CONFIDENTIAL

17 Dec. 2008

Recompletion Date

Spud Date or

KANSAS CORPORATION COMMISSION OR IGINA

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

Operator: License # 5363	API No. 15 - 025-21477-00-00
Name: Berexco Inc.	County: Clark
Address: P. O. Box 20380	NW NWNE NE Sec. 15 Twp. 31 S. R. 24 East West
City/State/Zip: Wichita, KS 67208	feet from S / (N)(circle one) Line of Section
Purchaser: N/A	feet from E) W (circle one) Line of Section
Operator Contact Person: Evan Mayhew	Footages Calculated from Nearest Outside Section Corner:
Phone: (<u>316</u>) <u>265-3311</u>	(circle one) NE SE NW SW
Contractor: Name: Beredco Inc. CONFIDENTIAL	Lease Name: Denton Well #: 1-15
License: 5147 IAN 1 5 2009	Field Name: Wildcat
Wellsite Geologist: William B. Bynog	Producing Formation: N/A
Designate Type of Completion:	Elevation: Ground: 2549' Kelly Bushing: 2562'
New Well Re-Entry Workover	Total Depth: 5686' Plug Back Total Depth: N/A
Oil SWD SIOW Temp. Abd.	Amount of Surface Pipe Set and Cemented at 770 Feet
Gas ENHR SIGW	Multiple Stage Cementing Collar Used? ☐Yes ☑Yes ☑No
Dry Other (Core, WSW, Expl., Cathodic, etc)	If yes, show depth setFeet
If Workover/Re-entry: Old Well Info as follows:	If Alternate II completion, cement circulated from
Operator:	feet depth tosx cmt.
Well Name:	Drilling Fluid Management Plan AM 4-13-09 (Data must be collected from the Reserve Pil)
Original Comp. Date: Original Total Depth:	(Data must be collected from the Reserve Pit)
Deepening Re-perf Conv. to Enhr./SWD	Chloride content 28,000 ppm Fluid volume 1,200 bbls
Plug BackPlug Back Total Depth	Dewatering method used haul to disposal & evaporation
Commingled Docket No	Location of fluid disposal if hauled offsite:
Dual Completion Docket No	· ·
Other (SWD or Enhr.?) Docket No	Operator Name: Oil Producers Inc. of KS
	Lease Name: Rich #9 SWD License No.: 8061

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.

County: Comanche

30 Dec. 2008

Completion Date or

Recompletion Date

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: Molary Swith
Title: ENGINEERING TECHNIOIAN Date: (5/1) / 209
Subscribed and sworn to before me this 15 day of
102009 DIANA E. BELL Notary Public - State of Kansas
Notary Public Did Seld My Appt. Expires 8-10-11
Date Commission Expires: 10, 20(/
' (/

30 Dec. 2008

Date Reached TD

V	KCC Office Use	ONLY
<u> </u>	Letter of Confidentiality At	
<u></u>	 Wireline Log Received _ Geologist Report Receiv k	RECEIVED INSAS CORPORATION COMMISSION
	_ UIC Distribution	JAN 2 9 2009

