### KOLAR Document ID: 1456970

Confiden	tiality Requeste	d:
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

		DECODIDEIO		
WELL	HISTORY	- DESCRIPTIO	N OF WELL	& LEASE

OPERATOR: License #	API No.:
Name:	Spot Description:
Address 1:	
Address 2:	Feet from Dorth / 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 #	GPS Location: Lat:
Name:	(e.g. xx.xxxx) (e.gxxx.xxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
	Producing Formation:
	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)	Multiple Stage Cementing Collar Used? Yes No
Cathodic Other (Core, Expl., etc.):	
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet
Operator:	
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 Produc	(Data must be collected from the Reserve Pit)
Commingled Permit #:	Chloride content: ppm Fluid volume: bbls
Dual Completion     Permit #:	Dewatering method used:
SWD Permit #:	
EOR Permit #:	
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:				

### KOLAR Document ID: 1456970

Operator Name:	Lease Name:	Well #:
Sec TwpS. R East 🗌 West	County:	

Page Two

**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 Take			<u> </u>	/es 🗌 No	1		L	og Forn	nation (Top), De	pth and	d Datum	Sample
(Attach Additiona				(		N	lame	<del>)</del>			Тор	Datum
Samples Sent to Ge Cores Taken Electric Log Run Geologist Report / M List All E. Logs Run:	Aud Logs	vey		∕es ∟ Νο ∕es □ Νο ∕es □ Νο ∕es □ Νο	1							
			Rep	CASI ort all strings	NG RECO		Nev		duction, etc.			
Purpose of String		ze Hole Drilled	Si	ze Casing et (In O.D.)		Weight _bs. / Ft.		Setting Depth	Type o Cemei		# Sacks Used	Type and Percent Additives
ADDITIONAL CEMENTING / SQUEEZE RECORD           Purpose:         Depth         Type of Cement         # Sacks Used         Type and Percent Additives												
Perforate	Ion Bottom		тур	e of Cement	#0				туре	anu re	Acent Additives	
Plug Back TD Plug Off Zone												
<ol> <li>Did you perform a h</li> <li>Does the volume of</li> <li>Was the hydraulic fractional first Production</li> </ol>	the total base acturing treat	e fluid of the hy ment informat	ydraulic fi ion subm	acturing treat	emical disclo		stry?	Gas Lift	No (If	No, skip No, fill c	o questions 2 an o question 3) out Page Three o	
Estimated Production Oil Bbls. Gas Mcf Per 24 Hours		,	Water Bbls. Gas-Oil Ratio Gravity					Gravity				
DISPOSIT	TION OF GAS	8:			METHO	IETHOD OF COMPLETION: PRODUCTION			N INTERVAL: Bottom			
Vented So	old Use	ed on Lease		Open Hole Perf.			Dually Comp.     Commingled       (Submit ACO-5)     (Submit ACO-4)					
Shots Per Foot	Perforation Top	Perforat Bottor					Record					
TUBING RECORD:	Size:		Set At:		Packer	At:						

Form	ACO1 - Well Completion
Operator	Lotus Operating Company, L.L.C.
Well Name	HASKARD B 3
Doc ID	1456970

All Electric Logs Run

Dual Induction
Neutron/Density
Microlog
Frac log
Sonic

Form	ACO1 - Well Completion
Operator	Lotus Operating Company, L.L.C.
Well Name	HASKARD B 3
Doc ID	1456970

## Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	 Type and Percent Additives
Surface	12.25	8.625	23	268	60/40 pozmix	2% gel,3% CC
Production	7.875	5.5	14	5174	Class ASC	gel, salt and KolSeal

	SERVICES
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1 of 1	1002427	1718	03/22/2019				
······································	INVOICE	NUMBER	<b></b>				
92935232							

Pratt (620)	672-1201	J	LEASE NAME	Haskard B #3
B LOTUS OPERATING CO. LLC I 100 S MAIN ST STE 420 L WICHITA KS US 67202 T O ATTN: ACCOUNTS	PAYABLE	B S I T E	LOCATION COUNTY STATE JOB DESCRIPTION JOB CONTACT	Barber KS Cement-New Well Casing/Pi

JOB #	EQUIPMENT #	PURCHASE	ORDER NO.		TERMS	DUE DATE
41166901					Net - 30 days	04/21/2019
	L		QTY	U of M	UNIT PRICE	INVOICE AMOUNT
For Service Date	es: 03/22/2019 to	03/22/2019				
0041166901	:					
				- 4		
171817763A Cei Surface Casing	nent-New Well Casing,	Pi 03/22/2019				
60/40 POZ			170.00	EA	6.60	1,122.00
441 LbCalcium			- 1.00		254.68	
43 Lb Celloflak 55 Mlles - Unit M			1.00 1.00		87.51 136.13	
	y Equipment Mileage		1.00		453.75	
404 Tn/Mi-Proppa	ant & Bulk Del. Chgs		1.00		555.83	
Depth Charge; 0-			1.00		550.00	
Blending & Mixing	g Service Charge or, first 8 hrs on loc.		170.00 1.00		0.77 96.25	
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and the second						
PLEASE REMIT	TO: SE	ND OTHER CORRES	PONDENCE TO	D:	SUB TOTAL	3,387.0
	SERVICES.LP BA	SIC ENERGY SERV	ICES, LP		SAN TATUN	
BASIC ENERGY PO BOX 841903		1 CHERRY ST, STI			TAX	109.8

