Confidentiality Requested:
☑ 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
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 5263
Name: Midwestern Exploration Company
Address 1: 3500 S BOULEVARD STE 2B
Address 2:
City: EDMOND State: OK Zip: 73013 + 5487
Contact Person: Dale J. Lollar
Phone: (405) 340-4300
CONTRACTOR: License # 5929
Name: Duke Drilling Co., Inc.
Wellsite Geologist: Tom Williams
Purchaser: Valero Energy Corp/ONEOK Field Services

Designate Type of Completion:
☑ New Well ☐ Re-Entry ☐ Workover
☐ Oil ☐ WSW ☐ SWD
☐ Gas ☑ DH ☐ EOR
☐ OG ☐ GSW
☐ CM *(Coal Bed Methane)*
☐ Cathodic ☐ Other *(Core, Expl., etc.)*:

If Workover/Re-entry: Old Well Info as follows:
Operator:
Well Name:
Original Comp. Date: Original Total Depth:
☐ Deepening ☐ Re-perf. ☐ Conv. to EOR ☐ Conv. to SWD
☐ Plug Back ☐ Liner ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ EOR Permit #:
☐ GSW Permit #:

6/26/2018	7/3/2018	7/4/2018
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No.: 15-189-22854-00-00
Spot Description:
N2 - SW - NW - SW Sec. 6 Twp. 35 S. R. 35 ☐ East ☑ West
1740 Feet from ☐ North / ☑ South Line of Section
330 Feet from ☐ East / ☑ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☐ SE ☑ SW
GPS Location: Lat: *(e.g. xx.xxxxx)*, Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Stevens
Lease Name: TONY NIX Well #: 3-6
Field Name: Gooch
Producing Formation: Basal Chester
Elevation: Ground: 3014 Kelly Bushing: 3026
Total Vertical Depth: 6800 Plug Back Total Depth: 6800
Amount of Surface Pipe Set and Cemented at: 1700 Feet
Multiple Stage Cementing Collar Used? ☐ Yes ☑ No
If yes, show depth set: Feet
If Alternate II completion, cement circulated from:
feet depth to: w/ sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)
Chloride content: 1215 ppm Fluid volume: 360 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: Nichols Fluid Service
Lease Name: Johnson #3 License #: 31983
Quarter NW Sec. 16 Twp. 34 S. R. 32 ☐ East ☑ West
County: Seward Permit #: D27805

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: 07/25/2018
☐ **Confidential Release Date:** 07/24/2020
☐ **Wireline Log Received** ☐ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** Rene Stucky **Date:** 07/27/2018

Page Two

Operator Name: Midwestern Exploration Company Lease Name: TONY NIX Well #: 3-6

Sec. 6 Twp. 35 S. R. 35 ☐ East ☑ West County: Stevens

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 ☐ Yes ☑ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☑ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

Geologist Report / Mud Logs ☑ Yes ☐ No

List All E. Logs Run:

Phased Induction - Shallow Focus SP log
Compensated Neutron PEL Density Micro Log
Compensated Sonic Log

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Attached	Attached	Attached

CASING RECORD ☑ New ☐ Used
Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Conductor	30	20	52	62	4000#	296	n/a
Surface	12.25	8.625	24	1700	Class A	680	4% Gel/1/2#sx Cello.

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
____ Perforate ____ Protect Casing ____ Plug Back TD ____ Plug Off Zone	-			
	-			

1. Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☑ No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? ☐ Yes ☐ No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection: 03/07/2018

Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☑ Other *(Explain)* None

Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Water	Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☑ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*

PRODUCTION INTERVAL:

Top	Bottom
1700	6800

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*

TUBING RECORD: Size: Set At: Packer At:

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Midwestern Exploration Company
Well Name	TONY NIX 3-6
Doc ID	1415772

Tops

Name	Top	Datum
BASE HEEBNER	4328	-1302
TORONTO LIME	4338	-1312
LANSING LIME	4444	-1418
MARMATION LIME	5218	-2192
CHEROKEE SHALE	5586	-2560
ATOKA LIME	5764	-2738
MORROW SHALE	5940	-2914
LWR MORROW LIME	6256	-3230
CHESTER C LIME	6335	-3309
STE GENEVIEVE	6683	-3557
ST LOUIS	6688	-3662

Form	ACO1 - Well Completion
Operator	Midwestern Exploration Company
Well Name	TONY NIX 3-6
Doc ID	1415772

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Conductor	30	20	52	62	4000#	296	n/a
Surface	12.25	8.625	24	1700	Class A	680	4% Gel/1/2#sx Cello.

PRJ1008345

FIELD TICKET

Client	MIDWESTERN EXPLORATION COMPANY
Well	Tony Nix 3-6
Job Description	Plug & Abandon
Print Date	July 05, 2018

Field Ticket # FT-08436-J4Y4Z50202-14757

Field Ticket #	FT-08436-J4Y4Z50202-14757	**Credit Approval #**	
Client	MIDWESTERN EXPLORATION COMPANY 3500 S BOULEVARD, STE. 2B, Edmond, 73013	**Purchase Approval #**	
		Invoice #	

Field Rep	Victor Corona-Marta	**Well**	Tony Nix 3-6
Field Client Rep	Billy Daughrty	**Well API #**	15-189-22854
District	Liberal, KS	**County**	Stevens
Job Type	Plug & Abandon	**State/Province**	KS
Job Depth (ft)	3,200.00	**Field**	
Gas Used On Job	No	**Lease**	

FIELD TICKET

Client	MIDWESTERN EXPLORATION COMPANY
Well	Tony Nix 3-6
Job Description	Plug & Abandon
Print Date	July 05, 2018

Field Ticket # FT-08436-J4Y4Z50202-14757

MATERIALS

Product Code	Description	UOM	Quantity	List Price	Gross Amount	Disc (%)	Net Amount
L488168	CEMENT, ASTM TYPE I	SK	103.0000	$44.11	$4,543.33	50.00	$2,271.67
L100317	CEMENT, FLY ASH (POZZOLAN)	SK	69.0000	$25.68	$1,771.92	50.00	$885.96
L100120	EXTENDER, BENTONITE	LB	589.0000	$2.08	$1,225.12	50.00	$612.56
L100295	IntegraSeal CELLO	LB	43.0000	$5.76	$247.68	50.00	$123.84
			Product Material Subtotal:		**$7,788.05**		**$3,894.03**

SERVICES

Product Code	Description	UOM	Quantity	List Price	Gross Amount	Disc (%)	Net Amount
S-100004	Cement Crew Mobilization-Demobilizaton Fee	EA	1.00	$10,880.00	$10,880.000	84.00	$1,740.800
S-100049	Cement pump charge, 1,001-2,000 feet/ 301-600 m	4/HR	1.00	$4,680.00	$4,680.000	84.00	$748.800
S-100066	Cement pump charge, Additional Hours	HR	0.00	$2,720.00	$0.000	0.00	$0.000
S-100001	Mileage - vehicle heavy weight	MI	50.00	$18.96	$948.000	84.00	$151.680
S-100002	Mileage - vehicle light weight	MI	50.00	$10.72	$536.000	84.00	$85.760
				Service Subtotal:	**$17,044.00**		**$2,727.04**

FIELD TICKET

Client	MIDWESTERN EXPLORATION COMPANY
Well	Tony Nix 3-6
Job Description	Plug & Abandon
Print Date	July 05, 2018

Field Ticket # FT-08436-J4Y4Z50202-14757

FIELD ESTIMATES

TOTAL GROSS AMOUNT	$24,832.050
TOTAL % DISC	73.337%
TOTAL NET AMOUNT	$6,621.070

Arrive Location

Client Rep.

Service Order

I authorize work to begin per service instructions in accordance with the terms and conditions printed on the following pages of this form and represent that I have authority to accept and sign this order.

Service receipt

I certify that the materials and services listed were received and all services performed in a workmanlike manner.

BJ REPRESENTATIVE

Victor Corona-Marta

CLIENT AUTHORIZED AGENT

Billy Daughrty

MIDWESTERN EXPLORATION COMPANY

Tony Nix 3-6

Plug & Abandon

15-189-22854

Stevens, KS

July 05, 2018

Cementing Plan

Prepared For		**Prepared by**	
Client Contact		Quote Writer	Kevin Aldridge
Title		Title	Sales Engineer
Company	MIDWESTERN EXPLORATION COMPANY	Bus Phone	+1 (405) 5612803 x6310
Bus Phone		Email	Kevin.Aldridge@bjservices.com
Email		Mobile	405-423-6862
Mobile			

Service Point		**Service Representatives**	
District	Liberal, KS	Account Rep	Kevin Aldridge
		Title	Sales Engineer
		Bus Phone	+1 (405) 5612803 x6310
		Email	Kevin.Aldridge@bjservices.com
		Mobile	405-423-6862

Operator Name	MIDWESTERN EXPLORATION COMPANY		
Well	Tony Nix 3-6		
Date	05 July, 2018	**Plan #**	ORD-08436-J4Y4Z5

JOB AT A GLANCE

Zone	PTA
Job Code	Plug & Abandon
Depth (TVD) (ft)	4500.00
Depth (MD) (ft)	4500.00
Hole Size (in)	7.875
Casing Size (in)/Weight (lb/ft)	
Pump Via	Tubing
Total Mix Water Required (gals)	1,179.000

Cement Fluids

Fluid	Volume (bbls)	Density (ppg)	Yield (Cu Ft/sk)
PLUG SLURRY : 60/40/4	43.30	13.8000	1.4259

Operator Name	MIDWESTERN EXPLORATION COMPANY		
Well	Tony Nix 3-6		
Date	05 July, 2018	**Plan #**	ORD-08436-J4Y4Z5

WELL DATA

Inner/Outer Geometry

Type	OD (in)	ID (in)	Weight (lbs/ft)	MD (ft)	TVD (ft)	Excess (%)	Grade
Previous Casing	8.625	8.097	24.000	250.000	250.000		
Open Hole		7.875		4,500.000	4,500.000		
Tubing	2.875	2.441	6.400	1,740.000	1,740.000		

Landing Collar Depth (ft)	1,740.00
Mud Density (ppg)	
Mud Type	
Estimated Static Temp (°F)	111.50
Estimated Circulating Temp (°F)	97.00

VOLUME CALCULATIONS

4250.000 ft x 0.29315 cf/ft with 0 % excess = 1245.888 cf
250.000 ft x 0.31249 cf/ft with 0 % excess = 78.122 cf
0 ft x 0.03250 cf/ft with 0 % excess = 0.000 cf

TOTAL SLURRY VOLUME = 1325 cf

Operator Name MIDWESTERN EXPLORATION COMPANY

Well Tony Nix 3-6

Date 05 July, 2018

Plan # ORD-08436-J4Y4Z5

FLUID SPECIFICATIONS

Fluid	Density (ppg)	Yield (Cu Ft/sk)	Planned Top of Fluid (Ft)	Length (Ft)	Vol. (Cu Ft)	Vol. (sks)	Vol. (bbls)
PLUG SLURRY : 60/40/4	13.8000	1.4259		0.00	243.00	171	43.30

