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 # 9855
Name: Grand Mesa Operating Company
Address 1: 1700 N WATERFRONT PKWY BLDG 600
Address 2:
City: WICHITA State: KS Zip: 67206 + 5514
Contact Person: MICHAEL J REILLY
Phone: (316) 265-3000
CONTRACTOR: License # 33575
Name: WW Drilling, LLC
Wellsite Geologist: DAVID BARKER
Purchaser: Plains Marketing LP

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 #:

08/29/2019	09/05/2019	09/05/2019
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No.: 15-007-24357-00-00
Spot Description:
NW-SW-NW-SE Sec. 7 Twp. 30 S. R. 11 ☐ East ☑ West
1665 Feet from ☐ North / ☑ South Line of Section
2360 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: Barber
Lease Name: DICK TRUST Well #: 1-7
Field Name: WILDCAT
Producing Formation: MISSISSIPPIAN
Elevation: Ground: 1837 Kelly Bushing: 1848
Total Vertical Depth: 5020 Plug Back Total Depth: 4986
Amount of Surface Pipe Set and Cemented at: 236 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: 36000 ppm Fluid volume: 1800 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: Pauls Oilfield Service
Lease Name: Beckerdite 2 License #: 31085
Quarter SW Sec. 21 Twp. 24 S. R. 13 ☐ East ☑ West
County: Stafford Permit #: D26547.0

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: 12/04/2019
☐ **Confidential Release Date:** 12/03/2021
☑ **Wireline Log Received** ☑ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** Karen Ritter **Date:** 12/04/2019

Page Two

Operator Name: Grand Mesa Operating Company Lease Name: DICK TRUST Well #: 1-7

Sec. 7 Twp. 30 S. R. 11 ☐ East ☑ West County: Barber

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:
Attached

☑ 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
Surface	12.25	8.625	24	236	Common	215	3%CC, 2%Gel
Production	7.875	5.50	15.5	5008	Pre AA2	160	0

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:

Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)* _____

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
4464	4488

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)*
2	4464	4468			250Gals 15% MCA Acid, 3gals RAS, 30 bbls 2% KCL Biocide
2	4473	4476			1500gals 10% NE/FE Acid, 20gals RAS-10, 40bbls 2% KCL Biocide
2	4470	4488			
	4464	4488			51300# 30/50 mesh brown sand and 8000# Resin coated Mesh 16/30 sd
					3466bbls of slickwater

TUBING RECORD: Size: 2.875 Set At: 4500 Packer At:

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

Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	DICK TRUST 1-7
Doc ID	1471206

All Electric Logs Run

Induction Log
Porosity Log
Sonic Log
Microlog
Caliper Log

Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	DICK TRUST 1-7
Doc ID	1471206

Tops

Name	Top	Datum
ONEGA SHALE	2760	+14
WABUANSEE	2818	+16
ANDALE	2958	+22
HOWARD	3196	+29
TOPEKA	3346	+61
HEEDNER SHALE	3731	+4
HASKELL LS	3919	-6
STARK SHALE	4241	0
MISSISSIPPIAN	4459	-49
KINDERHOOK	4587	-92
VIOLA	4762	-92
ARBUCKLE	4951	-89
LTD	5015	0

Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	DICK TRUST 1-7
Doc ID	1471206

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	24	236	Common	215	3%CC, 2%Gel
Production	7.875	5.50	15.5	5008	Pre AA2	160	0

BASiC energy services, L.P.

TREATMENT REPORT

Customer: GRAND MESA	Lease No.:	Date: 9-5-2019	
Lease: DICK TRUST	Well #: 1-7		
Field Order #: 18133	Station: PRATT, KS.	Casing: 5½"	Depth: TD
County: BARBER	State: KS		
Type Job: 5½" L.S.	Formation:	Legal Description: 7-34S-11W	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size: 5½" 15.5#	Tubing Size	Shots/Ft: CMT-		Acid: 160 SK PREM. AA2	RATE	PRESS	ISIP
Depth: 5008'	Depth	From	To	Pre Pad @ 1.48 CUFT	Max		5 Min.
Volume: 119 BBL	Volume	From	To	Pad	Min		10 Min.
Max Press: 1500	Max Press	From	To	Frac	Avg		15 Min.
Well Connection: F.E.	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth: TD	Packer Depth	From	To	Flush: 119 BBL	Gas Volume		Total Load

Customer Representative: JOHN JOHNSON	Station Manager: J. WESTERMAN	Treater: KEVIN LESLEY

Service Units	16817	21980	21980							
Driver Names	LESLEY	MARQUEZ	—	RICARDO	—					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
11:30AM					ON LOCATION - SAFETY MEETING
2:45PM					RUN 120 JTS. 5½" x 15.5# CSG.
5					TURBO - 1, 3, 5, 7, 9, 11, 13, 15
5					BASK - #2
5:00PM					CSG. ON BOTTOM / BREAK CIRC. W/RIG
6:00PM	200		5	6	H2O AHEAD
6:01PM	200		12	6	MUD FLUSH
6:03PM	200		5	6	H2O SPACER
6:04PM	150		42	6	MIX 160 SKS PREM. AA2 @ 14.8 PPG
6:12PM					SHUTDOWN - CLEAR PUMP & LINES
6:23PM					DROP L.D. PLUG
6:24PM	0		0	6	START DISPLACEMENT
6:38PM	300		83	5	LIFT PRESSURE
6:42PM	500		110	4	SLOW RATE
6:45PM	1500		118	3	PLUG DOWN - HELD
					CIRC. THRU JOB
			7.5		PLUG R.H. & M.H.
					JOB COMPLETE.
					THANKS -
					KEVIN LESLEY

10244 NE Hiway 61 • P.O. Box 8613 • Pratt, KS 67124-8613 • (620) 672-1201 • Fax (620) 672-5383

Taylor Printing, Inc. 620-672-3656

QUALITY W[illegible]L SERVICE, INC.

