





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Brinker  
216 S. Marshall St  
Glen Elder, Ks 67446  
ATTN: Mark Torr

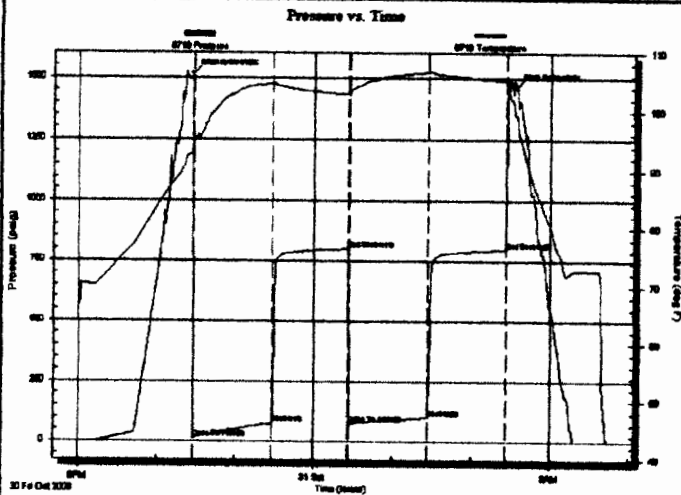
**Gaspar/Rifle #7-1**  
**7-7s-19w/Rooks**  
Job Ticket: 36629      DST#: 2  
Test Start: 2009.10.30 @ 21:00:56

## GENERAL INFORMATION:

Formation: **Oread**  
Deviated: No Whipstock      ft (KB)  
Time Tool Opened: 22:28:11  
Time Test Ended: 03:43:41  
Interval: **3142.00 ft (KB) To 3164.00 ft (KB) (TVD)**  
Total Depth: **3164.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Good**  
Test Type: **Conventional Bottom Hole**  
Tester: **Tyson Flax**  
Unit No: **44**  
Reference Elevations: **2031.00 ft (KB)**  
**2026.00 ft (CF)**  
KB to GRVCF: **5.00 ft**

Serial #: **6719**      Inside  
Press@RunDepth: **98.54 psig @ 3143.00 ft (KB)**      Capacity: **8000.00 psig**  
Start Date: **2009.10.30**      End Date: **2009.10.31**      Last Calib.: **2009.10.31**  
Start Time: **21:00:56**      End Time: **03:43:41**      Time On Btm: **2009.10.30 @ 22:27:28**  
Time Off Btm: **2009.10.31 @ 02:33:56**

TEST COMMENT: FFP-Weak blow built to 6"  
ISI-no blow back  
FFP-Weak blow built to 4.5"  
FSI-no blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1515.36	92.70	Initial Hydro-static
1	12.95	94.35	Open To Flow (1)
61	72.82	104.64	Shut-In (1)
119	799.04	102.95	End Shut-In (1)
120	74.29	102.88	Open To Flow (2)
180	98.54	106.63	Shut-In (2)
240	795.90	105.29	End Shut-In (2)
247	1461.78	99.33	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
180.00	Water	1.42

## Gas Rates

Choke (Inches)	Pressure (psig)	Gas Rate (Mscf/d)



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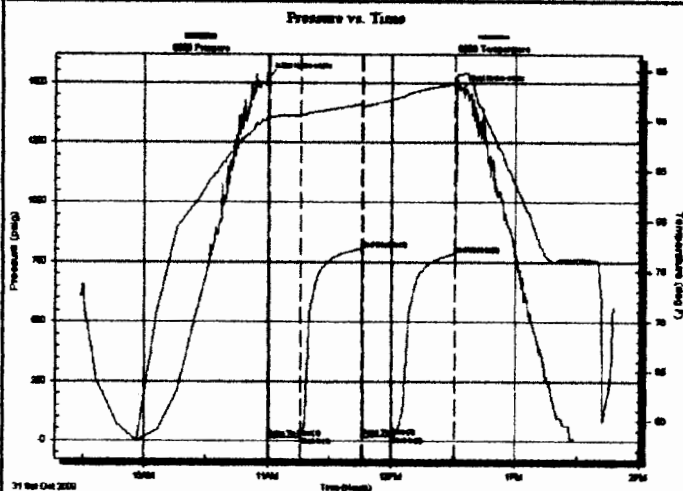
**Gaspar/Riffe #7-1**  
**7-7s-19w/Rooks**  
Job Ticket: 36630      DST#: 3  
Test Start: 2009.10.31 @ 09:29:20

