)	psi/cycle
OF_1	= Maximum Indicated Flow Rate	MCF/D
OF_2	= Minimum Indicated Flow Rate	MCF/D
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_e	= Total Flow Time	Minutes
T	= Temperature Rankine	°R
Z	= Compressibility Factor	——
μ	= Viscosity Gas or Liquid	CP
Log	= Common Log	

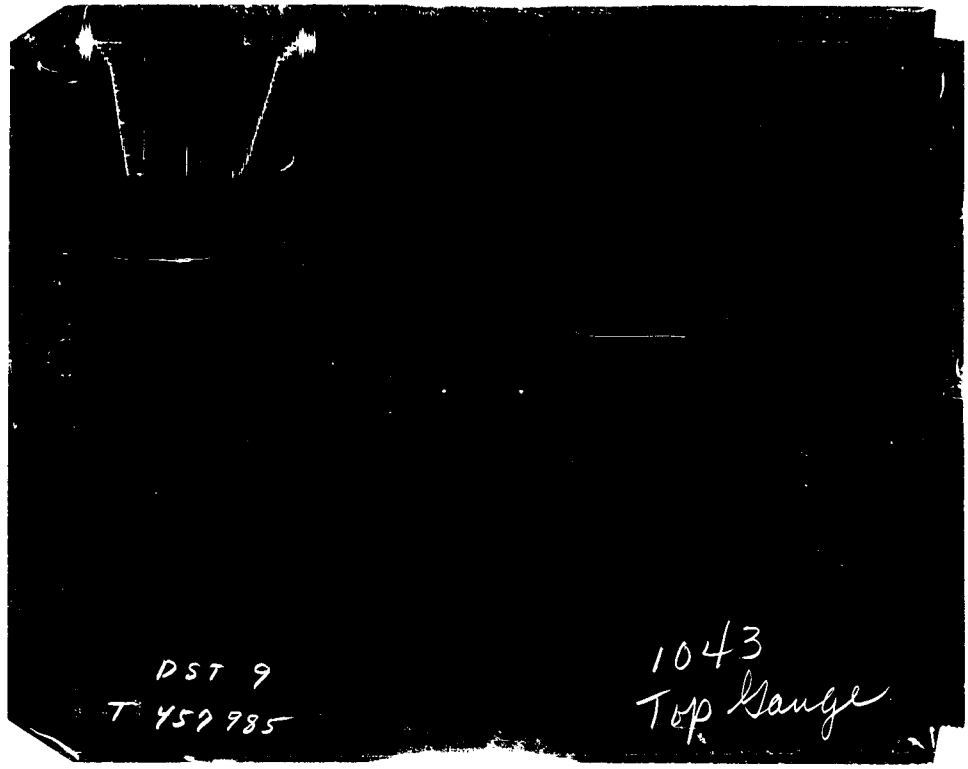
* Potentiometric Surface Reference to Rotary Table When Elevation Not Given, Fresh Water Corrected to 100° F.

Formation Testing Service Report



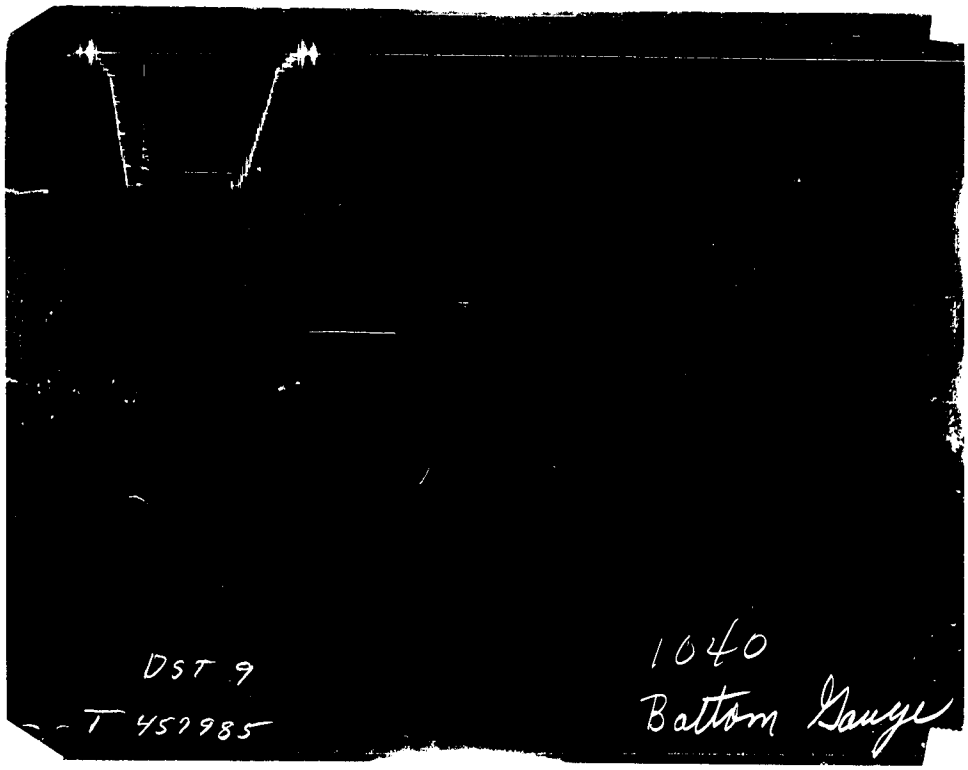
HALLIBURTON COMPANY

DUNCAN, OKLAHOMA



PRESSURE

TIME



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 November 8, 1969 Ticket Number T 457985
Kind of Job Drill Stem Test w/RTTS Hook Wall Halliburton District Brisbane
Tester D. Knackstedt Witness K. Milheim
Drilling Contractor Woodside Rig-Richter Bawden labour

EQUIPMENT & HOLE DATA

Formation Tested _____
Elevation 244 K.B. Ft.
Net Productive Interval _____ Ft.
All Depths Measured From K.B.
Total Depth 7782 Ft.
Main Hole/Casing Size 8½
Drill Collar Length 268 I.D. 2¼
Drill Pipe Length 1956 I.D. 3½ IF 13.30
Packer Depth(s) 2230 Ft.
Depth Tester Valve 2225 Ft.

Cushion TYPE None AMOUNT _____ Ft. Depth Back Pres. Valve _____ Surface Choke None Bottom Choke 5/8

Recovered 1170 Feet of Mud to Muddy Salt H20
Recovered 1000 Feet of Salt H20
Recovered _____ Feet of _____
Recovered _____ Feet of _____
Recovered _____ Feet of _____

Meas. From Tester Valve

Remarks

TEMPERATURE	Gauge No. 1043 Depth: 2226 Ft.	Gauge No. Depth: Ft.	Gauge No. 1040 Depth: 2245 Ft.	TIME
	24 Hour Clock	Hour Clock	24 Hour Clock	Tool Opened A.M. P.M.
Est. 120 °F.	Blanked Off No	Blanked Off	Blanked Off Yes	
Actual °F.	Pressures	Pressures	Pressures	Tool Closed A.M. P.M.

		Field	Office	Field	Office	Field	Office	Reported Minutes	Computed Minutes
Initial Hydrostatic		1049	1048			1058	1054		
First Period	Flow Initial	72	75			72	83	—	—
	Flow Final	948	940			942	948		
	Closed in								
Second Period	Flow Initial							—	—
	Flow Final								
	Closed in								
Third Period	Flow Initial							—	—
	Flow Final								
	Closed in	962	943			956	951		
Final Hydrostatic		1049	1042			1058	1049	—	—

Legal Location Sec. - Twp. - Rng.
Lease Name Hindhaugh Creek
Well No. 1
Test No. 9
Tested Interval Perforations 2239 - 2259
Field Area Moriac Victoria
County
State Victoria
Lease Owner/Company Name Pursuit Oil N.L.

FORM 1946—PRINTED IN U.S.A.

FORMATION TEST DATA

LITTLE'S 83426 4/69—30,31-13

Gauge No. 1043	Depth 2226	Clock 24 hour	Ticket No. T 457985

	First Flow Period		Initial Closed In Pressure			Second Flow Period		Final Closed In Pressure		
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.
P_0	.000	75	.000		941					
P_1	.0238	342	.0242		941					
P_2	.0476	588	.0484		941					
P_3	.0714	741	.0726		941					
P_4	.0952	842	.0968		941					
P_5	.1190	901	.121		943					
P_6	.1428	928	.1452		943					
[redacted]	.1666	935	.1694		943					
P_8	.1904	937	.1936		943					
P_9	.2142	938	.2178		943					
P_{10}	.238	940	.242		943					

Gauge No. 1040	Depth 2245	Clock 24 hour

P_0	.000	83	.000		949					
P_1	.0238	397	.0246		949					
P_2	.0476	604	.0492		949					
P_3	.0714	749	.0738		949					
[redacted]	.0952	849	.0984		949					
P_5	.119	907	.123		949					
P_6	.1428	933	.1476		949					
P_7	.1666	942	.1722		951					
P_8	.1904	945	.1968		951					
P_9	.2142	946	.2214		951					
P_{10}	.238	948	.246		951					

Reading Interval Minutes

REMARKS:

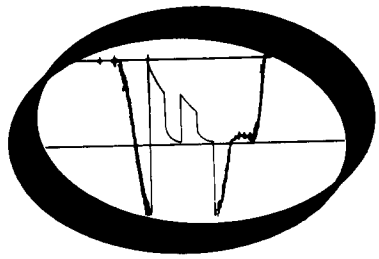
SPECIAL PRESSURE DATA

NOMENCLATURE

b	= Approximate Radius of Investigation	Feet
b_1	= Approximate Radius of Investigation (Net Pay Zone h_1)	Feet
D.R.	= Damage Ratio	——
El	= Elevation	Feet
GD	= B.T. Gauge Depth (From Surface Reference)	Feet
h	= Interval Tested	Feet
h_1	= Net Pay Thickness	Feet
K	= Permeability	md
K_1	= Permeability (From Net Pay Zone h_1)	md
m	= Slope Extrapolated Pressure Plot (Psi^2/cycle Gas)	psi/cycle
OF_1	= Maximum Indicated Flow Rate	MCF/D
OF_2	= Minimum Indicated Flow Rate	MCF/D
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	