7213

Federal Tax I.D. # 481187368
Home Office 30060 N. Hwy 281, Pratt, KS 67124
Mailing Address P.O. Box 468

Office 620-727-3410
Fax 620-672-3663

Rich's Cell 620-727-3409
Brady's Cell 620-727-6964

	Sec.	Twp.	Range	County	State	On Location	Finish
Date 8-30-19	7	30S	11W	Barber	Ks		

Lease Dick Trust Well No. 1-7 Location Isabel Ks W side 100th Rd

Contractor WW Drlg Rig # 14

Type Job Surface

Hole Size 12¼ T.D. 236'

Csg. 8⅝ 24' Depth 236'

Tbg. Size Depth

Tool Depth

Cement Left in Csg. Shoe Joint 20

Meas Line Displace 13.7

EQUIPMENT

Pumptrk 8	No.	
Bulktrk 10	No.	
Bulktrk	No.	
Pickup	No.	

JOB SERVICES & REMARKS

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

Run 6 jts 8⅝ 24# CSG set @ 236
START CSG CSG on Bottom Hook up to CSG
Break Circ w/RIG
START Pumping 5 Bbls H2O
START Mix Pump 215 sx Common
2% Gel 3% CC ½# PS @ 14.6 #/gal
SHUT DOWN Release 8⅝ Wooden Plug
START DISP
Plug Down
Close Valve on CSG 150#
Good Circ thru JOB
Circ CMT TO Pit

Thank you
PLEASE Call AGAIN
TODD TJ JAKE

X Signature [illegible]

To Quality Well Service, Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Owner 1.7 S W into

Charge To Grand Mesa Operating Company

Street

City State

The above was done to satisfaction and supervision of owner agent or contractor.

Cement Amount Ordered 215 sx Common 2% Gel 3% CC ½# PS

Common	215 sx
Poz. Mix	
Gel.	404 #
Calcium	606 #
Hulls	
Salt	
Flowseal	10.7.5#
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	231
Mileage	25

8⅝ FLOAT EQUIPMENT

Guide Shoe	HEAD + manifold
Centralizer	8⅝ Wooden Plug 1 EA
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
	Service Supv 1 EA
	LMV 25#
Pumptrk Charge	Surface
Mileage	50
Tax	
Discount	
Total Charge	

Taylor Printing, Inc.

BASIC ENERGY SERVICES

Pratt Yard #1718
PO Box 8613
(620) 672-1201
Pratt, KS 67124

Field Ticket

Customer:	Grand Mesa Operating Company	Customer No:		Invoice No:	- 1718-18454 A
Address:	1700 N Waterfront Parkway, Bldg 600	AFE No:	-	P.O. No:	
City, State, Zip:	Wichita, KS 67206	Job Type:	8 Tank Slickwater	Stage #	1
Service District:	Pratt, Kansas	Well Type:	Oil		
Well Name and No:	Dick Trust 1-7	County/Parish:	Barber	State:	Kansas

Product Code	Price Code	Description	Unit of Measure	Quantity	List Price/Unit	Item Discount	Gross Amount	Net Amount
Products								
PB3050	0	30-50 Mesh Brown	Cwt	513.00				
PRC1630	0	Resin Coated, 16/30 mesh	Cwt	80.00				
FR102	0	BES: C-Plexslick 957	Gal	103.00				
SF104	0	BES: C-Plexsurf 580 ME	Gal	37.00				
BK103	0	BES: C-Plexgel Breaker XPA	Gal	30.00				
KCL114		BES: C-Clayplex 650	Gal	74.00				
BIO102	0	BES: C-Plexcide P5	Gal	15.00				
Equipment and Services								
ME102	0	Heavy Equipment Mileage	Mi	200.00				
ME101	0	Light Vehicle Mileage	Mi	40.00				
DC104	0	Proppant and Bulk Delivery Charges	Tn/Mi	593.00				
BE100	0	Pump Truck	hr	4.00				
BE105	0	Blender	hr	1.00				
BE125	0	Densiometer	hr	1.00				
BE119	0	Computerized Liquid Chemical Additive Unit	hr	1.00				
ME134	0	Generic Proppant Pump Charge	Cwt	593.00				
BE111	0	Sand Field Storage Unit	hr	1.00				
ME106	0	Rental: 4" Frac Valve	Job	1.00				
BE132	0	Treatment Van, (Computerized Data monitor	hr	1.00				
BE113	0	Iron Truck	hr	1.00				
BE143		Supervisor Charge	job	1.00				
BE144		Driver Charge	job	6.00				

TERMS: Cash in advance unless Basic Energy Services has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts may pay interest on the balance past due at the rate of 1 ½% per month or the maximum allowable by applicable state or federal laws if such laws limit interest to a lesser amount. In the event it is necessary to employ an agency and/or attorney to affect the collection of said account, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with BES becomes delinquent, BES has the right to revoke any and all discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount will become immediately due and owing and subject to collection.

Gross Amount	
Net Amount	
Customer Representative:	John Johnson
Basic Representative:	ML McGuire
Date os Service:	October 18, 2019

SERVICE ORDER: I AUTHORIZE WORK TO BEGIN PER SERVICE INSTRUCTIONS IN ACCORDANCE WITH TERMS AND CONDITIONS (INCLUDING INDEMNIFICATION OBLIGATIONS) LISTED HERE OR IN THE CUSTOMER CONTRACT FORM AND REPRESENT THAT I HAVE AUTHORITY TO ACCEPT AND SIGN THIS ORDER.

Customer Comments or Concerns:

All applicable Federal, State and Local Taxes will be added to final invoice.

Basic Energy Services appreciates any Comments, Concerns or Critisism's from our valuble customers as Safety and Customer Satisfaction are our Number 1 goal.

All comments are confidential and will be used in a constructive manner to improve our Safety and Job Performance. We welcome them as a useful tool to improve our service.

