KOLAR Document ID: 1412422

Confidentiality Requested:

Yes No

Kansas Corporation Commission Oil & Gas Conservation Division

Form ACO-1
January 2018
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #	API No.:		
Name:	Spot Description:		
Address 1:	SecTwpS. R		
Address 2:	Feet from North / South Line of Section		
City: State: Zip:+	Feet from _ East / _ West Line of Section		
Contact Person:	Footages Calculated from Nearest Outside Section Corner:		
Phone: ()	□NE □NW □SE □SW		
CONTRACTOR: License #	GPS Location: Lat:, Long:		
Name:	(e.g. xx.xxxxx) (e.gxxx.xxxxx)		
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84		
Purchaser:	County:		
Designate Type of Completion:	Lease Name: Well #:		
New Well Re-Entry Workover	Field Name:		
□ Oil □ WSW □ SWD	Producing Formation:		
Gas DH EOR	Elevation: Ground: Kelly Bushing:		
☐ OG ☐ GSW	Total Vertical Depth: Plug Back Total Depth:		
CM (Coal Bed Methane)	Amount of Surface Pipe Set and Cemented at: Feet		
Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used? Yes No		
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet		
Operator:	If Alternate II completion, cement circulated from:		
Well Name:	feet depth to:w/sx cmt.		
Original Comp. Date: Original Total Depth:			
☐ Deepening ☐ Re-perf. ☐ Conv. to EOR ☐ Conv. to SWD	Drilling Fluid Management Plan		
Plug Back Liner Conv. to GSW Conv. to Producer	(Data must be collected from the Reserve Pit)		
Committed at Provider	Chloride content: ppm Fluid volume: bbls		
☐ Commingled Permit #:	Dewatering method used:		
SWD Permit #:	Location of fluid disposal if hauled offsite:		
EOR Permit #:	Location of fluid disposal if fladied offsite.		
GSW Permit #:	Operator Name:		
<u> </u>	Lease Name: License #:		
Spud Date or Date Reached TD Completion Date or	Quarter Sec TwpS. R East West		
Recompletion Date Recompletion Date	County: Permit #:		

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY				
Confidentiality Requested				
Date:				
Confidential Release Date:				
Wireline Log Received Drill Stem Tests Received				
Geologist Report / Mud Logs Received				
UIC Distribution				
ALT I II Approved by: Date:				

KOLAR Document ID: 1412422

Page Two

Operator Name: _				Lease Name:			Well #:		
Sec Twp.	S. R.	E	ast West	County:					
	flowing and shu	ut-in pressures, v	vhether shut-in pre	ssure reached st	atic level, hydrosta	tic pressures, bot		val tested, time tool erature, fluid recovery,	
Final Radioactivity files must be subm						iled to kcc-well-lo	gs@kcc.ks.gov	v. Digital electronic log	
Drill Stem Tests Ta			Yes No			on (Top), Depth ar		Sample	
Samples Sent to 0	Geological Surv	/ey	Yes No	Na	me		Тор	Datum	
Cores Taken Electric Log Run Geologist Report / List All E. Logs Ru	_		Yes No Yes No Yes No						
		B	CASING eport all strings set-c		New Used	ion, etc.			
Purpose of Strir		Hole illed	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives	
			ADDITIONAL	CEMENTING / SO	UEEZE RECORD				
Purpose:		epth T Bottom	ype of Cement	# Sacks Used		Type and F	Percent Additives		
Perforate Protect Casi Plug Back T									
Plug Off Zor									
Did you perform a Does the volume Was the hydraulic	of the total base f	fluid of the hydrauli		_	=	No (If No, sk	ip questions 2 an ip question 3) out Page Three	,	
Date of first Product Injection:	tion/Injection or R	esumed Production	Producing Meth	nod:	Gas Lift 0	Other (Explain)			
Estimated Production Per 24 Hours	on	Oil Bbls.					Gas-Oil Ratio	Gravity	
DISPOS	SITION OF GAS:		N	METHOD OF COMP	LETION:			DN INTERVAL: Bottom	
	Sold Used	I on Lease	Open Hole			mmingled mit ACO-4)	Тор	BOROTT	
,	,			B.11 B1					
Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid,	Fracture, Shot, Cer (Amount and Kind	menting Squeeze I of Material Used)	Record	
TUBING RECORD:	: Size:	Set	Δ+-	Packer At:					
TODING RECORD:	. 3126.	Set	n.	i donei Al.					

Form	ACO1 - Well Completion		
Operator	Hertel Oil Company LLC		
Well Name	REICHERT 1		
Doc ID	1412422		

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Type and Percent Additives
Surface	12.25	8.625	23	220	Common	2%Gel & 3% CC

OPERATOR

Company: HERTEL OIL COMPANY LLC

Address: 704 E 12TH STREET HAYS. KANSAS 67601

Contact Geologist: MIKE HERTEL
Contact Phone Nbr: 785-628-2445
Well Name: REICHERT # 1

Location: SW NE SE NE, SEC.9-TWP15S-RGE19W

API: 15-051-26,912-00-00

Pool: INFIELD Field: REICHERT State: KANSAS Country: USA

Scale 1:240 Imperial

Well Name: REICHERT # 1

Surface Location: SW NE SE NE, SEC.9-TWP15S-RGE19W

Bottom Location:

API: 15-051-26,912-00-00

License Number: 33625

Spud Date: 5/17/2018 Time: 12:00 PM

Region: ELLIS COUNTY

Drilling Completed: 5/22/2018 Time: 9:08 AM

Surface Coordinates: 1700' FNL & 450' FEL

Bottom Hole Coordinates:

Ground Elevation: 2038.00ft K.B. Elevation: 2046.00ft

Logged Interval: 2900.00ft To: 3717.00ft

Total Depth: 3717.00ft

Formation: LANSING-KANSAS CITY

Drilling Fluid Type: CHEMICAL/FRESH WATER GEL

SURFACE CO-ORDINATES

Well Type: Vertical
Longitude: -99.4314924
Latitude: 38.7645888
N/S Co-ord: 1700' FNL
E/W Co-ord: 450' FEL

LOGGED BY



Company: SOLUTIONS CONSULTING, INC.

