

LITHOLOGY STRIP LOG

WellSight Systems

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

Well Name: **Helen #1**
 Location: **NW SE NE SE**
 License Number: **API: 15-007-23880-00-00** Region: **Barber County, Kansas**
 Spud Date: **May 17, 2012** Drilling Completed: **May 25, 2012**
 Surface Coordinates: **1815 FSL, 335' FWL Section 10-Twp 35 South - Rge 12 West**
 Bottom Hole Coordinates: **Stranathan Pool Vertical Hole**
 Ground Elevation (ft): **1393** K.B. Elevation (ft): **1404**
 Logged Interval (ft): **4500** To: **5233** Total Depth (ft): **5233**
 Formation: **Viola**
 Type of Drilling Fluid: **Chemical Mud, Displace at 3606'**

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

OPERATOR

Company: **Indian Oil Company**
 Address: **PO Box 209
 2507 SE US 160 Hwy
 Medicine Lodge, Kansas 67104-0209**

GEOLOGIST

Name: **W. Scott Alberg**
 Company: **Alberg Petroleum, LLC**
 Address: **609 Meadowlark Lane
 Pratt, Kansas 67124**

FORMATION TOPS

	SAMPLE TOPS	LOG TOPS
HUSHPUCKNEY SHALE	4574(-3168)	4573(-3167)
B/KC	4624(-3220)	4621(-3217)
PAWNEE	4722(-3318)	4720(-3316)
CHEROKEE GROUP	4772(-3368)	4770(-3366)
CHEROKEE SAND	4798(-3394)	4796(-3392)
MISSISSIPPIAN	4818(-3414)	4815(-3411)
KINDERHOOK SHALE	5102(-3698)	5100(-3696)
WOODFORD SHALE	5173(-3769)	5176(-3772)
RTD	5233(-3829)	
LTD		5232(-3828)

COMMENTS

Surface Casing: Set 13 3/8" 217' with 190 sxs Class A, 2% gel, 3% cc, cement did Circulate. Ran 8 5/8" casing, set at 780'
 Production Casing: Ran 5 1/2".
 Deviation Surveys: 1 - 220', 3/4 - 818', 2 1/2 - 4641, 3/4 - 5233'.
 Contractor Bit Record: 1 - 17 1/2" out at 220'
 2 - 7 7/8" PDC out at 658'
 3 - 12 1/4" out at 818'.
 4 - 7 7/8" PDC out at 4641'.
 5 - 7 7/8" out at 5233'

Gas Detector: DMT Company, Trailer #1
 Mud System: Mud Co, Brad Bortz, Engineer
 DSTs: None Ran
 Logged By Log Tech, Inc
 LTD 5232'

DSTs

None Ran

CREWS

Val Drilling Rig #5
 Tool Pusher - Randy Smith
 Drillers - Days - Andy Brown
 Evening - Jeff Hood
 Motning - Jim Stevenson

ROCK TYPES

Anhy	Congl	Lmst	Black sh
Bent	Sdy dolo	Mrlst	Grysh
Brec	Dol	Salt	Shale
Cht	Gyp	Shale	Shysltst
Clyst	Sdy lmst	Siltst	Sitysh
Coal		Ss	

ACCESSORIES

MINERAL Anhy	Chlorite	Pellet	Grysh
MINERAL Arg	Dol	Pisolite	Gryslt
MINERAL Bent	Sand	Plant	Lms
MINERAL Bit	Silt	Strom	Sandy lms
MINERAL Brefracg	Fossil Algae	Fuss	Sh
MINERAL Calc	Fossil Amph	Oomoldic	Siltstn
MINERAL Carb	Fossil Belm	STRINGER Anhy	Boundst
MINERAL Chttk	Fossil Bloclst	STRINGER Arg	Chalky
MINERAL Dol	Fossil Brach	STRINGER Bent	Cryxln
MINERAL Ferrpel	Fossil Bryozoa	STRINGER Coal	Earthy
MINERAL Ferr	Fossil Cephal	STRINGER Dol	Finexln
MINERAL Glau	Fossil Coral	STRINGER Gyp	Grainst
MINERAL Gyp	Fossil Echin	STRINGER Ls	Lithogr
MINERAL Marl	Fossil Fish	STRINGER Mrlst	Microxln
MINERAL Nodule	Fossil Foram	STRINGER Siltstrg	Mudst
MINERAL Phos	Fossil Fossil	STRINGER Ssstrg	Packst
MINERAL Pyr	Fossil Gastro	STRINGER Carbsh	Wackest
MINERAL Salt	Fossil Oolite	STRINGER Clystn	
MINERAL Sandy			
MINERAL Silt			