CEMENT, FLY ASH (POZZOLAN), 40.0000 PCT

CEMENT, ASTM TYPE I, 60.0000 PCT

IntegraSeal CELLO, 0.2500 LBS/SK

EXTENDER, BENTONITE, 4.0000 BWOB

Operator Name	MIDWESTERN EXPLORATION COMPANY		
Well	Tony Nix 3-6		
Date	05 July, 2018	**Plan #**	ORD-08436-J4Y4Z5

CEMENT PROPERTIES

	Tail Slurry
Slurry Weight (ppg)	13.8000
Slurry Yield (Cu Ft/sk)	1.4259
Amount of Mix Water (gals/sk)	6.89
Amount of Mix Fluid (gals/sk)	6.89
Estimated Pumping Time - 70 BC (HH:MM)	
Free Water @ 90° Angle	@
Free Water @ 45° Angle	@
Fluid Loss	

Operator Name	MIDWESTERN EXPLORATION COMPANY		
Well	Tony Nix 3-6		
Date	05 July, 2018	**Plan #**	ORD-08436-J4Y4Z5

Notes

- Circulating Equipment (S-100072) - will be added to the field receipt if requested prior to the job - $839.68

- Derrick Charge (S-100280) – will be added to the field receipt if the landing joint is more than 10' above the rig floor – $178.94

- The above pricing is applicable for up to 4/6/8 hours on location based on depth of job. After assigned hours, the following charges will apply:
- Cement Pumping, additional hours (S-100066) = $435.2 per hour

Plugging Orders:

1st Plug 1740' 50SK
2nd Plug 720' 40SK
3rdPlug 60' 30SK
RAT 30SK
MOUSE 20SK

PRICE ESTIMATES

Product Materials

Product	Quantity	UOM	Unit Price	Gross Amount	Discount (%)	Net Amount
EXTENDER, BENTONITE	589.0000	LB	$2.080	$1,225.120	50.000	$612.560
IntegraSeal CELLO	43.0000	LB	$5.760	$247.680	50.000	$123.840
CEMENT, ASTM TYPE I	103.0000	SK	$44.110	$4,543.330	50.000	$2,271.665
CEMENT, FLY ASH (POZZOLAN)	69.0000	SK	$25.680	$1,771.920	50.000	$885.960
			Product Material Subtotal:	**$7,788.05**		**$3,894.03**

Service Charges

Service	Quantity	UOM	Unit Price	Gross Amount	Discount (%)	Net Amount
Cement Crew Mobilization-Demobilizaton Fee	1.0000	EA	$10,880.000	$10,880.000	84.000	$1,740.800
Cement pump charge, 1,001-2,000 feet/ 301-600 m	1.0000	4/HR	$4,680.000	$4,680.000	84.000	$748.800
Cement pump charge, Additional Hours	0.0000	HR	$2,720.000	$0.000		$0.000
Mileage - vehicle heavy weight	50.0000	MI	$18.960	$948.000	84.000	$151.680
Mileage - vehicle light weight	50.0000	MI	$10.720	$536.000	84.000	$85.760
			Service Subtotal:	**$17,044.00**		**$2,727.04**
			TOTALS	**$24,832.05**	**73.34**	**$6,621.07**

Client will be charged for all 'SPECIAL PROPPANTS' delivered to location, whether they are pumped or not. All proppants

other than standard grade frac sand are considered 'SPECIAL PROPPANTS'.
The technical data contained in this proposal is based on the best information available at the time of writing and is subject to further analysis and testing. The pricing data contained in this proposal are estimates only and may vary depending on the work actually performed. Pricing does not include federal, state and local taxes or royalties.
This quotation is based on BJ services being awarded the work on a first call basis and within thirty (30) days of the proposal date. These prices will be subject to review if the work is done after thirty (30) days from the proposal date, or on a second or third call basis.

BJ SERVICES TERMS & CONDITIONS

All work orders for services ("Services" or "Work") and purchase orders for the supply of products or chemicals ("Products") (collectively, "Work Orders") to be provided in the United States and/or Canada by BJ Services, LLC or its subsidiaries or affiliates (collectively "BJ") to its customers (each a "Customer") are subject to acceptance by BJ, and any Work Orders so accepted will be governed by the pricing proposal, the Work Order, and these Terms and Conditions, unless the Customer and BJ (collectively the "Parties") have executed a Master Service Agreement, which terms shall control.

1. PAYMENT TERMS

Unless alternate payment terms are specified or approved by the BJ Credit Department, all charges billed by BJ must be paid within thirty (30) days of the date of invoice. For invoices, unpaid after thirty (30) days, discounts from list price may be revoked, interest may be charged at the rate of ten percent (10%) per annum or the maximum legal rate, liens and security interests may be filed and registered, and Customer shall pay BJ all costs of collection, including reasonable attorneys' fees and court costs, in addition to other amounts due. Operating, production or well conditions that prevent satisfactory operation of Services or Products do not relieve Customer of its payment responsibility. BJ reserves the right to require payment COD based on credit review at time of Work.

2. CANCELLATION AND RETURNS

A. Products: Product Orders may only be cancelled with written authorization from BJ. Customer may be charged a restocking charge of twenty-five percent (25%), plus any packing and transportation costs incurred. Products specially manufactured to Customer specifications, or orders for substantial quantities may not be cancelled. Delivered Products may only be returned for credit (less the restocking fee and transport costs) in unused, reusable condition, in original unopened containers.

B. Services: In the event Customer cancels an order for Services without cause, Customer shall be liable for all reasonable costs incurred by BJ including mobilization/demobilization.

3. THIRD-PARTY CHARGES, TAXES

Customer shall pay all third-party charges, in compliance with BJ's current price list, and any sales, use, rental or other taxes that may be applicable. Customer shall pay all applicable customs, excise, import and other duties unless otherwise agreed in writing by BJ. Customer shall provide necessary import licenses and extensions.

4. INDEPENDENT CONTRACTOR

It is expressly understood that BJ is an independent contractor, and that neither BJ nor its principals, partners, shareholders, members, directors, officers, employees or subcontractors are servants, agents or employees of Customer. Where BJ provides Services in Louisiana, the Services provided by BJ and its subcontractors are an integral part of, and are essential to the ability of Customer to generate Customer's goods, products, and services, and therefore BJ and Customer agree that Customer is the statutory employer of BJ's employees and its subcontractor's employees under La. R.S. 23:1061 (A) (3).

5. LIABILITIES, RELEASES AND INDEMNIFICATION:

A. In these Terms and Conditions (i) "BJ Group" means BJ, its subsidiary and affiliated companies; its subcontractors at any tier; and the officers, directors, employees, consultants, and agents of all of the foregoing; (ii) "Claims" means all claims, demands, causes of action, liabilities, damages, judgments, fines, penalties, awards, losses, costs, expenses (including, without limitation, attorneys' fees and costs of litigation) of any kind or character arising out of, or related to, the performance of the Services or Products provided; (iii) "Consequential Damages" means any indirect, special, punitive, exemplary or consequential damages or losses under applicable law; (iv) "Customer Group" means Customer, its parent, subsidiary and affiliated or related companies; its co-lessees, co-owners, partners, joint operators and joint ventures; its client or customer if it is not the end user of the Services or Products; its other contractors at any tier; and the officers, directors, employees, consultants, and agents of all of the foregoing; (v) "Pollution Claims" means all Claims relating to pollution or contamination of water, land, or air, including without limitation, adverse effects on the environment or any form of property, or any violation or alleged violation of environmental statutes, ordinances, laws, orders, rules and regulations; (vi) "Tools" means any of BJ Group's instruments, equipment, or tools, and (vii) "Waste" means any cuttings, muds, waste, water, or materials from the well that where Services are performed by BJ.

B. BJ SHALL RELEASE, INDEMNIFY, DEFEND AND HOLD CUSTOMER GROUP HARMLESS FROM AND AGAINST ANY AND ALL CLAIMS ARISING OUT OF OR RELATED TO (I) PERSONAL OR BODILY INJURY, ILLNESS, SICKNESS, DISEASE OR DEATH OF ANY MEMBER OF BJ GROUP, AND (II) LOSS, DAMAGE OR DESTRUCTION OF REAL OR PERSONAL PROPERTY, WHETHER OWNED, LEASED, OR CHARTERED, OF ANY MEMBER OF BJ GROUP.

C. CUSTOMER SHALL RELEASE, INDEMNIFY, DEFEND AND HOLD BJ GROUP HARMLESS FROM AND AGAINST ANY AND ALL CLAIMS ARISING OUT OF OR RELATED TO (I) PERSONAL OR BODILY INJURY, ILLNESS, SICKNESS, DISEASE OR DEATH OF ANY MEMBER OF CUSTOMER GROUP, AND (II) LOSS, DAMAGE OR DESTRUCTION OF REAL OR PERSONAL PROPERTY WHETHER OWNED, LEASED, OR CHARTERED, OF ANY MEMBER OF CUSTOMER GROUP.

D. SUBJECT TO THE PERSONAL INJURY PROVISIONS OF ARTICLE 5(B) ABOVE, BJ SHALL PROTECT, DEFEND AND INDEMNIFY CUSTOMER GROUP FROM AND AGAINST ALL CLAIMS, DEMANDS AND CAUSES OF ACTION, INCLUDING POLLUTION CLAIMS, ARISING FROM POLLUTION OR CONTAMINATION WHICH ORIGINATES ABOVE THE SURFACE OF THE LAND OR WATER AND IS DIRECTLY ASSOCIATED WITH BJ GROUP'S EQUIPMENT OR OTHER QUIPMENT IN ITS CONTROL, AND SHALL ASSUME ALL RESPONSIBILITY FOR CONTROL AND REMOVAL OF SAME.

E. SUBJECT TO THE PERSONAL INJURY PROVISIONS OF 5(C) ABOVE, CUSTOMER SHALL PROTECT, DEFEND AND INDEMNIFY BJ GROUP FROM AND AGAINST ALL CLAIMS, DEMANDS, AND CAUSES OF ACTION ARISING DIRECTLY OR INDIRECTLY FROM ANY EXISTING POLLUTION AT THE SITE AND FROM ALL OTHER POLLUTION OR CONTAMINATION, INCLUDING BUT NOT LIMITED TO POLLUTION RESULTING FROM FIRE, BLOWOUT, CRATERING, SEEPAGE OR OTHER UNCONTROLLED FLOW OF OIL, GAS, OR

OTHER SUBSTANCE; OR RELATED TO THE TRANSPORTATION, STORAGE, TREATMENT, DISPOSAL OR HANDLING OF WASTE, AND SHALL ASSUME ALL RESPONSIBILITY FOR CONTROL AND REMOVAL OF SAME.