Address: 108 W 35TH

HAYS, KS 67601

Phone Nbr: (785) 639-1337

Logged By: GEOLOGIST Name: HERB DEINES

CONTRACTOR

Contractor: DISCOVERY DRILLING INC.

Rig #: 1

Rig Type: MUD ROTARY

 Spud Date:
 5/17/2018
 Time:
 12:00 PM

 TD Date:
 5/22/2018
 Time:
 9:08 AM

 Rig Release:
 5/23/2018
 Time:
 8:45 AM

ELEVATIONS

K.B. Elevation: 2046.00ft Ground Elevation: 2038.00ft

K.B. to Ground: 8.00ft

NOTES

RECOMMENDATION TO PLUG AND ABANDON WELL BASED ON NEGATIVE RESULTS OF STRADDLE TEST AND LOG ANALYSIS.

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

DRILL STEM TESTING BY TRILOBITE TESTING INC: ONE(STRADDLE TEST)

SWI	HERT # 1 NE SE NE 9-15S-19W 046'	SCOTT # 1 NE SW NW NW SEC.10-15-19W KB 2037'	WILLIE # 2 S2 NW NE SE SEC.9-15-19W KB 2038'
Anhydrite top	1276 +770	+ 769	+ 779
Anhydrite base	1310 +736	+ 732	+ 741
Topeka	3026 -980	-979	-976
Heebner Sh.	3302-1256	-1257	-1252
Toronto	3322-1276	-1275	-1276
LKC	3348-1302	-1301	-1300
ВКС	3592-1546	-1545	-1540
Conglomerate sd	3665-1619	-1614	-1604
Arbuckle	3677-1631	-1621	-1620
RTD	3717-1671	-1712	-1707

SUMMARY OF DAILY ACTIVITY

5-17-18	RU, spud 12:00 PM, set 8 5/8" surface casing to 220' w/ 150 sxs
	Common 2%gel 3%CC, slope 1/8 degree, plug down 5:45 PM
5-18-18	665', drill plug 1:45 AM
5-19-18	1980', drilling
5-20-18	2665', drilling, displaced 2708' to 2730'
5-21-18	3225', drilling, CFS 3385', drilling
5-22-18	3675', CFS 3667', RTD 3717' @9:08 AM, short trip 25 stands, TOWB,
	logs, DST straddle test # 1 3490' to 3679'
5-23-18	3717', finish DST # 1, decision to plug and abandon well



Hertel Oil Company, LLC

9-15s-19w Ellis KS

704 E 12 ST

Reichert #1

Hays Ks 67601+3440

Job Ticket: 63905 DST#: 1

ATTN: Herb Deines

Test Start: 2018.05.22 @ 19:36:00

GENERAL INFORMATION:

Formation: LKC 'I'- Cg Ss

Deviated: Whipstock: ft (KB) No

Test Type: Tester: Spencer J. Staab

Time Tool Opened: 21:44:30 Time Test Ended: 02:36:15

Unit No:

Interval: 3490.00 ft (KB) To 3679.00 ft (KB) (TVD)

2048.00 ft (KB) Reference Elevations:

Total Depth: 3717.00 ft (KB) (TVD) Hole Diameter: 7.88 inchesHole Condition: Fair

2041.00 ft (CF) KB to GR/CF: 7.00 ft

Conventional Straddle (Initial)

Serial #: 9120 Inside

Press@RunDepth: 151.75 psig @ 3491.00 ft (KB)

Capacity: Last Calib.:

Time Off Btm:

Pressure

(psig)

8000.00 psig

Start Date: Start Time:

2018.05.22 19:36:15

End Date: End Time: 2018.05.23 02:36:15 Time On Btm:

Time

(Min.)

2018.05.23 2018.05.22 @ 21:44:15

Annotation

110 66 Initial Hydro statio

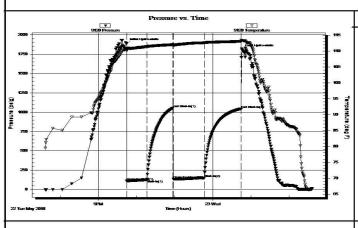
2018.05.23 @ 00:46:15

TEST COMMENT: 30-IF-Weak Blow; Built to 4&1/2"

45-ISI-No Return

45-FF-Weak Blow; Built to 5"

60-FSI-No Return



1004.79	110.66	iriillai Hydro-Static
112.26	110.07	Open To Flow (1)
127.28		Shut-In(1)
1054.35	112.03	End Shut-In(1)
136.56	111.70	Open To Flow (2)
151.75		Shut-In(2)
1044.43	113.05	End Shut-In(2)
1801.77	113.26	Final Hydro-static

Temp

(deg F)

PRESSURE SUMMARY

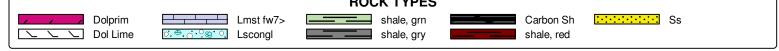
Recovery

Length (ft)	Description	Volume (bbl)
100.00	OCM 10%O 90%M	0.73
20.00	MCC 20% M 80% C	0.15

