



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1095112
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

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
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

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.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1095112

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input 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

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				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

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 type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

September 28, 2012

Allen Bangert
Mai Oil Operations, Inc.
8411 PRESTON RD STE 800
DALLAS, TX 75225-5520

Re: ACO1
API 15-167-23803-00-00
Beisel 1
NW/4 Sec.15-14S-12W
Russell County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Allen Bangert

OPERATOR

Company: Mai Oil Operations, Inc.
 Address: 8411 Preston RD STE 800
 Dallas, TX 75225

Contact Geologist:
 Contact Phone Nbr: 214-219-8883
 Well Name: Beisel #1
 Location: 8 5/8" @ 344'
 Pool:
 State: Kansas, Russell Co.

API: 15-167-23803-00-00
 Field: Beisel
 Country: USA



Musgrove

**PETROLEUM
 CORPORATION**
 Claflin, Kansas

Scale 1:240 Imperial

Well Name: Beisel #1
 Surface Location: 8 5/8" @ 344'
 Bottom Location:
 API: 15-167-23803-00-00
 License Number:
 Spud Date: 6/6/2012 Time: 3:34 PM
 Region: N2-Nw-Sw-Nw Sec 15-14s-12w
 Drilling Completed: 6/10/2012 Time: 8:50 PM
 Surface Coordinates: 1,580' From North Line & 330' From West Line
 Bottom Hole Coordinates:
 Ground Elevation: 1782.00ft
 K.B. Elevation: 1790.00ft
 Logged Interval: 2150.00ft To: 3340.00ft
 Total Depth: 3340.00ft
 Formation: Lansing
 Drilling Fluid Type: Chemical mud displaced at 2082'

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude:
 N/S Co-ord: 1,580' From North Line
 E/W Co-ord: 330' From West Line
 Latitude:

LOGGED BY

Company: Musgrove Petroleum Corp.
 Address: 212 Main St.
 Claflin, KS 67525
 Phone Nbr: 620-546-3960
 Logged By: Geologist Name: Josh Austin

CONTRACTOR

Contractor: Southwind Drilling, Inc.
 Rig #: 3
 Rig Type:
 Spud Date: 6/6/2012 Time: 3:34 PM
 TD Date: 6/10/2012 Time: 8:50 PM
 Rig Release: Time:

ELEVATIONS

K.B. Elevation: 1790.00ft Ground Elevation: 1782.00ft


NOTES

On the basis of the positive drill stem test and reviewing the electric logs it was recommended by all parties involved to set 5 1/2" production casing at the rotary depth.

MAI Oil Operations, Inc.

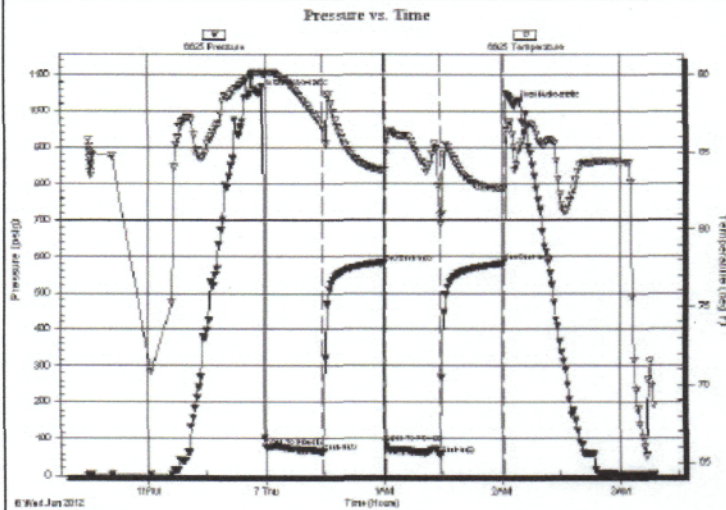
well comparison sheet

DRILLING WELL					COMPARISON WELL			
Beisel					Beisel "A" #8 owwo			
							Structural	
							Relationship	
1790 KB					1808 KB			
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log
Grand Haven	2236	-446	2232	-442				
Tarkio Lime	2310	-520	2309	-519				
Topeka	2584	-794	2580	-790	2596	-788	-6	-2
Heebner	2822	-1032	2820	-1030	2834	-1026	-6	-4
Toronto	2840	-1050	2839	-1049	2854	-1046	-4	-3
Douglas	2854	-1064	2855	-1065	2868	-1060	-4	-5
Lansing	2907	-1117	2906	-1116	2918	-1110	-7	-6
Base KC	3193	-1403	3193	-1403	3198	-1390	-13	-13
Conglomerate	3238	-1448	3230	-1440	3247	-1439	-9	-1
Arbuckle	3262	-1472	3262	-1472	3267	-1459	-13	-13
RTD	3340	-1550	3340	-1550	3275	-1467		
LTD	3340	-1550	3340	-1550				

