KOLAR Document ID: 1482978

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 #	API No.:
Name:	Spot Description:
Address 1:	
Address 2:	Feet from North / South Line of Section
City: State: Zip:	_+ Feet from
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	NE NW SE SW
CONTRACTOR: License #	
Name:	(e.g. xx.xxxxx) (e.gxxx.xxxxxx)
Wellsite Geologist:	
Purchaser:	
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workove	Field Name:
☐ Oil ☐ WSW ☐ SWD	Producing Formation:
Gas DH EOR	Elevation: Ground: Kelly Bushing:
	Total Vertical Depth: Plug Back Total Depth:
CM (Coal Bed Methane)	Amount of Surface Pipe Set and Cemented at: Feet
Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used?
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:	
	nv. to SWD Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Committee Downsit #	Chloride content:ppm Fluid volume: bbls
□ Commingled Permit #: □ Dual Completion Permit #:	Dewatering method used:
SWD Permit #:	
EOR Permit #:	
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 Bate Reached 1D Completion Recompletion	

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 ☐ Drill Stem Tests Received
Geologist Report / Mud Logs Received
UIC Distribution
ALT I II Approved by: Date:

KOLAR Document ID: 1482978

Page Two

Operator Name: _				Lease Name:			Well #:	
Sec Twp.	S. R.	E	ast West	County:				
	flowing and shu	ut-in pressures, v	vhether shut-in pre	ssure reached st	atic level, hydrosta	tic pressures, bot		val tested, time tool erature, fluid recovery,
Final Radioactivity files must be subm						iled to kcc-well-lo	gs@kcc.ks.gov	v. Digital electronic log
Drill Stem Tests Ta			Yes No			on (Top), Depth ar		Sample
Samples Sent to 0	Geological Surv	/ey	Yes No	Na	me		Тор	Datum
Cores Taken Electric Log Run Geologist Report / List All E. Logs Ru	_		Yes No Yes No Yes No					
		B	CASING eport all strings set-c		New Used	ion, etc.		
Purpose of Strir		Hole illed	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
			ADDITIONAL	CEMENTING / SO	UEEZE RECORD			
Purpose:		epth T Bottom	ype of Cement	# Sacks Used	red Type and Percent Additives			
Perforate Protect Casi Plug Back T								
Plug Off Zor								
Did you perform a Does the volume Was the hydraulic	of the total base f	fluid of the hydrauli		_	=	No (If No, sk	ip questions 2 an ip question 3) out Page Three	,
Date of first Product Injection:	tion/Injection or R	esumed Production	Producing Meth	nod:	Gas Lift 0	Other (Explain)		
Estimated Production Per 24 Hours	on	Oil Bbls.					Gas-Oil Ratio	Gravity
DISPOS	SITION OF GAS:		N	METHOD OF COMP	LETION:			DN INTERVAL: Bottom
	Sold Used	I on Lease	Open Hole			mmingled mit ACO-4)	Тор	BOROTT
,	,			B.11 B1				
Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid,	Fracture, Shot, Cer (Amount and Kind	menting Squeeze I of Material Used)	Record
TUBING RECORD:	: Size:	Set	Δ+-	Packer At:				
TODING RECORD:	. 3126.		n.	i donei Al.				

Form	ACO1 - Well Completion
Operator	Merit Energy Company, LLC
Well Name	MCWILLIAMS E 8
Doc ID	1482978

All Electric Logs Run

ANNULAR HOLE VOLUME
BOREHOLE SONIC ARRAY LOG
DUAL SPACED NEUTRON SPECTRAL DENSITY LOG
MICROLOG
QUAD COMBO

Form	ACO1 - Well Completion
Operator	Merit Energy Company, LLC
Well Name	MCWILLIAMS E 8
Doc ID	1482978

Tops

Name	Тор	Datum
HEEBNER	3925	
TORONTO	3941	
LANSING	4018	
KANSAS CITY	4330	
MARMATON	4512	
PAWNEE	4585	
CHEROKEE	4629	
ATOKA	4802	
MORROW	4850	
U MORROW	4879	
L MORROW	4918	
ST GENEVIEVE	4970	

