

# KANSAS CORPORATION COMMISSION ORIGINAL OIL & GAS CONSERVATION DIVISION

September 1999 Form Must Be Typed

#### **WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE**

Name: Quest Cherokee, LLC Address: 211 W. 14th Street Comparator Contact Person deminder R. Smith Purchaseer, Bluestem Pipeline, LLC Operator Contact Person deminder R. Smith Pones: (260 ) . 431-9500 Confractor: Name: TXD/Foxce Litenses: 39837 Comparator Contact Person deminder R. Smith Posiginate Type of Completion:  ✓ New Well Re-Entry Work-Well Comparator Contact Person deminder R. Smith Designate Type of Completion:  ✓ New Well Re-Entry Work-Well Comparator Contact Person deminder R. Smith Done Contact Person deminder R. Smith Done Contact Person deminder R. Smith Producing Formation: Multiple Producing	Operator: License # 33344	API No. 10 - 15-099-24383-0000
Address: 211 W. 14th Street  City/StatAryDr. Chanute, KS 66720  Equivalence Blaster Pipoline, LLC  Operator Contact Person: Jennifer R. Smith  Phone: (EZ) 431-9500  Contractor: Name: TXD/Foode  Contractor: Name: TXD/Foo	Name: Quest Cherokee, LLC	
City/State/Zip: Chanule, KS 66720		
Purchaser: Bluestem Pippeline, LLC Operator Contact Parson. Jennifer R Smith Phone: (\$20_ \ 431-9500 Contractor: Name: TXDF-coxe Licenses: 39837 CONFIDENTIAL Wellista Geologist: Ken Recoy Posignate Type of Completion:  V New Well Re-Entry Workpress Oil SWD 910W Temp. Abd.  Oil SWD 910W Temp. Abd.  Dry Other (Core, WSW, Expl., Cathodic, etc) If Workpress/Re-entry: Old Well Info as follows: Original Comp. Date: Original Total Depth: Despending Repent: Corn. to Entr/SWD Plug Back Commingled Docket No. Dual Competion Double or Other (SWD or Entr.): Double or Recompletion Date Recomplision Date Recomplis		
Operator Contact Person. Jannifor R. Smith Phones: (£20_) 431-9500   Contactor: Name: TXD/Foxxe  License: 33837   Contactor: Name: Carrico, Danny C. Well #: 26-1  Producing Formation, Multiple  Producing Formation, M		_
Phone: (\$20   \$31-9500   \$31-9500   \$31-9500   \$31-9500   \$3837   \$383		
Contractor: Name: TXD/Foxose  Licenses: 39837  Well state Geologist: Ken Recov  Well & Re-Entry		
Field Name   Cherokee Basin CBM	•	
Wellsite Goologist. Ken Recoy  Designate Type of Completion:  New Well Re-Entry WorkSig S  New Well Re-Entry WorkSig S  Oil SWD SIOW Temp. Abd.  Amount of Surface Pipe Set and Cemented at 20 Feet Multiple Stage Cementing Collar Used?   Yes Fin No Hyes, show depth set   Feet Multiple Stage Cementing Collar Used?   Yes Fin No Hyes, show depth set   Feet Multiple Stage Cementing Collar Used?   Yes Fin No Hyes, show depth set   Feet Multiple Stage Cementing Collar Used?   Yes Fin No Hyes, show depth set   Feet Multiple Stage Cementing Collar Used?   Yes Fin No Hyes, show depth set   Feet Multiple Stage Cementing Collar Used?   Yes Fin No Hyes, show depth set   Feet Multiple Stage Cementing Collar Used?   Yes Fin No Hyes, show depth set   Feet Multiple Stage Cementing Collar Used?   Yes Fin No Hyes, show depth set   Feet Multiple Stage Cementing Collar Used?   Yes Fin No Hyes, show depth set   Feet Multiple Stage Cementing Collar Used?   Yes Fin No Hyes, show depth set   Feet Multiple Stage Cementing Collar Used?   Yes Fin No Hyes, show depth set   Feet Multiple Stage Cementing Collar Used   Yes Fin No Hyes, show depth set   Feet Multiple Stage Cementing Collar Used   No Entra Hyes Fin No Hyes, show depth set   Feet Multiple Stage Cementing Collar Used   No Entra Hyes Fin Hy		Field Name: Cherokee Basin CBM
Designate Type of Completion:    New Well	LIOO1100.	
Total Depth: 923 Plug Back Total Depth: 913.77    Total Depth: 923 Plug Back Total Depth: 913.77		Flevation: Ground: 915 Kelly Bushing: n/a
