Confidentiality Requested: Yes No

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1233080

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 & LE	ASE

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

	Page Two	1233080
Operator Name:	Lease Name:	Well #:
Sec TwpS. R □ East □ West	County:	
INCTRUCTIONS. Chow important tang of formations panatrated	Dotail all cores Report a	Il final conject of drill stoms tosts giving interval tostod, time tool

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 (Attach Additional She	eets)	Yes No		-	on (Top), Depth ai		Sample
Samples Sent to Geolog	jical Survey	Yes No	Name	9		Тор	Datum
Cores Taken Electric Log Run		☐ Yes ☐ No ☐ Yes ☐ No					
List All E. Logs Run:							
			RECORD New		on, 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
		ADDITIONAL	CEMENTING / SQU	EEZE RECORD			
_	D						

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

Did you perform a hydraulic fracturing treatment on this well?	Yes
Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?	Yes
Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?	Yes

ies	
Yes	No
Yes	No

No

(If No, skip questions 2 and 3) (If No, skip question 3)

(If No, fill out Page Three of the ACO-1)

Shots Per Foot		PERFORATION Specify Fo	NRECOF otage of	RD - Bridge Plu Each Interval P	ugs Set/Typ erforated)e			ement Squeeze Record d of Material Used)	Depth
TUBING RECORD:	Si	ze:	Set At:		Packe	r At:	Liner R		No	
Date of First, Resumed	d Product	ion, SWD or ENHI	٦.	Producing Me	ethod:	ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas	Mcf	Wat	ər	Bbls.	Gas-Oil Ratio	Gravity
					NETHOR					
DISPOSIT	d	Used on Lease		Open Hole	Perf.	OF COMPLE	Comp.	Commingled (Submit ACO-4)	PRODUCTION INT	ERVAL:
(II verneu, St	John ACC	-10.)		Other (Specify)						

Form	ACO1 - Well Completion
Operator	Murfin Drilling Co., Inc.
Well Name	KLS 1-35
Doc ID	1233080

All Electric Logs Run

DIL	
DUCP	
MEL	
BHCS	

Form	ACO1 - Well Completion
Operator	Murfin Drilling Co., Inc.
Well Name	KLS 1-35
Doc ID	1233080

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement		Type and Percent Additives
Surface	12.2500	8.6250	23	643	A-Con, Common	400	3% CC
Production	7.8750	5.5000	17	3978	AA-2	175	2% KCL

BASIC"

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PAGE	CUST NO	YARD #	INVOICE DATE
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	INVOI	CE NUMB	ER
	915	70490	

	Pratt	(620)	672-1201	J O	LEASE NAME Location	KLS	1-35
_	MURFIN DRILLING PO Box: 288 RUSSELL KS US 67665			B S I T E	COUNTY STATE	Staff KS Cemen	ord Lt-New Well Casing/Pi

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O ATTN: ACCOUNTS PAYABLE

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Common Cement			200.00		12.16	
Celloflake			100.00		2.81	
Calcium Chloride			940.00		0.80	
*Top Rubber Cmt P			1.00		171.00	
*Baffle Plate Alum.			1.00		129.20	
Centralizer 8 5/8 x			2.00		110.20	
	PU, cars one way)"		35.00		3.23	
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Taylor Printing, Inc. 620-872-3658 . ..'

	SIC			PAGE 1 of 1	-		2	YARD # 1718 E NUMB	INVOICE DATE 08/26/2014 ER
Pratt B MURFIN DRIL I PO Box: 288 L RUSSELL	LING	672-1201 PAYABLE	J O B S I T R	LEASE LOCATIC COUNTY STATE JOB DE JOB CO	on Script		KLS Staff KS	1-35 ford	ell Casing/Pi
JOB #	EQUIPMENT #	PU	RCHASE	ORDER	NO.		TI	RMS	DUE DATE
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60/40 POZ	50.00	EA	9.00	450.0
C-41P	42.00	EA	[,] 3.00	[:] 126.0
Salt	869.00	EA	0.37	325.8
Cement Friction Reducer	50.00	EA	4.50	225.0
C-44	165.00	EA [,]	3.86	637.3
FLA-322	83.00	EA	5.62	
Gilsonite	875.00	EA	0.50	
Mud Flush	500.00	EA .	1.13	
Claymax KCL Substitute	5.00		26.25	
"Latch Down Plug & Baffle, 5 1/2"" (Blu	1.00		300.00	1
"Cmt. Shoe Packer Type, 5 1/2"" (Red)"	1.00		2,775.01	
"Turbolizer, 5 1/2"" (Blue)"	10.00	l	82.50	
Cement Scratcher's Rotating Type	10.00	1	37.50	
"5 1/2"" Basket (Blue)"	1.00	i ·	217.50	
"Unit Mileage Chg (PU, cars one way)"	35.00		3.19	
Heavy Equipment Mileage	70.00		5.25	
"Proppant & Bulk Del. Chgs., per ton mil	364.00		1.65	
Depth Charge; 3001-4000'	1.00		1,620.00	
Blending & Mixing Service Charge	225,00		1.05	
Casing Swivel Rental	1.00		150.00	
Plug Container Util. Chg.	1.00	1	131.25	
Service Supervisor, first 8 hrs on loc.	1.00		131.23	
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TREATMENT REPORT