BASIC ENERGY SERVICES

Treatment Report

Customer:	Grand Mesa Operating Company	District:	Pratt, Kansas	Job #	1718-18454 A
Date:	10/18/2019	API #		Formation	Mississippi
Lease/Well Name:	Dick Trust 1-7	Well Type:	Oil	Field	
County, State:	Barber, Kansas	Job Type:	8 Tank Slickwater	Stage #	ZBZ 1

Well Data				Set From	Set To	Capacities		Totals	
Casing Size	5.50" 15.50#	BBL/FT	0.0238	0 ft	4,488 ft	Casing bbls	107 bbls	Clean	0 bbls
Casing Size		BBL/FT				Tubing bbls		Slurry	3,466 bbls
Tubing Size		BBL/FT				Flush Volume gals	4,486 gals	Proppant	0 lbs
Tubing Size		BBL/FT				Flush Volume bbls	106 bbls		
# of Perfs:	38	Perf Size:	0.40 in	Interval @	4,464 ft	4,488 ft			

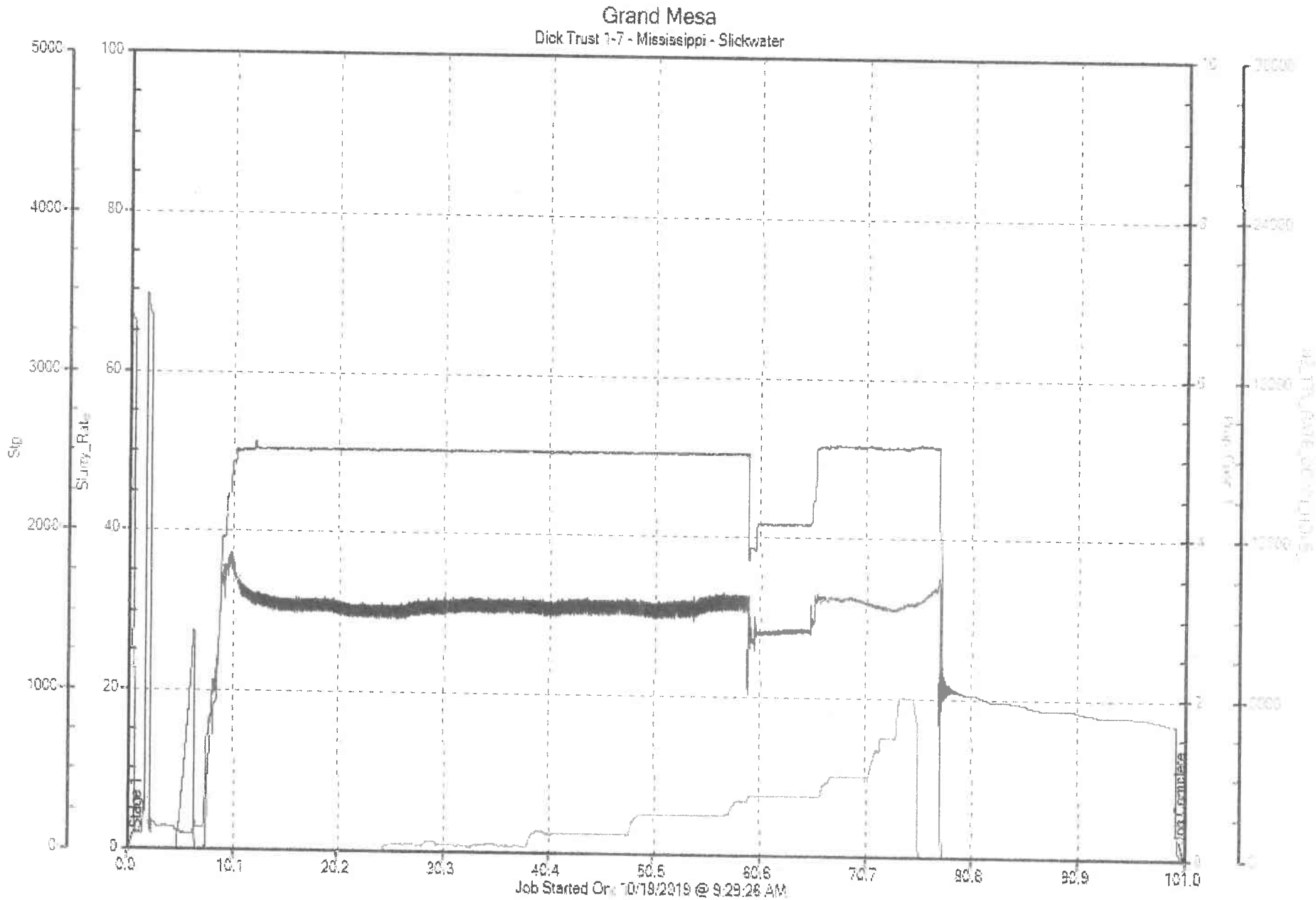
Job Details

Stage Name	Slurry BBLS	Stage Name	Slurry BBLS	Proppant	Total
				Start .1	0 lbs
				On Bottom	0 lbs
				Start .25	0 lbs
				Start .5	0 lbs
				Start .75	0 lbs

			Min	Max	Average				
ISIP	1080					Pumps on Location	4	Time	
5 Min	986	Treating Pressure	1,402 psi	1,626 psi	1,575 psi	Fluid Ends Lost	1		
10 Min	939	Treating Rate	42 psi	52 psi		Basic Energy Service Rep:	MLMcGuire		
15 Min	899	Frac Gradient		0.67 psi/ft		Customer Rep:			

Treatment Data

Time (Military)	STP	Rate	Clean BBLS Stage	Clean BBLS Total	Slurry BBLS Stage	Slurry BBLS Total	Proppant lbs Stage	Proppant lbs Total	Stage Name	Proppant	PPG
8:45										Safety Meeting	
9:29										Test Lines	
9:34	1,720 psi	50.2								Start Pad	
9:54	1,524 psi	50.4				833				Start .1	
9:56	1,495 psi	50.4				940				On Bottom	
10:08	1,589 psi	50.4				1,551				Start .25	
10:10	1,558 psi	50.5				1,658				On Bottom	
10:17	1,594 psi	50.4				2,033				Start .5	
10:19	1,545 psi	50.4				2,140				On Bottom	
10:26	1,570 psi	50.5				2,520				Start .75	
10:28	1,402 psi	41.7				2,627				On Bottom	
10:36	1,640 psi	51.2				2,889				Start 1#	
10:38	1,625 psi	51.6				2,996				On Bottom	
10:41	1,580 psi	51.6				3,138				Start 1.5	
10:43	1,570 psi	51.4				3,245				On Bottom	
10:43	1,590 psi	51.4				3,255				Start 2# Resin	
10:44	1,619 psi	51.6				3,359				Sart Flush	
10:44	1,626 psi	51.6				3,362				2# Resin On Bottom	
10:47	1,080 psi	0.0				3,466				Shut Down	