Gas Rates

Choke (inches) Pressure (psig) Gas Rate (Mcf/d)

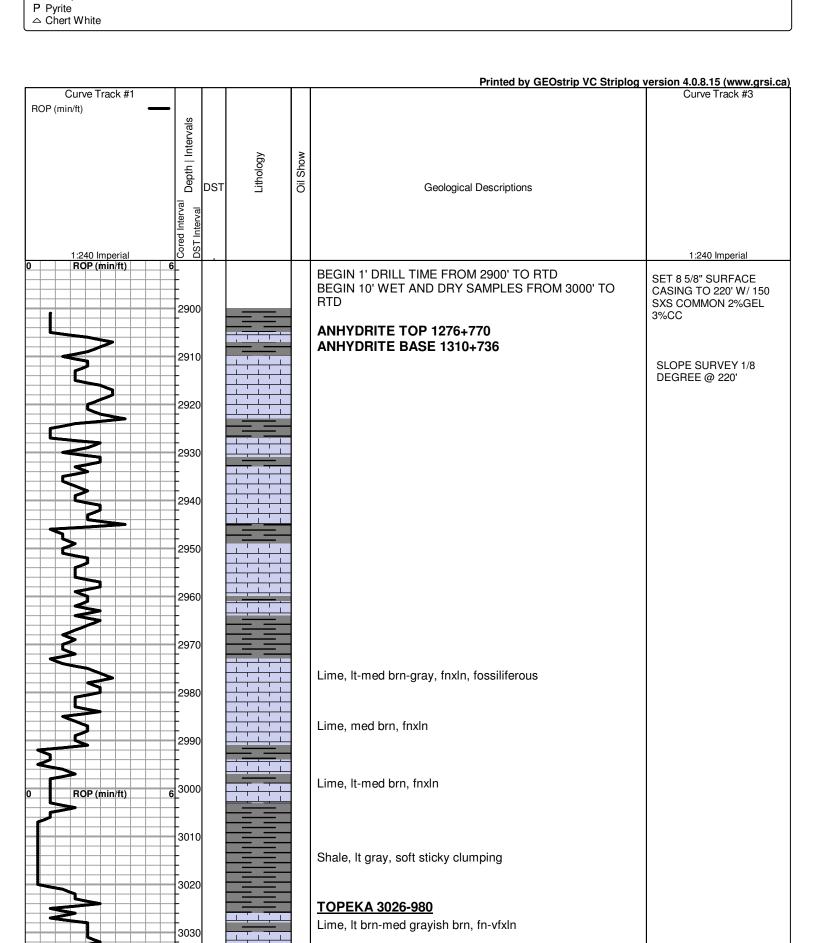
Trilobite Testing, Inc Ref. No: 63905 Printed: 2018.05.23 @ 03:15:59

