

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1
June 2009

Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

1/24/11

OPERATOR: License # 34055
Name: H&M PETROLEUM CORPORATION
Address 1: 13570 MEADOWGRASS DRIVE SUITE 120
Address 2:
City: COLORADO SPRINGS State: CO Zip: 80921 +
Contact Person: SHANE BOILLOT
Phone: (719) 590-6060
CONTRACTOR: License # 33575
Name: WW DRILLING
Wellsite Geologist: CLAYTON ERICKSON
Purchaser: COFFEYVILLE RESOURCES

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Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.):

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

9/27/10	10/02/10	10/03/10
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 065-23680-00-00
Spot Description: _____
S2 SW NW Sec. 29 Twp. 9 S. R. 24 East West
2,310 Feet from North / South Line of Section
660 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: GRAHAM
Lease Name: BETTY THUNDER Well #: 1
Field Name: UNKNOWN
Producing Formation: LANSING
Elevation: Ground: 2553 Kelly Bushing: 2558
Total Depth: 4180 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 5 JTS@233' Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: 2214 Feet
If Alternate II completion, cement circulated from: 2214
feet depth to: SURFACE w/ 345 sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 1000 ppm Fluid volume: 200 bbls

Dewatering method used: EVAPORATION

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature: _____

Title: LAND MGR Date: 1/19/11

KCC Office Use ONLY

Letter of Confidentiality Received
Date: 1/17/11 - 1/17/13
 Confidential Release Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: [Signature] Date: 2/8/11

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18

Operator Name: H&M PETROLEUM CORPORATION Lease Name: BETTY THUNDER Well #: 1

Sec. 29 Twp. 9 S. R. 24 East West County: GRAHAM

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INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: DI, MICRO, NEUTRON/DENSITY, SONIC	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Datum</th> </tr> </thead> <tbody> <tr> <td>ANHYDRITE</td> <td>2255</td> <td>+333</td> </tr> <tr> <td>TOPEKA</td> <td>3642</td> <td>-1084</td> </tr> <tr> <td>HEEBNER</td> <td>3862</td> <td>-1304</td> </tr> <tr> <td>LANSING A</td> <td>3897</td> <td>-1339</td> </tr> <tr> <td>LANSING D</td> <td>3937</td> <td>-1379</td> </tr> <tr> <td>MUNCIE CREEK</td> <td>4024</td> <td>-1466</td> </tr> <tr> <td>KC J/ KC BASE</td> <td>4078/4128</td> <td>-1520/-1570</td> </tr> </tbody> </table>	Name	Top	Datum	ANHYDRITE	2255	+333	TOPEKA	3642	-1084	HEEBNER	3862	-1304	LANSING A	3897	-1339	LANSING D	3937	-1379	MUNCIE CREEK	4024	-1466	KC J/ KC BASE	4078/4128	-1520/-1570
Name	Top	Datum																							
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MUNCIE CREEK	4024	-1466																							
KC J/ KC BASE	4078/4128	-1520/-1570																							

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
SURFACE	12 1/4	8 5/8	23#	233	COMMON	160	3%CC/ 2% GELL
PRODUCTION	7 7/8	5 1/2	15.5#	4184	COMMON	345	10%SALT/5%GILSONITE

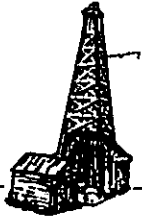
ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth
4	3928-3930	SHOT	3930
4	3938-3942	SHOT	3942
4	4079-4082	SHOT	4082

TUBING RECORD:	Size: <u>2 7/8</u>	Set At: <u>2214</u>	Packer At: <u>3550</u>	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
----------------	--------------------	---------------------	------------------------	--------------------------------------------------------------------------------

Date of First, Resumed Production, SWD or ENHR. <u>1/7/11</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____				
Estimated Production Per 24 Hours	Oil Bbls. <u>80</u>	Gas Mcf <u>0</u>	Water Bbls. <u>40</u>	Gas-Oil Ratio	Gravity <u>36.8</u>

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>3938-3942</u>
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WHITEHALL EXPLORATION

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WELLSITE GEOLOGICAL CONSULTING

GEOLOGICAL ANALYSIS & WELL REPORT

H & M Petroleum Corporation

BETTY THUNDER No. 1

2,310' FNL & 660' FWL
C-S/2-SW-NW
Section 29-Township 9 South-Range 24 West
Graham County, Kansas

October 14, 2010

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GENERAL INFORMATION

Elevation: G.L. 2,553' K.B. 2,558'
All measurements are from K.B.