Grand Mesa
Dick Trust 1-7 - Mississippi - Slickwater
Stp
Slurry_Rate
5000
4000
3000
2000
1000
0
100
80
60
40
20
0
0.0
10.1
20.2
30.3
40.4
50.5
60.6
70.7
80.8
90.9
101.0
Job Started On: 10/19/2019 @ 9:29:26 AM

Company: Grand Mesa Operating Company
Lease: Dick Trust #1-7

SEC: 7 TWN: 30S RNG: 11W
County: BARBER
State: Kansas
Drilling Contractor: WW Drilling, LLC - Rig 14
Elevation: 1837 GL
Field Name: Harding Ext (1/4 S)
Pool: WILDCAT
Job Number: 383
API #: 15-007-24357

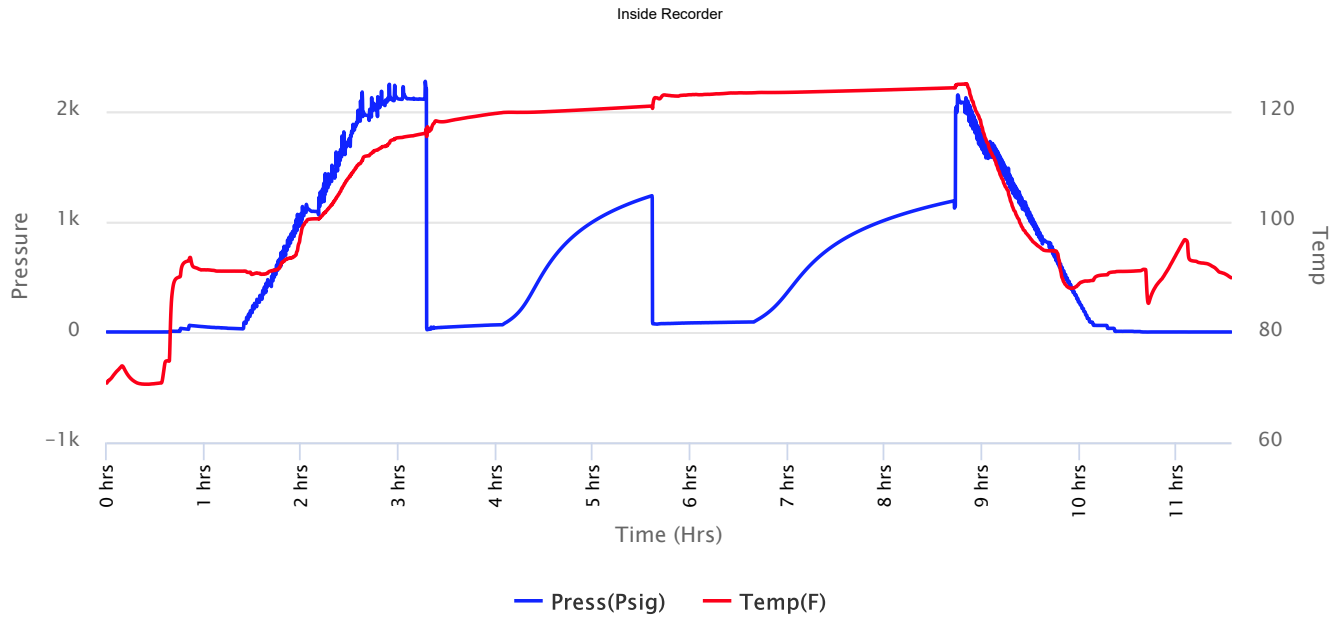
Operation:
Tripping out of hole with test tool

DATE
September
03
2019

DST #1 | **Formation: Mississippian** | **Test Interval: 4423 - 4501'** | **Total Depth: 4501'**

Time On: 07:30 09/03 | Time Off: 20:18 09/03
Time On Bottom: 10:42 09/03 | Time Off Bottom: 15:57 09/03

Electronic Volume Estimate:	1st Open	1st Close	2nd Open	2nd Close
469'	Minutes: 45	Minutes: 90	Minutes: 60	Minutes: 120
	Current Reading:	Current Reading:	Current Reading:	Current Reading:
	22.7" at 45 min	0" at 90 min	12.7" at 60 min	0" at 120 min
	Max Reading: 22.7"	Max Reading: 0"	Max Reading: 12.7"	Max Reading: 0"



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Lease: Dick Trust #1-7

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Time On Bottom: 10:42 09/03 Time Off Bottom: 15:57 09/03

Recovered

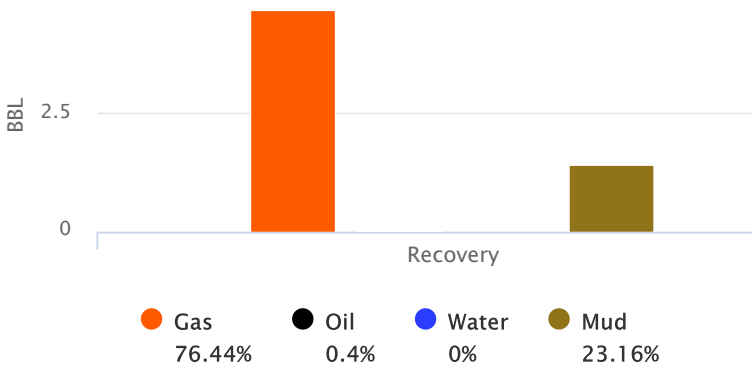
Foot	BBLS	Description of Fluid	Gas %	Oil %	Water %	Mud %
325	4.62475	G	100	0	0	0
116	1.1760562	SLOCM	0	1	0	99
63	0.30996	SLOCSLGCM	15	4	0	81

Total Recovered: 504 ft
Total Barrels Recovered: 6.1107662

Reversed Out
NO

Initial Hydrostatic Pressure	2095	PSI
Initial Flow	22 to 66	PSI
Initial Closed in Pressure	**1235**	**PSI**
Final Flow Pressure	75 to 91	PSI
Final Closed in Pressure	**1188**	**PSI**
Final Hydrostatic Pressure	2093	PSI
Temperature	125	°F
Pressure Change Initial Close / Final Close	3.8	%

Recovery at a glance



GIP cubic foot volume: 26.2267

Company: Grand Mesa Operating Company
Lease: Dick Trust #1-7

SEC: 7 TWN: 30S RNG: 11W
County: BARBER
State: Kansas
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Time On Bottom: 10:42 09/03 Time Off Bottom: 15:57 09/03

