KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1369904

Form ACO-1 November 2016 Form must be Typed Form must be Signed All blanks must be Filled

WELL COMPLETION FORM

WELL HISTORY	- DESCR	IPTION OF	WELL 8	LEASE

OPERATOR: License #	API No.:
Name:	Spot Description:
Address 1:	Sec TwpS. R East West
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: ()	
CONTRACTOR: License #	
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 Workow	Field Name:
	Producing Formation:
	Elevation: Ground: Kelly Bushing:
☐ Gas ☐ DH ☐ EOR □ 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.):	
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet
Operator:	
Well Name:	
Original Comp. Date: Original Total Depth: _	
	onv. to SWD Drilling Fluid Management Plan
Plug Back Liner Conv. to GSW Co	
	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 #:	Operator Name:
GSW Permit #:	Lease Name: License #:
	Quarter Sec TwpS. R [] East [] West
Spud Date or Date Reached TD Completion	1 Date or
Recompletion Date Recomplet	ion 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	1369904
Operator Name:	Lease Name:	Well #:
Sec TwpS. R □ East □ West	County:	
INSTRUCTIONS: Show important tops of formations penetrated	Detail all cores Benort all final	copies of drill stems tests giving interval tested, time tool

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 Taken (Attach Additional Sheets)			Yes No		Lo	g Formatio	n (Top), Dep	th and Datum	Sample		
Samples Sent to	Geological Sur	vey	Yes No		Name			Тор	Datum		
Cores Taken Electric Log Run Geolgist Report, List All E. Logs F	/ Mud Logs		Yes No Yes No Yes No								
			CASING Report all strings set-	RECORD	_ New e, interi		on, etc.				
Purpose of St		e Hole rilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.		Setting Depth	Type of Cemen		Type and Percent Additives		
		· · ·	ADDITIONA	L CEMENTING /	SQUE	EZE RECORD	·				
Purpose: Perforate		epth Bottom	Type of Cement	# Sacks Used			Туре	Type and Percent Additives			
Protect Ca	TD										
Plug Off Z	one										
	e of the total base	fluid of the hydrau	this well? ulic fracturing treatmen ubmitted to the chemi		-	Yes s? Yes Yes	No (If N	lo, skip questions 2 an lo, skip question 3) lo, fill out Page Three (
Date of first Produ Injection:	iction/Injection or F	Resumed Producti	on/ Producing Me	thod:	G	Gas Lift 🗌 O	ther <i>(Explain)</i> .				
Estimated Produc Per 24 Hours		Oil Bbls.	Gas	Mcf	Water	Bb	ols.	Gas-Oil Ratio	Gravity		
Vented	OSITION OF GAS	d on Lease	Open Hole		MPLET Dually (Submit A	Comp. Com	nmingled nit ACO-4)	PRODUCTIC Top	DN INTERVAL: Bottom		
Shots Per	Perforation	Perforation	Bridge Plug	Bridge Plug		Acid,	Fracture, Sho	t, Cementing Squeeze	Record		
Foot	Тор	Bottom	Туре	Set At			(Amount and	d Kind of Material Used)			
					+						

Packer At:

TUBING RECORD:

Size:

Set At:

Form	ACO1 - Well Completion
Operator	H & D Exploration LLC
Well Name	BIEBERLE #3
Doc ID	1369904

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.250	8.625	23	770	Common		60/40 Poz 4%cc 2%gel
Production	7.875	5.500	15.5	3390	Common	180	10% salt 5%Gilsoni te

Conservation Division 266 N. Main St., Ste. 220 Wichita, KS 67202-1513



Phone: 316-337-6200 Fax: 316-337-6211 http://kcc.ks.gov/

Pat Apple, Chairman Shari Feist Albrecht, Commissioner Jay Scott Emler, Commissioner Sam Brownback, Governor

October 16, 2017

Alan Hoffman H & D Exploration LLC 165 WEST 1ST PO BOX 387 HOISINGTON, KS 67544

Re: ACO-1 API 15-009-26169-00-00 BIEBERLE #3 SE/4 Sec.11-16S-12W Barton County, Kansas

Dear Alan Hoffman:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 5/5/2017 and the ACO-1 was received on October 16, 2017 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department