							FIELD SERVICE TICKET
EN	ERGY		244 NE H O. Box 86 att, Kansa ione 620-6		TrH-	7-5	1718 <b>17763</b> A
JOB 3-22	-191	DISTRICT Prot K	Consis	1718			
CUSTOMER 67	150	operation c	o.Ll	G	LEASE / /	rska	WELL NO. 3
ADDRESS		•		. <u></u>	COUNTY 2	port	STATE / Cangans
CITY		STATE			SERVICE CF	REW /-	FAM'S, MKC, PCN
AUTHORIZED BY					JOB TYPE:	8.62	5" SIGERC CASNER 742
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQU	JIPMENT#	HRS	TRUCK CALLED 3-21-1 E
86779	15	· · · · · · · · · · · · · · · · · · ·					ARRIVED AT JOB 3-22-A M OGOL
14862	15						START OPERATION
			1.7				FINISH OPERATION
	:	· · · · · · · · · · · · · · · · · · ·	· · .		•		RELEASED
	· .	· · · · ·					MILES FROM STATION TO WELL C

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CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered). The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED Inlex D Bomh

(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE	- 10, 400 71 <sub>m</sub>		· · · · · · · · · · · · · · · · · · ·	1				<u> </u>	
REF. NO.	MATERIAL, EQUIPMENT	AND SERVICE	S USED	UNIT	QUANTITY	UNIT P	RICE	\$ AMOUN	IT.
C. P103	60/1/0 POZ			511	170			2040	00
CC109	Cascium chlos	ride .		16	441	•		4163	65
CC.102	Celloclarke			16	43	•		159	10
5100	Pickup Mileau	17		M.	55		· ·	247	50
5101	Heavy Eccotment	milcau	C	N:	110			825	:0
5113	Bulkdelivery chos	yr Per 7	anmile	TNh	404	· · ·		1010	63
CE200	B Depth chorace	0-500'	· · ·	4/1	1			1000	00
CF240	Blending omixing Se	scree Ch	arey r	SX	170			238	در
6003	Service Superist	F: (5) 8	-MonLoc	KA	1	<u> </u>		175	10
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CHE	EMICAL / ACID DATA:		·						
		-	SERVICE & EQUIF	PMENT	%TA	K ON \$			
			MATERIALS		%TA	X ON \$			
					0	ouit	TOTAL	3387	05
					D.50	5014	(LI)		
					·		T)	•	
SERVICE	- , M-7		ATERIAL AND SER	VICE	i				
REPRESENTATIV	/E F		CUSTOMER AND F		эвү: 🛠 🍊	61 D R	Carl		
				(WELL O	WNER OPERAT	S		AGENT)	J.
FIELD SERVICE (		•	· · · ·						

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# 10244 NE Hwy. 61 P.O. Box 8613 Pratt, Kansas 67124 Phone 620-672-1201

### FIELD SERVICE TICKET 1718 17.53 А

DATE TICKET NO

DATE OF JOB	🕂 👘 DIST	RICT						IER NO.;
			e de Lite	ka i	LEASE //C	is ka	WEL	L NO.
ADDRESS		24 - 14 - 14 - 14 - 14 - 14 - 14 - 14 -			COUNTY		STATE /	
СІТҮ		STATE			SERVICE CR	EW /		
AUTHORIZED BY					JOB TYPE:			742
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQL	JIPMENT#	HRS		
				<u> </u>			ARRIVED AT JOB	
an a	( And the second se				<u></u>	9,		e (
	<u>.</u>	<u>terre en en</u>					RELEASED	
							MILES FROM STATION TO WELL	

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered). The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP. SIGNED

			(WELL OWN	ER, OPERATOR, CONT	RACTOR OR AGENT	)
ITEM/PRICE REF NO	MATERIAL, EQUIPMENT AND SERVICES USED	UNIŢ	QUANTITY	UNIT PRICE	\$ AMOUNT	
	Caller Hole -	1. 19	1.7012			
at the second			12918		1. 1. A.	
	Contract Contract	. 7 1			189 10	
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614	Here y Electric production	1	110		St. A.	
	N. W. W. S. March & C. C. S.		0.1		1.14 6	
C. C	P. D. Weller Lange and and and and	110	1		1 and a list	
	Martin R. S. C. S. C. Martin	and a got	1-6			
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	SERVICE & EQUIP	MENT		X ON \$		
	IMATERIALS		%TA	X ON \$		
				TOTAL	3777	
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SERVICE			. •
REPRESENTATIVE	14	a second second	

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY:

FIELD SERVICE ORDER NO.