BUCKET MEASUREMENT:
1st Open: 1/4" Blow. BOB in 13 3/4 mins
1st Close: NOBB
2nd Open: 1/4" Blow. BOB in 55 mins
2nd Close: NOBB

REMARKS:

Tool Sample: 0% Gas 10% Oil 2% Water 88% Mud

Company: Grand Mesa Operating Company
Lease: Dick Trust #1-7

SEC: 7 TWN: 30S RNG: 11W
County: BARBER
State: Kansas
Drilling Contractor: WW Drilling, LLC - Rig 14
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DST #1 **Formation: Mississippian** **Test Interval: 4423 - 4501'** **Total Depth: 4501'**

Time On: 07:30 09/03 Time Off: 20:18 09/03
Time On Bottom: 10:42 09/03 Time Off Bottom: 15:57 09/03

Down Hole Makeup

Heads Up:	10.64 FT	**Packer 1:**	4418.09 FT
Drill Pipe: *ID-3 1/2*	4287.18 FT	**Packer 2:**	4423.09 FT
		Top Recorder:	4407.51 FT
Weight Pipe: *ID-2 7/8*	FT	**Bottom Recorder:**	4491 FT
		Well Bore Size:	7 7/8
Collars: *ID-2 1/4*	113.98 FT	**Surface Choke:**	1"
Test Tool: *ID-3 1/2-FH* *Jars* *Safety Joint*	33.57 FT	**Bottom Choke:**	5/8"
Total Anchor:	77.91		

Anchor Makeup

Packer Sub:	1 FT
Perforations: (top): *4 1/2-FH*	1 FT
Change Over:	.5 FT
Drill Pipe: (in anchor): *ID-3 1/2*	63.41 FT
Change Over:	1 FT
Perforations: (below): *4 1/2-FH*	11 FT

Company: Grand Mesa Operating Company
Lease: Dick Trust #1-7

SEC: 7 TWN: 30S RNG: 11W
County: BARBER
State: Kansas
Drilling Contractor: WW Drilling, LLC - Rig 14
Elevation: 1837 GL
Field Name: Harding Ext (1/4 S)
Pool: WILDCAT
Job Number: 383
API #: 15-007-24357

Operation:
Tripping out of hole with test tool

DATE
September
03
2019

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Mud Properties

Mud Type: Chem **Weight:** 9.4 **Viscosity:** 45 **Filtrate:** 8.8 **Chlorides:** 6000 ppm

Company: Grand Mesa Operating Company
Lease: Dick Trust #1-7

SEC: 7 TWN: 30S RNG: 11W
County: BARBER
State: Kansas
Drilling Contractor: WW Drilling, LLC - Rig 14
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Gas Volume Report

1st Open

Time	Orifice	PSI	MCF/D

2nd Open

Time	Orifice	PSI	MCF/D

Pro-Stim Chemicals LLC

Acidizing Report

Date: 9-19-19

Customer: GRAND MESA
Pro-Stim Chemical Yard: CUNNINGHAM
Pro-Stim Number: A-6
Well Name & Number: DICK TRUST #1-7
Formation:
County: BARBER
State: KS
Interval: 4414 - 88

Well Type: Completion ☒ Recompletion ☐ Workover ☐ Oil ☐ Gas ☐ Water ☐ Disposal ☐ Perf ☐ OH ☐

Job Pumped Via: Tubing ☒ Casing ☐ Annulus ☐ CTU ☐ Combination ☐
Plug Depth:
Packer Depth: 4429

Casing Size	GRD	WT	Depth	Tubing Size	Spot
5 1/2				2 7/8	

Casing Vol.	Tbg Vol	Ann Vol	OH Vol	Total Displacement
1.4	25.4			27.05

250 15% MCA, 3 gals RAS, 30 bbls 2% KCL flush
1,500 10% NE/FE Acid, 20 gals RAS-10, 40 bbls 2% KCL Biocide

Customer Representative Signature

Treatment Record

Observations/Descriptions	Time	Type Fluid	Rate BMP	Increment Vol Bbls	Cum Vol Bbls	Pressure Tubing	Pressure Casing
250 15% MCA TREAT	4	FLUSH	3.6		16.0	0	0
LOADED	7	"	0		26.5	10	0
	8	"	0		26.8	500	0
	14	"	0		27.6	800	0
BROKE @ 60PSI	16	"	1.0		27.9	160	0
	20	"	1.0		31.9	660	0
1.8 BPM @ 600 PSI	23	"	0		35.0	640	0
1,500 10% NE/FE	1	ACID	3.4		3.4	0	0
45 BALL SEALERS START 3 BALLS	3	"	3.4		10.0	0	0
1/bbl	7	"	3.4		23.3	0	0
LOADED	8.5	"	.75		28.2	10	0
	11	"	1.1		30.8	430	0
	13	"	1.5		33.2	510	0
36 bbls/BALLS @ PERFS	17	FLUSH	2.0		40.9	510	0
	21	"	2.5		50.4	630	0
	23	"	3.0		55.8	730	0

Directions		Product	Qty	Product	Qty	Product	Qty
	25	"	3.0		61.8	760	
	27	"	3.0		67.9	790	
Operator Name:	29	"	0		74.0	800	
Unit #:							
Hours:							

Treatment Synopsis

Avg Inj Rate	Fluid BPM 2.0		Total Injected	H2O 39	Acid 36	Oil 6	
Treating Prs	Max 800	Final 800	Avg. 800	ISIP 500	5'SI 160	~~10'~~ VAC	15'SI
					20	25	30

UAR-1

David A. Barker
CONSULTING GEOLOGIST

Geologist's Report
Drilling Time and Sample Log

OPERATOR Grand Mesa Operating Company
FIELD Wildcat
LOCATION 1665' FSL & 2360' FEL
SEC. 07 TWP. 36S RGE. 11W
COUNTY Barber STATE Kansas
CONTRACTOR Murfin Drilling Rig #114
SPUD 8/29/2019 COMP 09/05/2019
RTD 5020 LTD 5015
ELEVATION KB 1848' DF GL 1837'
ELECTRICAL SURVEYS

REFERENCE WELL FOR STRUCTURAL POSITION

GEOLOGIST

Name: David A. Barker
Company:
Address: 212 N. Market, Suite# 320
Wichita, Kansas 67202
(316) 259-4294, 2 Barker@sbcglobal.net

OPERATOR

Company: Grand Mesa Operating Co
Address: 1700 N. Waterfront Parkway
Wichita, Kansas 67206-5514

Contractor

Murfin Drilling Rig #1-14, 250 N. Water, Ste 300
Wichita, Kansas 67202

Daily Status

08/29/19 MIRU of Murfin Rig #114. Spud @ 10:30 p.m.; Ran 6 jts of new J-55 24# 8 5/8" surface csg., Tally 222.06', Set @ 236' KB, strapped and welded. Cemented w/251sx Common, 3% CC, 2% Gel.