Form	ACO1 - Well Completion
Operator	Merit Energy Company, LLC
Well Name	MCWILLIAMS E 8
Doc ID	1482978

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Conductor	17.5	13.375	48	115	А	200	SEE ATTACH ED
Surface	12.25	8.625	24	1765	A/C	665	SEE ATTACH ED
Production	7.875	5.5	17	5146	A	230	SEE ATTACH ED/ 50 SX RH



Liberal Yard #1717 - Phone 620-624-2277 - 1700 S. Country Estates Road, Liberal KS 67901

PRESSURE PUMPING

Job Log

				COD EOG						
Customer:		Merit Energy		Cement Pump No.:	38750-198	42 4 HRS	Operator TRK No.:			
Address:	gardencity.	invoices@meri	tenergy.co	Ticket #:	1718-19732 L		Bulk TRK No.:	30464-37547		
City, State, Zip:	AFE- 6432	3		Job Type:	Z-42 Cer		nent Conductor	Casing		
Service District:	8			Well Type:	Well Type:		OIL			
ell Name and No.:	N	lcWilliams E#	8	Well Location:	21-24S-33W	County	Finney	State:	Kansa	
Туре с	of Cmt	Sacks		Additives			Truck Loa	ded On		
CLAS	SS C	200	3	%CaCl, 1/2#POLYF	FLAKE	30464	4-37547	Front	Back	
								Front	Back	
								Front	Back	
Lead	/Tail:	Weight #1 Gal.	Cu/Ft/sk	Water Red	quirements	CU. FT.	Man I	Hours / Person	nel	
Lea	ad:	14.8	1.36	6.	34	272	Man Hours:	23		
Ta	il:						# of Men on Job:	3		
Time		Volume	Pumps	Press	sure(PSI)		Description of Oper	ation and Materials	3	
(am/pm)	(BPM)	(BBLS)	T C	Tubing	Casing					
21:30						(ON LOC, SAFT			
0:42					500		TEST L			
12:45 AM	3				110		START MIXIN	NG @ 14.8#		
1:08 AM	1.4	48.5			10		START DISP	LACEMENT		
1:17 AM		15			40	SHUT IN WELL, RELEASE PSI			l	
						JOB COMPLETE				
						THANK YOU FOR YOUR BUSINESS!!!			SSIII	
							5 BBL CEME	NT TO PIT		
			11 1							
									40.00	
					2					
							-			
		-								
								() ************************************		
Size Hole	47.470	Donth		122'		TYPE				
	17 1/2	Depth	115'	New / Used		Packer		Depth		
Size & Wt. Csg.	13 3/8	Depth	115	inew / Used				Depth		
tbg. Top Plugs		Depth				Retainer Perfs	1	C y BP		
Top Plugs	L	Туре			D D		+nn			
0					Basic Represe		1/1//	HAD HINZ		
Customer Signature:			Basic Signatu		11/1	1				
					Date of Service	e:	9/4/2019	1		