F. NOTWITHSTANDING ANYTHING TO THE CONTRARY HEREIN, CUSTOMER SHALL RELEASE, PROTECT, DEFEND, AND INDEMNIFY BJ GROUP FROM AND AGAINST ALL CLAIMS, DEMANDS, AND CAUSES OF ACTION OF EVERY KIND AND CHARACTER, IN THE EVENT OF CATASTROPHIC LOSSES INCLUDING BUT NOT LIMITED TO: (I) LOSS OR DAMAGE TO A HOLE(S) OR WELL(S), INCLUDING ITS CASING, (II) LOSS OR DAMAGE TO ANY GEOLOGICAL FORMATION, STRATA OR OIL OR GAS RESERVOIR OR MINERAL OR WATER RESOURCE,

(III) IMPAIRMENT OF PROPERTY RIGHTS OR OTHER INTERESTS IN OR TO LAND, OIL, GAS, MINERAL, OR WATER RESOURCES, OR THE QUIET ENJOYMENT THEREOF, (IV) SUBSURFACE TRESPASS,

(V) DAMAGE FROM ANY RADIOACTIVE SOURCES AND (VI) REGAINING CONTROL OF ANY WILD WELL OR OUT OF CONTROL WELL, UNDERGROUND OR ABOVE THE SURFACE, INCLUDING REMOVAL OF WRECK AND DEBRIS, EMEDIATING ENVIRONMENTAL DAMAGEAND ALL COSTS RELATED THERETO.

G. CUSTOMER SHALL RELEASE, DEFEND, INDEMNIFY AND HOLD BJ GROUP HARMLESS FROM AND AGAINST ANY CLAIMS FOR CONSEQUENTIAL DAMAGES ASSERTED BY OR IN FAVOR OF ANY MEMBER OF CUSTOMER GROUP. BJ SHALL RELEASE, DEFEND, INDEMNIFY AND HOLD CUSTOMER GROUP HARMLESS FROM AND AGAINST ANY CLAIMS FOR CONSEQUENTIAL DAMAGES ASSERTED BY OR IN FAVOR OF ANY MEMBER OF BJ GROUP.

H. THE EXCLUSIONS OF LIABILITY, RELEASES AND INDEMNITIES SET FORTH IN THIS ARTICLE 5 APPLY TO ANY CLAIM(S) WITHOUT REGARD TO THE CAUSE(S) THEREOF, INCLUDING BUT NOT LIMITED TO PRE-EXISTING CONDITIONS, WHETHER SUCH CONDITIONS BE PATENT OR LATENT, THE UNSEAWORTHINESS OF ANY VESSEL OR VESSELS, IMPERFECTION OF MATERIAL, DEFECT OR FAILURE OF PRODUCTS OR EQUIPMENT, BREACH OF REPRESENTATION OR WARRANTY (EXPRESS OR IMPLIED), ULTRAHAZARDOUS ACTIVITY, STRICT LIABILITY, TORT, BREACH OF CONTRACT, BREACH OF DUTY (STATUTORY OR OTHERWISE), BREACH OF ANY SAFETY REQUIREMENT OR REGULATION, OR THE NEGLIGENCE, GROSS NEGLIGENCE, OR OTHER LEGAL FAULT OR RESPONSIBILITY OF ANY PERSON, PARTY, OR ENTITY (INCLUDING THE INDEMNIFIED OR RELEASED PARTY), WHETHER SUCH FORM OF NEGLIGENCE BE SOLE, JOINT OR CONCURRENT, ACTIVE OR PASSIVE.

6. INSURANCE

Each Party agrees to support the indemnity obligations contained in Article 5 by carrying insurance (or qualified self-insurance) with reputable insurance companies in the following minimum amounts:

A. Workers' Compensation Insurance complying with applicable state, provincial and federal laws, and Employers' Liability Insurance in the amount of $1,000,000 each accident for bodily injury by accident/$1,000,000 each employee for bodily injury by disease/ $1,000,000 policy limit.

B. Commercial General Liability Insurance, including Products and Completed operations aggregate, sudden and accidental pollution (which may be provided for in a separate policy), in the amount of $1,000,000 combined single limit per occurrence/$2,000,000 in the aggregate.

C. Automobile Liability Insurance in the amount of $1,000,000 combined single limit for Bodily Injury and property Damage, including coverage for all owned, hired, and non-owned vehicles.

D. Excess Liability Insurance over that required in A (for Employer's Liability only), B and C in the minimum amount of $5,000,000 each occurrence and in the aggregate, specifically including contractual liability coverage.

Upon written request, each party shall furnish to the other party certificates of insurance evidencing that adequate insurance to support each party's obligations has been secured. To the extent of each party's release and indemnity obligations, each party agrees that all such insurance policies shall (i) be primary to the other party's insurance, (ii) include the other party, its parent, subsidiary and affiliated or related companies, its subcontractors and other contractors, and its and their respective officers, directors, employees, consultants and agents as additional insured, and (iii) be endorsed to waive subrogation against the other party, its parent, subsidiary and affiliated or related companies, its subcontractors and other contractors, and its and their respective officers, directors, employees, consultants and agents.

7. CONFIDENTIALITY

Each party shall maintain all data and information obtained from the other party in strict confidence, subject only to disclosure required by law or legal process. The design, construction, application and operation of BJ's Services and Products embody proprietary and confidential information. Customer shall maintain this information in strict confidence and shall not disclose it to others, subject only to disclosure required by law or legal process.

8. ACCESS TO WELL AND WELL SITE STORAGE

Customer shall provide at its expense adequate access to and from the well site, and shall obtain all permits, licenses or other authorization required for BJ to enter upon work areas for the purposes contemplated. Customer shall provide proper storage space at the well site, meeting all applicable safety and security requirements and consistent with good industry practices, for the Tools and Products, including, without limitation, all radioactive materials. BJ reserves the right not to perform Work if the job or conditions of the location render such performance inadvisable.

9. STANDARD OF PERFORMANCE

A. Services: BJ warrants (i) that all Services shall be performed in compliance with all laws, rules and regulations (including all safety codes, statutes, regulations, precautions, and procedures) and utilizing all necessary Protective equipment and devices, (ii) that all Services shall be done with the utmost skill, care and diligence, in a good and workmanlike manner, in accordance with the terms hereof, the specifications set forth in the applicable Order, and good industry standards of performance and in a timely manner; and (iii) that BJ, its subcontractors and their employees are sufficiently experienced and suitably trained to perform the Services. In the event that the Services fail to conform to such specifications, BJ shall re-perform that part of the non-conforming Services, provided BJ is notified in writing by Customer prior to demobilization.

B. Products: BJ warrants that the Products shall conform to BJ's published specifications or the specifications agreed to in writing. If any of the Products fail to conform, BJ shall repair or replace the non-conforming Products, or issue credit to the Customer. In the event BJ is requested to develop, manufacture, test or use Products that are intended to satisfy a unique need identified by Customer and are not

"standard" Products of BJ ("Specialty Products"), Customer recognizes and agrees that Specialty Products may not have or contain the same or similar characteristics as BJ's standard Products, including historical performance against which future performance can be measured. In developing, manufacturing, testing and using any Specialty Product, BJ will be relying upon information and specifications provided by Customer regarding its unique needs, and will have no responsibility for the design, manufacture or engineering of any such Specialty Product. Upon inspection, if the Specialty Product fails to meet the specifications agreed to in writing by Customer, then BJ shall, at its option, repair or replace the non-conforming specialty Products with the type originally furnished to Customer or substitute with standard Products. BJ's warranty obligations are non-transferrable and void if the non-conformity were caused by (i) Customer's failure to properly store or maintain the Products, (ii) abnormal well conditions, abrasive materials, corrosion due to aggressive fluids or incorrect specifications provided by Customer, (iii) unauthorized alteration of the Products, (iv) loss or damage while on Customer's site due to any negligence, vandalism or force majeure, or (v) use or handling by Customer in a manner inconsistent with BJ's recommendations.

Further, BJ's warranty obligations shall terminate if Customer fails to perform its obligations under these Terms and Conditions. All transportation charges and removal and reinstallation charges related to the repair or replacement of non-conforming Products shall be borne by Customer, including shipment to BJ's facility.

C. Goods: BJ shall assign any vendor or supplier's warranty to Customer for any Products or goods purchased, to the extent such warranties are assignable.

D. Recommendations: Interpretations, research, analysis, recommendations, advice or interpretational data (specifically including, without limitation, any engineering designs, geological studies or analyses, well programs, reservoir models, production optimization or management programs) ("Recommendations") furnished by BJ are opinions based upon models, production optimization or management programs) ("Recommendations") furnished by BJ are opinions based upon inferences from measurements, empirical relationships and assumptions, and industry practice. The inferences, assumptions and practices are not infallible, and with respect to which professional geologists, engineers, drilling consultants, and analysts may differ. Accordingly, BJ does not warrant the accuracy, correctness, or completeness of any interpretations or Recommendations, or that reliance on its interpretations and/or Recommendations will accomplish any particular results. CUSTOMER ASSUMES FULL RESPONSIBILITY FOR THE USE OF SUCH RECOMMENDATIONS AND FOR ITS DECISIONS. OTHER THAN THE PROVISIONS IN THIS ARTICLE 9, BJ MAKES NO WARRANTY OR GUARANTEE OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING NO IMPLIED WARRANTY OF RCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE REGARDING ANY SERVICES, EQUIPMENT OR PRODUCTS. IN NO EVENT SHALL BJ BE LIABLE FOR CONSEQUENTIAL DAMAGES INCURRED BY CUSTOMER GROUP AS A RESULT OF DEFECTIVE OR NON-CONFORMING SERVICES, EQUIPMENT OR PRODUCTS.

10. INTELLECTUAL PROPERTY

A. BJ intends to protect its intellectual property. Customer shall not resell the Products (or drawings related thereto) to others or reverse engineer or permit others to reverse engineer for the purpose of manufacturing similar Products. BJ owns and has legal rights to practice certain copyrights, trademarks, industrial designs, patents or pending applications on certain technology and items related to the Services or Products furnished. In the vent that BJ makes any improvements on such technology, then BJ shall own all such improvements, including drawings, specifications, calculations and other documents.

B. BJ warrants that the use or sale of Products will not infringe valid patents of others by reason of the use or sale of such Products, and hereby agrees to RELEASE, DEFEND, INDEMNIFY AND HOLD CUSTOMER GROUP HARMLESS FROM AND AGAINST ALL CLAIMS for infringement of any such patent, provided that Customer shall promptly notify.

BJ in writing upon receipt of any claim for infringement, or upon the filing of any such suit for infringement, whichever first occurs, and shall afford BJ full opportunity, at BJ's option and expense, to answer such claim or threat of suit, assume the control of the defense of such suit, and settle or compromise same in any way BJ sees fit. BJ does not warrant that such Products: (i) will not infringe any such patent when not of BJ's manufacture, or specially made, in whole or in part, to the Customer's design certifications; or (ii) if used or sold in combination with other materials or apparatus or used in the practice of processes, will not, as a result of such combination or use, infringe any such patent, and BJ shall not be liable; AND CUSTOMER SHALL RELEASE, DEFEND, INDEMNIFY AND HOLD BJ HARMLESS FOR DAMAGES OR LOSSES OF ANY NATURE HATSOEVER RESULTING FROM ALLEGED PATENT INFRINGEMENT ARISING PURSUANT TO (I) AND (II) ABOVE.