MORNING DRILL For: H&D Exploration	ING REPOR	r	8.4				1995	100	SOL	THWIND DI	RILLING, INC. RIG No. 9
Location Section County	e: Bieberle #3 e: 2250" FSL & 227 e: 11-165-12W f: Barton l: 15-009-26169-00			EsL TD: Conductor Pipe:	1923' 3400' N/A Ran 18 joints o	of new 23#, 8 5/8" ht circulated, by Qu	casing, Tally @ 751 jallity (Ticket #054)	9', Set @ 770', ue , plug down @ 1	So and 350 secks of 6	Rig No. 9 (Dogh puthwind Orliling	Pteff) 820-566-7004 rouse) 820-566-7014 Office 620-564-3800
Shathund Dulling Inc.				Production info:	Ran 83 joints o sait, 5% Gilsor on 05 14.17	of new 15 5#, 5 1/2 nite, 500 gel mud a	" casing, Tally @ 3 lear-48, cemented	381', Set @ 3396 by Quality (Tick)', used 180 secks et#181), job comj	of Common, 10% olete @ 3:15 pm	
white a	Contraction of the second			tary Total Depth: Log Total Depth;					Geologis	it: Jim Musgrove	
7:00 A.M. Depth:	3405					7:00	A.M. Curren	t Operation:		The other states and the base of the local division of the local d	
Spud Date & Time: 5/5/17 @ 4:45 pm	05/05/17 Day 1	05/06/17 Day 2	05/07/17 Day 3	05/08/17 Day 4	05/09/17	05/10/17	05/11/17	05/12/17	05/13/17	05/14/17	Total
Total Depth (7:00am)	0	770	1240	1900	Day 5 2333	Day 6 2581	Day 7 2940	0 ay 8 3230	Day 9 3347	Day 10 3405	Total
Daily Programs FL Per Hr.	770 75 12	470 64 83	660 44 75	433 30.93	248 41 33	359 29.31	290 23.67	117	58 23.20	0	3405 39.36
Current Operation (7:00am) Formation	Rig Up	Dummy Trip	Drilling	Dritting	Repairs	Drilling	TIH wiTool - DST JI1	Drifting	freeing out OBT #2	Laydown Pipe	38.36
Fuel Used (Fuel Chart)	132,47	Clay/Sand 295.50	Ume/Sand 310.15	Shale 340 47	Lime/Shale 176 79	Lime/Shale 298 59	Topeka 178.92	LKC	LKC	Arbuckle	0257 73
Survey (degree & depth)		1" @ 770'	UTU IS	540 41	17679	1 1/4" @ 2940'		406.33	110 93	107 60	2357,73
Mud Cost	\$0.00	\$303.99	60.00	64 407 74	61 (60 m)	0.004.00					
Wolght (# / Gai)	141	9300.33	\$0.00	\$1,487.74	\$1,150.22 9.6	\$391.68	\$1,062.75 9,0	\$914.84 8.9	\$945.90 9.1	\$0.00	\$6,257.12
Vis (Funnel) Water Loss (cc)	3	1				47	55 8.8	50 12.0	50 13.6	100	-
Bit #1	1	40									
Bit Make / Type Bit Size	JZ RR 12 1/4	-							-		
Bit Hours Bit #2	10 25										10.25
Bit Make / Type	L	Reed H24A	Reed H24A	Reed H24A					T	r	
Bit Size Bit Hours		7 7/8	7 7/8	7 7/8							
Bit #3			1475	14 00					1	1	36.00
Bit Make / Type Bit Size					JZ RR 7 7/8	JZ RR 7 7/8					
Bit Hours					6.00	12 25					18,25
Bit #4 Bit Make / Type	Í.		_			1	Reed 552P RR	Reed S52P RR	Reed S52P R	Reed S52P RR	
Bit Size Bit Hours							7 7/8	7 7/8	7 7/8	7 7/8	
Bit Cumulative Hours	10.25	7.25	14.75	14.00	6.00	12.25	12 25	7.25	2.50	0.00	22.00
Weight on Bit (WOB)	20,000	22,000	25,000	25,000	28.000	28,000	30,000	30,000	30,000	0.00	00.50
RPM Pump Pressure	120	85 750	90 650	85	80 875	80 700	60 785	80 725	80 750	545	
Drilling (Rotating) Hours	10.25	7.25	14.75	14.00	6.00	12.25	12.25	7,25	2.50	0.00	86.50
			<u>x 1977</u>		vork Hrs. (Ope		14.40	1,200	1.00	0.00	60.50
Rat Hole (> 75 Hrs) Wait on Cement											0.00
Weather											0.00
Short Trip	0 25	2.00						1.25	1		1.25
Circulate	0.25	0.50			-	3 00 2 25	5 25 1 75	7 00	9.00	1	26.50
Tool Testing			_			0 25	0 75	1.00	1 00		3.00
Clean Floor after DST							2 50	2 00	1 50		6.00
Wait on Orders Wait on Tester						2.05			1.25		1.25
Logging						3 00			4 50		3.00
Nipple Down / Jet Cellar					_				0.50	1.50	1.50
Run Casing / Circ / Cement		2 75							0.50	2.50	5.25
Set Slips Lost Circulation (> 2 hrs)										0.50	D.50 D.00
Billable Hours	0.25	5 25	0.00	0.00	0,00	8.50	10.25	15,50	20.75	8,50	69.00
Rig Up / Tear Down	9.25			Non-Billa	able Hours (So	uthwind's time)	1		1	7 50	40.74
Nait on Cement (NB)		8.00								7.50	16.75 8.00
Dnil Rat Hole (< 75 hm) Drill Mouse Hole	0.50										0.50
Drill Plug		0 50									0.50
Circulate / Trip (Surface) Replacing Dri I Collars	0.50	1.00			17.00			_			1.50
Rig Repair	240		5 25	3.25							8.50
Connections Jel/Displace	2.50	1 25	3.00	2 25	0.75	1.50	1.00	0.50	0.50		13.25
Surveys Rig Check		0.25				0.25			0.25		0.75
	0 25	0,25	0.50	3.00	0.25	0.50	0 25	0 50			3.50
rip Time (NB - repairs)							0.25	0.25			0.50
Trip Time (NB - repairs) Pil Mud					-						0.00
Frip Time (NB - repairs) Pil Mud Lost Circulation (< 2 hrs) Lay Down Kelly / MH & RH					40.00	3,25	1.50	1.25	0.75	7.50	76.50
frip Time (NB - repairs) Pil Mud .ost Circulation (< 2 hrs)	13,50	11.50	9.25	10.00	18.00	27.00.01	24.00	15.00	23.070		of the local division of the local divisione
rip Time (NB - repairs) hl Mud lost Circulation (< 2 hrs) .ay Down Kelly / MH & RH kon-Billable Hrs. cotage Cost	\$ 7,700.00	\$ 4,700.00	\$ 6,600,00	\$ 4,330.00	\$ 2,480.00	\$ 3,590.00				16.05 \$	\$ 33,960.00
rip Time (NB - repairs) hl Mud lost Circulation (< 2 hrs) ay Down Kelly / MH & RH kon-Billable Hrs; cotage Cost baywork Cost	\$ 7,700.00 \$ 62.50	\$ 4,700.00 \$ 1,312.50	5 6,600,00 5 -	\$ 4,330.00 \$	\$ 2.480.00 \$	\$ 3,590.00 \$ 2,125.00	\$ 2,900.00 \$ 2,562.50	\$ 1,170.00 \$ 3,875.00	\$ 490.00 \$ 5,187.50	\$ \$ 2,125.00	\$ 17,250.00
rip Time (NB - repairs) hl Mud lost Circulation (< 2 hrs) .ay Down Kelly / MH & RH kon-Billable Hrs. cotage Cost	\$ 7,700.00 \$ 62.50 \$ 7,762.50	\$ 4,700.00 \$ 1,312.50 \$ 6,012.50	\$ 6,600,00 \$ \$ 6,600.00	\$ 4,330.00 \$ - \$ 4,330.00	\$ 2.480.00 \$ - \$ 2.480.00	\$ 3,590.00 \$ 2,125.00 \$ 5,715.00	\$ 2,900.00 \$ 2,562.50	\$ 1,170.00	\$ 490.00 \$ 5,187.50	\$ \$ 2,125.00	
riip Time (NB - repairs) Al Mud Dis Curculation (< 2 hrs) ay Down Kally / MH & RH Aco-Billiable Hrs. Coolage Cost Daywork Cost Combined Est. Cost* Press not Curs the La estimate RST #1 Info - Foolage Interval;	\$ 7,700.00 \$ 62.50 \$ 7,762.50	\$ 4,700.00 \$ 1,312.50 \$ 6,012.50 free: "Topeka"	\$ 6,600,00 \$ \$ 6,600.00	\$ 4,330.00 \$ - \$ 4,330.00	\$ 2.480.00 \$ \$ 2.480.00 DST #2 Info -	\$ 3,590.00 \$ 2,125.00 \$ 5,715.00	\$ 2,900.00 \$ 2,562.50 \$ 5,462.50 3198' - 3270'	\$ 1,170.00 \$ 3,875.00	\$ 490.00 \$ 5,187.50	\$ \$ 2,125.00	\$ 17,250.00
rip Time (NB - repairs) hi Mud sos Circulation (< 2 hrs) ay Down Kelly / MH & RH kon-Billable Hrs. ootage Cost baywork Cost combined Est. Cost ⁴ "Insee note that this is estimated (ST #1 Info - Footage Interval: Recovery: ST #3 Info - Footage (nterval: Recovery:	\$ 7,700.00 \$ 62,50 \$ 7,762.50 \$ 7,762.50 \$ 7,762.50 \$ 7,762.50 \$ 7,762.50 \$ 7,762.50 \$ 7,762.50 \$ 7,762.50 \$ 7,762.50 \$ 7,700.00 \$ 7,700.00 \$ 7,700.00 \$ 7,700.00 \$ 7,700.00 \$ 7,700.00 \$ 7,700.00 \$ 7,700.00 \$ 7,762.50 \$ 7	\$ 4,700.00 \$ 1,312.50 \$ 6,012.50 \$ 6,012.50 "Topeka" "Ojil Spots "Arbuckle"	\$ 6,600,00 \$ \$ 6,600.00	\$ 4,330.00 \$ 5 \$ 4,330.00	\$ 2,480,00 \$ 5 \$ 2,480,00 DST #2 Info -	\$ 3,590.00 \$ 2,125.00 \$ 5,715.00 \$ 5,715.00 * Demut empt *	\$ 2,900.00 \$ 2,562.50 \$ 5,462.50 3198' - 3270'	\$ 1,170.00 \$ 3,875.00 \$ 5,045.00	\$ 490.00 \$ 5,187.50	\$ \$ 2,125.00	\$ 17,250.00

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025 161 Home Office P.O. Box 32 Russell, KS 67665 No. Cell 785-324-1041 Sec. Twp. Range State County On Location Finish 5-14-17 3 Boutor ISPM Date 2 < Wis 1/2 Beberle 5 Location Du 2 Well No. Lease Owner To Quality Oilwell Cementing, Inc. Southwind 9 Contractor You are hereby requested to rent cementing equipment and furnish Longstein cementer and helper to assist owner or contractor to do work as listed. Type Job 177 Charge 3405 Hole Size T.D To Csa. 15 1/4 53" Depth Street Depth Tbg. Size City State Tool Depth The above was done to satisfaction and supervision of owner agent or contractor. 18,22 18 22 5% Gilsonite Cement Amount Ordered Com 10% Salt Cement Left in Csq. Shoe Joint ear 48 RIS Soo mud Meas Line Displace EQUIPMENT P £ Common Cementer -Tim No. 8 Pumptrk Poz. Mix Driver -No. 3 Bulktrk Gel. Driver \ A Driver No. D.U. Bulktrk Driver Calcium **JOB SERVICES & REMARKS** Hulls Remarks: Salt Rat Hole Flowseal Mouse Hole Kol-Seal 20 5 Centralizers Mud CLR 48 500 g9 Baskets CFL-117 or CD110 CAF 38 D/V or Port Collar bottom Sand DiDe cm Close Shind Joo Handling Mileage 27 SX 189 asing FLOAT EQUIPMENT 20 SY 0 1.1.10 6 Guide Shoe Diam 25 3 420 Centralizer Ś DINA Dace 2 Baskets AFU Inserts 200 18 Stor Float Shoe Latch Down 1001 Pumptrk Charge Mileage Tax Discount X Signa **Total Charge**



NOTES

Company: <u>H&D Exploration</u>, LLC.