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	<u>LS</u>			AAGN 4	1-3	5						100		
Field Order #	Station	Prstt	- 1 165			Casing		3975		+ sf/a	212	State Ks		
Type Job (INN,	151/2	Lons	5811	<u>nş</u>		Formation	<u> 70-</u> 7	Tread	Legal De	Scription J	15.22-		
PIPÉ	E DATA	PERF	ORATIN	G DAT	A	FLUID	USED		TREATMENT RESUME					
Casing Size	Tubing Siz	ze Shots/F	-1		Ac	id			RATE PRESS			ISIP		
Depth	Depth	From	То		Pro	e Pad		Max			5 Min.			
Volume	Volume	From			Pa	id	. 6	Min			10 Min.			
Max Press	Max Press	³ From	· To	То		80		Avg	-		15 Min.			
Well Connectio		ol. From	То					HHP Used	3		Annulus i	Pressure		
Plug Dapth 3778	Packer De	epth From	То			ush		Gas Volur	ne		Total Loa	d .		
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Service Units		27463			562		_		· ·					
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KLS #1-35 Daily Drilling Report Page Two

	•		KLS #	1-35			Rank OW	WO #1-2	
		3	30' FSL 3	30' FWL			4620FSL 330FWL		
			Sec. 35-22	2S-12W			Sec. 2-23S-12W		
			1842'	КВ			1836' KB		
Formation	Sample top	Datum	Ref	Log tops	Datum	Ref	Log tops	Datum	
Anhydrite	605	+1237	+2	606	+1236	+1	601	+1235	
B/Anhydrite	628	+1214	+1	626	+1216	+3	623	+1213	
Stotler				2566	-724	-4	2556	-720	
Topeka	2809	-967	-12	2805	-963	-8	2791	-955	
Heebner	3181	-1339	-10	3178	-1336	-7	3165	-1329	
Lansing	3318	3 -1476 -10		3314	-1472	-6	3302	-1466	
Stark	3533	-1691	-7	3533	-1691	-7	3520	-1684	
BKC	3587	-1745	-8	3587	-1745	-8	3573	-1737	
Viola	3622	-1780	+32	3612	-1770	+42	3648	-1812	
Simpson	3703	-1861	+42	3700	-1858	+45	3739	-1903	
Arbuckle	3836	-1994	-19	3832	-1990	-15	3811	-1975	
Granite Wsh	4473	-2631		4428	-2586				
Granite	4589	-2747		4440	-2598		DNR		
RTD	4615						3900		
LTD				4611			3894		

CELIS WITH PI	UE BACKCBOUND	ARE THE ONLY CELLS TO BE EL	ITED	Additive	Specific Gravity	Additive Quantity	Mass (lbs)	l
	Fracture Start Date/Time		1	Water	1.00	Additive Quantity 376,278	Mass (lbs) 3,140,040	gal
	Fracture End Date/Time	9/30/14 12:04		Sand (Proppant)	2.65	148,700	148,700	lb
	State	Kansas		Plexcide B7	1.33	20	222	gal
	County	: Stafford	-	Plexcide B7	1.33	20	222	gal
	API Number Operator Name		(e.g. XX-XXX-XXXX-0000)	Plexgel Breaker XPA Plexset 730	1.03 0.90	72 56	619 421	gal gal
		: KLS #1-35		Plexset 730	0.90	56	421	gal
	Federal Well			Plexsurf 580 ME	0.95	93	737	gal
	Longitude Latitude	: -98.6179049 : 38.087107	-	Plexsurf 580 ME Plexslick 957	0.95	93 259	737 2,399	gal gal
	Long/Lat Projection	: NAD27		Claymax	1.09	185	1,683	gal
Ti	rue Vertical Depth (TVD)	: 0'		Plexgel 907L-EB	1.04	0	0	gal
Total C	Clean Fluid Volume* (gal)	: 376,278		Plexgel 907L-EB	1.04	0	0	gal
1				Plexgel 907L-EB Plexgel 907L-EB	1.04	0	0	gal gal
				Plexgel 907L-EB	1.04	0	0	gal
				Plexgel Breaker 10L	1.10	0	0	gal
								gal gal
							Total Slurry Mass (Lbs)	gai
Ingredients Section:							3,296,200	
					Maximum Ingredient		Maximum Ingredient	
Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Concentration in Additive	Mass per Component (LBS)	Concentration in HF	Comments
				Humber (CAS #)	(% hy mass)**	Component (EB3)	Fluid (% by mass)**	
Water	Operator	Carrier/Base Fluid	Water	7732-18-5	100.00%	3,140,040	95.26241%	
Sand (Proppant)	Uniman	Proppant	Crystalline Silica in the form of Quartz	14808-60-7 / 238-878-4	99.90%	148,551	4.50674%	
Plexcide B7 Plexcide B7	Chemplex Chemplex	Biocide Biocide	Sodium Hydroxide Alkaline Bromide Salts (non-hazardous)	1310-73-2 NA	4.99% 0.00%	11 0	0.00034%	
Plexcide B / Plexgel Breaker XPA	Chemplex	Slickwater Breaker	Alkaline Bromide Salts (non-hazardous) Hydrogen Peroxide	NA 7722-84-1	7.00%	43	0.00000%	
Plexset 730	Chemplex	Activator	Methanol	67-56-1	50.00%	210	0.00638%	
Plexset 730	Chemplex	Activator	Alcohol Ethoxylates	Mixture 67-56-1	60.00%	252	0.00766%	
Plexsurf 580 ME Plexsurf 580 ME	Chemplex Chemplex	Product Stabilizer Product Stabilizer	Methyl Alcohol 2-Butoxyethanol	67-56-1 111-76-2	10.00%	74 369	0.00224% 0.01118%	
Plexslick 957	Chemplex	Friction Reducer	Petroleum Hydrotreated Light Distillate	64742-47-8	25.00%	600	0.01820%	
Claymax	Chemplex	Clay Stabilizer	No Hazardous Ingredient	NA	0.00%	0	0.00000%	
Plexgel 907L-EB Plexgel 907L-EB	Chemplex Chemplex	Gelling Agent Gelling Agent	Distillates, Hydrotreated Light Organophylic Clay	64742-47-8 NDA	50.00% 2.00%	0	0.00000%	
Plexgel 907L-EB	Chemplex	Gelling Agent	Crystalline Silica	14808-60-7	0.06%	0	0.00000%	
Plexgel 907L-EB	Chemplex	Gelling Agent	Alcohol Ethoxylates	34398-01-1	1.00%	0	0.00000%	
Plexgel 907L-EB	Chemplex	Gelling Agent	Guar Gum	9000-30-0	50.00%	0	0.00000%	
Plexgel Breaker 10L	Chemplex	Breaker/Gel	No Hazardous Ingredient	NA	0.00%	0	0.00000%	
								Non-MSDS Component
								Non-MSDS Component
								Non-MSDS Component
								Non-MSDS Component Non-MSDS Component
								Non-MSDS Component
	-							

