

OPERATOR

Company: SANDLIN OIL CORPORATION
 Address: 621 17th ST. STE 2055
 DENVER, COLORADO 80293-2001

Contact Geologist: GARY SANDLIN
 Contact Phone Nbr: 303-292-3313
 Well Name: JOY # 1
 Location: N2 SW NW SW Sec.14-12s-18w API: 15-051-26,376-00-00
 Pool: INFIELD Field: BEMIS-SHUTTS
 State: KANSAS Country: USA

Scale 1:240 Imperial

Well Name: JOY # 1
 Surface Location: N2 SW NW SW Sec.14-12s-18w
 Bottom Location:
 API: 15-051-26,376-00-00
 License Number: 6677
 Spud Date: 9/5/2012 Time: 3:30 PM
 Region: ELLIS COUNTY
 Drilling Completed: 9/11/2012 Time: 3:28 PM
 Surface Coordinates: 1880' FSL & 330' FWL
 Bottom Hole Coordinates:
 Ground Elevation: 2139.00ft
 K.B. Elevation: 2144.00ft
 Logged Interval: 2900.00ft To: 3725.00ft
 Total Depth: 3725.00ft
 Formation: ARBUCKLE
 Drilling Fluid Type: CHEMICAL/FRESH WATER GEL

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: Latitude:
 N/S Co-ord: 1880' FSL
 E/W Co-ord: 330' FWL

LOGGED BY

Company: SOLUTIONS CONSULTING
 Address: 108 W 35TH
 HAYS, KS 67601

Phone Nbr: (785) 639-1337
 Logged By: Geologist Name: HERB DEINES

CONTRACTOR

Contractor: ROYAL DRILLING INC.
 Rig #: 1
 Rig Type: MUD ROTARY
 Spud Date: 9/5/2012 Time: 3:30 PM
 TD Date: 9/11/2012 Time: 3:28 PM
 Rig Release: 9/12/2012 Time: 8:00 AM

ELEVATIONS

K.B. Elevation: 2144.00ft Ground Elevation: 2139.00ft
 K.B. to Ground: 5.00ft

NOTES

PRODUCTION CASING WAS RAN TO FURTHER TEST AND DEVELOP ZONES OF INTEREST IN THE LANSING-KANSAS CITY AND ARBUCKLE.

LOGGING BY SUPERIOR WELL SERVICES: DUAL INDUCTION LOG, COMPENSATED NEUTRON/DENSITY LOG AND MICRO LOG.

NO DRILL STEM TESTS WERE RAN

FORMATION TOPS SUMMARY AND CHRONOLOGY OF DAILY ACTIVITY

JOY # 1

1880' FSL & 330' FWL, SW/4

Sec.14-12s-18w








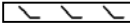




2139' GL 2144' KB

<u>FORMATION</u>	<u>SAMPLE TOPS</u>	<u>LOG TOPS</u>
Anhydrite		1397+ 747
B-Anhydrite		1433+ 711
Topeka		3103- 959
Heebner Shale		3334-1190
Toronto		3356-1212
LKC		3380-1236
BKC		3623-1479
Simpson Shale		3638-1494
Arbuckle		3650-1506
RTD	3725-1581	
LTD		3724-1580

SUMMARY OF DAILY ACTIVITY

9-05-12	RU, spud 5:00PM
9-06-12	213', set 8 5/8" surface casing to 213' w/150 sacks of Common, 2%Gel, 3% CC, plug down 3:00AM, WOC 8 hours, slope 0 degree
9-07-12	1995', drilling
9-08-12	2927', drilling, displace mud system @ 2878'
9-09-12	3539', drilling
9-10-12	3654', washing over bit, collars and drill pipe stuck at 2400'
9-11-12	3654', recovered drill collars, bit and drill pipe, ran in with bit, CCH and drilled to RTD @ 3725', log well, lay down drill pipe, slope 3/4
9-12-12	3725', run production casing and cement, rig down

