



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1189789
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: _____

1189789

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: Yes No

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> _____					
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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Form	ACO1 - Well Completion
Operator	Rama Operating Co., Inc.
Well Name	Beran 1-10
Doc ID	1189789

Tops

Name	Top	Datum
Heebner	2873	-1051
Toronto	2888	-1066
Douglas	2906	-1084
Blown Lime	2964	-1142
Lansing	2974	-1152
Base KC	3236	-1414
Gorham SS	3272	-1450
Regan	3291	-1469
RTD	3375	-1553



Joshua R. Austin

Petroleum Geologist

report for

RAMA Operating CO., Inc



COMPANY: RAMA Operating Company, Inc.

LEASE: Beran #1-10

FIELD: Hall-Gurney

LOCATION: Se-Nw-Nw-Sw (2300' FSL & 420' FWL)

SEC: 10 TWSP: 15s RGE: 12w

COUNTY: Russell STATE: Kansas

KB: 1822' GL: 1809'

API # 15-167-23949-00-00

CONTRACTOR: Sterling Drilling (rig #5)

Spud: 2/12/2014 Comp: 2/17/2014

RTD: 3375' LTD: 3374'

Mud Up: 2400' Type Mud: Chemical was displaced

Samples Saved From: 2700' to RTD
 Drilling Time Kept From: 2700' to RTD
 Samples Examined From: 2700' to RTD
 Geological Supervision From: 2900' to RTD
 Geologist on Well: Josh Austin

Surface Casing: 8 5/8" @729'
 Production Casing:

Electronic Surveys: By Pioneer Energy Services

NOTES

On the basis of the poor results on the drill stem test and after reviewing the electric logs, it was recommended by all parties involved, to plug and abandon the Beran #1-10 at the rotary total depth 3375' (-1553).

RAMA Operating Co., Inc.

well comparison sheet

DRILLING WELL

COMPARISON WELL

COMPARISON WELL

Beran 1-10

LHG #2

LHG #3

Formation	1822 KB				1812 KB				Structural Relationship		1821 KB		Structural Relationship	
	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log		
Anyhidrite	727	1095			720	1092	-3			728	1093	-2		
Heebner	2876	-1054	2873	-1051	2866	-1054	0	3		2882	-1061	7	10	
Toronto	2893	-1071	2888	-1066	2882	-1070	-1	4		2898	-1077	6	11	
Douglas	2909	-1087	2906	-1084	2891	-1079	-8	-5		2915	-1094	7	10	
Brown Lime	2967	-1145	2964	-1142	2958	-1146	1	4		2976	-1155	10	13	
Lansing	2979	-1157	2974	-1152	2968	-1156	-1	4		2988	-1167	10	15	
Base KC	3240	-1418	3236	-1414	3229	-1417	-1	3		3240	-1419	1	5	
Gorham SS	3275	-1453	3272	-1450	3265	-1453	0	3						
Arbuckle										3258	-1437			
Reagan	3297	-1475	3291	-1469	3281									
Total Depth	3375	-1553	3374	-1552	3310	-1498				3343	-1522			



DIAMOND TESTING

P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313

TIME ON: 04:02

TIME OFF: 10:46

DRILL-STEM TEST TICKET

FILE: Beran # 1-10 Dst 1

Company Rama OP. Co. Inc Lease & Well No. Beran # 1-10
 Contractor Sterling Drilling Rig 5 Charge to Rama OP. CO. Inc
 Elevation KB 1822 GL 1809 Formation Lansing E-F Effective Pay -- Ft. Ticket No. RR003
 Date 02/16/2014 Sec. 10 Twp. 15 S Range 12 W County Russell State KANSAS
 Test Approved By Josh Austin Diamond Representative Ricky Ray

Formation Test No. 1 Interval Tested from 3033 ft. to 3053 ft. Total Depth 3053 ft.

Packer Depth 3028 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.

Packer Depth 3033 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3021 ft. Recorder Number 5515 Cap. 5,000 P.S.I.

Bottom Recorder Depth (Outside) 3035 ft. Recorder Number 5586 Cap. 5,000 P.S.I.

Below Straddle Recorder Depth -- ft. Recorder Number -- Cap. -- P.S.I.

Mud Type Chem Viscosity 80 Drill Collar Length 330 ft. I.D. 2 1/4 in.

