



WHITEHALL EXPLORATION

WELLSITE GEOLOGICAL CONSULTING

GEOLOGICAL ANALYSIS & WELL REPORT

H & M Petroleum Corporation

BETTY THUNDER No. 3

2,310' FSL & 2,310' FEL
C-NW-NW-SE

Section 30-Township 9 South-Range 24 West
Graham County, Kansas

December 6, 2010

RECEIVED
KANSAS CORPORATION COMMISSION

JAN 26 2011

CONSERVATION DIVISION
WICHITA, KS

GENERAL INFORMATION

Elevation: G.L. 2,569' K.B. 2,574'
All measurements are from K.B.

Field: Dreil

Drilling Contractor/Rig No.: WW Drilling/Rig 6

Total Depth: RTD: 4,190' LTD: 4,186'

Surface Casing: 8 5/8" set @ 233'

Production Casing: None

Drill Time Kept: 3,600'-4,190' RTD

Samples Examined: 3,630'-4,190' RTD

Geological Supervision: 3,600'-4,190' RTD

Wellsite Geologist: Randy Say
Consulting Wellsite Geologist - Arvada, CO

Drill Stem Tests: 1) Lansing "A"- "C" Zone's - Open hole test
2) Lansing "D" Zone - Open hole test
3) Lansing "F" Zone - Open hole test
4) Kansas City "H"- "J" Zone's - Open hole test
5) Kansas City "K"- "L" Zone's - Open hole test

Mud Company/Mud Type/Engineer: Morgan Mud/Chemical/Dave Lines

Electric Logging Company: Log-Tech

Log Suite Run: -Dual Induction
-Neutron/Density Porosity

Samples: Not Kept

Total Depth Formation: Base/Kansas City

Well Status: Plugged & Abandoned

RECEIVED
KANSAS CORPORATION COMMISSION

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WICHITA, KS

DAILY DRILLING CHRONOLOGY

<u>2010 Date</u>	<u>7:00 A.M. Depth</u>	<u>24 Hour Footage</u>	<u>7:00 A.M. Operation; 24 Hour Activity</u>
11/22/10	0	0	MIRU; spud @ 3:15 P.M., drilling to 234', circ., dev. survey, TOOH, run 5 jts of 8 5/8" surf. csg set @ 233', cement csg. w/165 sx-plug down @ 7:15 P.M., WOC 8', drill out cement plug, drilling.
11/23/10	690'	690'	Drilling ahead; jet, drilling, jet, drilling, jet, drilling, jet, drilling, jet, drilling.
11/24/10	2,554'	1,864'	Drilling ahead; jet, drilling, displace hole/mud up @ 2,973' (660 bbls), drilling.
11/25/10	3,315'	761'	Drilling ahead; drilling.
11/26/10	3,770'	455'	Drilling ahead; CFS @ 3,877', drilling, CFS @ 3,942', short trip 28 stands (2.5 hrs), short trip 45 stands (3.5 hrs), circ. 60", drop dev. survey, TOOH strapping pipe (2.77' long), pick up test tool, TIH, run DST No. 1.
11/27/10	3,942'	172'	Running DST No. 1; TOOH, lay down test tool, TIH w/bit, circ. 60", drilling, CFS @ 3,954', TOOH, pick up test tool, TIH, run DST No. 2, TOOH, lay down test tool, TIH w/bit, drilling, CFS @ 3,997', TOOH, pick up test tool, TIH, run DST No. 3.
11/28/10	3,997'	55'	Running DST No. 3; TOOH, lay down test tool, TIH w/bit, drilling, CFS @ 4, , drilling, CFS @ 4,094', TOOH, pick up test tool, TIH, run DST No. 4.
11/29/10	4,094'	97'	Running DST No. 4; TOOH, lay down test tool, TIH w/bit, drilling, CFS @ 4,1 , drilling, CFS @ 4,134', TOOH, pick up test tool, TIH, run DST No. 5, TOOH, lay down test tool, TIH w/bit, drilling.
11/30/10	4,185'	91'	Drilling ahead; reach 4,190' RTD, circ. 1', drop dev survey, TOOH for logs, rig up and run Log-Tech logs (3.5 hrs)-hit bridge on 2 nd (microlog) log run-terminate logging, rig down loggers, TIH, TOOH laying down drill pipe & plug hole, set cement plugs @ 2,250', 1,390' and 285', plug rat hole - plug

down @11:30 P.M. by Consolidated, rig released @
1:30 AM 12/1/10.