ROCK TYPES

- | | | | |
|---|---|--|---|
|  Clystgy |  Dolsec |  shale, grn |  shale, red |
|  Clystcol |  Lmst fw<7 |  shale, gry |  Dol Lime |
|  Dolprim |  Lmst fw>7 |  Carbon Sh |  Lscongl |

ACCESSORIES

MINERAL

- ▲ Chert, dark
- P Pyrite
- △ Chert White

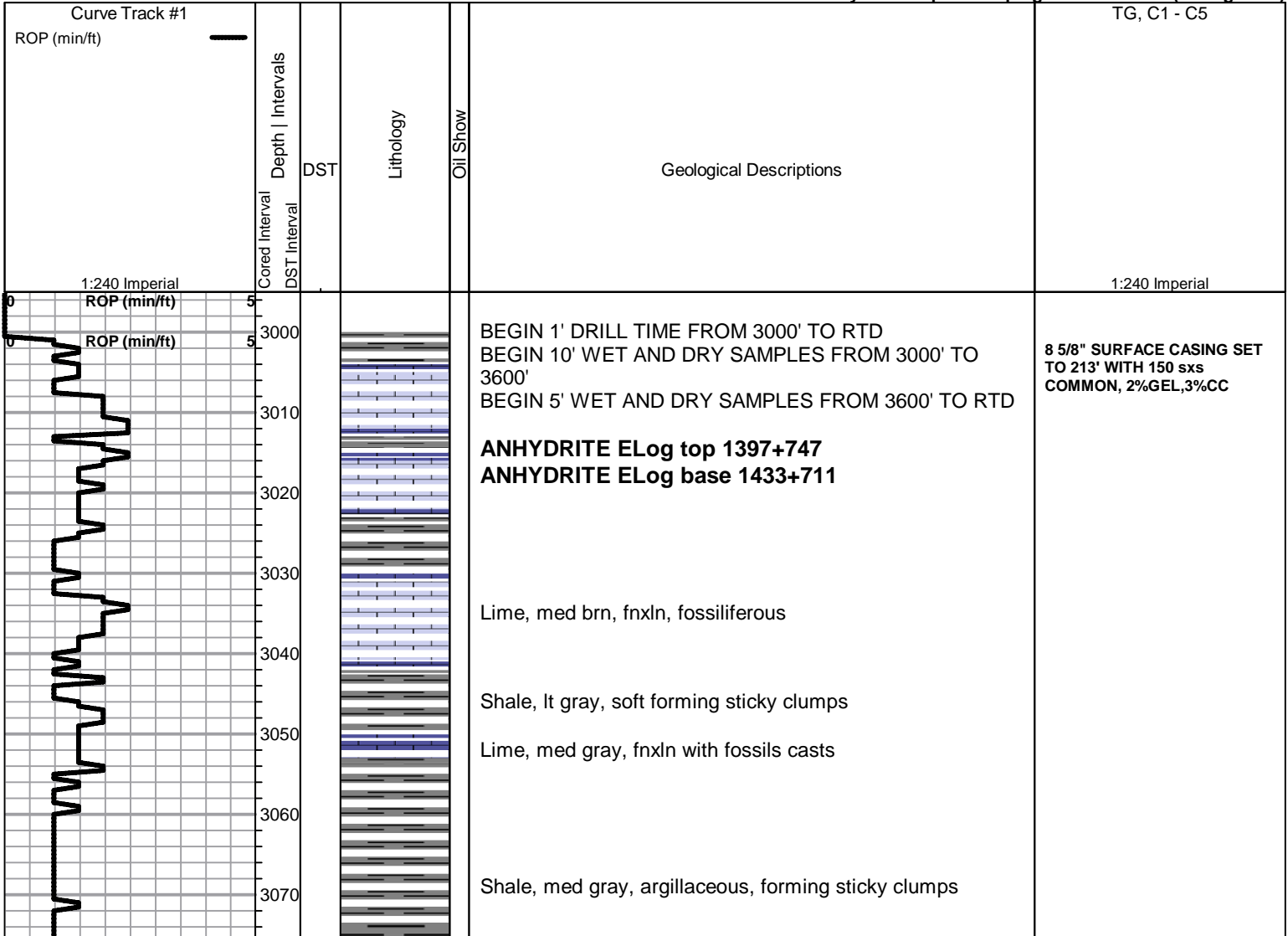
FOSSIL

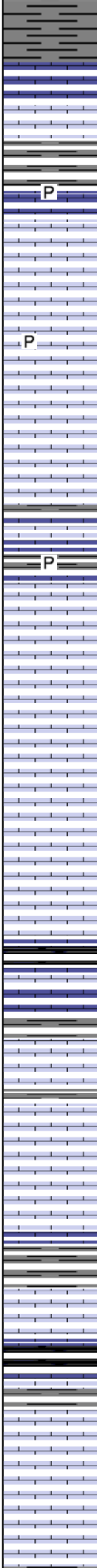
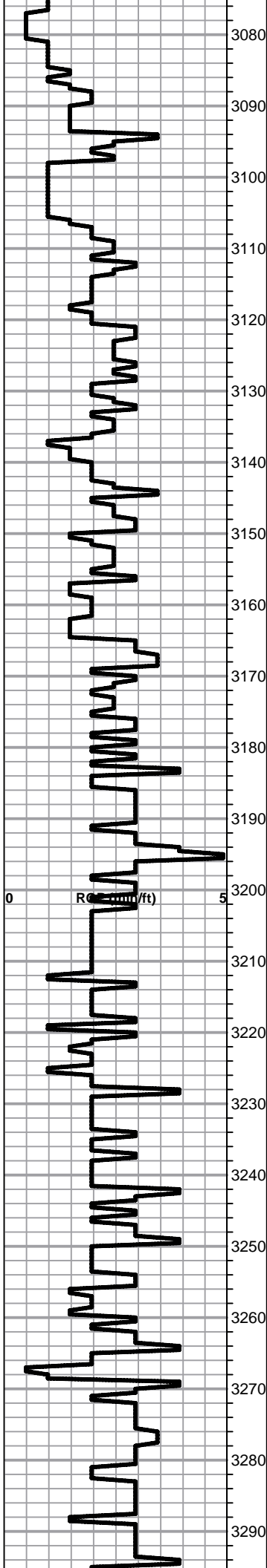
- Oolite
- ⊕ Oomoldic

