

Confidentiality Requested:

Yes No

Kansas Corporation Commission Oil & Gas Conservation Division

1215652

Form ACO-1 August 2013 Form must be Typed Form must be Signed All blanks must be Filled

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #	API No. 15				
Name:	Spot Description:				
Address 1:	SecTwpS. R 🗌 East 🗌 West				
Address 2:	Feet from North / South Line of Section				
City: State: Zip:+	Feet from _ East / _ West Line of Section				
Contact Person:	Footages Calculated from Nearest Outside Section Corner:				
Phone: ()	□NE □NW □SE □SW				
CONTRACTOR: License #	GPS Location: Lat:, Long:				
Name:	(e.g. xx.xxxxxx) (e.gxxx.xxxxxxx)				
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84				
Purchaser:	County:				
Designate Type of Completion:	Lease Name: Well #:				
☐ New Well ☐ Re-Entry ☐ Workover	Field Name:				
Oil WSW SWD SIOW Gas D&A ENHR SIGW OG GSW Temp. Abd. CM (Coal Bed Methane) Cathodic Other (Core, Expl., etc.): If Workover/Re-entry: Old Well Info as follows:	Producing Formation: Kelly Bushing: Total Vertical Depth: Plug Back Total Depth: Feet Multiple Stage Cementing Collar Used? Yes No If yes, show depth set: Feet				
Operator:	If Alternate II completion, cement circulated from: sx cmt.				
Well Name: Original Comp. Date: Deepening Re-perf. Conv. to ENHR Conv. to SWD Plug Back Conv. to GSW Conv. to Producer	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)				
Commingled Permit #:	Chloride content: ppm Fluid volume: bbls Dewatering method used: Location of fluid disposal if hauled offsite: Operator Name:				
GSW Permit #:	Lease Name: License #:				
Spud Date or Date Reached TD Completion Date or Recompletion Date Recompletion Date	Quarter Sec. Twp. S. R. East West County: Permit #:				

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY						
Confidentiality Requested						
Date:						
Confidential Release Date:						
Wireline Log Received						
Geologist Report Received						
UIC Distribution						
ALT I I II Approved by: Date:						

Sec Twp S. R East West County:	erator Name:		Lease Name:	Well #:			
open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recover 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 files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF). Drill Stem Tests Taken	TwpS. R	_	County:				
files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF). Drill Stem Tests Taken	n and closed, flowing and shut-in p	ssures, whether shut-in pre	essure reached stati	c level, hydrosta	tic pressures, bott		
(Attach Additional Sheets) Samples Sent to Geological Survey				gs must be ema	iled to kcc-well-lo	gs@kcc.ks.go	v. Digital electronic log
Samples Sent to Geological Survey Cores Taken Electric Log Run Yes No Yes No Yes No		Yes No			on (Top), Depth an		
Electric Log Run Yes No	nples Sent to Geological Survey	Yes No	Name	Э		Тор	Datum
List All E. Logs Run:							
	All E. Logs Run:						
CASING RECORD New Used Report all strings set-conductor, surface, intermediate, production, etc.					on etc		
Size Hele Size Casing Weight Setting Tune of # Seeks Time and Person	Size Hole	· -		· · · · · · · · · · · · · · · · · · ·		# Sacks	Type and Percent
Purpose of String Drilled Set (In O.D.) Lbs. / Ft. Depth Cement Used Additives							
ADDITIONAL CEMENTING / SQUEEZE RECORD		ADDITIONAL	L CEMENTING / SQU	EEZE RECORD	I		
Purpose: Perforate Protect Casing Plug Back TD Depth Top Bottom Type of Cement # Sacks Used Type and Percent Additives # Sacks Used Type and Percent Additives	Perforate Top Bottom Protect Casing	# Sacks Used	# Sacks Used Type and Percent Additives				
Plug Off Zone							
Did you perform a hydraulic fracturing treatment on this well? Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No (If No, skip questions 2 and 3) (If No, skip question 3) Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No (If No, skip question 3)	s the volume of the total base fluid of the	ydraulic fracturing treatment ex		Yes	No (If No, ski	p question 3)	
Shots Per Foot PERFORATION RECORD - Bridge Plugs Set/Type Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth							d Depth
				(,		Contact Cooper	Sop
TUBING RECORD: Size: Set At: Packer At: Liner Run: Yes No	3ING RECORD: Size:	Set At:	Packer At:	Liner Run:	Yes No		
Date of First, Resumed Production, SWD or ENHR. Producing Method: Flowing Pumping Gas Lift Other (Explain)	e of First, Resumed Production, SWD o			Gas Lift □ ∩	Other (Explain)		
Estimated Production Per 24 Hours Oil Bbls. Gas Mcf Water Bbls. Gas-Oil Ratio Gravity	=					as-Oil Ratio	Gravity
DISPOSITION OF GAS: METHOD OF COMPLETION: PRODUCTION INTERVAL:	DISPOSITION OF GAS:		METHOD OF COMPLE	TION		PRODI ICTIO	ON INTERVAL:
Vented Sold Used on Lease Open Hole Perf. Dually Comp. (Submit ACO-4) (If vented, Submit ACO-18.)	Vented Sold Used on Le		Perf. Dually	Comp. Cor		THODOGIN	ZIVIIVI EI IVAE.

Form	ACO1 - Well Completion				
Operator	Mull Drilling Company, Inc.				
Well Name	Byrd 1-23				
Doc ID	1215652				

All Electric Logs Run

CDL/CNL/PE	
DIL	
MEL	
SONIC	

Form	ACO1 - Well Completion				
Operator	Mull Drilling Company, Inc.				
Well Name	Byrd 1-23				
Doc ID	1215652				

Tops

Name	Тор	Datum	
Anhydrite	1490	+ 727	
B/Anhydrite	1532	+ 685	
Heebner	3680	- 1463	
Lansing	3727	- 1510	
Stark	4014	- 1797	
B/KC	4077	- 1860	
Marmaton	4113	- 1896	
Ft. Scott	4243	- 2026	
Cherokee Shale	4268	- 2051	
Cherokee Sand	4347	- 2130	
Mississippian	4373	- 2156	

Form	ACO1 - Well Completion				
Operator	Mull Drilling Company, Inc.				
Well Name	Byrd 1-23				
Doc ID	1215652				

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Type and Percent Additives
Surface	12.2500	8.62500	23	214	Common	3% cc, 2% gel

