Confidentiality Requested:

Yes No

Kansas Corporation Commission Oil & Gas Conservation Division

1363619

Form ACO-1 November 2016 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:	Feet from				
Contact Person:	Footages Calculated from Nearest Outside Section Corner:				
Phone: ()	□NE □NW □SE □SW				
CONTRACTOR: License #	GPS Location: Lat:, Long:, (e.gxxx.xxxxx)				
Name:	Datum: NAD27 NAD83 WGS84				
Wellsite Geologist:	County:				
Purchaser:					
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)				
Committee land	Chloride content: ppm Fluid volume: bbls				
□ Commingled Permit #: Dual Completion Permit #:	Dewatering method used:				
SWD Permit #:	Location of fluid disposal if hauled offsite:				
EOR Permit #:	Location of haid disposal if hadied offsite.				
GSW Permit #:	Operator Name:				
	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 III Approved by: Date:						

Page Two

Operator Name:					Lease Na	ıme: _			Well #:	
SecTwp	oS. F	R	East	West	County: _					
	flowing and sh	ut-in pressure	s, whe	ther shut-in pre	essure reache	ed stati	c level, hydrosta	tic pressures, t		val tested, time tool erature, fluid recovery,
Final Radioactivit files must be sub							gs must be ema	iled to kcc-wel	l-logs@kcc.ks.gov	v. Digital electronic log
Drill Stem Tests T			Ye	es No		L		on (Top), Depth		Sample
Samples Sent to	Geological Sur	vey	Ye	es No		Nam	е		Тор	Datum
Cores Taken Electric Log Run Geolgist Report / List All E. Logs R	_		 Y€ Y€	es No						
			Repo		RECORD conductor, surfa	Ne	w Used	on, etc.		
Purpose of Str	ing Siz	e Hole		e Casing	Weight		Setting	Type of	# Sacks	Type and Percent
Fulpose of Sti	"' ^g D	rilled	Set	(In O.D.)	Lbs. / F	t.	Depth	Cement	Used	Additives
				ADDITIONAL	CEMENTING	i / SQL	JEEZE RECORD			
Purpose:		Depth Bottom	Type	of Cement	# Sacks U	sed		Type an	d Percent Additives	
Perforate Protect Cas	sing									
Plug Back Plug Off Zo										
1 lug Oli 20	JIIC .									
Did you perform	a hydraulic fractu	ring treatment o	n this w	ell?			Yes	No (If No,	skip questions 2 ar	nd 3)
2. Does the volume	e of the total base	fluid of the hydr	aulic fra	cturing treatmen	t exceed 350,00	00 gallo	ns? Yes	No (If No,	skip question 3)	
3. Was the hydrauli	ic fracturing treatr	nent information	submit	ted to the chemic	cal disclosure re	egistry?	Yes	No (If No,	fill out Page Three	of the ACO-1)
Date of first Produc	ction/Injection or F	Resumed Produc	ction/	Producing Met	hod:					
Injection:				Flowing	Pumping		Gas Lift C	other (Explain)		
Estimated Produc Per 24 Hours	tion	Oil Bbls	S.	Gas	Mcf	Wat	er Bl	ols.	Gas-Oil Ratio	Gravity
DISPO	SITION OF GAS	:		N	METHOD OF C	OMPLE	TION:			N INTERVAL:
Vented	Sold Use	d on Lease		Open Hole	Perf.			nmingled	Тор	Bottom
(If vente	d, Submit ACO-18.)				(Submit	ACO-5) (Subi	mit ACO-4)		
Shots Per	Perforation	Perforation	1	Bridge Plug	Bridge Plug		Acid,	Fracture, Shot, (Cementing Squeeze	Record
Foot	Тор	Bottom		Туре	Set At			(Amount and k	Kind of Material Used)	
						-				
TUBING RECORE): Size:		Set At:	<u> </u>	Packer At:					

Form	ACO1 - Well Completion					
Operator	H & B Petroleum Corp.					
Well Name	WELLMAN 1					
Doc ID	1363619					

All Electric Logs Run

Dual Induction
Compensated Density
Sonic
Micro

Form	ACO1 - Well Completion					
Operator	H & B Petroleum Corp.					
Well Name	WELLMAN 1					
Doc ID	1363619					

Tops

Name	Тор	Datum
Heebner	2825	
Toronto	2841	
Brown Lime	2964	
Lansing	2998	
Bottom Kansas City	3270	
Viola	3386	
Simpson	3440	
Arbuckle	3508	

Form	ACO1 - Well Completion					
Operator	H & B Petroleum Corp.					
Well Name	WELLMAN 1					
Doc ID	1363619					

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	32	351	60/40	250	3% Calcium 2% Gel
Production	7.875	5.5	15.5	3598	Common	180	10% Salt 2% Gel

GLOBAL OIL FIELD SERVICES, LLC

REMIT TO	24 S. Line			SE	SERVICE POINT:					
	Russell, K	LS 67665	llati di asi dita. Sa		Russia, KT					
DATE 11-70-17	SEC.	TWP "	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH			
LEASE 1/	WELL#.	1	LOCATION	n se		COUNTY	STATE			
HOW THE STATE OF T	A STREET WHEN Y	of the Spinish	LOCATION	Market States		A16	912013000			
OLD OR NEW (C	IRCLE ONE)			WAR CO.		Jan San Care				
CONTRACTOR 5	المريها الإساد	Deres.	R1#1	OWNER						
HOLE SIZE	CHICE	T.)	0.351	CEMENT						
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TUBING SIZE	*	Dl	EPTH		30 00	20/ 65	1			
DRILL PIPE			EPTH OF	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7,0 00		Del fore expire			
TOOL			EPTH			Sough is being	and right life by			
PRES. MAX			NIMUM	COMMON_		@				
MEAS. LINE	7.0	SF	OE JOINT	_ POZMIX		. @				
CEMENT LEFT IN C	56.20			GEL		. @				
DISPLACEMENT 7				_ CHLORIDE _		@				
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	EQUI MI					@				
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	all many					@				
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CITY	STATE	ZIP		of an reason of						
				1.20年前第二十五百 第20日本第二十五年	PLUG & FLO	AT EQUIPME	NT			
Global Oil Field	Services,	LLC	CHAIR STORY	district the second	Personal Property of the last	@				
You are hereby re	equested to	rent cemen	ting equipment an	d		@				
furnish cementer a	nd helper(s)	to assist ov	ner or contractor t	0	Control of the latest to the l	CONTRACTOR OF THE PROPERTY OF				
do work as is listed	 The abov 	e work was	done to satisfactio	n		@				
and supervision of	owner agen	it or contrac	tor. I have read an	d		@				
understand the "C	ENERAL '	TERMS AN	ID CONDITIONS	3>						
listed on the reverse	e side.					тота	L			
PRINTED NAME	Lesley	Pla	CC .	SALES TAX (I	f Any)	skille iku	(1) (1) (1) (1)			
SIGNATURE	1	PA		TOTAL CHAR						
Fre History	ad page	1//		DISCOUNT			TE PAID IN 30 DAYS			

GLOBAL OIL FIELD SERVICES, LLC

REMIT TO	24 S. Lind Russell, K		A Property of American Commission of American Commission of American	STATE OF	SE	RVICE POINT:	1-, 15	
*** **** - *****	SEC.	TWP.	RANGE	CAL	LED OUT	ON LOCATION	JOB START	JOB FINISH
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CONTRACTOR		San Carlo			OWNER			
TYPE OF JOB	average by	ir Cristal III	W 7		O WILL			
HOLE SIZE	W 100 00	T.	D.		CEMENT			
CASING SIZE			EPTH - COLL L	41,4	AMOUNT OR	DERED / 905	×	
TUBING SIZE	N NE SUIS	D	EPTH -		District Jo	W 20/	11 74	appear
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TOOL	44		EPTH 2 7 29 4 11	1			Mary C USA	
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	CEMENTER HELPER	Sera					@	20
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CHARGE TO:	BRIVERS	771		-				
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Global Oil Fie	ld Services	, LLC	5 v - 5 V 1 A 1 .	100			@	
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furnish cementer	and helper(s) to assist o	wner or contractor	to	601120		@	E SECTION
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understand the	"GENERAL	TERMS A	ND CONDITIONS	3"	- 1/yes 3-6-124	7		
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GLOBAL OIL FIELD SERVICES, LLC

REMIT TO 24 S. Lincoln Russell, KS 67665	SERVICE POINT:				
SEC. TWP RANGE CAL	LED OUT ON LOCATION	JOB START JOB FINISH			
DATE 6 -14-19		2.20 DA			
LEASE WELL# LOCATION A 1 12-12-12	- 0 4- 6.	COUNTY STATE			
OLD OR NEW (CIRCLE ONE)	63. 2E 4×	Kice Kawas			
CONTRACTOR	OWNER				
	West different forces and a late of the				
HOLE SIZE T.D.	CEMENT	· 生 () 日本国教者的从			
CASING SIZE DEPTH	AMOUNT ORDERED 50	SX Com.			
TUBING SIZE DEPTH					
DRILL PIPE DEPTH CHAS ALL TOOL DOWN TO THE DEPTH					
PRES. MAX MINIMUM	COMMON	@			
MEAS. LINE SHOE JOINT	POZMIX				
CEMENT LEFT IN CSG.	GEL	@			
PERFS BBL	CHLORIDE	<u> </u>			
DISPLACEMENT	ASC	- @			
DOLIMENT		_ @			
PUMP TRUCK CEMENTER		- @			
# 409 HELPER		<u> </u>			
BULK TRUCK	A SECTION OF MARKET STREET	@			
BULK TRUCK		@			
# DRIVER		_ @			
	HANDLING	@			
GOT APPROX 25-30 SX Coment	MILEAGE				
REMARKS: INTO FAMILIE		TOTAL			
Sat laster a 2551 1 Tost Role Post					
To I want (Here) Pull up To	SE	RVICE			
3399 + Set Porte, Took INSTON					
Rate of 3/4 Bim @ 1800 T.	DEPTH OF JOB				
PROSERVO BACKSON TO SOUT HELD MIXED	PUMP TRUCK CHARGE	AND THE PARTY OF T			
SUSX COMMI Characture 4 HAD	EXTRA FOOTAGE	- @ 			
CHOSE & DOING UP POACHED CLOCK Dul 50	MANIFOLD	_ @			
I Shor IN & SCOTI - MANES		- @			
11 20 00 0		- @			
CHARGE TO: HEB OIL CO.					
STREET		TOTAL —			
CITYSTATEZIP					
packer 3397- squary	PLUG & FLC	AT EQUIPMENT			
Global Oil Field Services, LLC	Supplied the state of the second supplied to	Annual Control of the			
You are hereby requested to rent cementing equipment and	A single south of the first of the second	_ @			
furnish cementer and helper(s) to assist owner or contractor to		- @			
do work as is listed. The above work was done to satisfaction		@			
and supervision of owner agent or contractor. I have read and		@			
understand the "GENERAL TERMS AND CONDITIONS"		First Device State			
listed on the reverse side.		TOTAL			
PRINTED NAME	SALES TAX (If Any)				
SIGNATURE Market 1	TOTAL CHARGES				
	DISCOUNT	IF PAID IN 30 DAYS			