CLOUD LITHO - Abik

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)



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# TREATMENT REPORT

C			,										•		
Customer L	OTUSO	Operad:	cu.	Lease No						Date .	3-8	19-19	}		
Lease Ha	Gland	2	$\sim$	Well #	3										
Field Order #	$6^2$ , Station					Casing &	7.625	Depth	270,8	,County	Ba	rber		State /	165
Type Job 9	5.625		acp;	ne			For	mation	2 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4		Legal De	scription	1-35	=13W
PIPE	DATA	PERF	ORATIN	G DATA		FLUID U	JSED			Т	REAT		RESUME		
Casing Size	Tubing Siz	e Shots/F	it	<u> </u>	Acid	1				RATE	PRES	ss	ISIP		n i farin
Depth 270%	Depth	From	То		Pre	Pad			Max				5 Min.		
Volume 7	Volume	From	То		Pad				Min				10 Min.		
Max Press	Max Press	From	То	2	Frac	)			Avg				15 Min.		
Well Connection	n Annulus V	ol. From	То						HHP Use	Ľ			Annulus P	ressure	
Plug Depth	Packer De	pth From	То		Flus				Gas Volur				Total Load		
Customer Repr	esentative (	Salen K	looch	Static	n Mana	iger <u>3us</u>	).hl	11<74	$^{1}$ CM $\sim$ W1	Treat	er Fe	Mnis	Garde	m	
Service Units	78866	77686	46774	7 190	703	19862						)	نديمة . ال		
Driver Names	Femis	Mike	mike			RUN									
Time	Casing Pressure	Tubing Pressure	Bbls. Pu			Rate						ce Log			
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Taylor Printing, Inc. 620-672-3656



HURRICANE SERVICES INC

Invoice Date:

3/28/2010

Remit To: Hurricane Services, Inc. 250 N. Water, Suite 200 Wichita, KS 67202 316-303-9515

LOTUS OPERATING COMPANY, LLC 100 S. MAIN, STE 420 WICHITA, KS 67202	Invoice Da Invoice Lease Na We Cou Job Numl	e #: me: II #: nty:	0341035 0341035 Haskard B 3 (New) Barber ICT1872
Date/Description	HRS/QTY	Rate	Total
Longstring	0.000	0.000	0.00
Heavy Eq Mileage	55.000	3.400	187.00
Ton Mileage	868.000	1.275	1,106.70
Cement pump #231	1.000	1,275.000	1,275.00
Cement plug container	1.000	225.000	225.00
HSC Blend	240.000	20.400	4,896.00
H-Plug	50.000	11.050	552.50
Mud flush	500.000	0.250	125.00
Centralizers 5 1/2"	5.000	51.000	255.00
Cement baskets 5 1/2"	1.000	255.000	255.00
5 1/2" Floatshoe-Flapper AFU	1.000	318.750	318.75
5 1/2" LD Plug & Baffle	1.000	297.500	297.50

**Total** 9,493.45

**TERMS**: Net 30 days. Interest may be charged on past due invoice at rate of 1 ½% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice. **SALES TAX:** Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.

### WE APPRECIATE YOUR BUSINESS!



### HURRICANE SERVICES INC

				TORR CHIL	APULLES UL	~				
Customer	Lotus Operating		Lease & Well #	Haskard B #3				Date		3.28.2019
Service District	Med Lodge		County & State	Barber	Legals S/T/R	12-	35-13	Job #		
Job Type	Longstring	@ PROD	O INJ	I SWD	New Well?	@ YES	D No	Ticket #		IGT1872
Equipment #	Driver		4	Job Safety An	alysis - A Discus					1011012
231	Paul	Hard hat		Gloves	-	□ Lockout/Ta		D Warning Sign	c & Elagoing	
182/254	Kale	H2S Monitor		Eye Protection		C Required Pe	-	Fall Protection	55 5	
74	Travis	Safety Footwea	r	Respiratory Prote	ection	□ Slip/Trip/Fa		Specific Job S		octations
77	Jake	FRC/Protective		Additional Chem		Overhead H		Muster Pointy		
	1	Hearing Protect	tion	Fire Extinguisher				sues noted below	meanen coce	110113
						nments	oneems or is.	des noted below		
		Set 5.5" casing at	t 5350' with TOC a	t 3600'; HSC with 25	5% excess. 50 sx	for RH/MH				
Product/ Service Code		Descr	iption		Unit of Measure	Quantity				Net Amour
/010	Heavy Equipment	Mileage			mi	55.0	)			\$187.
M020	Ton Mileage				tm	868.0	)			\$1,106.
:015	Cement Pump									
050	Cement Plug Cont	einer			ea	1.00				\$1,275.
	Comment ing Com				job	1.00	<u>'</u>			\$225.
P031	HSC				sack	240.00		<u> </u>		\$4,896.
P055	H-Plug				sack	50.00			1	\$552.
P170	Mud Flush				gai	500.00				\$125.
E125	5 1/2" Centralizer				ea	5.00				\$265.
E130	5 1/2" Cement Basi	ket			ea	1.00				\$255.
E145	5 1/2" Float Shoe -	AFU Flapper Type			ea	1.00				\$318.
E170	5 1/2" Latch Down	Plug & Baffle			ea	1.00				\$297.
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Custor	mer Section: On the	e following scale ho	w would you rate i	Hurricane Services I	nc.?		1			<b>A 1 1 1 1</b>
						Total Taxable	\$ -	Tax Data	Net:	\$9,493.4
			ould recommend	HSI to a colleague'	?	State tax laws de used on new well Services relies or	em certain prod s to be sales ta: i the customer p i to make a dele	Tax Rate: ucts and services (exempt. Hurricane rrovided well ermination if services	Sale Tax:	\$ - \$ 9,493.4
		<del></del>				HSI Represe	entative:	Travis Willi		

TERMS: Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 1% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection. Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in aritving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. <u>DISCLAIMER NOTICE</u>: Technical data is presented in good faith, but no warranky is stated or implied. HSI assumes no tabitity for advice or recommendations presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of fulure production performance. Customer represents and warrants that vell and all associated equipment in acceptable condition to receive services by HSL. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