## GENERAL INFORMATION:

Formation: **Topeka**  
 Deviated: **No Whipstock**      ft (KB)  
 Test Type: **Conventional Bottom Hole**  
 Time Tool Opened: **11:00:35**  
 Tester: **Tyson Flax**  
 Time Test Ended: **13:47:35**  
 Unit No: **44**  
 Interval: **3167.00 ft (KB) To 3180.00 ft (KB) (TVD)**  
 Reference Elevations: **2031.00 ft (KB)**  
 Total Depth: **3180.00 ft (KB) (TVD)**  
**2026.00 ft (CF)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Good**  
 KB to GR/CF: **5.00 ft**

**Serial #: 6669**      **Inside**  
 Press@RunDepth: **19.59 psig @ 3168.00 ft (KB)**      Capacity: **8000.00 psig**  
 Start Date: **2009.10.31**      End Date: **2009.10.31**      Last Calib.: **2009.10.31**  
 Start Time: **09:29:20**      End Time: **13:47:35**      Time On Btm: **2009.10.31 @ 11:00:05**  
 Time Off Btm: **2009.10.31 @ 12:33:35**

**TEST COMMENT:** FFP-Weak surface blow bull to 1/2"  
 ISI-no blow back  
 FFP-Weak surface blow throughout  
 FSI-no blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1521.48	90.37	Initial Hydro-static
1	13.41	90.13	Open To Flow (1)
16	15.94	90.52	Shut-In(1)
46	807.62	91.66	End Shut-In(1)
46	17.91	91.38	Open To Flow(2)
60	19.59	92.08	Shut-In(2)
91	785.73	93.69	End Shut-In(2)
94	1474.62	94.60	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	OCM 20%O,80%M	0.02

## Gas Rates

Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)





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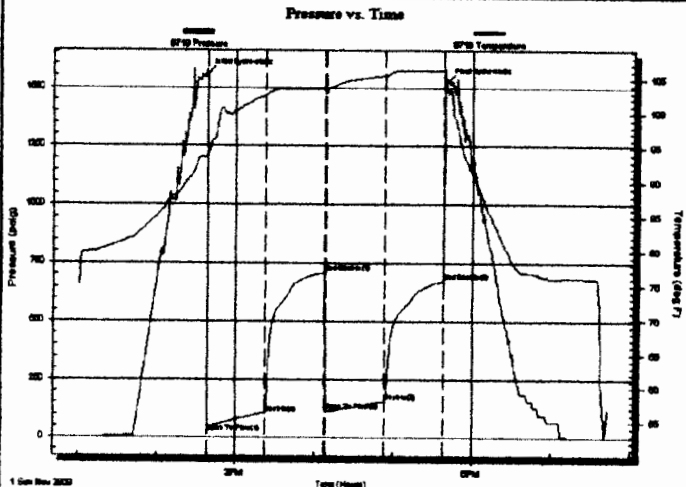
**Gaspar/Riffe #7-1**  
**7-7s-19w/Rooks**  
Job Ticket: 36632      DST#: 6  
Test Start: 2009.11.01 @ 13:00:39

## GENERAL INFORMATION:

Formation: **LKC "A"**  
Deviated: **No Whipstock**      ft (KB)  
Time Tool Opened: **14:38:54**  
Time Test Ended: **19:42:39**  
Interval: **3229.00 ft (KB) To 3260.00 ft (KB) (TVD)**  
Total Depth: **3250.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Good**  
Test Type: **Conventional Bottom Hole**  
Tester: **Tyson Flax**  
Unit No: **44**  
Reference Elevations: **2031.00 ft (KB)**  
**2026.00 ft (CF)**  
KB to GR/CF: **5.00 ft**

**Serial #: 6719**      **Inside**  
Press@RunDepth: **153.78 psig @ 3230.00 ft (KB)**      Capacity: **8000.00 psig**  
Start Date: **2009.11.01**      End Date: **2009.11.01**      Last Calib.: **2009.11.01**  
Start Time: **13:00:39**      End Time: **19:42:39**      Time On Btm: **2009.11.01 @ 14:38:24**  
Time Off Btm: **2009.11.01 @ 17:41:09**

**TEST COMMENT:** FFP-BOB in 7 min  
ISI-Weak blow back built to 2.75' died to 1.5"  
FFP-BOB in 10 min  
FSI-Weak blow back built to 4.5' died to 3.5"



## PRESSURE SUMMARY

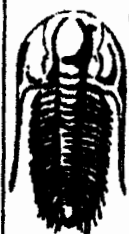
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1558.01	94.11	Initial Hydro-static
1	22.09	94.20	Open To Flow (1)
44	104.18	102.67	Shut-In (1)
80	708.70	103.51	End Shut-In (1)
91	113.24	103.02	Open To Flow (2)
136	153.78	105.48	Shut-In (2)
180	673.07	106.23	End Shut-In (2)
183	1528.20	103.32	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
75.00	MCO 50%O, 50%M	0.37
300.00	GCO 10%G, 90%O	3.82
0.00	525' GIP	0.00