__ License No.: 8061

Docket No.: D-28178

Quarter SE Sec. 22 Twp. 32 S. R. 19 East West

Operator (tarrio:	exco Inc.			e Name:		· · · · · · · · · · · · · · · · · · ·	Well #: 1-1	5
INSTRUCTIONS: Short tested, time tool open a temperature, fluid recovered Electric Wireline Logs s	w important tops a and closed, flowing very, and flow rates	and shut-in pressures if gas to surface test,	penetrated. s, whether s along with	hut-in pres	cores. Report	static level, hydros	static pressur	es, bottom hole
Drill Stem Tests Taken (Attach Additional Sh	neets)	✓ Yes No	***	✓Lo	g Formati	on (Top), Depth ar	nd Datum	Sample
,	•	☑ Yes ☐ No		Name			Тор	Datum
Samples Sent to Geological Survey Yes No Cores Taken Yes Vo				Heeb	ner		4524'	(-1962')
Electric Log Run (Submit Copy)		✓ ✓ Yes □ No	Lans		ng	4707'		(-2145')
List All E. Logs Run:				Marm	aton		5226'	(-2664')
Compensated Der	nsity/Neutron P	F Micro Dual Indu	ction &	Fort	Scott		5353'	(-2791')
Sonic Logs (e-ma				Miss	issippi		5563'	(-3001')
		CASIN Report all strings se	G RECORD	✓ Nev		tion, etc.		
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)		eight ./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
surface	12 1/4"	8 5/8"	23#		770'	60/40 POZ	240	3%cc,1/4# flakes
						Class A	100	2% gel, 3% cc
								8% gel in POZ
	1	ADDITION	AL CEMENT	ING / SQU	EEZE RECORI)		
Purpose: Depth Type of Cement #Sacks U		s Used	Type and Percent Additives					
Protect Casing Plug Back TD Plug Off Zone					CONFIDENCE			
								ONFIDENTIA
Shots Per Foot		ON RECORD - Bridge P Footage of Each Interval F		е		cture, Shot, Cement mount and Kind of Ma		Depth
						<i>V</i>		DEIVEL!
								2 9 2009
							CONSERV	ATION DIVISION
TUBING RECORD	Size	Set At	Packer	At	Liner Run	☐ Yes ··· ☐ No	Wic	CHITA, KS 1
Date of First, Resumed P	roduction, SWD or E	nhr. Producing M	ethod	Flowing	Pump	ing Gas Lift	Oth	ner (Explain)
Estimated Production Per 24 Hours	Oil	Bbls. Gas	Mcf	Wate	r E	3bls. G	as-Oil Ratio	Gravity
Disposition of Gas	METHOD OF C	COMPLETION			Production Interval			
Vented Sold	Used on Lease	☐ Open Hol		rf. 🔲 D	ually Comp.	Commingled		

LIED CEMENTING CO., LLC. 043183

KEMIT TO P.O. BOX 31 RUSSELL, KANSAS 67665			SERV	ICE POINT:	'c:ne lacke
