

Scale 1:240 Imperial

Well Name: Hawes Ranch 4-27

249 FNL 346 FWL NE NW NW NW Surface Location:

27-28S-23W Bottom Location:

> API: 15-057-20976

License Number: 5004

> Spud Date: 11/12/2016 Time: 7:30 PM

Region:

Drilling Completed: 11/23/2016 Time: 1:41 AM

Surface Coordinates: 249 FNL & 346 FWL

Bottom Hole Coordinates:

Ground Elevation: 2498.00ft K.B. Elevation: 2510.00ft

Logged Interval: 4250.00ft To: 5270.00ft

Total Depth: 5270.00ft Formation: Pawnee

Drilling Fluid Type: Native/Chemical

OPERATOR

Vincent Oil Corp Company: Address: 200 W Douglas Ave

Ste 725

WIchita, KS 67202

Contact Geologist: Dick Jordan Contact Phone Nbr: 316 262 3573

Well Name: Hawes Ranch 4-27

Location: 249 FNL 346 FWL NE NW NW NW API: 15-057-20976 Pool: Field: Developement Mulberry Creek

State: KS Country: Ford

CONTRACTOR

Contractor: Duke Drilling Co., Inc.

Rig #: Rig Type: Rotary

Spud Date: 11/12/2016 Time: 7:30 PM TD Date: 1:41 AM 11/23/2016 Time: 12:00 PM Rig Release: 11/24/2016 Time:

LOGGED BY

Vincent Oil Corporation Company: Address:

200 W Douglas Ave

Ste 725

Wichita, KS 67202

Phone Nbr: 316-262-3573

Logged By: Geologist Name: Tom Dudgeon

ELEVATIONS

K.B. Elevation: 2510.00ft Ground Elevation: 2498.00ft N.D. 10 GIOUIIU. 12.0011

TOTAL DEPTH

 Measurement Type:
 Measurement Depth:
 TVD:

 RTD
 5270.00
 5270.00

 LTD
 5268.00
 5268.00

SURFACE CO-ORDINATES

Well Type: Vertical

Longitude: -99.8309347 Latitude: 37.5863403

N/S Co-ord: 249 FNL E/W Co-ord: 346 FWL

DRILLING FLUID SUMMARY

 Type
 Date
 From Depth
 To Depth

 Native Mud
 11/17/2016
 0.00ft
 3791.00ft

 Chemical Mud
 11/28/2016
 3791.00ft
 5270.00ft

CASING SUMMARY

Surface Intermediate Main
Bit Size 12.25 in 7.88 in
Hole Size 12.25 in 7.88 in

Size Set At Type # of Joints Drilled Out At

Surf Casing 8.625 in 639 ft 23# 14 11/13/2016 3:45 PM

Int Casing

Prod Casing 4.5 in 5269 ft 11.6 130 11/24/2016 12:00 AM

CASING SEQUENCE

Type Hole Size Casing Size At 0.00 in 0.00 0.00 ft

OPEN HOLE LOGS

Logging Company: ELI Wireline Logging Engineer: Jeff Juebbers Truck #: 922399

Logging Date: 11/23/20

11/23/2016 Time Spent: 6

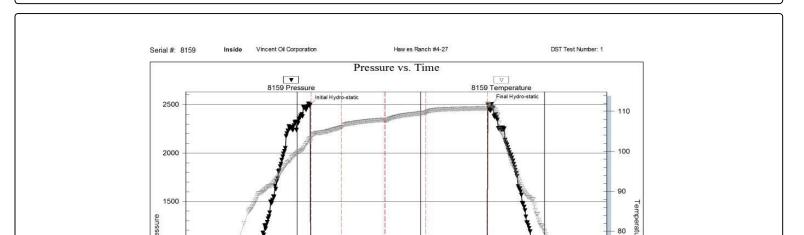
Logs Run: 4 # Logs Run Successful: 4

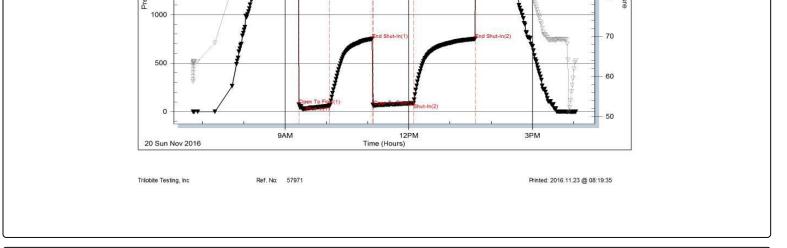
LOGS RUN

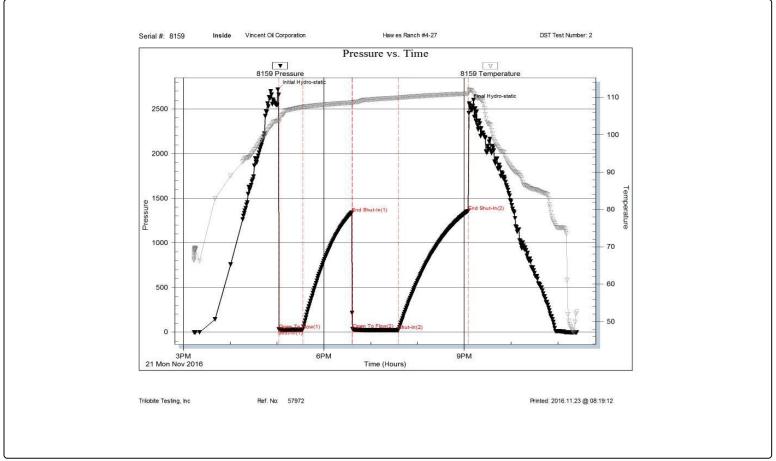
Tool Logged Interval Logged Interval Hours Remarks Run# 0.00ft 5270.00ft 3.00 DI 1 NDE/NEU/PE 4100.00ft 5270.00ft 3.00 1 MIC 4100.00ft 5270.00ft 3.00 2 2 SON 0.00ft 5270.00ft 3.00

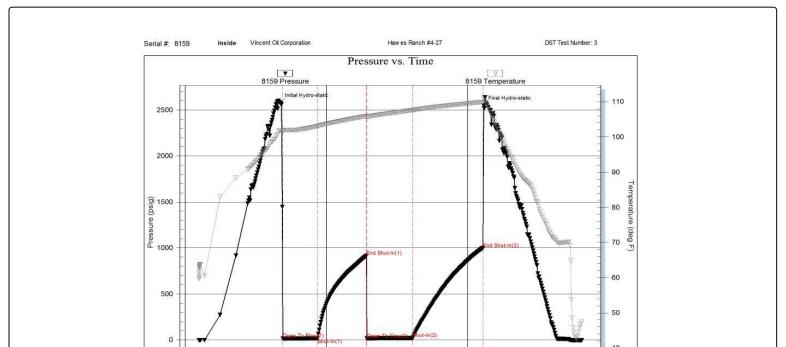
LOGGING OPERATION SUMMARY

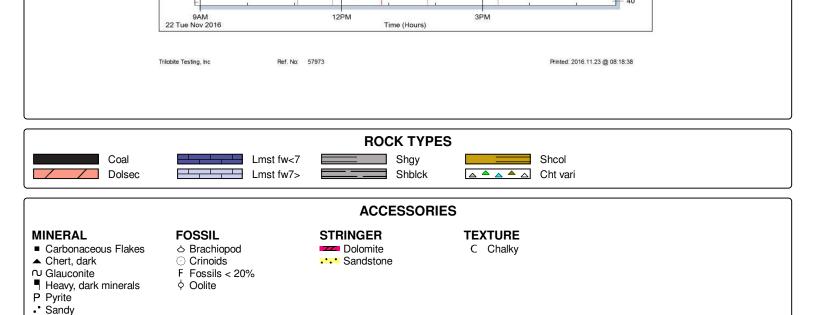
Date From To Description Of Operation 11/17/2016 0.00ft 0.00ft Logs Ran Successfully