11. FORCE MAJEURE

If either party is unable because of Force Majeure to carry out any of its obligations under these Terms and Conditions, other than obligations to pay money, then on such party giving notice and particulars in writing to the other party within a reasonable time after the occurrence of the cause relied upon, such obligations shall be suspended. "Force Majeure" shall include any event that is beyond the reasonable control of the party so affected including, without limitation, acts of God, laws and regulations, government action, war, civil disturbances, hijack, piracy, criminal action by a third party, threats or acts of terrorism, strikes and labor problems, delays of vendors or carriers, lightening, fire, flood, washout, storm, breakage or accident to equipment or machinery, and shortage of raw materials. If any suspension due to Force Majeure exceeds ten (10) consecutive days, either party may terminate these Terms and Conditions by written notice to the other party and Customer shall be liable for demobilization and any other reasonable costs incurred by BJ incidental to such termination.

12. LAWS, RULES, REGULATIONS, AND EXPORT CONTROL

BJ and Customer agree to comply with all laws, rules, regulations and decrees of any governmental or regulatory body having jurisdiction over the Services or Products to be provided by BJ or the work site or that may otherwise be applicable to BJ's or Customer's performance under these Terms and Conditions Services and Products and/or related technical data covered by these Terms and Conditions may be subject to U.S., Canadian and/or foreign trade controls. Customer agrees that it will not sell, re-export or transfer Products and/or related technical data except in full compliance with all governmental requirements including but not limited to economic sanctions and export controls administered by the U.S. Department of Treasury, U.S. Department of Commerce and U.S. Department of State.

Operator Name MIDWESTERN EXPLORATION COMPANY

Well Tony Nix 3-6

Date 05 July, 2018 **Plan #** ORD-08436-J4Y4Z5

Customer agrees to comply with all BJ requests for trade compliance information, statements, and other assurances including, without limitation, requests for End-User and Routed Transaction certifications. BJ reserves the right to refuse to fulfill any Work Order or otherwise perform under these Terms and Conditions if BJ in its sole discretion determines that such action may violate any law or regulation.

13. GOVERNING LAW, JURY WAIVER, AND VENUE

For all Work performed on a worksite within the United States of America, this MSA shall be exclusively governed by the laws of the State of Texas, without regard to any choice of laws or conflicts of law provisions. Venue shall lie exclusively in the state or federal courts of Harris County, Texas and Customer consents to personal jurisdiction therein. In the event Texas law cannot be applied to such Work, the law of the state where the Work was performed will govern.

For all Work performed on a worksite within Canada, this MSA shall be construed and the legal relations determined in accordance with the laws of the Province of Alberta. The Parties agree to submit to binding arbitration in Calgary, Alberta, Canada. Each Party waives any objection that the designed courts above are an inconvenient forum or venue.

References in these Terms and Conditions to any act, law, statute, rule, or regulation shall be deemed to include references to such as the same may be amended, replaced, or reenacted from time to time.

EACH PARTY WAIVES, TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, ANY RIGHT IT MAY HAVE TO A TRIAL BY JURY IN RESPECT TO ANY ACTION, CLAIM, SUIT OR PROCEEDING ARISING OUT OF OR RELATING TO THESE TERMS AND CONDITIONS.

14. ASSIGNMENT

BJ shall have the right to assign these Terms and Conditions to any of its affiliated companies without the consent of Customer.

15. GENERAL

Failure of either party to enforce any of these Terms and Conditions shall not be a waiver of the right to enforce. These Terms and Conditions contain all representations of the Parties and supersedes all prior oral or written agreements or representations and may only be amended by an agreement executed by both Parties. In the event of conflict between the provisions of these Terms and Conditions and any other terms in Customer's purchase orders, field work orders, work tickets, invoices, statements, or any other type of memoranda or other documents used by Customer, whether oral or written, the provisions of these Terms and Conditions shall govern.

CUSTOMER SIGNATURE:

Name:

Title:

Date:

Company:

Address:

EVENT LOG

Service Line Cementing

Client MIDWESTERN EXPLORATION COMPANY

District Liberal, KS

Quotes: QUO-13270-D9W1L4

Plans: ORD-07952-S7S2X1

Executions: EXC-07952-S7S2X102

Seq.	Well	Job Type	BJ Sup.	BJ Eng.	Start Dt./Time	End Dt./Time	Duration	Category	Event	Equipment	Density (ppg)	Pump Rate(bpm)	Pump Vol(bbls)	Pipe Pressure(psi)	Comments	Sync
1	Tony Nix 3-6	Surface	Edgar Rodriguez	Kevin Aldridge	06/27/2018 13:00:00	06/27/2018 13:15:00	0.25	Mobilization	Arrive on Location						ARRIVE TO LOCATION	
2	Tony Nix 3-6	Surface	Edgar Rodriguez	Kevin Aldridge	06/27/2018 13:15:00	06/27/2018 13:30:00	0.25	Operational	Spot Units						SPOT EQUIPMENT	
3	Tony Nix 3-6	Surface	Edgar Rodriguez	Kevin Aldridge	06/27/2018 13:30:00	06/27/2018 13:45:00	0.25	Operational	Pump Spacer		0.0000	0.00	0.00	0.00	RIG UP GROUND	
4	Tony Nix 3-6	Surface	Edgar Rodriguez	Kevin Aldridge	06/27/2018 13:45:00	06/27/2018 14:20:00	0.58	StandBy	Customer						RIG RUNNING CASING	
5	Tony Nix 3-6	Surface	Edgar Rodriguez	Kevin Aldridge	06/27/2018 14:20:00	06/27/2018 14:30:00	0.17	StandBy	Customer						CASING ON BOTTOM	
6	Tony Nix 3-6	Surface	Edgar Rodriguez	Kevin Aldridge	06/27/2018 14:30:00	06/27/2018 14:40:00	0.17	Operational	Rig Up						RIG UP FLOOR AND HEAD	
7	Tony Nix 3-6	Surface	Edgar Rodriguez	Kevin Aldridge	06/27/2018 14:40:00	06/27/2018 15:35:00	0.92	Operational	Circulate Well						RIG CIRCULATING	
8	Tony Nix 3-6	Surface	Edgar Rodriguez	Kevin Aldridge	06/27/2018 15:35:00	06/27/2018 15:50:00	0.25	Operational	Safety Meeting							
9	Tony Nix 3-6	Surface	Edgar Rodriguez	Kevin Aldridge	06/27/2018 15:50:00	06/27/2018 15:57:00	0.12	Operational	Pressure Test		8.3000			1000.00	TEST LINES	

EVENT LOG

Service Line Cementing

Client MIDWESTERN EXPLORATION COMPANY

District Liberal, KS

10	Tony Nix 3-6	Surface	Edgar Rodriguez	Kevin Aldridge	06/27/2018 15:57:00	06/27/2018 16:00:00	0.05	Operational	Pump Spacer		8.4000	3.00	10.00	30.00	STOP LOSS SPACER
11	Tony Nix 3-6	Surface	Edgar Rodriguez	Kevin Aldridge	06/27/2018 16:00:00	06/27/2018 16:56:00	0.93	Operational	Pump Lead Cement		12.1000	4.00	219.00	50.00	480 SKS LEAD
12	Tony Nix 3-6	Surface	Edgar Rodriguez	Kevin Aldridge	06/27/2018 16:56:00	06/27/2018 17:19:00	0.38	Operational	Pump Tail Cement		15.6000	3.00	42.00	210.00	200 SKS TAIL
13	Tony Nix 3-6	Surface	Edgar Rodriguez	Kevin Aldridge	06/27/2018 17:19:00	06/27/2018 17:21:00	0.03	Operational	Drop Top Plug						SHUTDOWN / DROP TOP PLUG
14	Tony Nix 3-6	Surface	Edgar Rodriguez	Kevin Aldridge	06/27/2018 17:21:00	06/27/2018 17:34:00	0.22	Operational	Pump Displacement		8.3000	5.00		80.00	DISPLACEMENT
15	Tony Nix 3-6	Surface	Edgar Rodriguez	Kevin Aldridge	06/27/2018 17:34:00	06/27/2018 17:41:00	0.12	Operational	Cement Back to Surface		8.3000	5.00	66.00	240.00	CEMENT BACK TO SURFACE
16	Tony Nix 3-6	Surface	Edgar Rodriguez	Kevin Aldridge	06/27/2018 17:41:00	06/27/2018 17:44:00	0.05	Operational	Other (See comment)		8.3000	3.00	96.00	630.00	SLOW RATE TO BUMP PLUG
17	Tony Nix 3-6	Surface	Edgar Rodriguez	Kevin Aldridge	06/27/2018 17:44:00	06/27/2018 17:48:00	0.07	Operational	Land Plug		8.3000	3.00	106.00	680.00	LANDED PLUG AT 680 AND TOOK UP TO 1310 PSI
18	Tony Nix 3-6	Surface	Edgar Rodriguez	Kevin Aldridge	06/27/2018 17:48:00	06/27/2018 17:50:00	0.03	Operational	Check Floats						3/4 BBL BACK
19	Tony Nix 3-6	Surface	Edgar Rodriguez	Kevin Aldridge	06/27/2018 17:50:00			Operational	End Pumping						END JOB / 40 BBLS OF CEMENT TO SURFACE

Customer: MIDWESTERN EXPLORATION COMPANY

Date: 6/27/2018

Well Name: TONY NIX 3-6

Well Location: LIBERAL KS

Supervisor: EDGAR RODRIGUEZ

Equipment Operators: JOSE CALDERON, NICOLAS PERE

Performance	Customer	
Was the appearance of the personnel and equipment satisfactory?	Yes	No
Was the job performed in a professional manner?	Yes	No
Were the calculations prepared and explained properly?	Yes	No
Were the correct services dispatched to the job site?	Yes	No
Were the services performed as requested?	Yes	No
Did the job site environment remain unchanged?	Yes	No
Did the equipment perform in the manner expected?	Yes	No
Did the materials meet your expectations?	Yes	No
Was the crew prepared for the job?	Yes	No
Was the crew prompt in the rig-up and actual job?	Yes	No
Were reasonable recommendations given, as requested?	Yes	No
Did the crew perform safely?	Yes	No
Was the job performed to your satisfaction?	Yes	No