Lease: <u>Bieberle #3</u>

Location: <u>SE-NW-NW-SE (2250' FSL & 2277' FEL)</u> Sec: <u>11</u> Twsp: <u>16S</u> Rge: <u>12W</u> County: <u>Barton</u> State: <u>Kansas</u> Field: <u>Kraft-Prusa</u>

KB: <u>1923'</u> GL: <u>1914'</u>

 Contractor:
 Southwind Drilling, Inc. (Rig #9)

 Spud:
 05/05/2017
 Comp:
 05/14/2017

 RTD:
 3405'
 LTD:
 3405'

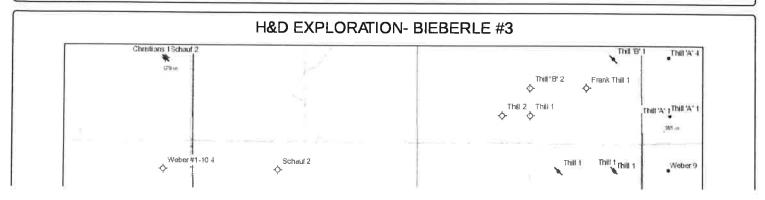
 Mud Up:
 2700'
 Type Mud:
 Chemical

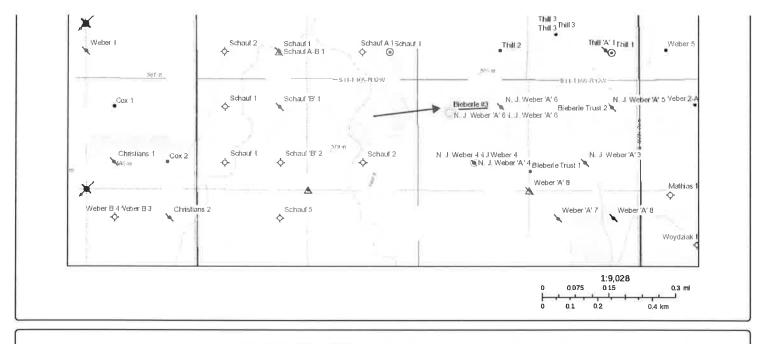
 API #:
 15-009-26169-00-00
 Comp:
 Comp:

Samples Saved From: <u>2800' to RTD</u> Drilling Time Kept From: <u>2800' to RTD</u> Samples Examined From: <u>2800' to RTD</u> Geological Supervision from: <u>2800' to RTD</u> Geologist on Well: <u>Wyatt Urban</u>

Surface Casing: <u>8 5/8"@ 780'</u> Production Casing: <u>5 1/2" @</u> 3402'

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

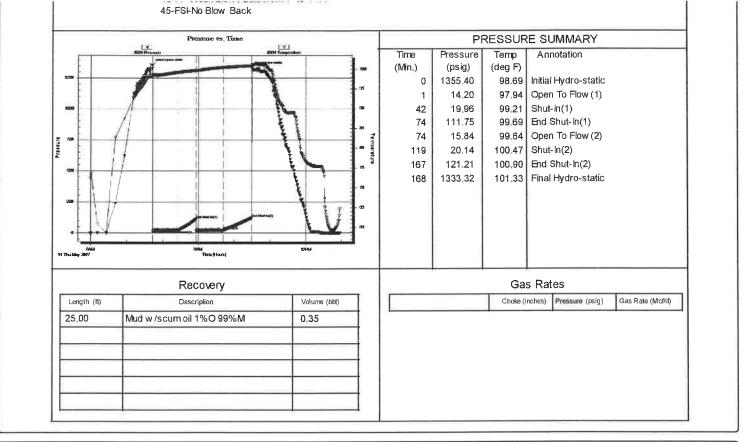


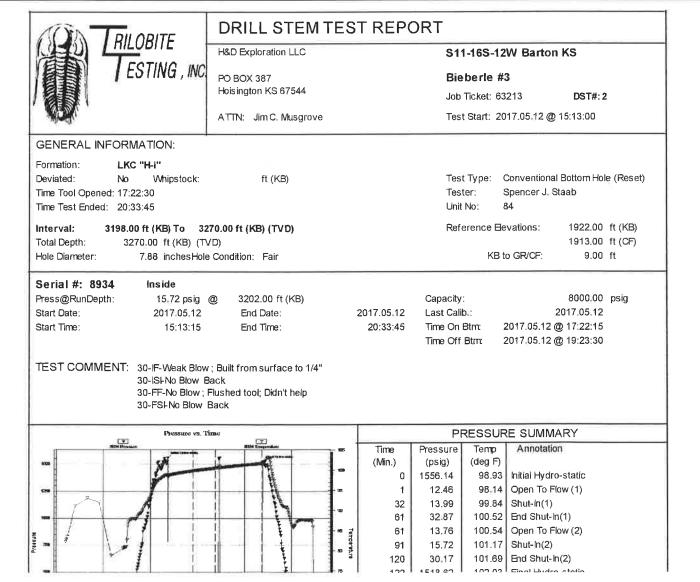


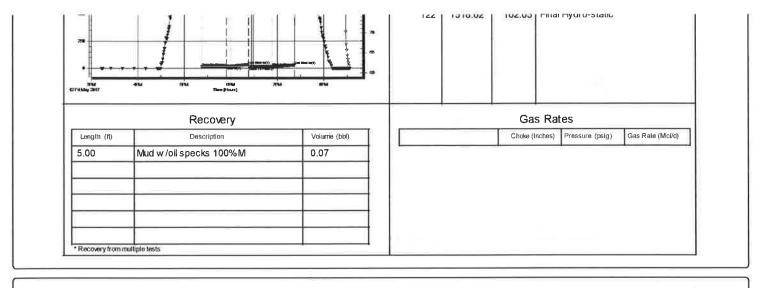
H&D EXPLORATION WELL COMPARISON SHEET

		DRILLING	LILL			COMPARIE	ON WELL			COMPARTS	SO NO DI DATA		
		H&D-Bieb	erle #3		REI	F OEG- Bi	aberle #	2	SCAVENGER OGG-N.J. WEBBER NE-NW-SE				
	1	SE-NW-NW-	SE			S2-NW-NE	-SE						
		11-16S-12	W			11-165-1	2W			11-16S-1	L2W	2₩	
		-				- 1	Struct	ural			Struct	ural	
	1922	KB			1907	KB	Relatio	nship	1917	KB	Relatio	nship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log	
Heebner	2970	-1048	2969	-1047	2948	-1041	-7	-6	2961	-1044	-4	-3	
Toronto	2984	-1062	2984	-1062	2965	-1058	-4	-4					
Douglas	2997	-1075	3001	-1079	2977	-1070	-5	-9					
Brown Lime	3058	-1136	3057	-1135	3040	-1133	-3	-2					
Lansing	3070	-1148	3073	-1151	3057	-1150	2	-1	3068	-1151	3	0	
BKC	3326	-1404	3325	-1403	3313	-1406	2	3	_				
Arbuckle	3336	-1414	3334	-1412	3319	-1412	-2	0	3331	-1414	0	2	
RTD	3405	-1483	3405	-1483	3359	-1452	-31	-31	3337	-1420	-63	-63	
LTD	3405	-1483	3405	-1483	3362	-1455	-28	-28	3335	-1418	-65	-65	

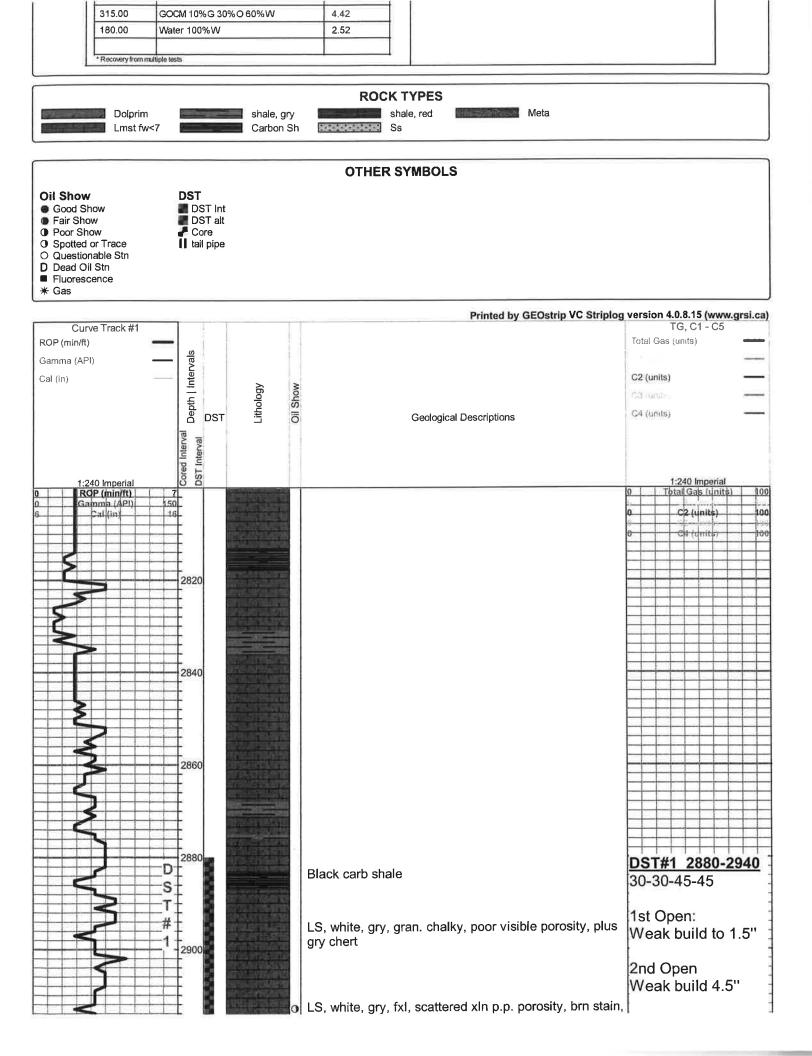
	H&D Exploration LLC		S11-16S	-12W Barto	n,KS	
ESTING , INC	PO Box 387 Hoisington KS 67544		Bieberle Job Ticket		DST#: 1	
	ATTN: Jim C. Musgrove			2017.05.11 @		
GENERAL INFORMATION:						
Formation: Topeka						
Deviated: No Whipstock: Time Tool Opened: 07:43:30 Time Test Ended: 12:57:45	ft (KB)		Test Type: Tester: Unit No:	: Convention Spencer J. 84		e (Initial)
Interval: 2880.00 ft (KB) To 29	40.00 ft (KB) (TVD)		Reference	e Elevations:	1922.00	ft (KB)
Total Depth: 2940.00 ft (KB) (T					1913.00	• •
Hole Diameter: 7.88 inchesHole	Condition: Fair		ŀ	(B to GR/CF:	9.00	ft
Serial #: 8934 Inside						
Press@RunDepth: 20.14 psig	@ 2887.00 ft (KB)		Capacity:		8000.00	psig
Start Date: 2017.05.11	End Date:	2017.05.11	Last Calib.:		2017.05.11	
	End Time:	12:57:45	Time On Btm:	2017.05,11	@ 07:43:15	
Start Time: 05:59:15			Time Off Btm:	2017.05.11	@ 10:30:30	
Start Time: 05:59:15						