 <p>TRILOBITE TESTING, INC</p>	DRILL STEM TEST REPORT	
	Mai Oil Operations Inc 8411 Preston Rd Ste 800 Dallas Texas 75225-5520 ATTN: Allen Bangert	15-14s-12w Russell Beisel #1 Job ticket: 4/16/ USI#: 1 Test Start: 2012.06.06 @ 22:30:26
GENERAL INFORMATION:		
Formation: Tarkio Sd Deviated: No Whipstock: ft (KB) Time Tool Opened: 00:00:21 Time Test Ended: 03:17:50	Test Type: Conventional Bottom Hole (Initial) Tester: Ray Schwager Unit No: 42	
Interval: 2240.00 ft (KB) To 2300.00 ft (KB) (TVD) Total Depth: 2300.00 ft (KB) (TVD) Hole Diameter: 7.85 inches Hole Condition: Fair	Reference Elevations: 1790.00 ft (KB) 1782.00 ft (CF) KB to GRVCF: 8.00 ft	
Serial #: 6625 Inside		

Press@RunDepth: 58.17 psig @ 2244.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.06.06 End Date: 2012.06.07 Last Calib.: 2012.06.07
 Start Time: 22:30:00 End Time: 03:17:24 Time On Btm: 2012.06.06 @ 23:57:25
 Time Off Btm: 2012.06.07 @ 02:05:55

TEST COMMENT: 30-IFP-strg bl GTS in 7min
 30-ISIP-no bl
 30-FFP-GTS
 30-FSIP-no bl



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1048.08	90.15	Initial Hydro-static
3	77.99	90.07	Open To Flow (1)
32	64.86	86.56	Shut-In(1)
63	582.99	83.83	End Shut-In(1)
64	88.32	84.87	Open To Flow (2)
92	58.17	80.40	Shut-In(2)
124	585.57	82.71	End Shut-In(2)
129	1016.20	85.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
55.00	SO&GCM 5%G2%O93%M	0.27
60.00	O&GCM 20%G15%O65%M	0.52

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	5.00	130.87
Last Gas Rate	0.50	5.00	130.87
Max. Gas Rate	0.50	7.00	144.36



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operations Inc
 8411 Preston Rd
 Ste 800
 Dallas Texas 75225-5520
 ATTN: Allen Bangert

15-14s-12w Russell
Beisel #1
 Job Ticket: 47168 DST#: 2
 Test Start: 2012.06.08 @ 11:20:39

GENERAL INFORMATION:

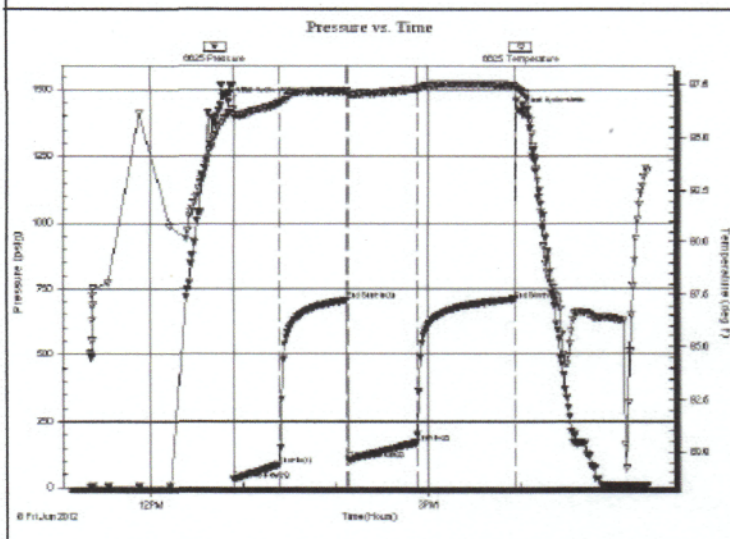
Formation: LKC D-G
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:53:34
 Time Test Ended: 17:22:03
 Interval: 2958.00 ft (KB) To 3028.00 ft (KB) (TVD)
 Total Depth: 3028.00 ft (KB) (TVD)
 Hole Diameter: 7.85 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ray Schwager
 Unit No: 42
 Reference Elevations: 1790.00 ft (KB)
 1782.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6625

Inside

Press@RunDepth: 170.80 psig @ 2962.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.06.08 End Date: 2012.06.08 Last Calib.: 2012.06.08
 Start Time: 11:20:39 End Time: 17:22:03 Time On Btm: 2012.06.08 @ 12:50:34
 Time Off Btm: 2012.06.08 @ 15:50:34

TEST COMMENT: 30-IFP-w k to strg bl in 12 min
 45-ISIP-no bl
 45-FFP-w k to strg in 4min
 60-FSIP-no bl




Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1453.76	96.13	Initial Hydro-static
3	31.06	96.06	Open To Flow (1)
33	86.67	96.62	Shut-In(1)
77	707.69	97.20	End Shut-In(1)
78	108.94	97.05	Open To Flow (2)
122	170.80	97.30	Shut-In(2)
186	709.86	97.47	End Shut-In(2)
188	1416.89	97.28	Final Hydro-static

Length (ft)	Description	Volume (bbl)
0.00	475'GIP	0.00
80.00	GM 15%G85%Mw /show of oil	0.85
240.00	Water	3.37

* Recovery from multiple tests

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



DRILL STEM TEST REPORT

Mai Oil Operations Inc 15-14s-12w Russell

8411 Preston Rd Beisel #1
 Ste 800
 Dallas Texas 75225-5520 Job Ticket: 47169 DST#: 3
 ATTN: Allen Bangert Test Start: 2012.06.09 @ 02:15:45

