

Scale 1:240 (5"=100') Imperial

Well Name: Fischer #1

Location: Sec. 24 - T09S - R21W, Graham County, KS

Licence Number: API No.: 15-065-23783-0000 Region: Morel

Spud Date: November 5, 2011 Drilling Completed: November 11, 2011

Surface Coordinates: 330' FSL & 680' FWL; 3-D Location

**Bottom Hole Coordinates:** 

Ground Elevation (ft): 2235' K.B. Elevation (ft): 2243'

Logged Interval (ft): 3000' To: 3842' Total Depth (ft): 3840' (LTD)

Formation: Arbuckle

Type of Drilling Fluid: Chemical Gel/Polymer

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

#### **OPERATOR**

Company: Thomason Petroleum, Inc.

Address: 301 W. 13th St.

Suite 403

Hays, KS 67601

#### **GEOLOGIST**

Name: Derek W. Patterson

Company: Valhalla Exploration, LLC

Address: 133 N. Glendale

Wichita, KS 67208

## **REMARKS**

After review of the geologic log, positive DST #2 results, and open hole logs for the Fischer #1, it was decided by operator to run 5 1/2" production casing to further evaluate the multiple Arbuckle zones encountered while drilling said well.

The well samples were saved, submitted, and will be available for review at the Kansas Geologic Survey's Well Sample Library located in Wichita, KS.

Respectfully Submitted,

Derek W. Patterson

### **COMMENTS**

Please Note: The drill time and gas curves have been shifted anywhere from 3'-5' shallow/higher throughout the geolog to correspond to the electric log curves. The DST intervals have collectively been shifted 4' shallow/higher to correspond as well.

The RTD was 3842' and the LTD was 3840'.

# Thomason Petroleum, Inc.

# DAILY DRILLING REPORT

Operator: Thomason Petroleum, Inc.

301 W. 13th St., Suite 403

Hays, KS 67601

Contact: Steven Thomason

Cell: 785.623.1174 Office: 785.625.9045

Geologist: Derek W. Patterson

Cell: 316.655.3550

Office: 316.558.5202

Drilling Contractor: Discovery Drilling Co. - Rig #1

Well: Fischer #1

Location: 330' FSL & 680' FWL

Sec. 24 - T09S - R21W

Graham Co., KS

Elevation: 2235' GL - 2243' KB

Field: Morel

API: 15-065-23783-0000

Surface Casing: 213.66' of 8 5/8" set @ 223' KB

Spud Date: November 5, 2011 Drilling Complete: November 11, 2011

Toolpushe	r: Cliff Mayfield	
DATE	7:00 AM DEPTH	PREVIOUS 24 HOURS OF OPERATIONS
11.9.2011	3728'	Drilling and connections Topeka and Heebner. Geologist Derek W. Patterson on location, 1115 hrs 11.8.11. Drilling and connections Heebner, Toronto, and into Lansing. Test Bloodhound system, rezero gas detector. Resume drilling and connections Lansing, Base Kansas City, and into Marmaton. CFS @ 3728' (Marmaton). Shows and gas kick warrant DST #1. CTCH, short trip (20 stands), CTCH, drop survey, strap out for DST #1, 0300 hrs 11.9.11. TIH with tool. Conducting DST #1.  Made 432' over past 24 hrs of operations.  WOB: 40k RPM: 80 SPM: 60 PP: 750  DMC: \$276.00 CMC: \$7,291.90
11.10.2011	3776'	Conducting DST #1, test successful. TIH with bit, CTCH, resume drilling following DST #1, 1245 hrs 11.9.11. Drilling and connections Marmaton and into Basal Penn Conglomerate. CFS @ 3752', CFS @ 3761', CFS @ 3766' (Arb), CFS @ 3769' (Arb). Decision made to run DST #2. CTCH, TOH for DST #2, 1830 hrs 11.9.11. TIH with tool. Conducting DST #2, test successful. TIH with bit, CTCH, resume drilling following DST #2, 0540 hrs 11.10.11. CFS @ 3776' (Arb). Made 48' over past 24 hrs of operations.  WOB: 40k RPM: 80 SPM: 60 PP: 800  DCM: \$1,340.60 CMC: \$8,632.50
11.11.2011	3783'	Decision made to run DST #3. CTCH, TOH for DST #3, 0710 hrs 11.10.11. TIH with tool. Conductin DST #3, test successful. TIH with bit, CTCH, resume drilling following DST #3, 1905 hrs 11.10.11. CFS @ 3783'. Decision made to run DST #4. CTCH, TOH for DST #4, 2030 hrs 11.10.11. TIH with tool. Conducting DST #4, test successful. TIH with bit.  Made 7' over past 24 hrs of operations.  WOB: 40k RPM: 80 SPM: 60 PP: 800
11.12.2011	RTD - 3842' LTD - 3840'	Resume drilling following DST #4, 0700 hrs 11.11.11. Drilling and connections Arbuckle ahead to RTD of 3842'. RTD reached, 0930 hrs 11.11.11. CTCH, drop survey, TOH for open hole logging operations, 1115 hrs 11.11.11. Commence open hole logging operations, 1300 hrs 11.11.11. Open hole logging operations complete, 1800 hrs 11.11.11. Orders received to run 5 1/2" production casing to further evaluate the Arbuckle.  Geologist Derek W. Patterson off location, 1835 hrs 11.11.11.  Made 55' over past 24 hrs of operations.  WOB: 40k RPM: 80 SPM: 60 PP: 800