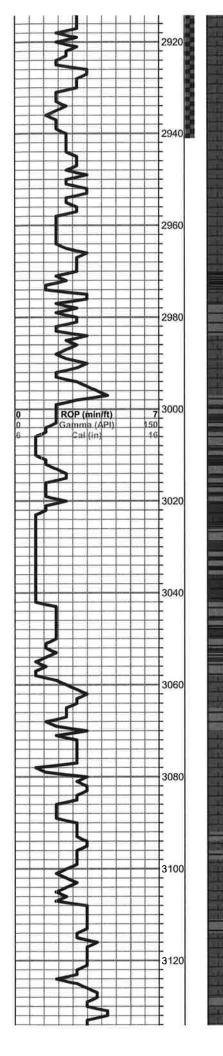


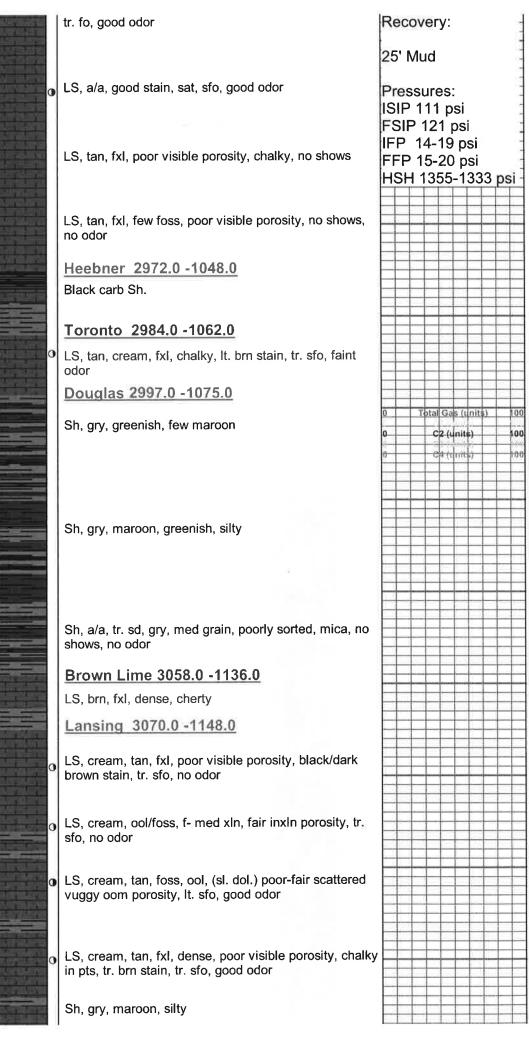


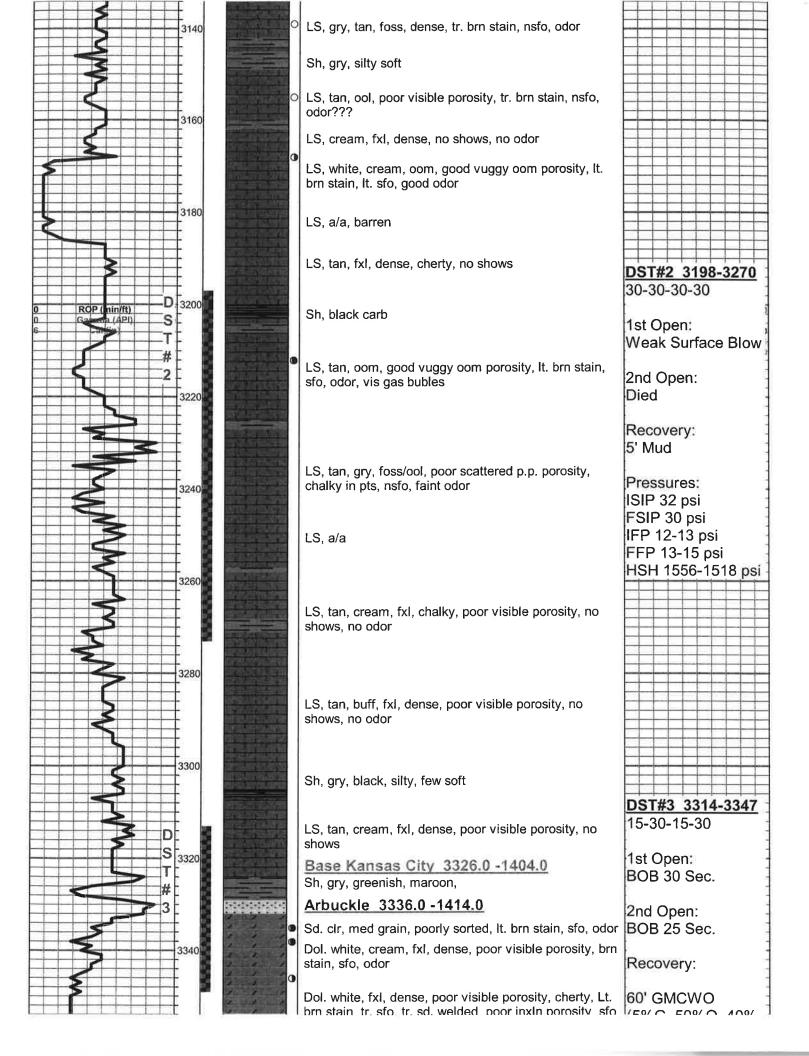


RILOBITE	H&D Exploration LLC		S11	16S-12	W Barton	KS	
ESTING , INC.	PO BOX 387 Hoisington KS 67544			berle #3 īcket: 633		DST#::	3
	ATTN: Jim C, Musgrove		Test	Start: 20	17.05.13 @ (06:37:00	
GENERAL INFORMATION:							
Formation: Arbuckle/Gorham 3 Deviated: No Whipstock: Time Tool Opened: 08:40:45 Time Test Ended: 13:05:00	Ss ft (KB)		Test Teste Unit N	er: S	Conventional Spencer J. Sta 14		le (Reset
Interval: 3314.00 ft (KB) To 33			Refe	rence ⊟e	vations:		ft (KB)
Total Depth:3347.00 ft (KB) (The Hole Diameter:7,88 inches Hole	e Condition: Fair			KB to	GR/CF:	1913.00 9.00	
Press@RunDepth: 806.52 psig Start Date: 2017.05.13 Start Time: 06:37:15 TEST COMMENT: 15-IF-BOB in 30	End Date: End Time: seconds	2017.05.13 13:05:00	Capacity: Last Calib Time On B Time Off E	tm: 2	2 2017.05.13 @ 2017.05.13 @		
15-FF-BOB in 25							
15-FF-BOB in 25 30-FSI-Fair Blow Prosence va.1	seconds ;Built from surface to 2" Trans		PR	ESSUR	E SUMMA	RY	
15-FF-BOB in 25 30-FSI-Fair Blow	seconds ; Built from surface to 2"	0 1 17 46 46 61 90 91	Pressure	Temp (deg F) 99.43 98.84 115.28 113.58 113.52	Annotation Initial Hydro- Open To Flo Shut-In(1) End Shut-In(Open To Flo Shut-In(2)	-static ow (1) (1) ow (2) (2)	
15-FF-BOB in 25 30-FSI-Fair Blow	seconds ; Built from surface to 2"	(Min.) 0 1 17 46 46 61 90 91	Pressure (psig) 1662.75 163.92 569.58 1000.58 574.69 806.52 1000.05	Temp (deg F) 99.43 98.84 115.28 113.58 113.52 115.05 114.22 114.51	Annotation Initial Hydro- Open To Flo Shut-In(1) End Shut-In(1) Open To Flo Shut-In(2) End Shut-In(2) Final Hydro-	-static ow (1) (1) ow (2) (2)	
15-FF-BOB in 25 30-FSI-Fair Blow	seconds ; Built from surface to 2"	(Min.) 0 1 17 46 46 61 90 91	Pressure (psig) 1662.75 163.92 569.58 1000.58 574.69 806.52 1000.05	Temp (deg F) 99.43 98.84 115.28 113.58 113.52 115.05 114.22 114.51	Annotation Initial Hydro- Open To Flo Shut-In(1) End Shut-In(2) End Shut-In(2) End Shut-In(2) Final Hydro-	-static ow (1) (1) ow (2) (2) -static	Sas Rale (Mc
15-FF-BOB in 25 30-FSI-Fair Blow	seconds ; Built from surface to 2"	(Min.) 0 1 17 46 46 61 90 91	Pressure (psig) 1662.75 163.92 569.58 1000.58 574.69 806.52 1000.05	Temp (deg F) 99.43 98.84 115.28 113.58 113.52 115.05 114.22 114.51	Annotation Initial Hydro- Open To Flo Shut-In(1) End Shut-In(2) End Shut-In(2) End Shut-In(2) Final Hydro-	-static ow (1) (1) ow (2) (2) -static	Gas Rale (Mc