GENERAL INFORMATION:

Formation: LKC H-J
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:43:40
 Time Test Ended: 08:15:39

Interval: 3050.00 ft (KB) To 3127.00 ft (KB) (TVD)
 Total Depth: 3127.00 ft (KB) (TVD)
 Hole Diameter: 7.85 inches Hole Condition: Fair

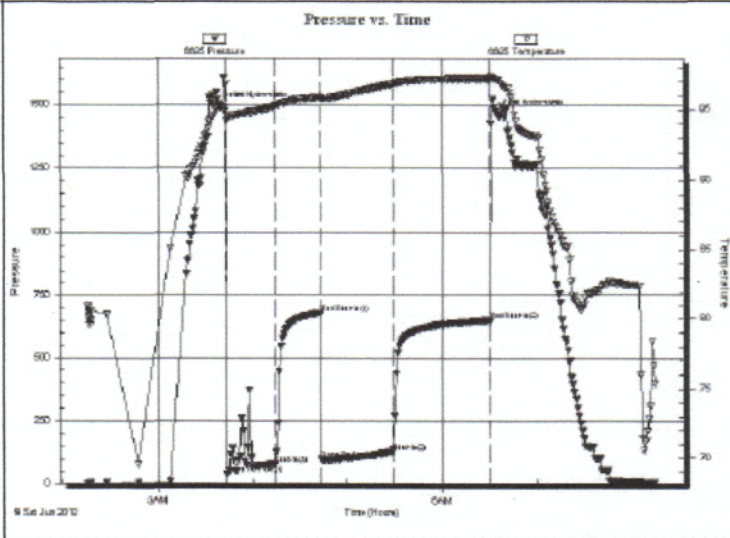
Test Type: Conventional Bottom Hole (Reset)
 Tester: Ray Schwager
 Unit No: 42

Reference Elevations: 1790.00 ft (KB)
 1782.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6625 Inside

Press@RunDepth: 126.23 psig @ 3060.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2012.06.09	End Date: 2012.06.09
Start Time: 02:15:45	End Time: 08:15:39
	Last Calib.: 2012.06.09
	Time On Btrn: 2012.06.09 @ 03:40:10
	Time Off Btrn: 2012.06.09 @ 06:34:39

TEST COMMENT: 30-IFP-w k to a gd bl 1/2"to 6"bl
 30-ISIP-no bl
 45-FFP-w k to a strg bl in 25 min



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1492.14	95.15	Initial Hydro-static
4	38.12	94.22	Open To Flow (1)
34	78.66	95.23	Shut-In(1)
63	679.94	95.89	End Shut-In(1)
64	97.53	95.80	Open To Flow (2)
109	126.23	96.82	Shut-In(2)
171	649.75	97.22	End Shut-In(2)
175	1466.84	97.18	Final Hydro-static

Length (ft)	Description	Volume (bbl)
0.00	325'GIP	0.00
245.00	MGO 20%G10%M70%O	3.16
45.00	O&GCM 5%G15%O80%M	0.63

* Recovery from multiple tests

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

DRILL STEM TEST REPORT

15-14s-12w Russell

Beisel #1

Job Ticket: 4/1/U USI#: 4

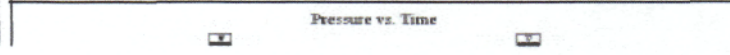
Test Start: 2012.06.10 @ 05:50:53

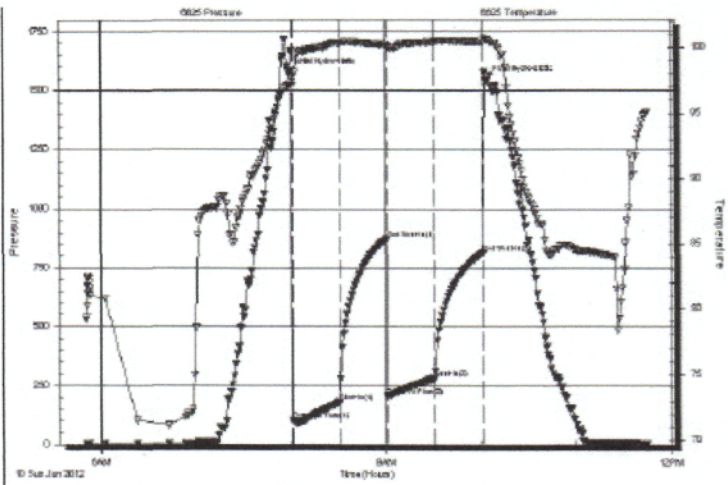
GENERAL INFORMATION:

Formation: Arbuckle	Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock ft (KB)	Tester: Ray Schwager
Time Tool Opened: 08:01:18	Unit No: 42
Time Test Ended: 11:44:47	Reference Elevations: 1790.00 ft (KB)
Interval: 3210.00 ft (KB) To 3275.00 ft (KB) (TVD)	1782.00 ft (CF)
Total Depth: 3275.00 ft (KB) (TVD)	KB to GR/CF: 8.00 ft
Hole Diameter: 7.85 inches Hole Condition: Fair	