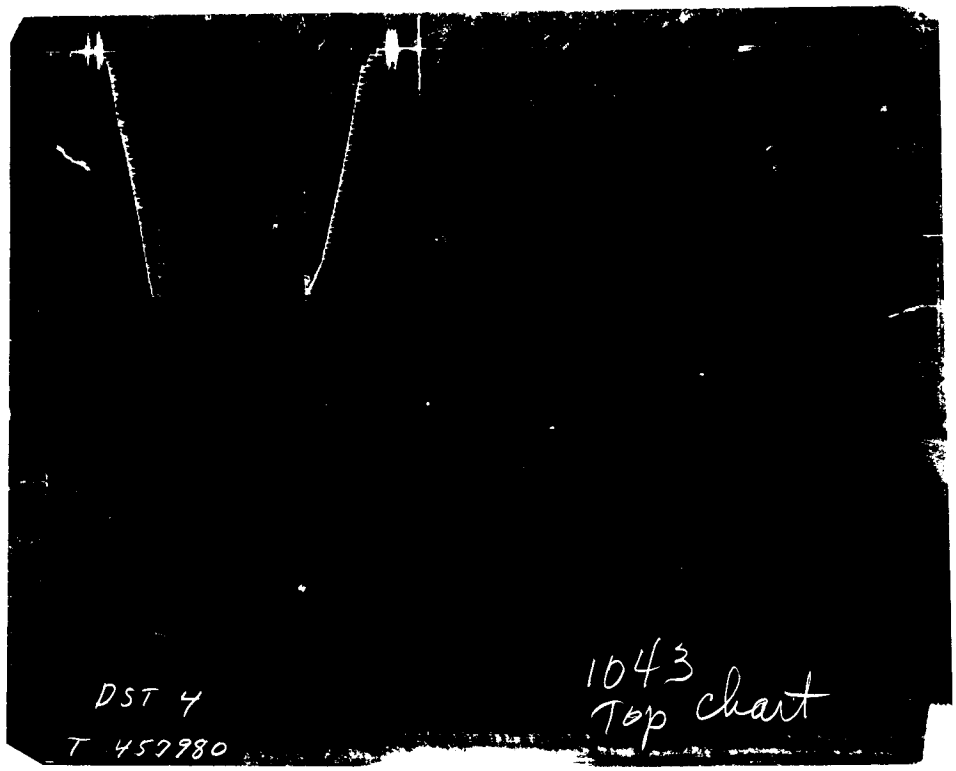
* Potentiometric Surface Reference to Rotary Table When Elevation Not Given, Fresh Water Corrected to 100° F.

Formation Testing Service Report



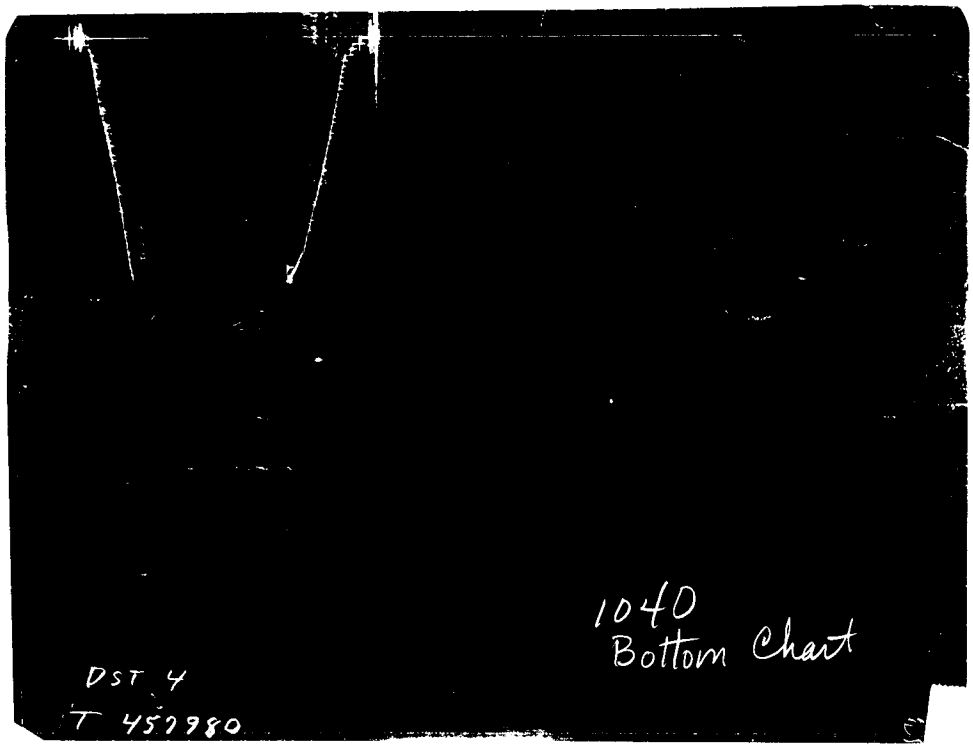
HALLIBURTON COMPANY

DUNCAN, OKLAHOMA



PRESSURE

TIME



1000 p s

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 November 3, 1969 Ticket Number T 457980
Kind of Job Drill Stem Test w/RTTS Hook Wall Halliburton District Brisbane
Tester D. Knackstedt Witness K. Milheim
Drilling Contractor Woodside Rig-Richter Bawden Labour

EQUIPMENT & HOLE DATA

Formation Tested _____
Elevation 244KB Ft.
Net Productive Interval _____ Ft.
All Depths Measured From K.B.
Total Depth 7782 Ft.
Main Hole/Casing Size 9-5/8-36lb.
Drill Collar Length 90 ft. I.D. 2¼
Drill Pipe Length 4019 I.D. 3½-13.30 IF
Packer Depth(s) 4130 Ft.
Depth Tester Valve 4124 Ft.

Cushion TYPE _____ AMOUNT None Ft. Depth Back Pres. Valve _____ Surface Choke None Bottom Choke 5/8

Recovered 170 Feet of Mud
Recovered 160 Feet of Muddy Acid H20
Recovered _____ Feet of _____
Recovered _____ Feet of _____
Recovered _____ Feet of _____

Meas. From Tester Valve

Remarks 11:15 a.m. Tool opended - fair to weak blow
1:15 p.m. Tool Closed In
3:15 p.m. Tool Off Bottom

TEMPERATURE	Gauge No. 1043 Depth: 4125 Ft.	Gauge No. Depth: Ft.	Gauge No. 1040 Depth: 4144 Ft.	TIME
	24 Hour Clock	Hour Clock	24 Hour Clock	Tool Opened A.M. P.M.
Est. 150 °F.	Blanked Off No	Blanked Off	Blanked Off Yes	
Actual °F.	Pressures	Pressures	Pressures	Tool Closed A.M. P.M.

		Field	Office	Field	Office	Field	Office	Reported Minutes	Computed Minutes
Initial Hydrostatic		1942	1924			1930	1936		
First Period	Flow Initial	28	55			43	65	——	——
	Flow Final	143	161			174	175		
	Closed in								
Second Period	Flow Initial							——	——
	Flow Final								
	Closed in								
Third Period	Flow Initial							——	——
	Flow Final								
	Closed in	1135	1122			1130	1139		
Final Hydrostatic		1942	1916			1930	1934	——	——

Legal Location Sec. - Twp. - Rng.
Lease Name: Hindhaugh Creek
Well No.: 1
Test No.: 4
Field Area: Moriac Victoria
Tested Interval: Perforations 4144 - 4152 & 4162 - 4165
County
State: Victoria
Lease Owner/Company Name: Pursuit Oil N.L.

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FORMATION TEST DATA

LITTLE'S 83426 4/69—30,31-13

Gauge No. 1043 Depth 4125 Clock 24 hour Ticket No. T-457980

	First Flow Period		Initial Closed In Pressure			Second Flow Period		Final Closed In Pressure		
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\Theta}{\Theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\Theta}{\Theta}$	PSIG Temp. Corr.
P_0	.000	55	.000		161					
P_1	.0395	78	.0408		309					
P_2	.0790	94	.0816		497					
P_3	.1185	108	.1224		661					
P_4	.1580	118	.1632		779					
P_5	.1975	126	.2040		855					
P_6	.2370	135	.2448		928					
	.2765	142	.2856		989					
P_8	.3160	149	.3264		1038					
P_9	.3555	155	.3672		1085					
P_{10}	.395	161	.408		1122					

Gauge No. 1040 Depth 4144 Clock 24 hour

P_0	.000	65	.000		175					
P_1	.0398	90	.0408		332					
P_2	.0796	107	.0816		522					
P_3	.1194	122	.1224		681					
	.1592	132	.1632		801					
P_5	.1990	141	.2040		877					
P_6	.2388	149	.2448		948					
P_7	.2786	157	.2856		1007					
P_8	.3184	164	.3264		1057					
P_9	.3582	170	.3672		1101					
P_{10}	.398	175	.408		1139					

Reading Interval Minutes

REMARKS:

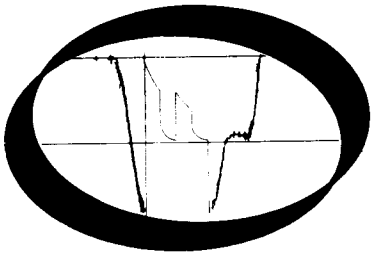
SPECIAL PRESSURE DATA

NOMENCLATURE

b	= Approximate Radius of Investigation	Feet
b_1	= Approximate Radius of Investigation (Net Pay Zone h_1)	Feet
D.R.	= Damage Ratio	——
El	= Elevation	Feet
GD	= B.T. Gauge Depth (From Surface Reference)	Feet
h	= Interval Tested	Feet
h_1	= Net Pay Thickness	Feet
K	= Permeability	md
K_1	= Permeability (From Net Pay Zone h_1)	md
m	= Slope Extrapolated Pressure Plot (Psi^2/cycle Gas)	psi/cycle
OF_1	= Maximum Indicated Flow Rate	MCF/D
OF_2	= Minimum Indicated Flow Rate	MCF/D
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_e	= Total Flow Time	Minutes
T	= Temperature Rankine	°R
Z	= Compressibility Factor	——
μ	= Viscosity Gas or Liquid	CP
Log	= Common Log	

