OPERATOR

Company: DENIS F. ROBERTS
Address: 3904 FAIRWAY DRIVE

HAYS, KANSAS 67601

Contact Geologist: DENIS F. ROBERTS Contact Phone Nbr: 785-625-8526

Well Name: ROBERTS # 1

Location: NW SE NE SW, SEC. 5-T9S-R20W

API: 15-163-24,253-00-00

Pool: Field: ARPIN

State: KANSAS Country: USA

Scale 1:240 Imperial

Well Name: ROBERTS # 1

Surface Location: NW SE NE SW, SEC. 5-T9S-R20W

Bottom Location:

API: 15-163-24,253-00-00

License Number: 32322

Spud Date: 10/2/2014 Time: 5:00 PM

Region: ROOKS COUNTY

Drilling Completed: 10/5/2014 Time: 8:00 AM

Surface Coordinates: 1786' FSL & 2291' FWL

Bottom Hole Coordinates:

Ground Elevation: 2131.00ft K.B. Elevation: 2139.00ft

Logged Interval: 3000.00ft To: 3770.00ft

Total Depth: 3770.00ft Formation: ARBUCKLE

Drilling Fluid Type: CHEMICAL/FRESH WATER GEL

SURFACE CO-ORDINATES

Well Type: Vertical
Longitude: -99.5780989
Latitude: 39.297747
N/S Co-ord: 1786' FSL
E/W Co-ord: 2291' FWL

LOGGED BY



Company: SOLUTIONS CONSULTING, INC.

Address: 108 WEST 35TH STREET

HAYS, KANSAS 67601

Phone Nbr: 785-625-3380

Logged By: GEOLOGIST Name: HERB DEINES/BRUCE BASYE

CONTRACTOR

Contractor: DISCOVERY DRILLING, INC.

Rig #: 1

Rig Type: MUD ROTARY

 Spud Date:
 10/2/2014
 Time:
 5:00 PM

 TD Date:
 10/5/2014
 Time:
 8:00 AM

 Rig Release:
 10/6/2014
 Time:
 10:00 AM

ELEVATIONS

K.B. Elevation: 2139.00ft Ground Elevation: 2131.00ft

K.B. to Ground: 8.00ft

NOTES

THE ROBERTS # 1 RAN FLAT IN THE LKC WITH THE A.E.ARPIN # 1 LOCATED NE NE SW. ALL SHOWS IN THE LKC WERE TESTED IN A.E. ARPIN # 1 WITH NEGATIVE RESULTS. THE A.E. ARPIN # 1 WAS COMPLETED AS

AN ARBUCKLE WELL. THE ROBERTS # 1 WAS DRILLED WITH THE INTENTION OF LOCATING THE SAME ARBUCKLE STRUCTURE BUT ENCOUNTERED CONGLOMERATE FILL OF CHERTS AND SHALES INSTEAD OF THE ARBUCKLE. AFTER LOG ANALYSIS AND CAREFUL CONSIDERATION BY ALL PARTIES, IT WAS RECOMMENDED THAT THE WELL BE PLUGGED AND ABANDONED DUE TO THE LACK OF ARBUCKLE DEVELOPMENT BY THE TIME THE WELL REACHED RTD OF 3770'.

OPEN HOLE LOGGING BY PIONEER ENERGY SERVICES: DUAL INDUCTION LOG, DUAL COMPENSATED POROSITY LOG

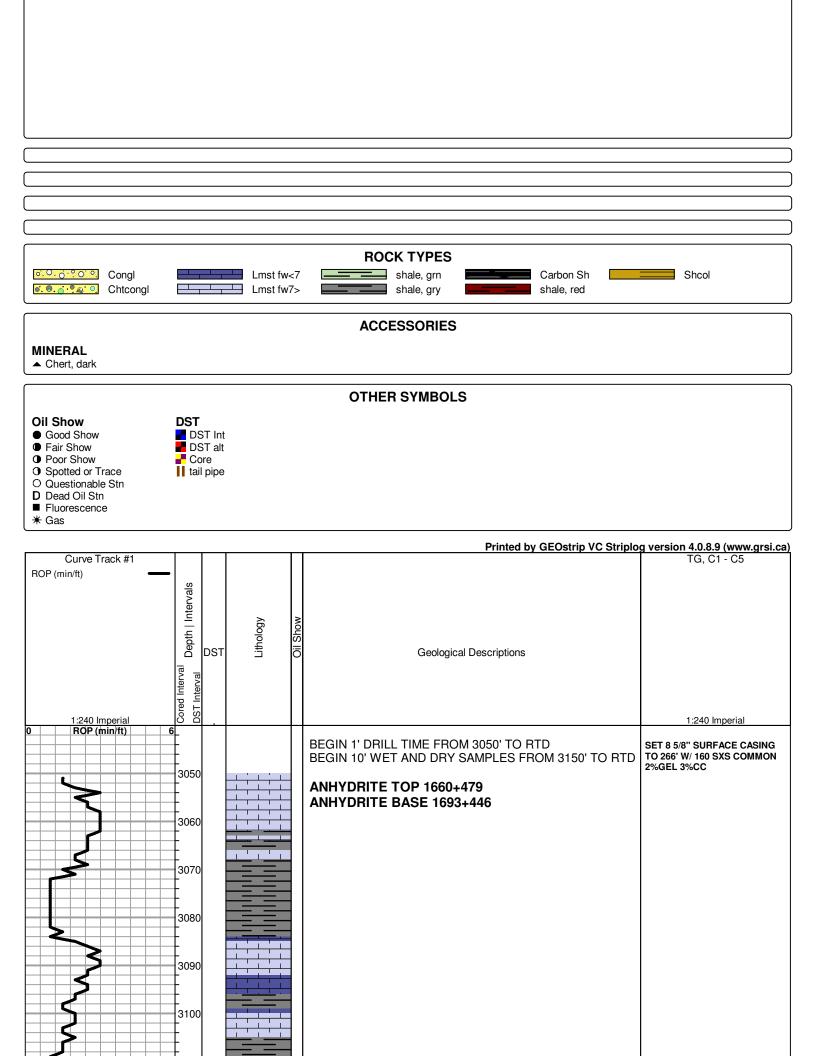
NO DRILL STEM TESTS WERE RAN ON THIS WELL