Denton SEC. TWP. RANG		ALLED OUT	ONLOCATION	JOB START	JOB FINISH
2000		12:00pm.	3/30gm	COUNTY	STATE
LEASE WELL# 1-15 LOCA	TION minn	eola, Ks-5	5,5E	Clork	Ko.
OLD OR NEW (Circle one)	- KCC				2
CONTRACTOR BOREDED#1	0 (7 (2) (2)	OWNER Beso	0.500		
TYPE OF JOB KOT OLUC	C C C C C C C C C C C C C C C C C C C	A A		194	
HOLE SIZE 778 T.D.56	60 /NFIUEN			.)	2-1
CASING SIZE		AMOUNT ORE	ERED <i>210</i> :	3x 600/4	5/4/
TUBING SIZE DEPTH	555	 :			
DRILL PIPE DEPTH /	<u> </u>				
TOOL DEPTH PRES. MAX MINIMUN	Л	COMMON_/	26 A	@ 15.45	1946.7
MEAS. LINE SHOE JOI		POZMIX	84	@ <i>8.00</i>	672.0
CEMENT LEFT IN CSG.		GEL	7		145.6C
PERFS.		CHLORIDE			
DISPLACEMENT MUDITIESL		ASC		_ @	
EQUIPMENT				_ @	
		RECEIVED SCORPORATION COMMIS	51 0 N	@	
PUMPTRUCK CEMENTER STOCK	LC HANSE	SCORPORATIONCOMMI			
#360265 HELPER STELLY	louis.	JAN 2 9 2009		_ @	
BULK TRUCK		JAN E	N	_ @	
#356-252 DRIVER Matt T.		COMPANION DIVISION DIVISIONI DIVINI DIVISIONI DIVISIONI DIVINI DIVINI DIVISIONI DIVISIONI DIVISIONI DIVINI DIVISI			
BULK TRUCK		Michigan		@	
# DRIVER		HANDLING_	217	@ <i>3.40</i>	520.80
•		MILEAGE <u>6</u>	0 × 217	X.10	<u> 1302.0</u>
REMARKS:	,			TOTAL	4587.16
Aus@ 1550 Wosx. Dispu	must				
pluge 800 w/50 Sx Diep .	1/ Fresh	•	SERVI	CE	
plus @300 w/405x Ding wy	fred			,	
pluge Co cy/200x		DEPTH OF JOH			(5.3.3.3
plus ret upagex			CHARGE	<u> </u>	1017.00
plusmose wasx		EXTRA FOOTA MILEAGE		-@ 	420.0
		MANIFOLD		_@ <i>Z.u</i> z_ @	72010
				_	
				_ @	
CHARGE TO: BerexCo					
· -				TOTAL	1437.02
STREET					·
CITYSTATE	ZIP	11	LUG & FLOA	T FOLIDMEN	ידי
•		r	LUG & FLOA	I EQUITMEN	
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•			$\overline{}$	@	
			1101	7@ <	
To Allied Cementing Co., LLC.	•	· , 		\mathcal{L}_{a}	
You are hereby requested to rent cementing				_ @	
and furnish cementer and helper(s) to assist contractor to do work as is listed. The abo					
done to satisfaction and supervision of own		•		TOTAL	
contractor. I have read and understand the	-		•		
TERMS AND CONDITIONS" listed on the		SALES TAX (Į	f Any)		
11 / A		TOTAL CHAR			
DELIVER MANERAL MANERAL CONTRACTOR CONTRACTO	1.				
PRINTED NAME Y //4/0 -a/	4145	DISCOUNT	4700	IF PAI	D IN 30 DAYS
				•	

