

Ritchie Exploration  
Gneich 'P' 1 TWIN

**CONFIDENTIAL**

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INFORMATION  
CONFIDENTIAL

19-19s-21w

**ORIGINAL**

DST REPORT

GENERAL INFORMATION

DATE : 5/17/96  
 CUSTOMER : RITCHIE EXPLORATION INC  
 WELL : #1 TEST: 1  
 ELEVATION: 2275 GL  
 SECTION : 19  
 RANGE : 21W COUNTY: NESS  
 GAUGE SN#: 11018 RANGE : 42S

RELEASED 15-135-23933  
 OCT 6 1998  
 FROM CONFIDENTIAL

TICKET : 22007  
 LEASE : GNEICH P TWIN  
 GEOLOGIST: MILFORD  
 FORMATION: CHEROKEE SAND  
 TOWNSHIP : 19S  
 STATE : KS  
 CLOCK : 12

NOV  
 AUG 28

WELL INFORMATION

PERFORATION INTERVAL FROM: 4300.00 ft TO: 4320.00 ft TVD: 4320.0 ft  
 DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL  
 DEPTH OF RECORDERS: 4303.0 ft 4317.0 ft  
 TEMPERATURE: 117.0

DRILL COLLAR LENGTH: 0.0 ft I.D.: 0.000 in  
 WEIGHT PIPE LENGTH : 0.0 ft I.D.: 0.000 in  
 DRILL PIPE LENGTH : 4280.0 ft I.D.: 3.800 in  
 TEST TOOL LENGTH : 20.0 ft TOOL SIZE : 5.500 in  
 ANCHOR LENGTH : 20.0 ft ANCHOR SIZE: 5.500 in  
 SURFACE CHOKE SIZE : 0.750 in BOTTOM CHOKE SIZE: 0.750 in  
 MAIN HOLE SIZE : 7.875 in TOOL JOINT SIZE : 4.5 XH  
 PACKER DEPTH: 4295.0 ft SIZE: 6.630 in  
 PACKER DEPTH: 4300.0 ft SIZE: 6.630 in  
 PACKER DEPTH: 0.0 ft SIZE: 0.000 in  
 PACKER DEPTH: 0.0 ft SIZE: 0.000 in

MUD INFORMATION

DRILLING CON. : WHITE & ELLIS RIG 9  
 MUD TYPE : CHEMICAL VISCOSITY : 45.00 cp  
 WEIGHT : 9.200 ppg WATER LOSS: 11.400 cc  
 CHLORIDES : 4500 ppm  
 JARS-MAKE :  
 DID WELL FLOW?: NO SERIAL NUMBER:  
 REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK BLOW - BUILT TO 2 INCHES  
 THEN DECREASED TO 1/2 BY END. FINAL FLOW PERIOD  
 WEAK BLOW - 1/4 INCH BLOW - DIED IN 25 MINUTES.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
1.0	100.0	0.0	0.0	0.0	FREE OIL
50.0	0.0	0.0	70.0	30.0	MUDDY WATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 18000 PPM

RATE INFORMATION

OIL VOLUME:	0.0140 STB	TOTAL FLOW TIME:	75.0000 min.
GAS VOLUME:	0.0000 SCF	AVERAGE OIL RATE:	0.2693 STB/D
MUD VOLUME:	0.2104 STB	AVERAGE WATER RATE:	13.4653 STB/D
WATER VOLUME:	0.4909 STB		
TOTAL FLUID :	0.7153 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2122.00

Description	Duration	p1	p End
INITIAL FLOW	45.00	46.00	53.00
INITIAL SHUT-IN	30.00		288.00
FINAL FLOW	30.00	71.00	77.00
FINAL SHUT-IN	30.00		267.00

FINAL HYDROSTATIC PRESSURE: 2190.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2157.00

Description	Duration	p1	p End
INITIAL FLOW	45.00	79.56	67.54
INITIAL SHUT-IN	30.00		304.38
FINAL FLOW	30.00	110.09	97.14
FINAL SHUT-IN	30.00		282.17

FINAL HYDROSTATIC PRESSURE: 2150.00

Company: RITCHIE EXPLORATION INC.  
Well: #1 GNEICH P TWIN  
Field: TKT 22007 DST 1