Field: Wildcat

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

Total Depth: RTD: 4,180' LTD: 4,185'

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

Production Casing: 5 1/2" set @ 4,178'

Drill Time Kept: 3,575'-4,180' RTD

Samples Examined: 3,600'-4,180' RTD

Geological Supervision: 3,575'-4,180' RTD

Wellsite Geologist: Clayton Erickson
Consulting Wellsite Geologist-Loomis, Nebraska

Drill Stem Tests: 1) Lansing "C"- "D" Zone's - Open hole test
2) Kansas City "I"- "J" 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
-Micro Log
-Neutron/Density Porosity
-Sonic

Samples: Examined & discarded

Total Depth Formation: Base/Kansas City

Well Status: Production casing set to further test several
Lansing/Kansas City Group Zone's

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DAILY DRILLING CHRONOLOGY

<u>2010</u> <u>Date</u>	<u>7:00 A.M.</u> <u>Depth</u>	<u>24 Hour</u> <u>Footage</u>	<u>7:00 A.M. Operation; 24 Hour Activity</u>
09/27/10	0	0	MIRU; spud @ 2:30 P.M., drilling to 234', circ., TOO H, run 5 jts 8 5/8" 20# surf. csg. set @ 233', cement csg. w/160 sx-plug down @ 6:45 P.M., Wait On Cement 8', TIH w/ bit, drill out @ 2:45 A.M.-9/28/10, drilling.
09/28/10	780'	780'	Drilling ahead; jet, drilling, jet, drilling, jet, drilling.
09/29/10	2,765'	1,985'	Drilling ahead; jet, drilling, jet, drilling, jet and displace hole @ 2,987' (660 bbls), drilling, jet, drilling.
09/30/10	3,495'	730'	Drilling ahead; CFS @ 3,915', drilling, CFS @ 3,935', drilling, CFS @ 3,950', short trip 37 stands (3.5 hrs), circ. 1', drop dev. survey and TOO H strapping pipe (0.36' short), pick up test tool, TIH, running DST #1.
10/01/10	3,950'	455'	Running DST No. 1; TOO H, lay down test tool, TIH w/bit, drilling, CFS @ 3,985', drilling, CFS @ 4,045', drilling, CFS @ 4,063', drilling, CFS @ 4,085'.
10/02/10	4,085'	135'	Circulate For Sample (CFS); TOO H, pick up test tool, TIH, run DST #2, run DST No. 2; TOO H, lay down test tool, TIH w/bit, drilling, CFS @ 4,105', drilling, reach 4,180' RTD @ 9:15 P.M., short trip, circ. 1', TOO H, rig up loggers.
10/03/10	4,180'	95'	Running Log-Tech open hole logs; (7:00-11:45 A.M.), rig down loggers, TIH w/collars-lay down collars, TIH w/ drill pipe, circ., TOO H laying down drill pipe, rig up and run 5 1/2" prod. csg. set @ 4,178'-did not land, cement csg w/160 sx.-plug down @ 11:45 P.M., rig released @ 1:45 A.M.-10/04/10.

