	Company: Address:	<b>OPERATOR</b> HERTEL OIL COMPANY LLC 704 E 12TH STREET HAYS, KANSAS 67601		
	Contact Geologist: Contact Phone Nbr: Well Name: Location: Pool: State:	MIKE HERTEL LARRY # 1 N2 NE SE NE Sec.15-15s-18w WILDCAT KANSAS	API: Field: Country:	15-051-26,400-00-00 UN NAMED USA
ſ		Scale 1:240 Imperial		
	Well Name: Surface Location: Bottom Location: API:	LARRY # 1 N2 NE SE NE Sec.15-15s-18w 15-051-26,400-00-00		
	License Number: Spud Date: Region:	33625 10/2/2012 ELLIS COUNTY	Time:	10:00 AM
	Drilling Completed: Surface Coordinates: Bottom Hole Coordinates: Ground Elevation:	10/9/2012 1635' FNL & 330' FEL 2005.00ft	Time:	1:07 AM
	K.B. Elevation: Logged Interval: Total Depth: Formation: Drilling Fluid Type:	2013.00ft 2900.00ft 3700.00ft LANSING-KANSAS CITY CHEMICAL/FRESH WATER GEI	To:	3700.00ft
ĺ		SURFACE CO-ORDINATI	ES	
	Well Type: Longitude: N/S Co-ord: E/W Co-ord:	Vertical 1635' FNL 330' FEL	Latitude:	
ĺ		LOGGED BY		
	Company: Address:	SOLUTIONS CONSULTING 108 W 35TH HAYS, KS 67601		
	Phone Nbr: Logged By:	(785) 639-1337 Geologist	Name:	HERB DEINES
	Contractor: Rig #: Rig Type: Spud Date: TD Date: Rig Release:	CONTRACTOR DISCOVERY DRILLING INC 4 MUD ROTARY 10/2/2012 10/9/2012 10/9/2012	Time: Time: Time:	10:00 AM 1:07 AM 11:00 PM
ĺ		ELEVATIONS		
	K.B. Elevation: K.B. to Ground:	2013.00ft Grour 8.00ft	nd Elevation:	2005.00ft
ſ		NOTES		
	RECOMMENDATION TO RUN P	RODUCTION BASED ON POSITI	/E STRUCTUI	RE AND RESULTS OF DST # 1.

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

DRILL STEM TESTS: TRILOBITE TESTING INC. 2 DSTS

## SUMMARY OF FORMATION TOPS AND CHRONOLOGY OF DAILY ACTIVITY

LARRY # 1 1635' FNL & 330' FEL, NE/4 Sec. 15-15s-19w 2004' GL 2012' KB

FORMATION	SAMPLE TOPS	LOG TOPS
Anhydrite	1212+ 800	1211+ 801
B-Anhydrite	1250+ 762	1247+ 765
Topeka	2976- 964	2984- 972
Heebner Shale	3250-1238	3253-1241
Toronto	3270-1258	3272-1260
LKC	3295-1283	3296-1284
ВКС	3540-1528	3544-1532
Conglomerate Sand		3608-1596
Reworked Arbuckle		3636-1624
Arbuckle		3656-1644
RTD	3700-1688	
LTD		3701-1689

## SUMMARY OF DAILY ACTIVITY

10-02	-12	RU,	Spud

- 10-03-12 1016', drilling, set 8 5/8" to 1219' w/ 450 sxs Common, 2%Gel, 3%CC, plug down 7:00PM, slope ¾ degree, WOC
- 10-04-12 1219', drill out plug
- 10-05-12 2292', drilling
- 10-06-12 2990', drilling
- 10-07-12 3335', drilling, short trip, DST # 1 3278'-3335' A-C, start DST # 2 3336'-3383' D-G
- 10-08-12 3409', finish DST # 2, drilling
- 10-09-12 3700', RTD @3700', short trip, logs, run production casing, RD