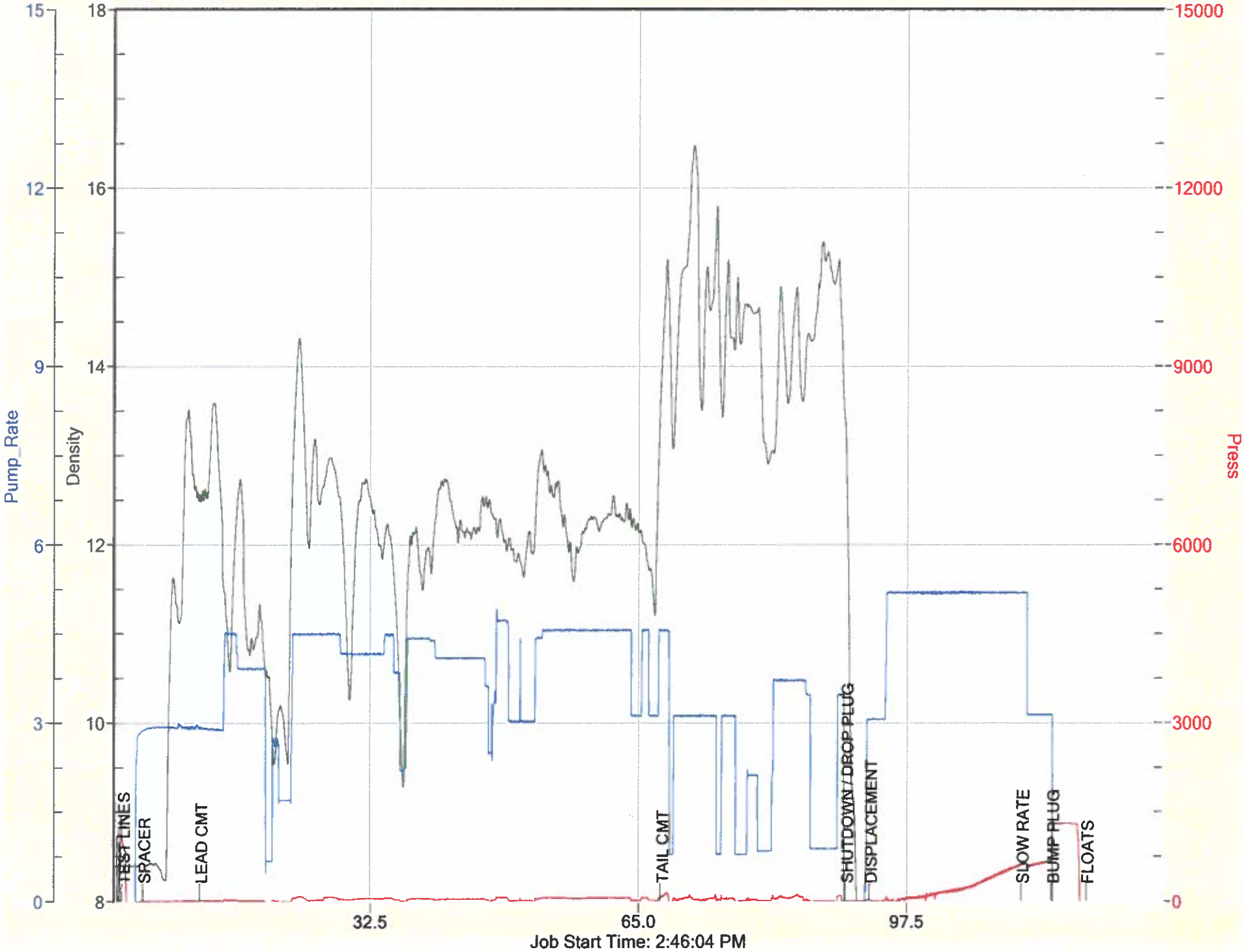
Customer Signature: Billy Daughertz Date: 6-28-18

Additional Comments:

Great job!

MIDWESTERN EXPLORATION

TONY NIX 3-6



Job Start Time: 2:46:04 PM

CEMENT MIXING WATER GUIDELINES

Company Name:	MIDWESTERN EXPLORATION COMPANY		
Lease Name:	TONY NIX 3-6		
County	SEWARD	State KANSAS	
Water Source:	FRAC TANK		
Submitted By:	EDGAR RODRIGUEZ	Date: 6/27/2018	
pH Level	7		Must be less than 8.5
Sulfates	250		Must be less than 1,000 PPM
Chlorides	500		Must be less than 3,000 PPM
Temperature	75		

COMMENTS

Customer Signature

Thank You

Cementing Treatment

Start Date	6/27/2018	**Field Ticket#**	FT-07952-S7S2X10202-04068
End Date	6/27/2018	**Well**	Tony Nix 3-6
Client	MIDWESTERN EXPLORATION COMPANY	**API#**	15-189-22854
Client Field Rep.	Billy Daugherty	**Well Classification**	
Service Sup.	Edgar Rodriguez	**County**	Stevens
District	Liberal, KS	**State/Province**	KS
Type of Job	Surface	**Formation**	
Execution ID	EXC-07952-S7S2X102	**Rig**	Duke #9
Project ID	PRJ1008094		

WELL GEOMETRY

Type	ID (in)	OD (in)	Wt. (lb/ft)	MD (ft)	TVD (ft)	Excess(%)	Grade	Thread
Previous Casing	19.12	20.00	94.00	80.00	80.00			
Open Hole	12.25			1,680.00	1,680.00	100.00		
Casing	8.10	8.63	24.00	1,680.00	1,680.00			

Shoe Length (ft): 42

HARDWARE

Bottom Plug Used?	No	**Tool Type**	
Bottom Plug Provided By		**Tool Depth (ft)**	
Bottom Plug Size		**Max Tubing Pressure - Rated (psi)**	
Top Plug Used?	Yes	**Max Tubing Pressure - Operated (psi)**	
Top Plug Provided By	BJ	**Max Casing Pressure - Rated (psi)**	1,500.00
Top Plug Size	8.625	**Max Casing Pressure - Operated (psi)**	1,280.00
Centralizers Used	Yes	**Pipe Movement**	None
Centralizers Quantity	3.00	**Job Pumped Through**	Manifold
Centralizers Type	Bow	**Top Connection Thread**	8RD
Landing Collar Depth (ft)	1,638	**Top Connection Size**	8.625

CIRCULATION PRIOR TO JOB

Well Circulated By	Rig	**Solids Present at End of**	No

Cementing Treatment

		Circulation	
Circulation Prior to Job	Yes	**10 sec SGS**	
Circulation Time (min)	90.00	**10 min SGS**	
Circulation Rate (bpm)	3.50	**30 min SGS**	
Circulation Volume (bbls)	200.00	**Flare Prior to/during the Cement Job**	No
Lost Circulation Prior to Cement Job	No	**Gas Present**	No
Mud Density In (ppg)		**Gas Units**	
Mud Density Out (ppg)			
PV Mud In			
PV Mud Out			
YP Mud In			
YP Mud Out			

TEMPERATURE

Ambient Temperature (°F)	95.00	**Slurry Cement Temperature (°F)**	80.00
Mix Water Temperature (°F)	80.00	**Flow Line Temperature (°F)**	

BJ FLUID DETAILS

Fluid Type	Fluid Name	Density (ppg)	Yield (Cu Ft/sk)	H2O Req. (gals/sk)	Planned Top of Fluid (Ft)	Length (Ft)	Vol (sk)	Vol (Cu Ft)	Vol (bbls)
Spacer / Pre Flush / Flush	Star Spacer	8.6700			0.00				10.0000
Lead Slurry	Light Lead	12.1000	2.5601	14.88	0.00	1,408.00	480	1,222.0000	217.6000
Tail Slurry	Tail Cement	15.6000	1.1980	5.23	1,408.00	272.00	200	240.0000	42.6000
Displacement Final	Displacement	8.3400			0.00			0.0000	104.3000

Fluid Type	Fluid Name	Component	Concentration	UOM
Spacer / Pre Flush / Flush	Star Spacer	IntegraGuard STAR LT concentrate	100.0000	PCT
Spacer / Pre Flush / Flush	Star Spacer	IntegraGuard STAR PLUS	20.0000	PPB
Lead Slurry	Light Lead	FOAM PREVENTER, FP-25	0.2000	LBS/SK
Lead Slurry	Light Lead	CEMENT EXTENDER, GYPSUM, A-	2.0000	BWOB

Cementing Treatment

		10		
Lead Slurry	Light Lead	Cement Additive, Sodium Metasilicate A-2	2.0000	BWOB
Lead Slurry	Light Lead	ACCELERATOR, SALT, CHLORIDE, CALCIUM, A-7P, PELLETS	3.0000	BWOB
Lead Slurry	Light Lead	CEMENT, ASTM TYPE I	100.0000	PCT
Lead Slurry	Light Lead	EXTENDER, BENTONITE	4.0000	BWOB
Lead Slurry	Light Lead	SALT,SODIUM CHLORIDE, A-5	2.0000	BWOW
Lead Slurry	Light Lead	IntegraSeal CELLO	0.5000	LBS/SK
Tail Slurry	Tail Cement	CEMENT, ASTM TYPE I	100.0000	PCT
Tail Slurry	Tail Cement	ACCELERATOR, SALT, CHLORIDE, CALCIUM, A-7P, PELLETS	2.0000	BWOB
Tail Slurry	Tail Cement	IntegraSeal CELLO	0.2500	LBS/SK

TREATMENT SUMMARY

Time	Fluid	Rate (bpm)	Fluid Vol. (bbls)	Pipe Pressure (psi)	Annulus Pressure (psi)	Comments
	Star Spacer	0.00	10.00			
	Light Lead	0.00	217.60			
	Tail Cement	0.00	42.60			
	Displacement	0.00	104.30			

	Min	Max	Avg
Pressure (psi)	40.00	680.00	400.00
Rate (bpm)	3.00	5.00	4.00

DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ	**Amount of Cement Returned/Reversed**	40.00
Calculated Displacement Volume (bbls)	106.00	**Method Used to Verify Returns**	Visual
Actual Displacement Volume (bbls)	106.00	**Amount of Spacer to Surface**	0.00
Did Float Hold?	Yes	**Pressure Left on Casing (psi)**	0.00
Bump Plug	Yes	**Amount Bled Back After Job**	0.75
Bump Plug Pressure (psi)	1,310.00	**Total Volume Pumped (bbls)**	377.00
Were Returns Planned at Surface	Yes	**Top Out Cement Spotted**	No
Cement returns During Job	Full	**Lost Circulation During Cement Job**	No

Cementing Treatment

CEMENT PLUG

Bottom of Cement Plug?	No	**Wiper Balls Used?**	No
Wiper Ball Quantity		**Plug Catcher**	No
Number of Plugs			

SQUEEZE

Injection Rate (bpm)	**Fluid Density (ppg)**
Injection Pressure (psi)	**ISIP (psi)**
Type of Squeeze	**FSIP (psi)**
Operators Max SQ Pressure (psi)	

COMMENTS

Treatment Report

Job Summary

TEST LINES 1000 PSI
10 BBLS STOP LOSS SPACER
480 SKS LEAD (219 BBLS @12.1)
200 SKS TAIL (42 BBLS @15.6)
SHUTDOWN / DROP PLUG
106 BBLS DISPLACEMENT
BUMP PLUG AT 680 PSI AND TOOK UP TO 1310 PSI
HOLD FLOATS FOR 3 MINUTES
3/4 BBL BACK
40 BBLS OF CEMENT BACK TO SURFACE

Nichols Fluid Service, Inc

316 Industrial Park Ave
Liberal, KS 67901
620-624-5582

234362

Date 7-10-18

Company Name: midwestern

Lease Name Tony Nix 3-6

State KS County stevens Legals

Truck# 271 Driver Gerardo Arinaga Hours Time 3 1/2

Truck Type:

Transport / Bobtail Pressure Truck Winch Truck Frac Tank#

Other

Product:

Kcl% Cla Sta Lo Surf Bac Packer Fluid

Other

Job Type:

S/W Pull Bottoms F/W Kcl Pressure Job

Barrels hauled 120

Tank Gauges:

Stock Tank # Stock Tank # S/W Tank Frac Tank #

Top Gauge Top Gauge

Bottom Gauge Bottom Gauge

Disposal:

Johnson Engles Sublett Roher Muddtrust Smith Matkins Lemert #3

Guttridge Keefer Singley Dickerson Wonder Ungles Other ~~Johnson~~

Frac Tank

Set Pickup Days rental Clean out fee Acid charge

Set/Pickup LightPlant Days rental Other

Remarks: 120 BBls out of reserve pit hauled to disposal

$1.00/BBL to strain .40/BBL Disp fee

Road Conditions: OK

Field Estimate $500.50/ **Received by**

KCC Rout 4343#49.652M

Nichols Fluid Service, Inc

316 Industrial Park Ave
Liberal, KS 67901
620-624-5582

234684

Date 7/10/18

Company Name: Midwestern Exploration

Lease Name Tony Nix 3-6

State KS County Stevens Legals

Truck# 097 Driver Felipe Trevizo Hours Time 3 1/2

Truck Type:

Transport ✓ Bobtail Pressure Truck Winch Truck Frac Tank#

Other

Product:

Kcl% Cla Sta Lo Surf Bac Packer Fluid

Other Fluid

Job Type:

S/W Pull Bottoms F/W Kcl Pressure Job

Barrels hauled # 120

Tank Gauges:

Stock Tank # Stock Tank # S/W Tank Frac Tank #

Top Gauge Top Gauge

Bottom Gauge Bottom Gauge

Disposal:

Johnson ✓ Engles Sublett Roher Muddtrust Smith Matkins Lemert

Guttridge Keefer Singley Dickerson Wonder Ungles Other #3 ?