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DEVIATION SURVEYS

<u>Depth</u>	<u>Deviation (Degrees)</u>
234'	0.50
3,950'	0.75
4,180'	0.75

REFERENCE WELLS

Reference Well "A": J. A. Terteling & Sons
Petett Heirs No. 1
SW-NW-SW
Section 29-T9S-R24W
Graham County, Kansas
KB: 2,558'
RTD: 4,160'
Date Drilled: April, 1962
TD Formation: Base/Kansas City
Status: Dry & Abandoned (1 DST run-tight)

Reference Well "B": Don E. Pratt
Englebert No. 1
NE-SE-NW
Section 29-T9S-R24W
Graham County, Kansas
KB: 2,534'
RTD: 3,890'
Date Drilled: May, 1962
TD Formation: Base/Kansas City
Status: Dry & Abandoned (No Log run, No DST)

Reference Well "C": Don E. Pratt
J. C. No. 1
C-NE/4
Section 30-T9S-R24W
Graham County, Kansas
KB: 2,579'
RTD: 4,140'
Date Drilled: October, 1976
TD Formation: Base/Kansas City
Status: Dry & Abandoned (3 DST's-all recovered saltwater)

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FORMATION TOPS

	BETTY THUNDER No. 1			Petett Heirs No. 1	Englebart No. 1	J.C. 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	2219	2255	+333	+330	+331	NA	+3	+2	NA
PENNSYLVANIAN									
Topeka	3640	3642	-1084	NA	-1097	NA	NA	+13	NA
Heebner Shale	3858	3862	-1304	-1308	-1315	-1307	+4	+11	+3
Lansing "A"	3894	3897	-1339	-1342	-1356	-1344	+3	+17	+5
Lansing "D"	3934	3937	-1379	-1388	NDE	NA	+9	NA	NA
Muncie Creek Shale	4021	4024	-1466	-1469	NDE	NA	+3	NA	NA
Kansas City "J"	NA	4078	-1520	-1524	NDE	NA	+4	NA	NA
Base/Kansas City	4124	4128	-1570	-1574	NDE	NA	+4	NA	NA

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ZONES OF INTEREST

<u>Formation</u>	<u>Log Depth</u>	<u>Lithologic & Show Descriptions, Remarks</u>
Lansing "C"	3,926'-3,930'	<p>Limestone, white-cream, fine crystalline grain stone development, common white-orange chert, poor pin point porosity with rare fine inter-granular porosity, INTERMEDIATE SHOW: faint odor, poor show free oil on break, several oil droplets in water.</p> <p>The Lansing "C" Zone was included on DST No. 1 which covered the Lansing "C"- "D" Zone's and on a 60 minute total flow period recovered 450 feet of: gas in pipe and 300 feet of total fluid consisting of 135 feet of clean gassy oil (20% gas, 80% oil), and 165 feet of gassy mud cut oil (10% gas, 60% oil, 30% mud), with flow pressures of 38-82 and 90-121 p.s.i. and shut in pressures of 768-768 p.s.i. (Oil = 36 degrees API Gravity).</p> <p>Log-Tech logs show this zone has a very clean gamma ray signature, poor SP development, 4.5-10% neutron porosity, 5-10% density porosity, 5-13% sonic porosity, 1 foot of well developed microlog, and has a maximum 27 ohms deep resistivity.</p>
Lansing "D"	3,937'-3,942'	<p>Limestone, white-cream, fine crystalline grain stone development, poor pin point to good inter-granular porosity, INTERMEDIATE SHOW: fair odor, light brown oil stain, poor show free oil.</p> <p>This zone was included on DST No. 1 which covered the Lansing "C"- "D" Zone's and on a 60 minute total flow period recovered 450 feet of gas in pipe and 300 feet of total fluid consisting of: 135 feet of clean gassy oil (20% gas, 80% oil), and 165 feet of gassy mud cut oil (10% gas, 60% oil, 30% mud), with flow pressures of 38-82 and 90-121 p.s.i. and shut in pressures of 768-768 p.s.i. (Oil = 36 degrees API Gravity).</p> <p>Log-Tech logs show this zone is well developed with a very clean gamma ray signature, good SP development, 4-9% neutron porosity, 5-9% density porosity, 5-12% sonic porosity, 2+ feet of very well developed microlog, and has a maximum 20 ohms deep resistivity.</p>

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Kansas City "I" 4,060'-4,067'

Limestone, white-cream, predominately fine crystalline grain stone development, slightly chalky, poor-trace fair pin point porosity, GOOD SHOW: fair odor, saturated light brown oil stain, poor-fair show free oil on break.

