



Scale 1:240 (5"=100') Imperial  
Measured Depth Log

Well Name: VOTOPKA #2-29  
 Location: NE SE SW SW Sec 29 T3S R26W  
 License Number:  
 Spud Date: 9/25/2014  
 Surface Coordinates: 1200' FWL & 335' FSL  
 Region: Decatur County, KS  
 Drilling Completed: 10/2/2014

Bottom Hole Coordinates:  
 Ground Elevation (ft): 2525  
 Logged Interval (ft): 3200  
 Formation:  
 Type of Drilling Fluid: Chemical mud

K.B. Elevation (ft): 2530  
 Total Depth (ft): 3800

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OPERATOR

Company: Great Plains Energy, Inc.  
 Address: 6121 South 58th Street, Ste. B  
 Lincoln, NE 68516

GEOLOGIST

Name: Clayton Erickson  
 Company: Erickson Wellsite Geology  
 Address: 402 Palmer Street  
 P.O. Box 294  
 Loomis, NE 68958

DSTs

DST #1 3470-3520; 30-60-60-90; Hydro: 1688-1654 IFP: 18-78 ISIP: 1173 FFP: 86-183 FSIP: 1153; Rec: 120' 65%w 35%w 240' 90%w 10%w; BHT: 104 F; RW: 0.11@ 74F Cht: 63,000ppm; IF: 7 1/2" ISI: dead FF: 10" FSI: dead

DST #2 3515-3540 misrun

DST #3 3520-3540; 30-60-60-90; Hydro: 1677-1683 IFP: 28-41 ISIP: 900 FFP: 34-29 FSIP: 800; Rec: 10' mud; BHT: 102F; IF: 1/2" ISI: dead FF: dead FSI: dead

DST #4 3541-3563; 30-60-60-90; Hydro: 1741-1657 IFP: 23-76 ISIP: 318 FFP: 84-129 FSIP: 283; Rec: 1' free oil 59' 80%w 20%w 180' 90%w 10%w; BHT: 105F; RW: 0.19@ 56F Cht: 51,000ppm; IF: 8" ISI: dead FF: 5 1/2" FSI: dead

DST #5 3561-3608; 30-60-30-60; Hydro: 1751-1715 IFP: 18-31 ISIP: 974 FFP: 34-42 FSIP: 962; Rec: 15' mud; BHT: 102F; IF: 1/4" dead in 18min ISI: dead FF: dead FSI: dead

DST #6 3620-3713; 30-60-30-60; Hydro: 1782-1763 IFP: 68-70 ISIP: 160 FFP: 70-71 FSIP: 119; Rec: 90' mud; BHT: 102F; IF: 1/4" dead in 20min ISI: dead FF: dead FSI: dead

COMMENTS

FORMATION TOPS

| Log Tops                  | Sample tops |
|---------------------------|-------------|
| ANHDRITE 2117(+413)       |             |
| Base Anhydrite 2150(+380) |             |
| TOPEKA 3316(-788)         | 3318(-790)  |
| HEEBNER 3488(-958)        | 3488(-958)  |
| TORONTO 3517(-987)        | 3517(-987)  |
| LANSING 3531(-1001)       | 3530(-1000) |
| BKC 3728(-1198)           | 3730(-1200) |
| TD 3789(-1259)            | 3800(-1270) |

ROCK TYPES

|      |             |      |       |       |
|------|-------------|------|-------|-------|
| Anhy | Clyst       | Gyp  | Mrlst | Shgy  |
| Bent | Carb. shale | Igne | Salt  | Sltst |
| Brec | Arkose      | Lmst | Shale | Ss    |
| Cht  | Dol         | Meta | Shcol | Till  |

OTHER SYMBOLS

|          |         |      |          |
|----------|---------|------|----------|
| OIL SHOW | Spotted | Dead | INTERVAL |
| Even     | Ques    |      | Dst      |