08/30/19, Plug down @ 2:15 a.m. Witnessed by Quality Cementing, cement did circulate. Survey .75° deg. @ 236'. Current operation at 7:00 a.m. 236'; Footage last 24 hrs: 236'; Current operation is WOC.

08/31/19, Current depth at 7:00 a.m. 1740'; Footage last 24 hrs 1504'; Current operation is drilling ahead. Survey .75° @ 1264'.

09/01/19, Current depth at 7:00 a.m. 3020'; Footage last 24 hrs 1280'; Current operation is CFS. Survey .75° @ 2787'. Lost circulation @ 2280' (50bbls). Displaced @ 2882'-2913' (65bbls).

09/02/19, Current depth at 7:00 a.m. 4121'; Footage last 24 hrs 1101'; Current operation is drilling ahead. Survey .25° @ 3263'.

09/03/19, Current depth at 7:00 a.m. 4501'; Footage last 24 hrs. 380'; Current operation is TIH for DST #1. Short trip @ 4501' pulled 33 stds (tight in a few spots).

MISSISSIPPIAN FORMATION – DST #1 (4423'–4501') 45-90-60-120

1st open: 1/4" blow. Bottom of bucket in 13 3/4 min. No blow back.
2nd open: 1/4" blow. Bottom of bucket in 55 mins. No blow back.

REC: Total Fluid 179':
325' GIP
116' SLOCM (1%O, 99%M)
63' SLOCSLGCM (15%G, 4%O, 81%M)
IFP: 22-66#; FFP: 75-91#, SIP: 1235-1188#, Temp. 125 deg.

09/04/19, Current depth at 7:00 a.m. 4786'; Footage last 24 hrs. 285'; Current operation is drilling ahead.

09/05/19, Current depth at 7:00 a.m. 5020'; Footage last 24 hrs. 234'; Current operation is CTCH. Survey 1° @ 5020'. Short trip @ 5020, pulled 20stds.

09/05/19, RTD 5020', LTD 5015'
(con't) Ran 120 jts 5 1/2", 15.5# casing, Tally 5111', Set @ 5008'. PBTD @ 4986'. Plug down @ 6:45 p.m. Cemented with 210sxs total (160sxs Pre AA2 & 50sxs 60/40 Pozmix).
Cemented the Rat hole and Mouse hole w/50sxs 60/40 Pozmix (Rat hole with 30sxs and 20sxs in Mouse hole).
Cementing done by Basic Services.

EQUIPMENT RAN:

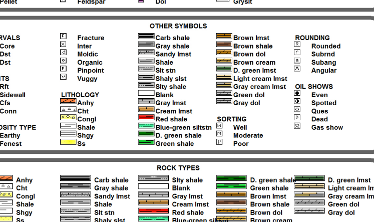
8 Centralizers
1 Basket
Guide Shoe
Float baffle w/latch down plug

Rig released @ 10:45 p.m.

Remarks

Due to the good oil and gas sample shows of the Upper Mississippian interval from 4460 to 4501, DST results and the Electric log calculations for this interval, 5 1/2" production casing was cemented to a depth of 5008' to further test this interval.

DST #1. Test interval: 4423 to 4501', Mississippian
60"-90"-90"120"1st Open: 1/4 Blow, BOB in 13 3/4 min, 2nd Open: 1/4" blow, BOB 55 minutes, REC: 325 GIP, 116' SLOCM, 63' SLOCSLGCM, BHP 1235# to 1188#, IFP: 22# to 66#, FFP: 75# to 91#, IHP 2095# to 2093# BHT 125 F



ACCESSORIES

FOSSIL		MINERAL		STRINGER	TEXTURE
Algae	Pisolite	Anhy	Ferrpel	Sand	Lms
Amph	Plant	Arggrn	Ferr	Slty	Sandylms
Belm	Strom	Arg	Glau	Anhy	Sh
Bioclst	Fuss	Bent	Gyp	Arg	Sltstn
Brach	Oomold	Bit	Hvymin	Bent	Boundst
Bryozoa		Brecfrag	Kaol	Coal	Chalky
Cephal		Calc	Marl	Dol	Cryxln
Coral		Carb	Minxl	Gyp	Earthy
Crin		Chtdk	Nodule	Ls	Finexln
Echin		Chtlt	Phos	Mrst	Grainst
Fish		Dol	Pyr	Sltstrg	Lithogr
Foram		Feldspar	Salt	Ssstrg	Microxln
Fossil			Sandy	Carbsh	Mudst
Gastro			Silt	Clystn	Packst
Oolite			Sil	Dol	Wackest
Ostra			Sulphur	Grysh	
Pelec			Tuff	Gryslt	
Pellet			Chlorite		
			Dol		

OTHER SYMBOLS

INTERVALS				ROUNDING
Core	Fracture	Carb shale	Brown lmst	Rounded
Dst	Inter	Gray shale	Brown shale	Subrnd
Dst	Moldic	Sandy lmst	Brown dol	Subang
EVENTS	Organic	Shale	Brown cream	Angular
Rft	Pinpoint	Slt stn	D. green lmst	OIL SHOWS
Sidewall	Vuggy	Shaly slst	Light cream lmst	Even
Cfs	LITHOLOGY	Slty shale	Gray cream lmst	Spotted
Conn	Anhy	Blank	Green dol	Ques
POROSITY TYPE	Cht	Gray lmst	Gray dol	Dead
Earthy	Congl	Cream lmst	SORTING	Gas show
Fenest	Shale	Red shale	Well	
	Shgy	Blue-green siltstn	Moderate	
	Ss	D. green shale	Poor	
		Green shale		