	Į	3360	odor	(5%G, 50%O, 40% W, 5%M)
	\$		Dol. white, fxl, dense, poor visible porosity, nsfo, tr. sd. a/a, strong odor	1030' WMCGO (30%G, 40%O, 20%W, 10%M)
	2	3380	Dol. white, tan, suc., med xln, good inxln porosity, tr. brn stain, nsfo, odor	315' OMCW (10%O, 80%W, 10%M)
000	FCP (min/ft) Gattma (/C) Call (m)	73400	Dol. white, cream, fxl, dense, few cherty, poor visible porosity, no shows Gran, clr, tr. pyrite, biotite, feldspar, nsfo	315' GOCM (10%G, 30%O, 60%W,
			RTD 3405.0 -1483.0	185' Water
		3420	<u>LTD 3405.0 -1483.0</u>	Pressures: ISIP 1000 psi FSIP 1000 psi IFP 163-569 psi FFP 574-806 psi
		3440		HSH 1662-1543 psi

1.22	RILOBITE	H&D Exploration LLC		S11-	-165-12	W Bartor	n KS
ESTING , INC		PO BOX 387		Bieł	berle #3	3	
	57	Hoisington KS 67544			Ticket: 632		DST#:3
		ATTN: Jim C. Musgrove				17.05.13 @	
GENERAL	INFORMATION:						
Formation:	Arbuckle/Gorham Ss						
	No Whipstock: ened: 08:40:45 ded: 13:05:00	ft (KB)		Test Teste Unit N	er: S	Conventiona Spencer J. S 34	al Bottom Hole (Reset) Staab
nterval: Fotal Depth:	3314.00 ft (KB) To 3347 3347.00 ft (KB) (TVD)			Refer	rence Eev	vations:	1922.00 ft (KB) 1913.00 ft (CF)
-lole Diamete	r: 7.88 inchesHole C	ondition: Fair			KB to	GR/CF:	9.00 ft
Serial #:	8934 Outside						
ress@Runt			0047.07.15	Capacity:			8000.00 psig
Start Date: Start Time:	2017.05.13 06:37:15	End Date: End Time:	2017.05.13 13:05:00	Last Calib. Time On B			2017.05.13 @ 08:40:30
Mart Inne.	00.37.15		13.03.00	Time Off B			@ 10:10:45
5 33	30-ISI-Fair Blow ; Bu 15-FF-BOB in 25 se 30-FSI-Fair Blow ; B Pressure vs. Time	Built from surface to 2"	Time (Min.) 0	Pressure (psig) 1662.75	Temp (deg F) 99.43	E SUMM Annotatic Initial Hydro	o-static
773 · · · · · · · · · · · · · · · · · ·	15-FF-BOB in 25 se 30-FSI-Fair Blow ; B Pressure vs. Time	Built from surface to 2"	(Min.)	Pressure (psig)	Temp (deg F) 99.43 98.84 115.28 113.58 113.52 115.05 114.22	Annotatic Initial Hydro Open To F Shut-In(1) End Shut-Ii Open To F Shut-In(2)	o-static low (1) n(1) low (2) n(2)
733 733 233 233 233 233 234 234 234 234 235 235 235 235 235 235 235 235 235 235	15-FF-BOB in 25 se 30-FSI-Fair Blow ; B Pressure vs. Time	Built from surface to 2"	(Min.) 0 1 17 17 46 61 61 90	Pressure (psig) 1662.75 163.92 569.58 1000.58 574.69 806.52 1000.05	Temp (deg F) 99.43 98.84 115.28 113.58 113.52 115.05 114.22	Annotatic Initial Hydr Open To F Shut-In(1) End Shut-I Shut-In(2) End Shut-I	o-static low (1) n(1) low (2) n(2)
259 779 580 590 590 590 590 590 590 590 590 590 59	15-FF-BOB in 25 se 30-FSI-Fair Blow ; B	Built from surface to 2"	(Min.) 0 1 17 17 46 61 61 90	Pressure (psig) 1662.75 163.92 569.58 1000.58 574.69 806.52 1000.05	Temp (deg F) 99.43 98.84 115.28 113.58 113.52 115.05 114.22 114.51	Annotatic Initial Hydr Open To F Shut-In(1) End Shut-I Shut-In(2) End Shut-I	o-static low (1) n(1) low (2) n(2)
5250 775 955 956 May 2917 Length (ft)	15-FF-BOB in 25 se 30-FSI-Fair Blow ; B	Built from surface to 2"	(Min.) 0 1 17 17 46 61 61 90	Pressure (psig) 1662.75 163.92 569.58 1000.58 574.69 806.52 1000.05	Temp (deg F) 99.43 98.84 115.28 113.58 113.52 115.05 114.22 114.51	Annotatio Open To F Shut-In(1) End Shut-I Open To F Shut-In(2) End Shut-In Final Hydro	o-static low (1) n(1) low (2) n(2)
zza zza zza zza zza zza zza v v t t t t t t t t t t t t t	15-FF-BOB in 25 se 30-FSI-Fair Blow ; B	Built from surface to 2"	(Min.) 0 1 17 17 46 61 61 90	Pressure (psig) 1662.75 163.92 569.58 1000.58 574.69 806.52 1000.05	Temp (deg F) 99.43 98.84 115.28 113.58 113.52 115.05 114.22 114.51 Gas	Annotatio Open To F Shut-In(1) End Shut-I Open To F Shut-In(2) End Shut-In Final Hydro	o-static ilow (1) n(1) ilow (2) n(2) o-static
530 739 930 930 930 930 930 930 930 930 930 9	15-FF-BOB in 25 se 30-FSI-Fair Blow ; B Pressure vs. Time	Built from surface to 2"	(Min.) 0 1 17 17 46 61 61 90	Pressure (psig) 1662.75 163.92 569.58 1000.58 574.69 806.52 1000.05	Temp (deg F) 99.43 98.84 115.28 113.58 113.52 115.05 114.22 114.51 Gas	Annotatio Open To F Shut-In(1) End Shut-I Open To F Shut-In(2) End Shut-In Final Hydro	o-static ilow (1) n(1) ilow (2) n(2) o-static
5259 770 770 770 770 770 770 770 770 770 77	15-FF-BOB in 25 se 30-FSI-Fair Blow ; B	Built from surface to 2"	(Min.) 0 1 17 17 46 61 61 90	Pressure (psig) 1662.75 163.92 569.58 1000.58 574.69 806.52 1000.05	Temp (deg F) 99.43 98.84 115.28 113.58 113.52 115.05 114.22 114.51 Gas	Annotatio Open To F Shut-In(1) End Shut-I Open To F Shut-In(2) End Shut-In Final Hydro	o-static ilow (1) n(1) ilow (2) n(2) o-static
530 739 930 930 930 930 930 930 930 930 930 9	15-FF-BOB in 25 se 30-FSI-Fair Blow ; B Pressure vs. Time	Built from surface to 2"	(Min.) 0 1 17 17 46 61 61 90	Pressure (psig) 1662.75 163.92 569.58 1000.58 574.69 806.52 1000.05	Temp (deg F) 99.43 98.84 115.28 113.58 113.52 115.05 114.22 114.51 Gas	Annotatio Open To F Shut-In(1) End Shut-I Open To F Shut-In(2) End Shut-In Final Hydro	o-static ilow (1) n(1) ilow (2) n(2) o-static