OTHER SYMBOLS

DST

- DST Int
- DST alt
- Core





Lime, tan-med brn, fnxln

Lime, crm-lt tan, fnxln
 Shale, med gray, blocky with gray wash

P

TOPEKA ELog 3103-959

Lime, white, fn-vfxln, chalk in part, pyrite clusters

Lime, lt-med gray, fn-vfxln, chalk in part

P

Lime, lt gray-lt brn, fnxln, hard on crush

Lime, lt brn-med gray, fnxln

Shale, dark gray, fissile
 Lime, crm-lt tan, fnxln with dark flaky residue

P

Shale, dark gray, fissile, pyritic
 Lime lt brn, fnxln

Lime, lt-med brn, fnxln, fossiliferous

Lime, lt-med tan, fnxln, hard on crush

Lime, tan-lt gray, fn-vfxln, fossiliferous

Lime, tan-lt gray fn-vfxln

Shale, black carbonaceous,
 Lime, lt gray, fnxln, hard on crush

Lime, tan, fnxln, chalk in part

Lime, white, fnxln-vfxln, brittle on break

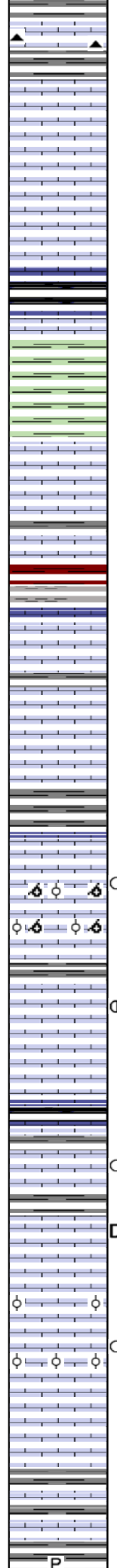
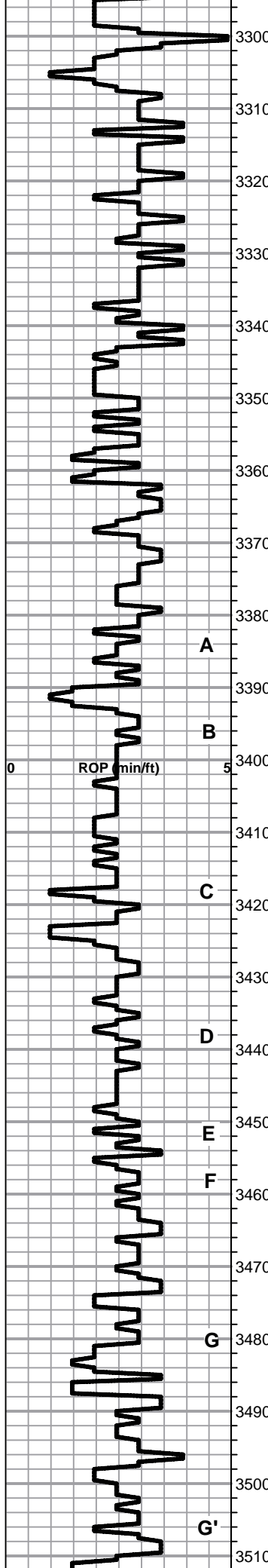
Lime, crm-brn-gray, fnxln

Lime, crm-tan, fnxln

Shale, black carbonaceous, fissile, blocky
 Shale, dove gray-lt green, forming soft sticky clumps

Lime, lt tan, fnxln

Lime, crm-tan, fnxln



Lime, tan-lt brn, fnxln, lt brn chert

Lime, tan, fnxln

Lime, crm-lt brn, fnxln

Lime crm-lt brn, fnxln

HEEBNER SHALE ELog 3334-1190

Shale, black carbonaceous, fissile, blocky
Lime, crm-lt brn, fnxln, fossiliferous

Shale, lime green to lt gray, soft forming soft mud

TORONTO ELog 3356-1212

Lime, white-crm, fnxln, chalk in part NS

Lime, tan fnxln
Shale, reddish brn--lt gray, soft forming sticky clumps

LKC ELog 3380-1236

Lime, lt brn-lt gray, fnxln, NS

Lime, tan-lt gray, fnxln, NS

Lime, crm-tan, fnxln

Lime, crm-tan , fn-med xln, scattered staining, Light Odor

Lime, crm, fnxln with oolitic-oolmoldic in part, barren, No odor, No staining, FSO

Lime, crm-brn, mostly fnxln with few chips with interxln porosity, scattered staining, lt odor

Shale, gray-black carbonaceous, fissile, blocky
Lime, lt gray, fnxln

Lime, crm, fn-med xln, interxln porosity, lt staining, no odor

Lime, crm-tan, fnxln with scattered gilsonitic flakes, poor visible porosity development

Lime, crm-lt brn, fnxln with scattered oolitic-oolmoldic material with lt staining and very lt odor.

Lime, crm-lt brn, fnxln

Lime, crm-lt brn, fn-vfxln

Lime, crm-lt brn, fnxln, chalk in part

Shale gray soft pyritic

THE LOG ZONE FROM 3413-20 SHOULD BE PERFORATED AND TESTED PRIOR TO ABANDONMENT OF WELL

THE LOG ZONE FROM 3434-36 SHOULD BE PERFORATED AND TESTED PRIOR TO ABANDONMENT OF WELL.

THE LOG ZONE FROM 3457-58 SHOULD BE PERFORATED AND TESTED PRIOR TO ABANDONMENT OF WELL

THE LOG ZONE FROM 3479-82 MAY BE PRODUCTIVE ON HIGH STRUCTURES AND SHOULD BE PERFORATED AND TESTED PRIOR TO ABANDONMENT OF WELL

A

B

C

D

E

F

G

G'

P