100					דסר			
(DA)	RILOBITE	DRILL STEM TEST REPORT       Hertel Oil Company LLC       15-15s-19w Ellis KS						
TESTING , INC.	704 E 12TH St.	/			.155-19w rry #1	EIIISKS		
		Hays KS, 67601		Job Ticket: 51006 <b>DST#:1</b>				
Minelle,		ATTN: Herb			Tes	t Start: 20	012.10.07 @ 06:30:00	
GENERAL Formation:	INFORMATION:							
Deviated: Time Tool Op				Test Type: Conventional Bottom Hole (Initial) Tester: Cody Bloedorn Unit No: 54				
Interval:         3278.00 ft (KB) To         3335.00 ft (KB) (TVD)           Total Depth:         3335.00 ft (KB) (TVD)			Reference Elevations: 2012.00 ft (KB) 2002.00 ft (CF)					
Hole Diamete		Condition: Fair				ND L	o GR/CF: 10.00 ft	
Serial #: Press@Runl Start Date: Start Time:		@ 3317.00 ft (KB) End Date: End Time:		2012.10.07 14:09:45	Capacity Last Cali Time On Time Off	b.: Btm: 2	8000.00 psig 2012.10.07 2012.10.07 @ 09:15:30 2012.10.07 @ 11:19:00	3
TESTCOM	30 - FF- B.O.B. ir	back in 18 Minutes, died b						
	Pressure vs. T	0700 Temperature		PRESSURE SUMMARY Time Pressure Temp Annotation				
1250 1250 700 200 200 200 200 200 200 200 200 20	en en exacter en exacte		100 Tempestaur (dis F)	(Min.) 0 1 15 45 46 73 123 124	(psig) 1588.19 49.45 101.57 1050.25 112.67 177.64 1038.90 1578.25	(deg F) 95.60 94.80 97.39 98.66 98.31	Initial Hydro-static Open To Flow (1) Shut-In(1) End Shut-In(1) Open To Flow (2) Shut-In(2) End Shut-In(2)	
Recovery			Gas Rates					
Length (ft) 124.00	Description GHOCM, 10% M, 40% G, 5	Volume (bbl)	,			Choke (i	nches) Pressure (psig) Gas Rate	e (Micf/d)
186.00	GMCO, 10%G, 20%M, 70							
62.00 31.00	GHOCM, 30% M, 30% O, 4 GHOCM, 10% G, 30% O, 6		_					
0.00	2883' of G.I.P.	0.00						
Trilobite 1	Festing, Inc	Ref. No: 51006				Printed	2012.10.07 @ 22:55:41	