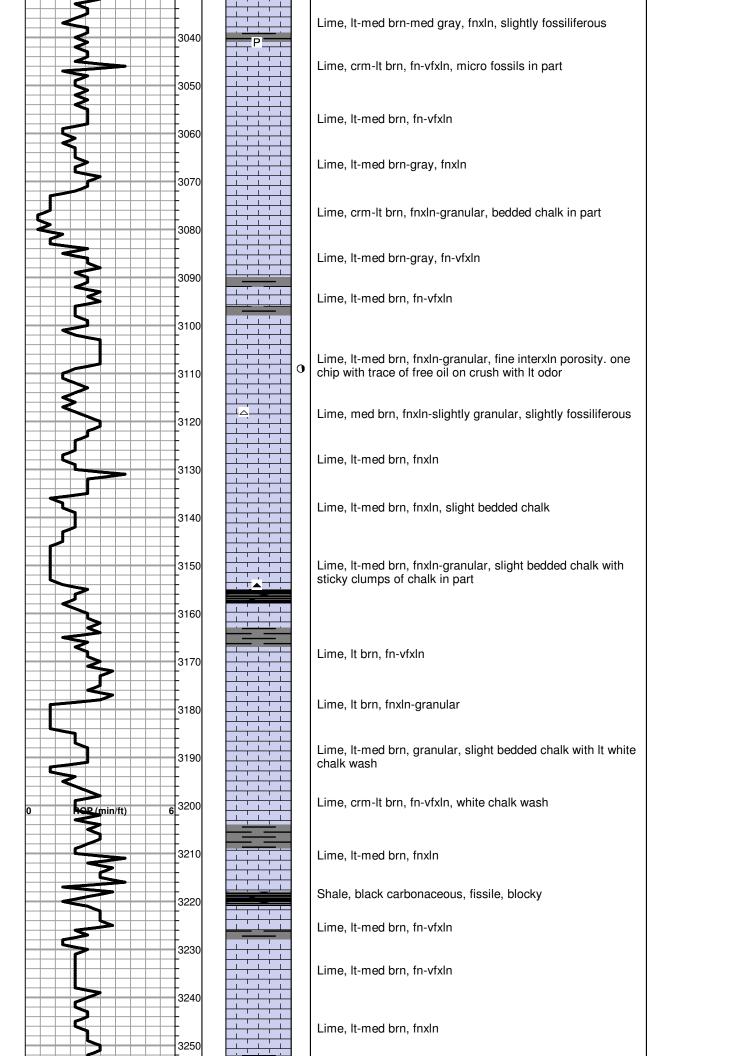


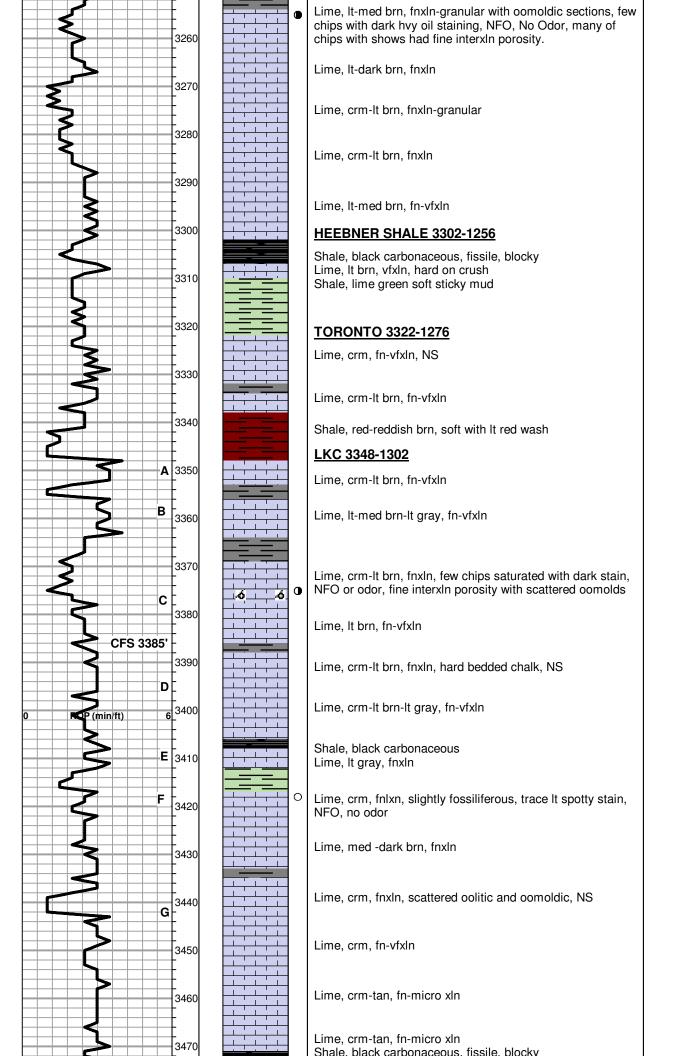
ACCESSORIES

MINERAL ▲ Chert, dark

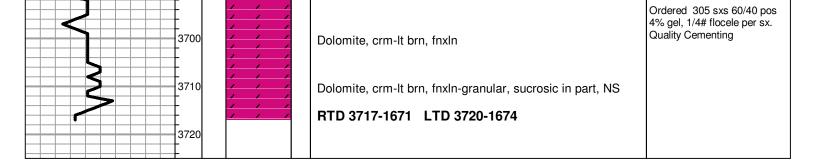
FOSSIL Oomoldic







3480 Lime, crm-lt brn, fn-micro xln, NS **H** 3490 Lime, crm-lt brn, fn-micro xln 3500 Lime, crm-lt brn-dark brn, fn-micro xln Lime, crm-tan, fnxln, scattered spotty stain, very lt odor, 3510 NFO, scattered pinpoint porosity, not well developed 3520 Lime, crm-tan, fnxln, few oomoldic chips with spotty 3530 0 staining, very It odor, NFO 3540 Lime, crm, fn-vfxln 3550 Lime, crm, fnxln, few oomoldic chips, scattered stain, NFO, 0 no odor 3560 Lime, crm-lt brn, fn-micro xln Κ Lime, crm, fn-micro xln 3570 DST # 1 STRADDLE TEST Lime, crm-tan, fn-micro xln 3490' TO 3679' SEE 3580 **HEADER FOR TEST SUMMARY** Lime, crm-tan, fn-micro xln 3590 BKC 3592-1546 Shale, red-reddish brn, soft blocky Lime, crm-lt brn, fn-micro xln, some clastic lime in part 3600 Shale, red, soft with red wash 3610 Lime, crm-lt brn, fn-micro xln with clastic lime and red shale 3620 Shale, red wash Lime, It brn, vf-micro xln 3630 Shale, red wash 3640 Lime, It brn, fn-micro xln, slightly dolomitic, orange chert fragments in part 3650 Lime, as above 3660 Shale, vari colored with It red wash **CONGLOMERATE SAND 3565-1619** CFS 3667' Sandstone, fine grained, fair sorting, saturated dark staining 3670 in few chips, NFO, very It odor 1st plug @3649' w/ 50 sxs **ARBUCKLE 3677-1631** 2nd plug @1290' w/ 50 sxs 3rd plug @ 540' w/100 sxs Dolomite, crm-lt brn, fnxln-slightly granular, NS 3680 4th plug @ 270' w/ 50 sxs 5th plug @ 40' w/10 sxs Rathole w/ 30 sxs Mousehole w/ 15 sxs Dolomite, crm, fnxln with oolitic chert in part 3690





Prepared For: Hertel Oil Company, LLC

704 E 12 St

Hays KS 67601+3440

ATTN: Herb Deines

Reichert #1

9-15s-19w Ellis,KS

Start Date: 2018.05.22 @ 19:36:00 End Date: 2018.05.23 @ 02:36:15 Job Ticket #: 63905 DST #: 1

Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



Hertel Oil Company, LLC

Reichert #1

Tester:

Unit No:

704 E 12 St

Job Ticket: 63905

9-15s-19w Ellis, KS

DST#: 1

2048.00 ft (KB)

