KOLAR Document ID: 1418771

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:	
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:
	Producing Formation:
☐ Oil ☐ WSW ☐ SWD	Elevation: Ground: Kelly Bushing:
☐ Gas ☐ DH ☐ EOR	Total Vertical Depth: Plug Back Total Depth:
☐ OG ☐ GSW	Amount of Surface Pipe Set and Cemented at: Feet
CM (Coal Bed Methane)	
Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used?
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)
Described	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 flauled offsite.
GSW Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	Quarter Sec TwpS. R
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 III Approved by: Date:							

KOLAR Document ID: 1418771

Page Two

Operator Name:					Lease Nam	ne:			Well #:	
Sec Tw	pS. F	R [East	West	County:					
INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).										
Drill Stem Tests (Attach Addit			Ye	es No		Lo	og Formatio	n (Top), Deptl	n and Datum	Sample
Samples Sent to	Geological Sur	vey	Ye	es 🗌 No		Name)		Тор	Datum
Cores Taken Electric Log Run Geologist Repor List All E. Logs F	t / Mud Logs		Y€ Y€	es No						
			Repo		RECORD [Nev	w Used rmediate, producti	on. etc.		
Purpose of St		ze Hole Orilled	Siz	e Casing (In O.D.)	Weight Lbs. / Ft.		Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
				ADDITIONAL	OF MENTING /					
Purpose:	[Depth	Typo		# Sacks Use		EEZE RECORD	Typo a	ad Paraant Additivas	
Perforate Protect Ca Plug Back	Top	Bottom	туре	Type of Cement # \$		d Type and Percent Additives				
Plug Off Z										
Did you perform Does the volum Was the hydraul	e of the total base	fluid of the hyd	draulic fra	cturing treatmen		•	Yes ns? Yes	No (If No	, skip questions 2 an , skip question 3) , fill out Page Three o	,
Date of first Produ	ction/Injection or	Resumed Produ	uction/	Producing Meth			Coolift 0	thor (Fundain)		
Estimated Produc	otion	Oil Bb	le.	Flowing Gas	Pumping Gas Lift Other (Explain) Mcf Water Bbls. Gas-Oil Ratio			Gravity		
Per 24 Hours		Oli Bb	15.	Gas	Mcf	Wate	ı Di	JIS.	Gas-Oil Ratio	Gravity
DISPO	OSITION OF GAS	S:		N	METHOD OF CO	MPLE.	TION:		PRODUCTIO	N INTERVAL:
Vented	Sold Use	d on Lease		Open Hole		Dually		nmingled	Тор	Bottom
(If vente	ed, Submit ACO-18	.)			(5	SUDITIIL I	ACO-5) (Subi	mit ACO-4)		
Shots Per Foot	Perforation Top	Perforation Bottom				Record				
TUBING RECOR	D: Size:		Set At:		Packer At:					

Form	ACO1 - Well Completion			
Operator	H & B Petroleum Corp.			
Well Name	HEWITT 1			
Doc ID	1418771			

Tops

Name	Тор	Datum
Anhydrite	632	
Heebner	3065	
Toronto	3083	
Brown Lime	3196	
Lansing	3212	
Kansas City	3417	
Simpson	3432	
Arbuckle	3476	

Form	ACO1 - Well Completion			
Operator	H & B Petroleum Corp.			
Well Name	HEWITT 1			
Doc ID	1418771			

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	24	637	Common		3% calcium 2% gel
Production	7.875	5.5	17	3550	Common	245	10% salt 2% gel 2% plaster

GLOBAL OIL FIELD SERVICES, LLC

IF PAID IN 30 DAYS

24 S. Lincoln REMIT TO SERVICE POINT: Russell, KS 67665 CALLED OUT ON LOCATION JOB FINISH RANGE JOB START DATE COUNTY STATE LEASE HOW HE Stafford WELL# OLD OR NEW (CIRCLE ONE) CONTRACTOR OWNER TYPE OF JOB Surface HOLE SIZE T.D. CEMENT CASING SIZE DEPTH AMOUNT ORDERED **TUBING SIZE** DEPTH DRILL PIPE DEPTH TOOL DEPTH PRES. MAX MINIMUM COMMON MEAS, LINE SHOE JOINT POZMIX_ CEMENT LEFT IN CSG. GEL_ PERFS CHLORIDE DISPLACEMENT ASC. EQUIPMENT PUMP TRUCK CEMENTER HELPER BULK TRUCK (a) DRIVER (a) BULK TRUCK (a) (a) HANDLING. (a) MILEAGE TOTAL **REMARKS: SERVICE** DEPTH OF JOB-PUMP TRUCK CHARGE EXTRA FOOTAGE_ a, MILEAGE _ (a) MANIFOLD. (a) @ a, CHARGE TO: _ TOTAL STREET ____ STATE -ZIP PLUG & FLOAT EQUIPMENT Global Oil Field Services, LLC You are hereby requested to rent cementing equipment and @ furnish cementer and helper(s) to assist owner or contractor to @ do work as is listed. The above work was done to satisfaction (a) and supervision of owner agent or contractor. I have read and a, understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side. Thank you TOTAL _ PRINTED NAME _____ SALES TAX (If Any) TOTAL CHARGES_

DISCOUNT____

SIGNATURE

IF PAID IN 30 DAYS

GLOBAL OIL FIELD SERVICES, LLC

REMIT TO	24 S. Linco	ln		SE	RVICE POINT:	D	سه دا .
KEWII 10	Russell, KS			¥		R425211	125
1,0)		
1 1/1	SEC. 9	TWP RANGE	LCA CA	LLED OUT	ON LOCATION	JOB START	JOB FINISH
DATE //	10	1213				COUNTY	STATE
LEASE HEWIT	WELL#.	LOCATION	N 5 -2444	of Ellin	wood Zwis	1	K5
OLD OR NEW	(CIRCLE ONE)	· kus	l. 307/15			stational	
025 011 (5)	(OLICEL CITE)	1/4 201	1+ h DW-	24 MA+C	11 /		
CONTRACTOR	Southwind S.	rith wind Drivi	las Pict	OWNER	H+B		
TYPE OF JOB	Legg Storag	1911	113				
HOLE SIZE	<u> </u>	T.D. 355	32'	CEMENT	DERED 245	- 1000 Mar 1849	10%
CASING SIZE	3/2	DEPTH 35	50°	AMOUNT OF	DERED 273	X Com	1010
TUBING SIZE		DEPTH		2 % 50	1 2/0/4	3746	
DRILL PIPE		DEPTH					
TOOL		DEPTH					
PRES. MAX	1900 psi	MINIMUM		COMMON_		. @	_
MEAS, LINE	d.	SHOE JOINT	14.5	POZMIX		. @	
CEMENT LEFT IN	ICSG. 45			GEL		_ @	
PERFS				CHLORIDE _	The state of the s	. @	
DISPLACEMENT	GS VH	<u> </u>		ASC		_ @	
	EQUIPME	VT	0	4		. @	
	- Kar			-		_ @	_
PUMP TRUCK		oely				_ @	
# 409	HELPER	Brak				<u>@</u>	
BULK TRUCK		2				- @ ———	
# 7//	DRIVER /	on				- @	
BULK TRUCK	DDHÆD						
#	DRIVER		- 17	TANDY DIG		- @	=
				HANDLING_		. @	
				MILEAGE	17	TOTA	AT .
20	REMA	RKS:				1011	
Ran 89:200	534 CASILLA ES	rableyed Cursintation of	Wormed hall				4
Put 305x70 Ro	athor 1512 man	e hale Durand Why of H	ros alaked		SE	RVICE	₹/:
britisy JOOSTO	f Cement Knoke	doft + Reisoned Pla	y Displayed	·			17
Sould prof	tra located play	with later bais		DEPTH OF JO			
				PUMP TRUCK			
-	(A)			EXTRA FOOT	AGE	- @ ———	
-				MILEAGE		- @	300 (2)
				MANIFOLD		9	
		* ×				- @ ———	
	HER PL	etro Leum				_ @	
CHARGE TO:	11 40 14	CALO EGUA				TOTA	AT
STREET					3	101	
CITY	STATE	ZIP					73.777
CITT	JIIL —			(*)		AT EQUIPMI	
				5/2/0	Molaus + Plu	6 54	Guide The
Global Oil Fi	eld Services,	HC		11.11	tree bb	J	
Voil are hereby	v requested to	rent cementing equip	oment and	6 Turpal	145 36	_ @ _ @	_
firmich coments	er and helmer(s)	to assist owner or co	entractor to			_ @	
do work on in li	isted The show	e work was done to s	satisfaction			- @	
		t or contractor. I hav				- 	
and supervision	"GENERAL"	TERMS AND CON	DITIONS"	. In		_ w	
listed on the rev	verse side	LLIND THID COIL			Gr.	TOT	AL
HOWA OH THE LE	orge arde.				-	101.	