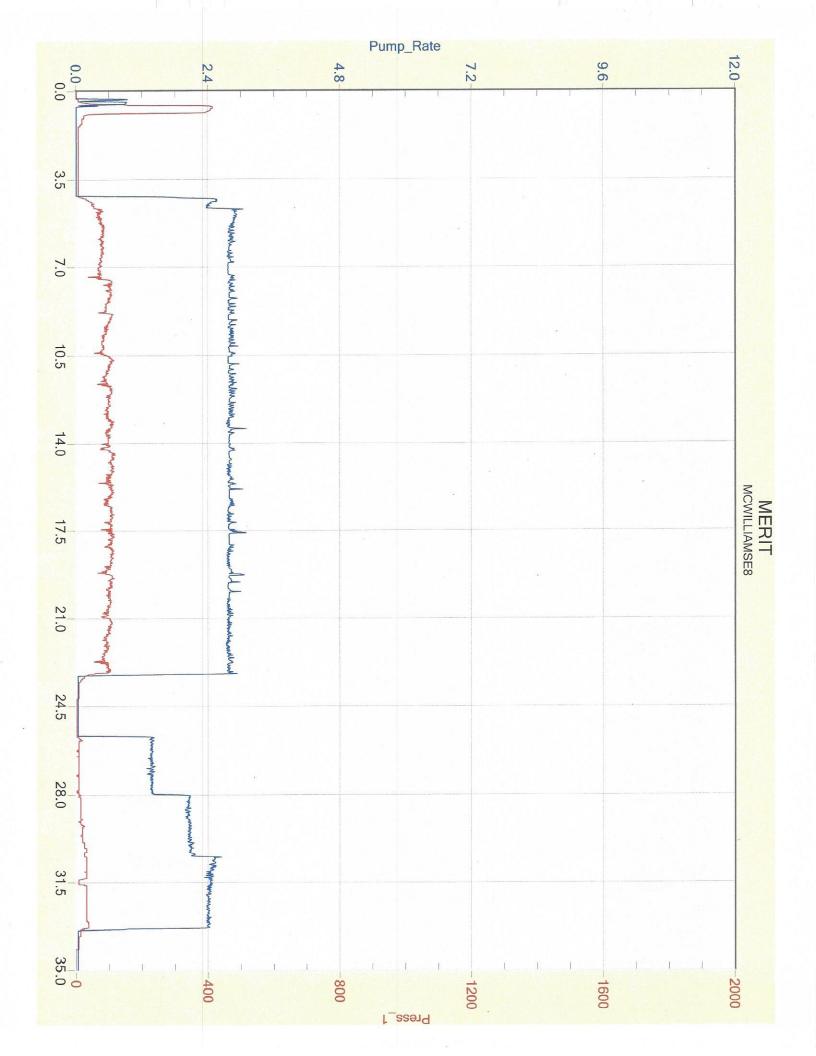


Customer Comments or Concerns:

SERVICE ORDER - 1718-19732 L

IOL	CICELIC	 1010= =

	NERGY SER		PH (620)-624-2277FAX (620) 624-2280	Date:	9/4/2019
Vell Name:				Location:	
/lcWilliams E#	ŧ 8			21-24S-33W	
County - State:				RRC #:	
inney, Kansas				Customer's Order #:	
ype Of Service:				Customer's Order #.	
Z-42 Cement C	Customer: N		rav		
	Customer. IV	lent Lne	gy		
			/.invoices@meritenergy.com		
	75 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	FE- 643	The state of the s	NET 30 (SEE 10.2) after date of invoice	e. Upon Customer's
			ay Basic Energy Services in accord with the rates and terms stated in basic energy Services currient pince has, mit the rates and terms to term to each continue agrees to pay interest thereon after default at 18% per annum. In the event it becomes necessary to employ an attorney to enforce the state where services are performed or equipment or materials are furnished.	orce collection of said account, Custom	er agrees to pay all
the collection costs and	attorney lees. These	terris and con	dillions shall be governed by the family of the state time of state in workmappenin. THERE ARE NO WARRANTIES EXPRESS OR IMP	PLIED MERCHANTABILITY FITNESS	FORA
PARTICULAR PURPOS	, warrants only title to SE OR OTHERWISE \	the products, WHICH EXTE	supplies and materials and that the same are free from defects in workmanship. THERE ARE NO WARRANTIES, EXPRESS OR IMINO BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Basic Energy Services, liability and Customer's ese) arising out of the sale or use of any products, supplies, for materials upon their return to Basic Energy Services, is expressly limited.	xclusive remedy in any cause of action	(whether in
contract, tort, product list or , at Basic Energy Ser	ability, breach of warra rvices. option, to the al	inty or otherwi- llowance to the	se) arising out of the sale or use of any products, supplies, or materials upon their return to basic Energy Services, is expressly limited a Customer of credit for the cost of such items. In no event shall Basic Energy Services be liable for special, indirect, punitive or conse	equential damages.	ouppiles of materials
			DESCRIPTION	PRICE	TOTAL
CODE	QTY	MOU	DESCRIPTION Class C Cement	29.00	5800.0
BC101 CC102	100	SK LB	Celloflake	4.00	400.0
CC102	564	LB	Calcium Chloride	1.00	564.0
ME102	120	MI	Heavy Equipment Mileage	8.00	960.0
CE240	200	SK	Blending & Mixing Service Charge	1.40	280.0
TM	564	MI	Ton Mileage	3.00	1692.0
CC1	1	HR	Depth Charge, 0'-1000'	1200.00	1200.0
ME101	60	MI	Light Vehicle Mileage	5.00	300.0
CE505	1	EA	Cement Densiometer, with chart recorder	350.00	350.0
BE143	1	EA	Supervisor	75.00	75.0
BE144	3	EA	Driver	35.00	105.0
				100	
_4-					72.00
					