*Total Water Volume sources may include fresh water, produced water, and/or recycled water ** Information is based on the maximum potential for concentration and thus the total may be over 100%

All component information listed was obtained from the supplier's Material Safety Data Sheets (MSDS). As such, the Operator is not responsible for inaccurate and/or incomplete information. Any questions regarding the content of the MSDS should be directed to the supplier who provided it. The Occupational Safety and Health Administration's (OSHA) regulations govern the criteria for the disclosure of this information. Please note that Federal Law protects "proprietary", "trade secret", and "confidential business information" and the criteria for how this information is reported on an MSDS is subject to 29 CFR 1910.1200(i) and Appendix D.



DRILL STEM TEST REPORT

Prepared For: Murfin Drilling Co.

250 North Water Ste 300 Wichita KS 67202

Printed: 2014.08.21 @ 16:36:04

ATTN: Chuck Schmaltz

KLS #1-35

35-22s-12w Stafford,KS

Start Date: 2014.08.19 @ 06:43:00 End Date: 2014.08.19 @ 14:02:30 Job Ticket #: 60309 DST #: 1

Trilobite Testing, Inc 1515 Commerce Parkway Hays, KS 67601 ph: 785-625-4778 fax: 785-625-5620

	DRILL STEM TES	T REP	ORT	DRT				
	Murfin Drilling Co.		35-22s-	12w Sta	fford,KS			
ESTING , INC	250 North Water Ste 300 Wichit	a KS 67202	KLS # 1	-35				
			Job Ticke	et: 60309	DST	#: 1		
NOK.	ATTN: Chuck Schmaltz		Test Sta	t: 2014.08	3.19 @ 06:43:0	0		
GENERAL INFORMATION:								
Formation:ViolaDeviated:NoWhipstock:Time Tool Opened:08:25:30Time Test Ended:14:02:30	ft (KB)		Test Typ Tester: Unit No:	e: Conve Dustir 3315	entional Bottom n Ellis	Hole (Initial)		
Interval:3570.00 ft (KB) To37Total Depth:3712.00 ft (KB) (TVHole Diameter:7.88 inches Hole			Reference	e Elevation KB to GR/	1831	.00 ft (KB) .00 ft (CF) .00 ft		
Serial #: 6999InsidePress@RunDepth:199.41 psigStart Date:2014.08.19Start Time:06:44:00TEST COMMENT:IFP 30 Weak building is 60 No blow	End Date: End Time: uilding blow built to 2"	2014.08.19 14:02:30	Capacity: Last Calib.: Time On Btm: Time Off Btm:		5000. 2014.08 08.19 @ 08:25 08.19 @ 12:25	:00		
FFP 60 Surge 1 FSI90 No blow Pressure vs. T	back				UMMARY			
2000 000000000000000000000000000000000000		Time (Min.) 0 1 30 90 90 147 240 240	(psig) (de 1938.35 11 103.51 11 184.97 11 768.96 11 232.23 11 199.41 11 738.77 11	g F) 3.82 Initia 3.34 Ope 4.38 Shui 4.81 End 4.71 Ope 4.62 Shui 4.71 End	Inotation Il Hydro-static n To Flow (1) t-ln(1) Shut-ln(1) n To Flow (2) t-ln(2) Shut-ln(2) I Hydro-static			
20								
Recovery		Gas Rates						
Length (ft) Description 65.00 Mud 100%	Volume (bbl) 0.32			hoke (inches)	Pressure (psig)	Gas Rate (Mcf/d)		
Trilobite Testing, Inc	Ref. No: 60309				.08.21 @ 16:36			

	DRILL STEM TES	T REP	ORT	DRT				
	Murfin Drilling Co.		35-22	2s-12w \$	Stafford,K	S		
ESTING , INC	250 North Water Ste 300 Wichita	a KS 67202	KLS	#1-35				
			Job Ti	cket: 603	09	DST#:1		
NOK.	ATTN: Chuck Schmaltz		Test Start: 2014.08.19 @ 06:43:00					
GENERAL INFORMATION:								
Formation:ViolaDeviated:NoWhipstock:Time Tool Opened:08:25:30Time Test Ended:14:02:30	ft (KB)	Test Type:Conventional Bottom Hole (Initial Tester:Tester:Dustin EllisUnit No:3315					e (Initial)	
Interval: 3570.00 ft (KB) To 37 Total Depth: 3712.00 ft (KB) (TV Hole Diameter: 7.88 inches Hole	/D)		Refere	ence ⊟eva KB to		1842.00 1831.00 11.00	ft (CF)	
Serial #: 6839OutsidePress@RunDepth:737.63 psigStart Date:2014.08.19Start Time:06:44:00TEST COMMENT:IFP 30 Weak builded No blowIFP 60 Surge to Surge	End Date: End Time: wilding blow built to 2" back. hat died off.	2014.08.19 14:02:00	Capacity: Last Calib.: Time On Bt Time Off Bt	m: 20			psig	
FSI 90 No blow I	me		PRE	ESSURE		RY		
005 Prosure 005 Prosure 000 P	ETHER CETHER	Time (Min.) 0 1 29 90 90 149 240 240	Pressure (psig) (1937.89 103.17 176.00 769.24 229.68 254.06 737.63	Temp (deg F) 113.30 112.81 113.78 114.28 114.28 114.13 114.05 114.17	Annotation Initial Hydro-s Open To Flow Shut-In(1) End Shut-In(1) Open To Flow Shut-In(2) End Shut-In(2) Final Hydro-st	tatic (1)) (2))		
Recovery	,	Gas Rates						
Length (ft) Description 65.00 Mud 100%	Volume (bbl) 0.32			Choke (incl	hes) Pressure (;	osig) Gas	Rate (Mcf/d)	
	Ref. No: 60309				014.08.21 @			