2041.00 ft (CF)

Hays KS 67601+3440 ATTN: Herb Deines

Test Start: 2018.05.22 @ 19:36:00

84

GENERAL INFORMATION:

Formation: LKC 'I' - Conglomer

Deviated: Whipstock: Test Type: Conventional Straddle (Initial) No ft (KB)

Time Tool Opened: 21:44:30 Time Test Ended: 02:36:15

Interval: 3490.00 ft (KB) To 3679.00 ft (KB) (TVD) Reference Elevations:

Total Depth: 3717.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Spencer J. Staab

Serial #: 9120 Inside

Press@RunDepth: 3491.00 ft (KB) Capacity: 151.75 psig @ 8000.00 psig

Start Date: 2018.05.22 End Date: 2018.05.23 Last Calib.: 2018.05.23 Start Time: 19:36:15 End Time: 02:36:15 Time On Btm: 2018.05.22 @ 21:44:15

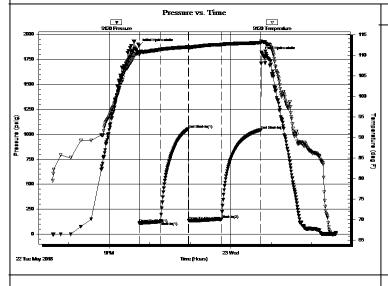
2018.05.23 @ 00:46:15 Time Off Btm:

TEST COMMENT: 30-IF-Weak Blow; Built to 4 1/2"

45-ISI-No Return

45-FF-Weak Blow: Built to 5"

60-FSI-No Return



PRESSURE SUMMARY

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	1884.79	110.66	Initial Hydro-static
1	112.26	110.07	Open To Flow (1)
32	127.28	111.46	Shut-In(1)
73	1054.35	112.03	End Shut-In(1)
74	136.56	111.70	Open To Flow (2)
123	151.75	112.64	Shut-In(2)
181	1044.43	113.05	End Shut-In(2)
182	1801.77	113.26	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
100.00	OCM 10%O 90%M	0.73
20.00	MCO 20%M 80%O	0.15
.		·

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Trilobite Testing, Inc. Ref. No: 63905 Printed: 2018.05.23 @ 08:46:02



Hertel Oil Company, LLC

Hays KS 67601+3440

Reichert #1

9-15s-19w Ellis, KS

704 E 12 St

Job Ticket: 63905

ATTN: Herb Deines

Test Start: 2018.05.22 @ 19:36:00

DST#: 1

GENERAL INFORMATION:

Formation: LKC 'I' - Conglomer

Deviated: No Whipstock: ft (KB) Test Type: Conventional Straddle (Initial)

Time Tool Opened: 21:44:30 Time Test Ended: 02:36:15

Interval: 3490.00 ft (KB) To 3679.00 ft (KB) (TVD)

Total Depth: 3717.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Tester: Spencer J. Staab

Unit No: 84

Reference Elevations: 2048.00 ft (KB)

2041.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8368 Outside

 Press@RunDepth:
 psig
 @
 3491.00 ft (KB)
 Capacity:
 8000.00 psig

Start Date: 2018.05.22 End Date: 2018.05.23 Last Calib.: 2018.05.23

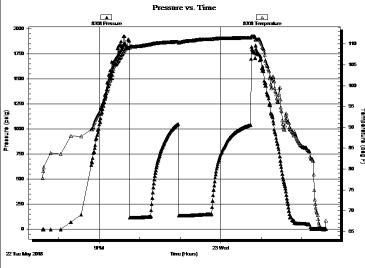
Start Time: 19:36:15 End Time: 02:36:15 Time On Btm: Time Off Btm:

TEST COMMENT: 30-IF-Weak Blow; Built to 4 1/2"

45-ISI-No Return

45-FF-Weak Blow; Built to 5"

60-FSI-No Return



PRESSURE SI	UMMARY
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TREGOGILE GOWNALL						
Time	Pressure	Temp	Annotation			
(Min.)	(psig)	(deg F)				
		Time Pressure	Time Pressure Temp			

Recovery

Length (ft)	Description	Volume (bbl)
100.00	OCM 10%O 90%M	0.73
20.00	MCO 20%M 80%O	0.15
ļ		·

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mct/d)
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Trilobite Testing, Inc Ref. No: 63905 Printed: 2018.05.23 @ 08:46:02



Hertel Oil Company, LLC

Hays KS 67601+3440

9-15s-19w Ellis, KS

704 E 12 St

Reichert #1 Job Ticket: 63905

Tester:

Unit No:

ATTN: Herb Deines

Test Start: 2018.05.22 @ 19:36:00

GENERAL INFORMATION:

Formation: LKC 'I' - Conglomer

Deviated: Whipstock: Test Type: Conventional Straddle (Initial) No ft (KB)

Time Tool Opened: 21:44:30 Time Test Ended: 02:36:15

Interval:

3490.00 ft (KB) To 3679.00 ft (KB) (TVD) Reference Elevations:

Total Depth: 3717.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF:

7.00 ft

Spencer J. Staab

DST#: 1

2048.00 ft (KB)

2041.00 ft (CF)

Serial #: 8934 Below (Straddle)