UEU	RILOBITE	H&D Exploration LLC		S11-16	S-12W Barto	on KS
	ESTING , INC	PO BOX 387		Piehe	1	
	1	PO BOX 387 Hoisington KS 67544		Bieber		0074 0
CREW'S N					et: 63214	DST#:3
		ATTN: Jim C. Musgrove		Test Sta	rt: 2017.05.13	@ 06:37:00
GENERAL	INFORMATION:					
Formation:	Arbuckle/Gorham S					
Deviated: Timo Tool Or	No Whipstock: bened: 08:40:45	ft (KB)		Test Typ Tester:	e: Convention Spencer J	nal Bottom Hole (Reset)
	ided: 13:05:00			Unit No:	84	. Sladu
nterval:	3314.00 ft (KB) To 334	47.00 ft (KB) (TVD)		Referen	ce Bevations:	1922.00 ft (KB)
Fotal Depth:	3347.00 ft (KB) (TV					1913.00 ft (CF)
lole Diamete	er: 7.88 inchesHole	Condition: Fair			KB to GR/CF:	9.00 ft
Serial #:						
ress@Runl		-	0047.05.40	Capacity:		8000.00 psig
Start Date: Start Time:	2017.05.13 06:37:15	End Date: End Time:	2017.05.13 13:05:00	Last Calib.: Time On Btm:		2017.05.13
Aut IIIIe.	00.07.10		13.03.00	Time Off Btm:		
1500			(Min.)	(psig) (de	eg F)	
E	PCDHesum	VCD Timperature	Time (Min.)		mp Annota	tion
1040						
1220		1 -				
770			Tem			
700		$\lambda $	Te mperature			
			(deg F)			
			Ű			
20		la I				
ΕV	1 1					
	-4 					
•		12PM				
-0	Time (Hours)				Gas Rates	
-0	Recovery				000 11000	
Length (ft)	Time (Haun) Recovery Description	Volume (bbl)		(ssure (psig) Gas Rate (Mcf/d
	Recovery			(ssure (psig) Gas Rate (Mcf/d
Length (ft)	Time (Haun) Recovery Description	N 50%O 0.84				ssure (psig) Gas Rate (Mct/c
Length (ft) 60.00	Time (Haun) Recovery Description GMCWO 5%G 5%M 40%\	N 50%O 0.84 %G 40%O 14.45				ssure (psig) Gas Rate (Mct/c
Length (ft) 60.00 1030.00	Thee(Haun) Recovery Description GMCWO 5%G 5%M 40%N WMCGO 20%W 10%M 30	N 50%O 0.84 %G 40%O 14.45 W 4.42				ssure (psig) Gas Rate (Mcf/c
Length (ft) 60.00 1030.00 315.00	Time (Fixed) Recovery Description GMCW0 5%G 5%M 40% \ WMCGO 20%W 10%M 30 OMCW 10%O 10%M 80%	N 50%O 0.84 %G 40%O 14.45 W 4.42				ssure (psig) Gas Rate (Mc <i>lid</i>

din-	RILOBITE	DRI	ILL STEM TEST F	EPORT	-	FI	
NUE V	THILUDITE	H&D E	xploration LLC		S11-16S-1	2W Barton KS	3
	TESTING , INC.	РО ВО	N 387		Bieberle #	#3	
	-	1 .000	gton KS 67544		Job Ticket: 6		DST#: 3
A BANK		ATTN:	Jim C. Musgrove			:017.05.13 @ 06:	
. excesso							
	ushion Information						
	Gel Chem		Cushion Type:		<i>c</i> ,	Oil API:	deg API
Mud Weight:	9.00 lb/gal		Cushion Length:		ft	Water Salinity:	18500 ppm
Viscosity: Water Loss:	41.00 sec/qt 13.59 in³		Cushion Volume:		bbl		
Resistivity:	ohm.m		Gas Cushion Type:		nata		
Salinity:	11000.00 ppm		Gas Cushion Pressure		psig		
Filter Cake:	inches						
Recovery I	nformation						
			Recovery Table				
	Leng	th	Description		Volume]	
	ft	60.00		W 0	bbl		
		60.00 030.00	GMCWO 5%G 5%M 40%W 50 WMCGO 20%W 10%M 30%G		0.842	-	
		315.00	OMCW 10%O 10%M 80%W	40%0	4.419	-	
		315.00	GOCM 10%G 30%O 60%W		4.419		
		180.00	Water 100%W		2.525		
	Total Length:	1900	.00 ft Total Volume:	26.653 bbl		4	
	Num Fluid Samp	oles: 0	Num Gas Bombs:	0	Serial #	:	
	Laboratory Nan		Laboratory Location	:			
	Recovery Com		[£] LCM				
		RV	N=.314@80degrees				