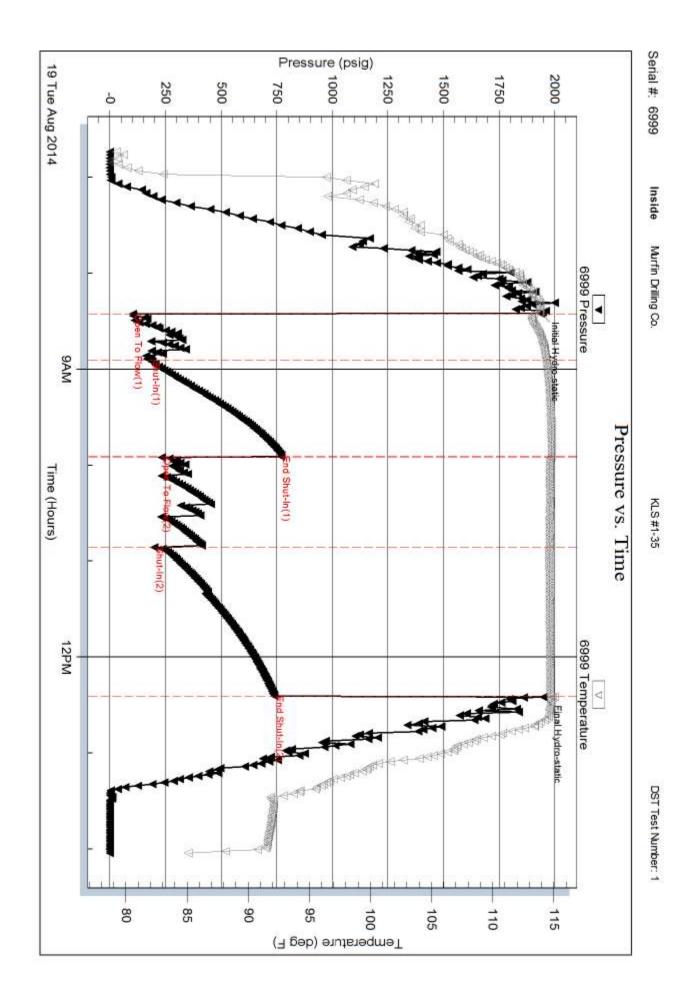
$\Delta O h \Box$	DI OI		DRII	LL STI	EM TEST	REPOR	Т	TOOL DIAGRAI	
	RILOE	SILE	Murfin [Drilling Co.			35-22s-12w Stafford	,KS	
	ES1	TING , INC	250 Nor	rth Water S	te 300 Wichita k	KS 67202	KLS #1-35		
る話し							Job Ticket: 60309	DST#:1	
N 37			ATTN:	Chuck Sch	nmaltz		Test Start: 2014.08.19 @	06:43:00	
Tool Informatic	on		ļ						
Drill Pipe:	Length:	3299.00 ft	Diameter:	3.80	inches Volume:	46.28 bbl	Tool Weight:	2000.00 lb	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00	inches Volume:	0.00 bbl	Weight set on Packer:	20000.00 lb	
Drill Collar:	Length:	270.16 ft	Diameter:	2.25	inches Volume:	1.33 bbl	Weight to Pull Loose:	88000.00 lb	
		07 46 ft			Total Volume:	47.61 bbl	Tool Chased	0.00 ft	
Drill Pipe Above k		27.16 ft 3570.00 ft					String Weight: Initial	70000.00 lb	
Depth to Top Pac Depth to Bottom F		3570.00 It ft					Final	70000.00 lb	
Interval between		142.58 ft							
Tool Length:	1 001013.	142.58 ft							
-			D : (
Number of Packe	rs:	2	Diameter	6.75	inches				
Number of Packe Tool Comments:	irs:	2	Diameter:	6.75	inches				
Tool Comments:				6.75 Serial No		Depth (ft) A	ccum. Lengths		
Tool Comments: Tool Descriptic						Depth (ft) A 3547.00	ccum. Lengths		
Tool Comments: Tool Descriptic Shut In Tool			ngth (ft)				ccum. Lengths		
Tool Comments: Tool Descriptic Shut In Tool Hydraulic tool			ngth (ft) 5.00			3547.00	ccum. Lengths		
Tool Comments: Tool Descriptic Shut In Tool Hydraulic tool Jars			ngth (ft) 5.00 5.00			3547.00 3552.00	ccum. Lengths		
Tool Comments: Tool Descriptic Shut In Tool Hydraulic tool Jars Safety Joint			ngth (ft) 5.00 5.00 6.00			3547.00 3552.00 3558.00	ccum. Lengths		
Tool Comments: Tool Descriptic Shut In Tool Hydraulic tool Jars Safety Joint Top Packer			ngth (ft) 5.00 5.00 6.00 2.00			3547.00 3552.00 3558.00 3560.00	ccum. Lengths	Bottom Of Top Packe	
Tool Comments: Tool Descriptio Shut In Tool Hydraulic tool Jars Safety Joint Top Packer Packer			ngth (ft) 5.00 5.00 6.00 2.00 5.00			3547.00 3552.00 3558.00 3560.00 3565.00		Bottom Of Top Packe	
Tool Comments: Tool Descriptic Shut In Tool Hydraulic tool Jars Safety Joint Top Packer Packer Anchor	on		ngth (ft) 5.00 5.00 6.00 2.00 5.00 5.00			3547.00 3552.00 3558.00 3560.00 3565.00 3570.00		Bottom Of Top Packe	
Tool Comments: Tool Descriptic Shut In Tool Hydraulic tool Jars Safety Joint Top Packer Packer Anchor Change Over Sub	on	Le	ngth (ft) 5.00 5.00 6.00 2.00 5.00 5.00 5.00			3547.00 3552.00 3558.00 3560.00 3565.00 3570.00 3575.00		Bottom Of Top Packe	
Tool Comments: Tool Descriptic Shut In Tool Hydraulic tool Jars Safety Joint Top Packer Packer Anchor Change Over Sut Drill Pipe	on	Le	ngth (ft) 5.00 5.00 6.00 2.00 5.00 5.00 5.00 0.75			3547.00 3552.00 3558.00 3560.00 3565.00 3570.00 3575.00 3575.75		Bottom Of Top Packe	
Tool Comments: Tool Descriptic Shut In Tool Hydraulic tool Jars Safety Joint Top Packer Packer Anchor Change Over Sub Drill Pipe Change Over Sub	on	Le	ngth (ft) 5.00 5.00 6.00 2.00 5.00 5.00 5.00 0.75 127.08			3547.00 3552.00 3558.00 3560.00 3565.00 3570.00 3575.00 3575.75 3702.83		Bottom Of Top Packe	
Tool Comments: Tool Descriptio Shut In Tool Hydraulic tool Jars Safety Joint Top Packer Packer Packer Anchor Change Over Sul Drill Pipe Change Over Sul Anchor	on	Le	ngth (ft) 5.00 5.00 6.00 2.00 5.00 5.00 5.00 0.75 127.08 0.75		. Position	3547.00 3552.00 3558.00 3560.00 3565.00 3570.00 3575.00 3575.75 3702.83 3703.58		Bottom Of Top Packe	
	on	Le	ngth (ft) 5.00 5.00 6.00 2.00 5.00 5.00 0.75 127.08 0.75 4.00	Serial No	. Position	3547.00 3552.00 3558.00 3560.00 3565.00 3570.00 3575.00 3575.75 3702.83 3703.58 3707.58		Bottom Of Top Packe	