	-				
	+				
	+ +				ant -
	-				
		-			
	-				
		Help or the second			
-					
				Book Total:	\$11,726.0
				Taxes:	
				Disc. Price:	\$5,261.0
			Additional 10% Discount as per Agreement on Cement Services	10% Disc	\$526.1
				Adjusted Price	\$4,734.9
				YES	NO
PUMP TRUCK NU	IMBER: 3	8750-1984	2 4 THIS JOB WAS SATISFACTORILY COMPLETED		
		,,	OPERATION OF EQUIPMENT WAS SATISFACTORY		
DRIVER:			PERFORMANCE OF PERSONEL WAS SATISFACTORY		
1	11/1				
	1/LA	_			
	ANC PHEDAVE	SERVICES	CUSTOMER OR I	HIS AGENT	





1700 S. Country Estates Raod Liberal, KS 67901 PH (620)-624-2277FAX (620) 624-2280

SERVICE ORDER - 1718 19659 L

ENERGY SERVICES	PH (620)-624-2211PMA (020) 024-2200	Date: 9/5/2019	
Well Name: McWilliams E # 8		Location: 21-24S-33W	
County - State: Finney, Kansas		RRC#:	
Type Of Service: 7-42 Cement Surface Casing		Customer's Order #:	

Customer: Merit Energy

Address: gardencity.invoices@meritenergy.com

AFE- 64323

As a consideration, the above named Customer agrees to pay Basic Energy Services In accord with the rates and terms stated in Basic Energy Services current price lists. Invoices are payable NET 30 (SEE 10.2) after date of invoice. Upon Customer's default in payment of Customers account by such date, Customer agrees to pay interest thereon after default at 18% per annom. In the event it becomes necessary to employ an attorney to enforce collection of said account, Customer agrees to pay all the collection costs and attorney fees. These terms and conditions shall be governed by the laws of the state where services are performed or equipment or materials are furnished.

Basic Energy Services, warrants only title to the products, supplies and materials and that the same are free from defects in workmanship. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, MERCHANTABILITY,FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Basic Energy Services, liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, product liability, breach of warranty or otherwise) asising out of the sale or use of any products, supplies, or materials upon their return to Basic Energy Services. is expressly limited to the replacement of such products, supplies or materials upon their return to Basic Energy Services option, to the allowance to the Customer of credit for the cost of such items. In no event shall Basic Energy Services be liable for special, indirect, puritive or consequential damages.