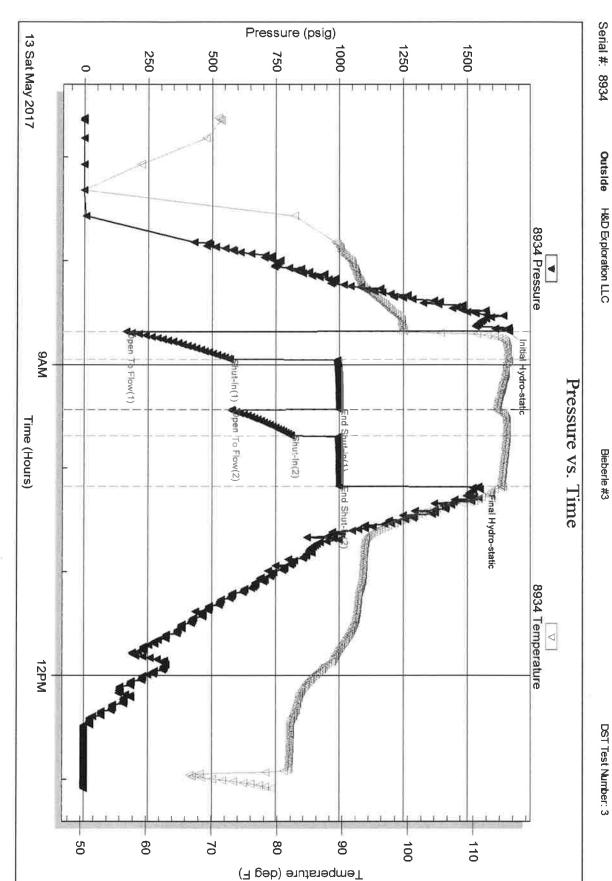
Ref. No: 63214

Trilobite Testing, Inc

Printed: 2017.05.13 @ 13:54:03

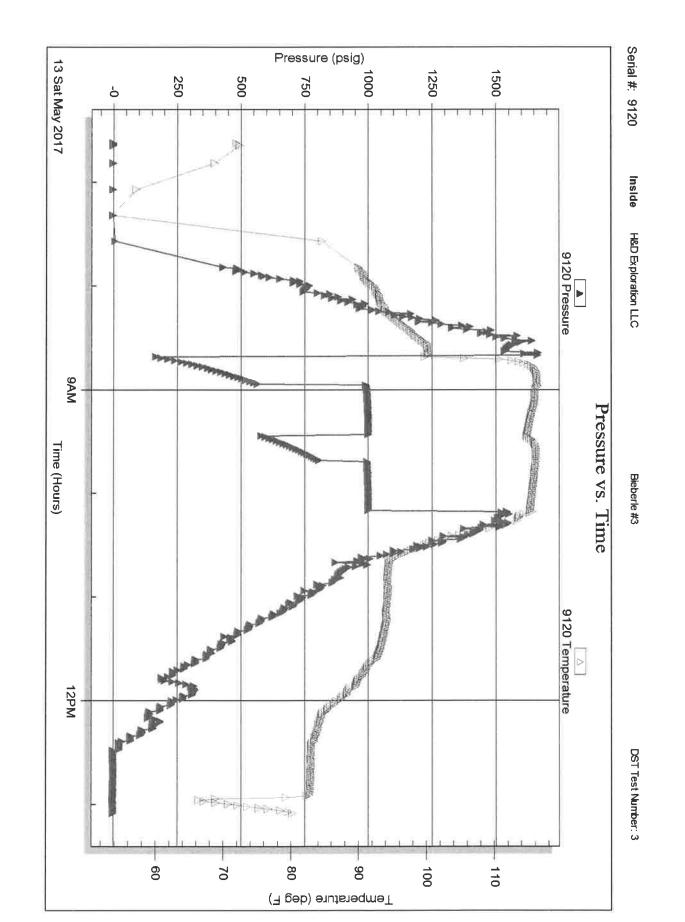
Printed: 2017.05.13 @ 13:54:03

Ref. No: 63214



Printed: 2017.05.13 @ 13:54:04

Ref. No: 63214



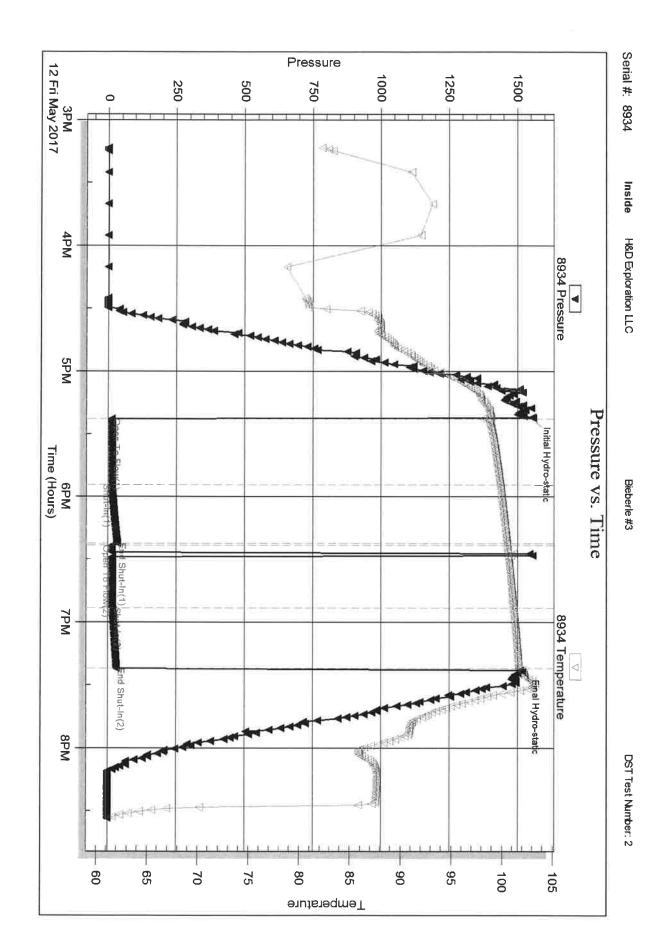
RILOBITE	DRILL STEM TES						
TESTING, INC			511	1-165-12	2W Bartor	n KS	
LOTING, INC.	PO BOX 387		Bie	berle #	3		
	Hoisington KS 67544		Job	Ticket: 63	3213	DST#:2	
	ATTN: Jim C. Musgrove		Test	t Start: 20	017.05.12 @	9 15:13:00	
GENERAL INFORMATION:							
Formation: LKC "H-I" Deviated: No Whinstock:			_				
Deviated: No Whipstock: Time Tool Opened: 17:22:30	ft (KB)		Test		Conventiona Spencer J. S	I Bottom Hol	e (Reset)
Time Test Ended: 20:33:45			Unit		Spencer J. 3 84	DIAAD	
Interval: 3198.00 ft (KB) To 32	70.00 ft (KB) (TVD)		Refe	erence Be	evations:	1922.00	ft (KB)
Total Depth: 3270.00 ft (KB) (TV						1913.00	ft (CF)
Hole Diameter: 7.88 inchesHole	Condition: Fair			KB	to GR/CF:	9.00	ft
Serial #: 8934 Inside		_					
Press@RunDepth: 15.72 psig (Start Date: 2017.05.12	- ,	0047.05.40	Capacity:			8000.00	psig
Start Date: 2017.05.12 Start Time: 15:13:15	End Date: End Time:	2017.05.12 20:33:45	Last Calit Time On I		2017.05.12 (2017.05.12	
10.10.10		20.00.40	Time Off		2017.05.12 (2017.05.12 (-	
30-FSI-No Blow E Pressure vs. Tr		Time	PF	RESSUF	RE SUMM		
		(Min.)	(psig)	(deg F)	Annotatio	n	
		0	1556.14	98.93			
		1 32	12.46 13.99	98.14 99.84		low (1)	
		61	32.87	100.52		ר)ר	
		61	13.76	100.54	Open To Fl		
70		61 91	15.72		Shut-In(2)		
500		120 122	30.17 1518.62	101.69 102.03	End Shut-Ir Final Hydro		
		122	1516.02	102.03	Final Hydro	o-static	
28							
37M 47M (FM (FM (FM (FM (FM (FM (FM (FM (FM (F	7FM 8FM						
					s Rates		
Recovery	Volume (bbl)			Choke (i	ncnes) Pressur	re (psig) Gas	Rale (Mcf/d
Length (ft) Description	0.07	2.4					
	0.07						
Length (ft) Description	0.07						
Length (ft) Description	0.07						
Length (ft) Description	0.07						
Length (ft) Description	0.07						

	RILOBITE	DRILL STEM TES					
主	RILOBITE ESTING , INC	H&D Exploration LLC		S11-	16S-12	W Barto	n KS
	ESTING, INC.	PO BOX 387 Hoisington KS 67544			erle #		
	_				icket: 63		DST#: 2
		ATTN: Jim C. Musgrove		Test S	Start: 20)17.05.12 @	y 15:13:00
GENERAL INF	FORMATION:						
Formation: Deviated: Time Tool Opener Time Test Ended:		ft (KB)		Test T Tester Unit N	r: 3	Convention Spencer J. 84	al Bottom Hole (Reset) Staab
nterval: 3	3198.00 ft (KB) To 32	270.00 ft (KB) (TVD)		Refer	ence Be	evations:	1922.00 ft (KB)
Total Depth: Hole Diameter:	3270.00 ft (KB) (T)	/D) e Condition: Fair			KBI	o GR/CF:	1913.00 ft (CF) 9.00 ft
							9.00 m
Serial #: 912 Press@RunDeptl		@ 3202.00 ft (KB)		Capacity:			8000.00 psig
Start Date:	2017.05.12	End Date:	2017.05.12	Last Calib.:	:		2017.05.12
Start Time:	15:13:15	End Time:	20:33:45	Time On Bt Time Off Bt			
a	Pressure vs. T	9CS Torpodus	Time		ESSUF Temp	RE SUMN	
1500 (230 770 Å-3-0-4			(Min.)		(deg F)	, inclu	
2289 2789 0 3784 2574 2574 2574 2574 2574 2574	STM (TMA Time (Taxa)	70 70 711 711 711					
229	Recovery				Ga	s Rates	
259 9 37M 2Fri May 2017 Length (ft)	Recovery Description	Volume (bbl)			Ga Choke (i		ure (psig) Gas Rate (Mcf/d)
229 37M Friihby 2877	Recovery	Volume (bbl)					ure (psig) Gas Rate (Mcf/d)
229 37M Friihby 2877	Recovery Description	Volume (bbl)					ure (psig) Gas Rate (Mcf/d)
229 37M Friihby 2877	Recovery Description	Volume (bbl)					ure (psig) Gas Rate (Mcf/d)
229 3 4 2 Fri May 2017	Recovery Description	Volume (bbl)					ure (psig) Gas Rate (Mcf/d)

(I) TRILOBITE	DRILL STEM TEST REPORT	-	FLUID SUMMARY
	H&D Exploration LLC	S11-16S-12W Barton	KS
ESTING , INC.		Bieberle #3	
	Hoisington KS 67544	Job Ticket: 63213	DST#: 2
	ATTN: Jim C. Musgrove	Test Start: 2017.05.12 @ 7	15:13:00
Mud and Cushion Information			
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal Viscosity: 42.00 sec/qt	Cushion Length: Cushion Volume:	ft Water Salinity	: ppm
Water Loss: 11.99 in ³	Gas Cushion Type:	DOI	
Resistivity: ohmm	Gas Cushion Pressure:	psig	
Salinity: 10000.00 ppm			
Filter Cake: inches			
Recovery Information	Recovery Table		
Lengt		Volume	
ft	5.00 Mud w /oil specks 100%M	0.070	
Total Length:	5.00 ft Total Volume: 0.070 bbl		
Num Fluid Sampl	les: 0 Num Gas Bombs: 0	Serial #:	
Laboratory Nam			
Recovery Comm	nents: 1&1/2# LCM		