		RILL STEM TES	ST REPORT	Г	FLUI	D SUMMAF
	Mu Mu	rfin Drilling Co.		35-22s-12	v Stafford,KS	
I EST	ING , INC 250) North Water Ste 300 Wich	ita KS 67202			
	AT	TN: Chuck Schmaltz				
lud Type: Gel Chem lud Weight: 9.00 l iscosity: 53.00 s /ater Loss: 11.98 i lesistivity: o alinity: 11300.00 j	b/gal sec/qt n³ ohm.m opm	Cushion Length Cushion Volume Gas Cushion Ty	e: vpe:	bbl		deg AF ppm
ecovery Information	ı					
	r	Recovery Tab	ble	1	-	
		Description				
	ļ	0 Mud 100%)	
Тс	tal Length:	65.00 ft Total Volume	e: 0.320 bbl		-	

Printed: 2014.08.21 @ 16:36:06

Ref. No: 60309

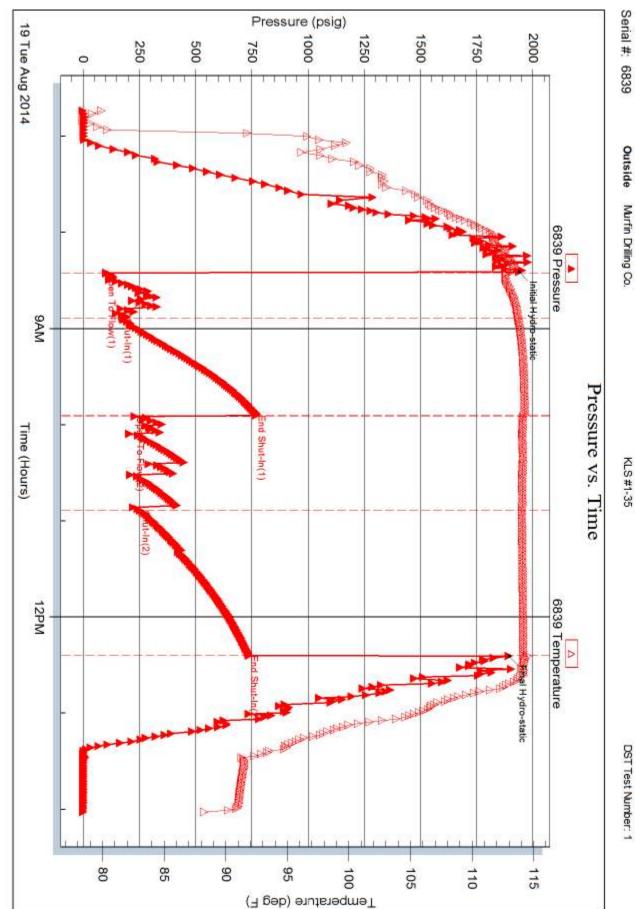
Trilobite Testing, Inc



Printed: 2014.08.21 @ 16:36:06

Ref. No: 60309





KLS #1-35

DST Test Number: 1

RILOBITE		Test 1	'icket	
4/10 ESTING 1515 Commerce Par	INC. kway • Hays, Kansas 67601	NO.	50309	
Well Name & No. KLS 1-35	Test No.	D	ate 8-19-	14
Company Multin Drilling	-s Co fric Elevation	1842	KB_183	GL
Address 250 N Water S	STE 300 wichity Fo	nsas 6	7202	
Co. Rep/Geo. Chuck Sch	maltz Rig M	hulfin Rig	21	
Location: Sec. 35 Twp. 7-		0. 1	State	5
Interval Tested 3570 3717	Zone Tested Viola			
Anchor Length	2000	Mu	AMI 9.4	
Top Packer Depth 3565	Drill Collars Run 270.1	Vis Vis	53	
Bottom Packer Depth 3570	Wt. Pipe Run 20,000	WL	12.0	
Total Depth 3712	Chlorides 11:300 p	pm System LCI	u	
Blow Description 1st open wear	K building blow buil	+ to 2:	icles.	
1st shut in - Ub block		•		
2nd open - surge d				
and shut in - Wo be				
Rec_65_ Feet of_mud	%gas	%oil	%water 18))%muc
Rec Feet of	%gas	%oil	%water	%muo
Rec Feet of	%gas	%oil	%water	%muc
Rec Feet of	%gas	%oil	%water	%mud
Rec Feet of	%gas	%oil	%water	%mud
Rec Total BHT	Gravity API RW	_@°F Ch	lorides	ppm
(A) Initial Hydrostatic 1938	950	T-On Locat	on 600	m
B) First Initial Flow 103	□ Jars <u>9e5</u> 250	T-Started _	650 an	~
C) First Final Flow 1846	Safety Joint 983 75	T-Open	8:24am	
D) Initial Shut-In 768	Circ Sub		12.24p	
E) Second Initial Flow 232	Hourly Standby	T-Out	:05pm	
F) Second Final Flow	Mileage (0 0 93	Comments		
G) Final Shut-In 738	Sampler -			-
				200
1010	Straddle		Chala Deal	
1010	Straddle Shale Packer		Shale Packer	
H) Final Hydrostatic 1949	Shale Packer	D Ruined	Packer	
	Shale Packer Extra Packer	C Ruined C Extra C	Packer	
H) Final Hydrostatic 1949	Shale Packer Extra Packer Extra Recorder	— 🗆 Ruined — 🗆 Extra C — Sub Total _	Packer opies 0	
H) Final Hydrostatic 1949 Initial Open <u>6:24 am</u> Initial Shut-In <u>6:34 am</u>	Shale Packer Extra Packer	C Ruined D Ruined D Extra C Sub Total _ Total _	Packer	

Approved By ______ Our Representative ______ VA Strn. (11) Trilobite Testing Inc. shall not be liable for damaged of any kind of 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 statements or opinion concerning the results 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.