SALES TAX (If Any)
TOTAL CHARGES_

DISCOUNT



Prepared For: H&B Petroleum Corp

PO Box 1305

Hutchinson KS 67504

ATTN: Jim Musgrove

Hewitt #1

9-21s-12w Stafford,KS

Start Date: 2018.07.11 @ 00:20:34

End Date:

2018.07.11 @ 07:31:28

Job Ticket #: 64234

DST#: 1

Trilobite Testing, Inc. 1515 Commerce Parkway Hays, KS 67601 ph: 785-625-4778 fax: 785-625-5620



H&B Petroleum Corp

9-21s-12w Stafford, KS

Hewitt #1

PO Box 1305 Hutchinson KS 67504

Job Ticket: 64234

ATTN: Jim Musgrove

Test Start: 2018.07.11 @ 00:20:34

GENERAL INFORMATION:

LKC A-D

Deviated:

No Whipstock: ft (KB)

Test Type: Conventional Bottom Hole (Initial)

Time Tool Opened: 03:09:59 Time Test Ended: 07:31:28

Tester: Unit No: 77

Ray Schwager

Interval:

3198.00 ft (KB) To 3258.00 ft (KB) (TVD)

Reference Elevations:

1848.00 ft (KB)

Total Depth:

3258.00 ft (KB) (TVD)

1838.00 ft (CF)

Hole Diameter:

7.88 inches Hole Condition: Fair

KB to GR/CF:

10.00 ft

Serial #: 8360 Press@RunDepth: Inside

24.84 psig @

3202.00 ft (KB)

Capacity:

8000.00 psig

Start Date:

2018.07.11

End Date:

2018.07:11

2018.07.11 Last Calib.:

Start Time:

00:20:34

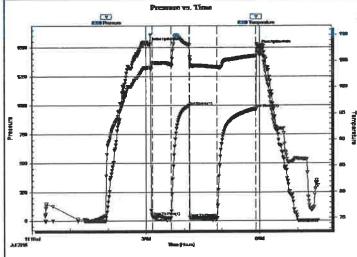
End Time:

07:31:28

Time On Btm: Time Off Btm: 2018.07.11 @ 03:05:44 2018.07.11 @ 05:58:28

TEST COMMENT: 30-IFP-BOB gas to surface in 15 min

30-ISIP-no blow 45-FFP-Gas to surface 60-FSIP-no blow



	PRESSURE SUMMARY									
1	Time	Pressure	Temp	Annotation						
	(Min.)	(psig)	(deg F)							
	0	1527.86	103.76	Initial Hydro-static						
	5	41.82	104.46	Open To Flow (1)						
	34	26.07	104.31	Shut-In(1)						
	63	998.30	108.04	End Shut-In(1)						
1	64	30.78	105.70	Open To Flow (2)						
	107	24.84	103.83	Shut-ln(2)						
	169	973.47	106.00	End Shut-In(2)						
	173	1500.20	106.44	Final Hydro-static						

Recovery

Length (ft)	Description	Volume (bbl)
0.00	GTS	0.00	
35.00	GCM 10%G90%M w /show of oil	0.49	\

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	4.00	29.19
Last Gas Rate	0.25	2.00	26.02
Max. Gas Rate	0.25	4.00	29.19



H&B Petroleum Corp

PO Box 1305 Hutchinson KS 67504

ATTN: Jim Musgrove

ft (KB)

9-21s-12w Stafford, KS

Hewitt #1

Job Ticket: 64234

DST#: 1

Test Start: 2018.07.11 @ 00:20:34

GENERAL INFORMATION:

Formation:

LKC A-D

Deviated:

No Whipstock:

Time Tool Opened: 03:09:59 Time Test Ended: 07:31:28

Interval:

3198.00 ft (KB) To 3258.00 ft (KB) (TVD)

Total Depth:

3258.00 ft (KB) (TVD)

Outside

Hole Diameter:

7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester:

Ray Schwager

Unit No:

Reference Elevations:

1848.00 ft (KB)

1838.00 ft (CF)

KB to GR/CF:

10.00 ft

Serial #: 8673

Press@RunDepth:

psig @

3202.00 ft (KB) End Date:

2018.07.11

Capacity: Last Calib.: 8000.00 psig

2018.07.11

Time On Btm:

Start Time:

Start Date:

2018.07.11 00:20:09

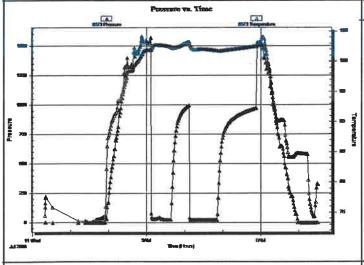
End Time:

07:30:33

Time Off Btm:

TEST COMMENT: 30-IFP-BOB gas to surface in 15 min

30-ISIP-no blow 45-FFP-Gas to surface 60-FSIP-no blow



PRESSURE SUMMARY

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
	I .		

Recovery

Description	Volume (bbl)
GTS	0.00
GCM 10%G90%M w /show of oil	0.49
֡֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜	GTS

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	4.00	29.19
Last Gas Rate	0.25	2.00	26.02
Max. Gas Rate	0.25	4.00	29.19

Ref. No: 64234

Printed: 2018.07.16 @ 14:52:19



TOOL DIAGRAM

H&B Petroleum Corp

ATTN: Jim Musgrove

9-21s-12w Stafford, KS

PO Box 1305

Hutchinson KS 67504

Hewitt #1

Job Ticket: 64234

DST#: 1

Test Start: 2018.07.11 @ 00:20:34

Tool Information

Drill Pipe Above KB:

Depth to Top Packer:

Number of Packers:

Drill Pipe:

Drill Collar:

Length:

Heavy Wt. Pipe: Length:

Length: 3200.00 ft Diameter:

25.00 ft

0.00 ft Diameter: 0.00 ft Diameter:

3.80 inches Volume: 0.00 inches Volume: 0.00 inches Volume:

Total Volume:

44.89 bbl 0.00 bbl 0.00 bbl

Tool Weight: 44.89 bbl

2200.00 lb Weight set on Packer: 25000.00 lb Weight to Pull Loose: 55000.00 lb

Tool Chased

0.00 ft

38000.00 lb

String Weight: Initial 38000.00 lb

Final

3198.00 ft ft

Depth to Bottom Packer: Interval between Packers:

60.00 ft

83.00 ft 2

Diameter:

6.75 inches

Tool Comments:

Tool Length:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3176.00		
Shut In Tool	5.00			3181.00		
Sampler	2.00			3183.00		
Hydraulic tool	5.00			3188.00		
Packer	5.00			3193.00	23.00	Bottom Of Top Packer
Packer	5.00			3198.00		
Stubb	1.00			3199.00		
Perforations	3.00			3202.00		
Recorder	0.00	8360	Inside	3202.00		
Recorder	0.00	8673	Outside	3202.00		
Blank Spacing	33.00			3235.00		
Perforations	20.00			3255.00		
Bullnose	3.00			3258.00	60.00	Bottom Packers & Anchor

Total Tool Length:

83.00

Ref. No: 64234



FLUID SUMMARY

H&B Petroleum Corp

9-21s-12w Stafford, KS

PO Box 1305

Hewitt #1

Hutchinson KS 67504

Job Ticket: 64234

DST#: 1

ATTN: Jim Musgrove

Test Start: 2018.07.11 @ 00:20:34

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight:

9.00 lb/gal

Cushion Length:

Water Salinity:

ppm

Viscosity:

49.00 sec/qt 9.55 in³

Cushion Volume:

ft bbl

Water Loss: Resistivity:

ohm.m

Gas Cushion Type:

Gas Cushion Pressure:

psig

Salinity: Filter Cake: 6000.00 ppm

1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	GTS	0.000
35.00	GCM 10%G90%M w /show of oil	0.491

Total Length:

35.00 ft

Total Volume:

0.491 bbl

Num Fluid Samples: 0

Num Gas Bombs:

Serial#:

Laboratory Name:

Laboratory Location: Recovery Comments: Sampler Data: 200ML gas 1800ML mud

PSI: 30#



H&B Petroleum Corp

9-21s-12w Stafford,KS

PO Box 1305

Hewitt #1 Job Ticket: 64234

DST#: 1

GAS RATES

ATTN: Jim Musgrove

Test Start: 2018.07.11 @ 00:20:34

Gas Rates Information

Temperature:

59 (deg F)

Relative Density:

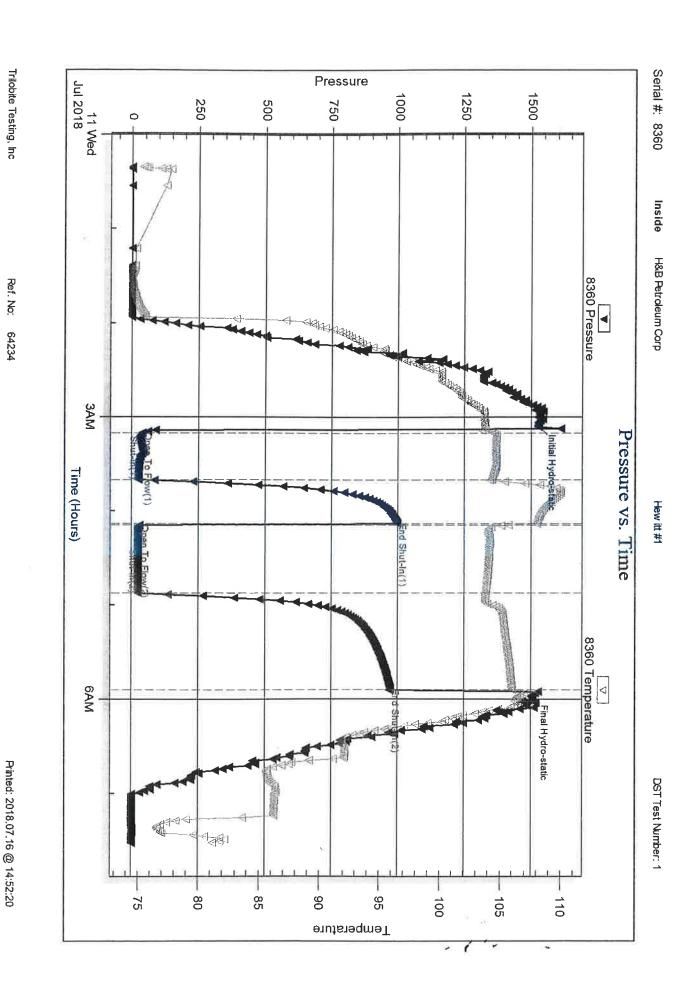
0.65

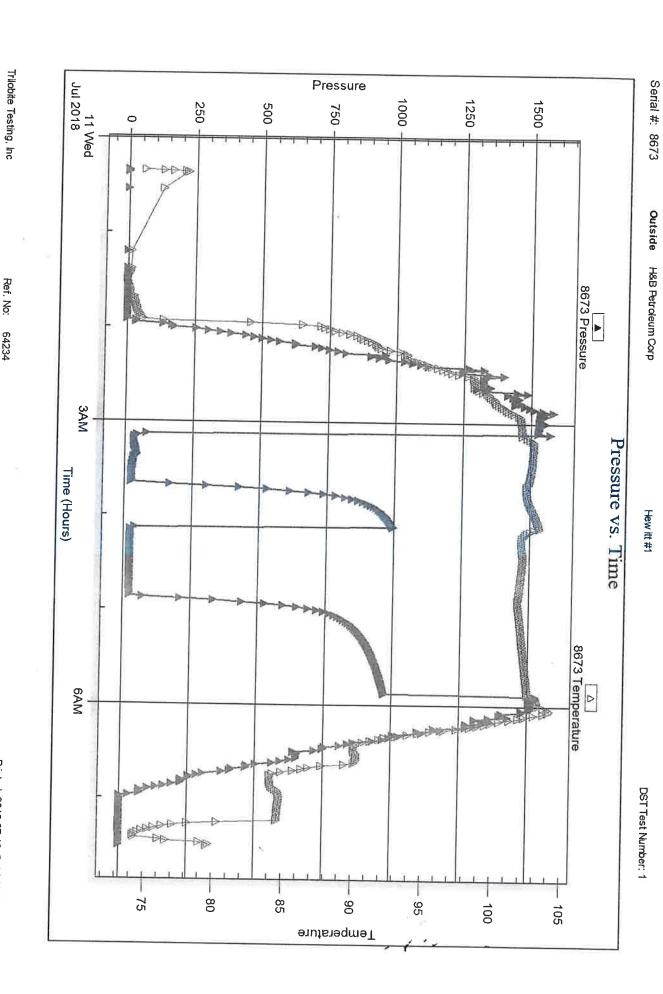
Z Factor:

8,0

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	20	0.25	4.00	29.19
1	30	0.25	3.00	27.60
2	10	0.25	3.00	27.60
2	20	0.25	2.00	26.02
2	30	0.25	2.00	26.02
2	40	0.25	2.00	26.02





Ref. No: 64234

Printed: 2018.07.16 @ 14:52:20



Prepared For: H&

H&B Petroleum Corp

PO Box 1305 Hutchinson KS 67504

ATTN: Jim Musgrove

Hewitt #1

9-21s-12w Stafford,KS

Start Date: 2018.07.11 @ 14:31:00 End Date: 2018.07.11 @ 18:24:40

Job Ticket #: 64235 DST #: 2

Trilobite Testing, Inc 1515 Commerce Parkway Hays, KS 67601 ph: 785-625-4778 fax: 785-625-5620



H&B Petroleum Corp

9-21s-12w Stafford, KS

PO Box 1305

Hutchinson KS 67504

Hewitt #1 Job Ticket: 64235

DST#: 2

ATTN: Jim Musgrove

Test Start: 2018.07.11 @ 14:31:00

GENERAL INFORMATION:

Formation:

LKC

Deviated:

No Whipstock:

ft (KB)

Time Tool Opened: 15:59:10 Time Test Ended: 18:24:40

3260.00 ft (KB) To 3296.00 ft (KB) (TVD)

Total Depth: Hole Diameter:

Interval:

Start Date:

Start Time:

3296.00 ft (KB) (TVD)

7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)

Tester:

Ray Schwager

Unit No:

Reference Elevations:

1848.00 ft (KB)

1838.00 ft (CF)

KB to GR/CF:

PRESSURE SUMMARY

Annotation

102.42 Initial Hydro-static

101.92 Open To Flow (1)

102.34 | Shut-In(1)

Temp

(deg F)

10.00 ft

Serial #: 8360

Inside Press@RunDepth:

16.19 psig @

14:31:00

2018.07.11

3264.00 ft (KB)

End Time:

End Date:

2018.07.11 18:24:40

Time

(Min.)

0

2

18

Capacity:

8000.00 psig

Last Calib.: Time On Btm:

2018.07.11 2018.07.11 @ 15:57:10

Time Off Btm:

Pressure

(psig)

1556.60

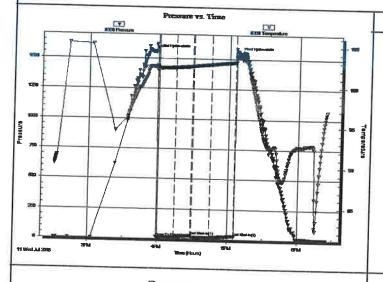
14.51

15.47

2018.07.11 @ 17:08:55

TEST COMMENT: 15-IFP-surface blow , died in 12 min

15-ISIP-no blow 15-FFP-no blow 20-FSIP-no blow



32	29.03	102.49	I ⊨nd Shut-In(1)
32	15.83	102.50	Open To Flow (2)
48	16.19		Shut-In(2)
69	27.86	103.03	End Shut-In(2)
72	1541.79	103.78	Final Hydro-static
	1		

Recovery Length (ft) Description Volume (bbl) 5.00 Mud 0.07 Recovery from multiple tests

Gas Rates

Choke (inches) Pressure (psig)

Gas Rate (Mcf/d)

Trilobite Testing, Inc

Ref. No: 64235

, Printed: 2018.07.16 @ 14:39:55



H&B Petroleum Corp

PO Box 1305

Hutchinson KS 67504

ATTN: Jim Musgrove

9-21s-12w Stafford, KS

Hewitt #1

Job Ticket: 64235

DST#: 2

Test Start: 2018.07.11 @ 14:31:00

GENERAL INFORMATION:

Time Tool Opened: 15:59:10

Time Test Ended: 18:24:40

Formation:

LKC No

Deviated:

Whipstock:

ft (KB)

Test Type: Tester:

Conventional Bottom Hole (Reset)

Ray Schwager

Unit No:

Reference Elevations:

1848.00 ft (KB)

1838.00 ft (CF)

KB to GR/CF:

10.00 ft

Interval: Total Depth: 3260.00 ft (KB) To 3296.00 ft (KB) (TVD) 3296.00 ft (KB) (TVD)

Hole Diameter:

7.88 inches Hole Condition: Fair

Serial #: 8673

Press@RunDepth:

psig @ 2018.07.11

ft (KB) End Date:

2018.07.11 18:23:49

Capacity: Last Calib.:

8000.00 psig 2018.07.11

Time On Btm:

Time Off Btm:

Start Time:

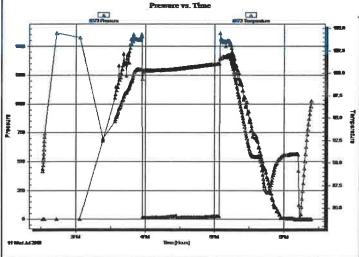
Start Date:

14:31:24

End Time:

TEST COMMENT: 15-IFP-surface blow , died in 12 min

15-ISIP-no blow 15-FFP-no blow 20-FSIP-no blow



PRESSURE SUMMARY Time Pressure Temp Annotation (Min.) (deg F) (psig)

Recovery Description Length (ft) Volume (bbl) 5.00 Mud 0.07

Gas Rates

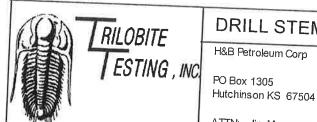
Choke (inches) Pressure (psig)

Gas Rate (Mcf/d)

Recovery from multiple tests Trilobite Testing, Inc

Ref. No: 64235

Printed: 2018.07.16 @ 14:39:55



TOOL DIAGRAM

H&B Petroleum Corp

9-21s-12w Stafford, KS

PO Box 1305

Hewitt #1

Job Ticket: 64235

DST#: 2

ATTN: Jim Musgrove

Test Start: 2018.07.11 @ 14:31:00

Tool Information

Drill Pipe:

Drill Collar:

Heavy Wt. Pipe: Length:

Length:

Length: 3262.00 ft Diameter:

0.00 ft Diameter: 0.00 ft Diameter:

3.80 inches Volume: 0.00 inches Volume: 0.00 inches Volume:

45.76 bbl 0.00 bbl 0.00 bbl

Tool Weight:

2200.00 lb Weight set on Packer: 25000.00 lb

Drill Pipe Above KB:

25.00 ft 3260.00 ft

Total Volume: 45.76 bbl Weight to Pull Loose: 50000.00 lb Tool Chased

0.00 ft

Depth to Top Packer: Depth to Bottom Packer:

ft

String Weight: Initial 38000.00 lb Final 38000.00 lb

Interval between Packers: Tool Length:

36.00 ft

59.00 ft

2 Diameter:

6.75 inches

Number of Packers: Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	A	
Change Over Sub	1.00		· contion		Accum, Lengths	
Shut in Tool	5.00			3238.00		
Sampler				3243.00		
Hydraulic tool	2.00			3245.00		
Packer	5.00			3250.00		
Packer	5.00			3255.00	23.00	5
Stubb	5.00			3260.00	23.00	Bottom Of Top Packer
	1.00			3261.00		
Perforations	3.00			3264.00		
Recorder	0.00	8360	loon total	-		
Recorder	0.00		Inside	3264.00		
Perforations	29.00	8373	Outside	3264.00		
Bullnose				3293.00		
	3.00			3296.00	36.00	Pottom Deal
Total Tool Length:	59.00					Bottom Packers & Anchor

Trilobite Testing, Inc

Ref. No: 64235

Printed: 2018.07.16 @ 14:39:55



FLUID SUMMARY

H&B Petroleum Corp

9-21s-12w Stafford, KS

PO Box 1305

Hewitt #1 Job Ticket: 64235

Hutchinson KS 67504 ATTN: Jim Musgrove

DST#: 2

Test Start: 2018.07.11 @ 14:31:00

Mud and Cushion Information

Mud Type: Gel Chem Mud Weight:

9.00 lb/gal

Viscosity:

61.00 sec/qt 9.53 in³

Water Loss: Resistivity:

ohm.m 6000.00 ppm

Salinity: Filter Cake:

1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

deg API

ppm

psig

ft

ldd

Recovery Information

Recovery Table

	Length ft	Description	Valume bbl
ļ	5.00	Mud	0.070

Total Length:

5.00 ft

Total Volume:

0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs:

Serial #:

Laboratory Name:

Recovery Comments:

Laboratory Location:

Trilobite Testing, Inc.