ALLIED CEMENTING CC., LLC. 30445

•	SERV.	WAT DON'T
REMIT TO P.O. BOX 31		VICE POINT:
	JAN 1 5 2009	_ LIPERAL AS
TOTAL PANCE	CATLEBOUT ON LOCATION	JOB START JOB PINISH
DATE 12-18-08 SEC. TWP. RANGE 24W	STEATEDED GOT 1 ON ECCYTON	14:30AL 5:30
	11/10	COUNTY STATE
WELL# 4 1- ROCATION M,	NNEOLA /CS SS	CANKIXS
OLD OR NEW Circle one)	it	
0 20 b 14 1	OWNER SAWE	
CONTRACTOR BUSINES	OWNER JAWE	
TYPE OF JOB 878 SURFACE	CEMENT _	,
HOLE SIZE /2// T.D. 7/3	$\frac{1}{2}$ AMOUNT ORDERED $\frac{24}{2}$	0 SK 60/40 8%
CASING SIZE FIFE 19 DEPTH // &	GEL 306CC 1/14	1 Elx SFAL
TUBING SIZE DEPTH DRILL PIPE DEPTH	(17) A 3%	C(2% GE(
		11/
TOOL DEPTH PRES. MAX Soo MINIMUM	COMMON_107D_A	@/51/5 1545 "
MEAS. LINE SHOE JOINT 5/	POZMIX	
CEMENT LEFT IN CSG.	GEL 25K	@2080 4/
PERFS.	CHLORIDE CC /1	_@ 5820 / 98 40
DISPLACEMENT C//	ASC	_@
EQUIPMENT		- [@]
	240 60/40/8°0	. , _
PUMPTRUCK CEMENTER 363		-@1 1 1 1 1 1 1 W
ullas live HELDED I/ 144/	FLO SEAL GO	_@ 1.50 / 50 ~
BULK TRUCK		@ @
# 239 DRIVER / RECT	EIVEL' ETON COMMISSION	
BULK TRUCK # 239 DRIVER FROM BULK TRUCK # (74) DRIVER MANAGEMENT	SATION S	
		-@240 89280
JAN	RVATION DAVISION AGE /OSK 24	223200
REMARKS: CONS	RVATION KS WICHITA, KS	TOTA 893/,80
	Micum	TOTAL COMPANY
Baeall Cine		
Baeall Oine	SERV	
	SERV	ICE
Baeall Oine	SERV DEPTH OF JOB	
Baeall Oine	SERV DEPTH OF JOB PUMP TRUCK CHARGE	ICE
Baeall Oine	SERV DEPTH OF JOB	776 018 cm
Baeall Oine	SERV DEPTH OF JOB PUMP TRUCK CHARGE EXTRA FOOTAGE 476 MILEAGE 60	776 776 1018 @ 85/4 404
Baeall Oine	SERV DEPTH OF JOB PUMP TRUCK CHARGE EXTRA FOOTAGE 476	776
Basall Cine My Lita 240511 mix 1005 A Bring Must poles of P Estat Wholin Circust to SURFACE That You	SERV DEPTH OF JOB PUMP TRUCK CHARGE EXTRA FOOTAGE 476 MILEAGE 60	1CE 776 1018
Basall Cine My Lita 240511 mix 1005 A Bring Must poles of P Estat Wholin Circust to SURFACE That You	SERV DEPTH OF JOB PUMP TRUCK CHARGE EXTRA FOOTAGE 476 MILEAGE 60	1CE 776 1018
CHARGE TO: BEREXCO INC	SERV DEPTH OF JOB PUMP TRUCK CHARGE EXTRA FOOTAGE 476 MILEAGE 60	1CE 776 1018
Basall Cine My Lita 240511 mix 1005 A Bring Must poles of P Estat Wholin Circust to SURFACE That You	SERV DEPTH OF JOB PUMP TRUCK CHARGE EXTRA FOOTAGE 476 MILEAGE 60	1CE 776 1018
My Lita 240511 My Lita 240511 Mix 1005 A Bring Mint - PISE CSM FOSAT Wholin Circust to SURFACE THANK YOU STREET STREET	DEPTH OF JOB PUMP TRUCK CHARGE EXTRA FOOTAGE 476 MILEAGE 60 MANIFOLD 4 HEAD	1CE 776 1018 018 018 020 020 020 020 1/3 020 1/3 020 TOTAL /955,60
My Lita 240511 My Lita 240511 Mix 1005 A Bring Mish Disp Com Land Mish Disp Com Ecsar Wish Circust D SURFACE Thank YOU STREET STREET	DEPTH OF JOB PUMP TRUCK CHARGE EXTRA FOOTAGE 476 MILEAGE 60 MANIFOLD 4 HEAD	1CE 776 1018
My Lita 240511 My Lita 240511 Mix 1005 A Bring Mint - PISE CSM FOSAT Wholin Circust to SURFACE THANK YOU STREET STREET	SERV DEPTH OF JOB PUMP TRUCK CHARGE EXTRA FOOTAGE 476 MILEAGE 60 MANIFOLD # HEAD PLUG & FLOR	TOTAL /955,60