→ MDC NESS

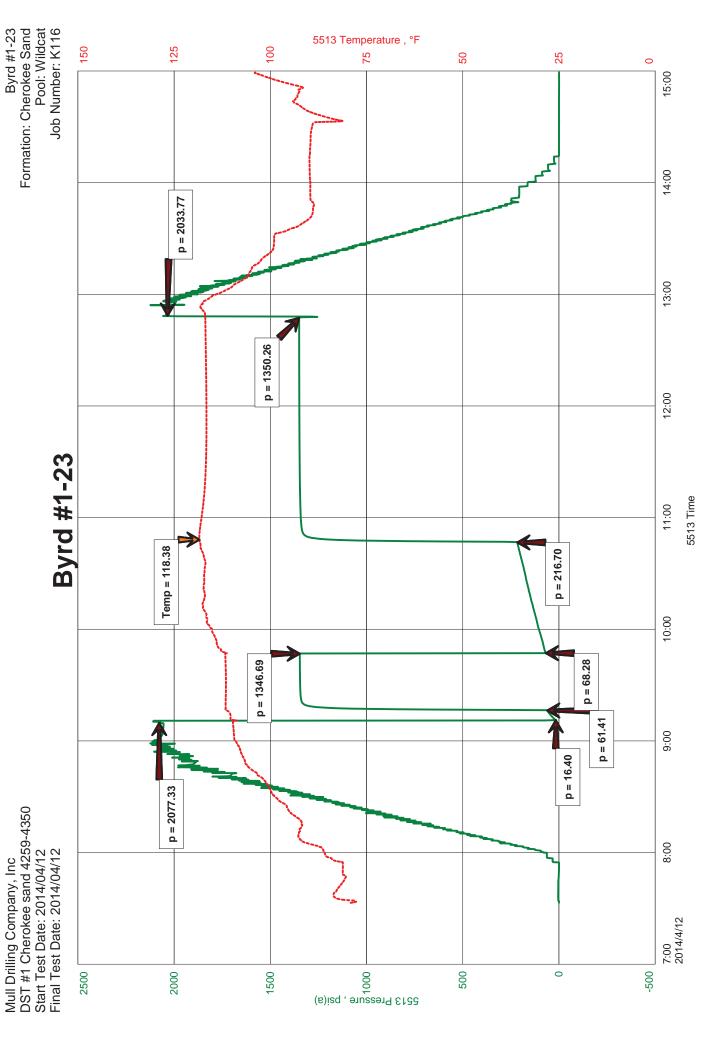
ALLIED OIL & GAS SERVICES, LLC 062906

Federal Tax I.D. # 20-8651475

EMIT TO P.O. B			ຄາ	SERVICE POINT: Great Bendales					
\$001F	ILAKE, I	EXAS 760	74						
DATE 4-7-14	SEC.	TWP.	RANGE 274	CALLED OUT	ONLOCATION	JOB START	108 FINISH		
	WELL#		LOCATION AVEL	ere ue	4/125	COUNTY 1645	STATE		
CLD OR MEW (CI			Location Appl	479					
						_			
		2111129	F 10	OWNER					
TYPE OF JOB HOLE SIZE /	7/14	T.D		CEMENT					
CASING SIZE	649		PTH 207.63		DERED <u>150</u>	5P5 C1	ass A		
TUBING SIZE		DE	PTH	34.00.2	rigel				
	4/2		PTH						
TOOL			PTH	COMMON	150	@17.90	2.685.00		
PRES MAX			MUMIN TAIOL 30	COMMON POZMIX	750	- @ 			
MEAS. LINE CEMENT LEFT II	N CEC	15tz	OE JOIN!	GEL GEL	3	@ 23.40	70.20		
PERFS.	<u> </u>	() ()		CHLORIDE	423	Ø. 80	338, 20		
DISPLACEMENT	12	27-14-1	fresh was	- 'A5C-					
Digi Briceria.		UIPMENT					_		
	EQ	OTEINENAT				@	_		
DIM AD TRACE	CELLER	reo 🗥	arca Chantel						
PUMPTRUCK # 39%		Jo54				@			
	HELPEK								
# 57-1/2	DRIVER	0000	Mon Cayo (Tus	-					
BULK TRUCK	DRIVER		- No Ellys			@			
#	DRIVER			- HANDLING	11245	-@ 2.48	401.58		
11				MILEAGE 7	·VIX/OX	2.60	112-4 300.00		
	nd	DEADYS.			569.34/15	3	13.795. 58		
_		MARKS:		•	2012/10/	,-5 (OIA	5.770		
Brookercal			undd		SERV	nce.			
prop 5 65/4			Ac. /	_	SERV	ICE			
Mr. 150 G/		To Cach	nord 15hot 1	DEPTH OF J	לפכ פר				
100 place 1		culer	AND Q 1 3180 1 E	PUMPTRUC		1512-25	2		
Olyn Don		45 pm		EXTRA FOO		@			
Bro Dom	4			MILEAGE /		@ 7.70	77-00		
* * * * *				MANIFOLD					
					vm 10	_ ® त्र∙त्रठ	44.00		
				·········	Carrier Caler	(®			
CHARGE TO:	Mal! D	Poilling		(244.98/15	70)	u <u>1.633 . ³³</u>		
STREET	_				,	1017	L /1025		
CITY	S	TATE	ZIP	_	PLUG & FLO	AT EQUIPMI	ENT		
						@			
			3		-52-77				
To: Allied Oil d	€ Gas Ser	vices, LL	برگر 			@			
You are hereby	requested	l to rent ce	menting equipmen	14		@			
and furnish cen	nenter and	helper(s)	to assist owner or		(0%)				
contractor to do	work as	is listed.	The above work w	as	0 1 3	TOT	AL		
done to satisfac	tion and s	supervisio	n of owner agent o	i Le					
contractor. I ha	IAC LESSI S.	na undersi Ioniet dat	tand the "GENERA ed on the reverse 5	ide SALES TAX	(If Any)	612			
IERMS AND	COMPIN	OTAS TIPE	LA OR BIG 1979139 3	TOTAL CHA	RGES S. Y.	18. 32	·		
	_	10 1L	26/2	IOGALUM	8	IY. 35	(15%)		
PRINTED NAM	EXC	in the	zuringen	DISCOUNT		<u>if E</u>	AID IN 30 DAYS		
		61 - 1	, •		y. Lol	4.5/	<u> </u>		
SIGNATURE _	\times	Hell	روس :		1	4			
	70	10 /2.	19						
۷	1 han	1/100	12.3						

T.

C:\Users\Roger Friedly\Desktop\byrd1dst1 12-Apr-14 Ver





JASON MCLEMORE

CELL # 620-617-0527

General Information

Company Name Mull Drilling Company, Inc

Contact Mark Shreve Job Number K116 **Well Name** Byrd #1-23 Representative Jason McLemore **Unique Well ID** DST #1 Cherokee sand 4259-4350 Well Operator Mull Drilling Company, Inc **Surface Location** 23-19s-23w Ness Prepared By **Jason McLemore** Pfaff Qualified By Field Steve Reed **Vertical Test Unit Well Type** #7

Test Information

Representative Jason McLemore
Test Type Drill Stem Test Well Operator Kompany, Inc
Formation Cherokee Sand Report Date 2014/04/12
Well Fluid Type 01 Oil Prepared By Jason McLemore
Test Purpose (AEUB) Jason McLemore

 Start Test Date
 2014/04/12 Start Test Time
 07:33:00

 Final Test Date
 2014/04/12 Final Test Time
 14:58:00

Test Results

RECOVERED:

450 OCM, 25% Oil, 75% Mud

450 TOTAL FLUID



DIAMOND TESTING P.O. Box 157 HOISINGTON, KANSAS 67544

(800) 542-7313

TIME ON: 7:33 AM TIME OFF: 2:58 PM

Total

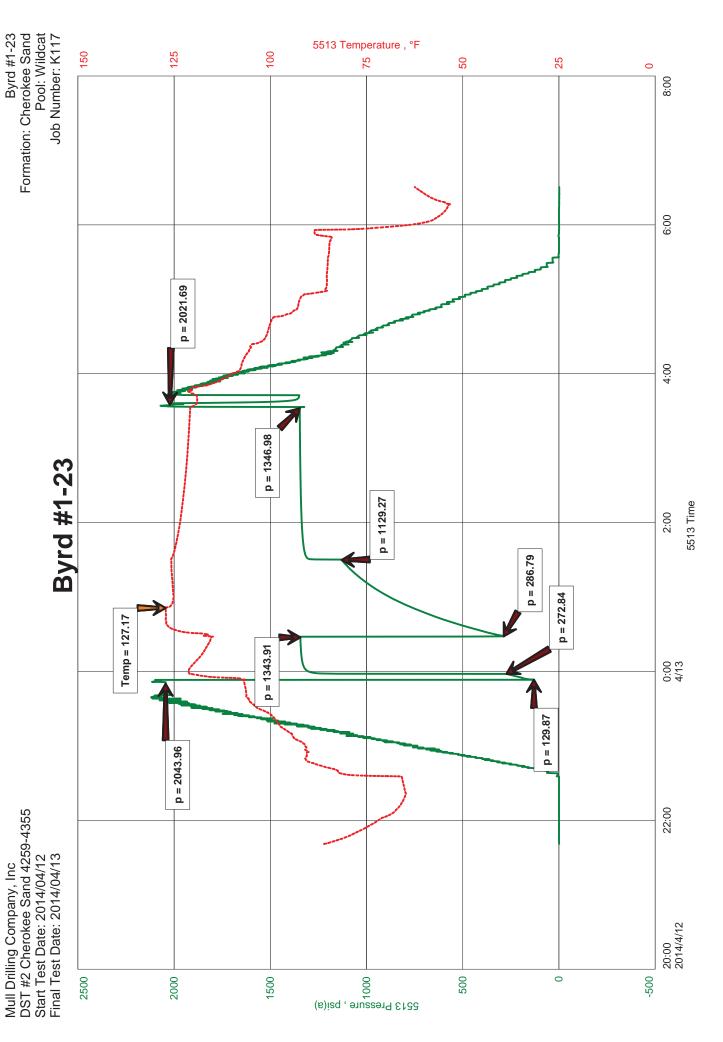
DRILL-STEM	I TEST TICKET
Company Mull Drilling Company, Inc	Lease & Well No. Byrd #1-23
Contractor WW Drilling #10	Charge to Mull Drilling Company, Inc
Elevation KB 2217 Formation Cherokee Sar	nd Effective PayFt. Ticket NoK116
	ange 23 W County Ness State KANSAS
Test Approved By Steve Reed	_ Diamond Representative Jason McLemore
Formation Test No. 1 Interval Tested from 4.	259 ft. to 4350 ft. Total Depth 4350 ft.
Packer Depth 4254 ft. Size 6 3/4 in.	Packer depthft. Size6 3/4in.
Packer Depth 4259 ft. Size 6 3/4 in.	Packer depthft. Size6 3/4in.
Depth of Selective Zone Set	
Top Recorder Depth (Inside) 4240 ft.	Recorder Number5513 Cap5000 P.S.I.
Bottom Recorder Depth (Outside)ft.	Recorder Number 5588 Cap. 6000 P.S.I.
Below Straddle Recorder Depthft.	Recorder Number Cap P.S.I.
Mud Type Chemical Viscosity 50	Drill Collar Length 122 ft. I.D. 2 1/4 in.
Weight 9.2 Water Loss 8.8 cc	. Weight Pipe Length 0 ft. I.D 2 7/8 in
Chlorides 5500 P.P.M.	Drill Pipe Length 4104 ft. I.D. 3 1/2 in
Jars: Make STERLING Serial Number Jars & Joint	Test Tool Length 33 ft. Tool Size 3 1/2-IF in
Did Well Flow? No Reversed Out No	Anchor Length 91 ft. Size 4 1/2-FH in
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in.	63' DP in Anchor Surface Choke Size 1 in. Bottom Choke Size 5/8 in
Blow: 1st Open: Built to 3-1/4", No Blowback	
^{2nd Open:} Built to BOB in 21 Min., No Blowback	
Recovered 450 ft. of Oil Cut Mud, 25 % Oil, 75% Mud	
Recovered 450 ft. of TOTAL FLUID	
Recoveredft. of	
Recoveredft. of	
Recoveredft. of	PARTIES AND A
Recoveredft. of	Other Charges
Remarks:	Insurance
·	

Time Set Packer(s)	9:12 AM	A.M. P.M. T	ime Started Off Bott	om	2:58 PM	A.M. P.M.	Maximum Ten	nperature118
Initial Hydrostatic Pressu	ıre			(A)_		2077 P.	S.I.	
Initial Flow Period		Minutes	55	_(B)_		16 _{P.}	.S.I. to (C)	61 _{P.S.I.}
Initial Closed In Period		Minute	s30	(D)_		1347 _{P.}	S.I.	
Final Flow Period		Minute:	s60	(E)_		68 P.	S.I. to (F)	217 _{P.S.I.}
Final Closed In Period		Minutes	s120	_(G)_		1350 p.	S.I.	
Final Hydrostatic Pressu	re	*****************		(H)_		2034 _{P.}	S.I.	

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

Ę.

C:\Users\Roger Friedly\Desktop\byrd1dst2 13-Apr-14 Ver





JASON MCLEMORE

CELL # 620-617-0527

General Information

Company Name Mull Drilling Company, Inc

Contact Mark Shreve Job Number K117 **Well Name** Byrd #1-23 Representative Jason McLemore **Unique Well ID** DST #2 Cherokee Sand 4259-4355 Well Operator Mull Drilling Company, Inc **Surface Location** 23-19s-23w-Ness Prepared By **Jason McLemore** Pfaff Qualified By Field Steve Reed **Vertical Test Unit Well Type** #7

Test Information

Representative Jason McLemore
Test Type Drill Stem Test Well Operator Formation Cherokee Sand Well Operator Cherokee Sand Well Fluid Type 01 Oil Prepared By Test Purpose (AEUB) Jason McLemore

 Start Test Date
 2014/04/12 Start Test Time
 21:41:00

 Final Test Date
 2014/04/13 Final Test Time
 06:27:00

Test Results

RECOVERED:

2450 VSOCMW, 3% Oil, 87% Water, 10% Mud

2450 TOTAL FLUID

CHLORIDES: 34,000

PH: 7



P.O. Box 157

HOISINGTON, KANSAS 67544 (800) 542-7313

DRILL-STEM TEST TICKET

FILE: byrd1dst2

TIME ON: 9:41 PM
TIME OFF: 6:27 AM

FILE: byrd1d	st2	
Company Mull Drilling Company, Inc	Lease & Well No. Byrd #1-23	
Contractor WW Drilling #10	_ Charge to Mull Drilling Company, In	C
Elevation KB 2217 Formation Cherokee Sar	Effective Pay	Ft. Ticket NoK117
Date 4-12-14 Sec. 23 Twp. 19 S R	ange23 W County_	Ness State KANSAS
Test Approved By Steve Reed	Diamond Representative	Jason McLemore
Formation Test No. 2 Interval Tested from 42	259 ft. to 4355 ft. To	tal Depth
Packer Depth 4254 ft. Size 6 3/4 in.	Packer depth	ft. Size6 3/4in.
Packer Depth 4259 ft. Size 6 3/4 in.	Packer depth	ft. Size6 3/4in.
Depth of Selective Zone Set		
Top Recorder Depth (Inside) 4240 ft.	Recorder Number_ 551	3 Cap5000 P.S.I.
Bottom Recorder Depth (Outside)ft.	Recorder Number558	88_CapP.S.I.
Below Straddle Recorder Depthft.	Recorder Number	Cap P.S.I.
Mud Type Chemical Viscosity 50	Drill Collar Length 12:	
Weight	Weight Pipe Length	0 ft. I.D. 2 7/8 in
Chlorides5500 P.P.M.	Drill Pipe Length 410	4 ft. I.D. 3 1/2 in
Jars: MakeSTERLINGSerial NumberJars & Joint	Test Tool Length 3	3 ft. Tool Size 3 1/2-IF in
Did Well Flow? No Reversed Out No	Anchor Length 9 64' DP in Anchor	6 ft. Size 4 1/2-FH in
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in.	Surface Choke Size 1	_in. Bottom Choke Size 5/8 in
Blow: 1st Open: Strong, BOB in 1 Min., Weak Surface	Blowback	
^{2nd Open:} Strong, BOB in 1 Min., No Blowback		0
Recovered 2450 ft. of VSOCMW, 3% Oil, 87% Water, 10% Mud		
Recovered 2450 ft. of TOTAL FLUID		
Recoveredft. of		
Recoveredft. of		
Recoveredft. of		Price Job
Recoveredft. of		Other Charges
Remarks: CHLORIDES: 34,000		Insurance
PH: 7		
44.54 DM A.M.	O.OO ANA A.M.	Total
Time Set Packer(s) 11:54 PM P.M. Time Started Off Bo		ximum Temperature127
Initial Hydrostatic Pressure	(A) 2044 P.S.I.	
Initial Flow Period	(B)129 _{P.S.I. t}	o (C)P,S.I.
Initial Closed In Period	(D)1344 P.S.I.	4.00
Final Flow Period	(E)P.S.I. to	(F)1129_ _{P.S.I.}
Final Closed In PeriodMinutes120	(G)1347 _{P.S.I.}	
Final Hydrostatic Pressure	(H) 2022 P.S.I.	

OPERATOR

MULL DRILLING COMPANY, INC. Company: 1700 N WATERFRONT PKWY Address:

BLDG 1200

KANSAS

WICHITA, KS 67206-6637

Contact Geologist: TOBY ECK Contact Phone Nbr: 316-264-6366 Well Name: BYRD #1-23

State:

Location: NW NW SE NE S23 T19S 23W API: Pool: Field:

NW NW SE NE S23 T19S 23W

Scale 1:240 Imperial BYRD #1-23

Well Name: Surface Location: **Bottom Location:**

API: 15-135-25758 License Number: 5144 Spud Date:

4/7/2014 **NESS COUNTY** Time: 2:45 PM

0.00ft

Time:

Country:

15-135-25758 **PFAFF**

USA

Region: **Drilling Completed:**

Surface Coordinates: 1568 FNL & 1307 FEL

Bottom Hole Coordinates: Ground Elevation:

2212.00ft K.B. Elevation: 2217.00ft

Logged Interval: 0.00ft To: Total Depth: 0.00ft

Formation: **CHEROKEE SAND**

Drilling Fluid Type: FRESH WATER / CHEMICAL GEL

SURFACE CO-ORDINATES

Well Type: Vertical

Longitude:

Latitude:

N/S Co-ord: 1568 FNL E/W Co-ord: 1307 FEL

LOGGED BY



SOLUTIONS CONSULTING, INC. Company:

Address: 108 W 35TH

HAYS, KS 67601

(785) 639-1337 Phone Nbr:

Logged By: Geologist Name: STEVE REED / HERB DEINES

CONTRACTOR

WW DRILLING Contractor:

Rig #: 10

TD Date:

Rig Release:

Rig Type: **MUD ROTARY** Spud Date: 4/7/2014

Time:

Time: Time:

2:45 PM

ELEVATIONS

K.B. Elevation: 2217.00ft Ground Elevation: 2212.00ft

K.B. to Ground: 5.00ft

2nd Open: Ruilt to BOR in 21 Min. No Blowback

NOTES

FORMATION TOPS AND DAILY ACTIVITIES SUMMARY

DST # 1 SUMMARY

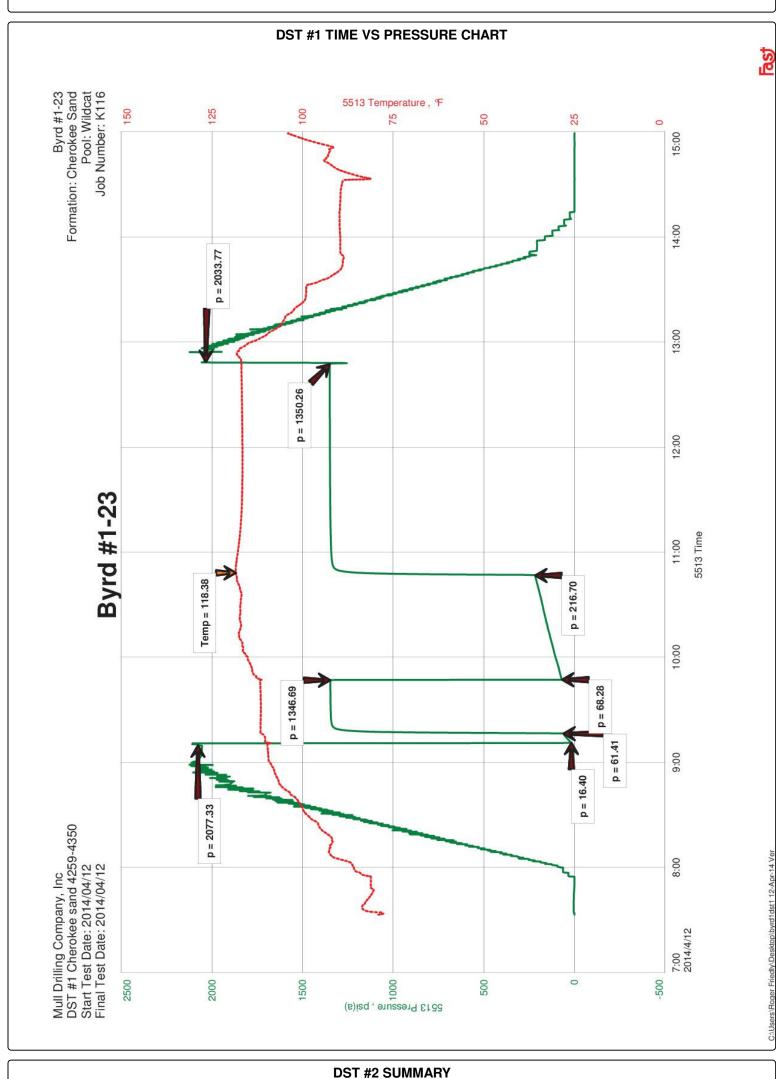


DIAMOND TESTING P.O. Box 157 HOISINGTON, KANSAS 67544 (800) 542-7313

TIME ON: 7:33 AM TIME OFF: 2:58 PM

	DRILL-STEM FILE: byrd1ds	TEST TICKET		
Company Mull Drilling Company, Inc		Lease & Well No. Byrd #1-23		
Contractor WW Drilling #10		Charge to Mull Drilling Compan	y, Inc	
levation KB 2217 Formation	Cherokee Sand	Effective Pay	Ft. Ticket No	K116
Date 4-12-14 Sec. 23 Twp		nge23 W Cour		
		Diamond Representative		
formation Test No. 1 Interval Test	ed from42	59 ft. to4350 ft.	Total Depth	4350 ft.
acker Depth 4254 ft. Size	6 3/4 in.	Packer depth	ft. Size6	3/4 in.
		Packer depth	ft. Size6	3/4 in.
Pepth of Selective Zone Set				
op Recorder Depth (Inside)	4240 _{ft.}	Recorder Number	5513 Cap	5000 P.S.I.
ottom Recorder Depth (Outside)	4241 ft.	Recorder Number	5588 Cap	6000 P.S.I.
	ft.	Recorder Number	Сар	P.S.I.
fud TypeChemicalViscosity	50	Drill Collar Length	122 ft. I.D	2 1/4 in
Veight9.2WaterLoss	8.8cc.	Weight Pipe Length	0 ft. I.D	2 7/8 ir
thlorides	5500 P.P.M.	Drill Pipe Length	4104 _{ft.} I.D	3 1/2 in
ars: Make STERLING Serial Number	Jars & Joint	Test Tool Length	33 ft. Tool Size _	3 1/2-IF in
id Well Flow?NoReversed Out_	No	Anchor Length	91 ft. Size	4 1/2-FH ir
fain Hole Size 7 7/8 Tool Joint Size		63' DP in Anchor Surface Choke Size 1	in. Bottom Che	oke Size 5/8 in

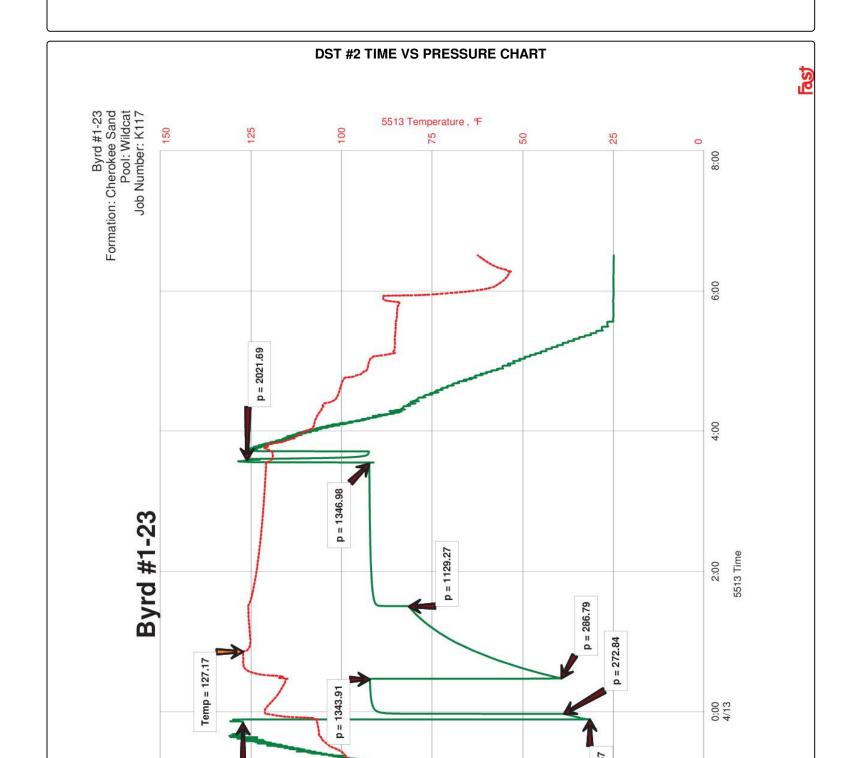
Recovered 450 ft. of Oil Cut N	Mud, 25 % Oil, 75% Mu	nd			
Recovered 450 ft. of TOTAL	FLUID				W-14
Recoveredft. of					
	40000				Price Job
					Other Charges
Remarks:		No. of the last			Insurance
Time Set Packer(s) 9:12 AM	A.M. P.M. Time St	arted Off Bott	om	2:58 PM A.M. P.M. Max	Total imum Temperature118
Initial Hydrostatic Pressure			(A)	2077 _{P.S.I.}	
Initial Flow Period	Minutes	5	_(B)	16 _{P.S.I. to}	(C)61 P.S.I.
Initial Closed In Period	Minutes	30	(D)	1347 P.S.I.	
Final Flow Period	Minutes	60	_(E)	68 P.S.I. to	(F)217 _{P.S.I.}
Final Closed In Period	Minutes	120	_(G)	1350 P.S.I.	
				2034 P.S.I.	