12/01/10 4,190' 5' Done.

DEVIATION SURVEYS

<u>Depth</u>	<u>Deviation (Degrees)</u>
234'	0.5
3,942'	1.5
4,190'	1.0

REFERENCE WELLS

Reference Well "A": Dreiling Oil
Beiker No. 1
SE-SW-SE
Section 30-T9S-R24W
Graham County, Kansas
KB: 2,257'
LTD: 4,126'
Date Drilled: May, 1971
TD Formation: Base/Kansas City
Status: Plugged & Abandoned Kansas City "I" & "K" Zone's oil well

Reference Well "B": H & M Petroleum Corp.
Betty Thunder No. 2
NE-NE-SE
Section 30-T9S-R24W
Graham County, Kansas
KB: 2,569'
LTD: 4,185'
Date Drilled: October, 2010
TD Formation: Base/Kansas
Status: Production casing set, waiting on LKC Group completion

Reference Well "C": Murfin Drilling Co.
Engelbert No. 1
NW-NW-NE
Section 30-T9S-R24W
Graham County, Kansas
KB: 2,571'
RTD: 4,150'
Date Drilled: August, 1957
TD Formation: Base/Kansas City
Status: Dry & Abandoned

FORMATION TOPS

	BETTY THUNDER No. 3			Beiker No. 1	Betty Thunder No. 2	Engelbert No. 1			
FORMATION	SAMPLE	LOG		REFERENCE	REFERENCE	REFERENCE	DIFFERENCE TO		
	TOPS	TOPS	DATUM	WELL "A"	WELL "B"	WELL "C"	WELL "A"	WELL "B"	WELL "C"
PERMIAN									
Stone Corral Anhydrite	2230	2228	+346	+335	+334	+350	+11	+12	-4
PENNSYLVANIAN									
Topeka	3649	3647	-1073	-1069	-1079	NA	-4	+6	NA
Heebner Shale	3866	3864	-1290	-1287	-1298	-1296	-3	+8	+6
Lansing "A"	3902	3898	-1324	-1324	-1334	-1340	Flat	+10	+16
Lansing "D"	3943	3941	-1367	-1365	-1373	-1379	-2	+6	+12
Lansing "F"	3988	3986	-1412	-1407	-1419	-1420	-5	+7	+8
Muncie Creek Shale	4033	4030	-1456	-1447	-1460	-1461	-9	+4	+5
Kansas City "J"	4083	4082	-1508	-1505	-1515	-1519	-3	+7	+11
Base/Kansas City	4135	4133	-1559	-1552	-1567	-1565	-7	+8	+6

ZONES OF INTEREST

<u>Formation</u>	<u>Log Depth</u>	<u>Lithologic & Show Descriptions, Remarks</u>
Lansing "D"	3,941'-3,945'	<p>Limestone, white-tan, granular-fine crystalline, friable-firm, mostly fossiliferous, oolitic development with chalky and calcite matrix, slightly cherty, poor to good inter-oolitic matrix porosity and inter-crystalline porosity, INTERMEDIATE SHOW: slight oil odor, bright yellow fluorescence, near saturated oil stain, light brown show live oil, immediate streaming live cut, tan dried residual fluorescence.</p> <p>The Lansing "D" Zone was isolated on DST No. 2 and on a 45 minute total flow period recovered 147 feet of gas in pipe, 5 feet of oil, 31 feet of muddy water with oil spots (15% mud, 85% water), with flow pressures of 42-113 and 132-212 p.s.i. and shut in pressures of 675-670 p.s.i.</p> <p>Log-Tech logs show this zone has a very clean gamma ray signature, good SP development, maximum 12+% neutron porosity, maximum 10% density porosity, and has a wet signature with 9-25 ohms deep resistivity over this interval.</p>
Kansas City "J"	4,082'-4,086'	<p>Limestone, tan/brown-light gray, mottled, very fine crystalline, friable-firm, very fossiliferous, some oolitic development with calcite matrix infilling, abundant chalk matrix, poor-fair inter-crystalline porosity, INTERMEDIATE SHOW: slight oil odor, medium yellow fluorescence, saturated brown oil stain, light tan show free oil/break, medium bright yellow immediate streaming live cut, tan dried residual ring fluorescence.</p> <p>This zone was included on DST No. 4 which tested the Kansas City "H"- "J" Zone's and on a 75 minute flow period recovered 157 feet of gas in pipe, 62 feet of slightly oil cut gassy mud (5% gas, 5% oil, 90% mud), and 62 feet of very slightly oil cut mud (2% oil, 98% mud), with flow pressures of 57-72 and 81-88 p.s.i. and shut in pressures of 782-1,217 p.s.i.</p> <p>Log-Tech logs show this zone has a very clean gamma ray signature, intermediate SP development,</p>

maximum 15% neutron and density shoulder porosity, and has a wet signature with a maximum 14 ohms deep resistivity.