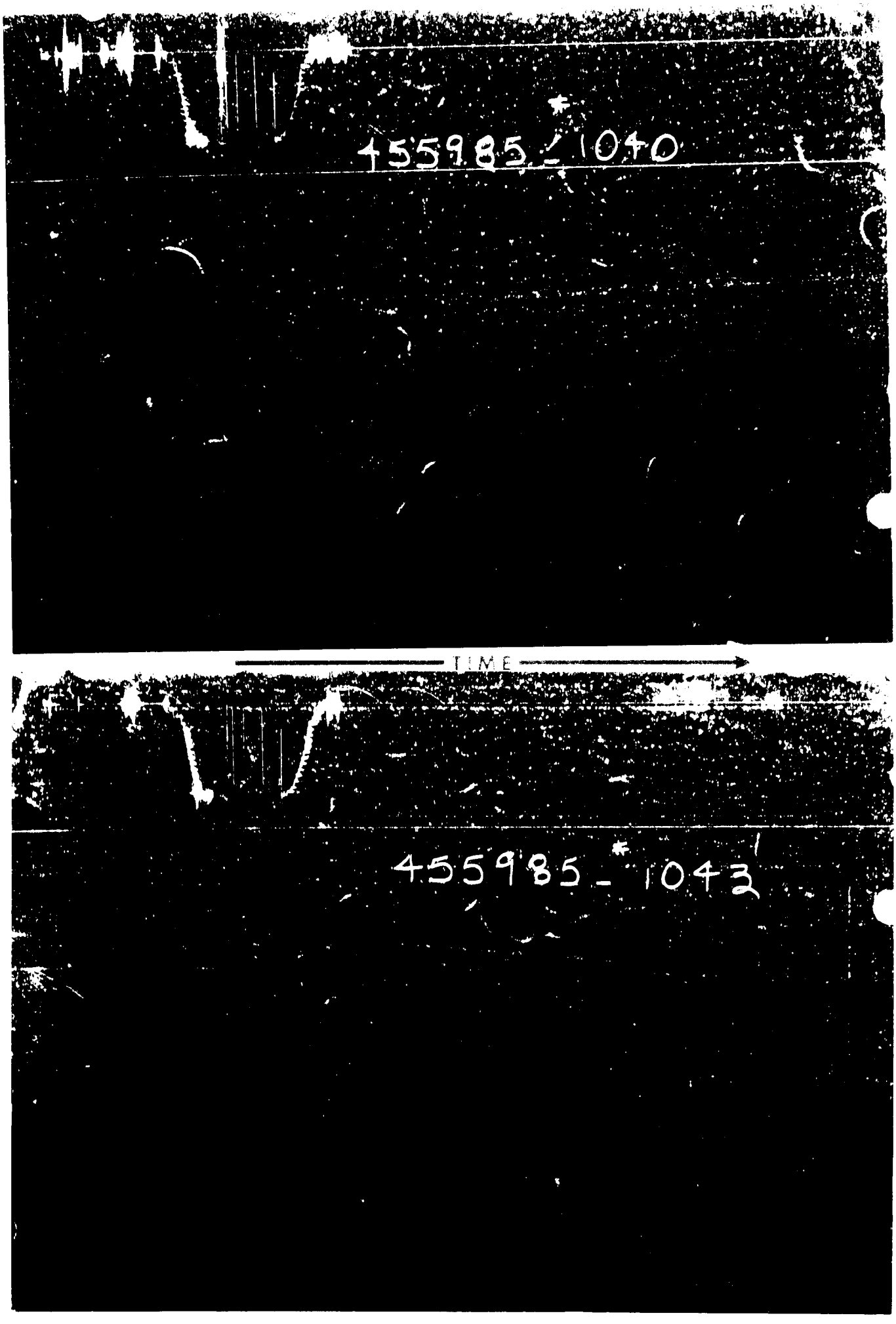
* Potentiometric Surface Reference to Rotary Table When Elevation Not Given, Fresh Water Corrected to 100° F.

Formation Testing Service Report



HALLIBURTON SERVICES

DUNCAN, OKLAHOMA


455985 1040
TIME
PRESSURE
455985 1042

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	8-30-69	Ticket Number	455985
Kind of Job	OPEN HOLE	Halliburton District	BRISBANE
Tester	MAC NEIL	Witness	MILLHIEM
Drilling Contractor	RICHTER BANDEN (WOODSIDE)		NM S

EQUIPMENT & HOLE DATA

Formation Tested	Otway Group		
Elevation	-		Ft.
Net Productive Interval	1485' - 1511'		Ft.
All Depths Measured From	Kelly Bushing		
Total Depth	1511'		Ft.
Main Hole/Casing Size	-		
Drill Collar Length	297.91	I.D. ?	
Drill Pipe Length	1154'	I.D. -	
Packer Depth(s)	1485' - 1480		Ft.
Depth Tester Valve	1465'		Ft.

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

Recovered 15' Feet of drilling mud
Recovered _____ Feet of _____
Recovered _____ Feet of _____
Recovered _____ Feet of _____
Recovered _____ Feet of _____

Meas. From Tester Valve

Remarks: Tool opened for a 9 minute first flow. Rotated tool for a 18 minute first closed in pressure. Tool reopened for a 30 minute second flow with a weak blow. Took a 31 minute second closed in pressure.

TEMPERATURE	Gauge No. 1040 Depth: 1470 Ft.	Gauge No. 1043 Depth: 1507' Ft.	Gauge No. Depth: Ft.	TIME
	24 Hour Clock	24 Hour Clock	Hour Clock	Tool Opened A.M. 9:55 P.M.
Est. 98 °F.	Blanked Off NO	Blanked Off YES	Blanked Off	Tool Closed A.M. 10:52 P.M.
Actual °F.	Pressures	Pressures	Pressures	

		Field	Office	Field	Office	Field	Office	Reported Minutes	Computed Minutes
Initial Hydrostatic		724.6	741	732.8	763				
First Period	Flow Initial	14.5	7	14.4	29			———	———
	Flow Final	29.0	10	20.1	30			9	9
	Closed in	637.7	630	660.9	652			19	18
Second Period	Flow Initial	14.5	17	28.7	45			———	———
	Flow Final	29.0	36	57.5	57			30	30
	Closed in	637.7	630	660.9	654			30	31
Third Period	Flow Initial							———	———
	Flow Final								
	Closed in								
Final Hydrostatic		724.6	717	732.8	744			———	———

Legal Location Sec. - Twp. - Rng. -
Lease Name HINDHAUGH CREEK
Well No. 1
Test No. 1
Field Area WILDCAT
Tested Interval 1485' - 1511'
County -
State VICTORIA
Lease Owner/Company Name PURSUIT OIL N/L

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FORMATION TEST DATA

LITTLE'S 69429 15M 4/69—33, 34-13

5

Gauge No.	1040	Depth	1470	Clock No.	7498	24 hour	Ticket No.	455985

	First Flow Period		First Closed In Pressure			Second Flow Period		Second Closed In Pressure			Third Flow Period		Third Closed In Pressure		
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.
0	.000	7	.000		10	.000	17	.000		36					
1	.032	10	.0069		625	.017	14	.0106		629					
2			.0138		629	.034	19	.0212		630					
3			.0207		630	.051	25	.0318		630					
4			.0276		630	.068	28	.0424		630					
5			.0345		630	.085	32	.0530		630					
6			.0414		630	.102	36	.0636		6 30					
7			.0483		630			.0742		630					
8			.0552		630			.0848		630					
9			.062		630			.0954		630					
10								.110		630*					
11															
12															
13															
14															
15															

Gauge No.	1043	Depth	1507'	Clock No.	8094	hour	24

0	.000	29	.000		30	.000	45	.000		57					
1	.031	30	.007		647	.0172	37	.0105		649					
2			.014		652	.0344	40	.0210		652					
3			.021		652	.0516	45	.0315		652					
4			.028		652	.0688	49	.0420		652					
5			.035		652	.0860	53	.0525		652					
6			.042		652	.103	57	.0630		654					
7			.049		652			.0735		654					
8			.056		652			.0840		654					
9			.063		652			.0945		654					
10								.109		654*					
11															
12															
13															
14															
15															

Reading Interval	2	5	3		Minutes

REMARKS: * INTERVAL = 4 MINUTES.