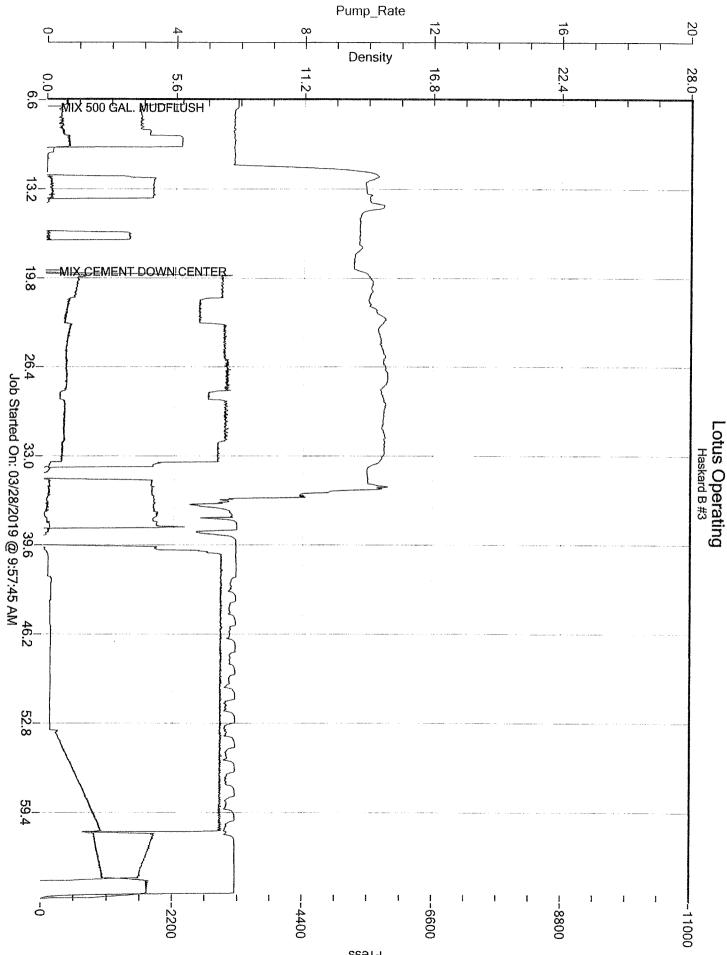
nowr

### **CUSTOMER AUTHORIZATION SIGNATURE**



а **,** В. , Х.

CEMEN	T TR	EATMEN	NT REI	PORT								
Cus	tomer	Lotus C	Operati	gn Company	/ LLC Well:		Haskard I	B #3		Ticket:	IC	T1872
City,	State	Wichita	Ks		County:	······································	Barbe	r		Date:	3/2	8/2019
Fiel	d Rep	Robyn	Brown		S-T-R:		12-35-1	-		Service:		gstring
				<b></b>								
	nhole e Size:	Informati			Slurn				_		ment Blend	
Hole			ft	4	Weight: Water / Sx:		#/sx			oduct	%	#
Casin			in	-	Water / Sx: Yield:		gal / sx ft <sup>3</sup> / sx		Class A Gel		100.0	22560
Casing					Bbis / Ft.:	1,90	11 / 5X		Gypsum		2.0 6.0	450 1354
Tubing /			in	4	Depth:		ft		Caf- 38		0.3	56
	Depth:		ft		Volume:		bbls		KolSeal		5 #/sk	600
Tool / P	acker:		·····	1	Excess:	25%	%		PhenoS	eal	0.3	60
	Depth:		ft		Total Slurry:	66.5	bbis		Sait		10.0	1392
Displace	ment:	125	bbls	]	Total Sacks:	240	SX		CAL-16	)	0.5	112
											Total	26,58
TIME	RATE	PSI	BBLs		REMARKS	TIME	RATE	PSI	BBLs		REMARKS	3
6:00 AM 6:05 AM			<u> </u>	Arrive Safety mostin					L			
6:05 AM				Safety meetin Rig up	19							
7:30 AM				Rig runs casi	ina						Winnesterne generation of a second	
				1	on JT 1,5,15,20,25							
h			1	Basket on JT								
9:45 AM				Casing on bo	ttom/ circulate							
10:15 AM		400.0		pump ball thr	ough							······
10:30 AM	4.0	380.0		Mix 500 gal m	nudflush							
10:45 AM	3.0	50.0		Mix 50 sks H-	plug for RH and MH							
11:00 AM	5.5	500.0		Mix 240 sks (	D 1.56 yeild					****	·····	
11:15 AM				Wash up								
11:30 PM 11:45 AM	5.5	-		Displace								
11:45 AM	3.5	250.0 1,000.0	86.0	see lift Slow rate								
12:00 PM	- 3.0	1,800.0	125.0	Bump plug								
12:05 PM		.,		Release press	sure							
				Float held 1 b								
12:10 PM				Wash up								
12:15 PM				Rig down							······································	
12:30 PM				Depart								
				4				]				
	<u> </u>			84 - 1			<b> </b>					
				*****			<u> </u>					
		CREW			UNIT					SUMMARY		
Cem	enter:		William	s/ Jake Heard	1	F	Average R	ate	Averan	Pressure	Total Flui	d
Pump Ope	~		Villiams		231	F	4.3 bpr		547.50		211.00 bi	
	lk #1:		Dchs		182-254			<u> </u>		<u> </u>	211.00 DI	