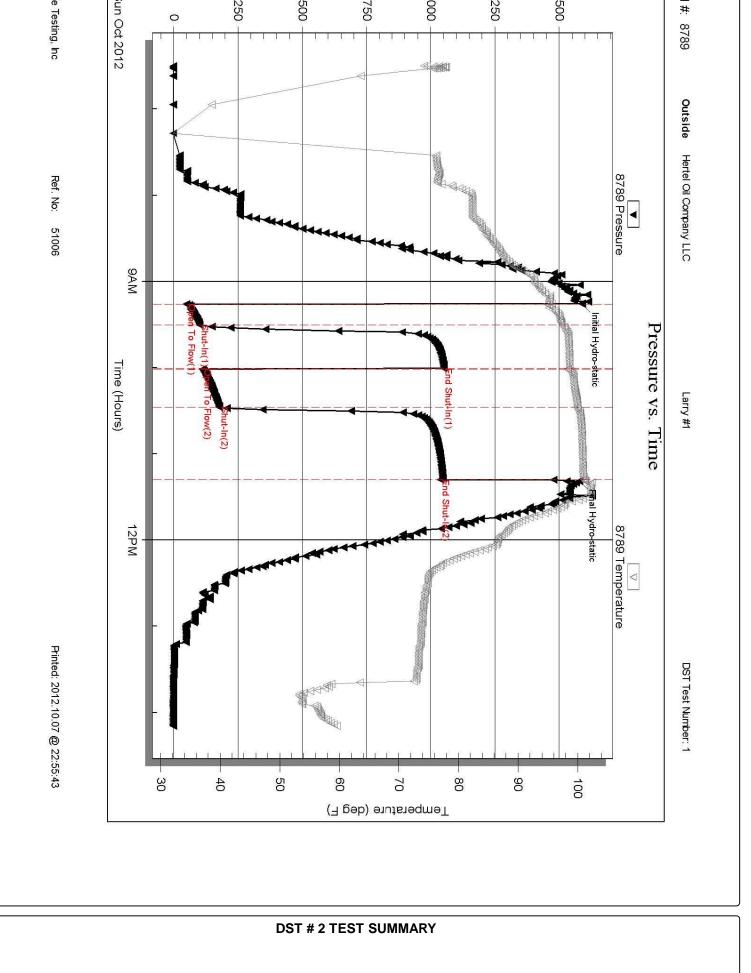
70

Trilobit

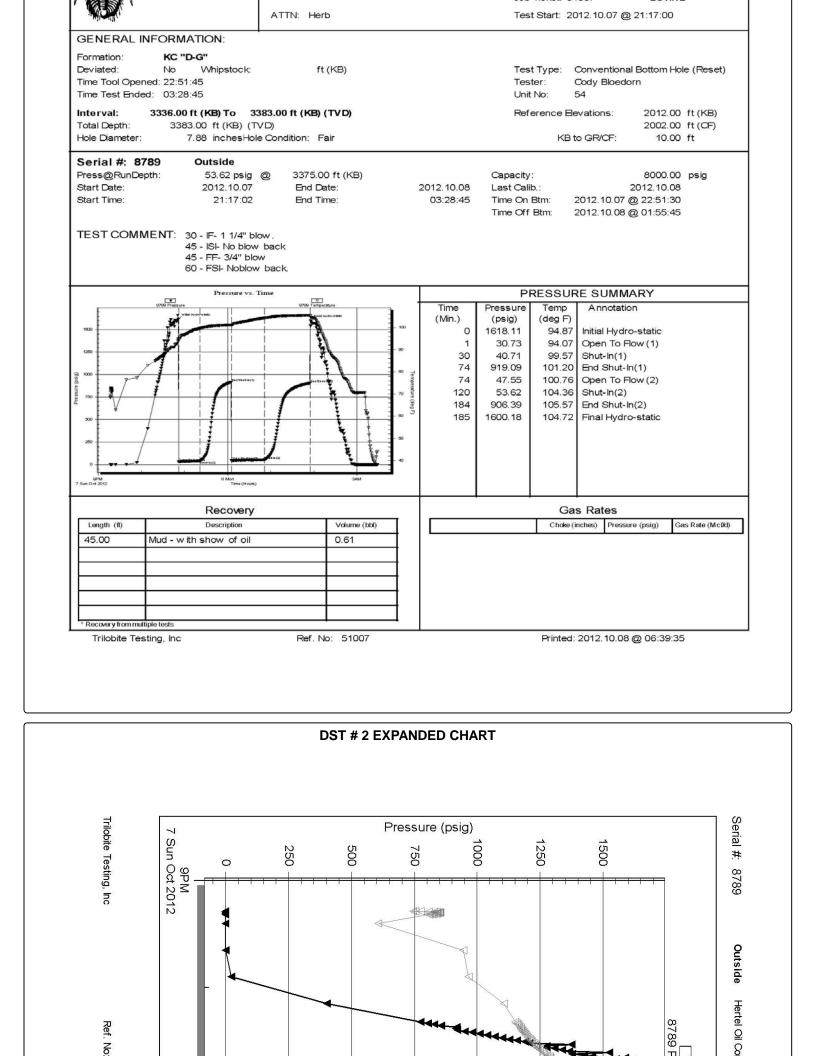
Pressure (psig)