Kansas City "K" 4,100'-4,104'

Limestone, light gray-buff/tan, mottled, very fine-micro crystalline, firm-dense, slightly fossiliferous, cherty, slightly pyritic, some dolomitic with inter-bedded shale stringers, poor-fair granular and inter-crystalline porosity, fine vug porosity, GOOD SHOW: moderate oil odor, medium bright yellow fluorescence, saturated oil stain, live brown oil droplets/show free oil, bright yellow streaming live cut, light tan dried residual ring fluorescence.

This zone was not drill stem tested.

Log Tech Logs show this zone is well developed with an extremely clean gamma ray signature, poor-fair SP development, maximum 14% neutron porosity, maximum 8.25% density porosity, and has a maximum 20 ohms deep resistivity.



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

H&M Petroleum Corporation

13570 Meadow Grass
Rd ste 101
Colorado Spgs Co 80921
ATTN: Shane Boillot

Betty Thunder #3

30-9s-24w

Job Ticket: 041007 DST#: 1

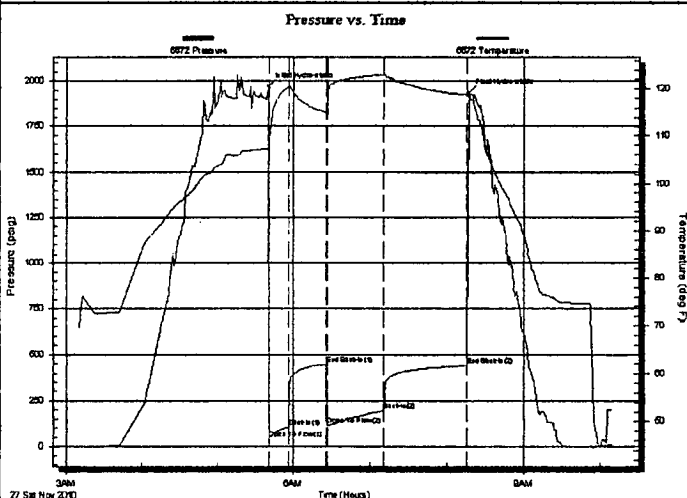
Test Start: 2010.11.27 @ 03:10:25

GENERAL INFORMATION:

Formation: **LKC-C**
 Deviated: **No** Whipstock ft (KB)
 Time Tool Opened: 05:40:25
 Time Test Ended: 10:09:55
 Interval: **3930.00 ft (KB) To 3942.00 ft (KB) (TVD)**
 Total Depth: **3942.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**
 Test Type: **Conventional Bottom Hole**
 Tester: **Jeff Brown**
 Unit No: **44**
 Reference Elevations: **2574.00 ft (KB)**
2569.00 ft (CF)
 KB to GR/CF: **5.00 ft**

Serial #: 6672 **Inside**
 Press@RunDepth: **196.22 psig @ 3931.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2010.11.27** End Date: **2010.11.27** Last Calib.: **2010.11.27**
 Start Time: **03:10:25** End Time: **10:09:55** Time On Btmr: **2010.11.27 @ 05:39:55**
 Time Off Btmr: **2010.11.27 @ 08:16:55**

TEST COMMENT: IFF-Good blow BOB in 11 1/2 min
 IS-Dead
 FFP-Good blow BOB in 16 1/2 min
 FS-Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1969.50	107.27	Initial Hydro-static
1	41.53	106.89	Open To Flow (1)
15	105.30	120.51	Shut-In(1)
30	443.85	115.08	End Shut-In(1)
45	118.29	117.76	Open To Flow (2)
60	196.22	122.90	Shut-In(2)
156	438.72	118.68	End Shut-In(2)
157	1934.80	118.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
378.00	MW20%M80%W	4.17
10.00	MW with oil spots 25%M75%W	0.14