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Press

Fracture Start Date/Time:	4/17/19 12:44
Fracture End Date/Time:	4/17/19 14:07
State:	Kansas
County:	Barber
API Number:	15-007-24346-0000
Operator Number:	
Well Name:	Haskard B3
Federal Well:	No
Tribal Well:	No
Longitude:	-98.6813828
Latitude:	37.0202849
Long/Lat Projection:	NAD27
True Vertical Depth (TVD):	4,909'
Total Clean Fluid Volume* (gal):	375,722

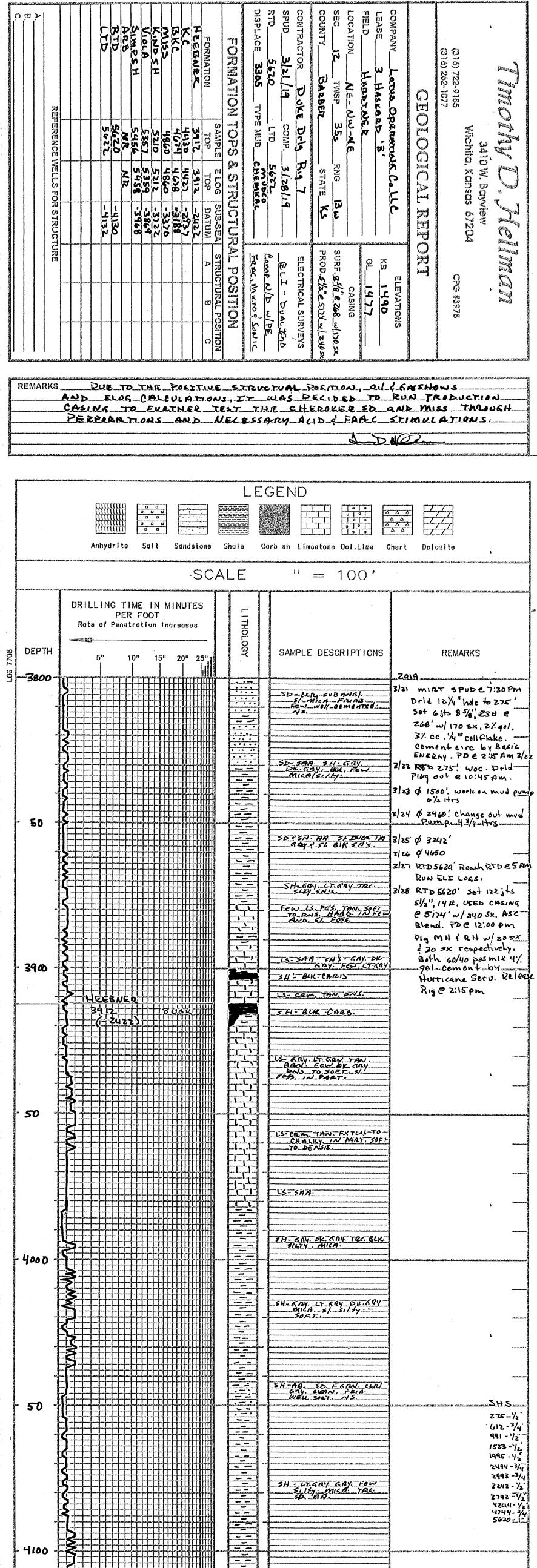


Additive	Specific Gravity	Additive Quantity	Mass (lbs)
WATER	1.00	375,722	3,135,400
Sand	2.65	331,800	331,800
Plexcide P5	0.96	63	505
Plexcide P5	0.96	63	505
Plexsurf 580 ME	0.95	125	991
Plexsurf 580 ME	0.95	125	991
Plexsurf 580 ME	0.95	125	991
Plexsurf 580 ME	0.95	125	991
Plexsurf 580 ME	0.95	125	991
Plexgel 907L-EB	1.02	398	3,388
Plexgel 907L-EB	1.02	398	3,388
Plexslick 957	1.02	291	2,477
Plexgel XPA	1.03	55	473
Clayplex 650	1.15	386	3,704
			Total Slurry Mass (Lbs) 3,486,594