SCHM01-12	REFERENCE WELL FOR STRUCTURE INVERTIN DRILLING CO., KANK OWWO # 1-2 4260 FSL, 330'FWL, SEC 2-T23S-RI2W, STAFFORD CTY, KS	<u> JI03 JI00 Lisze</u> <u>3836 3832 - 1990 <u>3910 3904 - 2062</u> </u>	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	- 1232 - 1334 - 5	2/TE - TOP 605 606 + 1236 + 1 DAILY PENETRATION 2/TE - BASE 628 626 + 1216 + 3 ME DEPTH 2 2809 1805 - 963 - 8 8-15 MIRT	FORMATION TOPS & STRUCTURAL POSITION 2 71/8 HTC 1 FORMATION TOP LOG TOP DATUM POSITION U 71/8 HTC 1	BHCS-MEL I 121/4 HTC	$\frac{2}{2} \frac{643}{43}$ PRODUCTION $\frac{51/2}{2} \frac{2}{3918}$ ELECTRICAL SURVEYS PIONEER ENERGY SER	106 2014 SHARES EXAMINED FROM 2700' SAMPLES EXAMINED FROM 2700' SECLORICAL SUPERVISION FROM 2700'	BAT9 DRILLING MEASURED FROM KB SALPES SWED FROM 10' - 2700'	SEC 32 TWSP 22S RGE 12W PRODUCTION: COUNTY STAFFORD ELEVATION: 18 1842	MIKE'S METEOR	KLS # 1-35			
			4b15 T00H 9,9 48 168 31 7,5 7,43 4 ^m	8-19 3712 T1H 9.5 62 9.2 26 10.0 35/58 1# 13700 19 19 19 19 19 19 19 19 19 19 19 19 19	TR III	MUD TYPE: PUMP SIZE: BPS: BPS: BPS: BPS: BPS: BPS: BPS: BPS	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	643 643 T1/4 CEVIATION SURVEYS:	RECORD						100 "ОС	DRILL STEM TESTS ISIP/Time FFP/Time FSIP/Time HH-FHH RECOVERY T120 [±] 1232 [±] 199 [±] 120 [±] 138 [±] 651 MUD	
			•	INUTE		Sandston DEF 600 10 20 30 40			Carb sh	MPLE DE		σl.Lime	Chert OIL SHOWS	<u>ANHY</u> 605	DRITE		
						2770 10 20 30 40 2750 60 70 80			ls: tan foss, r ls: as ls: tan, granu no sh ls: Ds sh: gr sh: as sh: lt w/ ss: friable	above; no brown,gre lar in par above wi rey, It: gr s above grey, gre grey, vfn , shaley in	medxtln, a show o vis Ø, no ey, fn-mec rt, app pr rt, app pr / sh: grey ey, silty, rey, silty ey, silty, ranned, n part, no	, pelletal, sh o show dxtln, foss r interxtln d r, sli silty in part nicaceous, well-sortec vis d, na sho					
						90 2 800 10 20 30 40 2850 60 70 80 90			Is: ta Is: ta Is: as Is: taw few pc Is: off chalky Interx Is: as Is: as fn.m sh: It sh: as sh: as sh: as sh: as Sh: as Is: off Sh: for	n It. brown ss no vis above, s n, It. brown swh, tan, It , granular tin Ø, no s s above, r above, r edxtln, den . grey, gri s above, s s above, s s above, s s above, w s above, w s above, w	in arev f Ø no sh I chalky, fn-medx iterxtin Ø, iterxtin Ø, iter	fn-medxtln how , no show (tln, sli fose , no show xtln, sli r, scat pr brown, gree ceous ceous is brown sh ey, vfngrned s of, no show n-medxtln,		<u>TOPE1</u> 2809			
						290 10 20 30 40 2950 60 70 80 90 300			Is: as Is: to fn-m Is: o Is: o Is: as Is: to slifos xtln, s Is: as Is: off fnxtl Is: as Is: off foss, s	iff whi, tan iular in <u>xtln 0; sl</u> s above: sli mottle s brown, <u>s</u> , sli grav above; b above; b i above; wi f wh, tan, pr interxt above; wi above; wi	sli chalk in, greyis li mottlei in, fn-me part, sco ichalky; w/ 1s: gre ed, no vis H. grey, f hular, sco ecoming v/ 1s: gre led, no vis lt. grey, f in Ø, no s y grey sho ex, fn-me er, sch Ø, no s	sh-brown d, no vis ø, edxtla, tt pr vugg no show rey, fn-med ø, no show m.medxtla at pr inter- sli chalky y, fn-med show; ls:w ale_ edxtla, sli					