This zone was included on DST No. 2 which tested the Kansas City "I"- "J" Zone's and recovered 310 feet of gas in pipe and 145 feet of total fluid consisting of: 15 feet of clean gassy oil (10% gas, 90% oil), 130 feet of gassy oil cut mud (5% gas, 40% oil, 55% mud), with flow pressures of 21-36 and 44-70 p.s.i. and shut in pressures of 1,340-1,346 p.s.i. (Oil = 34 degrees API Gravity).

Log-Tech logs show this zone has a very clean gamma ray signature, no SP development, maximum 6-9% neutron porosity, maximum 5% density porosity, 7-17% sonic porosity, moderate microlog development, and has a maximum 19 ohms deep resistivity.

Kansas City "J" 4,078'-4,082'

Limestone, white-cream, fine crystalline grain stone development, poor-fair inter-granular porosity, FAIR SHOW: fair odor, saturated light brown oil stain, poor-fair show free oil/ break, floating oil droplets on water.

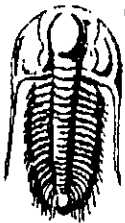
This zone was included on DST No. 2 which tested the Kansas City "I"- "J" Zone's and recovered 310 feet of gas in pipe and 145 feet of total fluid consisting of: 15 feet of clean gassy oil (10% gas, 90% oil), 130 feet of gassy oil cut mud (5% gas, 40% oil, 55% mud), with flow pressures of 21-36 and 44-70 p.s.i. and shut in pressures of 1,340-1,346 p.s.i. (Oil = 34 degrees API Gravity).

Log Tech Logs show this zone is a well developed reservoir with a very clean gamma ray signature, good SP development, maximum 16% neutron porosity, maximum 9% density porosity, maximum 17% sonic porosity, 4 feet of well developed microlog, and has a maximum 15 ohms deep resistivity over this interval.

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TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

H&M Petroleum Corp
 13570 Meadow grass Dr Ste 101
 Colorado Springs Co 80921
 ATTN: David Allen

Betty Thunder # 1
29-9-24-Graham-Ks
 Job Ticket: 040354 DST#: 1
 Test Start: 2010.10.01 @ 11:35:06

GENERAL INFORMATION:

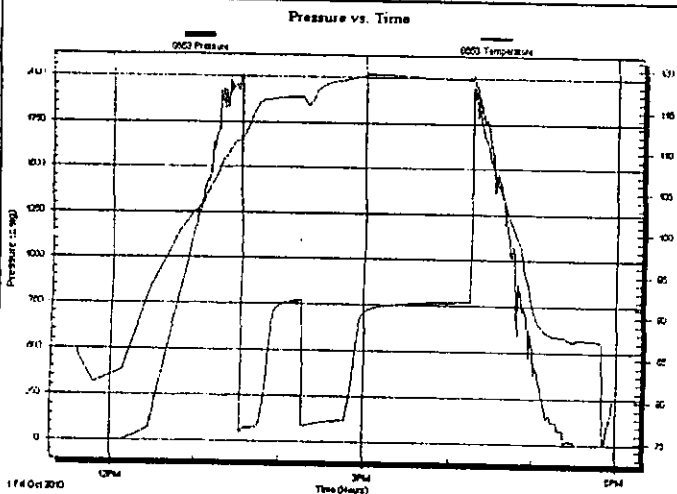
Formation: C-D LKC
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:32:21
 Time Test Ended: 17:58:51
 Interval: 3912.00 ft (KB) To 3950.00 ft (KB) (TVD)
 Total Depth: 3950.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole
 Tester: Dan Bangle
 Unit No: 38
 Reference Elevations: 2558.00 ft (KB)
 2553.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8653

Press@RunDepth: psig @ ft (KB)
 Start Date: 2010.10.01 End Date: 2010.10.01 Capacity: 8000.00 psig
 Start Time: 11:35:30 End Time: 17:58:00 Last Calib.: 2010.10.01
 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF-Strong B-B in 9 min
 IS-Weak steady surface blow
 FF-Strong B-B in 9 min
 FS-Weak building to 2 1/2" died in 90 min