My Lita 240511 My Lita 240511 Mix 1005 A Bring Mint - PISE CSM FOSAT Wholin Circust to SURFACE THANK YOU STREET STREET	DEPTH OF JOB PUMP TRUCK CHARGE EXTRA FOOTAGE 476 MILEAGE 60 MANIFOLD 4 HEAD	TOTAL 1955,60 TOTAL 1860
My Lita 240511 My Lita 240511 Mix 1005 A Bring Mint - PISE CSM FOSAT Wholin Circust to SURFACE THANK YOU STREET STREET	DEPTH OF JOB PUMP TRUCK CHARGE EXTRA FOOTAGE 476 MILEAGE 60 MANIFOLD + HEAD PLUG & FLORE CENTRACISE A AFO	TOTAL /955,60 TOTAL /955,60 AT EQUIPMENT
My Lita 248511 My Lita 248511 Mix 100 5 A Drop Must peles at 1 FEST Whetin Circust to SURGER THAT YOU CHARGE TO: BEREXCD //VC STREET CITY STATE ZIP	DEPTH OF JOB PUMP TRUCK CHARGE EXTRA FOOTAGE 476 MILEAGE 60 MANIFOLD # HEAD PLUG & FLOA (EN) MACIDE A GU, DE SASE	TOTAL 1955,60 TOTAL 1867 TOTAL 1867
My Lita 248511 2012 100 5 A Drop Must pelea at 1 Fesar Wholin Circ at the Surface Thank You CHARGE TO: BEREXCD //VC STREET CITY STATE ZIP To Allied Cementing Co., LLC.	DEPTH OF JOB PUMP TRUCK CHARGE EXTRA FOOTAGE 476 MILEAGE 60 MANIFOLD + HEAD PLUG & FLOA (EN) AACIDA AFO GU, DE SASE	TOTAL 1955,60 TOTAL 1867 TOTAL 1867
To Allied Cementing Co., LLC. You are hereby requested to rent cementing equipmen	DEPTH OF JOB PUMP TRUCK CHARGE EXTRA FOOTAGE 476 MILEAGE 60 MANIFOLD + HEAD PLUG & FLOA (EN) AACIDA AFO GU, DE SASE	TOTAL 1955,60 TOTAL 1867 TOTAL 1867
CHARGE TO: STATE	DEPTH OF JOB PUMP TRUCK CHARGE EXTRA FOOTAGE 476 MILEAGE 60 MANIFOLD + HEAD CENTAGUELL AFU GU, DE SASE TOP Plug	TOTAL 1955,60 TOTAL 1955,60 AT EQUIPMENT (a) 1/3
CHARGE TO: STATE	DEPTH OF JOB PUMP TRUCK CHARGE EXTRA FOOTAGE 476 MILEAGE 60 MANIFOLD # HEAD FLUG & FLOR GU, DE SASE TEXAS ATTE TOP Plug AS	TOTAL 1955,60 TOTAL 1867 TOTAL 1867
CHARGE TO: STATE ZIP To Allied Cementing Co., LLC. You are hereby requested to rent cementing equipmen and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work wa done to satisfaction and supervision of owner agent or	DEPTH OF JOB PUMP TRUCK CHARGE EXTRA FOOTAGE 476 MILEAGE 60 MANIFOLD # HEAD CENTAGRADA AFO GU, DE SASE TEXAS ATTE	TOTAL
CHARGE TO: STATE ZIP To Allied Cementing Co., LLC. You are hereby requested to rent cementing equipmen and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERA"	DEPTH OF JOB PUMP TRUCK CHARGE EXTRA FOOTAGE 476 MILEAGE 60 MANIFOLD + HEAD CENTACULA AFO GU, DE SASE TEXAS FATTE TOP Plug ASS TOP Plug ASS TOP Plug ASS TOP Plug TOP Plug	TOTAL
CHARGE TO: SEREXCO //VC STREET CITY STATE To Allied Cementing Co., LLC. You are hereby requested to rent cementing equipmen and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERA TERMS AND CONDITIONS" listed on the reverse signal of the contractor.	DEPTH OF JOB PUMP TRUCK CHARGE EXTRA FOOTAGE 476 MILEAGE 60 MANIFOLD + HEAD CENTACULA AFO GU, DE SASE TEXAS FATTE TOP Plug ASS TOP Plug ASS TOP Plug ASS TOP Plug TOP Plug	TOTAL
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BEREXCO, INC. DENTON # 1-15 NWNWNENE SECTION 15 T31S-R24W CLARK, KANSAS