5

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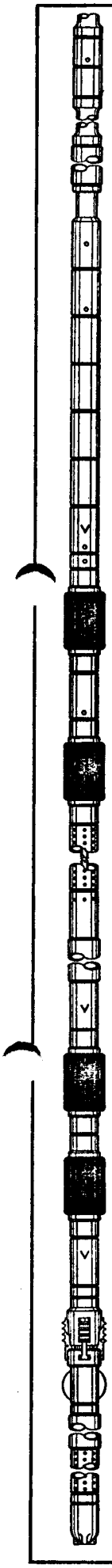
SPECIAL PRESSURE DATA

LITTLE'S 63428 10M 4/69—13, 14-13

455985



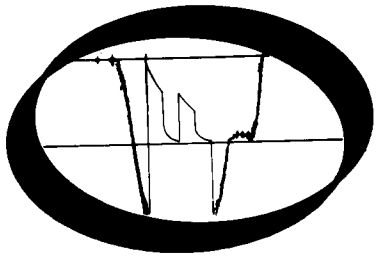
	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub	5.75"	2.75	12.0"	
Water Cushion Valve				
Drill Pipe	4½"			
Drill Collars				
Handling Sub & Choke Assembly	4.50	2.58	24	
Dual CIP Valve	5.03	.87	47.98	
Dual CIP Sampler				
Hydro-Spring Tester	5.00	.75	60.21	1465'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5.00"		49.63	1470'
Hydraulic Jar	5.00"	1.75	39.46	
VR Safety Joint	5.00"	1.00	33.40	
Pressure Equalizing Crossover				
Packer Assembly				
Distributor				
Packer Assembly				
Flush Joint Anchor				
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case				
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly	6.25"	1.75	72.33	1480'
Packer Assembly	6.25"	1.75	72.33	1485'
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor	5.00	2.37	20'	
Blanked-Off B.T. Running Case	5.00	2.44	48.71	1507

NOMENCLATURE

b	= Approximate Radius of Investigation	Feet
b_1	= Approximate Radius of Investigation (Net Pay Zone h_1)	Feet
D.R.	= Damage Ratio	——
El	= Elevation	Feet
GD	= B.T. Gauge Depth (From Surface Reference)	Feet
h	= Interval Tested	Feet
h_1	= Net Pay Thickness	Feet
K	= Permeability	md
K_1	= Permeability (From Net Pay Zone h_1)	md
m	= Slope Extrapolated Pressure Plot (Psi^2/cycle Gas)	psi/cycle
OF_1	= Maximum Indicated Flow Rate	MCF/D
OF_2	= Minimum Indicated Flow Rate	MCF/D
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	

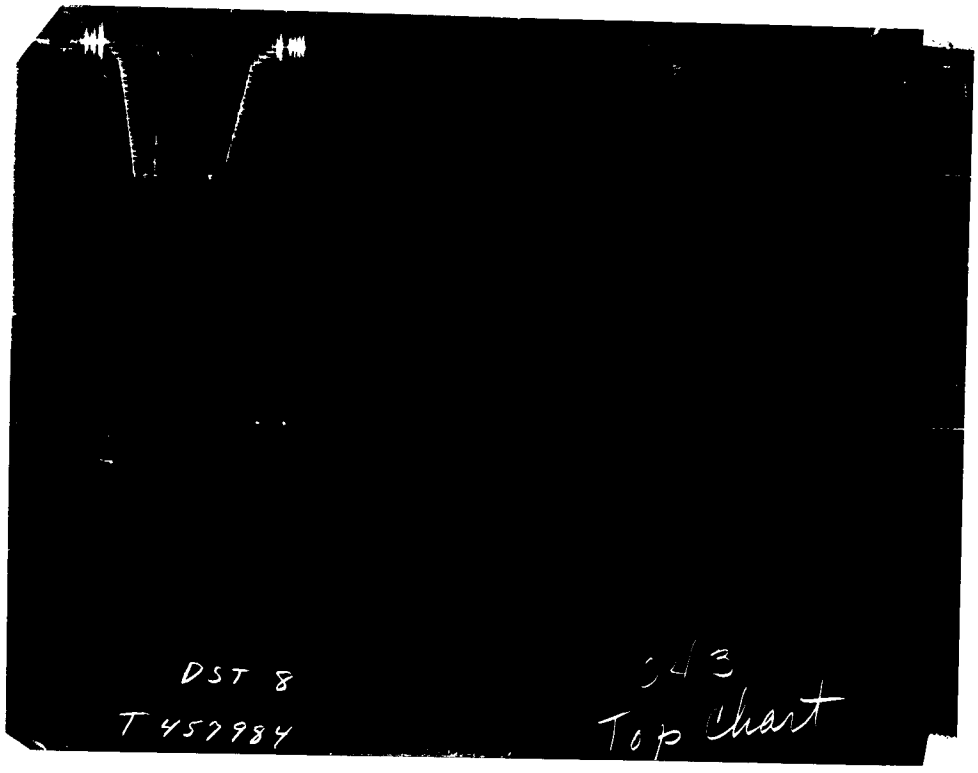
* Potentiometric Surface Reference to Rotary Table When Elevation Not Given, Fresh Water Corrected to 100° F.

Formation Testing Service Report



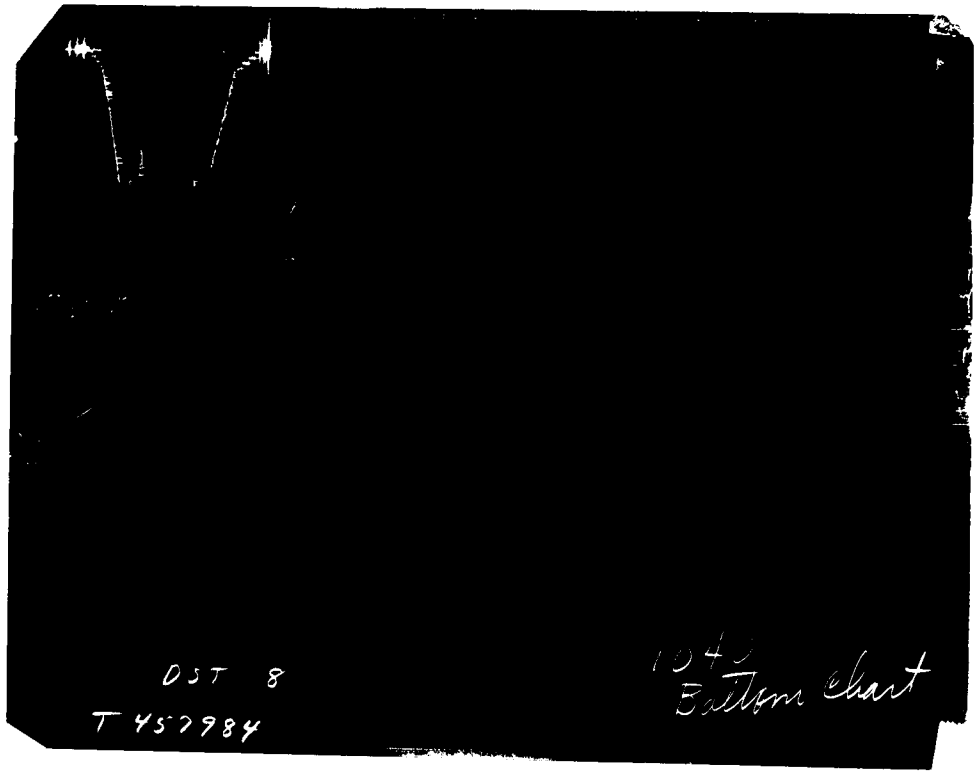
HALLIBURTON COMPANY

DUNCAN, OKLAHOMA



PRESSURE

TIME



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 November 8, 1969 Ticket Number T 457984
Kind of Job Drill stem test w/RTTS Hook Wall Halliburton District Brisbane
Tester D. Knackstedt Witness K. Milheim
Drilling Contractor Woodside Rig-Richter Bawden Labour

EQUIPMENT & HOLE DATA

Formation Tested _____
Elevation 244 K.B. Ft.
Net Productive Interval _____ Ft.
All Depths Measured From K.B.
Total Depth 7782 Ft.
Main Hole/Casing Size 8½
Drill Collar Length 268 I.D. 2¼
Drill Pipe Length 1956 I.D. 3½ IF 13.30
Packer Depth(s) 2230 Ft.
Depth Tester Valve 2225 Ft.

Cushion TYPE None AMOUNT ____ Ft. Depth Back Pres. Valve ____ Surface Choke None Bottom Choke 5/8

Recovered 240 Feet of Mud
Recovered ____ Feet of ____
Recovered ____ Feet of ____
Recovered ____ Feet of ____
Recovered ____ Feet of ____

Meas. From Tester Valve

Remarks 8:59 p.m. Tool open, Strong blow to weak blow - dead at 9:24 p.m.
9:28 p.m. Tool Closed In
10:28 p.m. Tool off bottom
MISS RUN - ANCHOR PLUGGED

TEMPERATURE	Gauge No. 1043 Depth: 2226 Ft.	Gauge No. ____ Depth: ____ Ft.	Gauge No. 1040 Depth: 2245 Ft.	TIME
	24 Hour Clock	Hour Clock	24 Hour Clock	Tool Opened A.M. P.M.
Est. 120 °F.	Blanked Off No	Blanked Off	Blanked Off Yes	
Actual °F.	Pressures	Pressures	Pressures	Tool Closed A.M. P.M.

		Field	Office	Field	Office	Field	Office	Reported Minutes	Computed Minutes
Initial Hydrostatic		1058	1049			1034	1054		
First Period	Flow Initial	43	55			288	297	——	——
	Flow Final	101	112			948	957		
	Closed in								
Second Period	Flow Initial							——	——
	Flow Final								
	Closed in								
Third Period	Flow Initial							——	——
	Flow Final								
	Closed in	971	961			948	970		
Final Hydrostatic		1058	1027			1034	1036	——	——

Legal Location Sec. - Twp. - Rng.
Lease Name Hindhaugh Creek
Well No. 1
Test No. 8
Tested Interval Perforations 2239 - 2259
Field Area Moriac Victoria
County
State Victoria
Lease Owner/Company Name Pursuit Oil Company

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FORMATION TEST DATA

LITTLE'S 63426 4/69—30,31-13

Gauge No. 1043	Depth 2226	Clock 24 hour	Ticket No. T 457984

	First Flow Period		Initial Closed In Pressure			Second Flow Period		Final Closed In Pressure		
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.
P_0	.000	55	.000		112					
P_1	.018	108	.0205		908					
P_2	.036	111	.0410		957					
P_3	.054	112	.0615		958					
P_4	.072	112	.0820		960					
P_5	.090	112	.1025		960					
P_6			.1230		961					
			.1435		961					
P_8			.1640		961					
P_9			.1845		961					
P_{10}			.205		961					

Gauge No. 1040	Depth 2245	Clock 24 hour

P_0	.000	297	.000		957					
P_1	.0186	942	.0201		959					
P_2	.0372	952	.0402		964					
P_3	.0558	954	.0603		965					
P_4	.0744	955	.0804		967					
P_5	.0930	957	.1005		967					
P_6			.1206		968					
P_7			.1407		968					
P_8			.1608		968					
P_9			.1809		970					
P_{10}			.201		970					
Reading Interval										Minutes

