

NOTES

Company: Grady Bolding Corporation

Lease: Grizzell #27

Field:Bloomer

Location: NW-SW-SE-NE (1996' FNL& 1131' FEL)

Sec:31

Twsp:<u>17S</u>

Rge:<u>10W</u>

County: Ellsworth

State: Kansas

KB:1798' GL:1788'

API #: 15-053-21308-00-00

Contractor: Southwind Drilling Inc. (Rig #1)

Spud:03/29/2014

Comp:04/03/2014

RTD:3312'

LTD:3310'

Mud Up: 2700'

Type Mud: Chemical

Samples Saved From: <u>2700' to RTD</u>
Drilling Time Kept From: <u>2700' to RTD</u>
Samples Examined From: <u>2700' to RTD</u>
Geological Supervision from: <u>2700' to RTD</u>

Geologist on Well: Wyatt Urban

Surface Casing: <u>8 5/8@ 312'</u>

Electronic Surveys: Logged by Nabors Completion Services CDL/CNL, MEL, DIL

Grady Bolding Corporation Well Comparison

	DRILLING WELL				COMPARIS	ON WELL		COMPARISON WELL				
	Grady Bolding Corp-Grizzell				Grady Bolding Corp- #24 Grizzell			Gulf Oil Corp- #15-31 Grizzell				
		NW-SW-SE-	NE		C-W/2-SW-NE			SW-NE-SW-NE				
	31-17s-10W			31-17S-1 <u>0</u> W			23-32s-37W					
		_			Structural					Structural		
	1798	KB			1803 KB Relationship		1807 KB		Relationship			
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Heebner	2834	-1036	2836	-1038	2840	-1037	-1	-1	2847	-1040	4	2
Toronto	2848	-1050	2853	-1055	2859	-1056	-6	1	2864	-1057	7	2
Douglas	2860	-1062	2864	-1066	2866	-1063	1	-3				
Brown Lime	2945	-1147	2948	-1150	2955	-1152	5	2				
Lansing	2961	-1163	2964	-1166	2970	-1167	4	1	2976	-1169	6	3
BKC	3228	-1430	3230	-1432	3235	-1432	2	0	3240	-1433	3	1
Arbuckle	3245	-1447	3249	-1451	3242	-1439	-8	-12	3246	-1439	-8	-12
RTD	3312	-1514	3312	-1514	3248	-1445	-69	-69	3350	-1543	29	29
LTD	3310	-1512	3310	-1512								



DRILL STEM TEST REPORT

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INC

114 N Main St Ellinw ood KS 67526

ATTN: Wyatt Urban

Grizzell #27

Job Ticket: 57552 DST#:1

Test Start: 2014.03.31 @ 13:15:04

31-1/s-10W- Elisworth Co.

GENERAL INFORMATION:

Formation: Lans. A-F

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

 Time Tool Opened:
 17:03:04
 Tester:
 Tate Lang

 Time Test Ended:
 20:52:04
 Unit No:
 49

Interval: 2952.00 ft (KB) To 3050.00 ft (KB) (TVD) Reference Elevations: 1798.00 ft (KB)

Total Depth: 3050.00 ft (KB) (TVD) 1788.00 ft (CF)

Hole Diameter: 7.88 inchesHole Condition: Good KB to GR/CF: 10.00 ft

Serial #: 8898 Outside

 Press@RunDepth:
 173.43 psig
 @
 2953.00 ft (KB)
 Capacity:
 8000.00 psig

 Start Date:
 2014.03.31
 End Date:
 2014.03.31
 Last Calib.:
 2014.03.31

Time Off Btm: 2014.03.31 @ 18:34:13

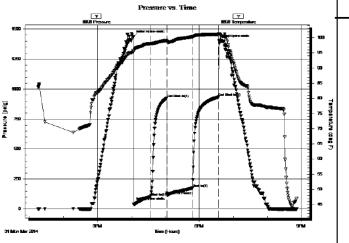
PRESSURE SUMMARY

TEST COMMENT: B.O.B. in 2 mins

Fair blow back built to 4 in died back to 3 in

B.O.B. in 2 mins

Weak blow back built to 3 in



Time	Pressure	Temp	Annotation			
(Min.)	(psig)	(deg F)				
0	1434.93	95.63	Initial Hydro-static			
1	40.10	95.26	Initial Hydro-static			
31	102.34	98.02	Shut-In(1)			
60	923.11	99.09	End Shut-In(1)			
60	115.35	98.72	Open To Flow (1)			
105	173.43	100.31	Shut-ln(2)			
151	933.33	101.11	End Shut-In(2)			
151	1399.82	101.32	Final Hydro-static			
	(Min.) 0 1 31 60 60 105	(Min.) (psig) 0 1434.93 1 40.10 31 102.34 60 923.11 60 115.35 105 173.43 151 933.33	(Min.) (psig) (deg F) 0 1434.93 95.63 1 40.10 95.26 31 102.34 98.02 60 923.11 99.09 60 115.35 98.72 105 173.43 100.31 151 933.33 101.11			

Recovery

Length (ft)	Description	Volume (bbl)
120.00	50%G 40%O 5%W 5%M	1.68
180.00	50%G 10%O 40%M	2.52
60.00	5%G 5%O 90%M	0.84
0.00	1080 GIP	0.00

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

Grady Bolding Corporation

31-17s-10w-Ellsworth Co.