Weight 8.9 Water Loss 8.8 cc. Weight Pipe Length -- ft. I.D. 2 7/8 in.

Chlorides 3000 P.P.M. Drill Pipe Length 2677 ft. I.D. 3 1/2 in.

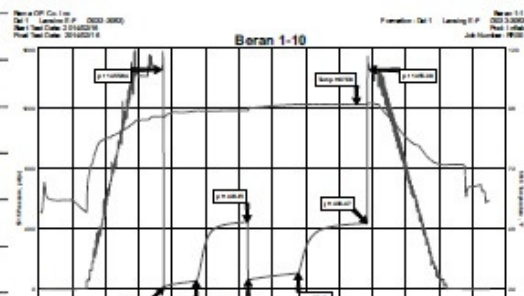
Jars: Make STERLING Serial Number NA Test Tool Length 26 ft. Tool Size 3 1/2-IF in.

Did Well Flow? NO Reversed Out NO Anchor Length 20 ft. Size 4 1/2-FH in.

Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: 1/2" Blow-BOB 16 mins 1/4" BB

2nd Open: 1/4" Blow-BOB 18 mins 3" BB

Recovered 242 ft. of GIPRecovered 10 ft. of HMCO 58%O 42%MRecovered 93 ft. of SLWCOCM 25%O 8%W 67%MRecovered 96 ft. of SLMCSLOCW 8%O 89%W 3%MRecovered 199 ft. of Total FluidRecovered -- ft. of PH: 7 RW: .22 @ 48 DegRemarks: Chlorides: 42,000ppm

Tool Sample: 10% O 89% W 1%M



Time Set Packer(s) 5:53 am ^{A.M.}/_{P.M.} Time Started Off Bottom 8:53 am ^{A.M.}/_{P.M.} Maximum Temperature 98

Initial Hydrostatic Pressure..... (A) 1456 P.S.I.

Initial Flow Period..... Minutes 30 (B) 11 P.S.I. to (C) 56 P.S.I.

Initial Closed In Period..... Minutes 45 (D) 447 P.S.I.

Final Flow Period..... Minutes 45 (E) 64 P.S.I. to (F) 107 P.S.I.

Final Closed In Period..... Minutes 60 (G) 438 P.S.I.

Final Hydrostatic Pressure..... (H) 1455 P.S.I.



DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: Beran # 1-10 Dst 2

TIME ON: 03:36
 TIME OFF: 12:08

Company Rama OP. Co. Inc Lease & Well No. Beran # 1-10
 Contractor Sterling Drilling Rig 5 Charge to Rama OP. CO. Inc
 Elevation KB 1822 GL 1809 Formation Gorham Sand Effective Pay -- Ft. Ticket No. RR004
 Date 02/17/2014 Sec. 10 Twp. 15 S Range 12 W County Russell State KANSAS
 Test Approved By Josh Austin Diamond Representative Ricky Ray

Formation Test No. 2 Interval Tested from 3249 ft. to 3281 ft. Total Depth 3281 ft.
 Packer Depth 3244 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.
 Packer Depth 3249 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.

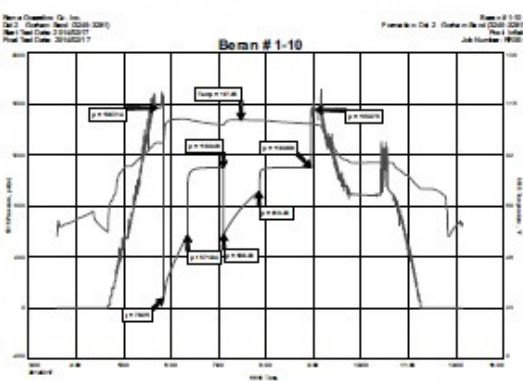
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3230 ft. Recorder Number 5515 Cap. 5,000 P.S.I.
 Bottom Recorder Depth (Outside) 3249 ft. Recorder Number 5586 Cap. 5,000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chem Viscosity 55 Drill Collar Length 390 ft. I.D. 2 1/4 in.
 Weight 9.3 Water Loss 8.4 cc. Weight Pipe Length -- ft. I.D. 2 7/8 in.
 Chlorides 3000 P.P.M. Drill Pipe Length 2826 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number NA Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? NO Reversed Out YES Anchor Length 32 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: 1/4" Blow-BOB 2" mins NOBB
 2nd Open: 1/2" Blow-BOB 1-3/4 mins NOBB