H&B Petroleum Corp

33-21s-9w Rice, KS

PO Box 1305

Hutchinson KS 67504-1305

Wellman #1

Job Ticket: 64141

DST#: 1

ATTN: Wyatt Urban

Test Start: 2017.04.24 @ 10:05:47

GENERAL INFORMATION:

Time Tool Opened: 14:11:42

Time Test Ended: 18:22:26

Formation:

LKC A-C

Deviated:

No Whipstock: ft (KB)

Test Type:

Conventional Bottom Hole (Initial)

Tester:

Ray Schwager

Unit No:

3010.00 ft (KB) To 3052.00 ft (KB) (TVD)

Interval: Total Depth:

Start Date:

Start Time:

3052.00 ft (KB) (TVD)

Hole Diameter:

7.88 inches Hole Condition: Fair

Reference Elevations:

1706.00 ft (KB)

1697.00 ft (CF)

KB to GR/CF:

9.00 ft

Serial #: 8360

Inside Press@RunDepth:

118.88 psig @ 2017.04.24

10:05:47

3016.00 ft (KB) End Date:

End Time:

2017.04.24 18:22:26

Capacity: Last Calib.:

8000.00 psig

Time On Btm:

2017.04.24

Time Off Btm:

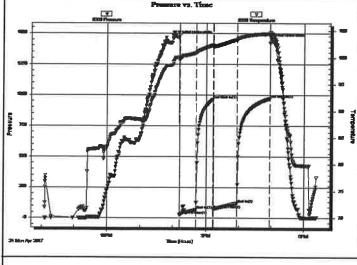
2017.04.24 @ 14:09:27 2017.04.24 @ 17:00:26

TEST COMMENT: 30-IFP-wk to a gd bl 1/2" to 9" bl

30-ISIP- no bl

45-FFP-wk to a gd bl 1/2" to 9" bl

60-FSIP-no bl



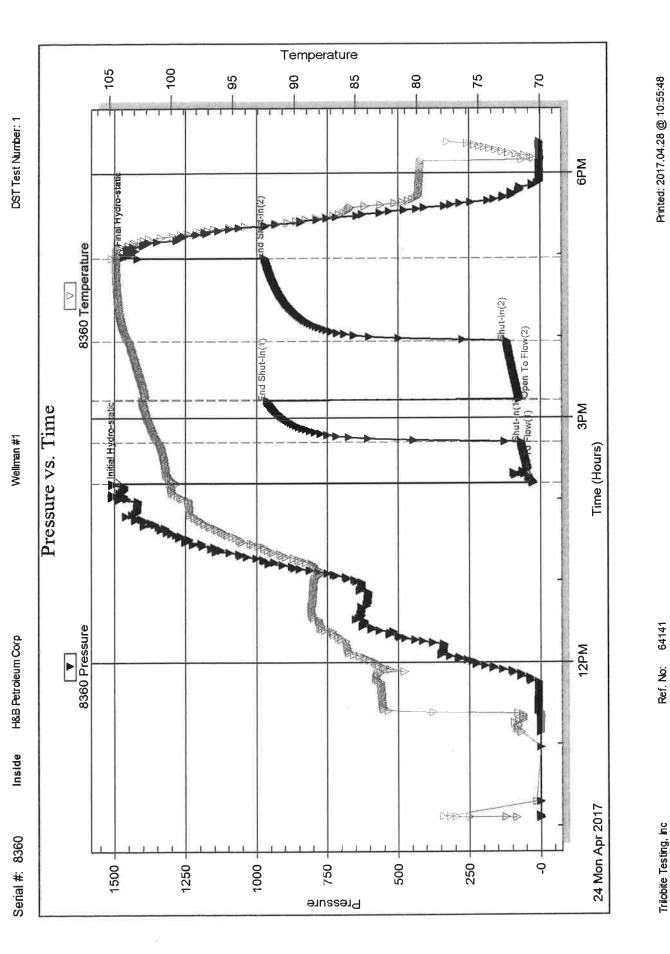
PRESSURE SUMMARY						
17	Time	Pressure	Temp	Annotation		
	(Min.)	(psig)	(deg F)			
1	0	1464.66	99.99	Initial Hydro-static		
	3	27.05	99.51	Open To Flow (1)		
	33	67.97	100.92	Shut-In(1)		
ı	64	963.88	102.34	End Shut-In(1)		
1	64	73.99	102.09	Open To Flow (2)		
	107	118.88	103.38	Shut-In(2)		
1	168	971.12	104.47	End Shut-In(2)		
1	171	1441.50	104.44	Final Hydro-static		
1						
١						
1						
١						
ı						

		Volume (bbl)
120.00	Water	1.68
90.00	MW 30%M70%W w/show of oil	1.26
2.00	co	0.03
0.00	60 GIP	0.00

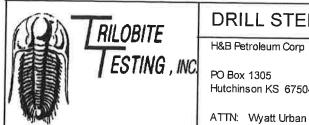
Trilobite Testing, Inc.

Ref. No: 64141

Printed: 2017.04.28 @ 10:55:45



Ref. No: 64141



H&B Petroleum Corp

33-21s-9w Rice, KS Wellman #1

PO Box 1305

Hutchinson KS 67504-1305

Job Ticket: 64142

DST#: 2

Test Start: 2017.04.25 @ 00:55:30

GENERAL INFORMATION:

Formation:

LKC D-F

Deviated:

Whipstock: No

ft (KB)

Time Tool Opened: 03:13:55

Time Test Ended: 07:29:54

Test Type: Conventional Bottom Hole (Reset)

Tester:

Ray Schwager

Unit No: 77

Reference Elevations:

1706.00 ft (KB)

1697.00 ft (CF)

KB to GR/CF:

9.00 ft

Interval: Total Depth: 3054.00 ft (KB) To 3087.00 ft (KB) (TVD)

3087.00 ft (KB) (TVD)

Hole Diameter:

7.88 inches Hole Condition: Fair

Serial*#: 8360 Press@RunDepth:

Inside

130.75 psig @

3060.00 ft (KB) End Date:

2017.04.25

Capacity:

8000.00 psig

Last Calib.: Time On Btm:

2017.04.25

2017.04.25 @ 03:10:55

Start Time:

Start Date:

2017.04.25 00:55:30

End Time:

07:29:54

Time Off Btm:

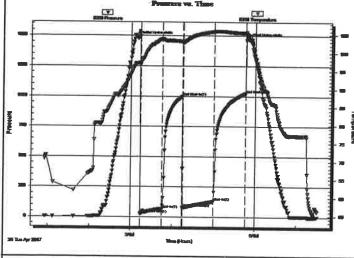
2017.04.25 @ 05:50:09

TEST COMMENT: 30-IFP-wkbl thru-out 1/2" to 1 1/4" bl

30-ISIP-no bl

45-FFP-w k bl thru-out 1/2 " to 2" bi

45-FSIP-no bl



25		Р	RESSUF	RE SUMMARY		
	Time	Pressure	Temp	Annotation		
	(Min.)	(psig)	(deg F)			
	0	1475.97	97.18	Initial Hydro-static		
	3	26.21	96.79	Open To Flow (1)		
	35	69.21	103.80	Shut-in(1)		
	64	998.96	103.06	End Shut-In(1)		
ğ	65	78.18	102.83	Open To Flow (2)		
Tarregment	109	130.75	105.85	Shut-In(2)		
2	155	1024.04	105.47	End Shut-In(2)		
	160	1465.63	104.82	Final Hydro-static		
ij						
-						

Recovery

Length (ft)	Description	Volume (bbl)	
120.00	Water	1.68	
60.00	MW 10%M90%W w/show of oil	0.84	
40.00	SOCMW 1%O40%M59%W	0.56	
5.00	00	0.07	
0.00	75'GIP	0.00	

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

Trilobite Testing, Inc.