Amount of Surface Pipe Set and Cemented at 20 Feet    Gas	0.70	1
Multiple Stage Cementing Collar Used?		,
If yes, show depth set		
If Workover/Re-entry: Old Well Info as follows:  Operator:  Well Name:  Original Comp. Date:  Original Total Depth:  (Data must be collected from the Reserve Fill)  Ocher (SWD or Enhr.?)  Other (SWD or Enhr.?)  Other (SWD or Enhr.?)  Other (SWD or Enhr.?)  Other Recompletion Date  Outer Recompletion Date  Notary Public:  INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-103, 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.  Notary Public:  Notary Public:  Original Total Depth:  (Chat must be collected from the Reserve Fill)  Original Comp. Date:  Original Total Depth:  (Chat must be collected from the Reserve Fill)  Original Comp. Date:  Original Total Depth:  (Chat must be collected from the Reserve Fill)  Original Comp. Date:  Original Total Depth:  (Chat must be collected from the Reserve Fill)  Original Control of Child	•	
Septend   Sept	• • • • • • • • • • • • • • • • • • • •	
Well Name:  Original Comp. Date:  Original Comp. Date:  Original Total Depth:  Deepening Re-perf.  Comv. to Enhr/SWD  Plug Back Plug Back Total Depth  Commingled Docket No.  Docket No.  Doul Completion Docket No.  Other (SWD or Enhr.?)  Docket No.  Date Reached TD Completion Date or Recompletion Date or Recompletion Date  INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing abumited with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.  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.  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.  Subscribed and sworn to before me this All-day of Letter of Confidentiality Received  If Denies (Yes Date:  Wireline Log Received  RECEIVED  Geologist Report Recalved KANSAS CORPORATION COMMISS  Date Commission Expires:  Sec. Twp. S. R.   Least   West   Letter of Confidentiality Received   If Denies   No. Notary Public State of Kansas   No. Notary Public Sta	•	
Original Comp. Date:Original Total Depth:Obtains Fluid Management Plan		teet depth tosx cmt.
Deepening Re-perf. Conv. to Enhr/SWD Plug Back Plug Back Total Depth  Commingled Docket No.  Dual Completion Docket No.  Other (SWD or Enhr.?) Docket No.  Completion Date or Recompletion Date or Recompletion Date or Recompletion Date  Necompletion Date or Recompletion Date  INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 s. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.  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.  Signature:  Wireline Log Received RECEIVED Geologist Report Received RANSAS CORPORATION COMMISS Notary Public.  **Wireline Log Received RECEIVED Geologist Report Received RANSAS CORPORATION COMMISS Date Commission Expires: 8-4 - 2010  **TERRA KLAUMAN Notary Public.** State of Kansas.**  **TERRA KLAUMAN Notary Public.** State of Kansas.**  **CONFERENTIAL RECEIVED Geologist Report Received RECEIVED Geologist Report Received Rece		Drilling Fluid Management Plan 41+7[ 1]+12-10-08
Plug Back Plug Back Plug Back Total Depth  Commingled Docket No.  Dual Completion Docket No.  Other (SWD or Enhr.?) Docket No.  Completion Date or Recompletion Date or County:  INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Value 23-130, 82-3-106 and 82-3-107 apply.  Information of side two of this form will be held confidential for a period of 12 months if requested in will and with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.  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.  KCC Office Use ONLY  Letter of Confidentiality Received  If Denied, Yes Date:  Wireline Log Received  Geologist Report Received Kansas Corporation Commiss on Country Public: State of Kansas Corporation Commiss on Country Public: State of Kansas Construction Countries on		(Data must be collected from the Reserve Pit)