Ref. No: 64235

Printed: 2018.07.16 @_14:39:55





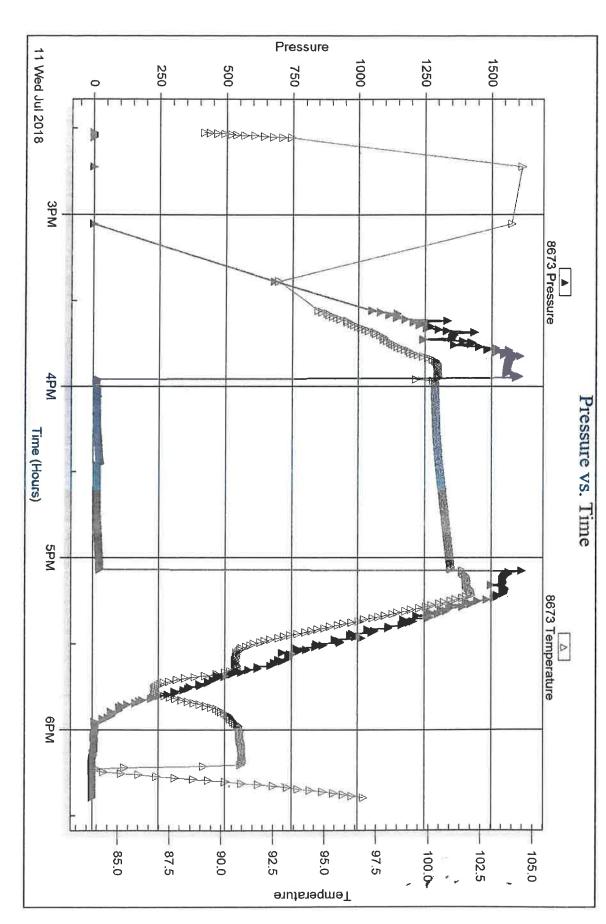
Printed: 2018.07.16 @ 14:39:56



H&B Petroleum Corp

Serial #: 8673







Prepared For: H&B Petroleum Corp

PO Box 1305 Hutchinson KS 67504

ATTN: Jim Musgrove

Hewitt #1

9-21s-12w Stafford,KS

Start Date: 2018.07.12 @ 03:35:22

End Date:

2018.07.12 @ 09:12:01

Job Ticket #: 64236

DST#: 3

Trilobite Testing, Inc 1515 Commerce Parkway Hays, KS 67601 ph: 785-625-4778 fax: 785-625-5620



H&B Petroleum Corp

Hutchinson KS 67504

PO Box 1305

Hewitt #1

Job Ticket: 64236

DST#: 3

ATTN: Jim Musgrove

Test Start: 2018.07.12 @ 03:35:22

9-21s-12w Stafford,KS

GENERAL INFORMATION:

Formation:

LKC

Deviated:

Nο

Whipstock:

ft (KB)

Test Type: Conventional Bottom Hole (Reset)

Tester:

Ray Schwager

Unit No:

Reference Elevations:

1848.00 ft (KB)

1838.00 ft (CF)

KB to GR/CF:

10.00 ft

Interval:

Start Date:

Start Time:

3320.00 ft (KB) To 3384.00 ft (KB) (TVD)

Total Depth:

3384.00 ft (KB) (TVD)

Hole Diameter:

Press@RunDepth:

7.88 inches Hole Condition: Fair

Serial #: 8360

Time Tool Opened: 05:01:02

Time Test Ended: 09:12:01

Inside

41.36 psig @ 2018.07.12

03:35:22

3324.00 ft (KB)

End Time:

End Date:

2018.07.12 09:12:01 Capacity: Last Calib.: 8000.00 psig

Time On Btm:

2018.07.12 2018.07.12 @ 05:00:17

Time Off Btm:

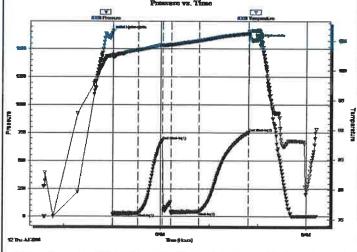
2018.07.12 @ 07:52:46

TEST COMMENT: 30-IFP-weak to a fair blow 1/2"to 4"

30-ISIP- no blow

45-FFP-weak blow thru-out surface to 2 1/2"blow

60-FSIP-no blow



_				
		Р	RESSUF	RE SUMMARY
ľ	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	1641.97	102.63	Initial Hydro-static
	1	20.32	102.26	Open To Flow (1)
	32	28.96	103.50	Shut-ln(1)
	62	681.59	104.36	End Shut-In(1)
f	73	31.47	104.36	Open To Flow (2)
	107	41.36	105.04	Shut-In(2)
5	168	751.15	106.23	End Shut-In(2)
	173	1570.87	106.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
55.00	SO&GCM 10%G7%O83%M	0.77
0.00	65' GIP	0.00
		··· •
		
Recovery from r	will also tests	

Gas Rates

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

Trilobite Testing, Inc

Ref. No: 64236

Printed; 2018.07.16 @ 14:39:17



H&B Petroleum Corp

9-21s-12w Stafford,KS

PO Box 1305

Hutchinson KS 67504

Hewitt #1

Job Ticket: 64236

DST#: 3

ATTN: Jim Musgrove

Test Start: 2018.07.12 @ 03:35:22

GENERAL INFORMATION:

Time Tool Opened: 05:01:02

Formation:

LKC No

Deviated:

Whipstock:

ft (KB)

Test Type: Conventional Bottom Hole (Reset)

Tester:

Ray Schwager 77

Interval:

Time Test Ended: 09:12:01

3320.00 ft (KB) To 3384.00 ft (KB) (TVD)

Total Depth:

3384.00 ft (KB) (TVD)

Hole Diameter:

7.88 inches Hole Condition: Fair

Unit No:

1848.00 ft (KB)

Reference Elevations:

1838.00 ft (CF)

KB to GR/CF:

10.00 ft

Serial #: 8673 Press@RunDepth:

Outside

psig @

3324.00 ft (KB)

Capacity:

8000.00 psig

Start Date: Start Time:

2018.07.12

End Date:

2018.07.12

Last Calib.: Time On Btm:

2018.07.12

03:35:43

End Time:

09:12:07

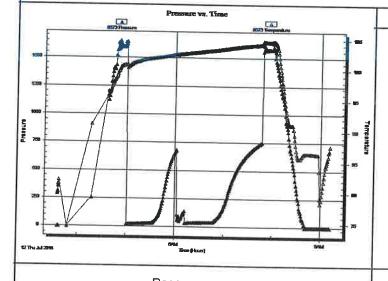
Time (Min.) Time Off Btm:

TEST COMMENT: 30-IFP-weak to a fair blow 1/2"to 4"

30-ISIP- no blow

45-FFP-w eak blow thru-out surface to 2 1/2"blow

60-FSIP-no blow



PRESSURE SUMMARY						
ressure	Temp	Annotation				
(psig)	(deg F)					

Recovery

Length (ft)	Description	Volume (bbl)
55.00	SO&GCM 10%G7%O83%M	0.77
0.00	65' GIP	0.00
Recovery from m	ultiple tests	

Gas Rates

Choke (inches) Pressure (psig)

Gas Rate (Mcf/d)

Trilobite Testing, Inc

Ref. No: 64236

· Printed: 2018.07.16 @ 14:39:17



TOOL DIAGRAM

H&B Petroleum Corp

9-21s-12w Stafford, KS

PO Box 1305 Hutchinson KS 67504

Job Ticket: 64236

Hewitt #1

DST#: 3

ATTN: Jim Musgrove

Test Start: 2018.07.12 @ 03:35:22

Tool Information

Drill Pipe Above KB:

Depth to Top Packer:

Drill Pipe: Heavy Wt. Pipe: Length:

Drill Collar:

Length:

Length: 3326.00 ft Diameter: 0.00 ft

Diameter: 0.00 ft Diameter:

3.80 inches Volume: 0.00 inches Volume: 0.00 inches Volume:

Total Volume:

0.00 bbl 0.00 bbl

46.66 bbl

46.66 bbl Tool Weight: Weight set on Packer: 25000.00 lb

2200.00 lb

Tool Chased

Weight to Pull Loose: 50000.00 lb 0.00 ft

String Weight: Initial 39000.00 lb

Final 39000.00 lb

Depth to Bottom Packer: Interval between Packers: 3320.00 ft ft

29.00 ft

64.00 ft

Tool Length: Number of Packers: 87.00 ft

2 Diameter:

6.75 inches

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3298.00		
Shut In Tool	5.00			3303.00		
Sampler	2.00			3305.00		
Hydraulic tool	5.00			3310,00		
Packer	5.00			3315.00	23.00	Bottom Of Top Packer
Packer	5.00			3320.00		
Stubb	1.00			3321.00		
Perforations	3.00			3324.00		
Recorder	0.00	8360	Inside	3324.00		
Recorder	0.00	8673	Outside	3324.00		
Blank Spacing	33.00			3357.00		
Perforations	24.00			3381.00		
Bullnose	3.00			3384.00	64.00	Bottom Packers & Anchor

Total Tool Length:

87.00



FLUID SUMMARY

H&B Petroleum Corp

9-21s-12w Stafford, KS

PO Box 1305

Hutchinson KS 67504

Hewitt #1

Job Ticket: 64236

DST#: 3

ATTN: Jim Musgrove

Test Start: 2018.07.12 @ 03:35:22

Mud and Cushion Information

Mud Type: Gel Chem Mud Weight:

9.00 lb/gal

40.00 sec/qt

Viscosity: Water Loss: Resistivity:

9.53 in³ ohm,m

Salinity: Filter Cake: 6000.00 ppm

1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type: Gas Cushion Pressure:

Oil API: Water Salinity:

deg API ppm

ft bbl

psig

Recovery Information

Recovery Table

Length Description Volume ft bbl 55.00 SO&GCM 10%G7%O83%M 0.772 0.00 65' GIP 0.000

Total Length:

55.00 ft

Total Volume:

0.772 bbl

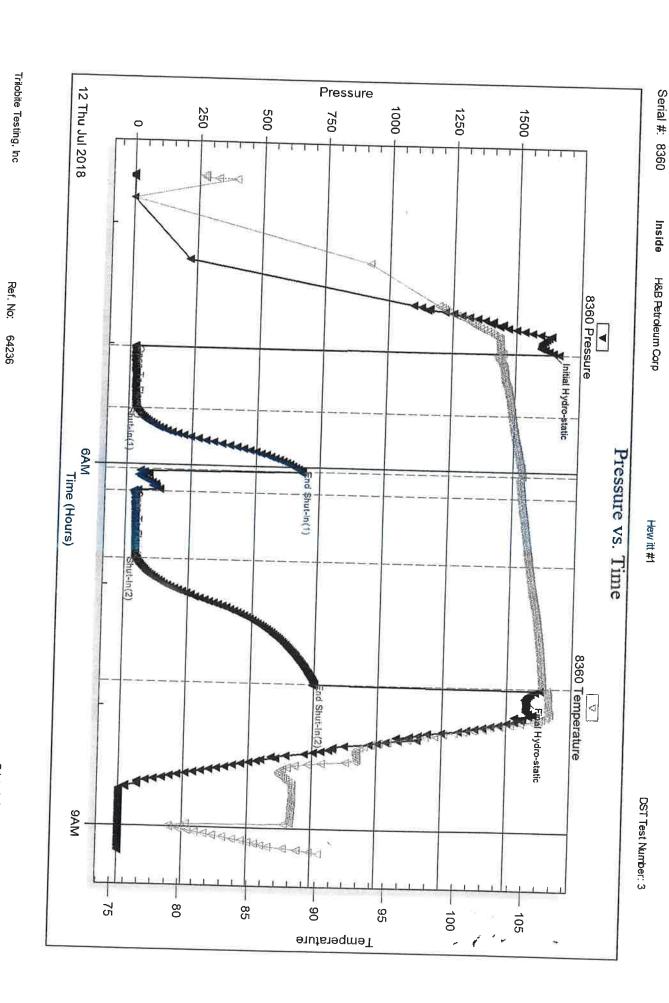
0

Num Fluid Samples: 0

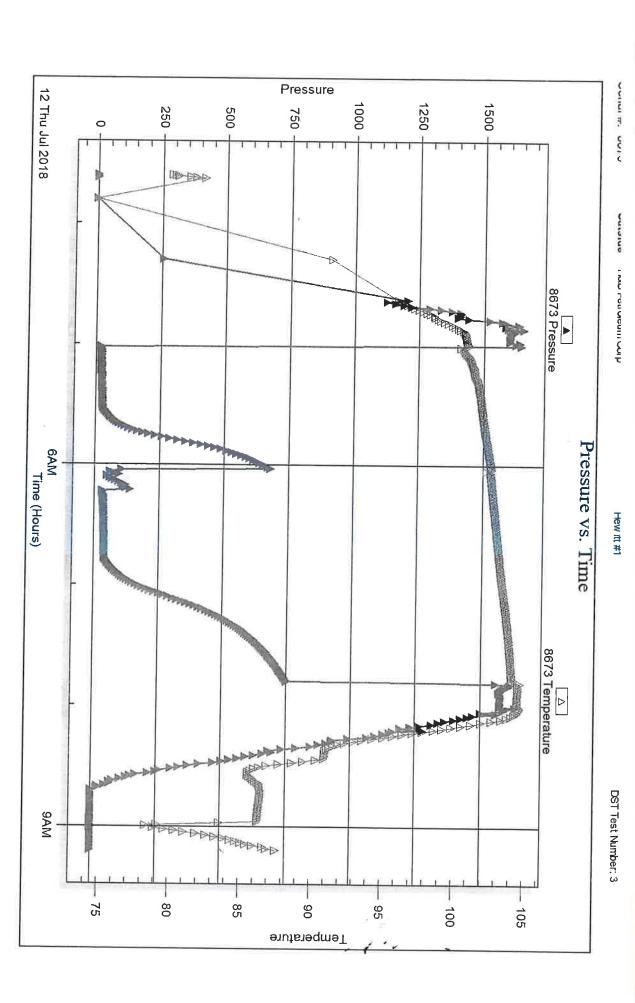
Laboratory Name:

Num Gas Bombs: Laboratory Location: Serial#:

Recovery Comments:



Printed: 2018.07.16 @ 14:39:18



Trilobite Testing, Inc

Ref. No: 64236

Printed: 2018.07.16 @ 14:39:18



Prepared For:

H&B Petroleum Corp

PO Box 1305 Hutchinson KS 67504

ATTN: Jim Musgrove

Hewitt #1

9-21s-12w Stafford,KS

Start Date:

2018.07.12 @ 17:25:18

End Date:

2018.07.12 @ 22:35:42

Job Ticket #: 64237

DST#: 4

Trilobite Testing, Inc. 1515 Commerce Parkway Hays, KS 67601 ph: 785-625-4778 fax: 785-625-5620



H&B Petroleum Corp

PO Box 1305 Hutchinson KS 67504 9-21s-12w Stafford, KS

Hewitt #1

Job Ticket: 64237

DST#: 4

ATTN: Jim Musgrove

Test Start: 2018.07.12 @ 17:25:18

GENERAL INFORMATION:

Time Tool Opened: 19:15:43

Time Test Ended: 22:35:42

Formation:

Lower LKC

Deviated:

No

Whipstock:

ft (KB)

Test Type: Conventional Bottom Hole (Reser

Tester:

Ray Schwager

Unit No:

77

Reference Elevations:

1848.00 ft (KB) 1838.00 ft (CF)

KB to GR/CF:

10.00 ft

Interval: Total Depth: 3380.00 ft (KB) To 3447.00 ft (KB) (TVD) 3447.00 ft (KB) (TVD)

Hole Diameter:

7.88 inches Hole Condition: Fair

Serial #: 8360 Press@RunDepth:

Inside

49.67 psig @

3384.00 ft (KB)

Capacity:

8000.00 psig

Start Date: Start Time: 2018.07.12

End Date:

2018.07.12

Last Calib.:

17:25:18

End Time:

22:35:42

Time On Btm:

2018.07.12

Time Off Btm:

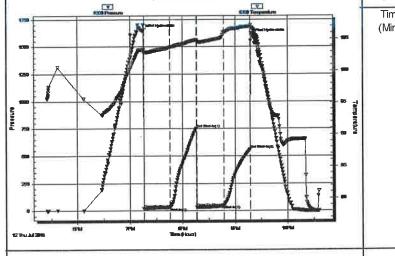
2018.07.12 @ 19:14:28 2018.07.12 @ 21:19:43

TEST COMMENT: 30-IFP-w eak Blow, surface to 1"blow

30-ISIP-no blow

30-FFP-no blow 1st 8min, then surface blow thru-out

30-FSIP-no blow



	P)	PI	RESSUR	E SUMMARY
1	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	1643.15	103.26	Initial Hydro-static
	2	19.34	102.79	Open To Flow (1)
- 1	31	30.62	103.66	Shut-In(1)
	62	751.30	104.82	End Shut-In(1)
털	62	33.37	104.61	Open To Flow (2)
Temperature	93	49.67	106.00	Shut-ln(2)
5	123	560.23	106.96	End Shut-In(2)
	126	1598.08	106.53	Final Hydro-static
				1

Recovery Volume (bbl) Description Length (ft) 0.56 40.00 Mud Recovery from multiple tests

Gas Rates Gas Rate (M Choke (inches) Pressure (psig)

Trilobite Testing, Inc.

Ref. No: 64237

Printed: 2018.07.16 @ 14:38:53



H&B Petroleum Corp

9-21s-12w Stafford, KS

PO Box 1305

Hewitt #1

Job Ticket: 64237

DST#: 4

Hutchinson KS 67504 ATTN: Jim Musgrove

Test Start: 2018.07.12 @ 17:25:18

GENERAL INFORMATION:

Time Tool Opened: 19:15:43

Time Test Ended: 22:35:42

Formation:

Lower LKC

Deviated:

No Whipstock:

ft (KB)

Test Type: Conventional Bottom Hole (Reset)

Tester:

Ray Schwager

Unit No:

77

3380.00 ft (KB) To 3447.00 ft (KB) (TVD)

Reference Elevations:

1848.00 ft (KB)

Interval: Total Depth:

3447.00 ft (KB) (TVD)

1838.00 ft (CF)

Hole Diameter:

7.88 inches Hole Condition: Fair

KB to GR/CF:

10.00 ft

Serial #: 8673

Press@RunDepth:

Outside

psig @

3384.00 ft (KB)

Capacity:

8000.00 psig

Start Date:

2018.07.12

End Date:

2018.07.12

Last Calib.:

Start Time:

17:25:24

End Time:

Time On Btm:

2018.07.12

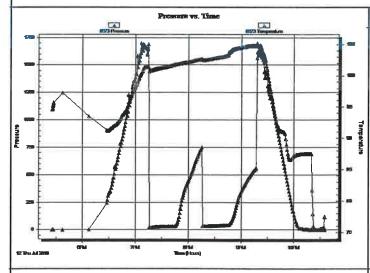
22:35:33

Time Off Btm:

TEST COMMENT: 30-IFP-w eak Blow, surface to 1"blow 30-ISIP-no blow

30-FFP-no blow 1st 8min, then surface blow thru-out

30-FSIP-no blow



PRESSURE SUMMARY

3					
1	Time	Pressure	Temp	Annotation	()
ı	(Min.)	(psig)	(deg F)		
ı					
ı					
ı					
ı					
ı					
ı					
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Recovery

Length (ft)	Description	Volume (bbl)
40.00	Mud	0.56
Recovery from m		

Gas Rates

Choke (inches) Pressure (psig)

Gas Rate (Mcf/d)

Trilobite Testing, Inc.

Ref. No: 64237

Printed: 2018.07.16 @ 14:38:53



TOOL DIAGRA

H&B Petroleum Corp

9-21s-12w Stafford, KS

Hewitt #1

PO Box 1305 Hutchinson KS 67504

Job Ticket: 64237

DST#: 4

ATTN: Jim Musgrove

Test Start: 2018.07.12 @ 17:25:18

Tool Information

Drill Pipe: Heavy Wt. Pipe: Length:

Drill Collar:

Length:

Length: 3388.00 ft Diameter: 0.00 ft Diameter: 0.00 ft Diameter:

3.80 inches Volume: 0.00 inches Volume: 0.00 inches Volume:

47,52 bbl 0.00 bbl 1dd 00.0 Tool Weight: 2200.00 lb Weight set on Packer: 25000.00 lb Weight to Pull Loose: 55000.00 lb

Tool Chased Total Volume: 47.52 bbl

0.00 ft

String Weight: Initial 40000.00 lb

Final 40000.00 lb

Drill Pipe Above KB: Depth to Top Packer:

Depth to Bottom Packer: Interval between Packers:

31.00 ft 3380.00 ft

67.00 ft 90.00 ft

Diameter:

6.75 inches

Tool Comments:

Number of Packers:

Tool Length:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3358.00		
Shut In Tool	5.00			3363.00		
Sampler	2.00			3365.00		
Hydraulic tool	5.00			3370.00		
Packer	5.00			3375.00	23.00	Bottom Of Top Packet
Packer	5.00			3380.00		
Stubb	1.00			3381.00		
Perforations	3.00			3384.00		
Recorder	0.00	8360	Inside	3384.00		
Recorder	0.00	8673	Outside	3384.00		
Blank Spacing	33.00			3417.00		
Perforations	27.00			3444.00		
Bullnose	3.00			3447.00	67.00	Bottom Packers & Anchor

Total Tool Length:

90.00

Trilobite Testing, Inc.