Press@RunDepth: 3682.00 ft (KB) psig @ Capacity: 8000.00 psig

Start Date: 2018.05.22 End Date: 2018.05.23 Last Calib.: 2018.05.23

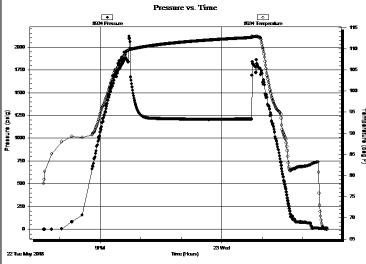
Start Time: 19:36:15 End Time: Time On Btm: 02:36:15 Time Off Btm:

TEST COMMENT: 30-IF-Weak Blow; Built to 4 1/2"

45-ISI-No Return

45-FF-Weak Blow: Built to 5"

60-FSI-No Return



PRESSURE SU	JMMARY
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	Time	Pressure	Temp	Annotation				
	(Min.)	(psig)	(deg F)					
ı								
T mg								
Temperature (deg F)								
2								
3								

Recovery

Length (ft)	Description	Volume (bbl)
100.00	OCM 10%O 90%M	0.73
20.00	MCO 20%M 80%O	0.15
.		·

Gas Rates

Choke (inches) Pressure (psig) Gas Rate (Mcf/d)

Trilobite Testing, Inc. Ref. No: 63905 Printed: 2018.05.23 @ 08:46:02



TOOL DIAGRAM

Hertel Oil Company, LLC

9-15s-19w Ellis, KS

704 E 12 St

Reichert #1 Job Ticket: 63905

DST#: 1

Hays KS 67601+3440 ATTN: Herb Deines

Test Start: 2018.05.22 @ 19:36:00

Tool Information

Drill Collar:

Drill Pipe: Heavy Wt. Pipe: Length:

Length: 3379.00 ft Diameter: 120.00 ft Diameter: 0.00 ft Diameter:

Diameter:

3.82 inches Volume: 47.90 bbl 2.75 inches Volume: 0.88 bbl 2.25 inches Volume: 0.00 bbl

48.78 bbl

Total Volume:

Tool Weight: 2000.00 lb Weight set on Packer: 25000.00 lb Weight to Pull Loose: 64000.00 lb

Drill Pipe Above KB: 32.00 ft Depth to Top Packer: 3490.00 ft

Length:

3679.00 ft

Tool Chased 0.00 ft String Weight: Initial 50000.00 lb Final 50000.00 lb

Depth to Bottom Packer: Interval between Packers: 189.00 ft Tool Length: 250.00 ft

6.75 inches

Number of Packers: Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3468.00		
Shut In Tool	5.00			3473.00		
Hydraulic tool	5.00			3478.00		
Safety Joint	3.00			3481.00		
Packer	5.00			3486.00	23.00	Bottom Of Top Packer
Packer	4.00			3490.00		
Stubb	1.00			3491.00		
Recorder	0.00	9120	Inside	3491.00		
Recorder	0.00	8368	Outside	3491.00		
Change Over Sub	1.00			3492.00		
Drill Pipe	155.00			3647.00		
Change Over Sub	1.00			3648.00		
Perforations	26.00			3674.00		
Blank Off Sub	1.00			3675.00		
top of s.packer	4.00			3679.00	189.00	Tool Interval
Packer	0.00			3679.00		
Stubb	1.00			3680.00		
Perforations	1.00			3681.00		
Change Over Sub	1.00			3682.00		
Recorder	0.00	8934	Below	3682.00		
Drill Pipe	31.00			3713.00		
Change Over Sub	1.00			3714.00		
Bullnose	3.00			3717.00	38.00	Bottom Packers & Anchor
Total Tool Length	: 250.00					

Trilobite Testing, Inc Ref. No: 63905 Printed: 2018.05.23 @ 08:46:02



FLUID SUMMARY

ppm

Hertel Oil Company, LLC

9-15s-19w Ellis, KS

704 E 12 St

Reichert #1 Job Ticket: 63905

DST#: 1

Hays KS 67601+3440

ATTN: Herb Deines

Test Start: 2018.05.22 @ 19:36:00

Water Salinity:

Mud and Cushion Information

ohm.m

Mud Type: Gel Chem Cushion Type: Oil API: 33 deg API

Mud Weight: Cushion Length: 9.00 lb/gal ft Viscosity: 60.00 sec/qt

Cushion Volume: bbl

6.39 in³ Gas Cushion Type:

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm Filter Cake: inches

Recovery Information

Water Loss:

Resistivity:

Recovery Table

Length ft	Description	Volume bbl
100.00	OCM 10%O 90%M	0.735
20.00	MCO 20%M 80%O	0.147

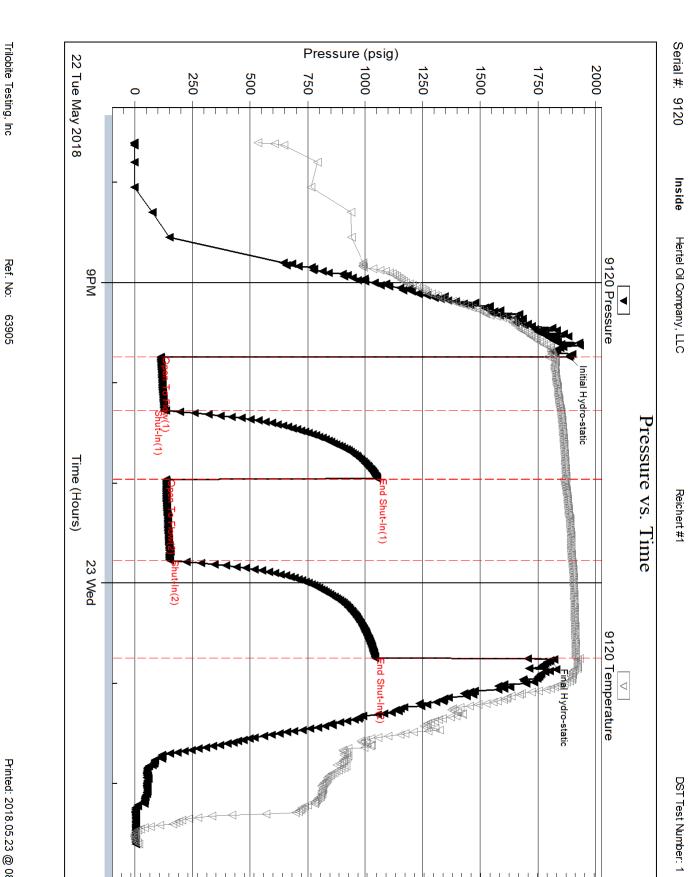
Total Length: 120.00 ft Total Volume: 0.882 bbl