Serial #: 6625 Inside	Capacity: 8000.00 psig
Press@RunDepth: 282.49 psig @ 3214.00 ft (KB)	Last Calib.: 2012.06.10
Start Date: 2012.06.10 End Date: 2012.06.10	Time On Btm: 2012.06.10 @ 07:58:48
Start Time: 05:50:53 End Time: 11:44:47	Time Off Btm: 2012.06.10 @ 10:03:48

TEST COMMENT: 30-IFP-w k to strg in 3 min
30-ISIP-no bl
30-FFP-w k to strg in 10 min
30-FSIP-no bl





Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1573.12	97.12	Initial Hydro-static
3	104.77	97.15	Open To Flow (1)
32	180.83	100.34	Shut-In(1)
62	871.77	100.23	End Shut-In(1)
62	206.08	100.09	Open To Flow (2)
92	282.49	100.46	Shut-In(2)
123	815.59	100.46	End Shut-In(2)
125	1545.02	100.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	SOCMW 5%O5%M90%W	2.55
120.00	OCMW 20%O20%M60%W	1.68
180.00	O&GCWM 5%G15%O20%W60%W	2.52
30.00	OCM 15%O85%M	0.42

* Recovery from multiple tests

Gas Rates

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

ROCK TYPES

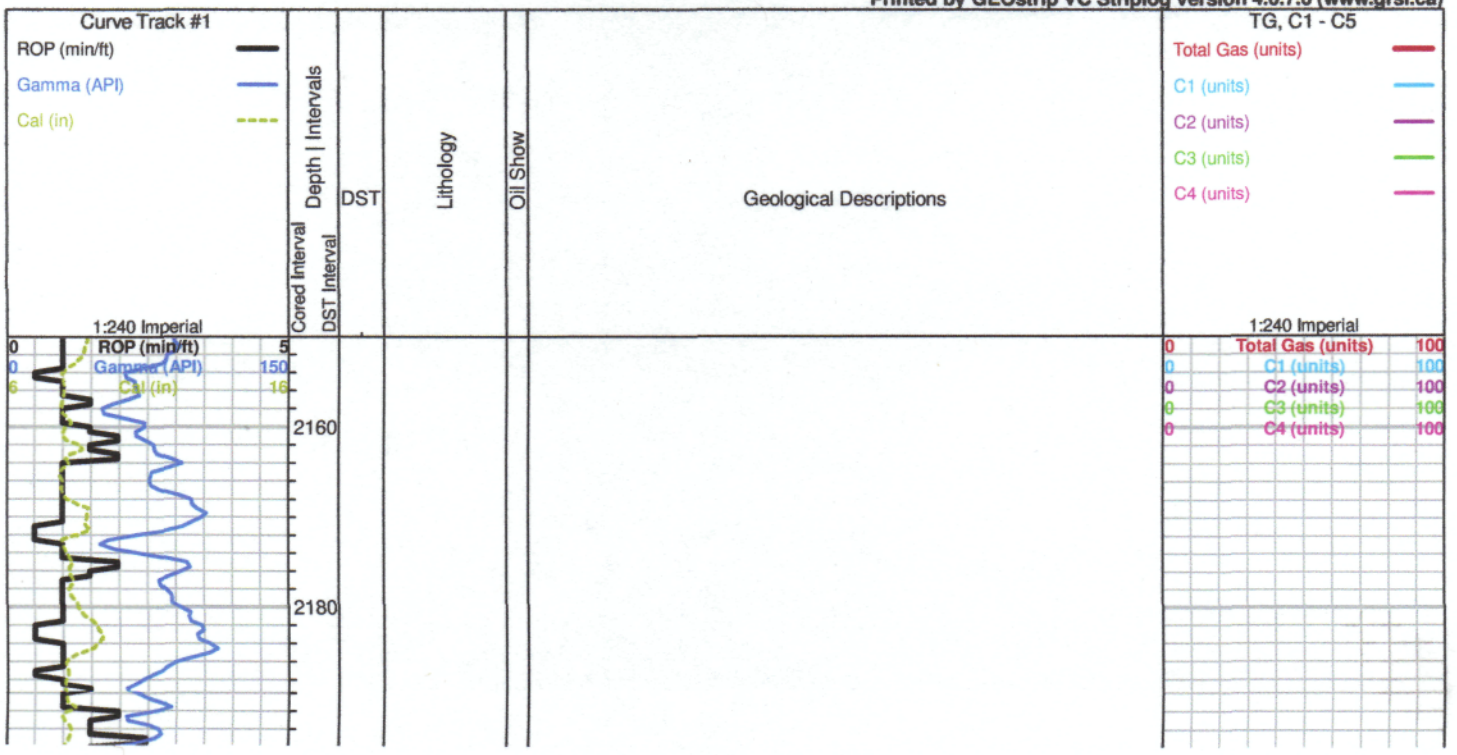
Chtcong
 Dolsec
 Lmst fw7> shale, gry
 Carbon Sh
 Ss