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

H&M Petroleum Corporation

13570 Meadow Grass
Rd ste 101
Colorado Spgs Co 80921
ATTN: Shane Boillot

Betty Thunder #3

30-9s-24w

Job Ticket: 041008 DST#: 2

Test Start: 2010.11.27 @ 16:17:59

GENERAL INFORMATION:

Formation: **LKC-D**

Deviated: **No Whipstock** ft (KB)

Time Tool Opened: 18:10:59

Time Test Ended: 22:47:59

Test Type: **Conventional Bottom Hole**

Tester: **Jeff Brown**

Unit No: **44**

Interval: **3944.00 ft (KB) To 3954.00 ft (KB) (TVD)**

Total Depth: **3954.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2574.00 ft (KB)**

2569.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 6672

Inside

Press@RunDepth: **212.44 psig @ 3946.00 ft (KB)**

Start Date: **2010.11.27**

End Date:

2010.11.27

Start Time: **16:17:59**

End Time:

22:47:59

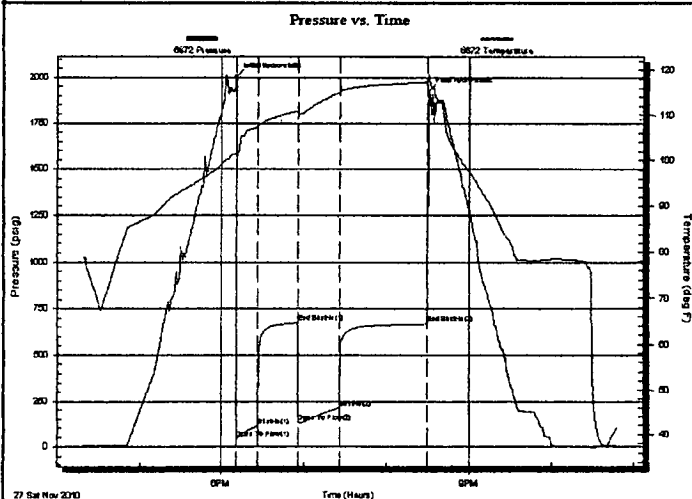
Capacity: **8000.00 psig**

Last Calib.: **2010.11.27**

Time On Btrr: **2010.11.27 @ 18:10:29**

Time Off Btrr: **2010.11.27 @ 20:30:29**

TEST COMMENT: IFF-Good blow BOB in 8 min
ISI-Weak blow back built to 1/2 died back to 1/4 in
FFP-Good blow BOB in 10 1/2 min
FSI-Weak blow back built to 1/2 in died back to 1/4 in



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2006.07	101.44	Initial Hydro-static
1	42.74	100.40	Open To Flow (1)
15	113.22	107.28	Shut-in(1)
30	675.95	111.00	End Shut-in(1)
46	132.71	110.73	Open To Flow (2)
30	76	212.44	Shut-in(2)
60	139	670.33	End Shut-in(2)
140	1925.63	118.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
376.00	MW20%MB0%W	4.14
31.00	MW with oil spots 15%MB5%W	0.43
5.00	OIL	0.07
0.00	147 GIP	0.00

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

H&M Petroleum Corporation
 13570 Meadow Grass Rd ste 101
 Colorado Spgs Co 80921
 ATTN: Shane Boillot

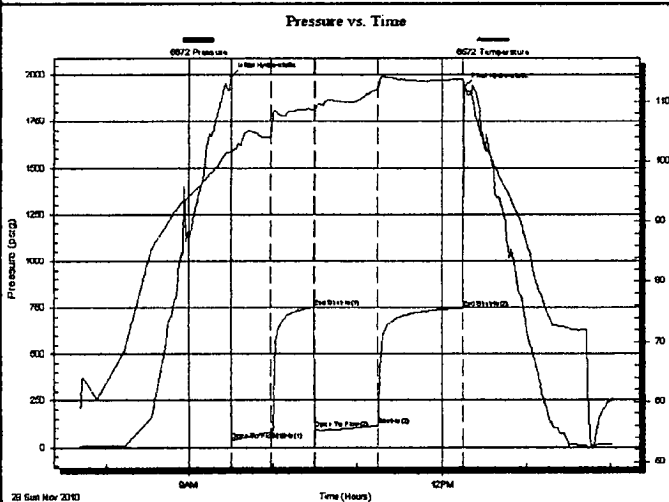
Betty Thunder #3
30-9s-24w
 Job Ticket: 041009 DST#: 3
 Test Start: 2010.11.28 @ 07:41:28