Frac Tank

Set Pickup Days rental Clean out fee Acid charge

Set/Pickup LightPlant Days rental Other

Remarks: Pull #120 Bbls free water from the Reserb pit on Loc. Hauled To Disposal.

$1.00 to Strain, 40/BBL Disp

Road Conditions: Ok.

Field Estimate $500.50 **Received by**

KCC Rout 4343#49.652M

FORM MUST BE TYPED

CDP-5 7/91

KANSAS CORPORATION COMMISSION
CONSERVATION DIVISION
130 SOUTH MARKET, RM 2078
WICHITA, KANSAS 67202-1286

SURFACE POND WASTE TRANSFER

OPERATOR NAME | LICENSE NO.

OPERATOR ADDRESS

CONTACT PERSON | PHONE NUMBER ( )

PERMIT NUMBER (API# IF APPLICABLE) | LEASE NAME

TYPE OF POND

_____ EMERGENCY PIT _____ BURN PIT

_____ TREATMENT PIT _____ DRILLING PIT

_____ WORKOVER PIT

PIT LOCATION

SEC ____ TWP ____ S RNG ____ X/W

_____ Ft from N/S Line of Sec. (circle one)

_____ Ft from E/W Line of Sec.

_____ COUNTY

Type of waste to be disposed: ✓ Fluid _____ Mud / Cuttings

Amount of waste: 2 No. of loads 240 Barrels

Destination of waste: _____ Reserve Pit ✓ Disposal Well

If waste is transferred to another reserve pit, is the lease active? _____

Location of waste disposal:

Operator Name Nichols Water Service License No. 73-0935496

Lease Name Nichols #3 Sec SE4 SW4 NE4 Twp 6N S Rng 24 (E)/W

Docket No. OTC/OCC: 13447 County Beaver

The undersigned hereby certifies that he / she is _____ for _____ (Co.), a duly authorized agent, that all information shown hereon is true and correct to the best of his knowledge and belief

_____

Subscribed and sworn to before me on this _____ day of _____, 20 _____

_____
Notary Public

My Commission expires _____

MIDWESTERN EXPLORATION COMPANY

Tony Nix 3-6

Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: Tony Nix 3-6
API: 15-189-22854-00-00
Location: Section 6-T35S-R35W
License Number: KCC 5263 — Region: Stevens Co, KS
Spud Date: 6/26/2018 — Drilling Completed: 7/4/2018
Surface Coordinates: 330' FWL & 1740' FSL

Bottom Hole Coordinates: 330' FWL & 1740' FSL
Ground Elevation (ft): 3,014' — K.B. Elevation (ft): 3,026'
Logged Interval (ft): 4,100' To: 6,800' — Total Depth (ft): 6,800'
Formation: St. Louis
Type of Drilling Fluid: Chemical

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Midwestern Exploration Company
Address: 3500 S. Boulevard, Suite #2B
Edmond, OK 73013

GEOLOGIST

Name: Thomas M. Williams
Company: Petroleum Geologist
Address: Wichita, KS

Formation Tops

	Sample Top	E-Log Top
Oread Lime	4252 (-1226)	4253 (-1227)
Base/Heebner Sh	4328 (-1302)	4328 (-1302)
Toronto Lime	4338 (-1312)	4338 (-1312)
Lansing	4445 (-1419)	4444 (-1418)
Kansas City	4796 (-1770)	4796 (-1770)
Marmaton	5219 (-2193)	5218 (-2192)
Cherokee Shale	5587 (-2561)	5586 (-2560)
Atoka Lime	5767 (-2741)	5764 (-2738)
Lower Atoka Lime	5903 (-2877)	5901 (-2875)
Morrow Shale	5943 (-2917)	5940 (-2914)
1st Lwr. Morrow Lm	6257 (-3231)	6256 (-3230)
2nd Lwr. Morrow Lm	6263 (-3237)	6262 (-3236)
Lwr. Morrow Sd	6276 (-3250)	6276 (-3250)
Chester 'C' Lm	6339 (-3313)	6335 (-3309)
Chester 'B' Lm	6405 (-3379)	6401 (-3375)
Chester 'A' Lm	6496 (-3470)	6484 (-3458)
Ste. Genevieve	6603 (-3577)	6583 (-3557)
St. Louis	6688 (-3662)	6688 (-3662)
'B' Porosity	6765 (-3739)	6763 (-3737)

Comments

Due to the absence of the Chester Sand reservoir at this location, and lack of comercial shows in the Morrow Sand and Chester Limes, it was decided to plug the Tony Nix 3-6 as a dry hole.

ROCK TYPES

Anhy	Carb.sh	Lmst	Shcol
Bent	Congl	Meta	Shgy
Brec	Dol	Mrlst	Sltst
Cht	Gyp	Salt	Ss
Clyst	Igne	Shale	Till

Curve Track 1: ROP (min/ft) — Depth — Shows — Lithology — Geological Descriptions — TG, C1-C5: TG (Units), C1 (units), C2 (units), C3 (units), C4 (units), C5 (units)

ROP (min/ft) 0–4; TG, C1-C5 1–600

4000

Ls, lt. gry, gry-wh, arg. & shaley w/ abdt. gry. sh, no shows, no fluor, no odor, no staining.

Sh, med. to drk. gry, silty to calc, brittle, non-fissle.

4050

Sh, med. to drk. gry, silty to calc, fissle to non-fissle.

On location — Vis. 50, Wt. 8.9, LCM 8#

Ls, tan, med. gry, arg., dns, f. xln, no vis. porosity, no show, no fluor, no odor, w/ abdt. gry. sh.

4100

Sh, med. to drk. gry, silty to calc, fissle to non-fissle.

4126 (-1100)

Ls, tan, med. gry, v. dns, arg, f. xln, no vis. porosity, no show, no fluor, no odor, w/ abdt. gry. sh.

4150

Ls, lt. to med. gry, arg. & shaley, f-m xln, poor dev. int. xln. porosity, no show, chalky fluor, no odor, no stain.

Sh, med. to drk. gry, fissle.

Ls, med. gry, dns, arg. & shaley, no vis. porosity, no shows.

Sh, med. to drk. gry, fissle.

Ls, lt. to med. gry, f. xln, dns, no vis. porosity, no show, no fluor.

4200

Sh, med. to drk. gry, fissle.

TG inc. 22 units

Morning Tour Driller

Ls, lt. to med. gry, f. xln, dns, no vis. porosity, no show, no fluor.

Vis. 40, Wt. 9.0, LCM 8#

Ls, lt. gry-wh, crm. wh, foss, f-m xln, poor dev. int. xln. porosity, no show, chalky fluor, no odor, no stain.

Ls, med. gry, dns, arg. & shaley, no vis. porosity, no shows.

Sh, med. to drk. gry, fissle.

TG inc. 86 units

4250

Sh, blk, carb, w/ show of gas.

Oread Lm 4252 (-1226)

Ls, tan, gry, buff, f-m xln, poorly dev. int. xln. porosity, no show, no fluor, no odor, no staining.

Sh, med. to drk. gry, fissle, w/ gry. dns. Ls, no shows.

Ls, tan, gry, buff, f-m xln, w/ c. xln. sparite, poorly dev. int. xln. porosity, no show, no fluor, no odor, no staining.

? — Carbide Test @ extractor

Sh, lt. to med. gry, calc., fissle.

Ls, med. gry, dns, arg. & shaley, no vis. porosity, no shows.

4300

Sh, black, carb. bleeding abdt. gas.

TG inc. 154 units

Ls, tan, brown, v. dns.

Ls, tan, brown, v. dns, f. xln, no vis. porosity.

Sh, black, carb. bleeding gas.

TG inc. 130 units

B/ Heebner 4328 (-1302)

Ls, tan, brown, v. dns, f. xln, no vis. porosity.

Sh, lt. to med. gry. fissle.

Toronto Lm 4338 (-1312)

Ls, crm. wh, buff, dns. to brittle, f-c xln. w/ sparite, chalky in part, poor to fair dev. int. xln. porosity, fair dev. vugular porosity, no shows, chalky fluor, no odor, no staining.

4350

Ls, crm. wh, buff, lt. gry, v. dns, f-m xln, poorly dev. to no vis. porosity, no shows, no fluor, no odor, no stn.

Sh, med. to drk. gry, silty, fissle.

Sh, med. to drk. gry, silty, fissle.

Ls, crm. wh, buff, lt. gry, v. dns, f-m xln, poorly dev. to no vis. porosity, no shows, no fluor, no odor, no stn.

4400

Sh, med. to drk. gry, silty, fissle.

Sh, lt. to med. gry, silty, fissle.

Sh, lt. to med. gry, silty, fissle.

Lansing 4445 (-1419)

4450

Ls, buff, crm. wh, f-m xln, poorly dev. int. xln. & vug. porosity, no shows, no fluor, no odor, no stn.

Sh, lt. to med. gry, silty, fissle.

Ls, buff, crm. wh, f-m xln, fair dev. int. xln. & vug. porosity, no shows, no fluor, no odor, no staining.

Ls, buff, crm. wh, f-m xln, fair dev. int. xln. & vug. porosity, no shows, no fluor, no odor, no staining.

4500

Ls, med. gry, f. xln, v. dns, no vis. porosity, no shows, no fluor, no odor, no staining, w/ wh. chert.

Ls, med. gry, f. xln, v. dns, no vis. porosity, no shows, no fluor, no odor, no staining, w/ white chert.

Sh, lt. to med. gry, silty, fissle.

Ls, med. gry, gry-wh, f-m xln, no vis. porosity, no shows, no fluor, no odor, no staining.

Ls, med. gry, gry-wh, f-m xln, no vis. porosity, no shows, no fluor, no odor, no staining.

4550

Vis 40, Wt. 8.8, LCM 10#

Ls, buff, crm. wh, lt. gry-wh, dns. to brittle, well dev. int. xln. & vug. porosity, no shows, no fluor, no odor, no staining.