REMARKS:

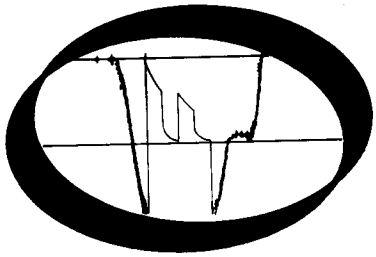
SPECIAL PRESSURE DATA

NOMENCLATURE

b	= Approximate Radius of Investigation	Feet
b_1	= Approximate Radius of Investigation (Net Pay Zone h_1)	Feet
D.R.	= Damage Ratio	—
El	= Elevation	Feet
GD	= B.T. Gauge Depth (From Surface Reference)	Feet
h	= Interval Tested	Feet
h_1	= Net Pay Thickness	Feet
K	= Permeability	md
K_1	= Permeability (From Net Pay Zone h_1)	md
m	= Slope Extrapolated Pressure Plot (Psi^2/cycle Gas)	psi/cycle
OF_1	= Maximum Indicated Flow Rate	MCF/D
OF_2	= Minimum Indicated Flow Rate	MCF/D
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_{et}	= 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_e	= Total Flow Time	Minutes
T	= Temperature Rankine	°R
Z	= Compressibility Factor	—
μ	= Viscosity Gas or Liquid	CP
Log	= Common Log	

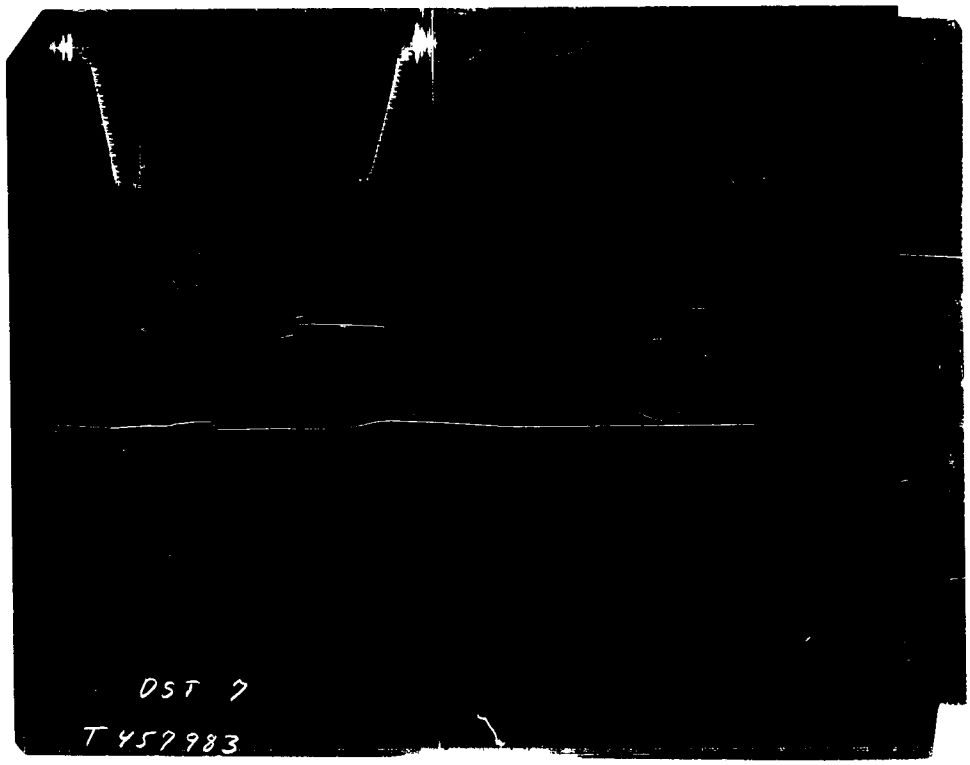
* Potentiometric Surface Reference to Rotary Table When Elevation Not Given, Fresh Water Corrected to 100° F.

Formation Testing Service Report

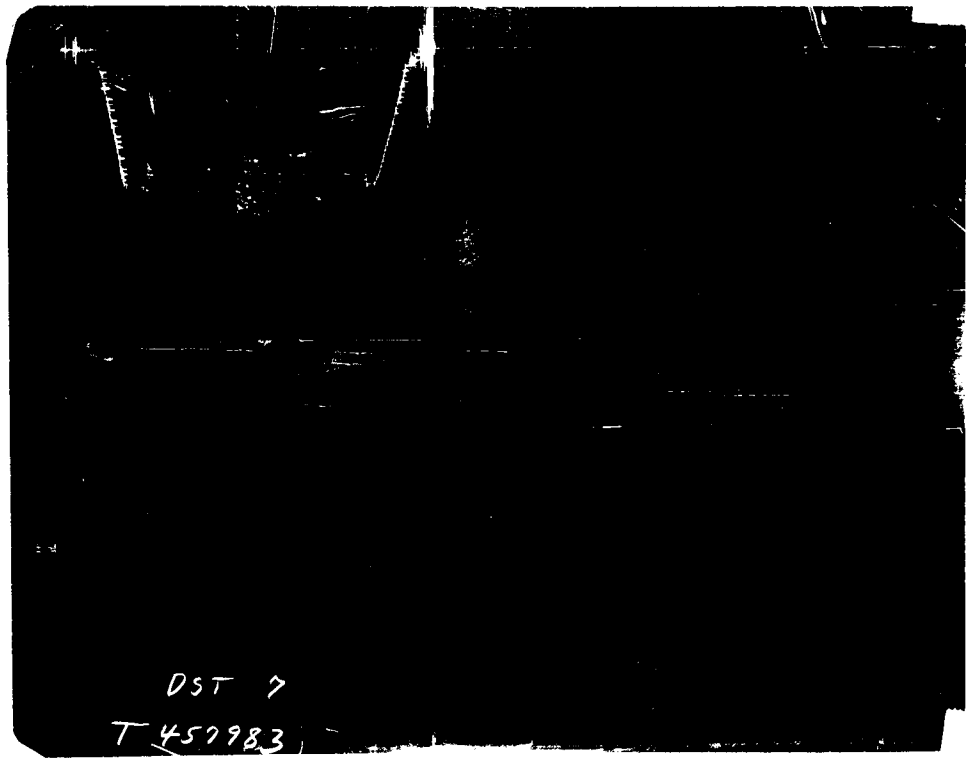


HALLIBURTON COMPANY

DUNCAN, OKLAHOMA



PRESSURE



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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 November 7, 1969 Ticket Number T 457983
Kind of Job Drill Stem Test w/-RTTS HookWall Halliburton District Brisbane
Tester D. Knackstedt Witness K. Milheim
Drilling Contractor Woodside Rig-Richter Bawden Labour

EQUIPMENT & HOLE DATA

Formation Tested _____
Elevation 244 K.B. Ft.
Net Productive Interval _____ Ft.
All Depths Measured From K.B.
Total Depth 7782 Plug Back 2406 Ft.
Main Hole/Casing Size 9-5/8 - 36lb.
Drill Collar Length 386 I.D. 2¼
Drill Pipe Length 2011 I.D. 3½ 13.30 IF
Packer Depth(s) 2300 Ft.
Depth Tester Valve 2293 Ft.

Cushion TYPE _____ AMOUNT None Ft. Depth Back Pres. Valve _____ Surface Choke None Bottom Choke 5/8

Recovered 1100 Feet of Mud to Muddy Gas cut Salt H20
Recovered 1110 Feet of Gas cut Salt H20
Recovered _____ Feet of _____
Recovered _____ Feet of _____
Recovered _____ Feet of _____

Meas. From Tester Valve

Remarks 7:13 a.m. Tool open strong blow decreasing gradually to very weak blow in 3 hours
10:13 a.m. Tool closed in
1:13 p.m. Tool off bottom

TEMPERATURE	Gauge No. 1043	Gauge No.	Gauge No. 1040	TIME
	Depth: 2294 Ft.	Depth: Ft.	Depth: 2315 Ft.	
	24 Hour Clock	Hour Clock	24 Hour Clock	Tool Opened A.M. P.M.
Est. 120 °F.	Blanked Off No	Blanked Off	Blanked Off Yes	
Actual °F.	Pressures	Pressures	Pressures	Tool Closed A.M. P.M.

		Field	Office	Field	Office	Field	Office	Reported Minutes	Computed Minutes
Initial Hydrostatic		1077	1082			1102	1088		
First Period	Flow Initial	100	92			174	194	——	——
	Flow Final	963	976			985	984		
	Closed in							——	——
Second Period	Flow Initial								
	Flow Final								
	Closed in							——	——
Third Period	Flow Initial								
	Flow Final								
	Closed in	984	987			1007	999		
Final Hydrostatic		1077	1068			1102	1077	——	——

Legal Location Sec. - Twp. - Rng.
Lease Name: Hindhaugh Creek
Well No.: 1
Test No.: 7
Field Area
Tested Interval: Perforations 2328-2335½, 2345-2360 & 2366-2373½
County
State
Lease Owner/Company Name: Pursuit Oil N.L.