OTHER SYMBOLS

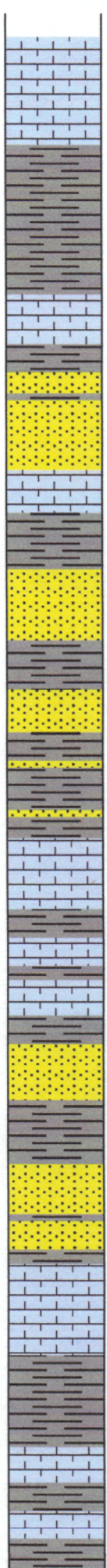
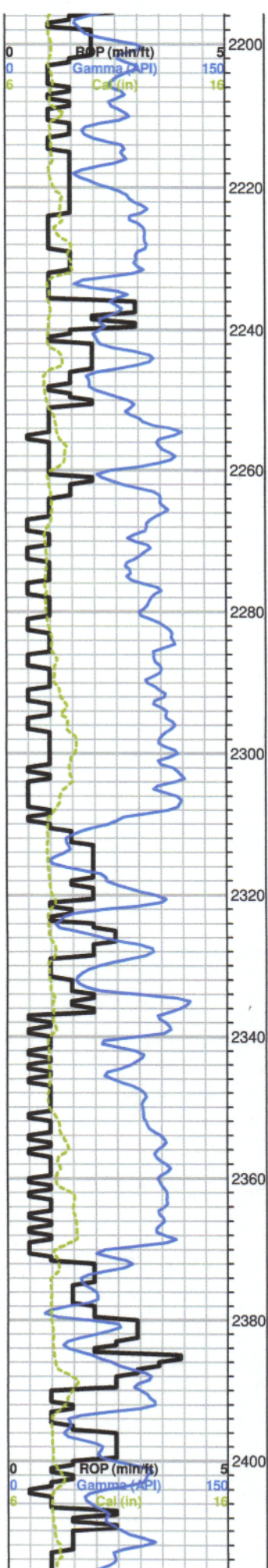
DST

- DST Int
- DST alt
- Core
- tail pipe

Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)



TG, C1 - C5	
Total Gas (units)	100
C1 (units)	100
C2 (units)	100
C3 (units)	100
C4 (units)	100



Limestone; cream-white, slightly fossiliferous, dolomitic in part, vuggy type porosity

Shale; grey-green, greyish green soft silty

GRAND HAVEN 2236 (-446)

Limestone; tan-buff, fossiliferous, dense

Sand; grey, very fine grained, micaceous, brown-grey stain, spotty SFO, faint odor, trace gas bubbles

DOVER 2260

Shale; grey-greyish green

Sand; grey-lt grey, very fine grained, micaceous in part, brown stain, spotty SFO, faint-fair odor, few gas bubbles

Sand and Shale as above

TARKIO LIME 2310 (-520)

Limestone; cream-tan-buff, fine-medium xln, fossiliferous-highly oolitic in part, dense

Sand; grey-greyish green, very fine grained, sub angular, sub rounded, poor visible porosity, micaceous, dense

ELMONT

Limestone; cream-tan, fine xln, chalky in part, slightly fossiliferous, cherty, no shows

Shale; grey-green

Shale and Limestone; as above

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100

KB 1790

DST #1 2240-2300
30-30-30-30

Blow; Strong GTS in 7 minutes
no blow back
Final; GTS
no blow back

Gas Gauged as followed:

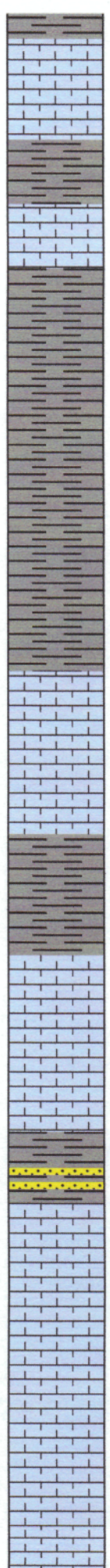
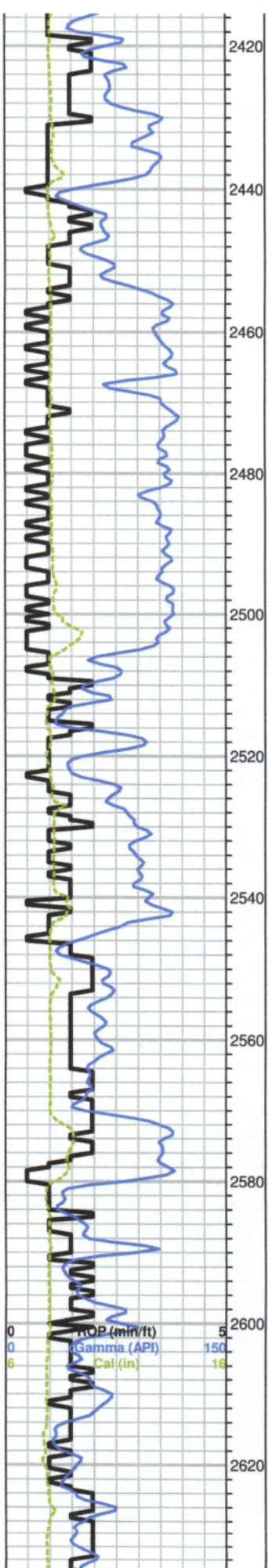
1st flow	CF/D
10min	130,866
20min	130,866
30min	130,866

2nd flow	CF/D
10min	144,358
20min	130,866
30min	130,866

Recovery;
55' SO&GCM
(5%g 2%o 93%m)
60' O&GCM
(20%g 15%o 65%m)