114 N Main St Ellinw ood KS 67526 Grizzell #27

Job Ticket: 57553

DST#:2

ATTN: Wyatt Urban Test Start: 2014.04.01 @ 15:03:14

GENERAL INFORMATION:

Formation: Arbuckle

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

Time Tool Opened: 17:12:44
Time Test Ended: 21:53:14

Interval: 3190.00 ft (KB) To 3235.00 ft (KB) (TVD)

Tester: Tate Lang
Unit No: 49

Reference Elevations: 1798.00 ft (KB)

Total Depth: 3235.00 ft (KB) (TVD) 1788.00 ft (CF) Hole Diameter: 7.88 inchesHole Condition: Good KB to GR/CF: 10.00 ft

Serial #: 8898 Outside

Press@RunDepth: 36.40 psig @ 3191.00 ft (KB) Capacity: 8000.00 psig Start Date: 2014.04.01 End Date: 2014.04.01 Last Calib.: 2014.04.01 Start Time: 15:03:15 End Time: 21:53:14 Time On Btm: 2014.04.01 @ 17:12:24 Time Off Btm: 2014.04.01 @ 20:14:34

TEST COMMENT: Fair blow built to 6 in Dead no blow back

Weak surface blow built to 1 3/4 in

Dead no blow back

Т	Pressure vs. Time		PRESSURE SUMMARY				
	F	Y	- 1016	Time	Pressure	Temp	Annotation
Ι,	500	J	- 100	(Min.)	(psig)	(deg F)	
1			- 95	0	1571.61	96.89	Initial Hydro-static
Ι,	230			1	26.53	96.50	Open To Flow (1)
	-		- 90	30	33.16	97.38	Shut-ln(1)
	<u> </u>		-as	77	72.89	99.24	End Shut-In(1)
Preseure (pelg)	ŀ	/	. m = 1	77	29.35	99.25	Open To Flow (2)
5	750		- 75 2	121	36.40	100.63	Shut-ln(2)
Æ	Ė	「	- 70 G	182	69.47	102.06	End Shut-In(2)
	300 <u>-</u>		-es ²³	183	1580.28	102.52	Final Hydro-static
	E		- 00				
	20	 	- 95				
	E		- 20				
	•		- 46				
116	с.Арт 2014	The (Fac)					
		Recovery				Ga	s Rates

Recovery					
Length (ft)	Description	Volume (bbl)			
40.00	10%G 10%O 80%M	0.56			
0.00	20 GIP	0.00			
* Recovery from multiple tests					

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



DRILL STEM TEST REPORT

Grady Bolding Corporation

31-17s-10w- Ellsworth Co.

114 N Main St

Grizzell #27

Elinw ood KS 67526

Job Ticket: 57554 DST#: 3

ATTN: Wyatt Urban

Test Start: 2014.04.02 @ 06:10:46

GENERAL INFORMATION:

Formation: Arbuckle

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

Time Tool Opened: 08:04:56 Tester: Tate Lang Time Test Ended: 12:17:36 Unit No: 49

Interval: 3190.00 ft (KB) To 3252.00 ft (KB) (TVD) Reference Elevations: 1798.00 ft (KB) Total Depth: 3247.00 ft (KB) (TVD) 1788.00 ft (CF)

KB to GR/CF: 10.00 ft Hole Diameter: 7.88 inches Hole Condition: Good

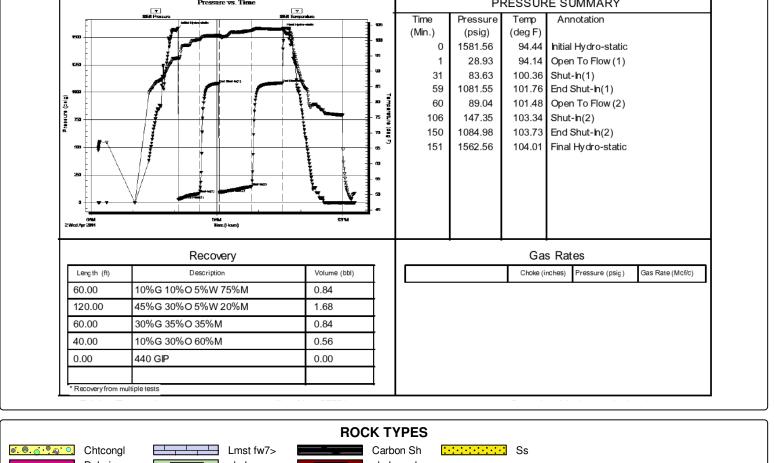
Serial #: 8898 Outside

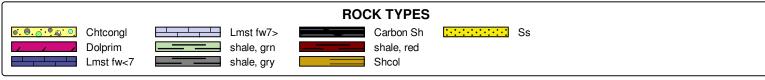
Press@RunDepth: 147.35 psig @ 3196.00 ft (KB) Capacity: 8000.00 psig Start Date: 2014.04.02 End Date: 2014.04.02 Last Calib.: 2014.04.02 Start Time: 06:10:47 End Time: 12:17:36 Time On Btm: 2014.04.02 @ 08:04:36 Time Off Btm: 2014.04.02 @ 10:35:25

TEST COMMENT: B.O.B. In 12 mins

Weak surface blow back B.O.B. In 11 mins

Weak surface blow built to 2 in





ACCESSORIES

MINERAL FOSSIL STRINGER TEXTURE ♦ Oolite Dolomite C Chalky Sandy FX FinexIn Oomoldic

DST

DST Int

DST alt

II tail pipe

Core

OTHER SYMBOLS

Oil Show

- Good Show
- Fair Show
- Poor Show
- O Spotted or Trace
- O Questionable Stn
- D Dead Oil Stn
- Fluorescence
- * Gas