Ref. No: 64237

Printed: 2018.07.16 @ 14:38:54



FLUID SUMMARY

H&B Petroleum Corp

9-21s-12w Stafford, KS

Hewitt #1

PO Box 1305 Hutchinson KS 67504

Job Ticket: 64237

DST#: 4

ATTN: Jim Musgrove

Test Start: 2018.07.12 @ 17:25:18

Mud and Cushion Information

Mud Type: Gel Chem

9.00 lb/gal

Mud Weight: Viscosity:

45.00 sec/qt 7.96 in³

Water Loss: Resistivity:

ohm.m

Salinity: Filter Cake: 5000.00 ppm 1.00 inches Cushion Type:

Cushion Length:

ft bbl Oil API:

Water Salinity:

Printed: 2018.07.16 @ 14:38:54

deg API ppm

Cushion Volume: Gas Cushion Type:

Gas Cushion Pressure:

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	Mud	0.561

Total Length:

40.00 ft

Total Volume:

0.561 bbl

Num Fluid Samples: 0

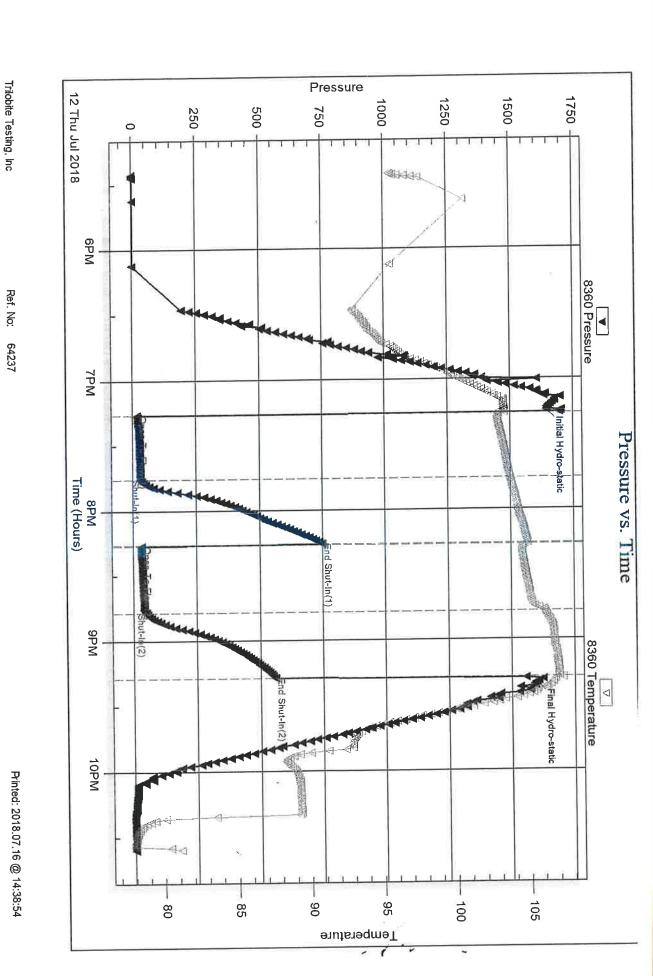
Num Gas Bombs:

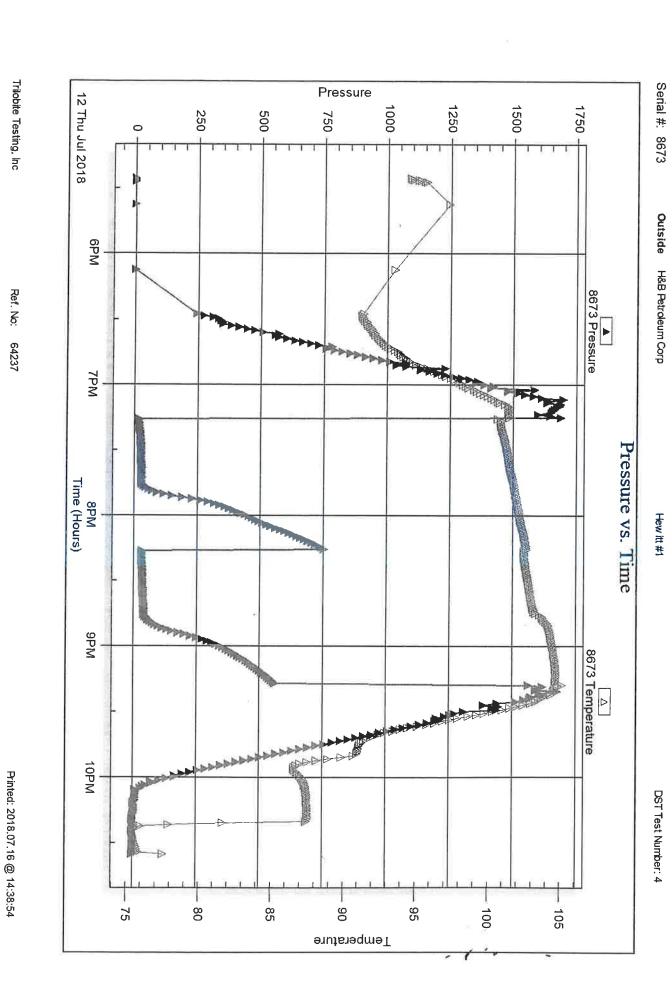
Serial #:

Laboratory Name:

Recovery Comments:

Laboratory Location:







Prepared For: H&B Petroleum Corp

PO Box 1305 Hutchinson KS 67504

ATTN: Jim Musgrove

Hewitt #1

9-21s-12w Stafford,KS

Start Date: 2018.07.13 @ 07:25:37

End Date:

2018.07.13 @ 13:16:46

Job Ticket #: 64238

DST#: 5

Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

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

Printed: 2018.07.16 @ 14:37:04



H&B Petroleum Corp

PO Box 1305 Hutchinson KS 67504

ATTN: Jim Musgrove

9-21s-12w Stafford, KS

Hewitt #1

Job Ticket: 64238

DST#: 5

Test Start: 2018.07.13 @ 07:25:37

GENERAL INFORMATION:

Time Tool Opened: 09:00:32

Time Test Ended: 13:16:46

Formation:

Interval:

Total Depth:

Start Time:

Arbuckle

Deviated:

No Whipstock: ft (KB)

Test Type: Conventional Bottom Hole (Reset)

Tester:

Ray Schwager

Unit No: 77

Reference Elevations:

1848,00 ft (KB)

1838.00 ft (CF)

KB to GR/CF:

10.00 ft

Hole Diameter:

3482.00 ft (KB) (TVD)

7.88 inches Hole Condition: Fair

3415.00 ft (KB) To 3482.00 ft (KB) (TVD)

Serial #: 8360

Press@RunDepth:

Start Date:

Inside

209.68 psig @ 2018.07.13 07:25:37

3419.00 ft (KB)

End Date: End Time: 2018.07.13

13:16:46

Capacity:

8000.00 psig

Last Calib.: Time On Btm:

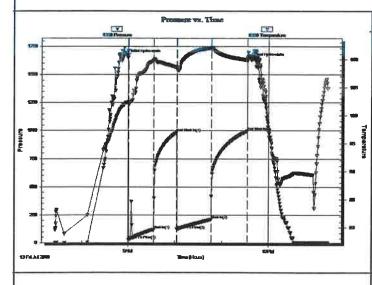
2018.07.13 2018.07.13 @ 08:58:32

Time Off Btm:

2018.07.13 @ 11:38:02

TEST COMMENT: 30-IFP-weak to BOB in 12 min

30-ISIP-no blow 45-FFP-BOB in 22 min 45-FSIP-surface blow back



PRESSURE SUMMARY

	PRESSURE SUIVIIVIARY							
1	Time	Pressure	Temp	Annotation				
	(Min.)	(psig)	(deg F)					
	0	1660.63	102.34	Initial Hydro-static				
	2	28.08	101.96	Open To Flow (1)				
	35	119.75	109.88	Shut-In(1)				
	64	985.76	108.58	End Shut-In(1)				
	65	121.48	108.17	Open To Flow (2)				
	108	209.68	112.08	Shut-In(2)				
	155	996.85	109.91	End Shut-In(2)				
	160	1628.64	110.44	Final Hydro-static				
ı								
ı		(
ı								
ı								

Recovery

Length (ft)	Description	Volume (bbl)
186.00	SOCW 1% O99% W	2.61
62.00	O&GCMW 10%G5%O20%M65%W	0.87
204.00	O&GCWM 10%G20%O20%W50%M	2.86
30.00	co	0.42
0.00	200'GIP	0.00

Gas Rates

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

Trilobite Testing, Inc

Ref. No: 64238

-Printed: 2018.07.16 @ 14:37:04



H&B Petroleum Corp

9-21s-12w Stafford, KS

PO Box 1305

Hutchinson KS 67504

Hewitt #1

Job Ticket: 64238

DST#:5

ATTN: Jim Musgrove

Test Start: 2018.07.13 @ 07:25:37

GENERAL INFORMATION:

Formation:

Arbuckle

Deviated:

Whipstock:

ft (KB)

Time Tool Opened: 09:00:32 Time Test Ended: 13:16:46

Test Type:

Conventional Bottom Hole (Rese

Tester:

Ray Schwager

Unit No:

Reference Elevations:

1848.00 ft (KB) 1838.00 ft (CF)

KB to GR/CF:

Interval: Total Depth:

Hole Diameter:

3415.00 ft (KB) To 3482.00 ft (KB) (TVD)

3482.00 ft (KB) (TVD)

7.88 inches Hole Condition: Fair

10.00 ft

Serial #: 8673 Press@RunDepth: Outside

psig @ 2018.07.13

3419.00 ft (KB) End Date:

2018.07.13

Capacity:

8000.00 psig

Start Date: Start Time:

End Time:

Last Calib.: Time On Btm: 2018.07.13

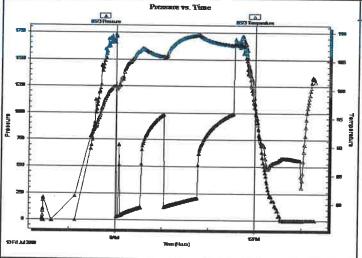
07:25:49

13:16:43

Time Off Btm:

TEST COMMENT: 30-IFP-weak to BOB in 12 min

30-ISIP-no blow 45-FFP-BOB in 22 min 45-FSIP-surface blow back



	PRESSURE SUMMARY								
	Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation					
Temperatura									

Recovery

Length (ft)	Description	Volume (bbl)
186.00	SOCW 1% 099% W	2.61
62.00	O&GCMW 10%G5%O20%M65%W	0.87
204.00	O&GCWM 10%G20%O20%W50%M	`2.86
30.00	00	0.42
0.00	200'GIP	0.00

Gas Rates

Choke (inches) Pressure (psig) Gas Rate (Mcf.