KCC
JAN 1 5 2009
CONFIDENTIAL

GEOLOGIST WILLIAM B. BYNOG

RECEIVED KANSAS CORPORATION COMMISSION

JAN 2 9 2009

CONSERVATION DIVISION WICHITA, KS

RESUME

OPERATOR: BEREXCO, INC.

WELL NAME & NUMBER: DENTON # 1-15

LOCATION: SECTION 15 T31S-R24W

COUNTY: CLARK

STATE: KANSAS

SPUD DATE: 12-17-2008 COMPLETION DATE: 12-30-2008

ELEVATIONS: GL: 2549' KB: 2562'

CONTRACTOR: BEREDCO RIG 2

LOGS: LOG-TECH TYPES: DIL, DENSITY-NEUTRON,

MICROLOG & SONIC

ENGINEER: JOE CRATHORNE

WELLSITE ENGINEER: NONE

MUD COMPANY: MUD CO. MUD

MUD TYPE & ENGINEER: FRESH CHEMICAL: JODY DIETZ

GEOLOGIST: WILLIAM B.BYNOG

HOLE SIZE: 7 7/8

MUD LOGGING BY: NONE

DRILL STEM TEST COMPANY: TRILOBITE TESTING

DRILL STEM TEST: DST # 1 5482-5580'

WELL STATUS: PLUG & ABANDON

FORMATION TOPS

FORMATION	DEPTH (LOGS)		
STONE CORR AL	1524(+1029)		
STONE CORRAL TOPEKA	1524(+1038)		
35' ZONE			
PLATTSMOUTH			
HEEBNER	4524(-1962)		
TORONTO	` ,		
LANSING A	4707(-2145)		
B ZONE			
C/D			
F ZONE			
STARK	5099(-2537)		
H ZONE			
J ZONE			
K ZONE	5010(0(50)		
BKC	5212(-2650)		
MARMATON	5226(-2664)		
PAWNEE	5219(-2760)		
FORT SCOTT CHEROKEE	5353(-2791)		
MISSISSIPPIAN	5369(-2807)		
MISSISSIBLIAM	5563(-3001)		

SAMPLE DESCRIPTIONS

BREDCO RIG 1 DRILLING 7 7/8 HOLE

4480-96 SHALE gray, green, firm

4496-4508 LIMESTONE tan, very hard, dense

4508-12 SHALE black, firm, fissile, carbonaceous

4512-24 LIMESTONE tan, very hard, dense

HEEBNER

4524-30 SHALE black, firm, carbonaceous

4530-40 Shale gray, sme green, firm

4540-50 LIMESTONE buff,tan,very hard,dense,

4550-4600 Shale gray,dark gray,sme black,firm to hard,calcareous

4600-30 LIMESTONE cream, hard, micxln to dense, slightly chlky, rare poor to poor vuggy porosity, no s

4630-50 SHALE gray, green, firm, argillaceous, sme black, carbonaceous

4650-70 LIMESTONE white to cream, hard, slightly chlky, rare poor moldic oolitic porosity, no shows 4670-80 SHALE gray, green, sme black, firm to hard, pyritic 4680-90 LIMESTONE gray brown, brown, very hard, dense, slightly silty in part 4690-95 SHALE as above LANSING 4690-4712 LIMESTONE cream, hard, micxln, rare poor to poor vuggy porosity, no shows 4712-30 SHALE gray, green, sme black, firm, argillaceous 4730-60 LIMESTONE white, firm, very chlky, fossils in part, abundant calcite crystals, fine porosity, no st 4760-70 SHALE gray, green, firm, argillaceous 4770-4800 LIMESTONE as above, very chlky, no shows 4800-14 LIMESTONE tan, gray brown, hard to very hard, dense 4814-26 SHALE gray, green, firm, waxy

4840-80 LIMESTONE pale gray, firm, chlky, fossils, poor to trace fine vuggy porosity, sandy, no shows

4826-40 LIMESTONE gray brown, very hard, dense, sme Chert brown

4780-94 LIMESTONE tan, very hard, dense

4794-4906 LIMESTONE white, pale gray, firm, chlky, slightly fossils, poor porosity, abundant Chert gray