Recovered 171 ft. of MCW 77%W 23%M
 Recovered 252 ft. of SLMCW 99%W 1%M
 Recovered 1455 ft. of SLMCW 99%W 1%M (Cir to pit)
 Recovered 120 ft. of SLMCW 99%W 1%M
 Recovered 1998 ft. of Total Fluid
 Recovered _____ ft. of Ph: 7 RW .6 @ 58 Deg
 Remarks: Chlorides 13,000ppm










Tool Sample: 97%W 3%M

Time Set Packer(s) 5.51 A.M. P.M. Time Started Off Bottom 8.51 A.M. P.M. Maximum Temperature 108

Initial Hydrostatic Pressure..... (A) 1567 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 79 P.S.I. to (C) 572 P.S.I.
 Initial Closed In Period..... Minutes 45 (D) 1102 P.S.I.
 Final Flow Period..... Minutes 45 (E) 580 P.S.I. to (F) 913 P.S.I.
 Final Closed In Period..... Minutes 60 (G) 1103 P.S.I.
 Final Hydrostatic Pressure..... (H) 1553 P.S.I.

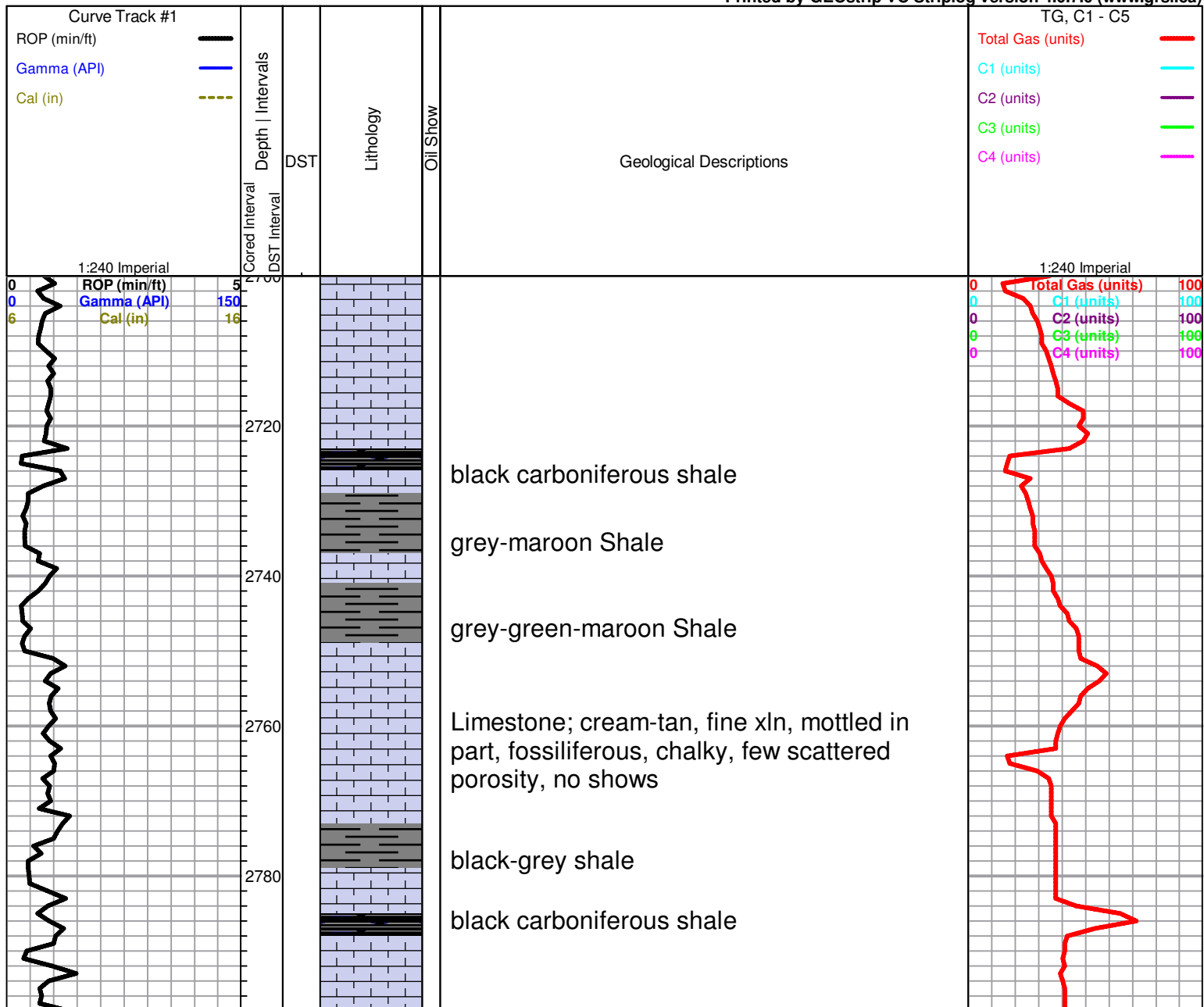
ROCK TYPES

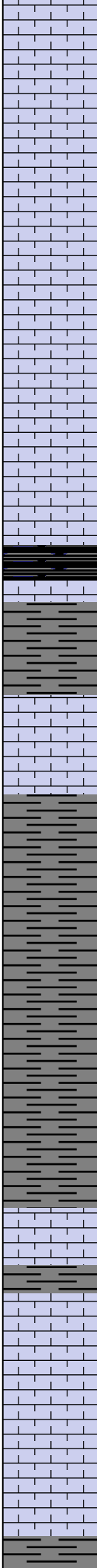
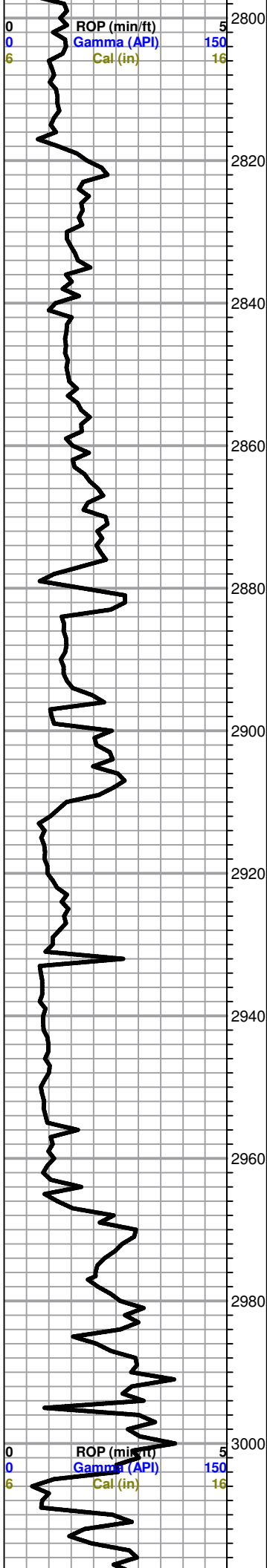
 Congl
  Lmst fw7>
 Dolsec
  shale, grn
  shale, gry
  Ss
 Carbon Sh

OTHER SYMBOLS

DST
 DST Int
 DST alt
 Core
 tail pipe

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





Limestone; cream-buff, fine xln, chalky, slightly fossiliferous, mottled in part, poor visible porosity, few sparry calcite, no shows

Limestone; cream-tan-buff, fine-medium xln, slightly sucrosic, chalky, dolomitic in part, poorly deviated porosity, spotty brown stain, trace gas bubbles, questionable odor

Limestone; cream, tan, fine xln, dense, fossiliferous in part, plus cream-lt. tan Chert

HEEBNER 2876 (-1054)
Black Carboniferous Shale

Shale; grey-greyish green

TORONTO 2893 (-1071)

Limestone; cream-grey, fine xln, fossiliferous, dense, no shows

DOUGLAS 2909 (-1087)

Shale; grey-greyish green, soft/ gummy

Siltstone; greyish green, very fine grained, micaceous, plus Shale; grey-green, few micaceous pieces, soft/gummy

Siltstone as above plus Sand; grey-greyish green, very fine grained, sub angular, micaceous, silty, no shows, plus grey-green, Shale

BROWN LIME 2967 (-1145)