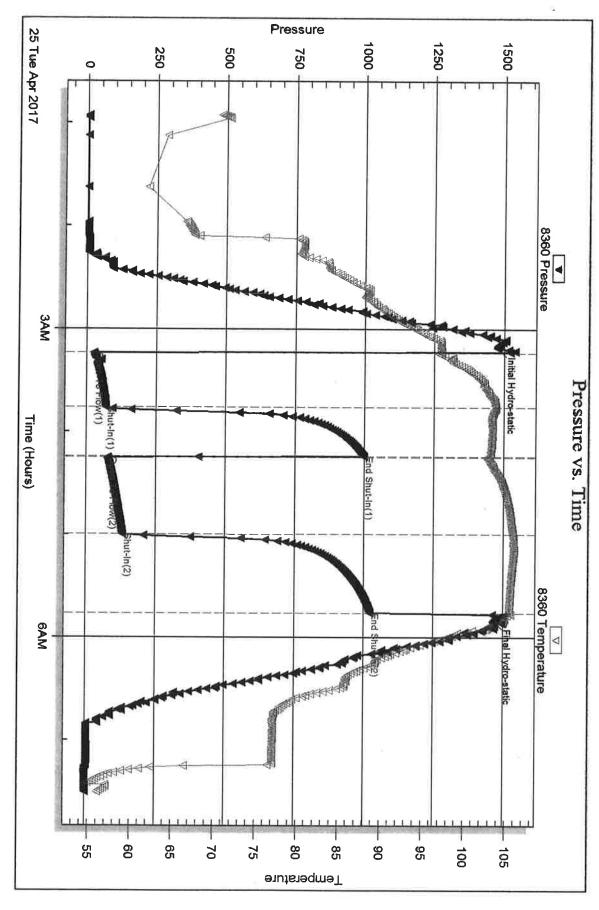
Ref. No: 64142

Printed: 2017.04.28 @ 10:55:22

Serial #: 8360

inside

H&B Petroleum Corp



Printed: 2017.04.28 @ 10:55:23



H&B Petroleum Corp

33-21s-9w Rice, KS

PO Box 1305

Hutchinson KS 67504-1305

Wellman #1

Job Ticket: 64143

DST#: 3

ATTN: Wyatt Urban

Test Start: 2017.04.26 @ 16:35:16

GENERAL INFORMATION:

Formation:

Simpson Sand

Deviated: No Time Tool Opened: 18:28:11

Time Test Ended: 23:01:25

ft (KB)

Test Type: Conventional Bottom Hole (Reset)

Tester:

Ray Schwager

Unit No:

Interval: Total Depth:

Hole Diameter:

3410.00 ft (KB) To 3465.00 ft (KB) (TVD)

3465.00 ft (KB) (TVD)

Whipstock:

7.88 inches Hole Condition: Fair

Reference Elevations:

1706.00 ft (KB)

KB to GR/CF:

1697.00 ft (CF) 9.00 ft

Serial #: 8360

Press@RunDepth:

Inside

194.22 psig @

3412.00 ft (KB)

2017.04.26

Capacity:

8000.00 psig

Start Date: Start Time:

2017.04.26 16:35:16

End Date: End Time:

23:01:25

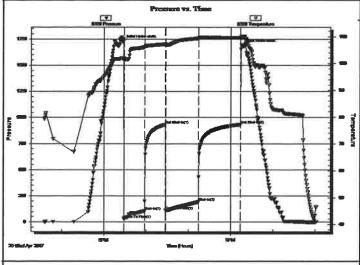
Last Calib.: Time On Btm: 2017.04.26

Time Off Btm:

2017.04.26 @ 18:26:56 2017.04.26 @ 21:16:40

TEST COMMENT: 30-IFP-BOB in 11 min

30-ISIP-wk surface bl bk 45-FFP-BOB in 14 min 60-FSIP-wk surface bl bk



ı	(Min.)	(psig)	(deg F)	
١	0	1720.81	101.92	Initial Hydro-static
ı	2	31.07	101.45	Open To Flow (1)
١	31	105.19	106.12	Shut-In(1)
ı	60	931.81	107.14	End Shut-In(1)
ı	61	110.63	106.88	Open To Flow (2)
ı	107	194.22	109.36	Shut-ln(2)
ı	167	932.55	109.51	End Shut-In(2)
١	170	1681.42	109.79	Final Hydro-static
ı				
I				
١				
١				

PRESSURE SUMMARY

Pressure Temp Annotation

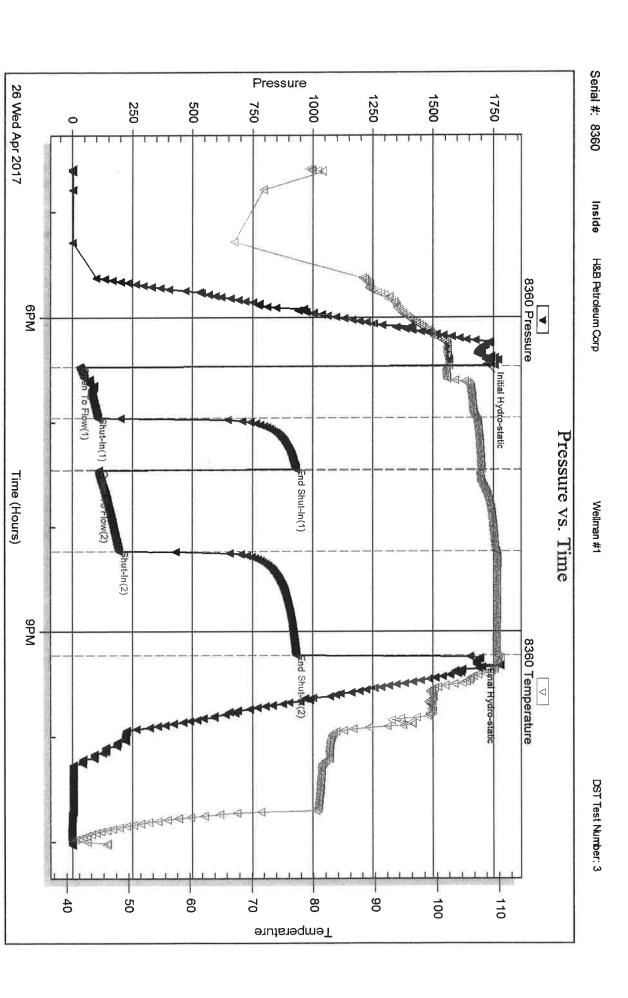
	Recovery		
Length (ft)	Description	Volume (bbl)	
120.00	SOCW 1% O99% W	1.68	
180.00	GOCMW 30%G6%O20%M44%W	2.52	
80.00	O&GCM 5%G8%O5%W82%M	1.12	
0.00	535' GIP	0.00	
Recovery from n	nultiple tests	<u> </u>	

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

Trilobite Testing, Inc.

Ref. No: 64143

Printed: 2017.04.28 @ 10:55:01



Trilobite Testing, Inc

Ref. No: 64143

Printed: 2017.04.28 @ 10:55:02



H&B Petroleum Corp

33-21s-9w Rice, KS

PO Box 1305

Wellman #1 Job Ticket: 64144

Hutchinson KS 67504-1305

DST#: 4

ATTN: Wyatt Urban

Test Start: 2017.04.27 @ 09:05:59

GENERAL INFORMATION:

Formation:

Arbuckle

Deviated:

No

Whipstock:

ft (KB)

Test Type: Conventional Bottom Hole (Reset)

Time Tool Opened: 11:24:54

Tester: Unit No: 77

Ray Schwager

Time Test Ended: 15:55:53

Interval: Total Depth: 3508.00 ft (KB) To 3516.00 ft (KB) (TVD)

Reference Elevations:

1706.00 ft (KB) 1697.00 ft (CF)

3516.00 ft (KB) (TVD)

KB to GR/CF:

9.00 ft

Hole Diameter:

7.88 inches Hole Condition: Fair

Start Date:

Serial #: 8360 Press@RunDepth: Inside

143.32 psig @ 2017.04.27

3510.00 ft (KB) End Date:

2017.04.27

Capacity: Last Calib.: 8000.00 psig

Start Time:

09:05:59

End Time:

15:55:53

Time On Btm:

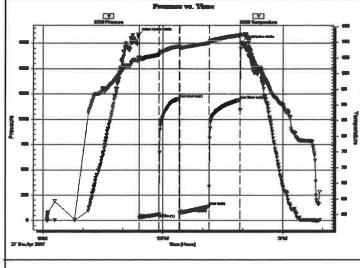
2017.04.27 2017.04.27 @ 11:23:39

Time Off Btm:

2017.04.27 @ 13:57:38

TEST COMMENT: 30-IFP-BOB in 5 min

30-ISIP-3/4" bl bk 45-FFP-BOB in 10 min 45-FSIP-no bl bk



PRESSURE SUMMARY

	T THE GOOT TE GOING WITH						
1	Time	Pressure	Temp	Annotation			
1	(Min.)	(psig)	(deg F)				
1	0	1831.59	105.09	Initial Hydro-static			
	2	28.81	104.41	Open To Flow (1)			
ı	31	62.22	105.97	Shut-In(1)			
ı	62	1203.82	108.66	End Shut-In(1)			
ı	62	75.70	108.26	Open To Flow (2)			
	106	143.32	109.79	Shut-In(2)			
1	153	1192.36	112.15	End Shut-In(2)			
	154	1754.03	112.41	Final Hydro-static			
ı							
١							
١							
ı							
1							
1							

Recovery

Length (ft)	Description	Volume (bbl)
20.00	GMO 35%G20%M45%O	0.28
330.00	co	4.63
0.00	515' GIP	0.00
* Recovery from r	nultiple tests	

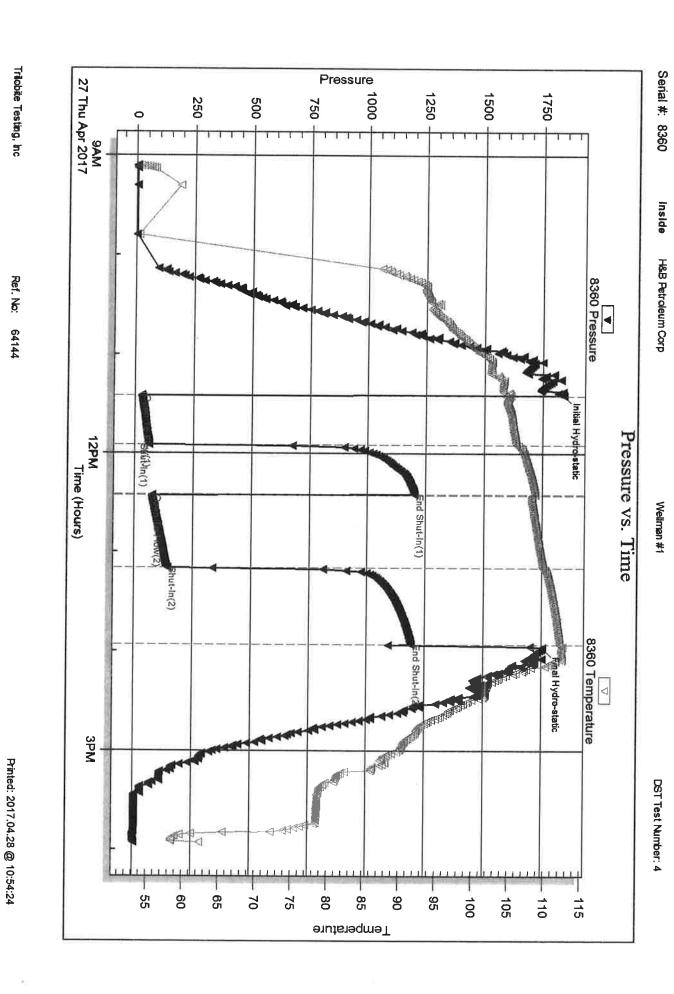
Gas Rates

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

Trilobite Testing, Inc

Ref. No: 64144

Printed: 2017.04.28 @ 10:54:24





H&B Petroleum Corp

33-21s-9w Rice,KS

Wellman #1

PO Box 1305 Hutchinson KS 67504-1305

Job Ticket: 64145

DST#: 5

ATTN: Wyatt Urban

Test Start: 2017.04.27 @ 22:55:25

GENERAL INFORMATION:

Formation: Deviated:

Arbuckle

Whipstock: No

ft (KB)

Test Type: Conventional Bottom Hole (Reset) Ray Schwager Tester:

Time Tool Opened: 00:19:05 Time Test Ended: 03:53:19

Interval:

3517.00 ft (KB) To 3535.00 ft (KB) (TVD)

Total Depth:

3535.00 ft (KB) (TVD)

Hole Diameter:

7.88 inches Hole Condition: Fair

Unit No: 77

1706.00 ft (KB) Reference Elevations:

1697.00 ft (CF)

KB to GR/CF:

9.00 ft

Serial #: 8360 Press@RunDepth: Inside

1302.51 psig @

3518.00 ft (KB)

Capacity:

8000.00 psig

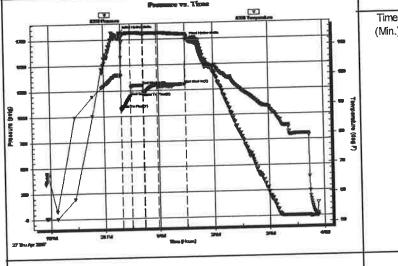
Start Date: Start Time: 2017.04.27 22:55:25 End Date: End Time: 2017.04.28 03:53:19 Last Calib.:

2017.04.28

Time On Btm: Time Off Btm: 2017.04.28 @ 00:17:50 2017.04.28 @ 01:31:35

TEST COMMENT: 10-IFP-BOB thru-out

15-ISIP-no bl bk 15-FFP-BOB thru-out 30-FSIP-no bl bk



	PRESSURE SUMMARY					
-	Time	Pressure	Temp	Annotation		
	(Min.)	(psig)	(deg F)			
	0	1812.16	100.26	Initial Hydro-static		
	2	1073.49	106.46	Open To Flow (1)		
'	12	1196.01	114.73	Shut-In(1)		
	26	1301.79	114.40	End Shut-In(1)		
1	26	1228.21	114.09	Open To Flow (2)		
Temperature (deg F	41	1302.51	114.51	Shut-In(2)		
(49	72	1303.79	113.99			
3	74	1744.31	111.96	Final Hydro-static		
				1		
				1		

Gas Rates

Choke (inches) Pressure (psig)

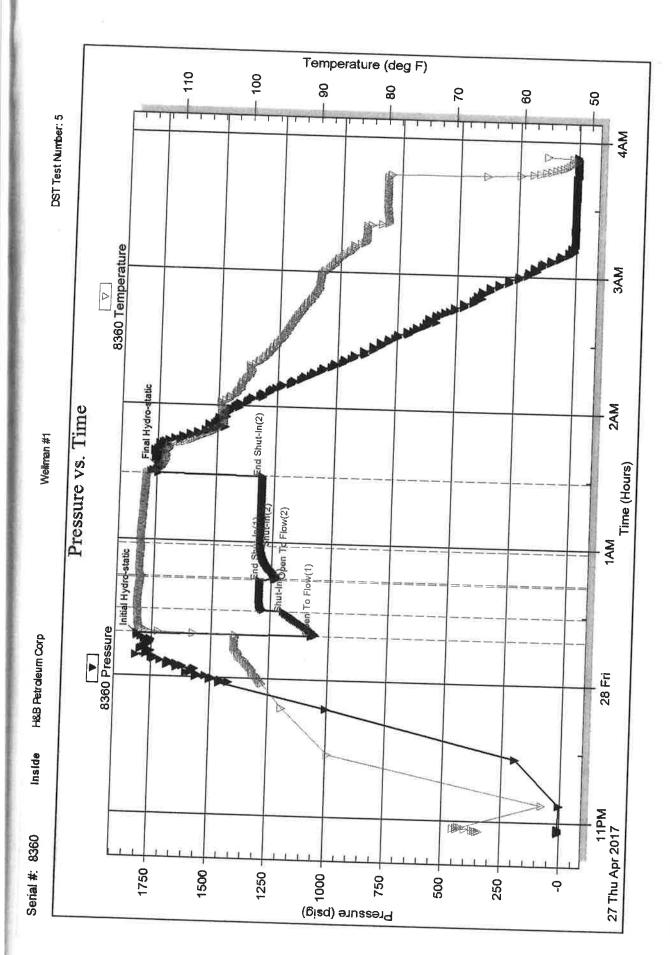
	Recovery	4
Length (ft)	Description	Volume (bbl)
120.00	MW 20%M80%W	1.68
2760.00	Water	38.72
* Recovery from	multiple tests	

Ref. No: 64145

Printed: 2017.04.28 @ 10:53:38

Gas Rate (N

Trilobite Testing, Inc.



Ref. No: 64145

NOTES

Company: H&B Petroleum Corp.

Lease: Wellman #1

Location: NE-SW-SE-SW (537' FSL & 1901' FWL)

Twsp: 21S Rge: 9W Sec: 33

County: Rice State: Kansas

Field: Rino

KB: 1706' GL: 1697'

Contractor: Southwind Drilling, Inc. (Rig #9) Spud: 04/20/2017 Comp: 04/28/2017

RTD: 3600' LTD: 3598'

Mud Up: 2600' Type Mud: Chemical

API #: 15-159-22841-00-00

Samples Saved From: 2700' to RTD Drilling Time Kept From: 2700' to RTD Samples Examined From: 2700' to RTD Geological Supervision from: 2700' to RTD

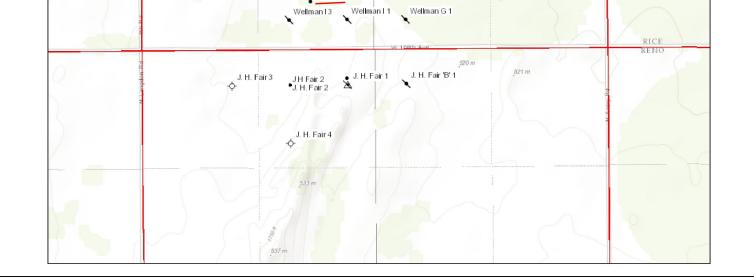
Geologist on Well: Wyatt Urban

Surface Casing: 8 5/8"@ 351'

Production Casing: 5 1/2" @ 3598'

Electronic Surveys: Logged by ELI: CDL/CNL, DIL, MEL, SONIC

H&B Petroleum Corp- Wellman #1 Fair 1 Wellman T 4 Wellman G 2



H&B Petroleum Corporation well comparison sheet

	DRILLING WELL			COMPARISON WELL			COMPARISON WELL					
	H&B I	etroleum	- Wellma	n #1	Thunderbird Drlg-Wellman #3			NCRA- I #2 WELLMAN				
	NE-SW-SE-SW					SW-SE-SW	r			NW-SE-SV	7	
	33-21s-9W				33-21s-9	W			33-21s-9	₩		
							Struct	ural			Struct	tural
	1706	кв			1703	KB	Relati	onship	1703	кв	Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Heebner	2825	-1119	2823	-1117	2824	-1121	2	4	2831	-1128	9	11
Toronto	2841	-1135	2840	-1134	2841	-1138	3	4				
Douglas	2860	-1154	2859	-1153	2859	-1156	2	3				
Brown Lime	2964	-1258	2956	-1250	2964	-1261	3	11	2969	-1266	8	16
Lansing	2998	-1292	2993	-1287	2994	-1291	-1	4	3002	-1299	7	12
BKC	3270	-1564	3275	-1569	3279	-1576	12	7				
Viola	3386	-1680	3385	-1679	3374	-1671	-9	-8	3440	-1737	57	58
Simpson Sh .	3440	-1734	3440	-1734	3426	-1723	-11	-11				
Simpson Sd.	3452	-1746	3451	-1745	3433	-1730	-16	-15	3498	-1795	49	50
Arbuckle	3508	-1802	3506	-1800	3491	-1788	-14	-12	3564	-1861	59	61
RTD	3600	-1894	3600	-1894	3499	-1796	-98	-98	3569	-1866	-28	-28
RTD	3598	-1892	3600	-1894	3498	-1795	-97	-99				



DRILL STEM TEST REPORT

H&B Petroleum Corp

33-21s-9w Rice

PO Box 1305

Hutchinson Ks 67504-1305

Wellman #1

Job Ticket: 64141

DST#: 1

ATTN: Al HammerSmith, Wyat

Test Start: 2017.04.24 @ 10:05:47

GENERAL INFORMATION:

Formation: LKC A-C

Time Tool Opened: 14:11:42

Time Test Ended: 18:22:26

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

Tester: Ray Schwager

Unit No: 77

3010.00 ft (KB) To 3052.00 ft (KB) (TVD) Interval:

Reference Elevations: 1706.00 ft (KB)

1697.00 ft (CF)

Total Depth: 3052.00 ft (KB) (TVD)