GENERAL INFORMATION:

Formation: **LKC-F**
 Deviated: **No Whipstock** ft (KB)
 Time Tool Opened: 09:30:28
 Time Test Ended: 14:02:28
 Interval: **3962.00 ft (KB) To 3997.00 ft (KB) (TVD)**
 Total Depth: **3997.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**
 Test Type: **Conventional Bottom Hole**
 Tester: **Jeff Brown**
 Unit No: **44**
 Reference Elevations: **2574.00 ft (KB)**
2569.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6672 **Inside**
 Press@RunDepth: **112.60 psig @ 3965.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2010.11.28** End Date: **2010.11.28** Last Calib.: **2010.11.28**
 Start Time: **07:41:28** End Time: **14:02:28** Time On Btm: **2010.11.28 @ 09:29:58**
 Time Off Btm: **2010.11.28 @ 12:15:58**

TEST COMMENT: IFF-Fair blow built to 7 in
 IS-Dead no blow back
 FFP-Fair blow built to 8 in
 FSI-Weak surface blow back



PRESSURE SUMMARY

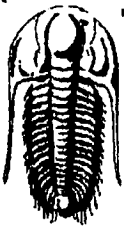
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1991.64	101.78	Initial Hydro-static
1	36.40	101.36	Open To Flow (1)
30 29	79.09	104.15	Shut-In (1)
30 60	749.60	108.69	End Shut-In (1)
45 60	96.96	108.74	Open To Flow (2)
60 105	112.60	112.22	Shut-In (2)
60 165	747.37	113.67	End Shut-In (2)
166	1932.71	112.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	MM50%MS0%W	0.61
78.00	MM5%W95%M	1.09

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

H&M Petroleum Corporation

13570 Meadow Grass Rd ste 101
Colorado Spgs Co 80921
ATTN: Shane Boillot

Betty Thunder #3

30-9s-24w

Job Ticket: 041010 DST#: 4

Test Start: 2010.11.29 @ 05:03:18

GENERAL INFORMATION:

Formation: **LKC-H-I-J**

Deviated: **No Whipstock** ft (KB)

Time Tool Opened: **07:12:18**

Time Test Ended: **11:57:48**

Test Type: **Conventional Bottom Hole**

Tester: **Jeff Brown**

Unit No: **44**

Interval: **4022.00 ft (KB) To 4094.00 ft (KB) (TVD)**

Total Depth: **4094.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2574.00 ft (KB)**

2569.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 6672

Inside

Press@RunDepth: **88.72 psig @ 4058.00 ft (KB)**

Start Date: **2010.11.29**

End Date: **2010.11.29**

Start Time: **05:03:18**

End Time: **11:57:48**

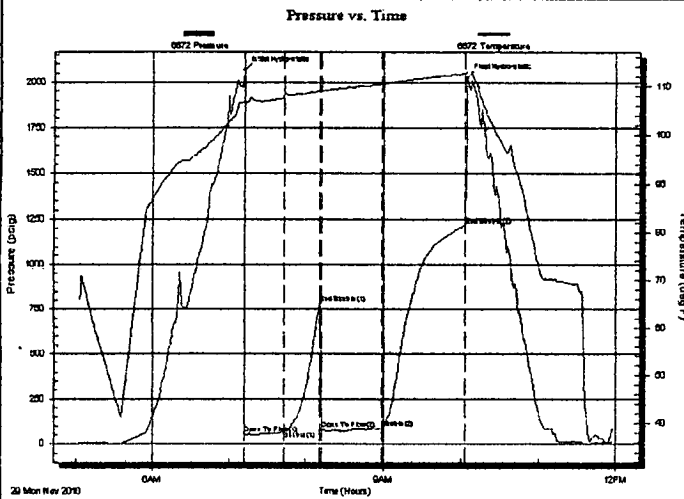
Capacity: **8000.00 psig**

Last Calib.: **2010.11.29**

Time On Btm: **2010.11.29 @ 07:11:48**

Time Off Btm: **2010.11.29 @ 10:04:18**

TEST COMMENT: IFP-Fair blow built to 5 3/4 in
ISI-Dead no blow back
FFP-Fair blow built to 9 1/2 in
FSI-Dead no blw back