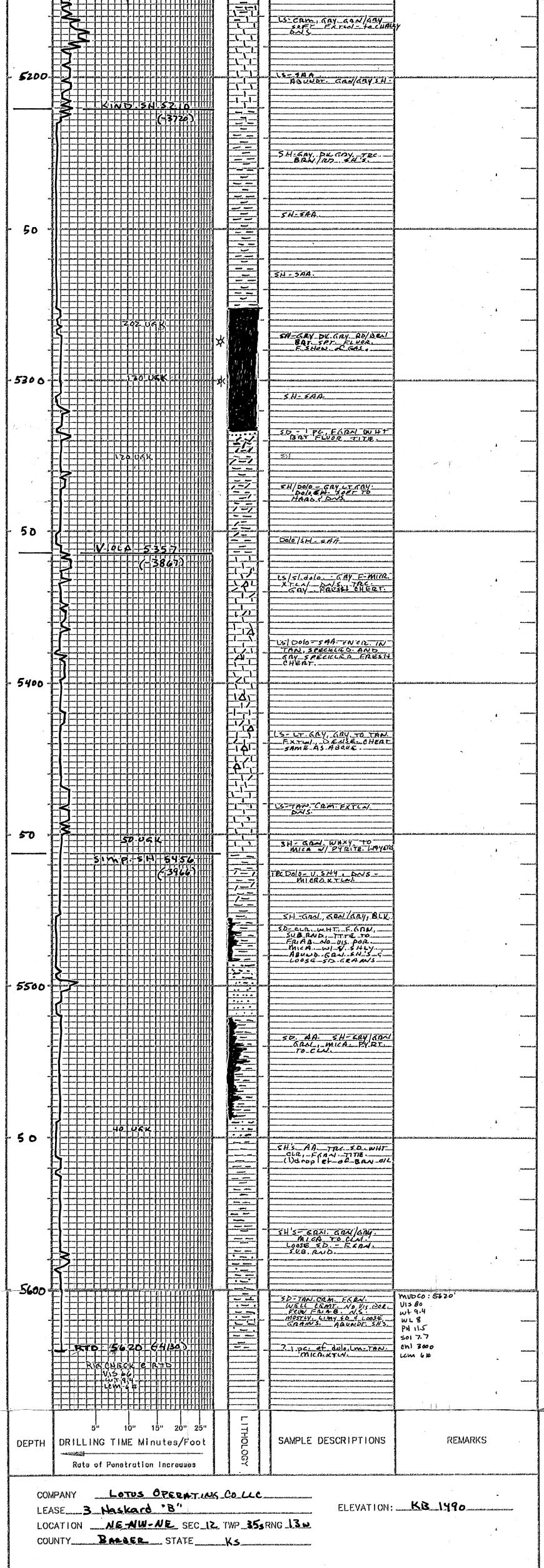
### Ingredients Section:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Mass per Component (LBS)	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments	Claimant Company	Claimant First Name	Claimant Last Name	Claimant Email	Claimant Phone (nnn-nnn-nnnn)
Water	Operator	Carrier/Base Fluid	Water	7732-18-5	100.00%	3,135,400	89.92731%						
Sand	Superior Silica Sand	Proppant	Crystalline Silica in the form of quartz	14808-60-7	100.00%	331,800	9.51645%						
Plexcide P5	Chemplex	Biocide	Methanol	67-56-1	20.00%	101	0.00290%						
Plexcide P5	Chemplex	Biocide	Tributyl Tetradecyl Phosphonium Chloride	81741-28-8	1.00%	5	0.00014%						
Plexsurf 580 ME	Chemplex	Surfactant	Diathanolamone	111-42-2	1.00%	10	0.00028%						
Plexsurf 580 ME	Chemplex	Surfactant	Ethylene glycol monobutyl ether	111-76-2	40.00%	396	0.01137%						
Plexsurf 580 ME	Chemplex	Surfactant	Methanol	67-56-1	2.00%	20	0.00057%						
Plexsurf 580 ME	Chemplex	Surfactant	Oleamide Dielhanolamide	61790-66-7	1.00%	10	0.00028%						
Plexsurf 580 ME	Chemplex	Surfactant	D-limonene	5989-27-5	1.00%	10	0.00028%						
Plexgel 907L-EB	Chemplex	Gelling Agent	Guar Gum	9000-30-0	35.00%	1,186	0.03401%						
Plexgel 907L-EB	Chemplex	Gelling Agent	Distillates (petroleum), Hydrotreated Light	64742-47-8	35.00%	1,186	0.03401%						
Plexslick 957	Chemplex	Friction Reducer	Distillates (petroleum), Hydrotreated Light	64742-47-8	14.00%	347	0.00995%						
Plexgel XPA	Chemplex	Breaker	Hydrogen Peroxide	7722-84-1	8.00%	38	0.00108%						
Clayplex 650	Chemplex	Clay Control	Calcium Chloride	10043-52-4	1.00%	37	0.00106%						<u> </u>
													<u> </u>

\*Total Water Volume sources may include fresh water, produced water, and/or recycled water \*\* Information is based on the maximum potential for concentration and thus the total may be over 100% All component information