# Thomason Petroleum, Inc.

# WELL COMPARISON SHEET

		DRILLIN	G WELL			COMPAR	ISON WEL	L		COMPARI	SON WEL	L		COMPAR	SON WEL	L
	Thoma	son Petro	leum - Fis	cher#1	Britisl	h American	- Flora B	arry #1		Murfin - H	linman #5		Ho	llow Drilling	g - Fesler '	A' #1
		Sec. 24 - TO	95 - R21	W		Sec. 24 - T	09S - R21V	V		Sec. 23 - T	09S - R21V	v		Sec. 25 - T	09S - R21V	v
		330' FSL 8	680' FWI	.		NW S	W SW			660' FSL8	330' FEL			NW N	W NW	
	1			- 1	Oil	- Arb	Struc	tural	Oil - M	arm/Arb	Struc	tural	Oil	- Arb	Struc	tural
	2243	KB	1		2253	KB	Relati	onship	2276	KB	Relation	onship	2244	KB	Relation	onship
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Topeka	3203	-960	3200	-957	3211	-958	-2	1	3237	-961	1	4	3207	-963	3	6
Heebner	3411	-1168	3408	-1165	3418	-1165	-3	0	3443	-1167	-1	2	3412	-1168	0	3
Toronto	3436	-1193	3430	-1187	3440	-1187	-6	0	3465	-1189	4	2	3441	-1197	4	10
Lansing	3451	-1208	3447	-1204	3458	-1205	-3	1	3482	-1206	-2	2	3454	-1210	2	6
LKC 'G'	3548	-1305	3541	-1298	3550	-1297	-8	-1	3576	-1300	-5	2	3548	-1304	-1	6
Muncie Creek	3572	-1329	3569	-1326	3575	-1322	-7	-4	3602	-1326	-3	0	3573	-1329	0	3
LKC 'H'	3585	-1342	3580	-1337	3589	-1336	-6	-1	3614	-1338	4	1	3588	-1344	2	7
Stark	3634	-1391	3629	-1386	3639	-1386	-5	0	3666	-1390	-1	4	3636	-1392	1	6
LKC 'K'	3641	-1398	3638	-1395	3647	-1394	-4	-1	3672	-1396	-2	1	3644	-1400	2	5
Hushpuckney	3660	-1417	3655	-1412	3663	-1410	-7	-2	3688	-1412	-5	0	3659	-1415	-2	3
Base Kansas City	3672	-1429	3668	-1425	3676	-1423	-6	-2	3700	-1424	-5	-1	3675	-1431	2	6
Marmaton	3705	-1462	3700	-1457	3711	-1458	-4	1	3735	-1459	-3	2	3708	-1464	2	7
Arbuckle	3767	-1524	3762	-1519	3771	-1518	-6	-1	3801	-1525	1	6	3762	-1518	-6	-1
Total Depth	3842	-1599	3840	-1597	3776	-1523	-76	-74	3900	-1624	25	27	3768	-1524	-75	-73

Please Note: DST intervals need to be shifted 4' shallow/higher to correspond to the electric log curves.