KB to GR/CF: 9.00 ft

Hole Diameter: 7.85 inches Hole Condition: Fair

Serial #: 8360 Inside

Press@RunDepth: 118.88 psig @ 3016.00 ft (KB) Capacity: 8000.00 psig

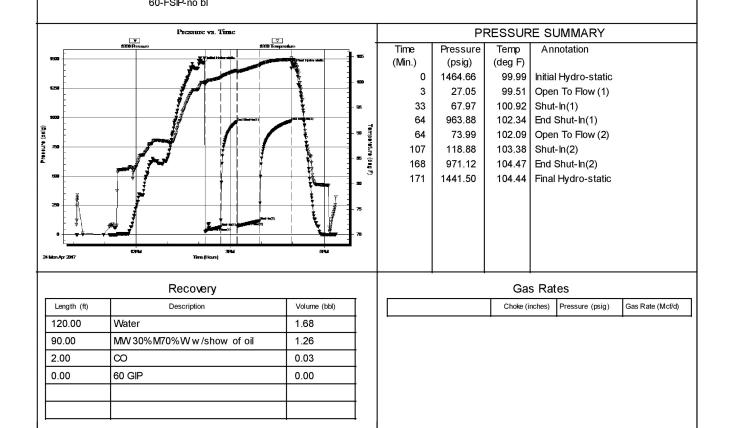
2017.04.24 Start Date: 2017.04.24 End Date: Last Calib.: 2017.04.24 10:05:47 18:22:26 Start Time: End Time: Time On Btm: 2017.04.24 @ 14:09:27

Time Off Btm: 2017.04.24 @ 17:00:26

TEST COMMENT: 30-IFP-wk to a gd bl 1/2to 9" bl

30-ISIP- no bl

45-FFP-wk to a gd bl 1/2"to 9"bl





H&B Petroleum Corp

PO Box 1305

Hutchinson Ks 67504-1305

ATTN: Al HammerSmith, Wyat

33-21s-9w Rice

Wellman #1

Test Type:

Reference Elevations:

Job Ticket: 64142 DST#: 2

Conventional Bottom Hole (Reset)

1706.00 ft (KB)

Test Start: 2017.04.25 @ 00:55:30

GENERAL INFORMATION:

Formation: LKC D-F

Deviated: Whipstock: ft (KB) No

Time Tool Opened: 03:13:55 Tester: Ray Schwager

Time Test Ended: 07:29:54 Unit No: 77

3054.00 ft (KB) To 3087.00 ft (KB) (TVD) Interval:

3087.00 ft (KB) (TVD) Total Depth:

1697.00 ft (CF) Hole Diameter: 7.85 inches Hole Condition: Fair KB to GR/CF: 9.00 ft

Serial #: 8360 Inside

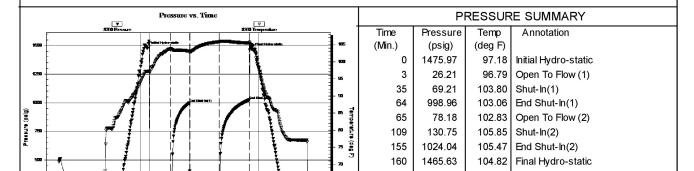
Press@RunDepth: 130.75 psig @ 3060.00 ft (KB) Capacity: 8000.00 psig Start Date: 2017.04.25 End Date: 2017.04.25 Last Calib .: 2017.04.25 Start Time: End Time: 00:55:30 07:29:54 Time On Btm: 2017.04.25 @ 03:10:55 Time Off Btm: 2017.04.25 @ 05:50:09

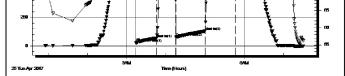
TEST COMMENT: 30-IFP-w k bl thru-out 1/2"to 1 1/4"bl

30-ISIP-no bl

45-FFP-w k bl thru-out 1/2 " to 2"bl

45-FSIP-no bl





Recovery

Length (ft)	Description	Volume (bbl)				
120.00	Water	1.68				
60.00	MW 10% M90% W w /show of oil	0.84				
40.00	SOCMW 1% O40% M59% W	0.56				
5.00	co	0.07				
0.00	75'GIP	0.00				
* Recovery from multiple tests						

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

H&B Petroleum Corp

PO Box 1305

Hutchinson Ks 67504-1305

ATTN: AI Hammer Smith, Wyat

33-21s-9w Rice

Wellman #1

Job Ticket: 64143 DST#: 3

Test Start: 2017.04.26 @ 16:35:16

GENERAL INFORMATION:

Formation: Simp. Sd

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:28:11 Time Test Ended: 23:01:25

Interval: 3410.00 ft (KB) To 3465.00 ft (KB) (TVD)

Total Depth: 3465.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schwager

Unit No: 77

Capacity:

Reference Elevations: 1706.00 ft (KB)

1697.00 ft (CF)

8000.00 psig

KB to GR/CF: 9.00 ft

Serial #: 8360 Inside

Press@RunDepth: 194.22 psig @ 3412.00 ft (KB)

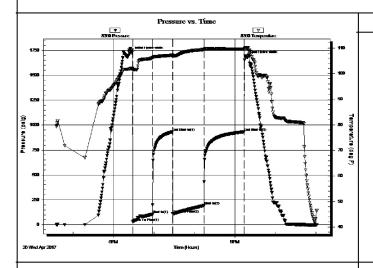
 Start Date:
 2017.04.26
 End Date:
 2017.04.26
 Last Calib.:
 2017.04.26

 Start Time:
 16:35:16
 End Time:
 23:01:25
 Time On Btm:
 2017.04.26 @ 18:26:56

Time Off Btm: 2017.04.26 @ 21:16:40

TEST COMMENT: 30-IFP-BOB in 11min

30-ISIP-w k surface bl bk 45-FFP-BOB in 14 min 60-FSIP-w k surface bl bk



PRESSURE SUMMARY

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	1720.81	101.92	Initial Hydro-static
2	31.07	101.45	Open To Flow (1)
31	105.19	106.12	Shut-ln(1)
60	931.81	107.14	End Shut-In(1)
61	110.63	106.88	Open To Flow (2)
107	194.22	109.36	Shut-In(2)
167	932.55	109.51	End Shut-In(2)
170	1681.42	109.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	SOCW 1%O 99%W	1.68
180.00	GOCMW 30%G 6%O 20%M 44%W	2.52
80.00	O&GCM 5% G 8% O 5% W 82% M	1.12

Gas Rates

Choke (inches)	Dressure (neig)	Gas Rate (Mcf/d)
Choke (inches)	riessule (psig)	Gas Rate (IVICI/U)

0.00	535 GIP	0.00				
* Recovery from multiple tests						



H&B Petroleum Corp

33-21s-9w Rice

PO Box 1305

Hutchinson Ks 67504-1305

Wellman #1

Job Ticket: 64144

DST#: 4

ATTN: Al HammerSmith, Wyat

Test Start: 2017.04.27 @ 09:05:59

GENERAL INFORMATION:

Formation: Arbuckle

Time Tool Opened: 11:24:54

Time Test Ended: 15:55:53

Deviated: Whipstock: ft (KB) No

Test Type: Conventional Bottom Hole (Reset) Tester: Ray Schwager

Unit No:

Reference Elevations:

1706.00 ft (KB)

Total Depth: 3516.00 ft (KB) (TVD)

7.85 inches Hole Condition: Fair

3508.00 ft (KB) To 3516.00 ft (KB) (TVD)

1697.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8360 Inside

Press@RunDepth: 143.32 psig @

3510.00 ft (KB) 2017.04.27 End Date:

2017.04.27

Capacity: Last Calib.: 8000.00 psig

Start Date: Start Time:

Interval:

Hole Diameter:

09:05:59

End Time:

15:55:53

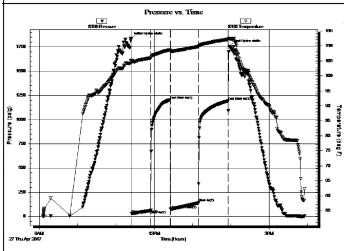
2017.04.27 Time On Btm: 2017.04.27 @ 11:23:39

Time Off Btm: 2017.04.27 @ 13:57:38

PRESSURE SUMMARY

TEST COMMENT: 30-IFP-BOB in 5 min

30-ISIP-3/4"bl bk 45-FFP-BOB in 10min 45-FSIP-no bl bk



Ī	Time	Pressure	Temp	Annotation				
	(Min.)	(psig)	(deg F)					
	0	1831.59	105.09	Initial Hydro-static				
	2	28.81	104.41	Open To Flow (1)				
	31	62.22	105.97	Shut-In(1)				
	62	1203.82	108.66	End Shut-In(1)				
	62	75.70	108.26	Open To Flow (2)				
	106	143.32	109.79	Shut-In(2)				
	153	1192.36	112.15	End Shut-In(2)				
,	154	1754.03	112.41	Final Hydro-static				

Recovery

Length (ft)	Description	Volume (bbl)
20.00	GMO 35% G20% M45% O	0.28
330.00	8	4.63
0.00	515' GIP	0.00
* Decovery from mult	Sala tanta	

Gas Rates

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

DRILL STEM TEST REPORT

H&B Petroleum Corp

33-21s-9w Rice

PO Box 1305 Hutchinson Ks 67504-1305 Wellman #1



ATTN: Al HammerSmith, Wyat

Job Ticket: 64145

Tester:

Unit No:

GENERAL INFORMATION:

Formation: Arbuckle

Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)

Time Tool Opened: 00:19:05 Time Test Ended: 03:53:19

Interval: 3517.00 ft (KB) To 3535.00 ft (KB) (TVD)

Total Depth: 3535.00 ft (KB) (TVD) Reference Elevations: 1706.00 ft (KB) 1697.00 ft (CF)