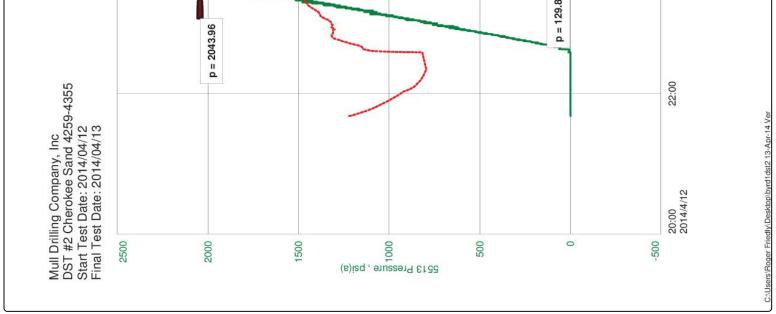


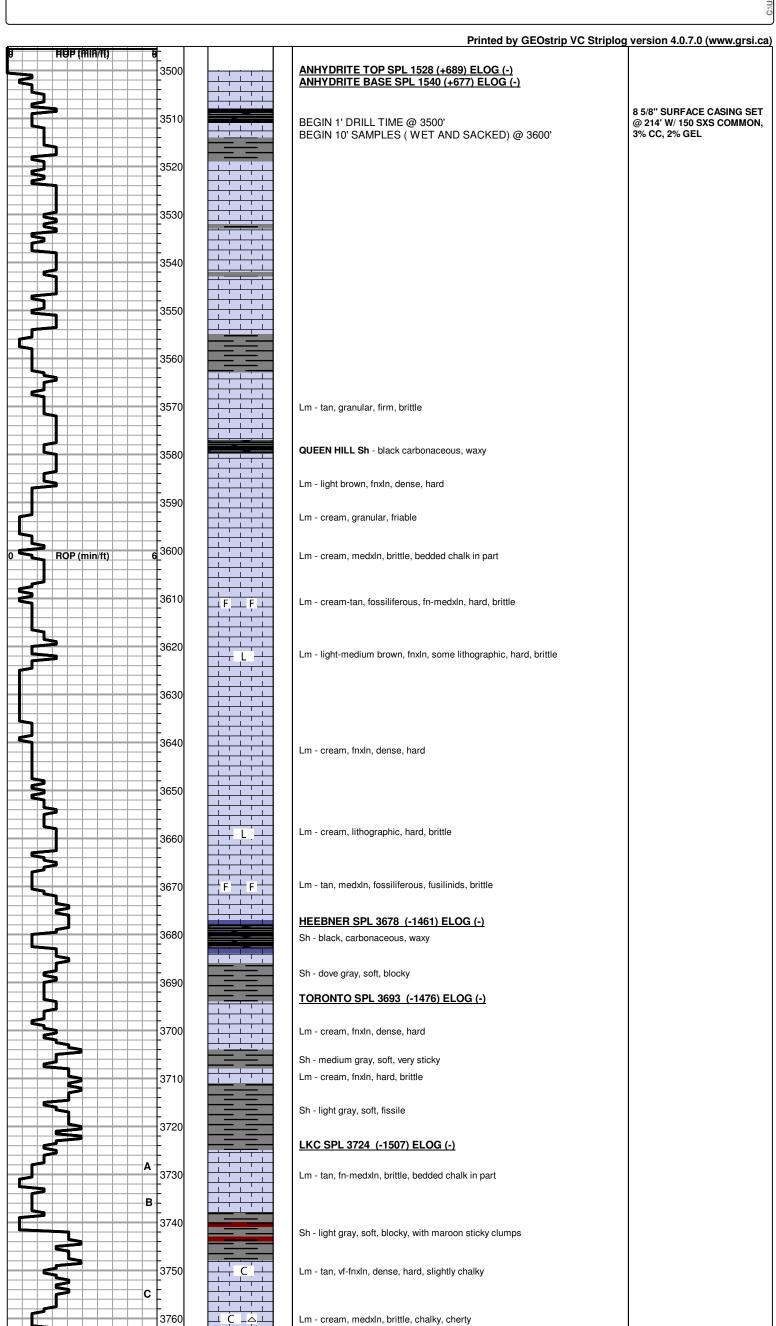
DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313 DRILL-STEM TEST TICKET