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2064.44	106.86	Initial Hydro-static
1	57.87	106.47	Open To Flow (1)
30	31	72.22	Shut-In(1)
30	59	782.36	End Shut-In(1)
45	60	81.01	Open To Flow (2)
60	107	88.72	Shut-In(2)
60	171	1217.37	End Shut-In(2)
173	2025.16	113.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	VSOCM2%O98%M	0.30
62.00	SOCGM5%O5%G90%M	0.30
0.00	157 GIP	0.00

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

H&M Petroleum Corporation
 13570 Meadow Grass Rd ste 101
 Colorado Spgs Co 80921
 ATTN: Shane Boillot

Betty Thunder #3

30-9s-24w

Job Ticket: 041011

DST#: 6

Test Start: 2010.11.29 @ 20:35:50

GENERAL INFORMATION:

Formation: **LKC-K-L**
 Deviated: **No Whipstock** ft (KB)
 Time Tool Opened: **22:21:50**
 Time Test Ended: **03:04:50**

Test Type: **Conventional Bottom Hole**
 Tester: **Jeff Brown**
 Unit No: **44**

Interval: **4098.00 ft (KB) To 4134.00 ft (KB) (TVD)**
 Total Depth: **4134.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2574.00 ft (KB)**
2569.00 ft (CF)
 KB to GR/CF: **5.00 ft**

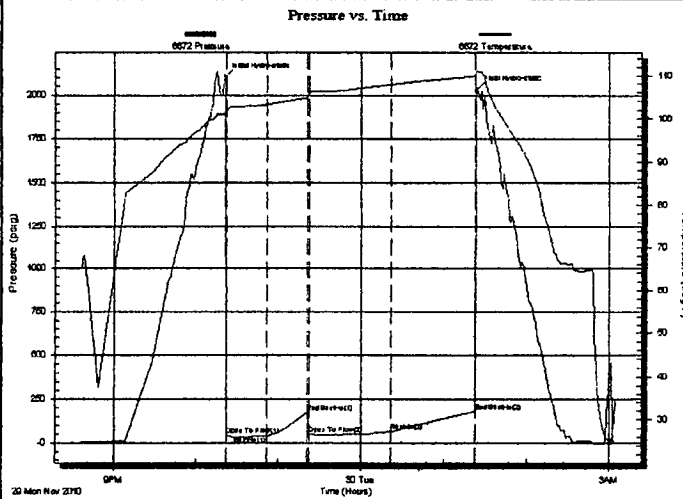
Serial #: 6672

Inside

Press@RunDepth: **66.51 psig @ 4099.00 ft (KB)**
 Start Date: **2010.11.29** End Date: **2010.11.30**
 Start Time: **20:35:50** End Time: **03:04:50**

Capacity: **8000.00 psig**
 Last Calib.: **2010.11.30**
 Time On Btrn: **2010.11.29 @ 22:21:20**
 Time Off Btrn: **2010.11.30 @ 01:23:50**

TEST COMMENT: **IFP-Fair blow built to 7 1/2 in**
ISI-Dead no blow back
FFP-Fair blow built to 5 in
FSI-Dead no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2107.08	101.06	Initial Hydro-static
1	43.80	100.54	Open To Flow (1)
31	38.92	103.29	Shut-In (1)
60	171.51	104.85	End Shut-In (1)
61	50.13	105.81	Open To Flow (2)
120	66.51	107.84	Shut-In (2)
181	179.91	109.80	End Shut-In (2)
183	2035.64	110.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	HOCGM5%G40%O55%M	0.30
0.00	156 GIP	0.00

Gas Rates

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

SUMMARY

The Betty Thunder Prospect is located in southwestern Graham County, Kansas. Numerous oil fields surrounding the prospect produce high gravity oil from the prolific multiple pay Zone Pennsylvanian aged Lansing/Kansas City Group. These oil fields have cumulatively produced from 269,000 BO to over 1,000,000+BO each.

In the prospect area, 10 out of 11 Lansing/Kansas City Group Zone's have commercial oil production within two miles of the Betty Thunder Prospect. The primary objectives in the Betty Thunder No. 3 test well included the Lansing "C", "D" and "F" Zone's and the Kansas City "I", "J" and "K" Zone's. Secondary objectives included the Lansing "A" and "E" Zone's and the Kansas City "H" and "L" Zone's.