Ray Schwager

77

Test Start: 2017.04.27 @ 22:55:25

Hole Diameter: 7.85 inches Hole Condition: Fair KB to GR/CF: 9.00 ft

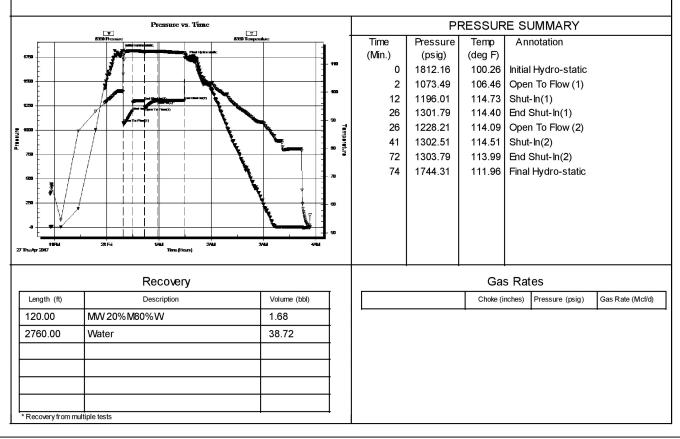
Serial #: 8360 Inside

Press@RunDepth: 1302.51 psig @ 3518.00 ft (KB) Capacity: 8000.00 psig

Start Date: 2017.04.27 End Date: 2017.04.28 Last Calib .: 2017.04.28 Start Time: 22:55:25 End Time: 03:53:19 Time On Btm: 2017.04.28 @ 00:17:50 Time Off Btm: 2017.04.28 @ 01:31:35

TEST COMMENT: 10-IFP-BOB thru-out

15-ISIP-no bl bk 15-FFP-BOB thru-out 30-FSIP-no bl bk





Dolprim



DST

BST Int

DST alt Core

II tail pipe

Lmst fw<7 shale, grn



shale, gry Carbon Sh



shale, red

ACCESSORIES

STRINGER

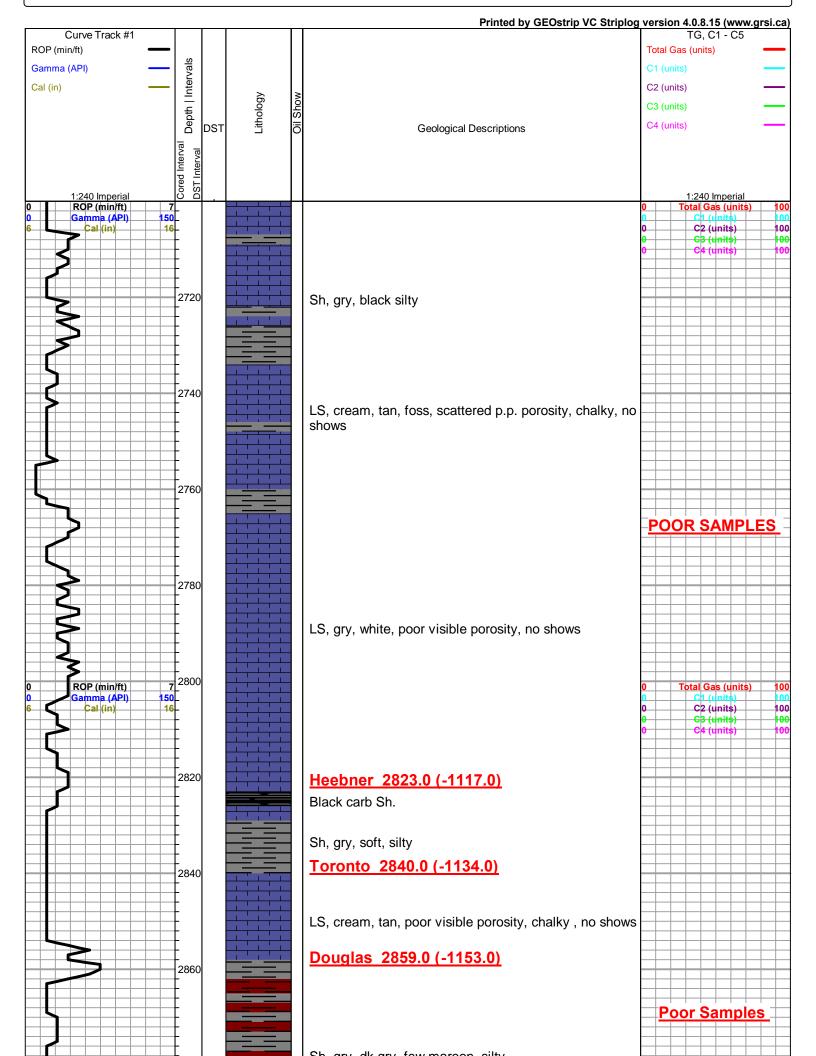
--- Sandstone

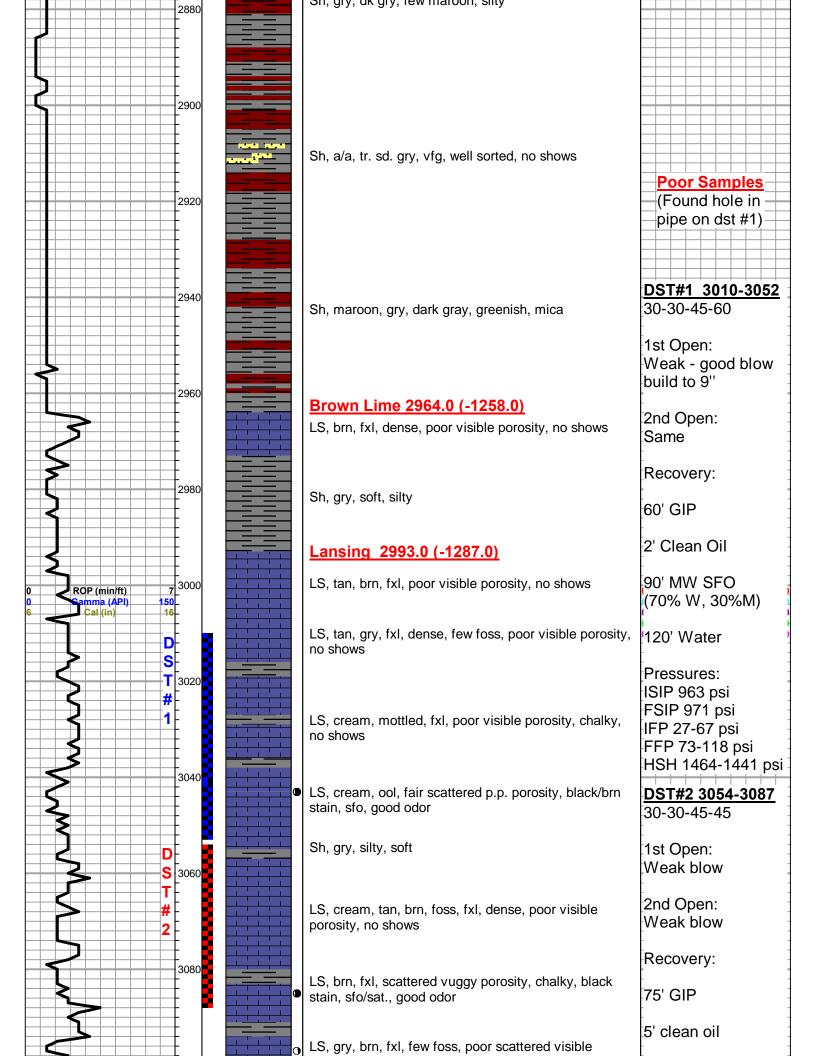
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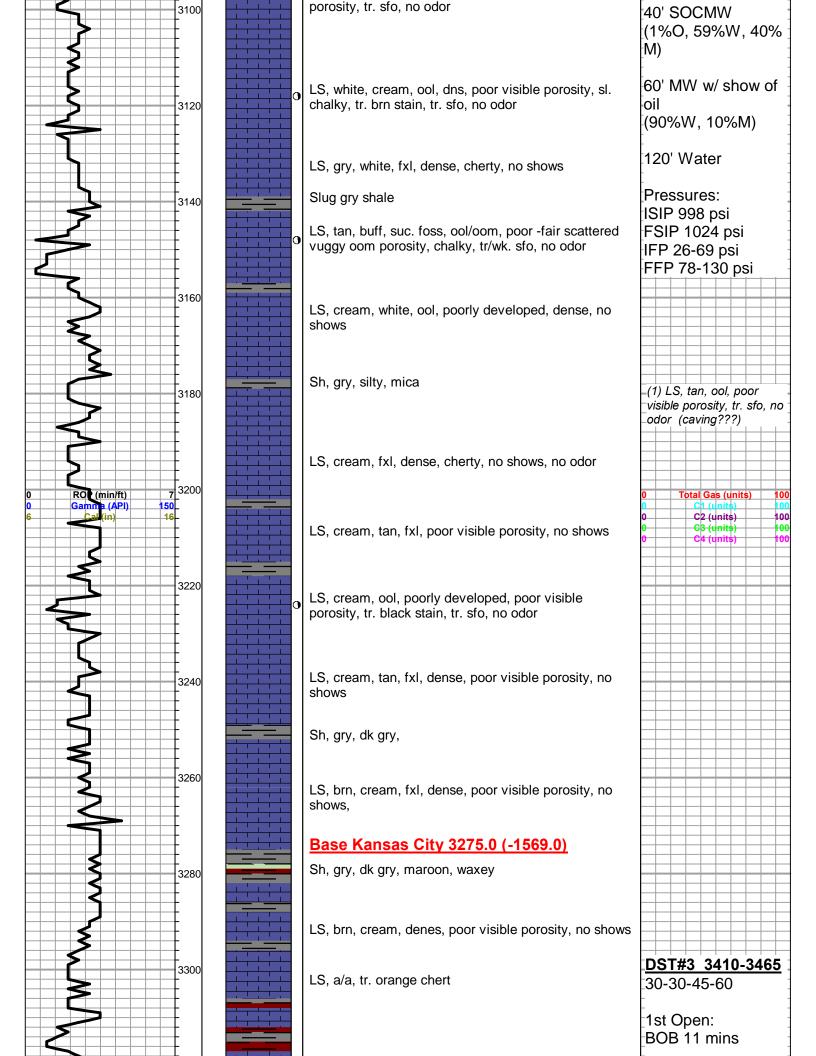
Oil Show