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



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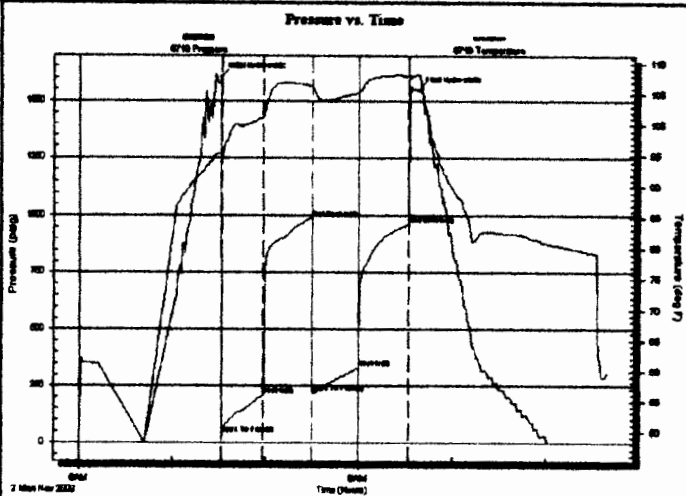
**Gaspar/Rifle #7-1**  
**7-7a-19w/Rocks**  
Job Ticket: 36633      DST#: 6  
Test Start: 2009.11.02 @ 06:00:10

## GENERAL INFORMATION:

Formation: **LKC "C-E"**  
Deviated: **No Whipstock**      ft (KB)  
Time Tool Opened: **07:32:10**  
Time Test Ended: **11:39:55**  
Interval: **3269.00 ft (KB) To 3316.00 ft (KB) (TVD)**  
Total Depth: **3316.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Good**  
Test Type: **Conventional Bottom Hole**  
Tester: **Tyson Flax**  
Unit No: **44**  
Reference Elevations: **2031.00 ft (KB)**  
**2026.00 ft (CF)**  
KB to GRVCF: **5.00 ft**

**Serial #: 6719**      **Inside**  
Press@RunDepth: **330.04 psig @ 3263.00 ft (KB)**      Capacity: **8000.00 psig**  
Start Date: **2009.11.02**      End Date: **2009.11.02**      Last Calib.: **2009.11.02**  
Start Time: **06:00:10**      End Time: **11:39:55**      Time On Btm: **2009.11.02 @ 07:31:25**  
Time Off Btm: **2009.11.02 @ 09:37:40**

**TEST COMMENT:** FP-BOB in 2.5 min  
IS-BOB in 11 min  
FFP-BOB in 3 min  
FSI-BOB in 10 min



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1603.26	95.44	Initial Hydro-static
1	38.51	94.88	Open To Flow (1)
27	209.72	101.06	Shut-in (1)
59	988.00	106.46	End Shut-in (1)
59	221.38	106.22	Open To Flow (2)
89	330.04	105.28	Shut-in (2)
121	960.25	108.07	End Shut-in (2)
127	1547.55	108.14	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	GMO 20%G, 70%O, 10%M	0.59
710.00	GCO 40%G, 60%O	10.05
0.00	730' GP	0.00

## Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mscf/d)



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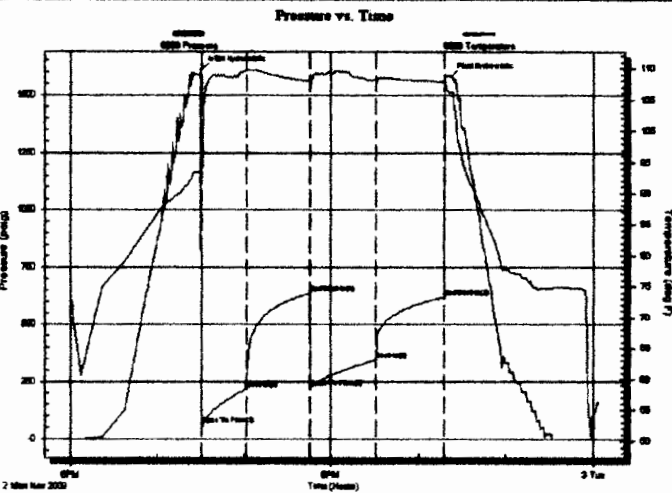
**Gasper/Riffe #7-1**  
**7-7s-19w/Rooks**  
Job Ticket: 36634      DST#: 7  
Test Start: 2009.11.02 @ 18:00:24

### GENERAL INFORMATION:

Formation: **LKC "F-G"**  
Deviated: **No Whipstock**      ft (KB)  
Time Tool Opened: **19:30:54**  
Time Test Ended: **00:03:24**  
  