# BIT RECORD

Bit#	Size	Make	Туре	Serial Number	Depth In	Depth Out	Feet	Hours
1	12 1/4"	JZ	WA417	12821	0,	223'	223'	2.25
2	7 7/8"	HTC	GX20C	5195955	223'	3842'	3619'	59.25

# SURFACE CASING RECORD

11.05.2011 Ran 5 joints of new 23#/ft 8 5/8" casing, tallying 213.56', set @ 223' KB. Cemented with 150 sacks common, 3% calcium chloride, 2% gel. Cement did circulate to surface. Plug down @ 0215 hrs 11.06.11.

# PRODUCTION CASING RECORD

11.12.2011 Ran 95 joints of new 14#/ft 5 1/2" production casing, set @ 3824' KB. Cemented with 550 sacks QMDC and flo-seal. Cement did circulate to surface. Plug down @ 0500 hrs 11.12.11.

# **DEVIATION SURVEY RECORD**

Depth	Survey
223'	3/4°
3732'	1°
3842'	1°

# PIPE STRAP RECORD

 Depth
 Pipe Strap

 3672'
 0.58' Short to Board



Thomason Petroleum, Inc.

2717 Canal Blvd. PO Box 875

Hays, KS 67601 ATTN: Derek Patterson 24/9s/21w Graham KS

Fischer #1

Job Ticket: 45528 DST#:1

Test Start: 2011.11.09 @ 04:58:00

#### GENERAL INFORMATION:

Formation: Marmaton

Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)

Time Tool Opened: 06:43:00 Tester: James Winder 57

Unit No: Time Test Ended: 10:28:30

Interval: 3668.00 ft (KB) To 3732.00 ft (KB) (TVD) Reference Bevations: 2243.00 ft (KB)

Total Depth: 3732.00 ft (KB) (TVD) 2235.00 ft (OF)

Hole Diameter: 7.88 inchesHole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8366 Inside

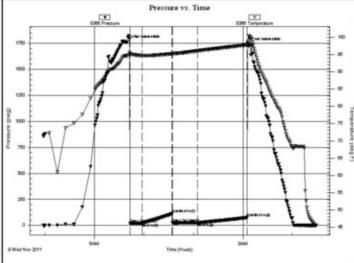
24.98 psig @ Press@RunDepth: 3669.00 ft (KB) Capacity: 8000.00 psig

2011.11.09 2011.11.09 Last Calib .: Start Date: End Date: 2011.11.09 Start Time: 04:58:05 End Time: 10:28:29 Time On Btm: 2011.11.09 @ 06:39:30

Time Off Btm: 2011.11.09 @ 09:06:30

TEST COMMENT: 15 - F: 1/4" blow at open, built to 1"

37 - ISI: No blow back 30 - FF: No blow 60 - FSI: No blow back



Time	Pressure	Temp	Annotation	
(Min.)	(psig)	(deg F)		
0	1757.18	94.68	Initial Hydro-static	
4	19.99	95.03	Open To Flow (1)	
18	22.24	94.74	Shut-In(1)	
55	113.73	95.24	End Shut-In(1)	
55	23.65	95.20	Open To Flow (2)	
85	24.98	96.10	Shut-In(2)	
146	75.89	97.81	End Shut-In(2)	
147	1733.93	100.46	Final Hydro-static	
			2	

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	SOCM 99%m, 1%o	0.05
		1

Gas Ra	tes		
Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)	1

Trilobite Testing, Inc. Ref. No: 45528 Printed: 2011.11.09 @ 11:01:28



Thomason Petroleum, Inc.