						10 20 30 40 30 40 30 60 70 80 90 310 10 10 20			Is: tan calcit Is: as fresh, Is: tan printe which Is: off scat Is: tan, pcs w/ grey, Is: off xtln, r Is: off xtln, sl Interxt Is: off scat Is: tan pcs w/ grey, Is: off xtln, sl Is: off xtln, sl Is: tan granul no sho Is: as Is: as	a, grey, fn ic, sli fos above: opaque n, arey, fn rxtln Ø ni alk, <u>A</u> H. wh, tan, fi pr interx pr interx brown wh, grey, s io vis Ø, ro wh, lt. grey, h, to show no show n, pr-fr w. above, b above	few pcs few pcs redxtln o show; cc <u>grey, fre</u> n-medxtln rxtln è vi <u>green-gr</u> iney, fn-m tln Ø, no s some bron no show ey, scat to uky in pc now; grey, fn- part; app	In, scat erxtin &NS s Δ , dkgrey s, Si foss, ap onsiderable sh, opaque n, granular uggv &, NS; rey ned xtin, few show; scat wn, fn-med an, fn-med art, scat pr med xtin, scat pr med xtin, opr inter- n, foss, inter xtin (g ch alky, N		<u>OREA</u> 3079		-1237)-	
						30 40 315 60 70 80 90 320 10 20 30			Is: as xtln & Is: off foss, c Interx Is: as vfn.f Is: for xtln, s chalk sh: bla Is: tan sh: ar Is: tan sh: ar sh: ar ro sh sh: It. few f	above, c ; w/ wh iwh, H. gre pranular above, wl nxtin, den :wh, tan, scat pr in n, It. brow cli foss, ni .y, 1s ack, dk g .y, greer n, It. grey, pr inter iow	pl pcs w chalky 22, fn-me in part, s show 15: tan, It. se 11. grey, 1 terxtln o wn, fn-sc b vis o; 11 grey, gre ey, vfnxtl n-grey, o tan, fn-s s, few pcs xtine vis	mostly fn (,no show ome med- s,w/ wrh,		HEEE 3181 TOROI 3201 DOUC 3216	(<u>NTD</u> (-	-1339) -1359) -1374)_ -	
						40 325 60 70 80 90 330 10 20 30 40 335			sh: as sh: as sh: as sh: as sh: as sh: as sh: as sh: as sh: as is: bro sh: as is: bro sh: as is: bro sh: as is: bro sh: as is: ta	s above arey, grey is above as above as above grey, grey grey, grey s above pwn, tan, ss, dense grey, grey, grey, grey, i above above	, few pcs ey, mica 2 2 7, mica ce 7, few pcs 4, few pcs few pcs 6, fn-mec	e medxtln, Ø,no show brown,green dxtln.sli		LANS 3318		- - - - - - - - - - - - - - - - - - -	
			285			60 (0) (0) (0) (0) (0) (0) (0) (0) (0) (0			calciti Is: as mottle no sha Is: tan visø,n sli fos Is: as c xtln, de Is: off v sli cha interxt pcs w/ odor; Is: tan clense fn-med scat cu vuggs veins Is: tan clense fn-med scat cu vuggs veins Is: off no visø,n sli fos Is: as c xtln, de Is: tan clense fn-med scat cu vuggs Is: tan sli fos Is: tan clense fn-med scat cu vuggs Is: off no visø,n sli fos Is: tan clense fn-med scat cu vuggs Is: off no visø Is: off no visø Is: tan sli fos Is: tan sli fos Is: tan sli fos Is: tan scat cu vuggs Is: off no visø scat cu vuggs Is: off no visø scat	c, tr pr in above ; w/ d in par w/ , th. brown, is show: 1 is, sli pelli is, sli pelli i	terxtin 1s: grey, f vfn-fnxti is: dk brov etal, no vi etal, no vi etal, no vi etal, no vi etal, no vi etal, no vi is: brown, is: grey, g in: grey, g in: grey, y th. brown, bss, sli g is: fo in r, no odo show fnxtin, ou show fnxtin, fnx	of, no show <u>fn.med xtln</u> <u>bss</u> , no viso <u>vn, med xtln</u> <u>us of, no show</u> <u>grey, micro</u> <u>grey, micro</u> <u>grey, micro</u> <u>grey, micro</u> <u>grey, micro</u> <u>grey, micro</u> <u>grey, micro</u> <u>grey, med xtln</u> . <u>arey-brown</u> <u>ranular</u> ; <u>iterxtln &</u> <u>iso</u> , no show <u>iso</u> , no show					
	Mar WWW WWW WWW		210			70 80 90 350 10 20 30 40 3550 60 70			xtln, s vis a ls: ta frey, f ls: off few f fluor, sh: gre ls: tan fr-gd c ls: tan fr-gd c ls: tan fr-gd c ls: tan frew p pr int ls: tan ls: tan few p ls: tan frist tan	preen-g wh, tan, f cs, w/ pr cut, st, c ey, dk gre r, tan, fn- frags, ma r, tan, fn- frags, ma r, tan, fn- g, no fluor y, to pr 11 poc Ø, no f p, brown, sc n, sli ool, i erool Ø, n , brown, s medxtin,	nottled in grey, fin- n Ø, no sk grey, cal finxtln, s interxtln xdor, NS ey medxtln, r, cut, st, a fin-medxtl ivor, cut, st, a fin-medxtl fin-medxtl ivor, cut, st, a fin-m	n part, no medxtlp, now; w/sh ic ill granular n por, no io cemented, interxtln ior, cut, st, oalfooc, fr- dor; NSO Hn, oalfooc st, odor; NSO		<u>STAR</u> 3540		-1698) 	