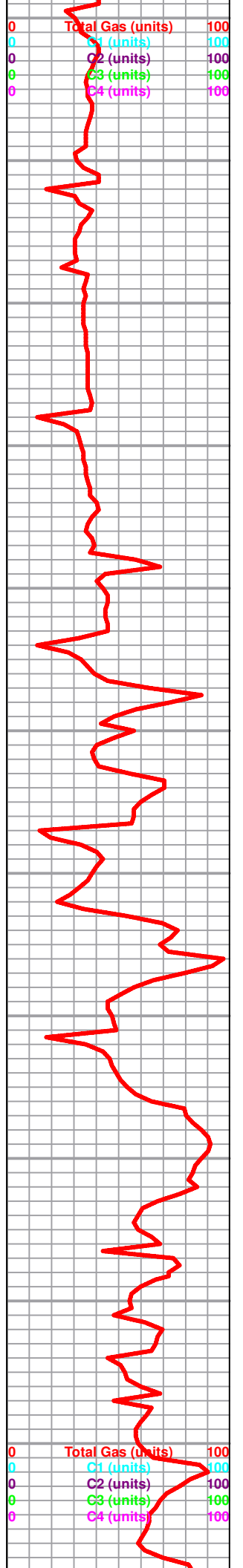
Limestone; tan-cream, fine xln, dense, fossiliferous, cherty

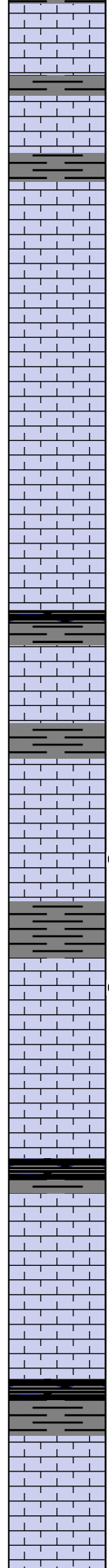
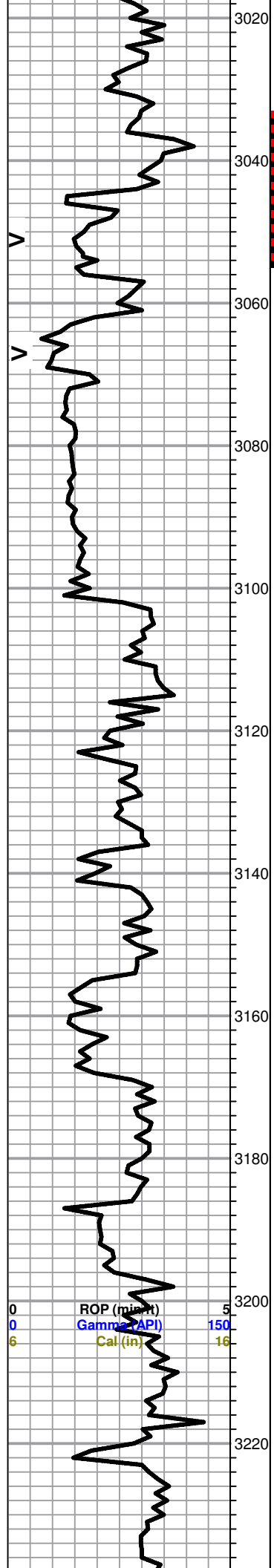
LANSING 2979 (-1157)

Trace Limestone; oomoldic, tan, fair oomoldic porosity, brown stain, SFO, fair odor

Limestone; cream-grey, fine xln, chalky, few scattered porosity, trace golden brown stain, NSFO, very faint odor

Limestone; as above, oomoldic porosity, trace lt. FO, no odor, plus white Chalk





Limestone; cream-tan, oomoldic, chalk in part, fair-good oomoldic porosity, trace brown stain, NSFO, no odor

Limestone; grey-cream, fine xln, dense, chertv grey shale

Limestone; cream-tan, fossiliferous, fair inter xln-poorly developed fossil cast type porosity, golden brown stain, SFO, good odor

Limestone; cream, oomoldic, chalky, good oomoldic porosity, trace brown stain, lt. SFO, "sulfur" odor. Plus cream-orange Chert, oolitic

Limestone; as above, good oomoldic porosity (barren) Chert; as above

black carboniferous shale, plus grey-green shale

Limestone; cream-grey, fine xln, chalky in part, oolitic, dense, poor porosity, no shows