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FORMATION TEST DATA

LITTLE'S 83426 4/69—30,31-13

Gauge No.	1043	Depth	2294	Clock	24 hour	Ticket No.	T 457983

	First Flow Period		Initial Closed In Pressure			Second Flow Period		Final Closed In Pressure		
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.
P_0	.000	92	.000		976					
P_1	.0603	305	.0603		983					
P_2	.1206	461	.1206		984					
P_3	.1809	595	.1809		986					
P_4	.2412	700	.2412		986					
P_5	.3015	786	.3015		986					
P_6	.3618	851	.3618		987					
P_7	.4221	918	.4221		987					
P_8	.4824	941	.4824		987					
P_9	.5427	963	.5427		987					
P_{10}	.603	976	.603		987					

Gauge No.	1040	Depth	2315	Clock	24 hour				
P_0	.000	194	.000		984				
P_1	.06	532	.06		993				
P_2	.12	616	.12		996				
P_3	.18	700	.18		996				
P_4	.24	774	.24		997				
P_5	.30	835	.30		997				
P_6	.36	884	.36		997				
P_7	.42	914	.42		997				
P_8	.48	949	.48		999				
P_9	.54	971	.54		999				
P_{10}	.60	984	.60		999				
Reading Interval									Minutes

REMARKS:

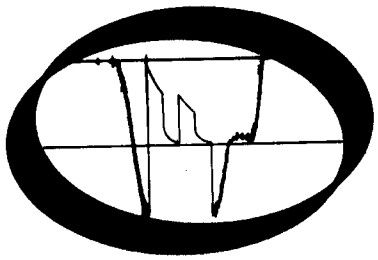
SPECIAL PRESSURE DATA

NOMENCLATURE

b	= Approximate Radius of Investigation	Feet
b_1	= Approximate Radius of Investigation (Net Pay Zone h_1)	Feet
D.R.	= Damage Ratio	—
El	= Elevation	Feet
GD	= B.T. Gauge Depth (From Surface Reference)	Feet
h	= Interval Tested	Feet
h_1	= Net Pay Thickness	Feet
K	= Permeability	md
K_1	= Permeability (From Net Pay Zone h_1)	md
m	= Slope Extrapolated Pressure Plot (Psi^2/cycle Gas)	psi/cycle
OF_1	= Maximum Indicated Flow Rate	MCF/D
OF_2	= Minimum Indicated Flow Rate	MCF/D
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_{et}	= 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_e	= 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.

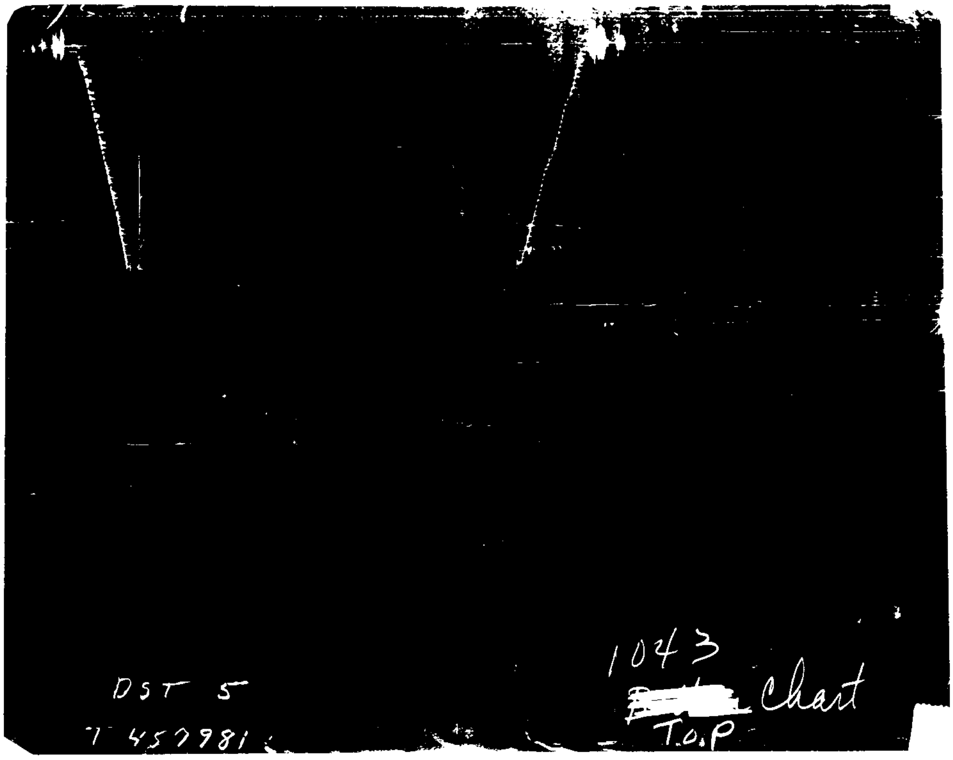
Formation Testing Service Report



HALLIBURTON COMPANY

DUNCAN, OKLAHOMA

PRESSURE



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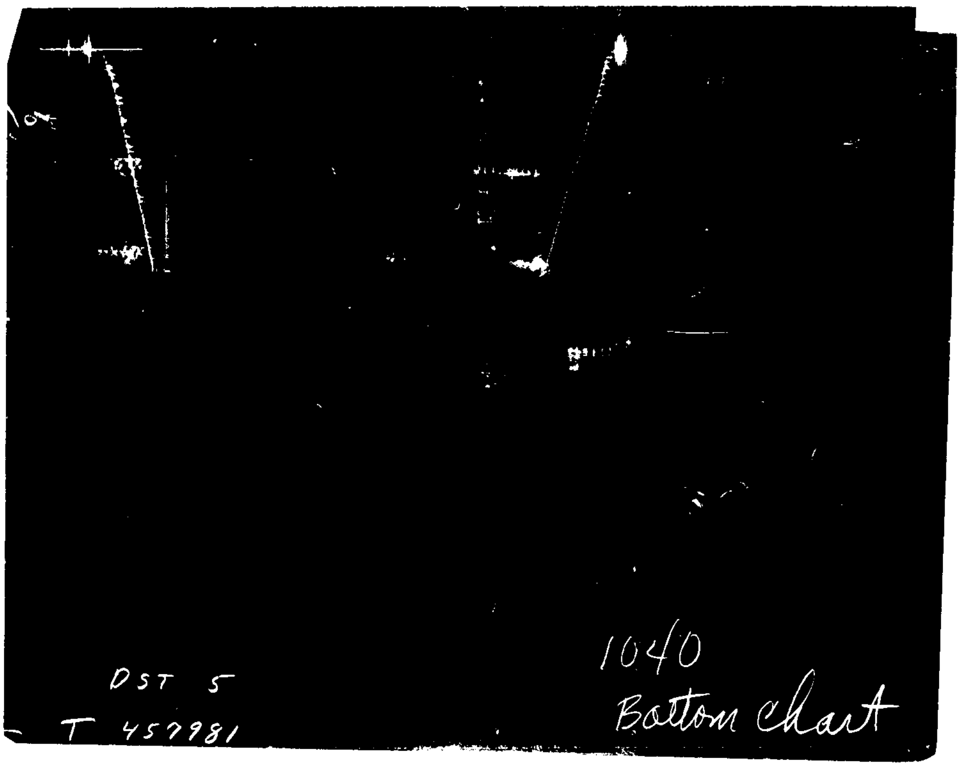

Each Horizontal Line Equals 1000 psi

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

Date November 4, 1969 Ticket Number T 457981
Kind of Job Drill Stem Test w/RTTS Hook Wall Halliburton District Brisbane
Tester D. Knackstedt Witness K. Milheim
Drilling Contractor Woodside Rig-RichterBawden Labour

EQUIPMENT & HOLE DATA

Formation Tested _____
Elevation 224 KB Ft.
Net Productive Interval _____ Ft.
All Depths Measured From K.B.
Total Depth 7782 Plug Back 3830 Ft.
Main Hole/Casing Size 9-5/8 - 36lb.
Drill Collar Length 90 I.D. 2¼
Drill Pipe Length 3636 I.D. 3½-13.30 IF
Packer Depth(s) 3734 Ft.
Depth Tester Valve 3729 Ft.

Cushion TYPE None AMOUNT _____ Ft. Depth Back Pres. Valve _____ Surface Choke None Bottom Choke 5/8

Recovered 760 Feet of Mud and muddy salt H20
Recovered 1170 Feet of Salt H20
Recovered _____ Feet of _____
Recovered _____ Feet of _____
Recovered _____ Feet of _____

Meas. From Tester Valve

Remarks 1:41 a.m. Tool opened - weak to Fair blow
10:18 a.m. Tool closed in
12.00 noon Tool off bottom

TEMPERATURE	Gauge No. 1043 Depth: 3730 Ft.	Gauge No. _____ Depth: _____ Ft.	Gauge No. 1040 Depth: 3751 Ft.	TIME
	24 Hour Clock	Hour Clock	24 Hour Clock	Tool Opened A.M. P.M.
Est. 140 °F.	Blanked Off No	Blanked Off	Blanked Off Yes	
Actual °F.	Pressures	Pressures	Pressures	Tool Closed A.M. P.M.

		Field	Office	Field	Office	Field	Office	Reported Minutes	Computed Minutes
Initial Hydrostatic		1755	1745			1769	1764		
First Period	Flow Initial	86	109			87	97	——	——
	Flow Final	977	963			985	967		
	Closed in								
Second Period	Flow Initial							——	——
	Flow Final								
	Closed in								
Third Period	Flow Initial							——	——
	Flow Final								
	Closed in	1366	1360			1376	1371		
Final Hydrostatic		1755	1732			1769	1748	——	——

Legal Location Sec. - Twp. - Rng.
Lease Name Hindhaugh Creek
Well No. 1
Test No. 5
Tested Interval Perforations 3770 - 3800
Field Area Moriac Victoria
County
State Victoria
Lease Owner/Company Name Pursuit Oil N.L.