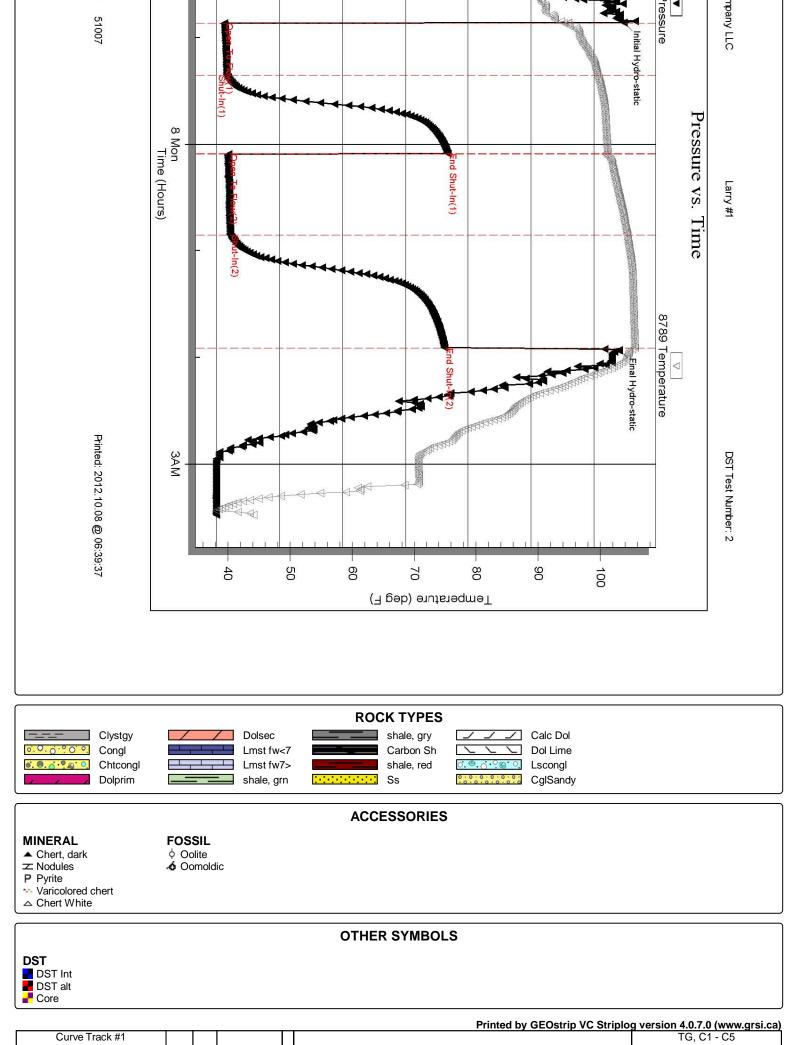
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Seria