OTHER SYMBOLS

OIL SHOWS INTERVALS

Even Stn

• Silty △ Chert White

POROSITY TYPE

× Intercrystalline

Φ Intercolitic V Vuggy

P Pinpoint

O Organic

F Fracture

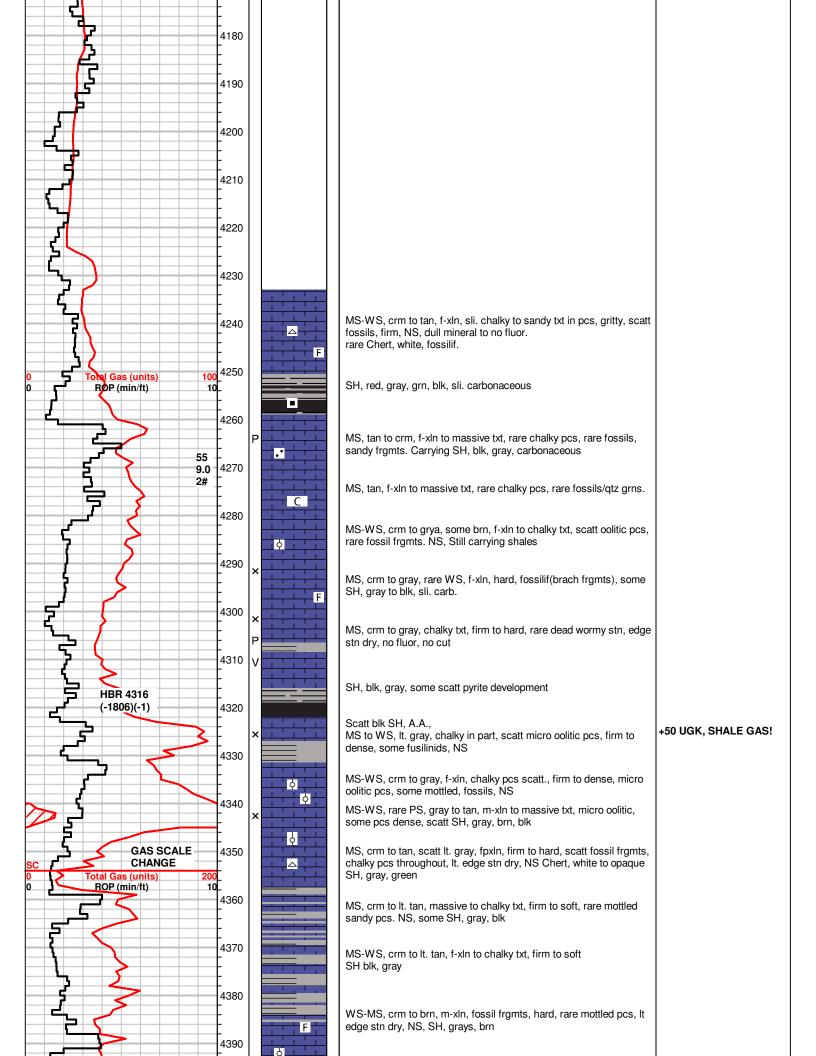
e Earthy Fenestral

Moldic کہ

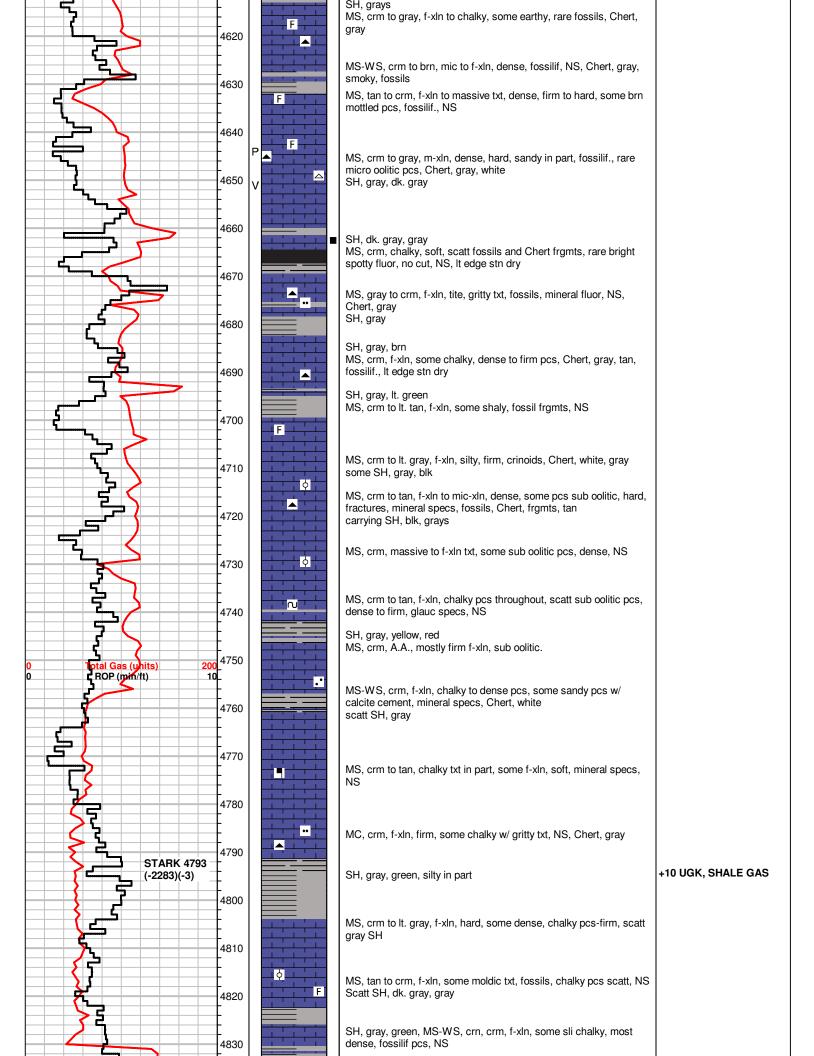
- Spotted Stn 50 75 %
- Spotted Stn 25 50 %
- O Spotted Stn 1 25 %
- O Questionable Stn
- D Dead Oil Stn
- Fluorescence

Core · DST

				Printed by GEOstrip VC Striplog v	ersion 4.0.7.0 (www.grsi.ca)
Curve Track #01		25			
Total Gas (units)	ω	Bolc			
ROP (min/ft)	Depth Intervals	Interpreted Lithology	Oil Shows	Geological Descriptions	Comment
1:240 Imperial Total Gas (units) 100	Cored Interval				
0 Total Gas (units) 100 0 ROP (min/ft) 10	- 100				
	4110				
	4120				
	4130			GEO on location @ 5:30 PM 11/17/2016	
	4140				
	4150				
	4160				
	4170				