Limestone; cream-tan, finely oolitic, trace vuggy porosity, dense, "tight", brown stain, SFO, faint-fair odor

Shale; grey-maroon-green

Limestone; tan-cream, oomoldic, chalky in part, good oomoldic porosity, trace brown stain, trace spotty free oil, mostly barren, very faint odor

Limestone; cream, fine xln, chalky, dense, slightly fossiliferous, no shows

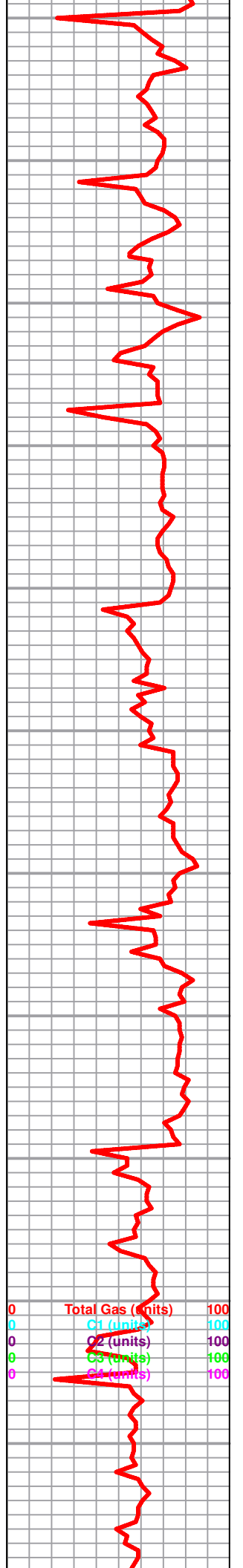
black carboniferous shale

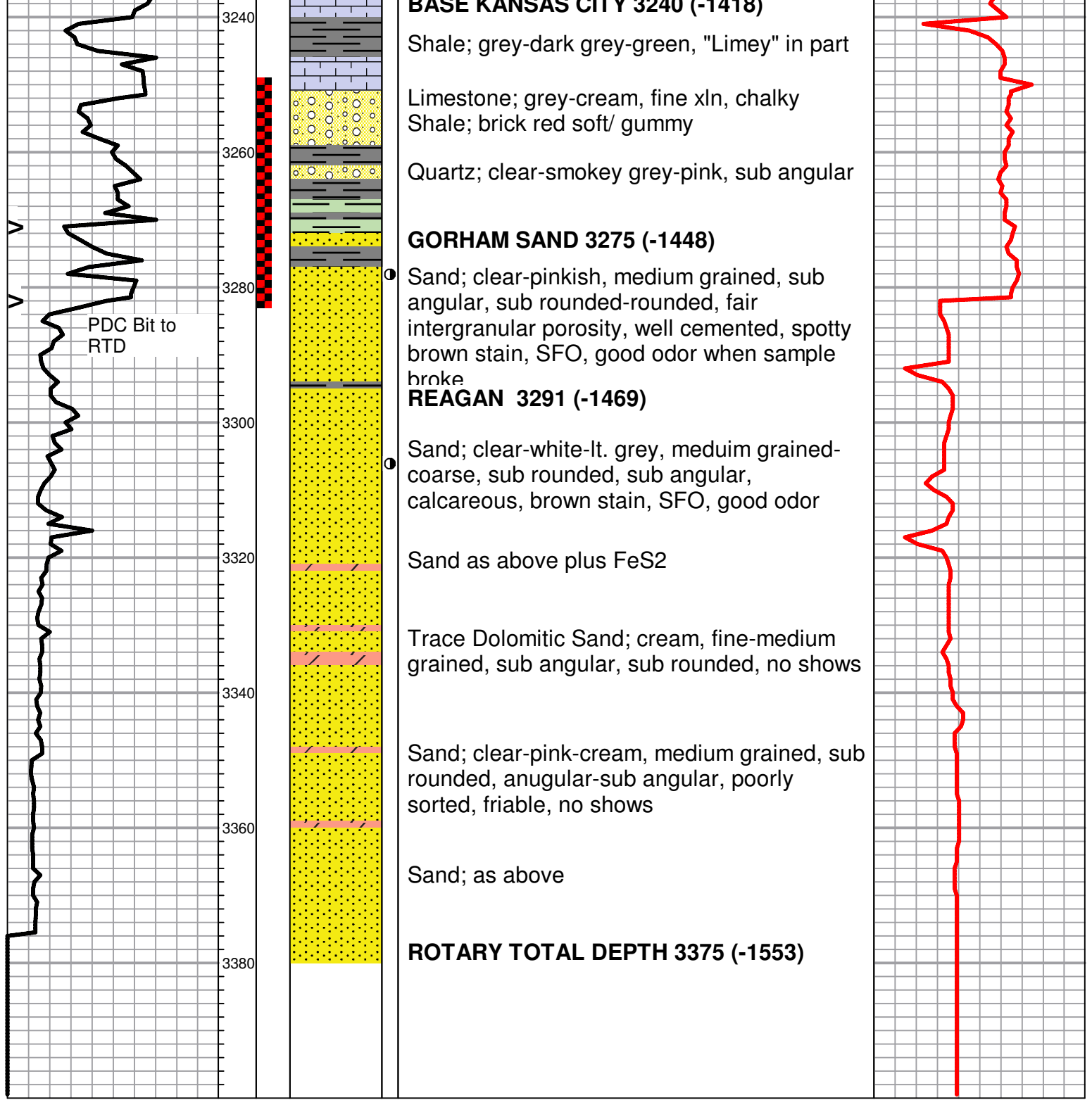
Limestone; lt. grey-cream, fine xln, chalky, poor porosity, no shows, plus lt. grey boney oolitic, Chert