The Betty Thunder Prospect was originally defined through subsurface structure and isopach (thickness) mapping from existing well control. A 2.25 square mile 3-D seismic survey was shot over the Betty Thunder Prospect leasehold which defined several structural features. The Betty Thunder No. 3 well tested a north dipping structural nose connected to the Dreil Field structural closure located in the southern portion of Section 30 and the northern and eastern portions of Section 31-T9S-R24W.

The Betty Thunder No. 3 is located 3/8ths of a mile west of the H & M Petroleum Corp. Betty Thunder No. 2 Lansing/Kansas City Group discovery well, located in the NE-NE-SE-Section 30-T9S-R24W. The 3-D seismic shows that the Betty Thunder No. 2 location and structural closure is separate and is not connected to the Betty Thunder No. 3 well structural feature.

Surrounding wells used for correlation in this report include: Reference Well "A"/Dreiling Oil Beiker No. 1 (SE-SW-SE-Section 30-T9S-R24W); Reference Well "B"/H & M Petroleum Corp. Betty Thunder No. 2 (NW-NW-SE-Section 30-T9S-R24W); and Reference Well "C"/Murfin Drilling Englebert No. 1 (NW-NW-NE-Section 30-T9S-R24W).

The Betty Thunder No. 3 test well is located approximately 10 miles west and 9 miles south of Hill City, Kansas.

Five (5) open hole drill stem test's were run during the drilling of the Betty Thunder No. 3, all based on visual oil shows and associated rate of penetration drilling breaks:

-DST No. 1 tested the Lansing "A"- "C" Zone's and recovered 10 feet of muddy water with oil spots and 378 feet of muddy water with shut in pressures of 443-438 p.s.i.

-DST No. 2 isolated the Lansing "D" Zone and recovered 147 feet of gas in pipe, 5 feet of oil, 31 feet of muddy water with oil spots and 376 feet of muddy water with shut in pressures of 675-670 p.s.i.

-DST No. 3 tested the (Lansing "E" Zone not developed) and "F" Zone's and recovered 78 feet of watery mud and 124 feet of muddy water with shut in pressures of 749-747 p.s.i.

-DST No. 4 tested the Kansas City "H"- "I" Zone's and recovered 157 feet of gas in pipe, 62 feet of slightly oil cut gassy mud (2% oil) with shut in pressures of 782-1,217 p.s.i.

-DST No. 5 tested the Kansas City "K"- "L" Zone's and recovered 156 feet of gas in pipe and 62 feet of heavy oil cut gassy mud (5% gas, 40% oil) with shut in pressures of 171-179 p.s.i.

The Betty Thunder No. 3 well was spudded on November 22, 2010, and after plugging and abandoning the well, the rig was released on December 1, 2010. No significant drilling problems were encountered during the drilling of this well.

The well was under 24-hour geological supervision from 3,600 feet to 4,190 feet RTD. Wet and dry drilling samples were caught by the drilling crews from 3,630 feet to 4,190 feet RTD at 10-foot intervals. All lithologic descriptions were lagged to true depth by the consulting wellsite geologist.

Hydrocarbon Shows

Several significant free live oil sample shows were observed and recorded in the samples during the drilling of the Betty Thunder No. 3 in the primary and secondary objective Lansing/Kansas City Group and include:

-Lansing "C" Zone:	Good Show:	faint oil odor, medium bright yellow fluorescence, near saturated oil stain, live light brown free oil show, oil filled porosity, medium - bright yellow immediate streaming live cut, light tan dried residual ring fluorescence.
-Lansing "D" Zone:	Intermediate Show:	slight oil odor, bright yellow fluorescence, near saturated oil stain, light brown show live oil, immediate streaming live cut, tan dried residual fluorescence.
-Lansing "F" Zone:	Fair Show:	faint oil odor, light yellow fluorescence, mostly even tan-brown oil stain, poor show free oil/break, slow milky crush live cut, very good milky cut.
-Kansas City "H" Zone:	Intermediate Show:	slight oil odor, medium yellow fluorescence, brown oil stain, brown show free oil, medium yellow to milky slow streaming live cut, tan dried residual ring fluorescence.