2717 Canal Blvd. PO Box 875 Hays, KS 67601 ATTN: Derek Patterson 24/9s/21w Graham KS

Fischer #1

Job Ticket: 45529

Test Start: 2011.11.09 @ 19:50:00

DST#:2

#### GENERAL INFORMATION:

Formation: Arbuckle

Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)

Time Tool Opened: 21:23:30 Tester: James Winder

Time Test Ended: 02:38:30 Unit No:

Interval: 3736.00 ft (KB) To 3773.00 ft (KB) (TVD) Reference Elevations: 2243.00 ft (KB)

Total Depth: 3773.00 ft (KB) (TVD) 2235.00 ft (CF)

Hole Diameter: 7.88 inchesHole Condition: Fair KB to GR/OF: 8.00 ft

Serial #: 8366 Inside

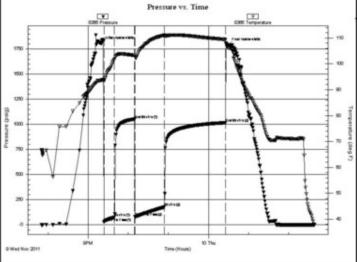
Press@RunDepth: 177.18 psig @ 3737.00 ft (KB) Capacity: 8000.00 psig Start Date: 2011.11.09 End Date: 2011.11.10 Last Calib.: 2011.11.10 Start Time: 19:50:05 End Time: 02:38:29 Time On Btm: 2011.11.09 @ 21:20:00

Time Off Btm: 2011.11.10 @ 00:29:30

TEST COMMENT: 15 - F: Blow built to BOB (11") in 11 1/4 min.

30 - ISI: Blow back built to 1 1/2" 45 - FF: Blow built to BOB in 11 1/2 min.

90 - FSI: Blow back built to 4"



	PI	RESSUR	RESUMMARY	
Time	Pressure	Temp	Annotation	
(Min.)	(psig)	(deg F)		
0	1805.25	93.73	Initial Hydro-static	
4	26.77	93.27	Open To Flow (1)	
19	74.50	101.61	Shut-In(1)	
50	1053.26	103.24	End Shut-In(1)	
50	80.52	102.75	Open To Flow (2)	
94	177.18	111.03	Shut-In(2)	
186	1016.50	109.44	End Shut-In(2)	
190	1790.29	106.23	Final Hydro-static	
			4	

## Recovery

Length (ft)	Description	Volume (bbl)
110.00	GMO 51%o, 39%m, 10%g	1.27
300.00	OGO 81%o, 15%g, 4%m	4.21
0.00	GIP = 220'	0.00
Recovery from r	multiple tests	

Gas	Ra	tes

1	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
-	Crione (inches)	Pressure (psig)	Gas Rate (mcsu)

Trilobite Testing, Inc.

Ref. No: 45529

Printed: 2011.11.10 @ 03:31:11



Thomason Petroleum, Inc.

2717 Canal Blvd. PO Box 875 Hays, KS 67601 ATTN: Derek Patterson 24/9s/21w Graham KS

Fischer #1

Job Ticket: 45530 DST#:3

Test Start: 2011.11.10 @ 08:20:00

#### GENERAL INFORMATION:

Formation: Arbuckle

Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)

Time Tool Opened: 09:54:30 Tester: James Winder

Time Test Ended: 15:53:30 Unit No: 57

Interval: 3773.00 ft (KB) To 3780.00 ft (KB) (TVD) Reference Elevations: 2243.00 ft (KB)

Total Depth: 3780.00 ft (KB) (TVD) 2235.00 ft (CF)

Hole Diameter: 7.88 inchesHole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8366 Inside

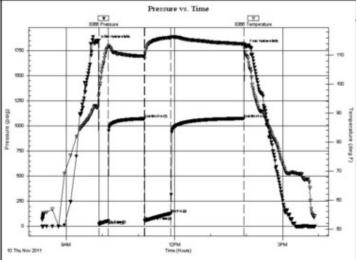
129.97 psig @ 3774.00 ft (KB) Press@RunDepth: Capacity: 8000.00 psig 2011.11.10 2011.11.10 Start Date: End Date: Last Calib .: 2011.11.10 Start Time: 08:20:05 End Time: 15:53:29 Time On Btm: 2011.11.10 @ 09:52:00