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FORMATION TEST DATA

LITTLE'S 83426 4/69—30,31-13

Gauge No. 1043	Depth 3730	Clock 24 hour	Ticket No. T 457981

	First Flow Period		Initial Closed In Pressure			Second Flow Period		Final Closed In Pressure		
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.
P_0	.000	109	.000		963					
P_1	.172	309	.0344		1107					
P_2	.344	433	.0688		1166					
P_3	.516	529	.1032		1208					
P_4	.688	609	.1376		1239					
P_5	.860	684	.1720		1268					
P_6	1.032	750	.2064		1291					
[illegible]	1.204	810	.2408		1311					
P_8	1.376	865	.2752		1329					
P_9	1.548	889	.3096		1346					
P_{10}	1.72	963	.344		1360					

Gauge No. 1040	Depth 3751	Clock 24 hour

P_0	.000	97	.000		967					
P_1	.1726	293	.0346		1110					
P_2	.3452	422	.0692		1171					
P_3	.5178	520	.1038		1215					
[illegible]	.6904	606	.1384		1248					
P_5	.863	681	.173		1275					
P_6	1.0356	749	.2076		1300					
P_7	1.2082	810	.2422		1320					
P_8	1.3808	867	.2768		1339					
P_9	1.5534	919	.3114		1357					
P_{10}	1.726	967	.346		1371					

Reading Interval Minutes

REMARKS:

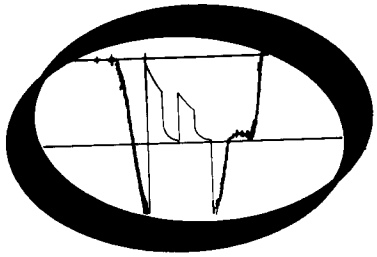
SPECIAL PRESSURE DATA

NOMENCLATURE

b	= Approximate Radius of Investigation	Feet
b_1	= Approximate Radius of Investigation (Net Pay Zone h_1)	Feet
D.R.	= Damage Ratio	——
El	= Elevation	Feet
GD	= B.T. Gauge Depth (From Surface Reference)	Feet
h	= Interval Tested	Feet
h_1	= Net Pay Thickness	Feet
K	= Permeability	md
K_1	= Permeability (From Net Pay Zone h_1)	md
m	= Slope Extrapolated Pressure Plot (Psi^2/cycle Gas)	psi/cycle
OF_1	= Maximum Indicated Flow Rate	MCF/D
OF_2	= Minimum Indicated Flow Rate	MCF/D
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	

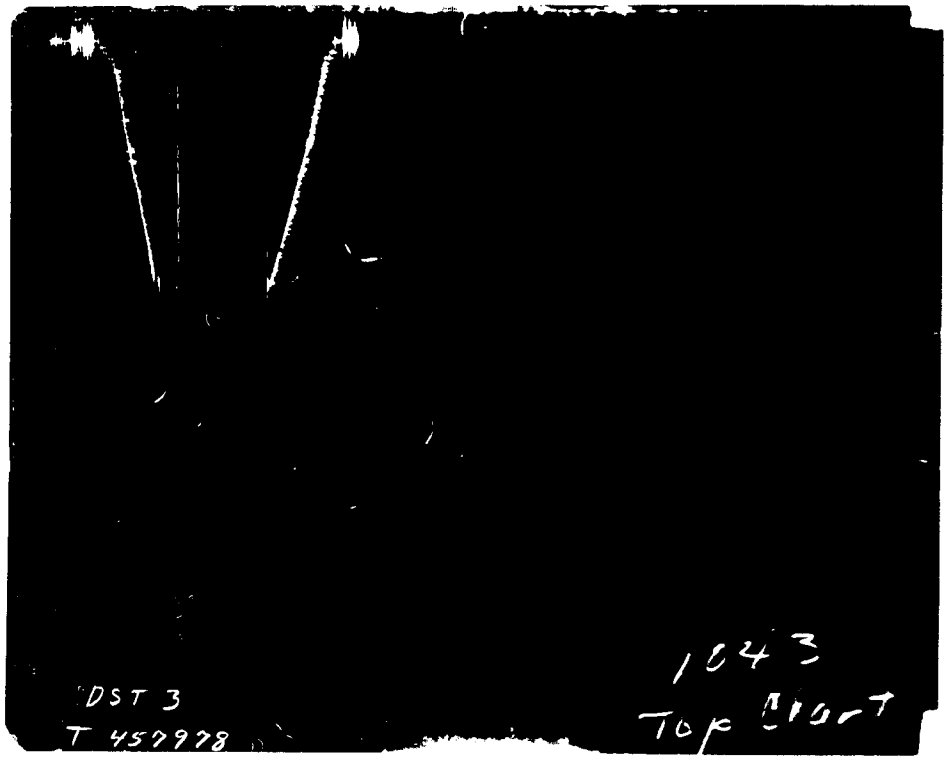
* Potentiometric Surface Reference to Rotary Table When Elevation Not Given, Fresh Water Corrected to 100° F.

Formation Testing Service Report

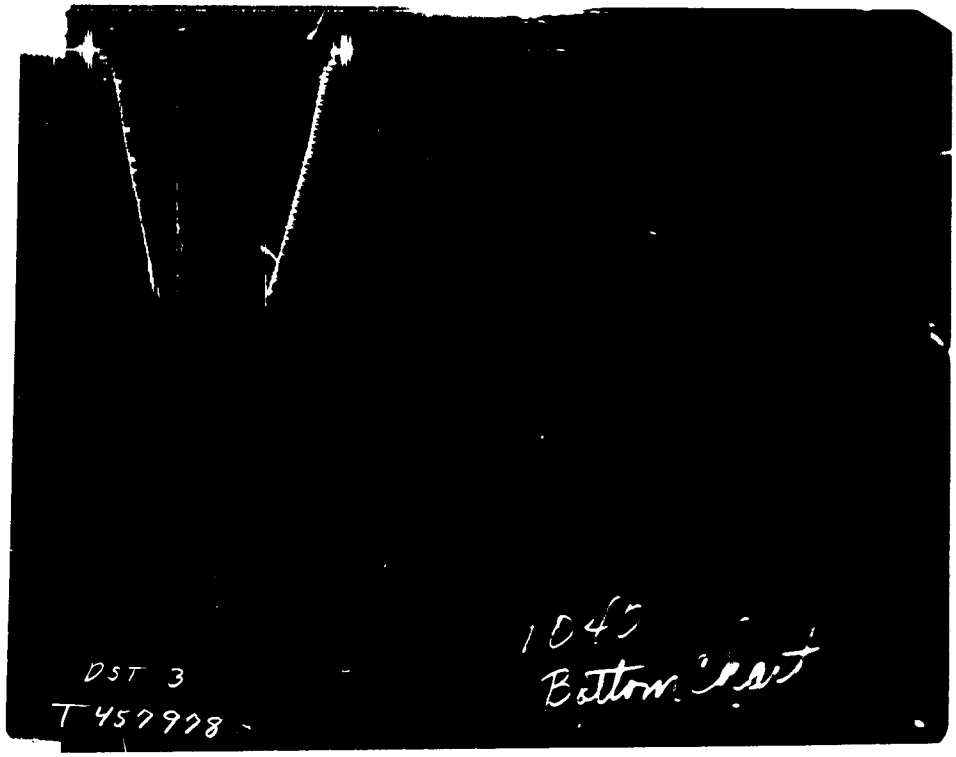


HALLIBURTON COMPANY

DUNCAN, OKLAHOMA



PRESSURE



Each Ho

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 November 2, 1969 Ticket Number T 457978
Kind of Job Drill Stem Test w/RTTS Hook Wall
Halliburton District Brisbane
Tester D. Knackstedt Witness K. Milheim
Drilling Contractor Woodside Rig - Richter Bawden Labour

EQUIPMENT & HOLE DATA

Formation Tested _____
Elevation 244 K.B. Ft.
Net Productive Interval _____ Ft.
All Depths Measured From K.B.
Total Depth 7782 Ft.
Main Hole/Casing Size 9-5/8-36lb. at test 12⅓ Hole
Drill Collar Length 286 I.D. 2¼
Drill Pipe Length 3829 I.D. 3½-13.30 I.F.
Packer Depth(s) 4130 Ft.
Depth Tester Valve 4124 Ft.

Cushion TYPE None AMOUNT _____ Ft. Depth Back Pres. Valve _____ Surface Choke None Bottom Choke 5/8

Recovered 60 Feet of Mud
Recovered _____ Feet of _____
Recovered _____ Feet of _____
Recovered _____ Feet of _____
Recovered _____ Feet of _____

Meas. From Tester Valve

Remarks 12:44 p.m. Tool opened - Fair Blow
1:24 p.m. to 1:44 p.m. blow gradually decreased to weak blow
1:57 p.m. tool closed in - dead
3:10 p.m. tool off bottom

TEMPERATURE	Gauge No. 1043 Depth: 4125 Ft.	Gauge No. Depth: Ft.	Gauge No. 1040 Depth: 4144 Ft.	TIME
	24 Hour Clock	Hour Clock	24 Hour Clock	Tool Opened A.M. P.M.
Est. 150 °F.	Blanked Off No	Blanked Off	Blanked Off Yes	
Actual °F.	Pressures	Pressures	Pressures	Tool Closed A.M. P.M.

	Field	Office	Field	Office	Field	Office	Reported Minutes	Computed Minutes
Initial Hydrostatic	1956	1948			1959	1961		
First Period Flow Initial	28	59			58	74	——	——
First Period Flow Final	28	43			58	58		
First Period Closed in							——	——
Second Period Flow Initial								
Second Period Flow Final								
Second Period Closed in							——	——
Third Period Flow Initial								
Third Period Flow Final								
Third Period Closed in	747	772			797	786		
Final Hydrostatic	1927	1922			1930	1946	——	——

Legal Location Sec. - Twp. - Rng.
Lease Name Hindhaugh Creek
Well No. 1
Test No. 3
Field Area Moriac Victoria
Tested Interval Perforations 4144 - 4152 & 4162 - 4165
County
State Victoria
Lease Owner/Company Name Pursuit Oil N.L.