PRESSURE SUMMARY

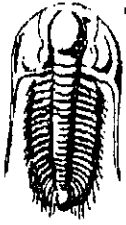
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1990		IHP
15	38		IFP
15	82		IFP-END
30	768		ISIP
90	90		FFP
135	121		FFP-END
220	768		FSIP
221	1912		KHP

Recovery

Length (ft)	Description	Volume (bbl)
165.00	OCGsyM 10%g 60%o 30%m	1.18
135.00	CGsyO 20%g 80%o	1.89
0.00	450 GIP	0.00

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

H&M Petroleum Corp
 13570 Meadow grass Dr Ste 101
 Colorado Springs Co 80921
 ATTN: David Allen

Betty Thunder # 1
29-9-24-Graham-Ks
 Job Ticket: 040355 DST#: 2
 Test Start: 2010.10.02 @ 09:33:04

GENERAL INFORMATION:

Formation: I-J LKC
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:25:19
 Time Test Ended: 16:40:34

Test Type: Conventional Bottom Hole
 Tester: Dan Bangle
 Unit No: 38

Interval: 4042.00 ft (KB) To 4085.00 ft (KB) (TVD)
 Total Depth: 4085.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2558.00 ft (KB)
 2553.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8354

Inside

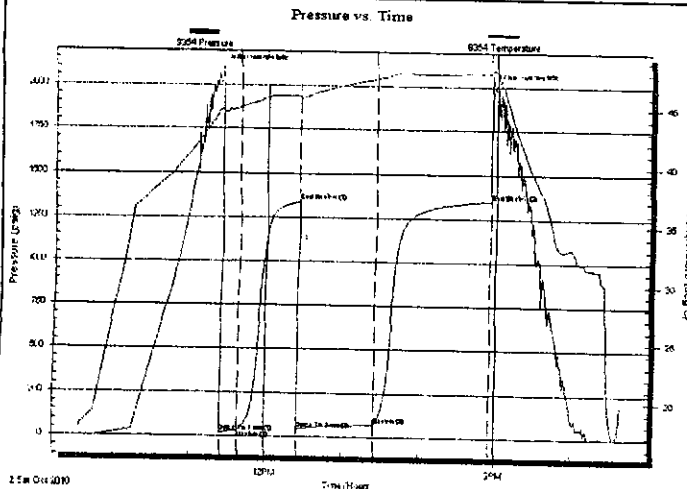
Press@RunDepth: 69.82 psig @ 4043.00 ft (KB)
 Start Date: 2010.10.02 End Date: 2010.10.02
 Start Time: 09:33:05 End Time: 16:40:34

Capacity: 8000.00 psig
 Last Calib.: 2010.10.02
 Time On Btm: 2010.10.02 @ 11:25:04
 Time Off Btm: 2010.10.02 @ 14:57:49

TEST COMMENT: IF-Weak building to 2"

FF-Strong B-B in 20 min

FSI-Weak blow died in 10 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg C)	Annotation
0	2090.78	44.86	Initial Hydro-static
1	21.20	44.54	Open To Flow (1)
15"	35.94	44.98	Shut-In(1)
45"	1339.99	46.00	End Shut-In(1)
61	44.07	45.77	Open To Flow (2)
60"	121	69.82	Shut-In(2)
90"	211	1348.61	End Shut-In(2)
213	1995.21	48.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
130.00	MGSyO 5%g 40%o 55%r	0.69
15.00	CGSyO 10%g 90%o	0.21
0.00	310 GIP	0.00

Gas Rates

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

SUMMARY

The Betty Thunder Prospect is located in southwestern Graham County, Kansas where prolific commercial oil production occurs from the multiple pay zone Pennsylvanian aged Lansing/Kansas City Group. The prospect is surrounded by mature Lansing/Kansas City Group oil fields including the 1,000,000+ BO Hoeting Field, Dreil Field (269,000 BO), the Dreil SW Field (315,000 BO), and the Riedel North Field (292,000 BO).

The Betty Thunder No. 1 test well is located approximately 9.5 miles west and 9 miles south of Hill City, Kansas.