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	50			14 E	8{		251 251	2 V 2 V 2 V 2 V 2 V 2 V 2 V 2 V 2 V 2 V			* * * *		$ \begin{array}{c} LS_{-} TRM_{-} LT_{-} & G DAN = E_{-} \\ LS_{-} M(CRO_{-} R_{-} T_{-} A) = DANS \\ All & Uls_{-} Pol_{2} \\ \hline \\ SH_{-} & BLK_{-} (HALS \\ \hline \\ \\ SH_{-} & CRAM_{-} TRM_{-} U_{-} RADA \\ \hline \\ & FX TLAL_SOLV_{-} SOLV_{-} \\ \hline \\ \\ SH_{-} & CRAM_{-} TRM_{-} U_{-} RADA \\ \hline \\ \\ \\ SH_{-} & CRAM_{-} TRM_{-} U_{-} RADA \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	4850 VIS 60 WT 9.2 WL 8.8 CHL 1700 SOL 6.3 PH 11.5
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	50			14 E	8{								$ \begin{array}{c} LS_{-} Theor. LT_{-} & & & & & & & & & & & & & & & & & & &$	4850 VIS 60 WT 9.2 WL 8.8 CHL 1700 SOL 6.3 PH 11.5
	50			14 E	8{								$ \begin{array}{c} LS_{-} TRM_{-} LT_{-} & G DAN = E_{-} \\ LS_{-} M(CRO_{-} R_{-} T_{-} A) = DANS \\ All & Uls_{-} Pol_{2} \\ \hline \\ SH_{-} & BLK_{-} (HALS \\ \hline \\ \\ SH_{-} & CRAM_{-} TRM_{-} U_{-} RADA \\ \hline \\ & FX TLAL_SOLV_{-} SOLV_{-} \\ \hline \\ \\ SH_{-} & CRAM_{-} TRM_{-} U_{-} RADA \\ \hline \\ \\ \\ SH_{-} & CRAM_{-} TRM_{-} U_{-} RADA \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	4850 VIS 60 WT 9.2 WL 8.8 CHL 1700 SOL 6.3 PH 11.5
	50			14 E	8{								$ \begin{array}{c} LS_{2} Theo. LT_{2} & Grad. E_{-} \\ S'L, CHERD, LT_{2} & D'L_{2} & D'L_{2} \\ Sd_{2} & U'S_{2} & D'R_{2} \\ \hline Sd_{2} & Theo. LT_{2} & GRAJ \\ \hline FXTUM. Sold. CARALSJ_{2} & CARA, TAN, Sold & SlowSJ_{2} & CARA, TAN, Sold & SlowSJ_{2} & CARA, TAN, Sold & CARCELBOULT SILE, SULTARYSID_TAN, U.F GRAV TO SILESID_ SAT STAN, SSN & SN & SINESID_ SAT STAN, SSN & SN & SINESID_ SAT STAN, SSN & SN & SN & SN & SN & SN & SN & S$	4850 VIS 60 WT 9.2 WL 8.8 CHL 1700 SOL 6.3 PH 11.5
	50			14 E	8{								$ \begin{array}{c} LS_{-} Theor. LT_{-} & & & & & & & & & & & & & & & & & & &$	4850 VIS 60 WT 9.2 WL 8.8 CHL 1700 SOL 6.3 PH 11.5
	50			14 E	8{								$ \begin{array}{c} LS_{2} Theo. LT_{2} & Grad. E_{-} \\ S'L, CHERD, LT_{2} & D'L_{2} & D'L_{2} \\ Sd_{2} & U'S_{2} & D'R_{2} \\ \hline Sd_{2} & Theo. LT_{2} & GRAJ \\ \hline FXTUM. Sold. CARALSJ_{2} & CARA, TAN, Sold & SlowSJ_{2} & CARA, TAN, Sold & SlowSJ_{2} & CARA, TAN, Sold & CARCELBOULT SILE, SULTARYSID_TAN, U.F GRAV TO SILESID_ SAT STAN, SSN & SN & SINESID_ SAT STAN, SSN & SN & SINESID_ SAT STAN, SSN & SN & SN & SN & SN & SN & SN & S$	4850 VIS 60 WT 9.2 WL 8.8 CHL 1700 SOL 6.3 PH 11.5
	50			14 E	8{								$ \begin{array}{c} LS & Theorem (A) & G (A) & E \\ S_{1} & (A) & (A) & (A) & (A) & (A) \\ S_{2} & (A) & (A) & (A) & (A) & (A) \\ S_{2} & (A) & (A) & (A) & (A) & (A) \\ \end{array} \\ \hline \\ S_{3} & (A) & (A) & (A) & (A) & (A) & (A) \\ \end{array} \\ \hline \\ \hline \\ S & (A) & (A) & (A) & (A) & (A) & (A) \\ \end{array} \\ \hline \\ \hline \\ \\ \\ \\ \hline \\ \\ \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \hline \\$	4850 VIS 60 WT 9.2 WL 8.8 CHL 1700 SOL 6.3 PH 11.5
	50			14 E	8{								$ \begin{array}{c} LS_{2} Theo. LT_{2} & Grad. E_{-} \\ S'L, CHERD, LT_{2} & D'L_{2} & D'L_{2} \\ Sd_{2} & U'S_{2} & D'R_{2} \\ \hline Sd_{2} & Theo. LT_{2} & GRAJ \\ \hline FXTUM. Sold. CARALSJ_{2} & CARA, TAN, Sold & SlowSJ_{2} & CARA, TAN, Sold & SlowSJ_{2} & CARA, TAN, Sold & CARCELBOULT SILE, SULTARYSID_TAN, U.F GRAV TO SILESID_ SAT STAN, SSN & SN & SINESID_ SAT STAN, SSN & SN & SINESID_ SAT STAN, SSN & SN & SN & SN & SN & SN & SN & S$	4850 VIS 60 WT 9.2 WL 8.8 CHL 1700 SOL 6.3 PH 11.5