Printed: 2017.05.13 @ 10:37:32

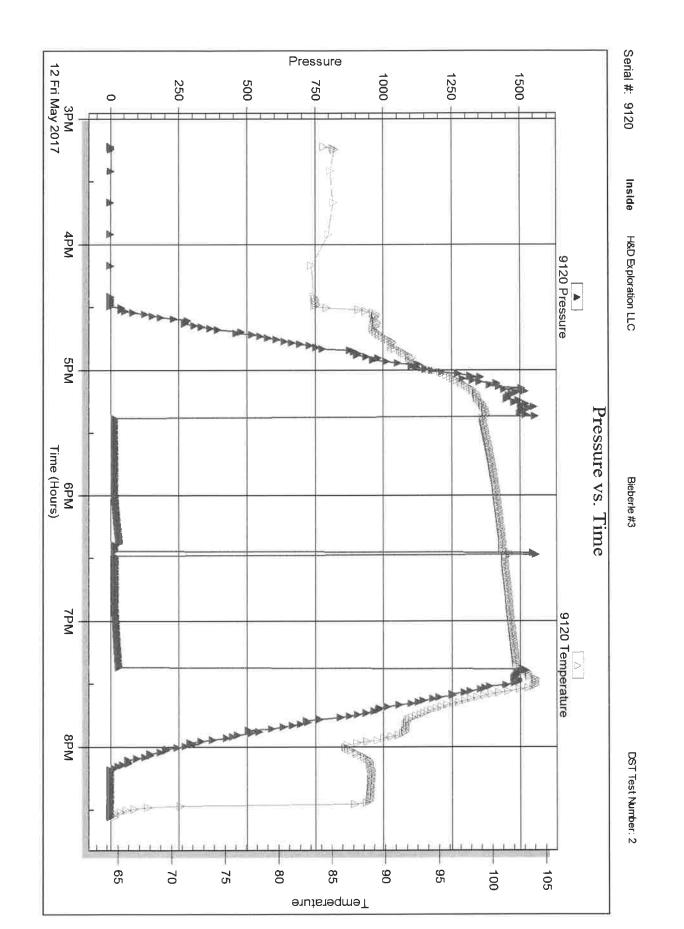
Ref. No: 63213



Printed: 2017.05.13 @ 10:37:32

Ref. No: 63213





RILOBITE	DRILL STEM TES			466		1/0
TESTING, INC.	H&D Exploration LLC		S11	-165-12	W Bartor	i KS
ESTING, INC.	PO BOX 387 Hoisington KS 67544		Bie	berle #	3	
	Hoisington KS 67544		Job	Ticket: 63	212	DST#:1
	ATTN: Jim C. Musgrove		Test	Start: 20	17.05.11 @	05:59:00
GENERAL INFORMATION:						
Formation: Topeka Deviated: No Whipstock:	ft (KB)		Tost	Type: (Conventiona	Bottom Hole (Initial)
Time Tool Opened: 07:43:30			Test		Spencer J. S	· · · ·
Time Test Ended: 12:57:45			Unit	No: 8	34	
Interval: 2880.00 ft (KB) To 29			Refe	erence Be	vations:	1922.00 ft (KB)
Total Depth: 2940.00 ft (KB) (TV				KB +	o GR/CF:	1913.00 ft (CF) 9.00 ft
Hole Diameter: 7.88 inchesHole					U GRUEF.	9.00 11
Serial #: 8934 Inside			0			8000 00 asia
Press@RunDepth: 20.14 psig (Start Date: 2017.05.11	@ 2887.00 ft (KB) End Date:	2017.05.11	Capacity: Last Calib			8000.00 psig 2017.05.11
Start Time: 05:59:15	End Time:	12:57:45	Time On I		2017.05.11 (
			Time Off	Btm: 2	2017.05.11 (@ 10:30:30
30-ISI-No Blow B 45-FF-Weak Blov 45-FSI-No Blow B	/; Built from 1" to 4&1/4"	1				
Pressure vs. Th	IIIe IIIN Tempenden				RE SUMM	
and the second		Time (Min.)	Pressure (psig)	Temp (deg F)	Annotatio	n
1270		0	1355.40	98.69		
	90	42	14.20 19.96	97.94 99.21	Open To F Shut-In(1)	low (1)
		74	111.75	99.69	End Shut-l	
		74	15.84	99.64	. ·	low (2)
			20.14 121.21	100.47	Shut-In(2) End Shut-I	n(2)
		168	1333.32	101.33		
200						
() Mail Data 11 Thu May 2017 Time (Hours)	CPM					
Recovery				Ga	s Rates	
Length (ft) Description	Volume (bbl)			Choke (i	nches) Pressu	ure (psig) Gas Rate (Mcf/d)
25.00 Mud w /scum oil 1%O 999	%M 0.35					
H		1				

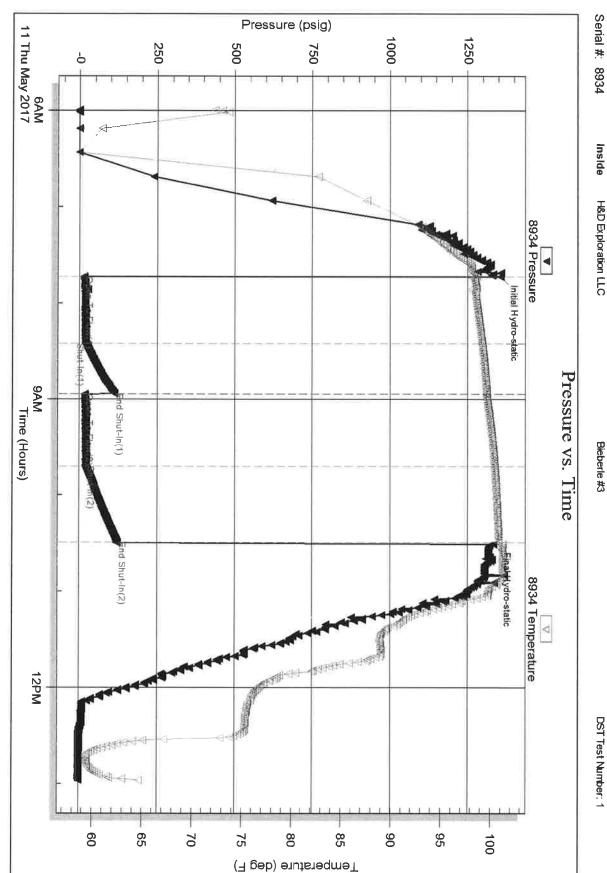
RILOBITE	DRILL STEM TES	TREP	ORT				
TESTING, INC	H&D Exploration LLC		S11	-16S-12	2W Barto	n KS	
ESTING, INC.	PO BOX 387 Hoisington KS 67544			berle #			
				Ficket: 6		DST#:1	
The Court	ATTN: Jim C. Musgrove		lest	Start: 20	017.05.11 @	05:59:00	
GENERAL INFORMATION:							
Formation: Topeka Deviated: No Whipstock: Time Tool Opened: 07:43:30 Time Test Ended: 12:57:45	ft (KB)		Test Teste Unit I	er:	Conventiona Spencer J. 3 84	al Bottom Hole Staab	e (Initial)
Interval: 2880.00 ft (KB) To 29 Total Depth: 2940.00 ft (KB) (TV Hole Diameter: 7.88 inchesHole	'D)		Refe		evations: to GR/CF:	1922.00 1913.00 9.00	ft (CF)
Serial #: 9120 Inside	9) 						-
Press@RunDepth: psig	@ 2887.00 ft (KB)		Capacity:			8000.00	psig
Start Date: 2017.05.11 Start Time: 05:59:15	End Date: End Time:	2017.05.11 12:57:45	Last Calib Time On E			2017.05.11	
		12.07.10	Time Off [
45-FSI-No Blow E	/ ; Built from 1" to 4&1/4" 3ack						
Pressure vs. Ti	III.C 1950 Tempenduar	Time	PR Pressure	Temp	RE SUMM		
The base of the second	Trimperetura (deg F)	(Min.)	(psig)	(deg F)			
Recovery				Ga	s Rates		
Length (ft) Description	Volume (bbl)			Choke (inches) Press	sure (psig) Ga	s Rate (Mcf/d)
25.00 Mud w /scum oil 1%O 999	6M 0.35						

ATE -		DRI	ILL STEM TEST REPOR	Т		FLUID SI	JMMARY
	RILOBITE	H&D Ex	xploration LLC	S11-16S-1	2W Barton I	KS	
	TESTING , INC.		X 387 gton KS 67544 Jim C. Musgrove	Bieberle Job Ticket: Test Start:		DST#: 1 5:59:00	
. ultandly							
	ushion Information				0140		
Mud Type: 0 Mud Weight:	Sel Chem 9.00 lb/gal		Cushion Type: Cushion Length:	ft	Oil API: Water Salinity:		deg API ppm
Viscosity:	40.00 sec/qt		Cushion Volume:	bbl			
Water Loss:	8.79 in ³ ohm.m		Gas Cushion Type: Gas Cushion Pressure:	psig			
Resistivity: Salinity:	8000.00 ppm		Gas cushion riessure.	psig			
Filter Cake:	inches						
Recovery I	nformation						
			Recovery Table	Volume			
	Leng ft		Description	bbl			
		25.00	Mud w /scum oil 1%O 99%M	0.35	1		
	Total Length:		5.00 ft Total Volume: 0.351 bb				
	Num Fluid Samp Laboratory Nan		Num Gas Bombs: 0 Laboratory Location:	Serial	# :		
	Recovery Com						
			Υ <u>κ</u>				

Printed: 2017.05.11 @ 15:50:39

Ref. No: 63212

Trilobite Testing, Inc



DST Test Number: 1



Ref. No: 63212