Trilobite Testing, Inc.

Ref. No: 64238

Printed: 2018.07.16 @ 14:37:04



TOOL DIAGRAM

H&B Petroleum Corp

9-21s-12w Stafford,KS

Hewitt #1

PO Box 1305 Hutchinson KS 67504

Job Ticket: 64238

DST#: 5

ATTN: Jim Musgrove

Test Start: 2018.07.13 @ 07:25:37

Tool Information

Drill Pipe:

Length: 3419.00 ft Diameter:

3.80 inches Volume:

47.96 bbl Tool Weight: 2200.00 lb

Heavy Wt. Pipe: Length:

0.00 ft Diameter:

0.00 inches Volume:

0.00 bbl

Weight set on Packer: 25000.00 lb

Drill Collar:

Length:

0.00 ft Diameter:

0.00 inches Volume:

1dd 00.0

Weight to Pull Loose: 55000.00 lb

Drill Pipe Above KB:

27.00 ft

Total Volume: 47.96 bbl

Depth to Top Packer:

Tool Chased

3.00 ft

3415.00 ft

String Weight: Initial 40000.00 lb

Depth to Bottom Packer: Interval between Packers:

67.00 ft

Final 41000.00 lb

Tool Length: Number of Packers:

90.00 ft 2

Diameter:

6.75 inches

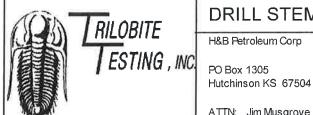
Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3393.00		
Shut In Tool	5.00			3398.00		
Sampler	2.00			3400.00		
Hydraulic tool	5.00			3405.00		
Packer	5.00			3410.00	23.00	Bottom Of Top Packer
Packer	5.00			3415.00		
Stubb	1.00			3416.00		
Perforations	3.00			3419.00		
Recorder	0.00	8360	Inside	3419.00		
Recorder	0.00	8673	Outside	3419.00		
Blank Spacing	33.00			3452.00		
Perforations	27.00			3479.00		
Bullnose	3.00			3482.00	67.00	Bottom Packers & Anchor

Total Tool Length:

90.00

Ref. No: 64238



FLUID SUMMA

H&B Petroleum Corp

9-21s-12w Stafford, KS

PO Box 1305

Hewitt #1

Job Ticket: 64238

DST#: 5

ATTN: Jim Musgrove

Test Start: 2018.07.13 @ 07:25:37

Mud and Cushion Information

Mud Type:

Gel Chem

Cushion Type:

Oil API:

41 deg A

Mud Weight:

9.00 lb/gal 49.00 sec/qt Cushion Length:

Water Salinity:

Viscosity: Water Loss:

7.96 in³

Cushion Volume: Gas Cushion Type: ft bbl 27000 ppm

Resistivity:

Salinity:

ohm.m

Gas Cushion Pressure:

psig

5000.00 ppm

Filter Cake:

1.00 inches

Recovery Information

Recovery Table

Len fi	gth t	Description	Volume bbl
	186.00	SOCW 1% O99% W	2.609
	62.00	O&GCMW 10%G5%O20%M65%W	0.870
	204.00	O&GCWM 10%G20%O20%W50%M	2.862
	30.00	co	0.421
1	0.00	200'GIP	0.000

Total Length:

482.00 ft

Total Volume:

6.762 bbl

Num Fluid Samples: 0

Num Gas Bombs:

Serial#:

Laboratory Name:

Laboratory Location:

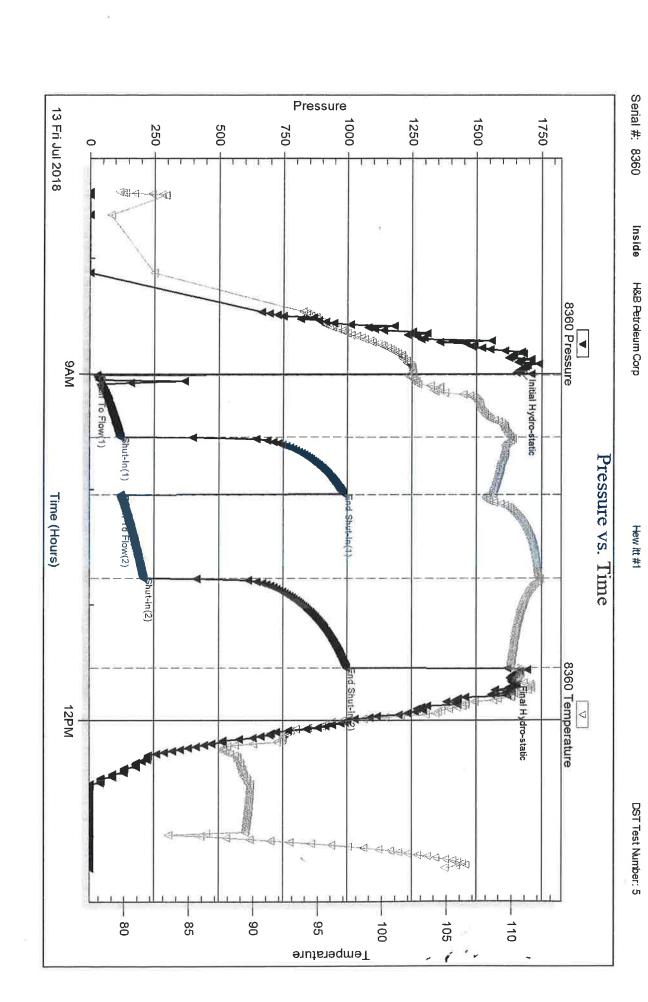
Recovery Comments: RW.2@85F Sampler Data: 300MLoil 100MLmud 200ML gas

1400 ML water PSI

Trilobite Testing, Inc.

Ref. No: 64238

Printed: 2018.07.16 @ 14:37:04



Trilobite Testing, Inc

Ref. No:

64238

Printed: 2018.07.16 @ 14:37:05

90

85

95

Temperature

100

FIESSULE VS. IIIIE

110

105

Printed: 2018.07.16 @ 14:37:05

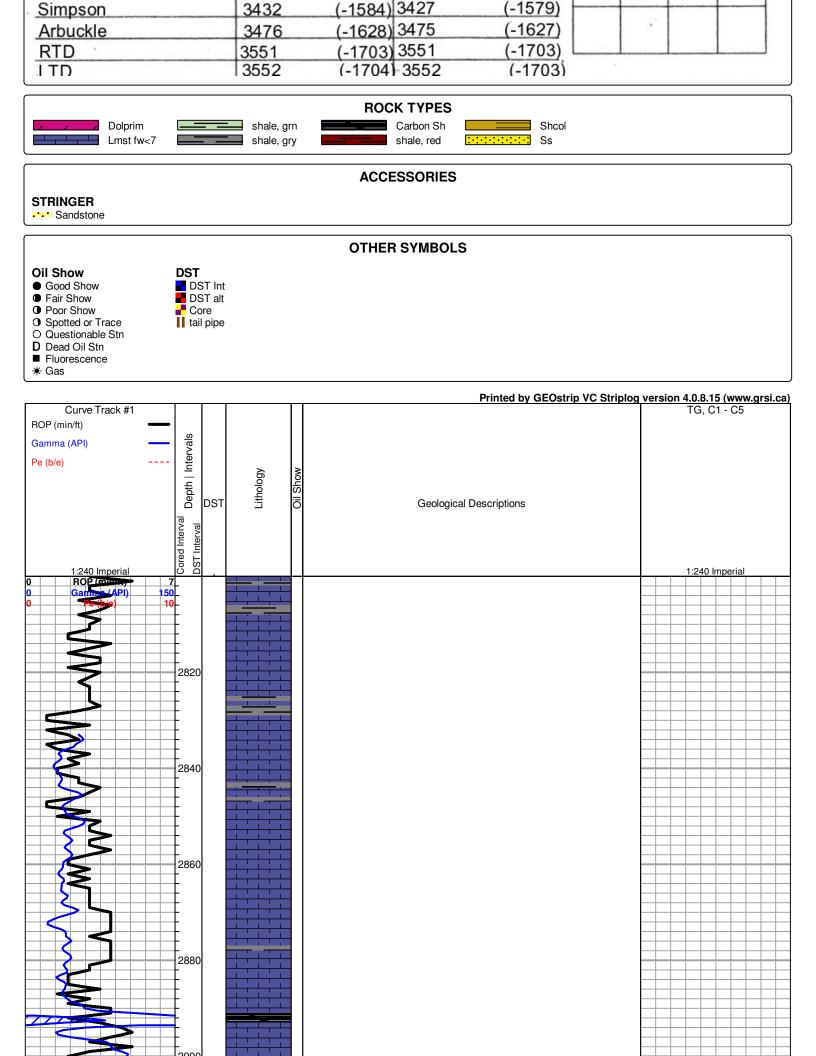
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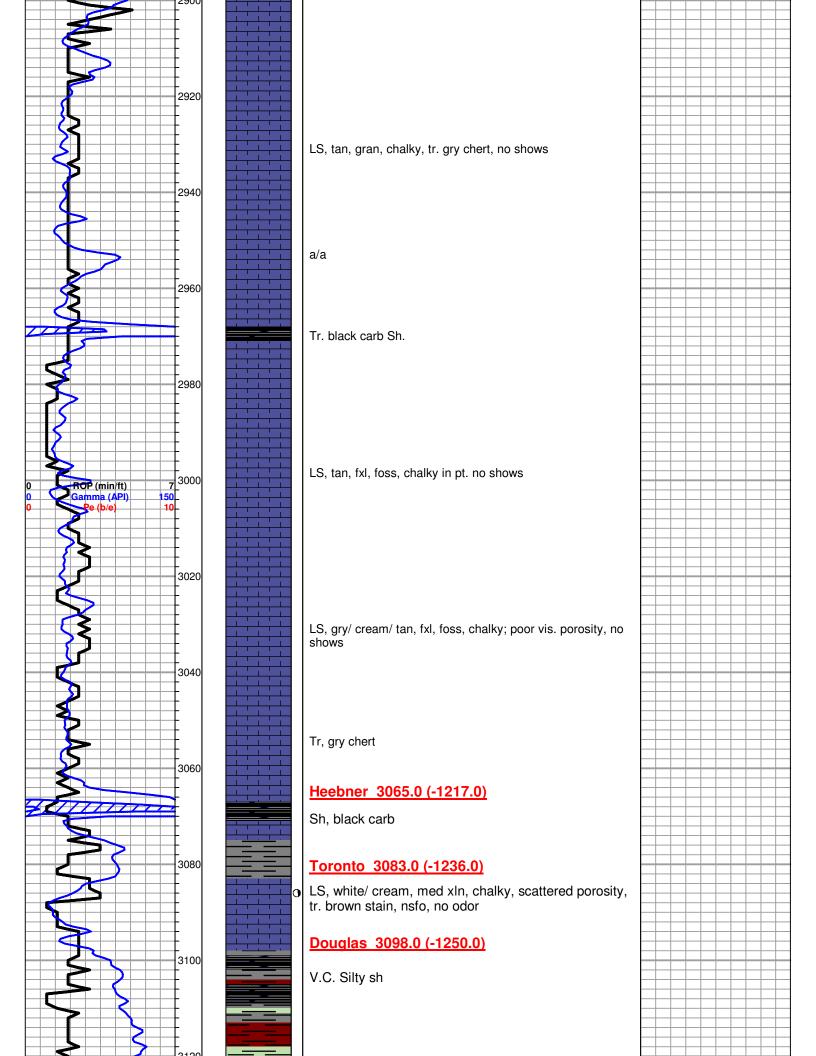