Num Fluid Samples: 0 Num Gas Bombs: Serial #:

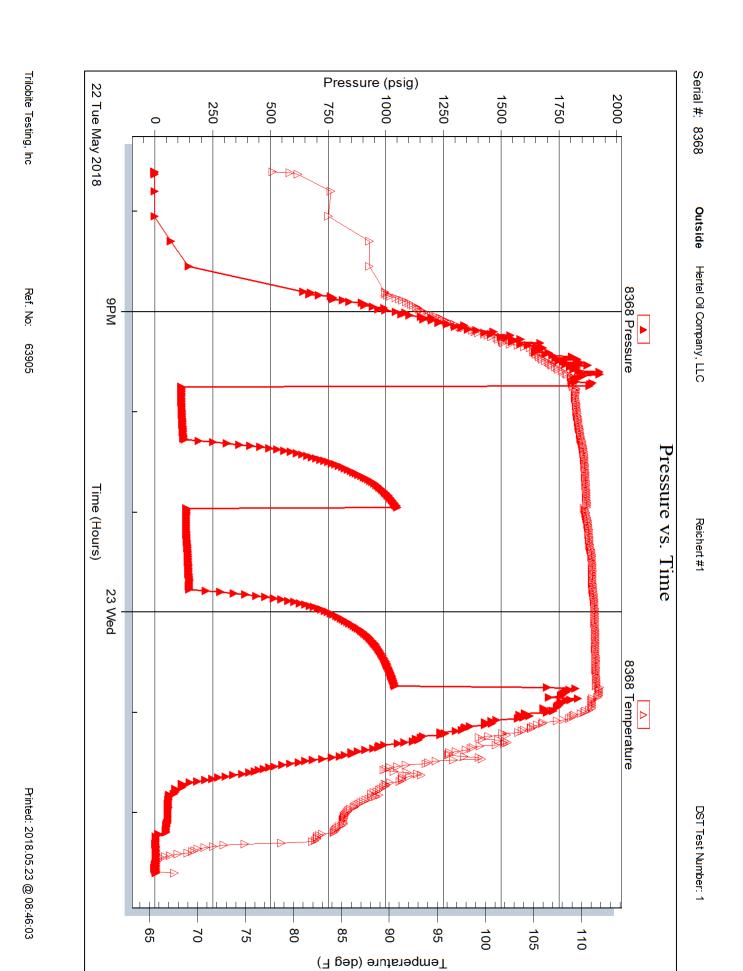
Laboratory Name: Laboratory Location:

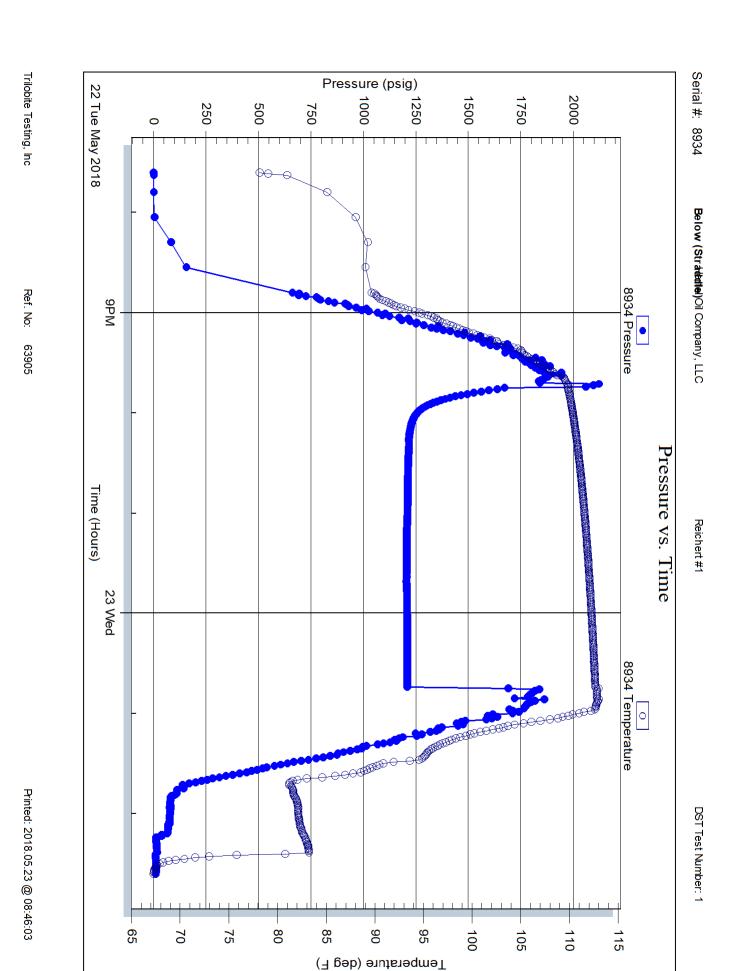
Recovery Comments: 2#LCM

Printed: 2018.05.23 @ 08:46:02 Trilobite Testing, Inc Ref. No: 63905



Temperature (deg F)