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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
START FLOW 1				
1	0	10:45: 0	0.0000	79.56
10	0	10:46: 5	0.0180	84.19
19	0	10:47: 9	0.0360	76.79
28	0	10:48:14	0.0540	72.16
37	0	10:49:19	0.0719	69.39
46	0	10:50:24	0.0899	68.46
55	0	10:51:28	0.1079	67.54
64	0	10:52:33	0.1259	67.54
73	0	10:53:38	0.1439	67.54
82	0	10:54:43	0.1619	67.54
91	0	10:55:47	0.1798	67.54
100	0	10:56:52	0.1978	67.54
109	0	10:57:57	0.2158	67.54
118	0	10:59: 2	0.2338	67.54
127	0	11: 0: 6	0.2518	67.54
136	0	11: 1:11	0.2698	67.54
145	0	11: 2:16	0.2878	66.61
154	0	11: 3:21	0.3058	66.61
163	0	11: 4:25	0.3237	66.61
172	0	11: 5:30	0.3417	66.61
181	0	11: 6:35	0.3597	66.61
190	0	11: 7:40	0.3777	66.61
199	0	11: 8:44	0.3957	66.61
208	0	11: 9:49	0.4137	66.61
217	0	11:10:54	0.4316	66.61
226	0	11:11:59	0.4496	65.69
235	0	11:13: 3	0.4676	66.61
244	0	11:14: 8	0.4856	66.61
253	0	11:15:13	0.5036	66.61
262	0	11:16:18	0.5216	66.61
271	0	11:17:22	0.5396	66.61
280	0	11:18:27	0.5575	66.61
289	0	11:19:32	0.5755	66.61
298	0	11:20:37	0.5935	66.61
307	0	11:21:41	0.6115	66.61
316	0	11:22:46	0.6295	66.61
325	0	11:23:51	0.6475	66.61
334	0	11:24:56	0.6654	66.61
343	0	11:26: 0	0.6834	66.61
352	0	11:27: 5	0.7014	66.61
361	0	11:28:10	0.7194	66.61
370	0	11:29:15	0.7374	67.54
END FLOW 1				
START SHUTIN 1				
378	0	11:30:12	0.7534	68.46
379	0	11:30:19	0.7554	68.46
388	0	11:31:24	0.7734	83.26
397	0	11:32:29	0.7913	143.40
406	0	11:33:34	0.8093	148.02
410	0	11:34:38	0.8273	168.38
419	0	11:35:43	0.8453	192.43
428	0	11:36:48	0.8633	207.23
437	0	11:37:53	0.8813	222.04
446	0	11:38:57	0.8992	231.29

WESTERN TESTING CO., INC.

Company: RITCHIE EXPLORATION INC.  
Well: #1 GNEICH P TWIN  
Field: TKT 22007 DST 1

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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
455	0	11:40: 2	0.9172	238.69
464	0	11:41: 7	0.9352	245.17
473	0	11:42:12	0.9532	252.57
482	0	11:43:16	0.9712	257.19
491	0	11:44:21	0.9892	262.74
500	0	11:45:26	1.0072	265.52
509	0	11:46:31	1.0251	270.15
518	0	11:47:35	1.0431	272.92
527	0	11:48:40	1.0611	275.70
536	0	11:49:45	1.0791	279.40
545	0	11:50:50	1.0971	283.10
554	0	11:51:54	1.1151	285.87
563	0	11:52:59	1.1331	288.65
572	0	11:54: 4	1.1510	290.50
581	0	11:55: 9	1.1690	295.12
590	0	11:56:13	1.1870	296.97
599	0	11:57:18	1.2050	299.75
608	0	11:58:23	1.2230	302.53
617	0	11:59:27	1.2410	304.38
		END SHUTIN 1		
		START FLOW 2		
621	0	11:59:56	1.2490	110.09
626	0	12: 0:32	1.2589	110.09
635	0	12: 1:37	1.2769	105.47
644	0	12: 2:42	1.2949	102.69
653	0	12: 3:46	1.3129	99.92
662	0	12: 4:51	1.3309	98.99
671	0	12: 5:56	1.3489	97.14
680	0	12: 7: 1	1.3669	97.14
689	0	12: 8: 5	1.3849	97.14
698	0	12: 9:10	1.4028	97.14
707	0	12:10:15	1.4208	97.14
716	0	12:11:20	1.4388	97.14
725	0	12:12:24	1.4568	97.14
734	0	12:13:29	1.4748	97.14
743	0	12:14:34	1.4928	97.14
752	0	12:15:39	1.5107	97.14
761	0	12:16:43	1.5287	97.14
770	0	12:17:48	1.5467	97.14
779	0	12:18:53	1.5647	97.14
788	0	12:19:58	1.5827	97.14
797	0	12:21: 2	1.6007	97.14
806	0	12:22: 7	1.6186	97.14
815	0	12:23:12	1.6366	97.14
824	0	12:24:17	1.6546	97.14
833	0	12:25:21	1.6726	97.14
842	0	12:26:26	1.6906	97.14
851	0	12:27:31	1.7086	97.14
860	0	12:28:36	1.7266	97.14
869	0	12:29:40	1.7445	97.14
		END FLOW 2		
		START SHUTIN 2		
874	0	12:30:16	1.7545	97.14
878	0	12:30:45	1.7625	98.99
887	0	12:31:50	1.7805	102.69

WESTERN TESTING CO., INC.