Dual Completion  Docket No.  Dual Completion  Docket No.  Other (SWD or Enhr.?)  Docket No.  Other (SWD or Enhr.?)  Docket No.  Other (SWD or Enhr.?)  Docket No.  Geologist Reached TD  Completion Date or Recompletion Date or Recompletion Date or Recompletion Date  INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in this grad and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.  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.  Subscribed and sworn to before me this Adday of Adda		Chloride contentppm Fluid volumebbls
Dual Completion		Dewatering method used
Other (SWD or Enhr.?) Docket No.  6-02-08	·	Location of fluid disposal if hauled offsite:
Conception Date or Recompletion Date    Completion Date   Completion Date   Completion Date   Completion Date   County:   Coun	·	Operator Name:
6-02-08   6-10-08   Date Reached TD   Date Reach	Other (SWD or Enhr.?) Docket No	
INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.  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.  Signature:    Wireline Log Received   RECEIVED	6-02-08 6-10-08 6-11-08	
INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.  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.  Signature:    KCC Office Use ONLY		
Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.  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.  Signature:     Wireline Log Received   RECEIVED   Geologist Report Received   RECEIVED   Geologist Report Received   RECEIVED   UIC Distribution   SEP 2 5 2008		County: Docket No.:
Signature:	Kansas 67202, within 120 days of the spud date, recompletion, workove information of side two of this form will be held confidential for a period of 107 for confidentiality in excess of 12 months). One copy of all wireline log-	ver or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply.  12 months if requested in writing and submitted with the form (see rule 82-3-s and geologist well report shall be attached with this form. ALL CEMENTING
Letter of Confidentiality Received    Subscribed and sworn to before me this Aday of April	All requirements of the statutes, rules and regulations promulgated to regul herein are complete and correct to the best of my knowledge.	late the oil and gas industry have been fully complied with and the statements
Subscribed and sworn to before me this Aday of	Signature: Jennife L. Smith	KCC Office Use ONLY
Wireline Log Received RECEIVED  Geologist Report Received KANSAS CORPORATION COMMISS  UIC Distribution SEP 2 5 2008  Date Commission Expires: 8-4-2010 TERRA KLAUMAN  Notary Public State of Kansas	Title: New Well Development Coordinator Date: 9-24-08	Letter of Confidentiality Received
Notary Public: September 100 SEP 2 5 2008  TERRA KLAUMAN  Date Commission Expires: 8-4-2010  TERRA KLAUMAN  Notary Public-State of Kansas  CONSERVATION DIVIDING TO THE Public State of Kansas	Subscribed and sworn to before me this Athay of Achards	. If Denied, Yes Date:
Notary Public: Sep 25 2008  Date Commission Expires: 8-4-2010  TERRA KLAUMAN  Notary Public-State of Kansas  CONSERVATION DIVIDING TO THE PUBLIC STATE OF KANSAS  CONSERVATION DIVIDING TO THE PUBLIC STATE OF KANSAS	20_08.	Wireline Log Received RECEIVED Geologist Report Received KANSAS CORPORATION COMMISSION
Date Commission Expires: 5-4-300 Notary Public - State of Kansas	Notary Public Leva Klauman	IIIO Distribusion
Notary Public - State of Kansas	Date Commission Expires: 8-4-2010 TERR	A KLAUMAN I
My Appt. Expires &-4-3010 WICHITA, KS	Notary Pub	Dic - State of Kansas CONSERVATION DIVISION