CONTRACTOR STATE		11084	DESCRIPTION	PRICE	TOTAL
CODE	QTY	UOM EA	A-Con Blend	50.00	25000.00
BC118	500	SK	Class C Cement	29.00	4785.00
3C101	165	LB	Celloflake	4.00	1168.00
CC102	292	LB	Calcium Chloride	1.00	1722.00
CC109	1722		Gilsonite	1.00	501.00
CC201	501	LB	Guide Shoe - Regular, 8 5/8" (Blue)	380.00	380.00
CF253	1	Ea Ea	Accu-Seal Float Collar 8 5/8"	1050.00	1050.0
CF1294	1	Ea	Centralizer, 8 5/8" (Blue)	90.00	540.0
CF1753	6		Top Rubber Cement Plug, 8 5/8"	225.00	225.0
CF105	1 100	Ea MI	Heavy Equipment Mileage	8.00	1440.0
VIE102	180	SK	Blending & Mixing Service Charge	1.40	931.0
CE240	665	MI	Ton Mileage	3.00	5634.0
TM	1878	HR	Depth Charge, 1001'-2000'	1500.00	1500.0
CC2	1	EA	Plug Container Utilization Charge	250.00	250.0
CE504	1		Light Vehicle Mileage	5.00	300.0
ME101	60	MI	Cement Densiometer, with chart recorder	350.00	350.0
CE505	1	EA		75.00	75.0
BE143 BE144	1 2	EA EA	Supervisor Driver	35.00	70.0
		-		Book Total:	\$45,921.
				Taxes:	ANNE DE LA CONTRACTOR DE
				Disc. Price:	\$16,439.
			Additional 10% Discount as per Agreement on Cement Services	10% Disc	\$1,643.
			Additional 1070 Diodeth as part g	Adjusted Price	\$14,795.
PUMP TRUCK N		38117, 199		YES	NO
Dan	iel.	Bo	OPERATION OF EQUIPMENT WAS SATISFACTORY Chavez, Cony Blacks han Performance of Personel Was SATISFACTORY Del		
1	BASIC ENERGY	SERVICE	CUSTOMER OR HIS	AGENI	