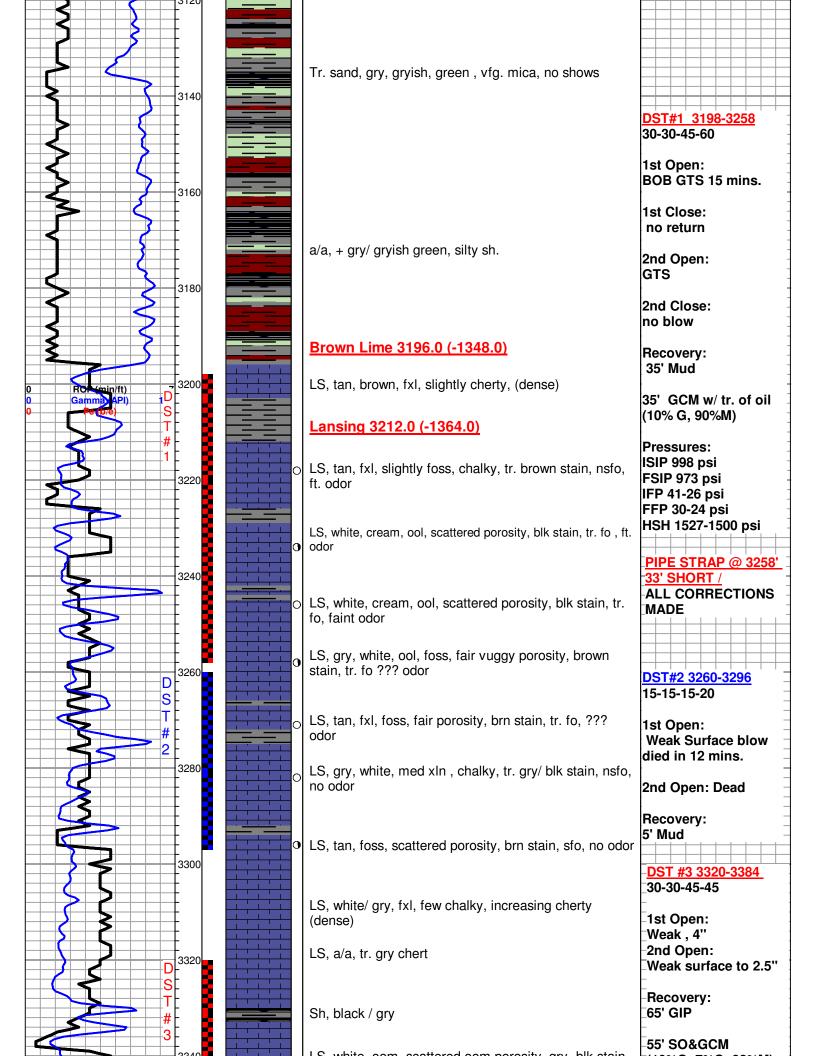
GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

	DIVILLII	10 THIL	71110 07111	"	200					
COMPANY H&B Petro	ELEVATIONS									
LEASE <u>Hewitt # 1</u>	KB_1848'									
FIELD <u>Byron</u>	DF									
LOCATION NE-NW-S	GL _1838'									
SEC 9 TWS		surement		attern a						
COUNTY_Stafford		m_KB								
CONTRACTOR_South	CASING SURFACE <u>8 5/8"@ 637'</u>									
SPUD <u>07/06/2018</u>		DUCTION 5 1/								
RTD_3551'	LTD	3552'		_		ECTRICAL				
MUD UP_2800'	TYPE	MUD_C	hemical	_		ELI; DI PE/CDI	L, MEL _/CNL	•		
SAMPLES SAVED FRO	M	2	950'		ТО	RTE)			
DRILLING TIME KEF										
SAMPLES EXAMINED										
GEOLOGICAL SUPERV										
GEOLOGIST ON WELL	Jim N	lusgro\	/e (2900-34	00) 8	رW	yatt Urba	n (3380	-RTD)		
FORMATION TOPS	L	OG.	SAMP	LES						
Anhydrite	632	(+1216)								
B.Anhydrite	658	(+1190)								
Heebner					17)		~			
Toronto	3083	(-1208)		(-12			X			
Brown Lime	3196	(-1348)		(-13		<u> </u>				
Lansing BKC	3212 3417	(-1364) (-1569)		(-13 (-15						
5170	V-11	(-1000)	3113				1	- 1		







LS, write, dom, scattered dom porosity, gry- bik stain, _(10%G, 7%O, 83%M) nsfo, ft. odor Pressures: ISIP 681 psi FSIP 751 psi LS, white, gry, ool, scattered porosity, fair brown IFP 20-28 psi stain/sat. tr. fo, ft. odor 3360 FFP 31-41 psi HSH 1641-1570 psi LS, cream, white, fxl, slightly ool/oom, poor oom DST#4 3380-3447 porosity, gry-blk stain, nsfo, no odor 30-30-30-30 3380 D 1st Open: Sh, gry, dk gry, waxy S Weak , 1" Т LS, white/ cream, foss, scattered vuggy type porosity, 2nd Open: It. brn stain, sfo (sptty) ft. odor Weak surface blow 3400 P (min/ft) Sh, dk gry, waxy Gamma (AP 150 Recovery: LS, tan, foss/ool, p.p. type porosity, lt. brn stain, sfo, 40' Mud odor Pressures: BKC 3417.0 (-1569.0) D ISIP 751 psi S 3420 Sh, gry, maroon, red FSIP 560 psi IFP 19-30 psi FFP 33-49 psi Simpson 3432.0 (-1584.0) HSH 1643-1598 psi Sh, a/a, waxy, abd. tan, brn, orange cherts, few blk sptty stain, nsfo 3440' CFS 20" -3440 Tr. Sd. brn, med grain, Sh, maroon, green, dk green, tr. v. c. cherts, tr. sptty sub rounded, poorly brn/blk stain on few, tr. sptty sfo, odor sorted, "shaley" / mica. dk brn stain, sfo, odor LS, tan, cream, fxl, dense, cherty, few foss Sh, maroon, green, waxy orange & tan, cherts DST#5 3415-3482 Sd. tan, buff, gtz, f-med grain, well sorted, lt. brn stain, 30-30-45-45 sfo, odor Arbuckle 3475.0 (-1627.0) 1st Open: BOB 12 min 3480 Dol. tan, fxl, scattered vuggy type porosity, lt. brn stain, sfo, fair odor 2nd Open: BOB 22 min Dol a/a, decreasing vis. porosity & sfo more dead in Abd. Sh, green, maroon, waxey, tr. dol. tan, suc/ gran. Recovery: blk (dead) oil flakes, fair odor 200' GIP 3500 30' Clean Oil Dol. tan, buff, ool, scattered vuggy/oom porosity, tr. brn stain, sfo, few dead flakes, strong odor 204' O&GCWM (10%G, 20%O, 20%W, 50%M) Dol. tan, coarse- med grain, good inxln porosity, sfo/ 3520 (few dead in appeareance) odor, tr. pyrite 62' O&GCMW (10%G, 5%O, 65%W, -20%M) Dol. white, suc. good inxln porosity, nsfo, increase in pyrite, tr. white chert, few ool, strong odor 186' SOCW 3540 (1%O, 99%W) Dol, tan, buff, fxl, dense, cherty, no shows, odor. Pressures: ISIP 985 psi RTD 3551.0 (-1703.0) FSIP 996 psi LTD 3552.0 (-1704.0) IFP 28-119 psi

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