Time Off Btm: 2011.11.10 @ 13:59:30

TEST COMMENT: 15 - F: Blow built to 7"

60 - ISI: A few bubbles at 10 min., then on/off blow backfrom 30 min. till end of close

45 - FF: Blow built to BOB (11") in 25 min. 120 FSI: Blow back started at 10 min., built to 1"



Time	Pressure	Temp	Annotation	
(Min.)	(psig)	(deg F)		
0	1832.66	91.85	Initial Hydro-static	
3	20.18	96.57	Open To Flow (1)	
18	53.66	112.72	Shut-In(1)	
78	1072.80	109.62	End Shut-In(1)	
79	56.11	108.84	Open To Flow (2)	
122	129.97	116.07	Shut-In(2)	
244	1074.43	113.82	End Shut-In(2)	
248	1788.81	109.69	Final Hydro-static	
			81	

## Recovery

Length (ft)	Description	Volume (bbl)
245.00	SOMOW 94%w, 5%m, 1%o	3.16
5.00	∞94%o, 6%m	0.07
7		

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

Trilobite Testing, Inc Ref. No: 45530 Printed: 2011.11.10 @ 17:06:59



Thomason Petroleum, Inc.

2717 Canal Blvd. PO Box 875 Hays, KS 67601 ATTN: Derek Patterson 24/9s/21w Graham KS

Fischer #1

Job Ticket: 45531 **DST#:4**Test Start: 2011.11.10 @ 21:53:00

## GENERAL INFORMATION:

Formation: Arbuckle

Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)

 Time Tool Opened: 23:38:30
 Tester:
 James Winder

 Time Test Ended: 05:12:00
 Unit No: 57

Interval: 3780.00 ft (KB) To 3787.00 ft (KB) (TVD) Reference Elevations: 2243.00 ft (KB)

Total Depth: 3787.00 ft (KB) (TVD) 2235.00 ft (CF)

Hole Diameter: 7.88 inchesHole Condition: Fair KB to GR/OF: 8.00 ft

Serial #: 8366 Inside

Press@RunDepth: 1139.76 psig @ 3781.00 ft (KB) Capacity: 8000.00 psig

 Start Date:
 2011.11.10
 End Date:
 2011.11.11
 Last Calib.:
 2011.11.11

 Start Time:
 21:53:05
 End Time:
 05:11:59
 Time On Btm:
 2011.11.10 @ 23:35:30

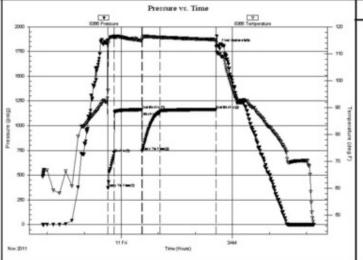
Time Off Btm: 2011.11.11 @ 02:37:30

TEST COMMENT: 10 - F: Blow built to BOB (11") in 40 sec

45 - ISI: Surface blow back at very end of shut in

30 - FF: Blow built to BOB in 40 sec

90 - FSI: No blow back



	PRESSURE SUMMARY			
1	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	1829.71	91.97	Initial Hydro-static
	3	370.70	96.32	Open To Flow (1)
	13	725.49	116.43	Shut-ln(1)
4	58	1161.97	114.85	End Shut-In(1)
9000	59	743.99	115.37	Open To Flow (2)
ature	88	1139.76	116.08	Shut-ln(2)
(dea F)	178	1163.47	115.27	End Shut-In(2)
3	182	1805.00	109.98	Final Hydro-static

#### Recovery

Length (ft)	Description	Volume (bbl)	
2165.00	Water w /trace of oil 100%w	30.10	
350.00	SO/MOW 87%w, 10%m, 3%o	4.91	
25.00	SO/MW 56%w, 40%m, 4%o	0.35	
		$\neg$	
Permeru from r	multiple tests		

Ga	is Ra	tes	

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

Trilobite Testing, Inc Ref. No: 45531 Printed: 2011.11.11 @ 05:38:16