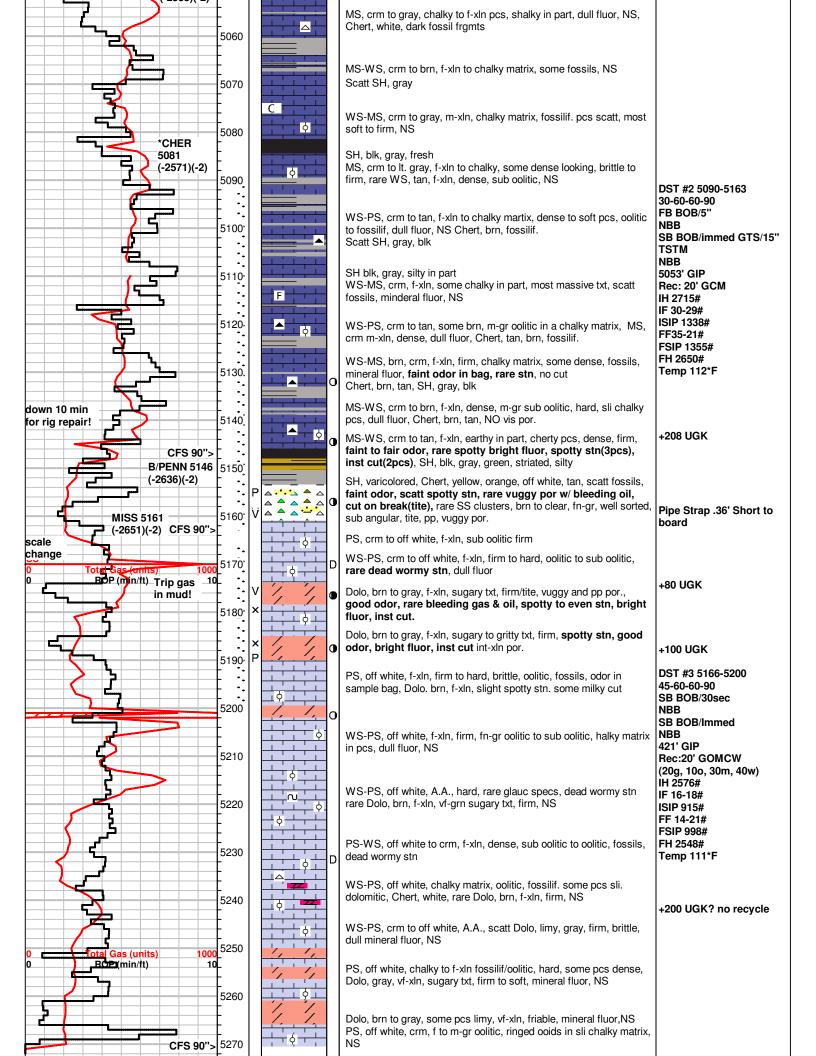


Scatt SH, brn, blk, gry 55 φ MS, crm to lt. gray, earthy to massive txt, firm, NS 9.0 4400 1# WS-PS, crm to lt. tan, fossilif/oolitic in part, firm to hard P SH, grays, carb., pyrite 4410 MS-WS, crm to tan, chalky to f-xln, earthy txt., firm, dark ringed fn to m-gr ooids in dense tan matrix, It edge stn dry. SH, gray, green, pyrite φ 4420 ф Fi MS, crm to gray, f-xln, firm, some chalky, fossil frgmts, mottled 4430 pcs, NS, very light edge stn in dry SH, gray, blk 4440 SH, gray, striated 4450 MS-WS, brn, tan, crm, massive to f-xln, scatt chalky pcs, dense, BL 4457 4460 þ_ micro oolitic pcs, scatt fossil frgmts. (-1947)(-3) F SH, gray, brn MS, crm to gray, m-xln to earthy txt, hard to firm, some chalky, **LANS 4469** 4470 fossil frgmts. scatt dull fluor, NS (-1959)(-4) WS-MS, crm to lt. tan, brn, f-xln, some pcs fossilif, dense, NS F 4480 -55 9.1 .1# MS, crm to tan, f-xln to massive txt, dense, scatt fossil frgmts, rare 4490 Chert, white, NS some SH, gray F WS-MS, crm, tan, brn, mottled, chalky, firm to hard, NS, Chert, 4500 as (units) white, SH, gray, rare blk ROP (min/ft) 10 SH, gray 4510 MS, tan to crm, some brn, f-xln to massive, dense, fossils, micro oolitic 4520 MS, crm to lt. gray, f-xln, some dense, chalky in part, Chert, white \triangle scatt SH, gray, It. green 4530 MS, crm, f-xln to earthy txt, dense in part, NS, Chert, white, some pcs blocky and on egde of MS 4540 WS-MS, crm to gray, scatt brn, f-xln, scatt fossil frgmts, micro oolitic in part, some sandy pcs SH, gray, brn, yellow, sandy 4550 MS, crm, f-xln, dense, micro oolitic, rare gray waxy pcs, dull fluor, φ NS, It edge stn in dry. ф rare blk SH 4560 Scatt SH, blk, gray MS, crm to brn, chalky to f-xln, hard to soft pcs, fossilif, sub oolitic in part, some pcs sandy 4570 WS-MS, crm to tan, f-xln to chalky, soft, NS \triangle Chert, white, scatt SH, grays 4580 MS, gray to crm/tan, earthy to massive txt, rare micro oolitic pcs, hard to dense, Chert, gray, white, blocky Δ MS, gray to crm, f-xln, chalky txt, soft to firm, rare fossils, gritty to 4590 silty txt in scatt pcs, NS F. 55 MS, crm, earthy to f-xln, firm, chalky, NS 9.1 4600 • Chert, gray, blocky, scatt SH, gray, blk 1# 4610



SH, blk, gray

CHER 5048 5050



RTD 5270' @ 1:41 AM 11/23/2016	5280
	5290
	5300
	5310
	5320
	5330
	5340