black carboniferous shale plus grey-dark grey Shale

Limestone; buff-tan, fossiliferous in part, dense, slightly cherty, no shows

BASE KANSAS CITY 2240 (1410)





Customer Rama Operating Co., Inc.	Lease No. TNC	Date 2-13-14	
Lease Beran	Well # 1-10		
Field Order # 9866	Station Pratt, Kansas	Casing 8 7/8 23	Depth 735 Ft.
Type Job C.N.W. - Surface	Formation	County Russell	State Kansas
		Legal Description 10-155-12W	

PIPE DATA		PERFORATING DATA		MATERIAL USED		TREATMENT RESUME	
Casing Size 8 7/8 23 Lb./Ft.	Tubing Size 2 3/8 11.3 Lb./Ft.	Shots/Ft 170	Acid sacks A-con with 38 Calcium Chloride, 25 Lb./ST cell flake	Rate Max. 2.4 CU.FT./ST.	Press 7 CU.FT./ST.	ISIP 5 Min.	
Depth 735 Feet	Depth	From	To 12 Lb./Gal, 14.49 Gal.	Min Total Gel, 29 Calcium Chloride, 25 Lb./ST. Cell		10 Min.	
Volume 47 Bbl.	Volume	From 150 sacks 60/40 Poz with 29	Gal, 5.18 Gal.	Avg 1.2 CU.FT./ST.		15 Min.	
Max Press 400 PSI	Max Press	From	To 14.81 Gal, 5.18 Gal.	HHP Used		Annulus Pressure	
Well Connection Plug Container	Annulus Vol.	From	To	Gas Volume		Total Load	
Plug Depth 720 Feet	Packer Depth	From	To	Flush 46 Bbl. Fresh Water			

Customer Representative Alan	Station Manager Kevin Gordley	Treater Clarence R. Messick
Service Units 37,216	77,686	19,909
Driver Names Messick	McGraw	Eggers
19,826	19,860	

Time P.M.	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
12:00					Cement on location.
2:10					Sterling Drilling start to run 17 Joints Limited Service 23 Lb./Ft. 8 7/8" casing.
3:05					Casing in well. Circulate for 10 minutes
2:00					Trucks on location and hold safety meeting.
3:15	300			5	Start Fresh water Pre-Flush.
	300		10	5	Start mixing 170 sacks A-con Blend cement.
	300		84	5	Start mixing 150 sacks 60/40 Poz Blend cement.
	0		116		Stop pumping. Shut in well. Release Top Rubber Plug. Open Well.
3:39	150		46	5	Start Fresh water Displacement.
3:50	400		46		Plug down. Circulated 30 Bbl. cement to the shut in well. pit.
					Washup pump truck.
4:15					Job Complete. Thank You. Clarence, Milte, Pat