4906-20 SHALE gray, green, black, firm, fissile, carbonaceous

4920-30 LIMESTONE cream, sme pale gray, very hard, dense, crpxin

4930-35 SHALE gray, green, black, firm, fissile, waxy, slightly carbonaceous

4935-44 LIMESTONE white, firm, very chlky, micxln

4744-52 LIMESTONE cream, very hard, dense

4952-60 Shale gray, green, firm, fissile, waxy

4960-90 LIMESTONE cream, firm, very oolitic, chlky, fine moldic porosity, no shows

4990-5000 LIMESTONE cream,tan,hard,dense,sme Chert smky

5000-20 LIMESTONE white, firm, sandy, chalky, poor porosity, no shows

5020-40 LIMESTONE light brown, very hard, dense, crpxln

5040-50 LIMESTONE cream, firm, oolitic, granular texture, chlky

5050-94 LIMESTONE brown, very hard, dense, crpxln STARK 5094-5100 SHALE dark gray, black, firm, fissile, carbonaceous 5100-30 LIMESTONE gray brown, very hard, dense, granular texture, chlky, fossils in part 5130-50 Shale gray, green, firm, fissile 5150-60 LIMESTONE cream, firm, micxln, fossils, slightly chlky, poor to fine intxln and vuggy porosity 5160-5214 SHALE gray, green, firm, fissile and interbed LIMESTONE gray brown, hard, dense **MARMATON** 5214-40 LIMESTONE cream to tan, hard, micxln, poor porosity, no shows 5240-64 LIMESTONE tan, hard, dense 5254-70 SHALE gray, green as above 5270-80 LIMESTONE cream, very hard, dense

5280-90 LIMESTONE cream, firm, oolitic, chlky, slightly glauconitic, poor porosity, rare stain, poor cut

5290-5310 LIMESTONE cream, hard, fossils, micxln, poor porosity

5310-14 SHALE gray,green,black,firm,carbonaceous
PAWNEE
5314-30 LIMESTONE cream, firm, fossils, chlky, poor vis porosity, no shows
5330-44 LIMESTONE cream, very hard, dense
5344-50 SHALE black,green,firm,carbonaceous
FT. SCOTT
5350-64 LIMESTONE cream to tan,hard,crpxln
CHEROKEE
5364-75 SHALE green,gray,black,firm,carbonaceous
5375-90 LIMESTONE cream,hard,dense
5390-5410 SHALE as above / interbed LIMESTONE as above
F440 20 I IMESTONE group group brown hard migula poor garagity
5410-20 LIMESTONE cream,gray brown,hard,micxln,poor porosity
5420-30 SHALE gray,green,sme black,firm,fissile, carbonaceous
The state of the s
5430-40 LIMESTONE gray brown,tan,very hard,dense

5440-45 Shale green, black, firm, carbonaceous

5445-86 LIMESTONE gray brown, very hard, dense

5486-5500 SHALE black,firm,carbonaceous

5500-20 LIMESTONE gray brown, very hard, dense, ame Chert brown

5520-30 LIMESTONE tan, gray brown, hard, dense, slightly chlky, sme rare very fine grained sandy pcs, r

5530-55 SHALE rounded, green, yell, maroon, soft to firm, very argillaceous in part

MISSISSIPPIAN

5555-60 SANDSTONE white, firm to slightly hard, very fine grained, lime matrix, poor porosity, spotty sta

5560-70 SANDSTONE white,firm,very fine grained,wsrtd,poor to fine intg porosity,lime matrix,even s

5570-80 LIMESTONE white, firm, very sandy, oolitic in part, poor porosity, no shows

5580-5620 LIMESTONE as above, sandy, chlky, poor porosity

5620-40 LIMESTONE white, firm, chlky, sandy, fg, poor porosity, no shows

5640-80 LIMESTONE as above ,slightly galuconitic

RTD 5680

LTD 5686