Pressures;
ISIP 582
FSIP 585
IFP 77-64
FFP 88-58
HSH 1048-1016

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100



Limestone; grey-cream, fine xln, chalky, dense

Shale; grey-marroon-green

Shale; grey-greyish green, micaceous in part, silty

Shale; as above

Limestone; cream, fine xln, chalky, granular in part, shaley, no shows

Shale; grey-dark grey shale, soft silty in part

Limestone; cream, chalky, dense

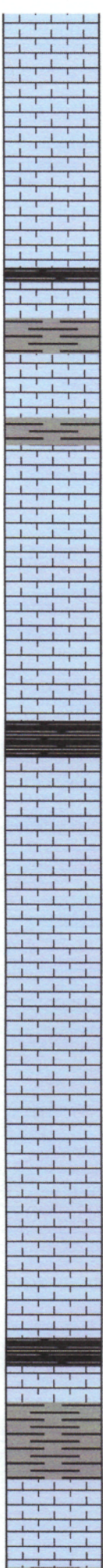
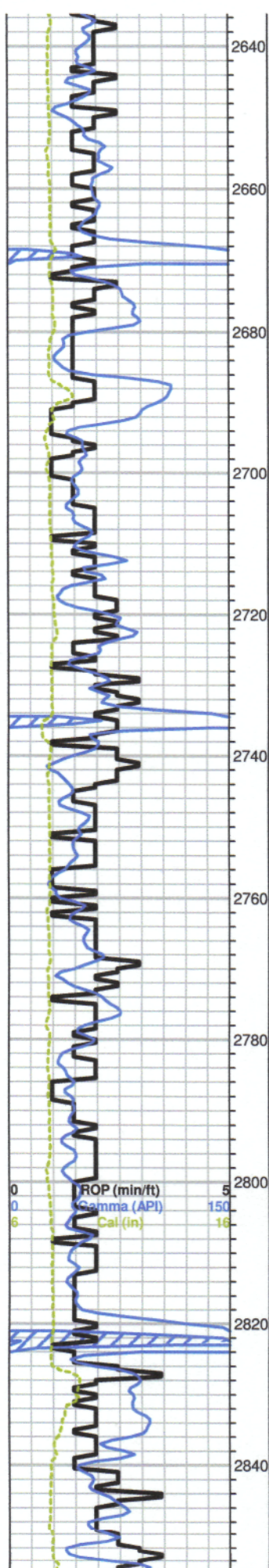
Sand ; grey, fine grained, micaceous, shaley in part

TOPEKA 2584 (-794)

Limestone; grey, fine xln, dense, slightly fossiliferous, dense, cherty, poor visible porosity, no shows

Limestone; as above plus Shale; variety of colors

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100



Limestone; buff-tan, fine xln, chalky in part, dense, poor visible porosity, cherty in part

black carboniferous shale

Shale; grey-green, silty

Shale; grey-green

Limestone; cream-grey-white, fine xln, chalky, fossiliferous in part, few loose fossil fragments, no shows

plus grey, boney Chert

black carboniferous shale

Limestone; cream-lt. grey, fine xln, chalky, mottled, poor visible porosity

Limestone; cream, fine xln, granular in part, sparry calcite, chalky in part

Limestone; cream-lt. grey, white, fine xln, sucrosic, dolomitic, few scattered porosity, brown stain, spotty SFO, very faint odor