Ls, buff, crm. wh, lt. gry-wh, dns. to brittle, fair dev. int. xln. & vug. porosity, no shows, no fluor, no odor, no staining.

Vis. 44, Wt. 8.8, LCM 10#

4600

Ls, buff, tan, v. dns, f. xln, no vis. porosity, no shows, no fluor, no odor, no staining.

Daylight Tour Driller

Ls, buff, crm. wh, oolitic, foss. frags, fair dev. oomoldic, xln. & vug. porosity, no shows, chalky fluor, no odor, no staining.

Ls, buff, crm. wh, oomoldic, foss. frags, v. brittle, well dev. oomoldic, xln. & vug. porosity, no shows, no fluor, no odor, no staining, abdt. chalk.

4650

Ls, buff, crm. wh, oomoldic, foss. frags, v. brittle, well dev. oomoldic, xln. & vug. porosity, no shows, no fluor, no odor, no staining, abdt. chalk.

Ls, tan, gry v. dns, f. xln, no vis. porosity, no shows, no fluor.

Adjust baseline

Ls, buff, crm. wh, lt. gry-wh, m-c xln. dns. to brittle, well dev. int. xln. & vug. porosity, no shows, chalky fluor, sli. odor, no staining, chalky.

4700

Ls, buff, crm. wh, lt. gry-wh, m-c xln. dns. to brittle, well dev. int. xln. & vug. porosity, no shows, chalky fluor, sli. odor, no staining, chalky.

Ls, buff, crm. wh, lt. gry-wh, m-c xln. dns. to brittle, granular, well dev. int. xln. & vug. porosity, no shows, chalky fluor, sli. odor, no staining, chalky.

Butane test at trailer

4750

Butane test at extractor

Ls, buff, crm. wh, lt. gry-wh, m-c xln. dns. to brittle, granular, well dev. int. xln. & vug. porosity, no shows, chalky fluor, sli. odor, no staining, chalky.

Ls, lt. gry-wh, m. xln, v. dns, granular, tr. wh. chert, no vis. porosity, no shows, no fluor.

Sh, med. to drk. gry, dns. fissle.

Kansas City 4796 (-1770)

4800

Ls, tan, m. xln, oolitic w/ well dev. oomoldic porosity, no shows, dull gold fluor, no odor, no staining.

Oomoldic limestone in 4820' sample

Ls, buff, crm. wh, f-m xln, brittle, well dev. int. xln. & sm. vugular porosity, no shows, no fluor, no odor, no staining, w/ wh. chert.

Butane test @ extractor

Ls, lt. to med. gry, arg., f. xln, granular, no vis. porosity, no shows, no fluor, w/ gry. shale.

4850

Winter Mud report @ 4847' — Wt. 9.1, Vis. 45, Filtrate 8.0, Chl. 3,000, LCM 6#

Ls, lt. to med. gry, f. xln, no vis. porosity, no shows, no fluor, w/ gry. shale.

Ls, lt. to med. gry, arg., f. xln, granular, no vis. porosity, no shows, no fluor, w/ gry. shale.

Earth Tech @ 4880' replace extractor unit

Sh, med. gry, silty to calcareous.

4900

Ls, lt. to med. gry, arg., f. xln, granular, no vis. porosity, no shows, no fluor, w/ gry. shale.

Ls, buff, tan, f-m xln, poor to fair dev. vug. & int. xln. porosity, no shows, no fluor, no odor, no staining.

4950

Ls, buff, tan, f-m xln, oolitic, fair to well dev. vug. & int. xln. porosity, no shows, no fluor, no odor, no staining.

Vis. 47, Wt. 9.1, LCM 9#

Ls, buff, tan, f-m xln, poor to fair dev. vug. & int. xln. porosity, no shows, no fluor, no odor, no staining.

Ls, tan, m. xln, oolitic w/ fair dev. oomoldic porosity, no shows, no fluor, no odor, no staining.

5000

Ls, gry, tan, mottled, granular, p-f dev. int. xln. porosity, no shows.

Sh, lt. to med. gry, silty, fissle.

Ls, buff, tan, f-m xln, poor to fair dev. int. xln,. porosity, no shows, no fluor, sli. odor, no staining.

Sh, lt. to med. gry, silty, fissle.

Ls, tan, lt. to med. gry, f. xln, arg., poor to fair dev. int. xln. & vug. porosity, no shows, no fluor, no odor, no stain.

5050

Ls, tan, m. xln, oolitic w/ well dev. oomoldic porosity, no shows, dull gold fluor, no odor, no staining.

Ls, tan, m. xln, oolitic w/ well dev. oomoldic porosity, no shows, dull gold fluor, no odor, no staining.

Sh, lt. to med. gry, silty, fissle.

Ls, tan, brn, gry, v. dns, micritic, f. xln, no vis. porosity, no shows.

5100

Ls, tan, lt. to med. gry, f. xln, arg., poorly dev. to no vis. porosity, no shows, no fluor, no odor, no stn, w/ abdt. med. gry shale.

Ls, lt. to med. gry, arg., f. xln, granular, no vis. porosity, no shows, no fluor, w/ gry. shale.

Sh, lt. to med. gry, silty, fissle.

Ls, lt. to med. gry, arg., f. xln, granular, no vis. porosity, no shows, no fluor, w/ gry. shale.

5150

Ls, tan, lt. to med. gry, f. xln, arg., poorly dev. to no vis. porosity, no shows, no fluor, no odor, no stn, w/ abdt. med. gry shale.

Vis. 55, Wt. 9.2, LCM 8#

Ls, tan, lt. to med. gry, f. xln, arg., poorly dev. to no vis. porosity, no shows, no fluor, no odor, no stn, w/ abdt. med. gry shale.

Ls, tan, med. to drk. gry, f. xln, arg., poorly dev. to no vis. porosity, no shows, no fluor, no odor, no stn, w/ abdt. med. to drk. gry shale.

5200

Ls, med. gry, arg. & shaley, dns.

Sh, med. to drk. gry, fissle.

Marmaton 5219 (-2193)

Ls, lt. gry-wh, f.-m xln, poor dev. int. xln. porosity, no shows, no fluor, no odor, no staining.

Ls, buff, tan, f-m xln, fair dev. int. xln. porosity, no shows, no fluor, no odor, no staining.

Ls, crm. wh, gry-wh, oolitic, p-f dev. int. xln. porosity, no shows, no fluor, no odor, no staining.

5250

Ls, buff, crm. wh, v. brittle, f-m xln, oolitic, w/ well dev. oomoldic porosity, no shows, no fluor, no odor, no staining, sub-chalky.

Ls, lt. gry, tan, buff, dns, f. xln, sub-chalky, poorly dev. to no vis. porosity, no shows, no fluor.

Ls, tan, med. to drk. gry, f. xln, arg., poorly dev. to no vis. porosity, no shows, no fluor, no odor, no stn, w/ abdt. med. gry shale.

5300

Ls, tan, med. to drk. gry, f. xln, arg., poorly dev. to no vis. porosity, no shows, no fluor, no odor, no stn, w/ abdt. med. gry shale.

Sh, lt. to med. gry, silty, fissle.

Ls, tan, v. dns, f. xln, micritic, no vis. porosity, no shows, no fluor, no odor, no staining, some chert.

5350

Ls, tan, v. dns, f. xln, micritic, no vis. porosity, no shows, no fluor, no odor, no staining, some chert.

Ls, buff, tan, lt. gry, f-m xln, dns, poorly dev. to no vis. porosity, no shows, no fluor, no odor, no staining, chalky, tr. chert.

Ls, buff, tan, lt. gry, f-m xln, dns, poorly dev. to no vis. porosity, no shows, no fluor, no odor, no staining, chalky, tr. chert.

5400

Ls, buff, lt. gry, f-m xln, fair dev. int. xln, porosity, no shows, no fluor, no odor, no staining, chalky.

Ls, buff, lt. gry, f-m xln, fair dev. int. xln, porosity, no shows, no fluor, no odor, no staining, chalky.

Ls, crm. wh, buff, fair dev. int. xln. porosity, v. chalky, no shows, no fluor, no odor, no staining.

5450

Ls, buff, lt. gry, f-m xln, poorly dev. int. xln,. porosity, no shows, no fluor, no odor, no staining, chalky.

Sh, black, carbonaceous, shw. gas.

TG inc. 84 units

Sh, med. gry calcareous, fissle.

5500

Ls, lt. to med. gry, dns, arg., & shaley, no vis. porosity, no shows, no fluor, no odor, no staining.

Ls, lt. to med. gry, dns, arg., & shaley, no vis. porosity, no shows, no fluor, no odor, no staining.

5550

Ls, lt. to med. gry, dns, arg., & shaley, no vis. porosity, no shows, no fluor, no odor, no staining.

Ls, med. to drk. gry, dns, arg., & shaley, no vis. porosity, no shows, no fluor, no odor, no staining.

Cherokee Sh 5587 (-2561)

Sh, black carb. bleeding abdt. gas.

TG inc. 362 units

5600

Sh, black carb. bleeding abdt. gas.

Ls, med. to drk. gry, dns, arg., & shaley, no vis. porosity, no shows, no fluor, no odor, no staining.

Recycle

Ls, med. to drk. gry, dns, arg., & shaley, no vis. porosity, no shows, no fluor, no odor, no staining.

Recycle

Sh, drk. gry. to blk. carbonaceous.

5650

Ls, med. to drk. gry, dns, arg., & shaley, no vis. porosity, no shows, no fluor, no odor, no staining.

Sh, black carb. bleeding abdt. gas.

TG inc. 79 units

Sh, drk. gry, fissle, carbonaceous.

TG inc. 106 units

Sh, drk. gry, fissle, carbonaceous.

5700

Sh, drk. gry, fissle, carbonaceous.

Ls, med. to drk. gry, dns, arg., no vis. porosity, no show, no fluor.

TG inc. 89 units

Ls, med. to drk. gry, dns, arg., no vis. porosity, no show, no fluor.

Sh, drk. gry, fissle, carbonaceous.

Sh, drk. gry, fissle, carbonaceous.

5750

Sh, black carb. bleeding abdt. gas.

Ls, med. to drk. gry, dns, arg., no vis. porosity, no show, no fluor.

TG inc. 332 units

Sh, black carb. bleeding abdt. gas.

Atoka Lm 5767 (-2741)

Ls, med. to drk. gry, dns, arg., no vis. porosity, no show, no fluor.

Sh, blk, carbonaceous, show gas.

TG inc. 138 units

Sh, blk, carbonaceous, show gas.

TG inc. 127 units

Ls, brn, drk. gry, dns, arg., no vis. porosity, no show, no fluor.

Sh, drk. gry, fissle, carbonaceous.

5800

Ls, brown, dns, arg., no vis. porosity, no show, no fluor.

Sh, black carb. bleeding abdt. gas.

TG inc. 406 units

Ls, brown, dns, arg, no shows.

Sh, blk, carbonaceous, show gas.

Sh, drk. gry, fissle, carbonaceous.

Sh, drk. gry, fissle, carbonaceous.

Ls, brown, dns, arg, no shows.

Sh, black carb. bleeding abdt. gas.

TG inc. 174 units

5850

Sh, blk, carbonaceous, show gas.