	50			14 E	8{								$ \begin{array}{c} LS & Theorem (A) & G (A) & E \\ S_{1} & (A) & (A) & (A) & (A) & (A) \\ S_{2} & (A) & (A) & (A) & (A) & (A) \\ S_{2} & (A) & (A) & (A) & (A) & (A) \\ \end{array} \\ \hline \\ S_{3} & (A) & (A) & (A) & (A) & (A) & (A) \\ \end{array} \\ \hline \\ \hline \\ S & (A) & (A) & (A) & (A) & (A) & (A) \\ \end{array} \\ \hline \\ \hline \\ \\ \\ \\ \hline \\ \\ \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \hline \\$	4850 VIS 60 WT 9.2 WL 8.8 CHL 1700 SOL 6.3 PH 11.5
	50			14 E	8{								$ \begin{array}{c} LS & Theorem (A) & G (A) & E \\ S_{1} & (A) & (A) & (A) & (A) & (A) \\ S_{2} & (A) & (A) & (A) & (A) & (A) \\ S_{2} & (A) & (A) & (A) & (A) & (A) \\ \end{array} \\ \hline \\ S_{3} & (A) & (A) & (A) & (A) & (A) & (A) \\ \end{array} \\ \hline \\ \hline \\ S & (A) & (A) & (A) & (A) & (A) & (A) \\ \end{array} \\ \hline \\ \hline \\ \\ \\ \\ \hline \\ \\ \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \hline \\$	4850 VIS 60 WT 9.2 WL 8.8 CHL 1700 SOL 6.3 PH 11.5
	5000			14 E	8{								LS. TRAC. LT. & G. D. L. ENTE St. 2015	4850 VIS 60 WT 9.2 WL 8.8 CHL 1700 SOL 6.3 PH 11.5
	5000			14 E	8{								LS. TRAC. LT. & G. D. L. ENTE St. 2015	4850 VIS 60 WT 9.2 WL 8.8 CHL 1700 SOL 6.3 PH 11.5
	5000			14 E	8{								Let There, by $\mathcal{A}_{1}$ , $\mathcal{B}_{1}$ , $\mathcal{B}_{2}$ , $\mathcal{B}_{1}$ , $\mathcal{B}_{2}$ , $$	4850 VIS 60 WT 9.2 WL 8.8 CHL 1700 SOL 6.3 PH 11.5
	5000			14 E	8{								LS. TRAC. LT. & G. D. L. ENTE St. 2015	4850 VIS 60 WT 9.2 WL 8.8 CHL 1700 SOL 6.3 PH 11.5
	5000			14 E	8{								Let There, by $\mathcal{A}_{1}$ , $\mathcal{B}_{1}$ , $\mathcal{B}_{2}$ , $\mathcal{B}_{1}$ , $\mathcal{B}_{2}$ , $$	4850 VIS 60 WT 9.2 WL 8.8 CHL 1700 SOL 6.3 PH 11.5
	5000			14 E	8{								Let There, by $\mathcal{A}_{1}$ , $\mathcal{B}_{1}$ , $\mathcal{B}_{2}$ , $\mathcal{B}_{1}$ , $\mathcal{B}_{2}$ , $$	Ч₿ <i>5</i> 2 VIS 60 WT 9.2 WL 8.8 CHL 1700 SOL 6.3 PH 11.5 LCM 4# 
	5000			14 E	8{								Lis, Then, Let, & Real, Ex. M. 2018. $Trop P_{2}$ . $SH = B(K, CARE)_{2} = Trop P_{2}$ . $SH = B(K, CARE)_{2} = SH(K)$ . $SH = C(K), P(K, CAR)_{2} = SH(K)$ . SH = C(K), P(K) = SH(K). SH = SH(K), P(K) = SH(K). SH =	Ч₿ <i>5</i> 2 VIS 60 WT 9.2 WL 8.8 CHL 1700 SOL 6.3 PH 11.5 LCM 4# 
	5000			14 E	8{								Lis, Then, Let, & Real, Ex. M. 2018. $Trop P_{2}$ . $SH = B(K, CARE)_{2} = Trop P_{2}$ . $SH = B(K, CARE)_{2} = SH(K)$ . $SH = C(K), P(K, CAR)_{2} = SH(K)$ . SH = C(K), P(K) = SH(K). SH = SH(K), P(K) = SH(K). SH =	Ч₿ <i>5</i> 2 VIS 60 WT 9.2 WL 8.8 CHL 1700 SOL 6.3 PH 11.5 LCM 4# 
	5000			14 E	8{								Lis, Then, Let, & Real, Ex. M. 2018. $Trop P_{2}$ . $SH = B(K, CARE)_{2} = Trop P_{2}$ . $SH = B(K, CARE)_{2} = SH(K)$ . $SH = C(K), P(K, CAR)_{2} = SH(K)$ . SH = C(K), P(K) = SH(K). SH = SH(K), P(K) = SH(K). SH =	Ч₿ <i>5</i> 2 VIS 60 WT 9.2 WL 8.8 CHL 1700 SOL 6.3 PH 11.5 LCM 4# 
	5000			14 E	8{								LL: TAM. L. & GAN. L. & C.	Ч₿ <i>5</i> 2 VIS 60 WT 9.2 WL 8.8 CHL 1700 SOL 6.3 PH 11.5 LCM 4# 
	5000			14 E	8{								LL: TAM. L. & GAN. L. & C.	Ч₿ <i>5</i> 2 VIS 60 WT 9.2 WL 8.8 CHL 1700 SOL 6.3 PH 11.5 LCM 4# 
	5000			14 E	8{								Lie There is T. 6 Gall E $A_{A} = B(A CHERD and E E A_{A} = C_{A} $	Ч₿ <i>5</i> 2 VIS 60 WT 9.2 WL 8.8 CHL 1700 SOL 6.3 PH 11.5 LCM 4# 
	5000			14 E	8{								Lie There is the Gold End $A_{A} = B(A = CARA, E = CARA A_{A} = CARA, E = CARA + CARA A_{A} = CARA, A = CARA + CARA A_{A} = CARA + CARA + CARA + CARAA +$	Ч₿ <i>5</i> 2 VIS 60 WT 9.2 WL 8.8 CHL 1700 SOL 6.3 PH 11.5 LCM 4# 



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