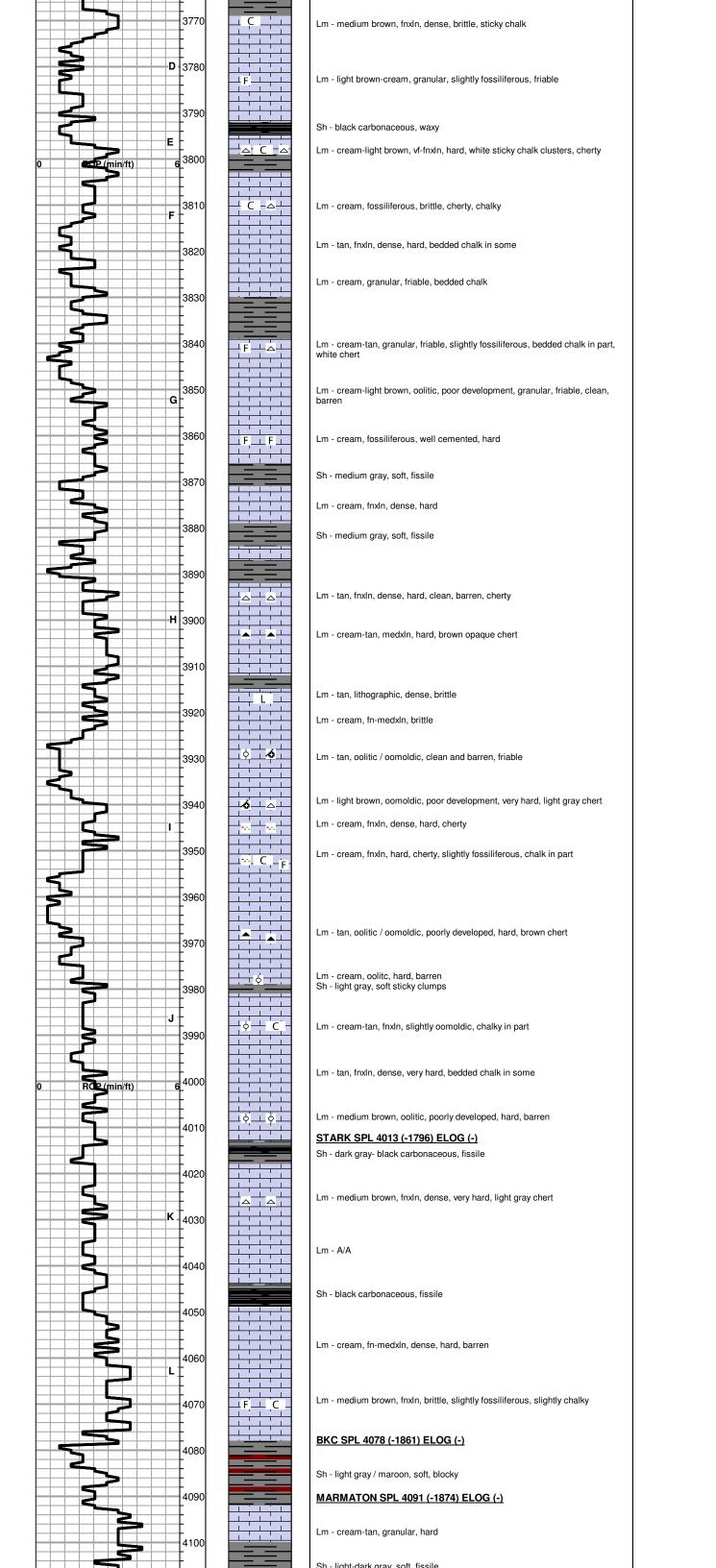
TIME ON: 9:41 PM TIME OFF: 6:27 AM

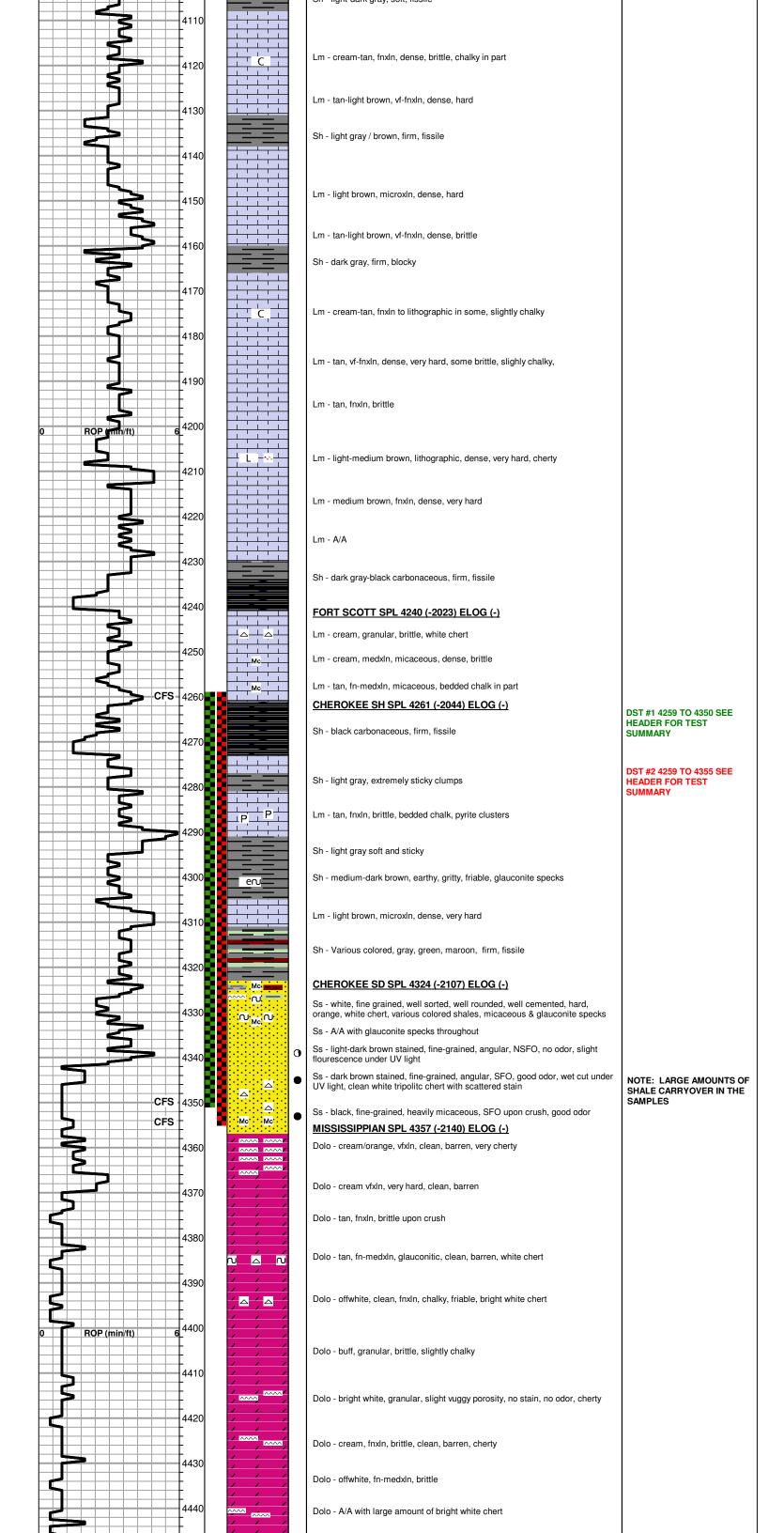
				Lease & Well N	la Byrd #1-	20					
Company Mull Drilling Compa	ıny, Inc			_rease or Aveil is	VO. Dylu #1 2	23					
Contractor WW Drilling #10				Charge to Mul	I Drilling Con	npany, Ind					
Elevation KB 2217 For	rmation	Che	erokee Sand	Effective Pay_			Ft.	Ticket	No	K117	
Date 4-12-14 Sec. 23	3 Twp		19 S Ra	nge	23 W (County		Ness	State	KANS	SA:
Test Approved By Steve Reed				Diamond Repres	entative		Jaso	on McLe	emore		
Formation Test No. 2	Interval Test	ted from	42	59 ft. to	435	5 ft. Tot	al Dep	oth		4355	ft.
Packer Depth 4254		6 3/4		Packer depth_						in.	
		6 3/4	in.	Packer depth_				3505300000	1980110707070	in.	
Depth of Selective Zone Set				_							
Top Recorder Depth (Inside)		4	1240 ft.	Recorder Numl	ber	551	3 Cap		500	00 P.S.I.	
Bottom Recorder Depth (Outside)		4	241 ft.	Recorder Numl	ber			D	STORE	00 P.S.	l.
Below Straddle Recorder Depth			ft.	Recorder Numi							
	osity			Drill Collar Leng					2 1		
Weight 9.2 Water L	oss	8.8	cc.	Weight Pipe Le					2 7		
Chlorides		5500	P.P.M.	Drill Pipe Lengt		440			3 1		
Jars: Make STERLING Serial	Number	Jars &	Joint	Test Tool Leng	th	33	3 ft.	Tool Siz	re 3 1	/2-IF	
			576	Action to the second		0.0	-		4.1	/2-FH	_
Did Well Flow? No	Reversed Out		No	Anchor Length		90	6 ft.	Size	4 1		
Main Hole Size 7 7/8 13 Blow: 1st Open: Strong, BOB in 2nd Open: Strong, BOB in	1 Min., No	Weak So Blowk	Surface	64' DP in Anchor Surface Choke			100				
Main Hole Size 7 7/8 To Blow: 1st Open: Strong, BOB in Recovered 2450 ft. of VSOCMV	rool Joint Size n 1 Min., V 1 Min., No V, 3% Oil, 879	Weak So Blowk	Surface Dack 10% Mud	64' DP in Anchor Surface Choke	Size	1	_in.	Bottom	Choke S	ize 5/8	
Main Hole Size 7 7/8 1 Blow: 1st Open: Strong, BOB in 2nd Open: Strong, BOB in Recovered 2450 ft. of VSOCMV 2450 ft. of TOTAL F	rool Joint Size n 1 Min., N 1 Min., No V, 3% Oil, 87 LUID	4 1/2 Weak S D Blowk Water,	Surface cack 10% Mud	64' DP in Anchor Surface Choke Blowback	Size	1	_in.	Bottom	Choke S	ize 5/8	
Main Hole Size 7 7/8 1 Blow: 1st Open: Strong, BOB in 2nd Open: Strong, BOB in Recovered 2450 ft. of TOTAL F. Recovered ft. Otal F. Recov	rool Joint Size n 1 Min., N 1 Min., No V, 3% Oil, 879 LUID	Weak So Blowk	Surface Dack 10% Mud	64' DP in Anchor Surface Choke Blowback	Size	1	_in.	Bottom	Choke S	ize 5/8	
Main Hole Size 7 7/8 7 Blow: 1st Open: Strong, BOB in 2nd Open: Strong, BOB in Recovered 2450 ft. of VSOCMV Recovered 2450 ft. of TOTAL F Recovered ft. of Recovered ft. of	rool Joint Size n 1 Min., N 1 Min., No V, 3% Oil, 87 LUID	4 1/2 Weak S D Blowk % Water,	Surface Dack 10% Mud	64' DP in Anchor Surface Choke Blowback	Size	1	in.	Bottom	Choke S	ize 5/8	
Main Hole Size 7 7/8 7 Blow: 1st Open: Strong, BOB in 2nd Open: Strong, BOB in Recovered 2450 ft. of VSOCMV Recovered 2450 ft. of TOTAL F Recovered ft. of	rool Joint Size n 1 Min., N 1 Min., No N, 3% Oil, 879 LUID	Weak So Blowk	Surface Dack 10% Mud	64' DP in Anchor Surface Choke Blowback	Size	1	in.	Bottom	Choke S	ize 5/8	_
Main Hole Size 7 7/8 7 Blow: 1st Open: Strong, BOB in 2nd Open: Strong, BOB in Recovered 2450 ft. of VSOCMV Recovered 2450 ft. of TOTAL F Recovered ft. of	rool Joint Size n 1 Min., N 1 Min., No N, 3% Oil, 879 LUID	Weak So Blowk	Surface Dack 10% Mud	64' DP in Anchor Surface Choke Blowback	Size	1	Price	Bottom	Choke S	ize 5/8	