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 prospect leasehold which defined two prominent structural features. The Betty Thunder No. 1 wildcat well tested the northern moderate relief structural closure, at the Lansing datum, which trends northeast-southwest, and is located in the SW-NW/4 of Section 29-T9S-R24W. Also, a 3-D isochron map from the Stone Corral Anhydrite to Lansing indicates significant thinning at this location.

Several dry and abandoned wells surround the Betty Thunder No. 1 location and are used for correlation as Reference Well's for this report. Compared to Reference Well "A"/J. A. Terteling Petett Heirs No. 1 (SW-NW-SW-Section 29-T9S-R24W), Reference Well "B"/Don E. Pratt Englebert No. 1 (NE-SE-NW-Section 29-T9S-R24W), and Reference Well "C"/Don E. Pratt J. C. No. 1 (C-NE-Section 30-T9S-R24W), the Betty Thunder No. 1 runs structurally high throughout the well, as predicted by the 3-D seismic.

The primary objectives in the Betty Thunder No. 1 test well included the Lansing "C", "D" and "F" Zone's and the Kansas City "J" and "K" Zone's. Secondary objectives included the Lansing "A" and "E" Zone's and the Kansas City "H", "I" and "L" Zone's.

Two (2) open hole drill stem test's were run during the drilling of the Betty Thunder No. 1, based on visual oil shows and associated rate of penetration drilling breaks. DST No. 1 covered the Lansing "C"- "D" Zone's, and recovered 450 feet of gas in pipe, 135 feet of clean gassy oil and 165 feet of gassy mud cut oil (10% gas, 30% mud, 60% oil, no water) with shut in pressures of 768-768 p.s.i. DST No. 2 covered the Kansas City "I"- "J" Zone's, and recovered 310 feet of gas in pipe, 15 feet of clean gassy oil and 130 feet of gassy oil cut mud (5% gas, 40% oil, 55% mud, no water) with shut in pressures of 1,339-1,348 p.s.i.

The Betty Thunder No. 1 well was spudded on October 27, 2010, and the rig was released on November 3, 2010 after production casing was set. No significant drilling problems were encountered during the drilling of this well.

The well was under 24-hour geological supervision from 3,575 feet to 4,180 feet RTD. Wet and dry drilling samples were caught by the drilling crews from 3,600 feet to 4,180 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. 1 in the primary and secondary objective Lansing/Kansas City Group:

- | | | |
|------------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -Lansing "A" Zone: | Fair Show: | spotty-uneven light brown oil stain, fair show free oil (this zone was not drill stem tested) |
| -Lansing "C" Zone: | Intermediate Show: | faint odor, brown oil stain, poor show free oil, several floating oil droplets (this zone was included on DST No. 1 which covered the Lansing "C"- "D" Zone's and recovered 450' GIP, 135' clean gassy oil (20% gas, 80% oil) and 165' gassy mud cut oil (10% gas, 60% oil, 30% mud) with shut in pressures of 768-768 p.s.i. |
| -Lansing "D" Zone: | Intermediate Show: | fair odor, saturated light brown oil stain, poor show free oil (this Zone was included on DST No. 1 which covered the Lansing "C"- "D" Zone's and recovered 450' GIP, 135' clean gassy oil (20% gas, 80% oil) and 165' gassy mud cut oil (10% gas, 60% oil, 30% mud) with shut in pressures of 768-768 p.s.i. |
| -Lansing "F" Zone: | Good Show: | good odor, scattered oil stain, poor show free oil, floating oil droplets (this zone was not drill stem tested) |
| -Kansas City "H" Zone: | Poor Show: | light brown oil stain (this zone was not drill stem tested) |
| -Kansas City "I" Zone: | Good Show: | fair odor, saturated light brown oil stain, poor-fair show free oil (this Zone was included on DST No. 2 which tested the Kansas City "I"- "J" Zone's and recovered 310' GIP, |

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15' clean gassy oil and 130' of gassy oil cut mud (5% gas, 40% oil, 55% mud) with shut in pressures of 1,340-1,349 p.s.i.

