ERICKSON WELLSITE GEOLOGY

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

Well Name: Diana #1-11
Location: W/2 E/2 W/2 E/2 Sec 11 T1S R19W
License Number:
Region: Rawlins County, KS
Spud Date: 3/12/2014
Drilling Completed: 3/21/2014
Surface Coordinates: 2640' FNL & 1900' FEL

Bottom Hole Coordinates:

Ground Elevation (ft): 3157
K.B. Elevation (ft): 3167
Logged Interval (ft): 3440
To: TD
Total Depth (ft): 4656
Formation:
Type of Drilling Fluid: Chemical Mud

Printed by MUDLOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Murfin Drilling Co., Inc.
Address: 250 N Water, Suite 300
Wichita, KS 67202

GEOLOGIST

Name: Clayton Erickson
Company: Erickson Wellsite Geology
Address: 402 Palmer Street
P.O. Box 284
Livonia, MI 48150

DSTs

DST #1 3615-3673; 30-60-30-60; Hydro: 1792-1726 IFP: 88-88 ISIP: 1109 FFP: 49-57 FSIP: 1065; Rec: 5' 5%o 95%m; BHT: 119 F; IF: 1 1/2" Blt dead FF: dead FSI: dead

DST #2 3892-3920; 30-60-60-90; Hydro: 1863-1743 IFP: 60-118 ISIP: 1221 FFP: 129-212 FSIP: 1206; Rec: 5' o4 18f 15%o 85%m 93' 10%o 65%w 30%m; BHT: 118 F Grav: 28.8; RW: .16@ 42F Chl: 95,000ppm; IF: 2 1/2" Blt dead FF: 5 1/2" Fbl dead

DST #3 4005-4166; 30-60-60-90; Hydro: 2036-1966 IFP: 90-187 ISIP: 1327 FFP: 194-339 FSIP: 1316; Rec: 500' o4 spotted mud; BHT: 124 F; IF: 5 1/2" Blt dead FF: 5 1/2" Fbl dead

DST #4 4150-4254; 30-60-30-90; Hydro: 2029-1982 IFP: 20-27 ISIP: 1072 FFP: 30-33 FSIP: 933; Rec: 5' mud; BHT: 116; IF: 1/2" Blt dead FF: dead FSI: dead

DST #5 4245-4295; 30-60-90-90; Hydro: 2110-2013 IFP: 60-339 ISIP: 911 FFP: 332-477 FSIP: 913; Rec: 42' o4 18f 35%o 19%w 55%m 372' 20%o 20%w 60%m 372' 80%w 20%m; BHT: 134 F Grav: 27.6; RW: .17@ 61.1 F Chl: 78,000ppm; IF: BOB 7min Blt dead FF: BOB 14min Fbl: dead

COMMENTS

The loggers hit a bridge/fill @ 4618'.

FORMATION TOPS

	Log Tops	Sample tops
Anhydrite	3637(+130)	3637(+130)
Base Anhy	3668(+99)	3672(+95)
NEVA	3538(-371)	3542(-375)
RED EAGLE	3931(-434)	3936(-439)
TOPEKA	3970(-803)	3980(-813)
HOWARD	4032(-865)	4035(-868)
ORDO	3964(-797)	3965(-798)
LANSING	4065(-898)	4065(-898)
BKC	4346(-1179)	4350(-1183)
MARMATON	4388(-1221)	4390(-1223)
PAWNEE	4466(-1299)	4471(-1304)
FT SCOTT	4536(-1369)	4538(-1371)
CHEROKEE	4546(-1379)	4548(-1381)
TD	4618(-1451)	4656(-1489)

ROCK TYPES

Anhy	Clyst	Gyp	Metsd	Shgy			
Bent	Coal, shale	Igneous	Salt	Silcr			
Brec	Conglom	Limest	Shale	Sltst			
Chrt	Dol	Marls	Shcol	TBB			

OTHER SYMBOLS

DSI, SHOW		Spotted		Dead	INTERVAL
Even		Uneven			Dst

Curve Track 1
BGP (in pink)
Gamma (API)

Depth

Lithology

Geological Descriptions

Remarks

3440

BGP (pink)
Gamma (API)

Anhydrite
(3637) +130

BGP (pink)
Gamma (API)

Base Anhy at the
Gamma (API) (3672) +95

NEVA
(3542) -375

BGP (pink)
Gamma (API)

RED EAGLE
(3936) -439

TOPEKA
(3980) -813

HOWARD
(4035) -868

ORDO
(3965) -798

LANSING
(4065) -898

CFS (3-40-60)

BKC
(4350) -1183

CFS (3-40-60)

MARMATON
(4390) -1223

CFS (3-40-60)

PAWNEE
(4471) -1304

CFS (3-40-60)

FT SCOTT
(4538) -1371

CHEROKEE
(4548) -1381

CFS (3-40-60)

TD
(4656) -1489

3440

3450

3460

3470

3480

3490

3500

3510

3520

3530

3540

3550

3560

3570

3580

3590

3600

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3860

3870

3880

3890

3900

3910

3920

3930

3940

3950

3960

3970

3980

3990

4000

4010

4020

4030

4040

4050

4060

4070

4080

4090

4100

4110

4120

4130

4140

4150

4160

4170

4180

4190

4200

4210

4220

4230

4240

4250

4260

4270

4280

4290

4300

4310

4320

4330

4340

4350

4360

4370

4380

4390

4400

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4460

4470

4480

4490

4500

4510

4520

4530

4540

4550

4560

4570

4580

4590

4600

4610

4620

4630

4640

4650

4656

SS. vf grey wackvrs, arg, v fn grn, poss lrd grain por, no odor, no SFO

SH. grey

SS. rad/mod-wrtd, v fn grn, arg-v arg, poss lrd grain por, no odor, no SFO to SH rad/mvrs, v wdy

SH. rad-red/brwn, wdy

as above

SS. rad/brwn, v fn grn, arg-v arg, poss lrd grain por, no odor, no SFO to SH rad/mvrs, v wdy

SH. rad/brwn, wdy

as above

SS. v fn grn, arg-v arg, poss lrd grain por, no odor, no SFO

SH. rad/brwn, wdy

as above

LS. oolitic, fn-mdst, slty, grn-gry, sft, mod dns, no vis por, no odor, no SFO

SH. rad/brwn, wdy

as above

SS. fn grn, fri-mod ind, rad/brwn arg, grn-pk stn