-Kansas City "I" Zone:	Fair Show:	slight oil odor, medium bright yellow fluorescence, mostly even brown-dark brown oil stain, brown-dark brown show free oil/droplets on break, medium yellow streaming cut, tan dried residual ring fluorescence.
-Kansas City "J" Zone:	Intermediate Show:	slight oil odor, medium yellow fluorescence, saturated brown oil stain, light tan show free oil/break, medium bright yellow immediate streaming live cut, tan dried residual ring fluorescence.
-Kansas City "K" Zone:	Good Show:	moderate oil odor, medium bright yellow fluorescence, saturated oil stain, live brown oil droplets/show free oil, bright yellow streaming live cut, light tan dried residual ring fluorescence.
-Kansas City "L" Zone:	Good Show:	slight oil odor, medium bright yellow fluorescence, saturated brown oil stain, live brown oil droplets/show free oil, immediate bright yellow streaming live cut, light tan dried residual ring fluorescence.

There were no observed sample hydrocarbon shows recorded in the Topeka or Toronto Formation's, and Lansing "A", "E" or "G" Zone's.

Complete lithologic descriptions and hydrocarbon sample shows can be found in the detailed "Zones of Interest" portion of this geologic report. Complete Drill Stem Test fluid recovery results and pressures can be found in this report under "Drill Stem Tests".

Structural Position

As the 3-D seismic interpretation correctly predicted, the Betty Thunder No. 3 runs moderately structurally low throughout the well relative to the Dreil Field located to the south and Reference Well "A", and structurally high relative to Reference Well "B" (Betty Thunder No. 2 oil discovery) and Reference Well "C" (a dry hole).

Compared to Reference Well "A"/Dreiling Oil Beiker No. 1 (SE-SW-SE-Section 30-T9S-R24W), the Betty Thunder No. 3 runs: +11 feet high at the Stone Corral Anhydrite, -3 feet low at the Heebner Shale, flat at the Top/Lansing "A", -9 feet low at the Muncie Creek Shale, -3 feet low at the Kansas City "J" Zone, and -7 feet low at the Base/Kansas City.

Compared to Reference Well "B"/H & M Petroleum Betty Thunder No. 2 (NE-NE-SE-Section 30-T9S-R24W), the Betty Thunder No. 3 runs: +12 feet high at the Stone Corral Anhydrite, +8 feet high at the Heebner Shale, and +10 feet high at the Top/Lansing "A", +4 feet high at the Muncie Creek Shale, +7 feet high at the Kansas City "J" Zone, and +8 feet high at the Base/Kansas City.

Compared to Reference Well "C"/Murfin Drilling Co. Engelbert No. 1 (NW-NW-NE-Section 30-T9S-R24W), the Betty Thunder No. 3 runs: -4 feet low at the Stone Corral Anhydrite, +6 feet high at the Heebner Shale, and +16 feet high at the Top/Lansing "A", +5 feet high at the Muncie Creek Shale, +11 feet high at the Kansas City "J" Zone, and +6 feet high at the Base/Kansas City.

A complete structural comparison of the Formation Tops in this well, in relation to the Reference Wells, can be found in the detailed "Formation Tops" table in this geologic report.

Conclusion

The Betty Thunder No. 3 wildcat test location was based on a 3-D seismic survey interpretation which indicated a north plunging structural nose related to the Dreil Field structural closure at the Lansing datum. The Betty Thunder No. 3 is predominately moderately structurally low to the Dreil Field and Reference Well "A" (located in the Dreil Field), and structurally high to Reference Well "B" (located on a separate structural feature) and Reference Well "C" (a structurally low dry hole).

Numerous free oil sample shows were observed in the Lansing "C", "D", and "F" Zone's and the Kansas City "H", "I", "J", and "K" Zone's. Based on sample oil shows and associated drilling breaks, five drill stem tests were run in the Lansing/Kansas City Group. Drill Stem Test's No. 1, 2, and 3 all tested wet (muddy water or watery mud), and Drill Stem Test's No. 4 and 5 recovering moderate amounts of oil and gas with mud with associated moderate to poor bottom hole pressures.

Therefore, based predominately on the negative fluid recoveries (water or modest hydrocarbon recoveries with mud) and bottom hole pressure results on the five drill stem tests, the structural position of the primary objective Lansing/Kansas City Group relative to the three Reference Well's as confirmed by Log-Tech logs evaluation and analysis, the Betty Thunder No. 3 test well was plugged and abandoned as a non-commercial dry hole.

Respectfully Submitted,

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