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Well: #1 GNEICH P TWIN  
Field: TKT 22007 DST 1

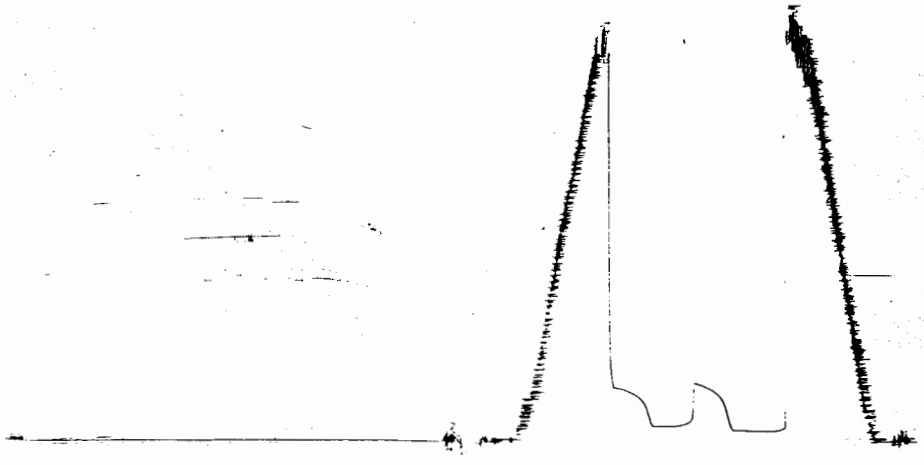
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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
896	0	12:32:55	1.7985	119.34
905	0	12:33:59	1.8165	151.73
914	0	12:35: 4	1.8345	173.93
923	0	12:36: 9	1.8525	192.43
932	0	12:37:14	1.8704	203.53
941	0	12:38:18	1.8884	213.71
950	0	12:39:23	1.9064	222.04
959	0	12:40:28	1.9244	229.44
968	0	12:41:33	1.9424	234.99
977	0	12:42:37	1.9604	239.62
986	0	12:43:42	1.9784	246.09
995	0	12:44:47	1.9963	248.87
1004	0	12:45:52	2.0143	252.57
1013	0	12:46:56	2.0323	255.34
1022	0	12:48: 1	2.0503	259.04
1031	0	12:49: 6	2.0683	261.82
1040	0	12:50:11	2.0863	265.52
1049	0	12:51:15	2.1042	266.44
1058	0	12:52:20	2.1222	268.29
1067	0	12:53:25	2.1402	270.15
1076	0	12:54:30	2.1582	272.00
1085	0	12:55:34	2.1762	273.85
1094	0	12:56:39	2.1942	275.70
1103	0	12:57:44	2.2122	278.47
1112	0	12:58:49	2.2301	279.40
1121	0	12:59:53	2.2481	282.17

WESTERN TESTING CO., INC.

DST #7  
RSC #10330  
INSIDE

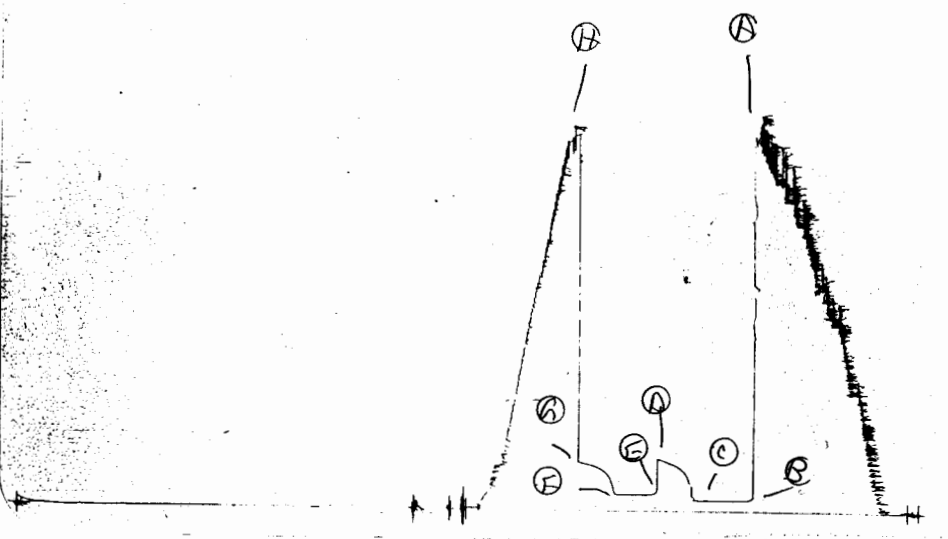
KT 22007  
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Inside Recorder

DST #7  
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INSIDE

KT 22007  
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Outside Recorder