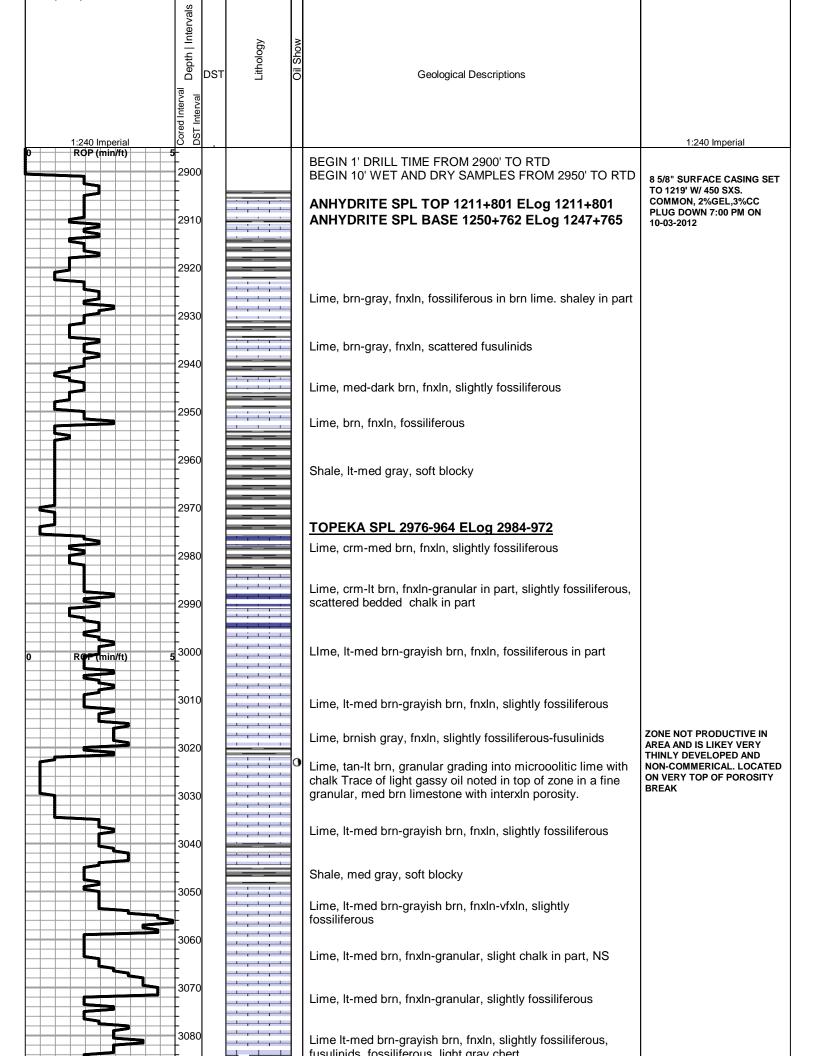


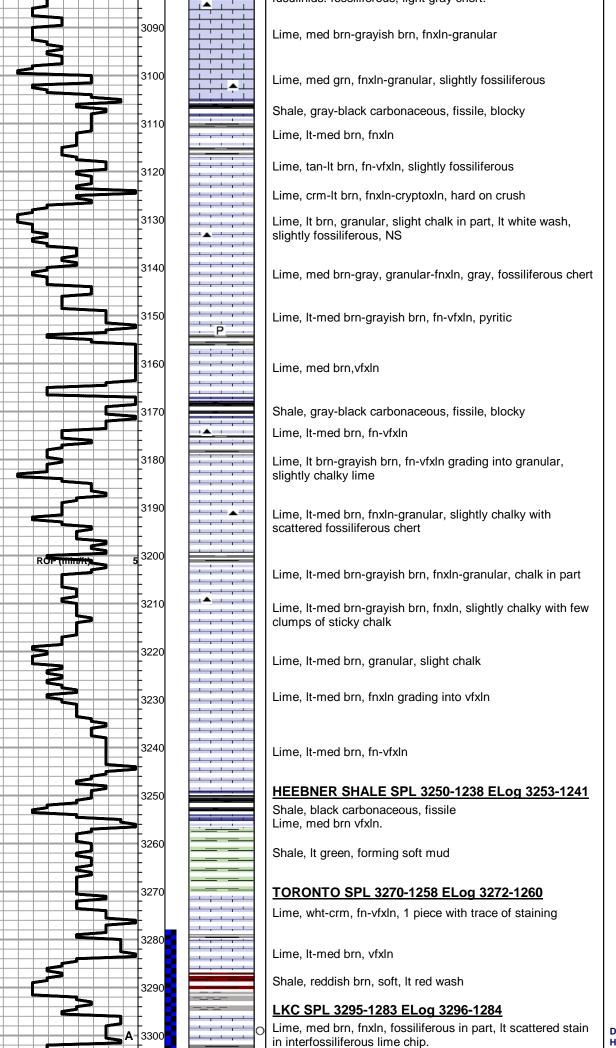






ROP (min/ft)





DST # 1 3278' TO 3335' SEE HEADER FOR TEST