Ls, brn, gry, dns, arg, no shows.

Sh, blk, carbonaceous, show gas.

Ls, brn, gry, dns, arg, no shows.

Sh, black carb. bleeding abdt. gas.

TG inc. 308 units

Ls, brn, gry, dns, arg, no shows.

Ls, brn, gry, dns, arg, no shows.

Sh, black carb. bleeding abdt. gas.

5900

Sh, blk, carbonaceous, show gas.

L. Atoka Lm 5903 (-2877)

Ls, lt. gry-wh, tan, f. xln, micritic, dns. to chalky, no vis. porosity, no shows, no fluor, no odor, no stn.

Ls, lt. gry-wh, tan, f. xln, micritic, dns. to chalky, no vis. porosity, no shows, no fluor, no odor, no stn.

Ls, lt. gry-wh, tan, f. xln, micritic, dns. to chalky, no vis. porosity, no shows, no fluor, no odor, no stn, w/ lt. gry-wh. chert.

Morrow Sh 5943 (-2917)

TG inc. 384 units

5950

Sh, lt. to drk. gry, silty, laminated, fissle, tr. pyrite.

Fair odor in 5960' sample

Sh, black carb. bleeding abdt. gas.

Sh, lt. gry, dns, calcareous.

TG inc. 417 units

Sh, blk, carbonaceous, show gas.

Sh, lt. to drk. gry, micaceous, silty, laminated, tr. pyrite.

Vis. 50, Wt. 8.9, LCM 9#

Sh, med. gry, silty, fissle blades.

c 5996.69

6000

Sh, lt. to drk. gry, micaceous, silty, tr. pyrite.

Winter Mud report @ 6021' — Wt. 9.1, Vis. 55, Filtrate 6.8, Chl. 3,000, LCM 10#

Sh, lt. to med. gry, silty, fissle.

Sh, lt. to drk. gry, micaceous, silty, tr. pyrite.

6050

Sh, med. gry, laminated, fissle.

Sh, lt. to drk. gry, micaceous, silty, laminated, tr. pyrite.

Sh, med. gry, silty, fissle blades.

6100

Sh, med. to drk. gry, micaceous, silty.

Sh, med. gry, laminated, fissle.

Sh, med. to drk. gry, fissle, tr. pyrite.

6150

Sh, med. to drk. gry, micaceous, silty.

Evening tour driller

Sh, med. gry, silty, fissle blades.

Sh, med. gry, laminated, fissle.

6200

Sh, med. to drk. gry, fissle, tr. pyrite.

Sh, med. to drk. gry, micaceous, silty.

Sh, med. gry, silty, fissle blades.

6250

L. Mrw. Lm 6257 (-3231)

Ls, tan, m. xln, foss, arg, no vis. porosity, no show, no fluor, glauc, some SS, arg, glauconitic, tr. gas.

L. Mrw. Lm 6263 (-3237)

Ls, tan, gry, foss. frags, arg. & shaley, no shows, no fluor.

CFS 6270' 1 hr.

Scale Change — ROP (min/ft) 0–10

Bit Trip @ 6270' for button bit.

Survey 3/4 deg.

Strap 2.28 Long

AV 165.00 ft/min.

L. Mrw. Sd 6276 (-3250)

Trip gas

SS, gry, fine gr, sub-ang. to sub-rd, p. dev. int. gr. porosity, well cem, glauc, v. sli. shw. gas, no fluor.

SS, lt. gry-wh, med. to c. gr, sub-ang. to sub-rd, fair to well dev. int. gr. porosity, fair shw. gas when broken, no fluor, no odor, no staining, glauc. & calcareous cement.

TG inc. 54 units

6300

CFS 6300' 1 hr.

Wt. 9.0, Vis. 50, LCM 14#

Sh, lt. to med. gry, calcareous.

TG inc. 43 units

Ls, buff, lt. gry, m-c xln, v. dns, no vis. porosity, no show, no fluor.

Ls, buff, lt. gry, f-m xln, v. dns.

Sh, lt. to med. gry, calcareous.

Wt. 9.1, Vis. 50, LCM 14#

Chester 'C' 6339 (-3313)

Ls, buff, tan, f. xln, v. dns, foss, no vis. porosity, no shows, no fluor.

Ls, buff, crm-wh, m. xln, foss. frag, well dev. int. xln. foss. porosity, fair show of gas, dull gold fluor, no odor, no staining.

TG inc. 130 units

6350

Sh, lt. to med. gry, calcareous.

Ls, tan, brown, foss, f. xln. to micritic, no vis. porosity, no shows, no fluor, no odor, no stn.

Ls, buff, crm. wh, m. xln, foss, chalky, poorly dev. to no vis. porosity, v. sli. show of gas, no fluor, no odor, no staining.

Ls, buff, f. xln, v. dns, few foss, no vis. porosity, no show, no fluor.

Sh, lt. gry, fissle, calcareous.

Ls, buff, f. xln, v. dns, few foss, no vis. porosity, no show, no fluor.

Sh, lt. gry, fissle, calcareous.

TG inc. 23 units

6400

Chester 'B' 6405 (-3379)

Winter Mud report @ 6407' — Wt. 9.2, Vis. 63, Filtrate 5.0, Chl. 3,000, LCM 10#

Ls, buff, tan, f. xln. to micritic, no vis. porosity, no show, no fluor.

Sh, lt. gry, soft, fissle, mottled.

Ls, buff, tan, w/ abdt. foss. frags. m-c xln, no vis. porosity, v. sli. shw. gas, no fluor, no odor, no staining.

TG inc. 20 units

Ls, lt. gry, f. xln, arg. & shaley, no vis. porosity, no show, no fluor, no odor, no staining, w/ gry. shale.

6450

Ls, lt. gry, f. xln, arg. & shaley, no vis. porosity, no show, no fluor, no odor, no staining, w/ gry. shale.

Ls, lt. gry, f. xln, arg. & shaley, no vis. porosity, no show, no fluor, no odor, no staining, w/ gry. shale.

Clean extractor

Sh, lt. gry, soft, fissle, calcareous, w/ micritic green nodular Ls.

TG grad. inc. 45u

Sh, lt. gry, soft, fissle, calcareous, w/ micritic green nodular Ls.

Clean extractor

Chester 'A' 6496 (-3470)

6500

Ls, buff, tan, f. xln to micritic, no vis. porosity, no show, no fluor, no odor, no stain.

TG grad inc. 36u

Ls, buff, tan, f. xln to micritic, no vis. porosity, no show, no fluor, no odor, no stain.

TG inc. 35 units

Ls, lt. gry, f. xln, arg. & shaley, no vis. porosity, no show, no fluor, no odor, no staining, w/ gry. shale.

Ls, tan, lt. gry, f. xln, arg. & shaley, no vis. porosity, no show, no fluor, no odor, no staining, w/ gry. shale.

TG inc. 26 units

6550

Sh, lt. gry, soft, non-fissle.

Ls, tan, lt. gry, v. sandy w/ f-m gr. sand, sub-ang to sub-rd, no show, no fluor, no odor, no staining.

Ls, buff, lt. gry, m-c xln, foss. to sandy, p. dev. to no vis. porosity, no shows, no fluor, no odor, no staining, w/ tr. glauconitic sand.

TG grad inc. 44u

CFS

Sh, gry, w/ reddish siltstone, sandy w/ fine gr. sand in part, v. sli. show gas, no fluor, no odor.

Add premix to mud system

Ste. Gen. 6583 (-3557) log

Ls, lt. gry-wh, reddish-wh, w/ abdt. f. gr. sand, no vis. porosity, no shows, no fluor, no odor, no staining.

6600

Ste. Gen. 6603 (-3577) smpl

Ls, tan, f. xln, v. sandy, w/ f. gr. sand, no vis. porosity, v. sli. show gas, no fluor, no odor, no staining.

CFS

Ls, white, f. xln, v. sandy, w/ f. gr. sand, no vis. porosity, no shows, no fluor, no odor, no staining.

CFS

Ls, white, f. xln, v. sandy, w/ f. gr. sand, no vis. porosity, no shows, no fluor, no odor, no staining.

Bit trip @ 6630' to run PDC bit

Ls, white, tan, f. xln, v. sandy, w/ f. gr. sand, no visible porosity, no shows, no fluor, no odor, no staining.

Vis. 55, Wt. 9.1, LCM 14#

6650

Ls, white, tan, f. xln, v. sandy, w/ f. gr. sand, no visible porosity, no shows, no fluor, no odor, no staining.

Ls, lt. gry, white, f. xln, v. sandy, w/ f. gr. sand, no visible porosity, no shows, no fluor, no odor, no staining.

Winter Mud report @ 6680' — Wt. 9.0, Vis. 60, Filtrate 6.6, Chl. 2,700, LCM 12#

Ls, lt. gry, white, f. xln, v. sandy, w/ f. gr. sand, no visible porosity, no shows, no fluor, no odor, no stain, w/ clear & tan speckled chert.

Carbide test @ extractor 245u

St. Louis 6688 (-3662)

Ls, buff, crm. wh, v. oolitic, f. xln, dns, to chalky, poorly dev. int. foss. & int. xln. porosity, no shows, no fluor, no odor, no staining.

Chert in 6700' sample

6700

Ls, buff, crm. wh, v. oolitic, f. xln, dns to chalky, poorly dev. int. foss. & int. xln. porosity, no shows, no fluor, no odor, no staining.

Oolitic Lime in 6710' sample

Ls, lt. gry, v. dns, micritic, no por.

Ls, buff, crm. wh, v. oolitic, f. xln, dns to chalky, poorly dev. int. foss. & int. xln. porosity, no shows, no fluor, no odor, no staining, w/ wh. chert

Ls, lt. gry, v. dns, micritic, no por.

Clean & adjust extractor

Ls, buff, crm. wh, v. oolitic, f. xln, dns to chalky, poorly dev. int. foss. & int. xln. porosity, no shows, no fluor, no odor, no staining.

6750

CFS 6752'

Ls, lt. gry, v. dns, f. xln, sandy w/ f. gr. sand, no vis. porosity, no shows, no fluor, no odor, no staining.

Add premix to mud system

'B' Porosity 6765 (-3739)

Ls, buff, crm. wh, f-c xln, fair to well dev. int. foss. & int. xln. & vugular porosity, no shows, no fluor, no odor, no staining, w/ abdt. chalk.

CFS 6784'

Carbide test at extractor 136u

Ls, buff, f. xln to micritic, oolitic in part, poorly dev. int. xln. porosity, no shows, no fluor, no odor, no staining.

6800

RTD 6800'

6850

midwestern exploration co.

July 25, 2018

Kansas Corporation Commission
Oil and Gas Conservation Division
130 S. Market, Room 2078
Wichita, Kansas 67202

Re: Confidentiality Request
Tony Nix #3-6 (API-15-189-22854)
N2 SW NW SW
Section 6-T35S-R35W
Stevens County, Kansas

Gentleman,

Please hold the information concerning the above well confidential. Your consideration will be appreciated.

Yours very truly,

Dale J. Lollar
President

DJL/sb

3500 S. Boulevard, Ste: 2B • Edmond, OK 73013 (405) 340-4300 • Fax: (405) 340-4301