ROCK TYPES

Anhy	Carb shale	Slty shale	D. green shale	D. green lmst
Cht	Gray shale	Blank	Green shale	Light cream lmst
Congl	Sandy lmst	Gray lmst	Brown lmst	Gray cream lmst
Shale	Shale	Cream lmst	Brown shale	Green dol
Shgy	Slt stn	Red shale	Brown dol	Gray dol
Ss	Shaly slst	Blue-green siltstn	Brown cream	

Curve Track 1: ROP (min/ft) | MD | Porosity (24% 18% 12% 6%) | Lithology | Geological Descriptions | TG, C1-C5: TG, C1 (units), C2 (units), C3 (units), C4 (units), C5 (units)

Geological Descriptions

LS: gray, finexyln, dense, no visable porosity, Shale: gray LS: gray/cream, finexyln, with dark gray/black pellitiods, LS: buff, finexyln, fusilinid rich

LS: dark gray, mealy, finexyln, no visable porosity, LS: cream, finexyln, no visable porosity, dense, poor interxyln porosity.

LS: light gray, mott, finexyln, no visable porosity, Shale: gray, Shale: red, sct LS: cream fosssil hash, oolitic.

Shale: blue green, LS: gray/brown, microxyln, very dense, mott. in part cherty in part.

LS: light brown, microxyln, friable with redish brown flecks, no fluorescence no odor, suto oil stain, Shale: dark gray

Shale: gray, LS: dirty gray/microxyln, dense, LS: light brown, microxyln, fossiliferous, dense packstone, slight visable porosity, LS: gray, microxyln, very dense, mineral fluorescence from the sample

Shale: blue green to gray, LS: gray/brown, mottled, microxyln with dark brown flecks, LS: gray, microxyln, dense

Shale: gray to dark gray with fusilinid fragments, LS: gray, mott, fossile fragments, no visable porosity, dense

Shale: gray/ green, SD, STN: dirty gray, fine grain, micaceous, friable, mostly barren when chrushed only one piece with gas bub. when chrushed, no fluorescence. LS: dirty gray, fossiliferous packstone.

SD. STN: dirty gray, fine grain, micaceous, friable, no show, no fluorescence.

LS: buff, microxyln, very dense, cryptoxyln, blocky, LS: light gray, microxyln, dense

Shale: dark gray, gritty

Shale: dark gray, gritty, LS: dirty gray/brown, fossiliferous, shaley,

Shale: gray gritty, LS: dark gray/buff, mottled, finexyln, poor interxyln porosity

Shale: gray, gritty, LS: dark gray/buff, mott, finexyln, poor interxyln porosity, fossil fragments,

Shale: gray to dark gray massive

Shale: dark gray, silty, LS: cream, finexyln, poor interxyln porosity

LS: gray/buff, microxyln, dense, no visable micro fossils, sample mostly gray shale

LS: cream, finexyln, oolitic packstone in part, LS-medium gray, finexyln, poor interxyln porosity,

LS: dark brown, microxyln, very dense, LS: gray/buff to gray, finexyln, poor interxyln porosity, mott. dense in part

LS: cream to light gray, microxyln, finexyln, poor interxyln porosity, friable streaks, LS: cream/brown, microxyln, cryptoxyln with scattered chlorite

LS: cream/buff, finexyln, poor interxyln porosity, streaks of increase in interxyln porosity and or sub chauky streaks, cryptoxyln, to include fossils hash with slight visable porosity, Shale: gray

Shale: gray, LS: brownish/gray very dark in part, microxyln to finexyln, streaks of fossile fragment, cryptoxyln, poor interxyln porosity, LS: cream, finexyln, Shale: gray, blocky

LS: white to off white, chky, LS: cream to buff, finexyln, no visable porosity, firm streaks of cryptoxyln, LS: light gray, poor interxyln porosity cherty in part.

LS: dirty buff, finexyln, poor visable porosity, scattered oolitic streaks with slight visable porosity, no show, cherty in part, Shale: gray

LS: buff/cream, finexyln to microxyln, very dense in part, streaks of cryptoxyln, no show

LS: dark brown microxyln, dense, silty in part

Shale: gray, silty, laminar

LS: light brown, medium microxyln, fair visable porosity, fair interxyln porosity, slight visable oolmoldic porosity, cryptoxyln, LS: gray to dark brown, microxyln, very dense, Shale: gray, gritty, fossiliferous

3422 30 min. ctr sample: LS: cream, finexyln, chky in part, streaks of coarsexyln porosity, LS: light gray, microxyln, very dense, scattered random vuggy porosity.

LS: brown, oolitic packstone, good visable oolitic porosity, friable, no show, LS: light cream/brown, finexyln, poor interxyln porosity, random visable porosity,

flood of: LS: cream to cream/gray, finexyln, to microxyln, sct visable vugs random to no fluorescence, no fluorescence, no interxyln porosity, fluorescence to streaks of friable porosity

flood of: Shale: black, LS: dark brown, very dense, microxyln.

LS: dirty gray, microxyln, dense, silty, Shale: gray to black carboniferous, limy in part

Shale: gray, LS: gray/buff, microxyln, dense, blocky, Shale: black

Siltstone: dirty gray, fine grain, micaceous, no show, LS: buff/cream/brown, microxyln, very dense

flood of: Siltstone: dirty gray, fine grain, poor intergranular porosity, no show, no fluorescence, micaceous.

Siltstone: dirty gray, fine grain, poor intergranular porosity, no show, no fluorescence, micaceous. LS: buff, cream to cream/gray, finexyln, no visable porosity

LS: dark gray, microxyln, dense, Shale: gray, gritty in part LS: dirty gray/cream, finexyln, no visable porosity

Shale: black, dense, LS: dark brown, microxyln, Shale: gray, LS: cream/gray, microxyln, dense, no visable porosity

Shale: green/gray, silty, soft, Shale: black

LS: cream to buff, finexyln, poor interxyln porosity, no visable porosity, no fluorescence, sct chky pieces, SD.STN: light gray, fine grain, no show

Siltstone: dirty gray, very fine grain, micaceous, friable, no show, random gas bubbles when chrushed, Shale: light gray

Shale: gray with dirty gray siltstone, friable, micaceous, no show, shaley

Shale: gray with dirty gray siltstone, friable, micaceous, no show, shaley

Siltstone: dirty gray, dense, micaceous, no show, Shale: gray

Shale: gray

LS: dirty buff to dark brown, microxyln, oolitic fossile hash,

LS: cream, finexyln, fossiliferous, poor interxyln porosity, LS: dark brown, oolitic pack stone, microxyln, dense. LS: dark gray, microxyln, dense

LS: dark brown to dark gray, microxyln, dense, poor interxyln porosity, LS: brown/cream to cream/gray, finexyln, mott, poor interxyln porosity, cherty in part

LS: cream/buff, finexyln, poor interxyln porosity, friable streaks, chauky in part. Chert: light/gray

LS: white, chaulky, LS: cream/buff, finexyln, fair interxyln porosity, friable in part. LS: dirty gray/buff in part, finexyln, oolitic.