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CONFIGNIAL

Operator Name: Qu	est Cherokee, LL	С	Lease	Name:	Carrico, Dan	ny C.	Well #: 26-1	
	94 S. R. 18			y: Labe				
tested, time tool ope temperature, fluid re	n and closed, flowing covery, and flow rate	and base of formations g and shut-in pressure s if gas to surface tes inal geological well sit	es, whether sh t, along with f	hut-in pre	essure reached	static level, hyd	rostatic pressure	es, bottom hole
Drill Stem Tests Take		☐ Yes ☐ No		<b>⊘</b> L	og Format	ion (Top), Depth	and Datum	Sample
Samples Sent to Ge	ological Survey	Yes No		Nam See	e attached		Тор	Datum
Cores Taken Electric Log Run (Submit Copy)		Yes No						
List All E. Logs Run:								
Compensated Dual Induction	d Density Neut n Log	tron Log						
		CASIN Report all strings s	NG RECORD		ew Used	ction etc.		
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Wei	ight	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12-1/4	8-5/8"	22		20	"A"	5	
Production	7-7/8	5-1/2	14.5		913.77	"A"	110	
		ADDITION	IAL CEMENTI	NG / SQI	JEEZE RECOR	D		
Purpose: Perforate Protect Casing Plug Back TD Plug Off Zone	Depth Top Bottom	Type of Cement	#Sacks	s Used		Type and	Percent Additives	
Shots Per Foot		ON RECORD - Bridge F				acture, Shot, Ceme		rd Depth
Specify Footage of Each Interval Perforated  4 775-777					·	ols 2%kd water, 445bbls water		
4	423-425/394-39	6/382-385/347-349	)		400gal 15%HCLw/ 55bl	ols 2%kcl water, 540bbls wate	er w/ 2% KCL, Blookle, 2300	# 20/40 sand 423-425/394-396
								382-385/347-349
4	284-288/254-25	8			400gal 15%HCLw/ 34b	bls 2%kcl water, 675bls wate	r w/ 2% KCL, Blocide, 7700:	# 20/40 sand 284-288/254-258
TUBING RECORD 2-	Size 3/8"	Set At 817	Packer A	At	Liner Run	Yes N	lo	
Date of First, Resumer	d Production, SWD or E	Enhr. Producing I	Method [	Flowin	g Pump	ing Gas I	Lift Othe	er (Explain)
Estimated Production Per 24 Hours	Oil n/a	Bbls. Gas	Mcf	Wat	er I	Bbls.	Gas-Oil Ratio	Gravity
Disposition of Gas	METHOD OF (	COMPLETION			Production Inte	erval		
Vented Sold	Used on Lease	Open Ho		i. 🔲 I	Dually Comp.	Commingled		



211 W. 14TH STREET, CHANUTE, KS 66720 620-431-9500



TICKET NUMBER

6698

SEP 2 4 2008

FIELD TICKET REF #

FOREMAN Ja

MARIDENTIAL SSI 628150

TREATMENT REPORT & FIELD TICKET CEMENT

API \_15.099 - 24383 WELL NAME & NUMBER SECTION | TOWNSHIP | RANGE

					520	10111101111	10000	0001111
6-11.08	Carr	ico D	AVIGA	26-1	26	34	18	LB
FOREMAN /	TIME	TIME	LE\$S	TRUCK	TRAILER	TRUC	1	EMPLOYEE
OPERATOR	IN	OUT	LUNCH	#	#	HOUF	RS	SIGNATURE
Jue	12:30	5:45		903427		5 · ô	15 /	or Blanker
Tim		4:45		903255		4.2		L Gwa
TyleR		5:00		903600		4.5	5	2
DANIEL		5:35 PM	•	904735		5	X	5.404.0
Maverick	1	5:00	·	963140	932452	4.	5	120
					,			
OB TYPE Langsty	HOLE:	SIZE	<u>′Я</u> н	OLE DEPTH <u>92</u>	2 cas	ING SIZE & W	EIGHT <u>5</u>	1/2 /4#
CASING DEPTH 9/3		PIPE		JBING	ОТН	ER	<u>.</u>	
SLURRY WEIGHT	$\frac{3\cdot 5}{}$ SLURF	RY VOL	w	ATER gal/sk	CEM	IENT LEFT in	CASING	0