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FORMATION TEST DATA

LITTLE'S 83426 4/69—30,31-13

Gauge No. 1043 | Depth 4125 | Clock 24 hour | Ticket No. T457978

	First Flow Period		Initial Closed In Pressure			Second Flow Period		Final Closed In Pressure		
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.
P_0	.000	59	.000		43					
P_1	.024	58	.0247		56					
P_2	.048	50	.0494		81					
P_3	.072	42	.0741		135					
P_4	.096	40	.0988		217					
P_5	.120	40	.1235		329					
P_6	.144	40	.1482		448					
[illegible]	.168	40	.1729		552					
P_8	.192	40	.1976		641					
P_9	.216	43	.2223		714					
P_{10}	.240	43	.247		772					

Gauge No. 1040 | Depth 4144 | Clock 24 hour

P_0	.000	74	.000		58					
P_1	.0236	73	.0248		70					
P_2	.0472	65	.0496		90					
P_3	.0708	58	.0744		142					
P_4	.0944	57	.0992		222					
P_5	.1180	57	.1240		333					
P_6	.1416	57	.1488		452					
P_7	.1652	57	.1736		561					
P_8	.1888	57	.1984		651					
P_9	.2124	58	.2232		725					
P_{10}	.236	58	.248		786					

Reading Interval Minutes

REMARKS:

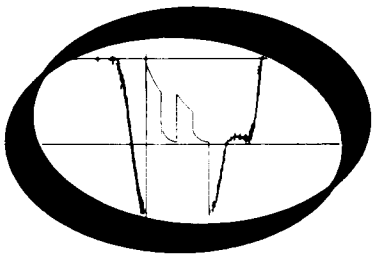
SPECIAL PRESSURE DATA

NOMENCLATURE

b	= Approximate Radius of Investigation	Feet
b_1	= Approximate Radius of Investigation (Net Pay Zone h_1)	Feet
D.R.	= Damage Ratio	——
El	= Elevation	Feet
GD	= B.T. Gauge Depth (From Surface Reference)	Feet
h	= Interval Tested	Feet
h_1	= Net Pay Thickness	Feet
K	= Permeability	md
K_1	= Permeability (From Net Pay Zone h_1)	md
m	= Slope Extrapolated Pressure Plot (Psi^2/cycle Gas)	psi/cycle
OF_1	= Maximum Indicated Flow Rate	MCF/D
OF_2	= Minimum Indicated Flow Rate	MCF/D
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_{et}	= 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_e	= Total Flow Time	Minutes
T	= Temperature Rankine	°R
Z	= Compressibility Factor	——
μ	= Viscosity Gas or Liquid	CP
Log	= Common Log	

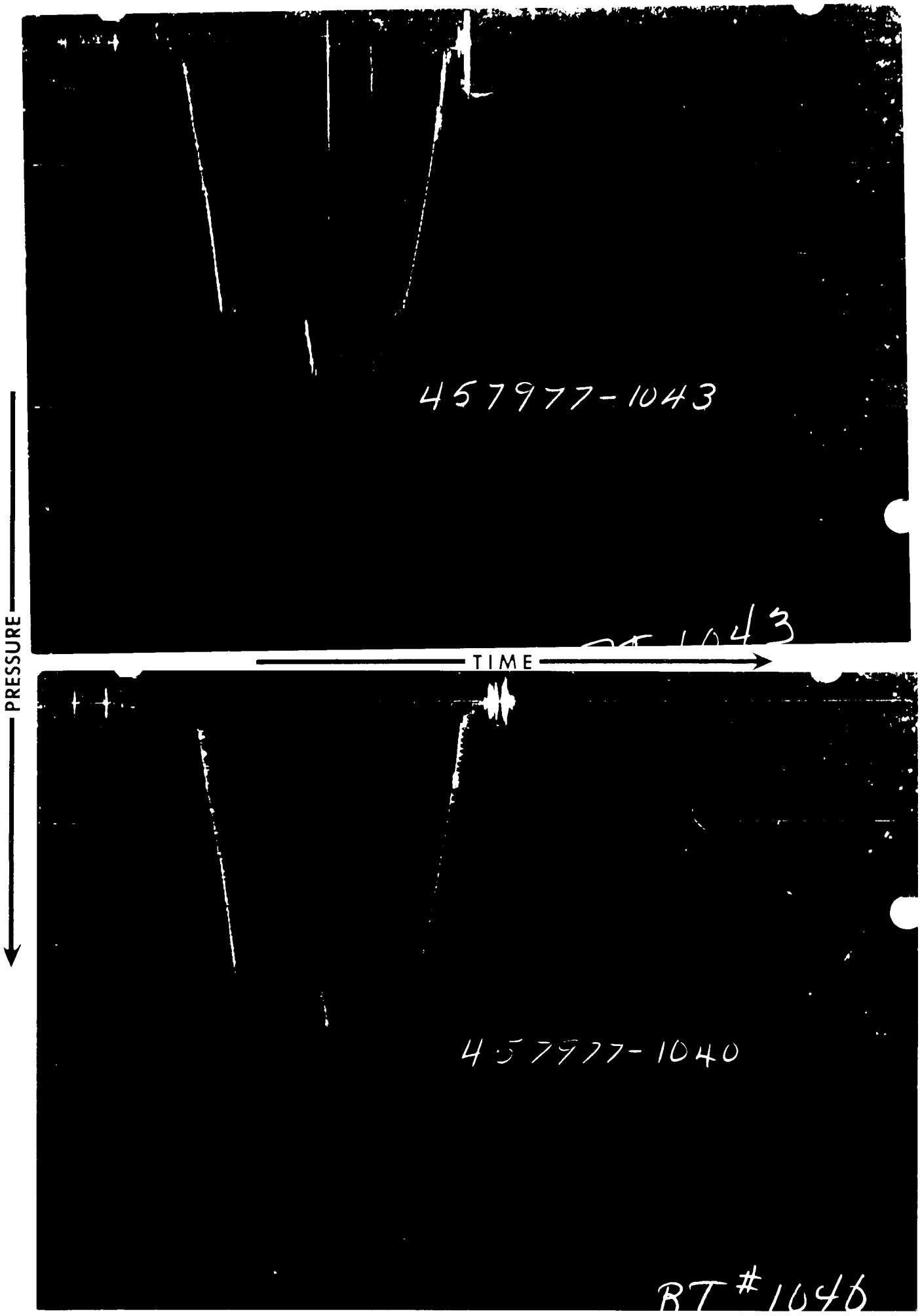
* Potentiometric Surface Reference to Rotary Table When Elevation Not Given, Fresh Water Corrected to 100° F.

Formation Testing Service Report



HALLIBURTON SERVICES

DUNCAN, OKLAHOMA



Each Horizontal Line Equa[illegible] to 1000 p s[illegible]

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	10.3	vis	45	cp

Date 9-27-69 Ticket Number 457977
Kind of Job OPEN HOLE Halliburton District BRISBANE
Tester MR. KNACKSTIDT Witness MR. MILHEIM
Drilling Contractor WOODSIDE-RICTOR BOWDEN LABOR DR

EQUIPMENT & HOLE DATA

Formation Tested -
Elevation _____ Ft.
Net Productive Interval _____ Ft.
All Depths Measured From Kelly Bushing
Total Depth 5132 Ft.
Main Hole/Casing Size 9 5/8 Set @ 4262-8½ Hole below
Drill Collar Length 296 I.D. 2 7/8"
Drill Pipe Length 4762 I.D. 3.826"
Packer Depth(s) 5066-5072 Ft.
Depth Tester Valve 5022 Ft.

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

Recovered 45 Feet of drilling mud
Recovered Feet of
Recovered Feet of
Recovered Feet of
Recovered Feet of

Meas. From Tester Valve

Remarks Opened tool for 11 minute first flow with a very weak blow and died. Closed tool for 32 minute first closed in pressure. Reopened tool for 30 minute second flow. No final closed in pressure.

TEMPERATURE	Gauge No. 1043 Depth: 5021 Ft.	Gauge No. 1040 Depth: 5129 Ft.	Gauge No. Depth: Ft.	TIME
	24 Hour Clock	24 Hour Clock	Hour Clock	Tool Opened 6:16 A.M.
Est. °F.	Blanked Off NO	Blanked Off Yes	Blanked Off	
Actual 182 °F.	Pressures	Pressures	Pressures	Tool Closed 7:29 A.M.

		Field	Office	Field	Office	Field	Office	Reported Minutes	Computed Minutes
Initial Hydrostatic		2673	2712	2719	2755				
First Period	Flow Initial	40	40	72	87			—	—
	Flow Final	23	43	72	90			11	
	Closed in	23	62	87	107			32	
Second Period	Flow Initial	28	49	72	101			—	—
	Flow Final	23	48	72	94			30	
	Closed In	-	-	-	-			-	
Third Period	Flow Initial							—	—
	Flow Final								
	Closed in								
Final Hydrostatic		2673	2700	2719	2745			—	—

Legal Location Sec. - Twp. - Rng. -
Lease Name HINDHAUGH
Well No. 1
Test No. 2
Tested Interval 5072'-5132'
Field Area GEELONG VICTORIA AUST.
County -
State VICTORIA
Lease Owner/Company Name PERSUIT OIL COMPANY

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FORMATION TEST DATA

LITTLE'S 83429 15M 4/69—33, 34-13

5

457977

	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub	5 5/8"		1'	4950'
Water Cushion Valve				
Drill Pipe				
Drill Collars	6"	2 7/8"	88.90"	
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	5/8"	4'	
Dual CIP Sampler				
Hydro-Spring Tester	5"	5/8"	4'	5022'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"		4'	5021'
Hydraulic Jar				
VR Safety Joint	5"	1"	3.5'	
Pressure Equalizing Crossover				
Packer Assembly	7½"	1¼"	6'	5066'
Distributor				
Packer Assembly	7½"	1¼"	6'	5072'
Flush Joint Anchor	5"	2¼"	9'	
Pressure Equalizing Tube	36"	2 7/8"	29.80"	
	5"	2¼"	10'	
Blanked-Off B.T. Running Case	5"		4'	5129'
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				

NOMENCLATURE

b	= Approximate Radius of Investigation	Feet
b_1	= Approximate Radius of Investigation (Net Pay Zone h_1)	Feet
D.R.	= Damage Ratio	——
El	= Elevation	Feet
GD	= B.T. Gauge Depth (From Surface Reference)	Feet
h	= Interval Tested	Feet
h_1	= Net Pay Thickness	Feet
K	= Permeability	md
K_1	= Permeability (From Net Pay Zone h_1)	md
m	= Slope Extrapolated Pressure Plot (Psi^2/cycle Gas)	psi/cycle
OF_1	= Maximum Indicated Flow Rate	MCF/D
OF_2	= Minimum Indicated Flow Rate	MCF/D
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.