HEEBNER 2822 (-1032)
black carboniferous shale

grey-green-maroon, Shale

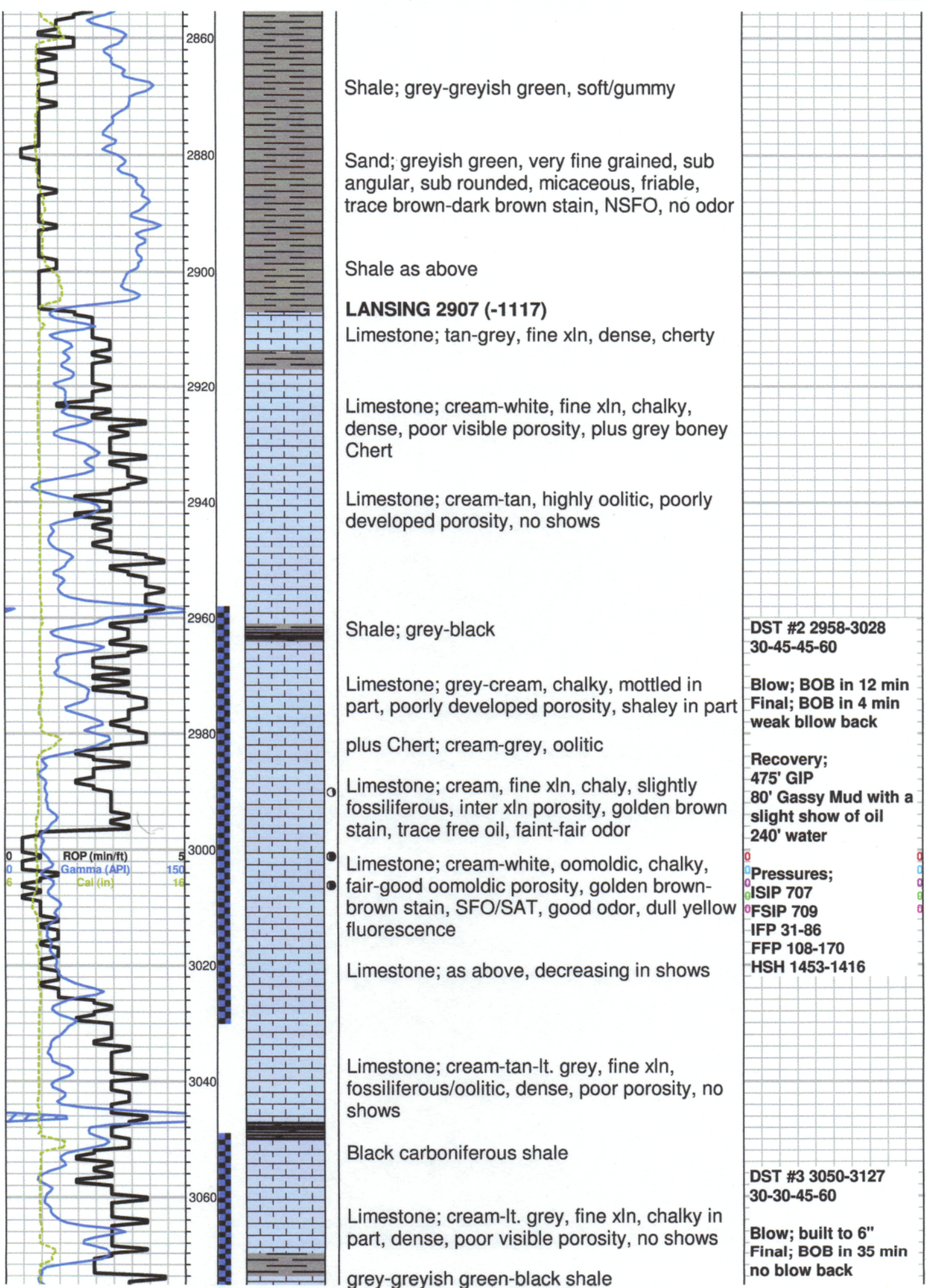
TORONTO 2840 (-1050)

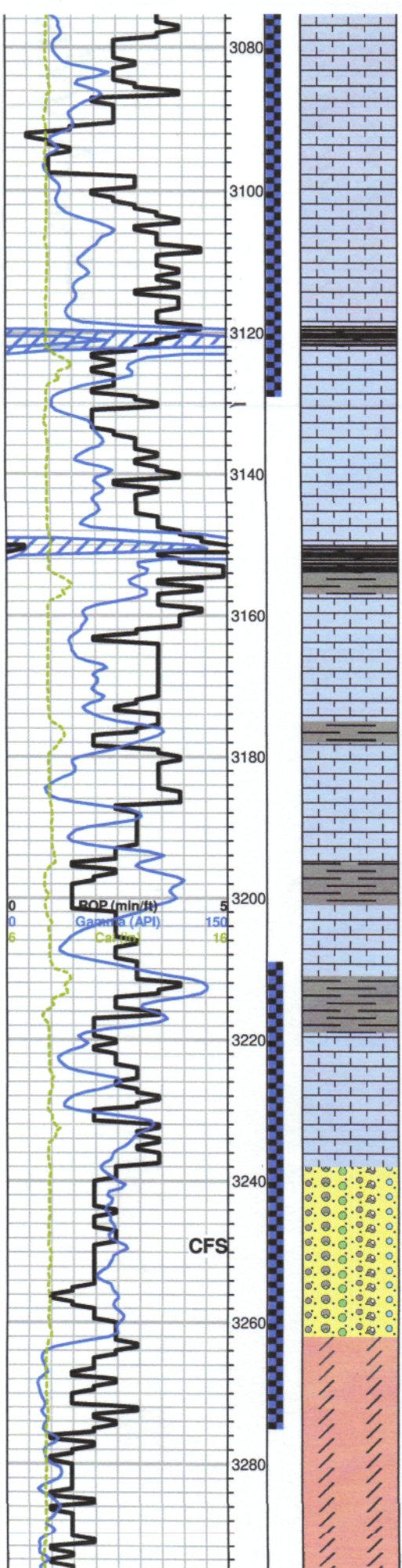
Limestone; cream, chalky, fine xln, dense

DOUGLAS 2854 (-1054)

KB 1790

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100





Limestone; cream, highly oolitic, chalky, fair-good inter xln-fossil cast type porosity, brown stain, SFO, faint-fair odor

Limestone; grey-cream, fine xln, oomoldic in part, fair vuggy-oomoldic porosity, grey-brown stain, trace free oil, faint odor

Limestone; cream-buff, fine xln, dense, slightly fossiliferous, few cherty pieces, poor porosity
black carboniferous shale

Limestone; cream-buff, oolitic, chalky, scattered porosity, trace brown stain, questionable trace free oil, no odor

black carboniferous shale

Limestone; cream-lt. grey, fine xln, chalky, fossiliferous in part, poor visible porosity, slightly chert

Limestone; as above plus grey Chert

BASE KANSAS CITY 3193 (-1403)

Shale; grey-green

Shale; grey-green-maroon

Limestone; cream-tan, fine xln, dense, cherty

CONGLOMERATE 3238 (-1448)

Chert; variety of colors, oolitic, boney

Chert as above

ARBUCKLE 3262 (-1472)