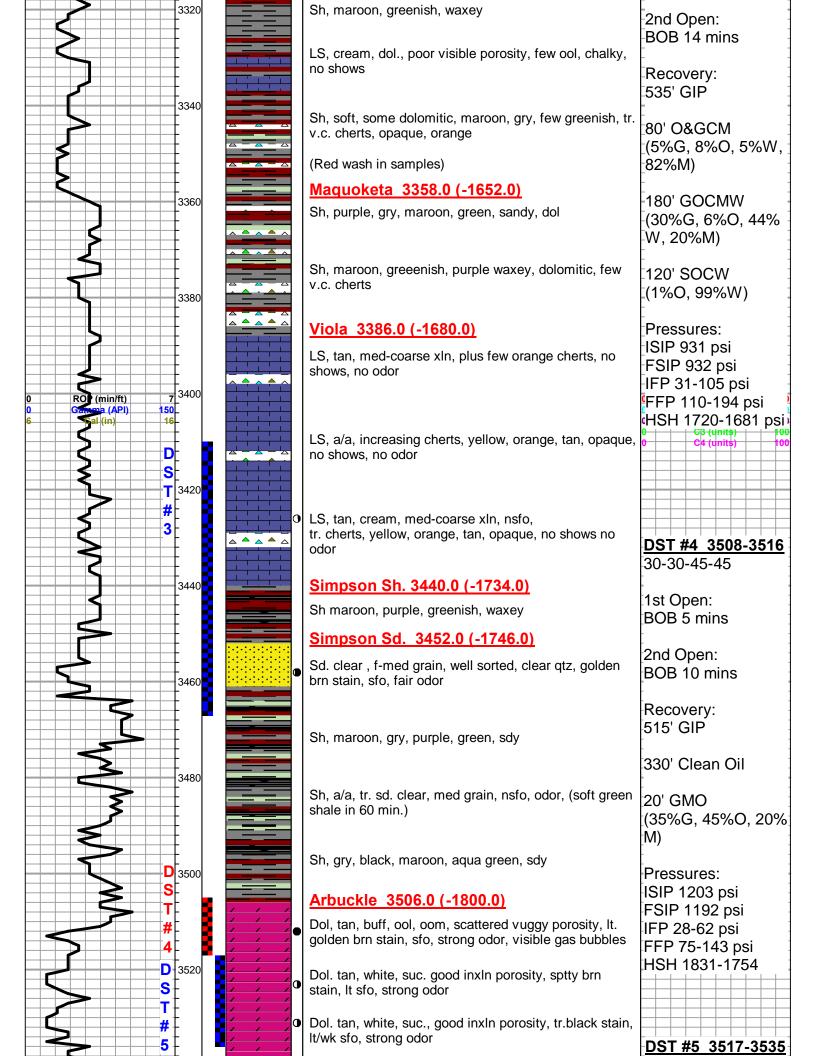
- Good Show
- Fair Show
- Poor Show
- O Spotted or Trace O Questionable Stn
- D Dead Oil Stn
- Fluorescence

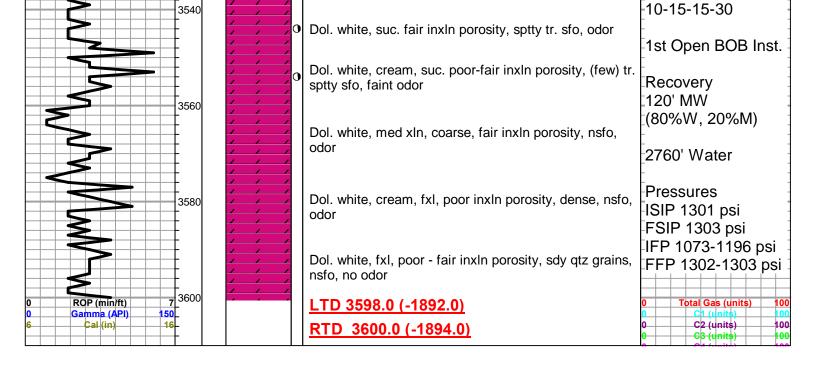
* Gas











NOTES

Company: H&B Petroleum Corp.

Lease: Wellman #1

Location: NE-SW-SE-SW (537' FSL & 1901' FWL)

Twsp: 21S Rge: 9W Sec: 33

County: Rice State: Kansas

Field: Rino

KB: 1706' GL: 1697'

Contractor: Southwind Drilling, Inc. (Rig #9) Spud: 04/20/2017 Comp: 04/28/2017

RTD: 3600' LTD: 3598'

Mud Up: 2600' Type Mud: Chemical

API #: 15-159-22841-00-00

Samples Saved From: 2700' to RTD Drilling Time Kept From: 2700' to RTD Samples Examined From: 2700' to RTD Geological Supervision from: 2700' to RTD

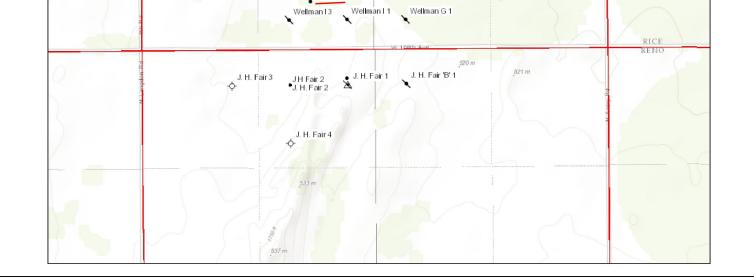
Geologist on Well: Wyatt Urban

Surface Casing: 8 5/8"@ 351'

Production Casing: 5 1/2" @ 3598'

Electronic Surveys: Logged by ELI: CDL/CNL, DIL, MEL, SONIC

H&B Petroleum Corp- Wellman #1 Fair 1 Wellman T 4 Wellman G 2



H&B Petroleum Corporation well comparison sheet

	DRILLING WELL			COMPARISON WELL			COMPARISON WELL					
	H&B I	etroleum	- Wellma	n #1	Thunderbird Drlg-Wellman #3			NCRA- I #2 WELLMAN				
	NE-SW-SE-SW					SW-SE-SW	r			NW-SE-SV	7	
	33-21s-9W				33-21s-9	W			33-21s-9	₩		
							Struct	ural			Struct	tural
	1706	кв			1703	KB	Relati	onship	1703	кв	Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Heebner	2825	-1119	2823	-1117	2824	-1121	2	4	2831	-1128	9	11
Toronto	2841	-1135	2840	-1134	2841	-1138	3	4				
Douglas	2860	-1154	2859	-1153	2859	-1156	2	3				
Brown Lime	2964	-1258	2956	-1250	2964	-1261	3	11	2969	-1266	8	16
Lansing	2998	-1292	2993	-1287	2994	-1291	-1	4	3002	-1299	7	12
BKC	3270	-1564	3275	-1569	3279	-1576	12	7				
Viola	3386	-1680	3385	-1679	3374	-1671	-9	-8	3440	-1737	57	58
Simpson Sh .	3440	-1734	3440	-1734	3426	-1723	-11	-11				
Simpson Sd.	3452	-1746	3451	-1745	3433	-1730	-16	-15	3498	-1795	49	50
Arbuckle	3508	-1802	3506	-1800	3491	-1788	-14	-12	3564	-1861	59	61
RTD	3600	-1894	3600	-1894	3499	-1796	-98	-98	3569	-1866	-28	-28
RTD	3598	-1892	3600	-1894	3498	-1795	-97	-99				



DRILL STEM TEST REPORT

H&B Petroleum Corp

33-21s-9w Rice

PO Box 1305

Hutchinson Ks 67504-1305

Wellman #1

Job Ticket: 64141

DST#: 1

ATTN: Al HammerSmith, Wyat

Test Start: 2017.04.24 @ 10:05:47

GENERAL INFORMATION:

Formation: LKC A-C

Time Tool Opened: 14:11:42

Time Test Ended: 18:22:26

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

Tester: Ray Schwager

Unit No: 77

3010.00 ft (KB) To 3052.00 ft (KB) (TVD) Interval:

Reference Elevations: 1706.00 ft (KB)

1697.00 ft (CF)

Total Depth: 3052.00 ft (KB) (TVD)

KB to GR/CF: 9.00 ft

Hole Diameter: 7.85 inches Hole Condition: Fair

Serial #: 8360 Inside

Press@RunDepth: 118.88 psig @ 3016.00 ft (KB) Capacity: 8000.00 psig 2017.04.24

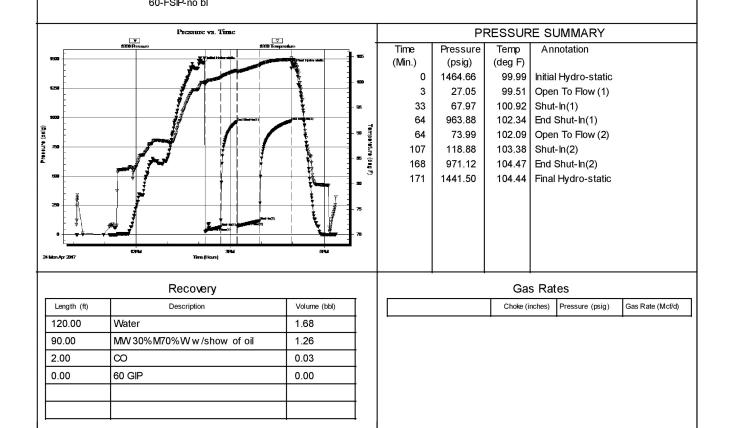
Start Date: 2017.04.24 End Date: Last Calib.: 2017.04.24 10:05:47 18:22:26 Start Time: End Time: Time On Btm: 2017.04.24 @ 14:09:27

Time Off Btm: 2017.04.24 @ 17:00:26

TEST COMMENT: 30-IFP-wk to a gd bl 1/2to 9" bl

30-ISIP- no bl

45-FFP-wk to a gd bl 1/2"to 9"bl





H&B Petroleum Corp

PO Box 1305

Hutchinson Ks 67504-1305

ATTN: Al HammerSmith, Wyat

33-21s-9w Rice

Wellman #1

Test Type:

Reference Elevations:

Job Ticket: 64142 DST#: 2

Conventional Bottom Hole (Reset)

1706.00 ft (KB)

Test Start: 2017.04.25 @ 00:55:30

GENERAL INFORMATION:

Formation: LKC D-F

Deviated: Whipstock: ft (KB) No

Time Tool Opened: 03:13:55 Tester: Ray Schwager

Time Test Ended: 07:29:54 Unit No: 77

3054.00 ft (KB) To 3087.00 ft (KB) (TVD) Interval:

3087.00 ft (KB) (TVD) Total Depth:

1697.00 ft (CF) Hole Diameter: 7.85 inches Hole Condition: Fair KB to GR/CF: 9.00 ft

Serial #: 8360 Inside

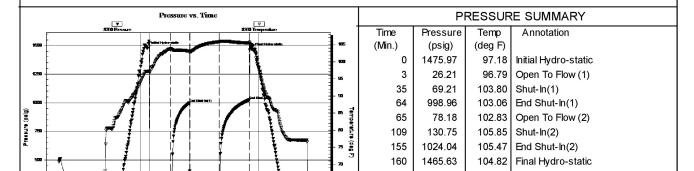
Press@RunDepth: 130.75 psig @ 3060.00 ft (KB) Capacity: 8000.00 psig Start Date: 2017.04.25 End Date: 2017.04.25 Last Calib .: 2017.04.25 Start Time: End Time: 00:55:30 07:29:54 Time On Btm: 2017.04.25 @ 03:10:55 Time Off Btm: 2017.04.25 @ 05:50:09

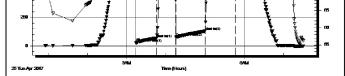
TEST COMMENT: 30-IFP-w k bl thru-out 1/2"to 1 1/4"bl

30-ISIP-no bl

45-FFP-w k bl thru-out 1/2 " to 2"bl

45-FSIP-no bl





Recovery

Length (ft)	Description	Volume (bbl)				
120.00	Water	1.68				
60.00	MW 10% M90% W w /show of oil	0.84				
40.00	SOCMW 1% O40% M59% W	0.56				
5.00	co	0.07				
0.00	75'GIP	0.00				
* Recovery from multiple tests						

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

H&B Petroleum Corp

PO Box 1305

Hutchinson Ks 67504-1305

ATTN: AI Hammer Smith, Wyat

33-21s-9w Rice

Wellman #1

Job Ticket: 64143 DST#: 3

Test Start: 2017.04.26 @ 16:35:16

GENERAL INFORMATION:

Formation: Simp. Sd

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:28:11 Time Test Ended: 23:01:25

Interval: 3410.00 ft (KB) To 3465.00 ft (KB) (TVD)

Total Depth: 3465.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schwager

Unit No: 77

Capacity:

Reference Elevations: 1706.00 ft (KB)

1697.00 ft (CF)

8000.00 psig

KB to GR/CF: 9.00 ft

Serial #: 8360 Inside

Press@RunDepth: 194.22 psig @ 3412.00 ft (KB)

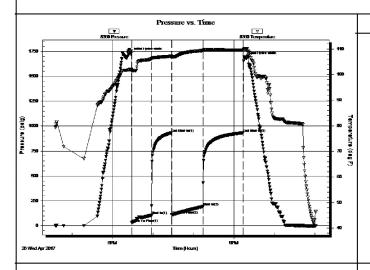
 Start Date:
 2017.04.26
 End Date:
 2017.04.26
 Last Calib.:
 2017.04.26

 Start Time:
 16:35:16
 End Time:
 23:01:25
 Time On Btm:
 2017.04.26 @ 18:26:56

Time Off Btm: 2017.04.26 @ 21:16:40

TEST COMMENT: 30-IFP-BOB in 11min

30-ISIP-w k surface bl bk 45-FFP-BOB in 14 min 60-FSIP-w k surface bl bk



PRESSURE SUMMARY

Time	Pressure	Temp	Annotation	
(Min.)	(psig)	(deg F)		
0	1720.81	101.92	Initial Hydro-static	
2	31.07	101.45	Open To Flow (1)	
31	105.19	106.12	Shut-ln(1)	
60	931.81	107.14	End Shut-In(1)	
61	110.63	106.88	Open To Flow (2)	
107	194.22	109.36	Shut-In(2)	
167	932.55	109.51	End Shut-In(2)	
170	1681.42	109.79	Final Hydro-static	

Recovery

Length (ft)	Description	Volume (bbl)
120.00	SOCW 1% O 99% W	1.68
180.00	GOCMW 30%G 6%O 20%M 44%W	2.52
80.00	O&GCM 5% G 8% O 5% W 82% M	1.12

Gas Rates

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

	0.00	535 GIP	0.00
* Recovery from multiple tests			



H&B Petroleum Corp

33-21s-9w Rice

PO Box 1305

Hutchinson Ks 67504-1305

Wellman #1

Job Ticket: 64144

DST#: 4

ATTN: AI HammerSmith, Wyat

Test Start: 2017.04.27 @ 09:05:59

GENERAL INFORMATION:

Formation: Arbuckle

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:24:54

Time Test Ended: 15:55:53
Interval: 3508.00 ft (KB) To 3516.00 ft (KB) (TVD)

Total Depth: 3516.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schwager

Unit No: 77

Reference Elevations: 1706.00 ft (KB)

1697.00 ft (CF)

KB to GR/CF: 9.00 ft

2017.04.27 @ 13:57:38

Serial #: 8360 Inside

Start Time:

Press@RunDepth: 143.32 psig @ Start Date: 2017.04.27

143.32 psig @ 3510.00 ft (KB) 2017.04.27 End Date:

End Time:

End Date: 20

2017.04.27 I

15:55:53

Capacity: Last Calib.:

Time Off Btm:

8000.00 psig 2017.04.27

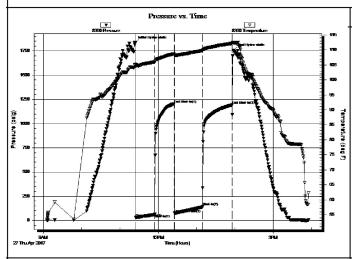
Time On Btm: 2017.04.27 @ 11:23:39

PRESSURE SUMMARY

TEST COMMENT: 30-IFP-BOB in 5 min

30-ISIP-3/4"bl bk 45-FFP-BOB in 10min 45-FSIP-no bl bk

09:05:59



Annotation Pressure Temp Time (Min.) (deg F) (psig) 0 1831.59 105.09 Initial Hydro-static 2 28.81 104.41 Open To Flow (1) 31 62.22 105.97 Shut-In(1) 62 1203.82 108.66 End Shut-In(1) 62 75.70 108.26 Open To Flow (2) 106 143.32 109.79 Shut-In(2) 1192.36 End Shut-In(2) 153 112.15 154 1754.03 Final Hydro-static 112.41

Recovery

Length (ft)	Description	Volume (bbl)
20.00	GMO 35% G20% M45% O	0.28
330.00	330.00 CO	
0.00	515' GIP	0.00
* Decovery from mult	inla tasta	

Gas Rates

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

* Recovery from multiple tests

DRILL STEM TEST REPORT

H&B Petroleum Corp

33-21s-9w Rice

PO Box 1305
Hutchinson Ks 67504-1305

Wellman #1



ATTN: Al HammerSmith, Wyat

Job Ticket: 64145

Tester:

Unit No:

GENERAL INFORMATION:

Formation: Arbuckle

Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)

Time Tool Opened: 00:19:05 Time Test Ended: 03:53:19

Interval: 3517.00 ft (KB) To 3535.00 ft (KB) (TVD)

Total Depth: 3535.00 ft (KB) (TVD) Reference Elevations: 1706.00 ft (KB) 1697.00 ft (CF)

Ray Schwager

77

Test Start: 2017.04.27 @ 22:55:25

Hole Diameter: 7.85 inches Hole Condition: Fair KB to GR/CF: 9.00 ft

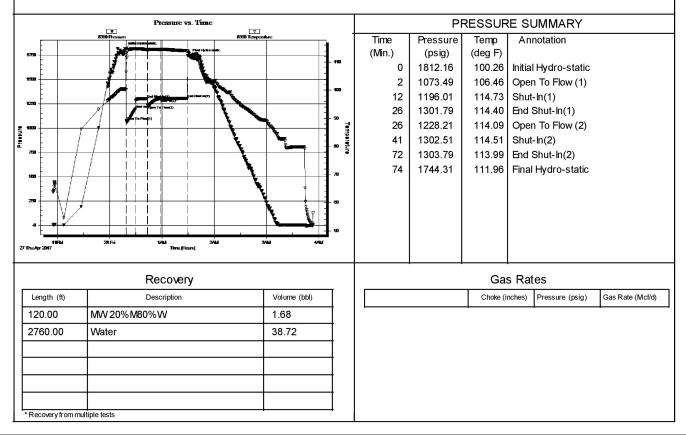
Serial #: 8360 Inside

Press@RunDepth: 1302.51 psig @ 3518.00 ft (KB) Capacity: 8000.00 psig

Start Date: 2017.04.27 End Date: 2017.04.28 Last Calib .: 2017.04.28 Start Time: 22:55:25 End Time: 03:53:19 Time On Btm: 2017.04.28 @ 00:17:50 Time Off Btm: 2017.04.28 @ 01:31:35

TEST COMMENT: 10-IFP-BOB thru-out

15-ISIP-no bl bk 15-FFP-BOB thru-out 30-FSIP-no bl bk





Dolprim



DST

BST Int

DST alt Core

II tail pipe

Lmst fw<7 shale, grn



shale, gry Carbon Sh



shale, red

ACCESSORIES

STRINGER

--- Sandstone

OTHER SYMBOLS

Oil Show

- Good Show
- Fair Show
- Poor Show
- O Spotted or Trace O Questionable Stn
- D Dead Oil Stn
- Fluorescence
- * Gas