DISPLACEMENT 21.75 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI REMARKS: 1 Installed Coment head RAN 25x5 gd of of coment to get due to Surface. Flush gump

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION OF SERVICES OR PRODUCT	TOTAL AMOUNT
903427	1	Foreman Pickup	
903255	1	Cement Pump Truck	
903660		Bulk Truck	
96.3140	1	Transport Truck	
932452		Transport Trailer	
904735		80 Vac	
	9/3.77	Casing 5 1/2	
	5	Centralizers	
		Float Shoe	
	/	Wiper Plug	
	2	Frac Baffles RECEIVED	
	90 SK	Portland Cement KANSAS CORPORATION COMMISSION	ON
	22 SK	Gilsonite	
	1 SK	Flo-Seal SEP 2.5 2008	
	9 5K	Premium Gel CONSERVATION DIVISION	
	2 5K	Cal Chloride WICHITA, KS	
	190	KCL	1984
	5000 30	City Water	
	300		

### **FOXXE ENERGY SERVICES**

i Co F

### DRILLERS LOG

## **FOXXE ENERGY SERVICES**

RIG #	101		S. 26	1. 34	R. 18	GAS TEST	s:	
API#	099-24383	3 .	County:	Labette		130'	8 in 1-1/4"	17.2
Elev.:	915'		Location:	Kansas	***	161'	6 in 1-1/4"	15.4
						285'	22 in 1-1/4	
Operator:	Quest Che	erokee LLC				378'	2.5# -1"	220
Address	210 W. Pa	ark Ave., sui	te 2750			409'	2.5# -1"	220
	Oklahoma	City, OK. 7	3102		****	440'	2.5# -1"	220
WELL#	26-1		Lease Name:	Carrico, D	anny C.	471'	2.5# -1"	220
Footage location	on	660	ft. from the	N	line	502'	2.5# -1"	220
		685	ft. from the	E	line	688'	5.5# - 1"	336
<b>Drilling Contra</b>	ctor:		<b>FOXXE ENE</b>	<b>ERGY SE</b>	<b>RVICES</b>	750'	5.5# - 1"	336
Spud Date:			Geologist:		<del></del>	781'	5.5# -1"	336
Date Complete	ed:	6/10/2008	Total Depth:	921'	•	812"	5# - 1"	319
Exact Spot Loc	ation	NE NE				921'	5# - 1"	319
Casing Rec								
	Surface	Production		· · · · · · · · · · · · · · · · · · ·				
Size Hole	12-1/4"	7-7/8"					Kil	
Size Casing	8-5/8"	5-1/2"					050 0 :	
Weight	24#	15-1/2#		TH. II. W			SEP 2 4	2000
Setting Depth	22'	22' case				<del> </del>	COMEID	
Type Cement	port							
Sacks		them						
	.L		WELL LOG					
Formation	Тор	Btm.	Formation	Тор	Btm.	Formation	Тор	Btm.
surface	0	22	sand	351	356	lime	788	921
shale	22		coal	356		<u> </u>	1	021
lime	112		shale	358	372	1		
shale					1 J/Z			
	146	149	llime	A				
	146 149		lime shale	372	380			
b. shale	149	152	shale	372 380	380 381			
b. shale shale	149 152	152 153	shale b. shale	372 380 381	380 381 386			
b. shale shale coal	149 152 153	152 153 154	shale b. shale shale	372 380 381 386	380 381 386 388			
b. shale shale coal shale	149 152 153 154	152 153 154 219	shale b. shale shale coal	372 380 381 386 388	380 381 386 388 389			
b. shale shale coal shale lime	149 152 153 154 219	152 153 154 219 251	shale b. shale shale coal shale	372 380 381 386 388 389	380 381 386 388 389 405			
b. shale shale coal shale lime shale	149 152 153 154 219 251	152 153 154 219 251 253	shale b. shale shale coal shale lime	372 380 381 386 388 389 405	380 381 386 388 389 405 407			
b. shale shale coal shale lime shale b. shale	149 152 153 154 219 251 253	152 153 154 219 251 253 255	shale b. shale shale coal shale lime shale	372 380 381 386 388 389 405 407	380 381 386 388 389 405 407 421			
b. shale shale coal shale lime shale b. shale shale	149 152 153 154 219 251 253 255	152 153 154 219 251 253 255 257	shale b. shale shale coal shale lime shale coal	372 380 381 386 388 389 405 407 421	380 381 386 388 389 405 407 421 423			