Main Hole Size 7 7/8 7 Blow: 1st Open: Strong, BOB in 2nd Open: Strong, BOB in Recovered 2450 ft. of VSOCMV Recovered 2450 ft. of TOTAL F Recovered ft. of Recovered ft. of Recovered ft. of Recovered ft. of	rool Joint Size n 1 Min., N 1 Min., No N, 3% Oil, 879 LUID	Weak So Blowk	Surface Dack 10% Mud	64' DP in Anchor Surface Choke Blowback	Size	1	Price Othe	Bottom Job r Charge	Choke S	ize 5/8	
Main Hole Size 7 7/8 7 Blow: 1st Open: Strong, BOB in 2nd Open: Strong, BOB in Recovered 2450 ft. of VSOCMV Recovered ft. of Remarks: CHLORIDES: 34,000 PH: 7	rool Joint Size n 1 Min., N 1 Min., No V, 3% Oil, 87° LUID	4 1/2 Weak S o Blowk % Water,	Surface coack 10% Mud	64' DP in Anchor Surface Choke Blowback	Size	1	Price Other	Bottom e Job er Charge	Choke S	ize 5/8	_
Main Hole Size 7 7/8 7 Blow: 1st Open: Strong, BOB in 2nd Open: Strong, BOB in Recovered 2450 ft. of VSOCMV Recovered ft. of TOTAL FRECOVERED ft. of Recovered ft. of Remarks: CHLORIDES: 34,000 PH: 7	Tool Joint Size n 1 Min., No l Min., No	4 1/2 Weak S D Blowk Water,	Surface Dack 10% Mud	64' DP in Anchor Surface Choke Blowback tom 3:29	AM A.N	1	Price Other	Bottom Job r Charge	Choke S	ize_5/8	
Main Hole Size	Tool Joint Size n 1 Min., No N, 3% Oil, 879 LUID A.M. P.M.	4 1/2 Weak S D Blowk Water,	Surface Dack 10% Mud	64' DP in Anchor Surface Choke Blowback tom 3:29 (A)	AM A.N 2044	1	Price Othe Insur	Bottom e Job er Charge	Choke S	127	
Main Hole Size 7 7/8 7 Blow: 1st Open: Strong, BOB in 2nd Open: Strong	Fool Joint Size n 1 Min., No 1 Min., No V, 3% Oil, 87 LUID A.M. P.M. Minut	Weak Sp Blowk Blowk Water, Time Sta	Surface Dack 10% Mud arted Off Bot	64' DP in Anchor Surface Choke Blowback tom 3:29(A)(B)	AM A.N. 2044	1. Max. Max. P.S.I. to P.S.I. to	Price Othe Insur	Bottom e Job er Charge	Choke S	ize_5/8	
Main Hole Size 7 7/8 7 Blow: 1st Open: Strong, BOB in 2nd Open: Strong, BOB in 2450 ft. of VSOCMV Recovered 2450 ft. of TOTAL F Recovered ft. of Recovered ft. of Recovered ft. of Recovered ft. of Recovered 15. of Remarks: CHLORIDES: 34,000 PH: 7 Time Set Packer(s) 11:54 PM Initial Hydrostatic Pressure	Tool Joint Size n 1 Min., No 1 Min., No V, 3% Oil, 874 LUID A.M. P.M. Minut	Weak Sp Blowk Water, Time Sta	Surface Dack 10% Mud	64' DP in Anchor Surface Choke Blowback Blowback tom 3:29 (A)	AM A.M 2044 129 1344	1. Max. Max. P.S.I. to P.S.I.	Price Othe Insur Total	Bottom e Job er Charge	es 273	127 P.S.I.	
Main Hole Size 7 7/8 7 Blow: 1st Open: Strong, BOB in 2nd Open: Strong, BOB in Recovered 2450 ft. of VSOCMV Recovered ft. of TOTAL F. Recovered ft. of Recovered 11.54 PN Time Set Packer(s) 11.54 PN nitial Hydrostatic Pressure nitial Flow Period final Flow Period fina	Tool Joint Size n 1 Min., No l Min., No l Min., No l Min., No A.M. P.M. Minut Minut Minut	Weak So Blowk Blowk Water, Time Sta	Surface Dack 10% Mud arted Off Bol 5 30 60	tom 3:29 (B) (E) (E)	AM A.M P.N 2044 129 1344 287	1. Max. Max. P.S.I. to P.S	Price Othe Insur Total	Bottom e Job er Charge	Choke S	127 P.S.I.	
Main Hole Size 7 7/8 7 Blow: 1st Open: Strong, BOB in 2nd Open: Strong, BOB in Recovered 2450 ft. of VSOCMV Recovered ft. of TOTAL F Recovered ft. of Remarks: CHLORIDES: 34,000 PH: 7	Tool Joint Size n 1 Min., No 1 Min., No V, 3% Oil, 874 LUID A.M. P.M. Minut Minut	Weak So Blowk Blowk Water, Time Sta	Surface Dack 10% Mud arted Off Bol 5 30 60 120	tom3:29(A)(B)(C)(G)(G)	AM A.M P.N 2044 129 1344 287	1. Max. Max. P.S.I. to P.S.I. to P.S.I. to P.S.I. to P.S.I. to P.S.I. to P.S.I.	Price Othe Insur Total	Bottom e Job er Charge	es 273	127 P.S.I.	_











Dolo - buff, medxln, brittle

RTD 4450 (-2233) LTD (-)