

Company: Charles N. Griffin
 Address: PO Box 347
 Pratt, KS 67124-0347

Contact Geologist:
 Contact Phone Nbr:

Well Name: #1 Colleen
 Location: Section 34-32S-12W
 Pool: API: 15-007-24298
 State: Kansas
 Country: USA

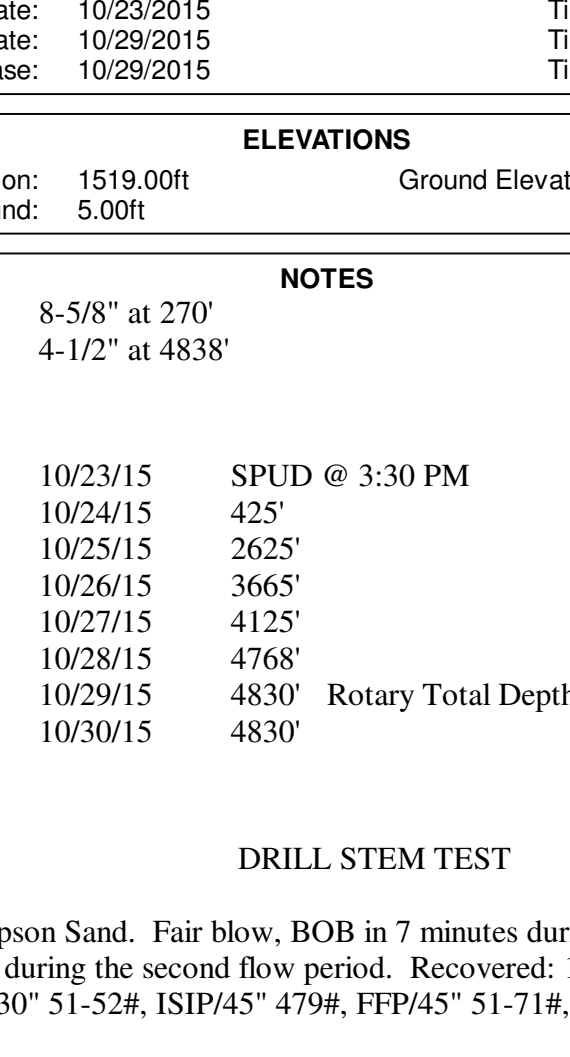
Scale 1:240 Imperial

Well Name: #1 Colleen
 Surface Location: Section 34-32S-12W
 Bottom Location:
 License Number: 15-007-24298
 Spud Date: 10/23/2015
 Region: Barber County
 Drilling Completed: 10/29/2015
 Surface Coordinates: 2310' FSL & 1430' FEL
 Bottom Hole Coordinates: 1514.00ft
 Ground Elevation: 1519.00ft
 K.B. Elevation: 1519.00ft
 Logged Interval: 3400.00ft To: 4830.00ft
 Total Depth: 4830.00ft
 Formation:
 Drilling Fluid Type: Chemical (MudCo)

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: 2310' FSL
 N/S Co-ord: 1430' FEL
 E/W Co-ord: 2310' FSL

LOGGED BY



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 #: 4
 Rig Type: mud rotary
 Spud Date: 10/23/2015
 TD Date: 10/29/2015
 Rig Release: 10/29/2015
 Time: 3:30 PM
 Time: 1:40 AM
 Time: 11:30 PM

ELEVATIONS

K.B. Elevation: 1519.00ft
 K.B. to Ground: 5.00ft
 Ground Elevation: 1514.00ft

NOTES

Surface Casing: 8-5/8" at 270'
 Production Casing: 4-1/2" at 4838'

Daily Penetration:
 10/23/15 SPUD @ 3:30 PM
 10/24/15 425'
 10/25/15 2625'
 10/26/15 3665'
 10/27/15 4125'
 10/28/15 4768'
 10/29/15 4830' Rotary Total Depth @ 1:40 AM
 10/30/15 4830'

DRILL STEM TEST

DST #1 4740'-4768'. Simpson Sand. Fair blow, BOB in 7 minutes during the initial flow period. Weak blow, built to 5-1/2" during the second flow period. Recovered: 110' GIP 70' OCM (15% oil, 85% mud). IFP/30" 51-52#, ISIP/45" 479#, FFP/45" 51-71#, FSP/60" 509#

Formation	Log Top	Datum	Sample Top	Datum	Comparison*
Elgin	3437'	-1918	3443'	-1924	-2
Heebner	3611'	-2092	3609'	-2090	flat
Brown Lime	3808'	-2289	3807'	-2288	+3
Stark	4200'	-2681	4197'	-2678	-7
Base KC	4283'	-2764	4280'	-2761	-2
Mississippian	4378'	-2859	4376'	-2857	+0
Kinderhook	4560'	-3041	4556'	-3037	-5
Viola	4664'	-3145	4659'	-3140	-1
Simpson Sand	4760'	-3241	4754'	-3235	+2

*Reference well: Texaco, Inc., #1 Anna Duncan, C NW SE Section 34-32S-12W, Barber County, Kansas

ROCK TYPES

Chrt
 Dolomite
 Limestone
 Sandstone
 Carbon Sh
 Ss

ACCESSORIES

MINERAL
 * Sandy
 Chart White
 Argillaceous Shale

OTHER SYMBOLS

Oil Show
 Good Show
 Fair Show
 Poor Show
 Spotted or Trace
 Questionable Stn
 Dead Oil Stn
 Fluorescence
 Gas
 DST
 DST Int
 DST all
 Core
 tail pipe