-Kansas City "J" Zone: Good Show: fair odor, light brown saturated oil stain, poor-fair show free oil, floating oil droplets, grading to scattered asphaltic oil stain (this Zone was included on DST No. 2 which tested the Kansas City "I"- "J" Zone's and recovered 310' GIP, 15' clean gassy oil and 130' of gassy oil cut mud (5% gas, 40% oil, 55% mud) with shut in pressures of 1,340-1,349 p.s.i.

-Kansas City "K" Zone: Intermediate Show: very faint odor, scattered black asphaltic stain, rare good show free oil (this zone was not drill stem tested)

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

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 correctly predicted, the Betty Thunder No. 1 runs structurally high throughout the well relative to the three Reference Well's.

Compared to Reference Well "A"/J. A. Terteling Petett Heirs No. 1 (SW-NW-SW-Section 29-T9S-R24W), the Betty Thunder No. 1 runs: +3 feet high at the Stone Corral Anhydrite, +4 feet high at the Heebner Shale, +3 feet high at the Top/Lansing "A", +3 feet high at the Muncie Creek Shale, +4 feet high at the Kansas City "J" Zone, and +4 feet high at the Base/Kansas City.

Compared to Reference Well "B"/Don E. Pratt Englebert No. 1 (NE-SE-NW-Section 29-T9S-R24W), the Betty Thunder No. 1 runs: +2 feet high at the Stone Corral Anhydrite, +11 feet high at the Heebner Shale, and +17 feet high at the Top/Lansing "A" (this dry hole reached total depth in the Upper Lansing).

Compared to Reference Well "C"/Don E. Pratt J. C. No. 1 (C-NE-Section 30-T9S-R24W, the Betty Thunder No. 1 runs: +3 feet high at the Heebner Shale, and +5 feet high at the Top/Lansing "A" (no other formation tops were released on this well).

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. 1 wildcat test was based on a 3-D seismic survey interpretation which indicated a moderate relief structural closure at the Lansing datum was located in the SW-NW/4-Section 29-T9S-R24W.

Numerous free oil sample shows were observed in the Lansing "C", "D", and "F" Zone's and the Kansas City "I", "J", and "K" Zone's. Two drill stem tests were run over the Lansing "C"- "D" Zone's and the Kansas City "I"- "J" Zone's, both recovering gas in pipe, clean gassy oil and gassy mud cut oil, no water with good-excellent bottom hole pressures.

Therefore, based on the positive fluid recoveries (gas in pipe, clean gassy oil and gassy mud cut oil, no water) and pressure recoveries on Drill Stem Test's No. 1 (Lansing "C"- "F" Zone's) and 2 (Kansas City "I"- "J" Zone's), the favorable positive structural position of the primary objective Lansing/Kansas City Group as confirmed by Log-Tech logs evaluation and analysis, combined with the oil show's and reservoir development observed through sample examination, 5½ inch production casing was set in the Betty Thunder No. 1 to production test the Lansing "D" Zone and the Kansas City "J" Zone. Other potential Lansing/Kansas City Group pay zone's include the "C", "F" and "I" Zone's and should be tested through pipe prior to abandonment.

Respectfully Submitted,

Richard J. Hall

Richard J. Hall

Certified Petroleum Geologist No. 5820

Whitehall Exploration



QUALITY OILWELL CEMENTING, INC.

Phone 785-483-2025
Cell 785-324-1041

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Home Office P.O. Box 32 Russell, KS 67665

No. 4560

Date	10-3-10	C.Sect.	29	Twp.	9	Range	24	County	Graham	State	Ks	On Location		Finish	11:45PM
Lease	Betty Thunder			Well No.	1			Location	Wakeney, Ks - N to Redline Rd						
Contractor	W-W Rig #6														
Type Job	Production														
Hole Size	7 7/8"			T.D.	4180'			Owner	8-9 miles west to 190 Rd, 3/4 N, E/S						
Csg	5 1/2"			Depth	2213.52'			To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Tbg. Size				Depth				Charge To	H + M Petroleum						
Tool	DUTOO			Depth	2213.52'			Street							
Cement Left in Csg.				Shoe Joint				City	State						
Meas Line				Displace	52 1/2 Bbls			The above was done to satisfaction and supervision of owner agent or contractor.							
								Cement Amount Ordered	375 sx QMDC 4# F.S.						