LS: white, chalky, LS: cream/gray, finexyln, friable in part LS: brown, finexyln, mott in part, microxyln, very dense in part, Chert: gray

LS: gray/blond, microxyln, chky in part

LS: dark brown, microxyln, very dense, no visable porosity, Shale: black, LS: gray/brown, microxyln, dense

LS: buff, microxyln, dense, LS: gray/buff, microxyln, dense, no visable porosity

LS: white, chky, LS: cream/buff, finexyln, poor interxyln porosity.

Chert: gray, semi clear, sharp, mott, LS: cream/buff/gray, microxyln, dense, cherty inpart

LS: gray/buff to dirty gray, finexyln, poor visable porosity, sct friable streaks, mud stone.

LS: light brown, microxyln, dense, oolitic, fair sct visable oolitic porosity, no show, poor interxyln porosity, Shale: gray, LS: medium colored gray/brown, mott, dense poor interxyln porosity

LS: cream to buff, finexyln, friable in part, no visable porosity, fair interxyln porosity, cherty in part. Chert: gray, semi translucent, LS: coarsexyln, slight vuggy porosity no show

Shale: gray, Chert: brown to gray,

LS: dark brown, microxyln, dense, Chert: dense, brown, sharp, LS: dark gray/black, pyritic, Shale: gray

very slight odor from sample no fluorescence, and or no stain, LS: white chky, LS: very dense, gray, microxyln, dense, shale: dark gray

slight odor from sample, no fluorescence, LS: cream finexyln, slight edge stainvery slight show of free oil under black light when chrushed, scattered edge stain LS: white chky,

4270 30 min. ctr sample: LS: cream, finexyln, chky, porosity, poor interxyln porosity, dull fluorescence, scattered fair show of free lazey oil when chrused, "wet" 4270 60 min ctr sample: slight odor from sample decrease in lazey oil show.

Shale: black carboniferous, LS: brown, dense, microxyln, LS: tan, microxyln, dense

LS: cream to buff, finexyln, no visable porosity, poor interxyln porosity, chalky in part, fair mineral fluorescence, no show of free oil, no odor from sample, Shale: black.

LS: brown to cream/brown, microxyln, dense, platey, LS: light gray, microxyln, very dense, Chert: black, Shale: black, massive

LS: gray/brown, gray/cream, finexyln, no visable porosity, Shale: gray

Shale: gray/green, silty, soft. Siltstone: gray/green, very fine grain, soft. Chert: red

Shale: red to marron, LS: tan, to dark red to dark brown, microxyln, dense

Shale: red to gray/green, Chert: tan

Shale: red to gray and gray and green, LS: redish gray/tan microxyln, mudstone

LS: cream finexyln, no visable porosity, Shale: gray with soft gray/green red in part

LS: cream, finexyln, no visable porosituy, Shale: gray, and soft green shale in part Shale: red

sample mostly red shale, mottled very dense in part, massive, mixed with streaks of white shale, scattered anhydrite, scattered dense

Chert: white to clear, scattered tripolitic with fair visible porosity with even staining, mixed with fossiliferous cherty packstone, slight visible porosity with light even stain, Chert: white, sub blocky with random vuggy visible porosity, scattered even stain, slight cut, slight show of free oil in sample tray or free oil when samples are chrused, slight odor from sample dull to fair fluorescence, scattered clear chert rubble good intergranular porosity heavy dark brown stain. Chert: white with oil under black slow heavy streaming cut.

Chert: White, massive, sharp, scattered edge porosity, spotted blotchy stain, scattered heavy black stain, streaks of friable porosity, no to very weak fluorescence, no odor.

Chert: White, massive, sharp, scattered edge porosity, spotted blotchy stain, scattered heavy black stain, streaks of friable porosity, no to very weak fluorescence, no odor. LS: brown, microxyln, very dense

LS: gray/brown, microxyln, dense,

LS: brown, microxyln, very dense

Shale: gray, dense

Shale: gray, silty

Shale: gray

Shale: gray to dark gray

Flood of Shale: dark brown, with fluorescent spores

LS: buff/cream, coarse xyln, mottled, friable in part no show, Chert: smoky brown, sharp semi trans, dark brown flecks.

LS: dark brown medium grained, poor interxyln porosity. Chert: dove gray, blocky with dark gray flecks.

Chert: semi trans brown, smoky, semi trans with dark brown flecks, LS: cream, fine xyln, poor interxyln porosity, no show

LS: cream/buff, finexyln, mealy, cherty, poor interxyln porosity. Chert: brown, semitrans, sharp, with dark brown flecks

LS: buff/cream, coarsexyln, fossile fragments, friable in part, mottled.

flood of: Shale: emerald green, massive. LS: light gray/buff, coarse xyln, friable in part no show.

Shale: blue green, SD, STN: gray/green to white/green, shaley, fine grain streaks, poorly sorted, subrounded, streaks, no show, SD.STN: clear grained, medium grained, good intergranular porosity, subrounded clusters, SD.STN: dirty cream to gray green, subangular, friable, dolomitic in part, no show,

Shale: green, waxey, random imbeded quartz grains, scattered pyritic

Dolomite: Brown, fine granular, poor intergranular porosity, scattered slight visable vuggy porosity, friable mineral fluorescence from sam sample

Dolomite: Brown, fine granular, poor intergranular porosity, scattered included rounded quartz grains.

Dolomite: light brown, fine granular, poor intergranular porosity. Dolomite: dark brown, very fine granular, no visable porosity, dense, poor intergranular porosity