Dolomite; cream-white, medium-coarse xln, scattered inter xln porosity, brown-black stain, SFO, faint-fair odor

Dolomite; cream-lt. grey, fine-medium xln, scattered inter xln porosity, spotty black-dark brown stain, slightly SFO, very faint odor

Recovery;
325' GIP
45' O&GCM
(5%g 15%o 80%m)
245' MGO
(20%g 70%o 10%m)

Pressure;
ISIP 679
FSIP 649
IFP 38-78
FFP 97-126
HSH 1492-1466

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100

DST #4 3210-3275
30-30-30-30

Blow; BOB in 3 min
Final; BOB in 10 min
no blow back

Recovery;
30' OCM (15%o 85%m)
180' O&GCWM
(5%g 15%o 20%w 60%
m)
120' OCMW
(20%o 60%w 20%m)
240' SOCMW
(5%o 90%w 5%m)

Pressures;
ISIP 871
FSIP 815
IFP 104-180
FFP 206-282
HSH 1573-1545

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

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

No. 437

Cell 785-324-1041

Date	6-4-12	Sec.	5	Twp.	24	Range	12	County	Russell	State	Ks	On Location		Finish	10:00 AM				
Lease	Beisel		Well No.	1		Location		Russell, Ks - E on Hwy 40 to 195th Rd											
Contractor	Southwind #3				Owner		IS IF S/into												
Type Job	Surface				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.														
Hole Size	12 1/4"		T.D.	344'		Charge To		Main oil operations											
Csg.	8 7/8"		Depth	344'		Street													
Tbg. Size			Depth			City		State											
Tool			Depth			The above was done to satisfaction and supervision of owner agent or contractor.													
Cement Left in Csg.	15'		Shoe Joint	15'		Cement Amount Ordered		180 sx 60/40 3% CC											
Meas Line			Displace	20 3/4 BLS															
EQUIPMENT																			
Pumptrk	9	No.	Cementer	Matt		2 1/2 Gal													
			Helper			Common		108											
Bulktrk	8	No.	Driver	Levi		Poz. Mix		72											
			Driver			Gel.		3											
Bulktrk	p.u.	No.	Driver	Rick		Calcium		7											
			Driver																
JOB SERVICES & REMARKS																			
Remarks:												Hulls							
Rat Hole												Salt							
Mouse Hole												Flowseal							
Centralizers												Kol-Seal							
Baskets												Mud CLR 48							
DV or Port Collar												CFL-117 or CD110 CAF 38							
Cement did Circulate.												Sand							
												Handling				190			
												Mileage							
QUALITY OILWELL CEMENTING												FLOAT EQUIPMENT							
												Guide Shoe							
												Centralizer							
												Baskets							
												AFL Inserts							
												Float Shoe							
												Latch Down							
												1" wooden plug							
												Pumptrk Charge				Surface			
												Mileage				6			
												Tax							
												Discount							
												Total Charge							
X Signature												Guy Hinn							

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 441

Date	6-11-12	Sec.	5	Twp.	14	Range	12	County	Russell	State	KS	On Location		Finish	6:00 AM
Lease	Beisel			Well No.	1			Location	Bunkeshill BLK top + Hwy 40, 2E to 195 th						
Contractor	Southwind #3							Owner	RD, 1S, 1E, S1/4						
Type Job	Production							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.							
Hole Size	7 7/8"			T.D.	3340'			Charge To	Main oil operations						
Csg.	5 1/2" 14# New			Depth	3342'			Street							
Tbg. Size				Depth				City	State						
Tool				Depth				The above was done to satisfaction and supervision of owner agent or contractor.							
Cement Left in Ceg.				Shoe Joint	19.75'			Cement Amount Ordered	150sx60/40 18% Salt 2% Gel 1/4# F.S.						
Meas Line				Displace	81 BLS			Cement Amount Ordered	100sx60/40 10% Salt 2% Gel 1/4# F.S. 1000 gal mud Clear						
EQUIPMENT															
Pumptrk	5	No.		Cementer	Brett Rick			Common							
Bulktrk	8	No.		Driver	Lonnie			Poz. Mix							
Bulktrk	10	No.		Driver	Brian			Gal.							
JOB SERVICES & REMARKS								Calcium							
Remarks:	Pipe on bottom, break Circ.														
Rat Hole	pump 1000 gal mud Clear														
Mouse Hole	48, plug Rathole w/30sx														
Centralizers	plug mouse hole w/30sx														
Baskets	Cement 5 1/2" casing w/100														
D/V or Port Collar	5x60/40 18% Salt 2% Gel														
	1/4# F.S., 100sx60/40 10% Salt 2% Gel 1/4#														
	F.S., shut down wash pump + line														
	Released plug + Displaced with														
	81 BLS of water. Released +														
	held.														
	Lift pressure 800 #														
	Load plug to 1500 #														
QUALITY OILWELL CEMENTING								FLOAT EQUIPMENT							
								Guide Shoe							
								Centralizer	14 turbo's						
								Baskets	1 weatherford						
								AFU Inserts							
								Float Shoe							
								Latch Down							
								Pumptrk Charge							
								Mileage							
Signature: <i>Allen Bangat</i>								Tax							
								Discount							
								Total Charge							