Interval: **3316.00 ft (KB) To 3338.00 ft (KB) (TVD)**  
Total Depth: **3038.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Good**  
  
Test Type: **Conventional Bottom Hole**  
Tester: **Tyson Flux**  
Unit No: **44**  
  
Reference Elevations: **2031.00 ft (KB)**  
**2026.00 ft (CF)**  
KB to GR/CF: **5.00 ft**

Serial #: **6669**      Inside  
Press@RunDepth: **346.09 psig @ 3317.00 ft (KB)**      Capacity: **8000.00 psig**  
Start Date: **2009.11.02**      End Date: **2009.11.03**      Last Calib.: **2009.11.03**  
Start Time: **18:00:24**      End Time: **00:03:24**      Time On Btmr: **2009.11.02 @ 19:30:24**  
Time Off Btmr: **2009.11.02 @ 22:21:39**

TEST COMMENT: **FP-BOB in 3 min**  
**ISI-Weak surface blow back throughout**  
**FFP-BOB in 10 min**  
**FSI-leak surface blow back built to 1"**



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1608.26	93.47	Initial Hydro-static
1	61.32	92.98	Open To Flow (1)
31	215.95	109.63	Shut-In (1)
75	637.46	107.98	End Shut-In (1)
76	225.98	107.72	Open To Flow (2)
120	346.09	108.09	Shut-In (2)
168	619.68	107.90	End Shut-In (2)
172	1579.29	106.15	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
540.00	Water	6.53
120.00	OCMW 10%O,80%W,30%M	1.70
30.00	CO	0.43
0.00	90' GP	0.00

### Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mscfd)



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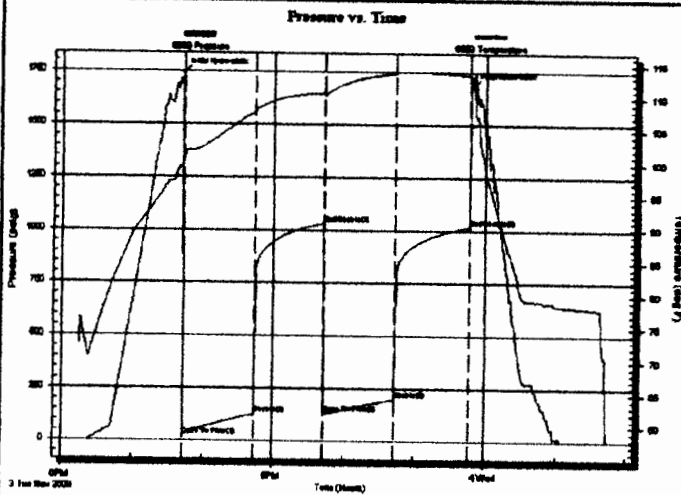
**Gasper/Riffs #7-1**  
**7-7s-19w/Rooks**  
Job Ticket: 36635      DST#: 8  
Test Start: 2009.11.03 @ 18:15:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
Deviated: **No Whipstock**      ft (KB)  
Time Tool Opened: 19:43:45  
Time Test Ended: 01:44:30  
Interval: **3478.00 ft (KB) To 3490.00 ft (KB) (TVD)**  
Total Depth: **3490.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Good**  
Test Type: **Conventional Bottom Hole**  
Tester: **Tyson Flax**  
Unit No: **44**  
Reference Elevations: **2031.00 ft (KB)**  
**2028.00 ft (CF)**  
KB to GR/CF: **5.00 ft**

Serial #: **6669**      Inside  
Press@RunDepth: **199.15 psig @ 3479.00 ft (KB)**      Capacity: **8000.00 psig**  
Start Date: **2009.11.03**      End Date: **2009.11.04**      Last Calib.: **2009.11.04**  
Start Time: **18:15:00**      End Time: **01:44:30**      Time On Btmr: **2009.11.03 @ 19:43:00**  
Time Off Btmr: **2009.11.03 @ 23:49:00**

TEST COMMENT: **FP-BOB in 11 min**  
**ISI-Weak surface blow back throughout**  
**FFP-BOB in 18 min**  
**FSI-Weak surface blow back throughout**



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1740.51	100.68	Initial Hydro-static
1	24.02	100.71	Open To Flow (1)
61	125.77	107.81	Shut-in(1)
120	1033.12	110.67	End Shut-in(1)
121	130.75	110.36	Open To Flow (2)
181	199.15	113.67	Shut-in(2)
244	1018.81	113.47	End Shut-in(2)
248	1683.04	112.24	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	MO 90%O, 10%M	0.15
540.00	CO	6.80
0.00	30'GP	0.00

## Gas Rates

	Chds (inches)	Pressure (psig)	Gas Rate (Mcf/d)