EQUIPMENT

Pumptrk	5	No.	Cementor	Paul
Bulktrk	4	No.	Driver	Don
Bulktrk	p.u.	No.	Driver	Rick

500 gal mud	Clear 48
Common	375
Poz. Mix	
Gel.	

JOB SERVICES & REMARKS

Remarks:
 Rat Hole 30 sx QMDC 4# F.S.
 Mouse Hole N/A
 Centralizers
 Baskets
 D/V or Port Collar
 Drop Dart wait 10 min
 open tool, hook to mud pump, circulate thru
 Hook to pump truck and pump
 500 gal mud Clear 48, plug Rat
 hole, hook to casing mix
 345 sx QMDC 4# F.S. Shut down
 wash up pump lines Displace
 with 50 Bbls of freshwater
 Float held - closed tool
 Opened tool with 800 #PSI
 Lift pressure 750 PSI
 Landed plug to 1500#

Calcium
Hulls
Salt
Flowseal 93#
Kol-Seal
Mud CLR 48 500 gal
CFL-117 or GD110 CAF 38
Sand
Handling
Mileage

FLAT EQUIPMENT

Guide Shoe
Centralizer
Baskets
AFU Inserts
Float Shoe
Latch Down

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Signature: [Handwritten Signature]

Cement did Circulate

Pumptrk Charge: [Handwritten]
Mileage: [Handwritten]

Tax
Discount
Total Charge

QUALITY OIL WELL CEMENTING, INC.

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

KCC
JAN 24 2011
CRANFORD

Date	10-3-10	Sec.	29	Twp.	9	Range	24	County	Caraham	State	Ks	On Location		Finish	9:30 p.m
Lease	Betty Thander	Well No.	1	Location		Wakeneyks - N to Red Line Rd 2.9 west									
Contractor	W-W Road 6	Owner		to 170 Rd 3/4 N E/S											
Type Job	production	Bottom		To Quality Oilwell Cementing, Inc.											
Hole Size	7 7/8"	T.D.		4180'											
Csg.	5 1/2" New 15,500	Depth		4183.64'											
Tbg. Size		Depth		2213.52'											
Tool	DU Tool	Depth		22.89'											
Cement Left in Csg.	22.89'	Shoe Joint		22.89'											
Meas Line		Displace		97 1/2 BBLs											

You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Charge To **H/M Petroleum**

The above was done to satisfaction and supervision of owner agent or contractor.

EQUIPMENT

Pumptrk	5	No.	Cementer	Paul
			Helper	
Bulktrk	8	No.	Driver	Cisco
			Driver	
Bulktrk	p.u.	No.	Driver	Rat
			Driver	

Cement Amount Ordered **140 common: 10% Salt**
5% Gilsonite 500 gal. mud Clear 4/8
 Common **140**
 Poz. Mix
 Gel.

JOB SERVICES & REMARKS

Remarks:
 Rat Hole
 Mouse Hole
 Centralizers **1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21**
 Baskets **47 to 79 Jk**
 D/V or Port Collar **21#48 2213.52'**

Calcium
 Halls
 Salt **14**
 Flowseal
 Kot-Seal **700#**
 Mud CLR 48 **5.00 gal**
 CFL-117 or CD110 CAF 38
 Sand
 Handling **154**
 Mileage

pipe on bottom, break circulation
 as wait flow, use pump 500
 gal mud clear mix 140 common
 10% salt 5% Gilsonite, shut down
 released plug & wash pump & lines. Clean
 Displaced with **97 1/2 BBLs of H2O**

GUIDE SHOE
 CENTRALIZER
 BASKETS
 AFU Inserts
 Float Shoe
 Latch Down
 1 - Rotating Head
 1 - DU Tool w/ Latchdown Assy
 20' of Rotating Scratcher's
 Pumptrk Charge **17.5'**
 Mileage **6.5**

Lift pressure **700# PSD**
 Landed plug to **1500#**

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Signature _____

Tax
 Discount
 Total Charge