b. shale shale coal shale lime shale b. shale shale lime	149 152 153 154 219 251 253 255 257	152 153 154 219 251 253 255 257 282	shale b. shale shale coal shale lime shale coal shale	372 380 381 386 388 389 405 407 421 423	380 381 386 388 389 405 407 421 423 443			
b. shale shale coal shale lime shale b. shale shale lime shale	149 152 153 154 219 251 253 255 257 282	152 153 154 219 251 253 255 257 282 283	shale b. shale shale coal shale lime shale coal shale coal	372 380 381 386 388 389 405 407 421 423 443	380 381 386 388 389 405 407 421 423 443			
b. shale shale coal shale lime shale b. shale shale lime shale lime shale b. shale	149 152 153 154 219 251 253 255 257 282 283	152 153 154 219 251 253 255 257 282 283 286	shale b. shale coal shale lime shale coal shale coal shale coal shale coal sand/shale	372 380 381 386 388 389 405 407 421 423 443	380 381 386 388 389 405 407 421 423 443 444 483			
b. shale shale coal shale lime shale b. shale shale lime shale lime shale b. shale/coal	149 152 153 154 219 251 253 255 257 282 283 286	152 153 154 219 251 253 255 257 282 283 286 293	shale b. shale coal shale lime shale coal shale coal shale coal shale coal sand/shale coal	372 380 381 386 388 389 405 407 421 423 443 444 483	380 381 386 388 389 405 407 421 423 443 444 483			
b. shale shale coal shale lime shale b. shale shale lime shale lime shale b. shale/coal	149 152 153 154 219 251 253 255 257 282 283 286 293	152 153 154 219 251 253 255 257 282 283 286 293 296	shale b. shale shale coal shale coal shale coal shale coal sand/shale coal shale	372 380 381 386 388 389 405 407 421 423 443 444 483	380 381 386 389 405 407 421 423 443 444 483 484 570			
b. shale shale coal shale lime shale b. shale shale lime shale lime shale b. shale/coal lime shale	149 152 153 154 219 251 253 255 257 282 283 286 293 296	152 153 154 219 251 253 255 257 282 283 286 293 296 298	shale b. shale shale coal shale lime shale coal shale coal sand/shale coal shale	372 380 381 386 388 389 405 407 421 423 443 444 483 484 570	380 381 386 389 405 407 421 423 443 444 483 484 570 674			
b. shale shale coal shale lime shale b. shale lime shale lime shale lime shale b. shale/coal lime shale	149 152 153 154 219 251 253 255 257 282 283 286 293 296 298	152 153 154 219 251 253 255 257 282 283 286 293 296 298 346	shale b. shale shale coal shale lime shale coal shale coal shale coal sand/shale sand/shale sand/shale coal	372 380 381 386 388 389 405 407 421 423 443 444 483 484 570 674	380 381 386 388 389 405 407 421 423 443 444 483 484 570 674 676			
b. shale shale coal shale lime shale b. shale lime shale lime shale b. shale/coal lime shale lime shale	149 152 153 154 219 251 253 255 257 282 283 296 293 296 298 346	152 153 154 219 251 253 255 257 282 283 286 293 296 298 346 348	shale b. shale coal shale lime shale coal shale coal shale coal shale coal sand/shale coal shale coal shale	372 380 381 386 388 389 405 407 421 423 443 444 483 484 570 674 676	380 381 386 388 389 405 407 421 423 443 444 483 484 570 674 676 740			
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