1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63905

The state of the s		
Well Name & No. Reichert #1	/Test No/	Date 65/22/2018
Company Hertel Oil Compa	iny LC Elevation 20	
Address 704 & 257	1 Hays 2/2 67601	+3440
Co. Rep/Geo. Herb Deines	1	covery #/
Location: Sec. 9 Twp	A Rge. 19 w Co. Elles	State Hs
Interval Tested 3490' - 3679'	Zone Tested LHC (1)	- GSs
Anchor Length 189 38 ta	L Drill Pipe Run 3379	Mud Wt 9, 4
Top Packer Depth 3496	Drill Collars Run	Vis60
Bottom Packer Depth 3679	Wt. Pipe Run 120'	WL 6.4
Total Depth 3717	Chlorides 5.000 ppm	System LCM 2#
Blow Description 27- Weak Blow;	Built to 42"	
Job To Kotym	/ / //	
FT- Work Blow, Built to	5	
Rec_ /60' Feet of OCM	%gas /	∕ ⊘ %oil %water % %mud
Rec 20 Feet of MCO	%gas %	3
Rec Feet of	%gas	%oil %water %mud
Rec Feet of	%gas	%oil %water %mud
Rec Feet of	%gas	%oil %water %mud
Rec Total 126 BHT	Gravity 33° API RW @	*F Chloridesppm
(A) Initial Hydrostatic SSL	Test1050	T-On Location 18.41
(B) First Initial Flow 112		T-Started
(C) First Final Flow 127	Safety Joint	T-Open_21: 43
(D) Initial Shut-In 1054	Circ Sub	T-Pulled 60 : 43
(E) Second Initial Flow/36	Hourly Standby	T-Out <u>62:35</u>
(F) Second Final Flow	Mileage 32 R7 32	Comments Loaded looks
(G) Final Shut-In	Sampler	
(H) Final Hydrostatic /80/	Straddle 600	D. Buined Shale Bastres
	☐ Shale Packer	☐ Ruined Shale Packer
Initial Open _ 30	Extra Packer	Ruined Packer
Initial Shut-In 45	Extra Recorder	Sub Total 0
Final Flow 45	Day Standby	Total 1682
Final Shut-In60	Accessibility	MP/DST Disc't
-	Sub Total 1682	2 1 2 11
Approved By	Our Representative	pencer Atral Than

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

785-259-005

GLOBAL OIL FIELD SERVICES, LLC

REMIT TO 24 S. Lincoln Russell, KS 67665				S	SERVICE POINT (Sell				
	SECO	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB EINISH		
DATE 5-17-	15 7	13	17			COTINTY	STATE		
LEASERCICA	WELL#.		LOCATION #	Antonino 2	WIES	COUNTY	کی ا		
OLD ON NEW	(CIRCLE ONE)								
	0		<u> </u>						
CONTRACTOR		URKY	***	OWNER					
TYPE OF JOB	SURFA		200						
HOLE SIZE	1 2 3	T.1	D. <u>220</u> ВРТН	CEMENT					
CASING SIZE TUBING SIZE			epth	AMOUNT C	ORDERED				
DRILL PIPE			PTH	150	ODI Can	3-2			
TOOL			PTH						
PRES. MAX		M	NIMUM	COMMON		_ @			
MEAS. LINE		SH	IOE JOINT	POZMIX_		_ @			
CEMENT LEFT IN	CSG.			GEL		. @			
PERFS		-11		CHLORIDE					
DISPLACEMENT	/					_ •	#		
	EQUIPME	ENT				-			
			,			_ @			
PUMP TRUCK	CEMENTER _	- 13 //							
# BULK TRUCK	HELPER	7	Moody	/		_ @			
#	DRIVER	RIA	1/e+			_			
BULK TRUCK	DRIVER		/ /						
#	DRIVER					_			
				HANDLING	l	~			
				MILEAGE					
	DT9.4	ADIZC.	Y _{eq}			TOTA	AL		
	KEM	ARKS:							
Runs	to o	バーデー	S pot 6	230	SE	RVICE			
· 2m+	15004	Con	ያ - <u>ኒ</u>	DEPTH OF J	iob				
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Cont d	id CiR	۲.		MANIFOLD		- @			
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CHARGE TO:	H exte	F 12	4 65			TOTA	aL		
CTTY	STATE	∕ Zī	67601-	<u>34</u> 40	PLUG & FLO	AT EQUIPME	ENT		
		e de la companya de l					•		
Global Oil Fi	eld Services	. LLĈ							
			nting equipment	t and		_ @ _ @			
			wner or contrac						
do work as is li	isted. The above	ve work was	s done to satisfa	ection		- @			
and supervision	of owner age	nt or contra	ctor. I have read	d and		- @			
		TERMS A	ND CONDITION	ONS"					
listed on the rev	verse side.					TOTA	VL		
PRINTED NAME.			···	SALES TAX	(If Any)				
,	Sel/m	1/0	,	TOTAL CHA			·		
SIGNATURE		The C		DISCOUNT	1 44 4 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		IF PAID IN 30 DAYS		