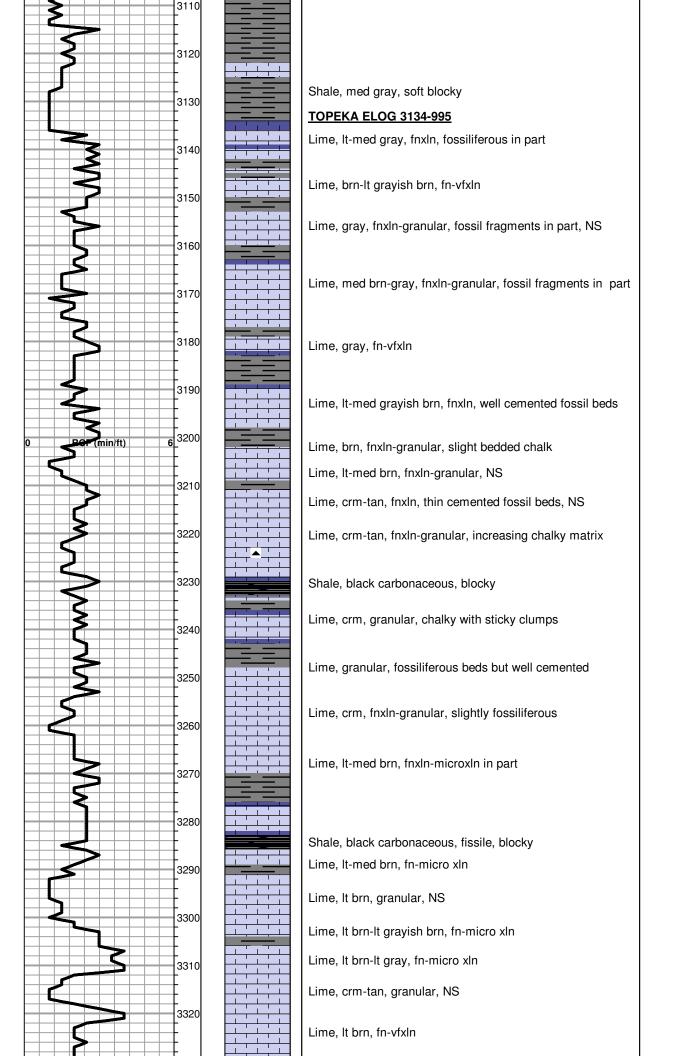
FORMATION TOPS COMPARISON

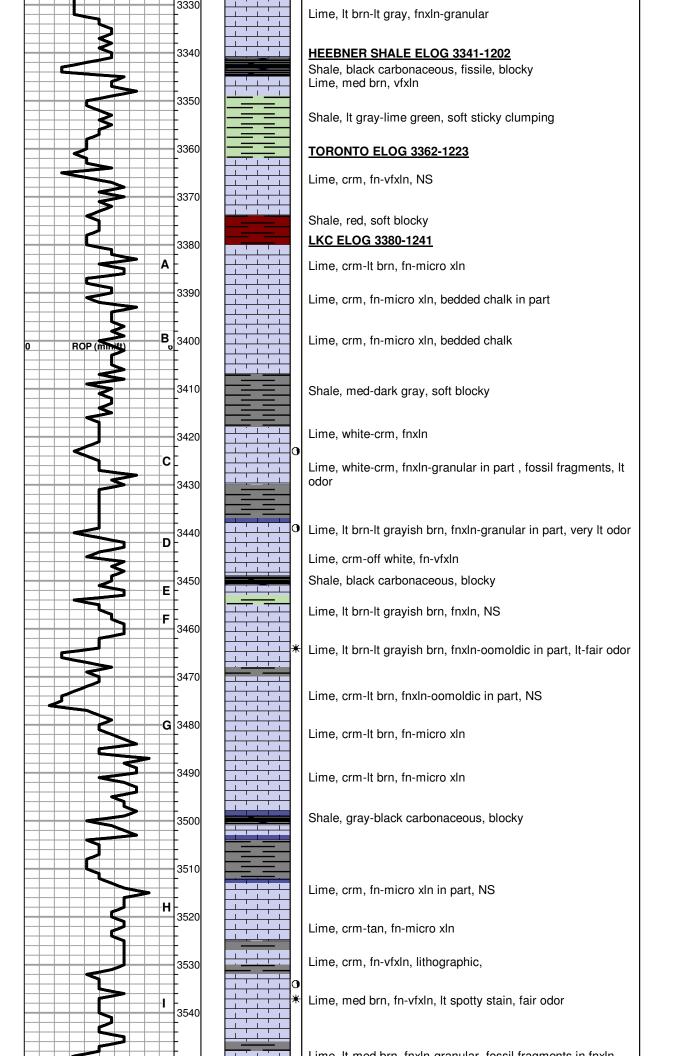
	ROBERTS # 1	A.E. ARPIN # 1
	NW SE NE SW	NE NE SW
	SEC.5-T9S-R20W	SEC.5-T9-R20W
	2131'GL 2139'KB	KB 2131'
FORMATION	LOG TOPS	LOG TOPS
Anhydrite	1660+ 479	+ 476
B-Anhydrite	1693+446	+ 442
Topeka	3134 - 995	- 996
Heebner Sh.	3341-1202	-1201
Toronto	3362-1223	-1223
LKC	3380-1241	-1241
ВКС	3600-1461	-1461
Arbuckle	Not Reached	-1522
RTD	3770-1631	-1549

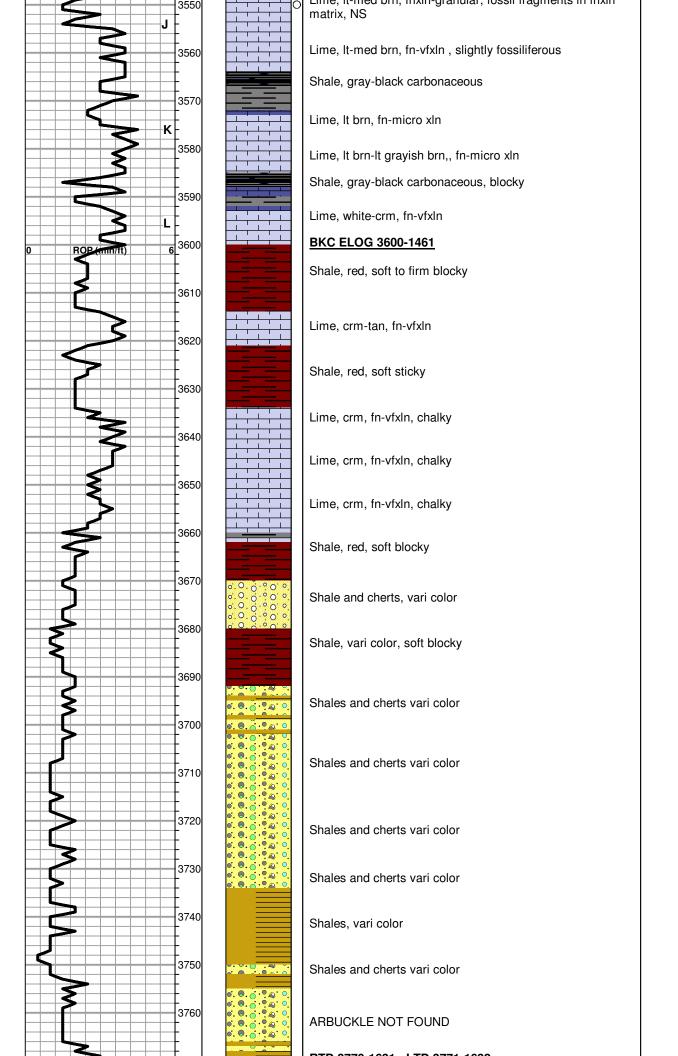
SUMMARY OF DAILY ACTIVITY

10-2-14	RU, spud 5:00PM, set 8 5/8" surface casing to 266' w/ 160 sxs
	common 2%gel 3%CC, plug down 9:45PM, WOC 8 hrs
10-3-14	445', drill plug at 5:45PM
10-4-14	2207', drilling
10-5-14	3045', drilling
10-6-14	3568', RTD 3770' @8:00AM, short trip, TOWB, logs
10-7-14	3770, finish logging, P&A,









	_		 		3770	ıl.		RID 3770-1631 LID 3771-1632	
			Т	T	73//0	1	ı	1112 0110 1001 212 0111 1002	
					Т		ı		
					Т		ı		
		\neg	Т	\top	Т		ı		
					Т		ı		