

OPERATOR

Company: Charles N. Griffin
 Address: PO Box 347
 Pratt, KS 67124

Contact Geologist: Sharron #4
 Contact Phone Nbr: Section 34-32S-12W
 Well Name: Sharron #4
 Location: Section 34-32S-12W
 Pool: API: 15-007-24311
 State: Kansas
 Geologist: Country: USA

Scale 1:240 Imperial

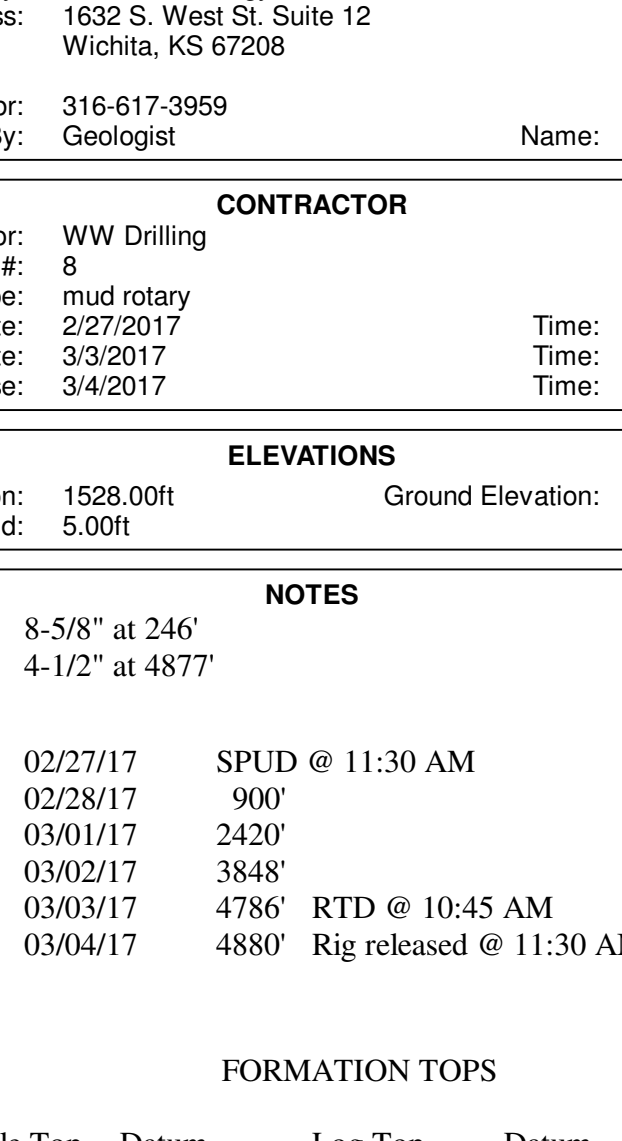
Well Name: Sharron #4
 Surface Location: Section 34-32S-12W
 Bottom Location:
 API: 15-007-24311

License Number:
 Spud Date: 2/27/2017 Time: 11:30 AM
 Region: Barber County
 Drilling Completed: 3/3/2017 Time: 10:45 AM
 Surface Coordinates: 660' FSL & 890' FWL
 Bottom Hole Coordinates:
 Ground Elevation: 1523.00ft
 K.B. Elevation: 1528.00ft
 Logged Interval: 3300.00ft To: 4882.00ft
 Total Depth: 4880.00ft
 Formation:
 Drilling Fluid Type: Chemical (MudCo)

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: Latitude:
 N/S Co-ord: 660' FSL
 E/W Co-ord: 890' FWL

LOGGED BY



TERRATECH
ENERGY SERVICE, LLC

Company: TerraTech Energy Service LLC.
 Address: 1632 S. West St. Suite 12
 Wichita, KS 67208

Phone Nbr: 316-617-3959
 Logged By: Geologist Name: Bruce Reed

CONTRACTOR

Contractor: WW Drilling
 Rig #: 8
 Rig Type: mud rotary
 Spud Date: 2/27/2017 Time: 11:30 AM
 TD Date: 3/3/2017 Time: 10:45 AM
 Rig Release: 3/4/2017 Time: 11:30 AM

ELEVATIONS

K.B. Elevation: 1528.00ft Ground Elevation: 1523.00ft
 K.B. to Ground: 5.00ft

NOTES

Surface Casing: 8-5/8" at 246'
 Production Casing: 4-1/2" at 4877'

Daily Penetration:
 02/27/17 SPUD @ 11:30 AM
 02/28/17 900'
 03/01/17 2420'
 03/02/17 3848'
 03/03/17 4786' RTD @ 10:45 AM
 03/04/17 4880' Rig released @ 11:30 AM

FORMATION TOPS

Formation	Sample Top	Datum	Log Top	Datum	Comparison*
Heebner	3612'	-2084	3614'	-2086	+7
Lansing	3819'	-2291	3820'	-2292	+2
Stark	4198'	-2670	4200'	-2672	+3
Hush	4228'	-2700	4230'	-2702	+7
B/KC	4285'	-2757	4286'	-2758	+5
Mississippian	4372'	-2844	4372'	-2844	+5
Kinderhook	4571'	-3043	4574'	-3046	+3
Viola	4675'	-3147	4677'	-3149	+4
Simpson Sand	4775'	-3246	4775'	-3247	-1

Reference well: Patrick Petroleum, #1 Moots, C SW SW, Section 34-32S-12W
 Barber County, Kansas

LOG ANALYSIS

Lower Douglas Sand: 3775' (22%), 3777' (22%), 3779' (22%), 3781' (25%), 3783' (35%), 3785' (35%), 3787' (32%), 3789' (28%), 3791' (28%) and 3793' (25%).

Mississippian: 4386' (32%), 4388' (37%), 4390' (24%), 4392' (22%), 4394' (20%), 4396' (26%), 4398' (30%), 4400' (32%), 4402' (27%) and 4404' (25%).

ROCK TYPES

Chert
 shale, gray
 Carbon Sh
 Ss
 Lmsl fw>

ACCESSORIES

MINERAL
 - Calcareous
 - Dolomitic
 - Sandy
 - Chert White
 - Argillaceous/Shale

OTHER SYMBOLS

INTERVALS
 - Core
 - DST

Oil Show
 - Good Show
 - Fair Show
 - Poor Show
 - Spotted or Trace
 - Questionable Strn
 - Dead Oil Strn
 - Fluorescence
 - Gas

DST
 - DST Int
 - DST alt
 - Core
 - well pipe