						80 90 360 10 20 30 40 365 60 70 80 90			Is: to: shi foe in fill Is: tar no vis sh: qre vi Is: wi Is: wi qre vi ge vfnxth Scat pr scat pr vaggy crush some ss: gre siliceo st, NSC Δ: as Δ: as Δ: as	in, brown wil shign wil shign brown, to o g no sh ey, dk grey brown, fn- show wn, fn-med en, grey sl n, some gr tan, it brow trans, sco fluor, wk cu ered/trip. g, fr fluc cut), pr- tow gas o Josper; y, vfngrai us cemen o, few gas above; so esh to we remain in above	, some gr e grey, bn ey, some grey, some grey, form ow i, scat is med xtin, so med xtin, so med xtin, so med xtin, so med, no vi wn, fresh, at weath t, pr st; w olitic, ap or, pr cut. Some fr st in breaky sh: grey; ned, well it; dense bubbles c athered g as ab	Inclusions, sli ool, no vis nown, silty, e finamenta s: H. grey, is & opaque - ered edges i/ A: whi, p pr ppt & (fr- vry gd t & sat, ssfi ft. odor; ; few cluster sorted, w/ - v. pr & dk in break in break		30"-60 IFP: WK I FFP: NO E RECOVI 65' HSP: 10 FP: 10 SIP: 76 BHT: 1 (MODERA	(- - 3712) - 60"-9 - 60"-9 - 60"-9 - 60"-9 - 9 - 60"-9 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9 -	о" — Сто 2" 949[#] — 32[#] 199[#] 3[#] _	
	AV WWW CONVERSION CONV					90 37100 10 20 30 40 375 60 70 80 90 3800	0		sh: gr seat 1 shale cleant cound oil rest shale cleant cound oil rest sh: bro pcs ye sh: bro ss: wh calc,n sh i s ss: cle firm, s ss: cle firm, s sh: gre some ri	s: tan, broi rown, gree ; few pcs : as above fngraine firm, tr pi due, NS 1 rite math wn, gree wn, gree wn, gree wn, gree wn, gree wn, gree wn, gree some w/ g some w/ g some w/ g some w/ g some w/ g some w/ g	few pcs of wn, fn. mi en, some A; wh, free ve, few (cl, fr sorr ive oil, so rix in, some (cl, fr sorr in, some (cl, fr sorr) in, some (ng,firm-han 1		<u>51MP5</u> 3703	TO TO THE REAL PROPERTY OF THE PARTY OF THE	·1861)	
	Marken Marken					10 20 30 40 3855 60 70 80 90 380 90 10			sh: as fn gro matri sh: gro sh: as greer clolo: still co dolo: 1 pcs f inter dolo: 1 pcs f inter dolo: 1 grey, grey, dolo: few po clolo few po clolo	t grey, ta treen, sli s s above v lish-gre t grey, ta trying co t grey, ta trying co t grey, ta trying co t grey, ta show t grey, ta the grey,	II-sorted, sandy, gre vi dolo: the sy vfnxthe n, vfnxthe ostly vfn n, sli san show show, f above, xtin, clobe tan, brow h: as above tan, vfn. tan, vfn.	n, dense; ble sh a.a. ixtln, few idy, fr vpr s green- wl sh: green no show wl green sh wl green sh wl green fnxtln, no edded green n-fnxtln, een sh w		ARBU 3836 LTD RTD	(- 3904		CALD CO.
						20 30 40 395 60 70 80 90 4000 10 10 20 30			dolo: ta no vis faxtla dolo: ta vis Ø, sandy, sh in f	n, lt. brow of no sho i, somdy an, lt brow no show thirtin, no s intr, no s interxtin, no interxtin, no	in, fn-sca wi, dala no vis ø wn, fn-me ; wi dola iterbedd ihow e medxtl	t med xtln 1 t med xtln 1 t grey, no show ed xtln, no 1 t grey, ed green n, few pxs t grey fn- 21; no vis c		AND TH RELEAS THEN M DECISIC WELL THE GI * 3910- - JOINT	e geolo de d. ope ade th n to dr de e pe Ranite	ERATOR ELL_THE ER_TO WASH	
						40 4D5 60 70 80 90 41D						n, lt. grey, art, no vise ey.fn-som , sli sand :xtln &,NS					