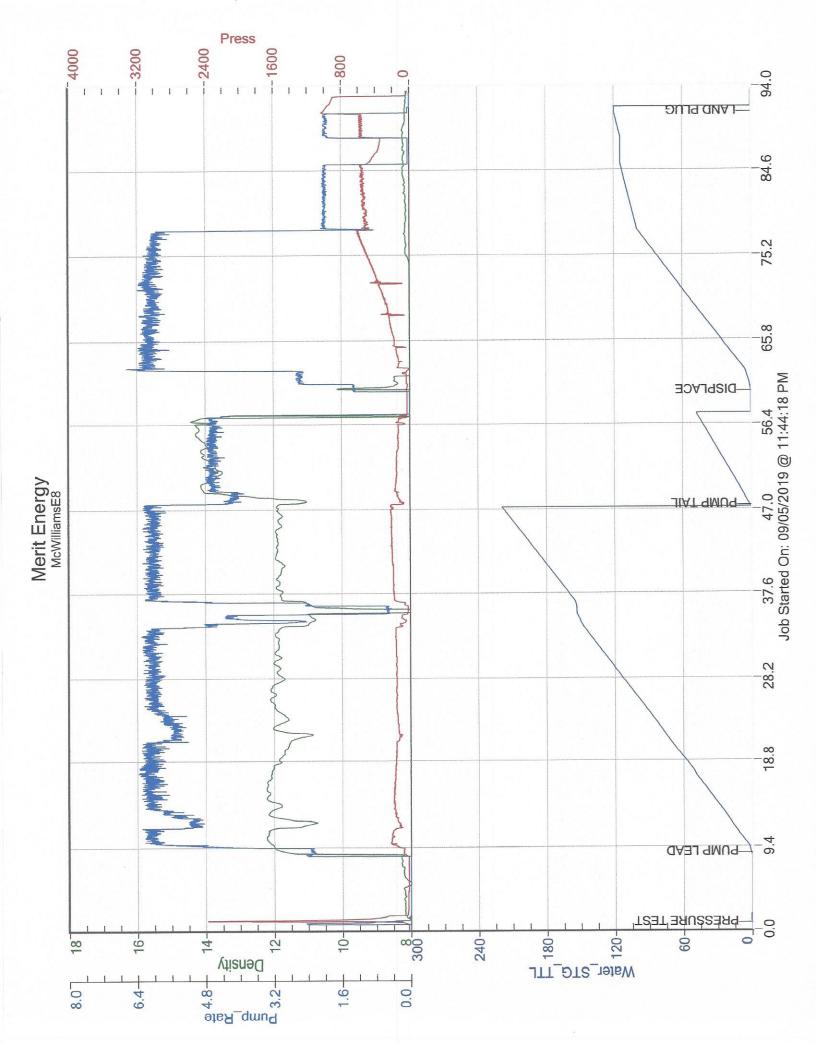


Liberal Yard #1717 - Phone 620-624-2277 - 1700 S. Country Estates Road, Liberal KS 67901

PRESSURE PUMPING

Job Log

	TO THE OWNER OF THE OWNER OWNER OF THE OWNER OWN		CONTRACTOR OF STREET	шиничний			Secretario de la constitución de la confesso		THE RESERVE THE PARTY OF THE PA	
Customer:	Merit Energy				Cement Pump No.:	38117, 19919 6Hrs.		Operator TRK No.:	9681	6 37712, 1988
Address:	gardencity.in	voices@meri	tenerg	y.cor	Ticket #:	1718 1	9659 L	Rulle TREE MO. 1	4355, 37724 Cory	37712, 198 Oscar
City, State, Zip:	AFE- 64323				Job Type:	Z-42 Cement Surface Casing			asing	
Service District:	1718 - Liberal, Ks.			Well Type:			OIL		200000000000000000000000000000000000000	
il Name and No.:	Mo	:Williams E#	8		Well Location:	21-24S-33W	County	Finney	State:	Kansa
Туре о	f Cmt	Sacks			Additives			Truck Load	led On	
A-Con'	Blend	500	3% Ca	alcium	Chloride, 1/4# Polyf	lake, 1# Gilsonite	14355, 3	7724 Cory	Front	Back
Clas	s C	165		2% Ca	alcium Chloride, 1/4	# Polyflake	37712, 19	9883 Oscar	Front	Back
									Front	Back
Lead	Tail:	Weight #1 Gal.	Cu/F	t/sk	Water Req	uirements	CU. FT.	Man H	ours / Persor	inel
Lea	ad:	12.1	2.4	41	13	.9	1205	TT Man Hours:	36.	5
Ta		14.8	1.3	34	6.3	33	221.1	# of Men on Job:	4	activities and a second
Time		Volume	Pur	mps	Press	ure(PSI)	[Description of Opera	tion and Material	S
(am/pm)	(BPM)	(BBLS)	Т	С	Tubing	Casing				
20:30	9					- Marie - Mari		ON LOCA	ATION	
21:30	Same Try proportion and out-of-the supplemental and the supplemental and							SAFETY M	EETING	
9:35 PM								RIG L	JP	
11:40 PM		-						RIG TO CIR	CULATE	
11:41 PM							SAFETY MEETING			
23:44							RIG TO PT			
23:45							PRESSURE TEST TO 2300PSI			1
11:53 PM	6	214.6 slurry				230	PUMP 500SX LEAD @ 12.1#			
0:34	4.6	39.3 slurry				180	PUMP 165SX TAIL @ 14.8#			
0:42							SHUTDOWN / DROP PLUG			
0:45	6.2	20				150	DI	SPLACE / CEM	ENT 20BBL I	N
	6.2	30				180				
	6	40				220				
	6	50				250				
	6	60				310				
	6.2	70				390				
	5.9	80				470				
	6	90				550				
	5.8	99				610	SLO	W RATE TO 2.	OBPM @ 490	PSI
	2	100				510				
	2	109.6				560	LAND P	LUG / PRESSU	IRE UP TO 10	020PSI
							RE	LEASE BACK -	FLOAT HEI	_D
								JOB COM	PLETE	
Size Hole	12 1/4"	Depth					TYPE	PI	ug Container	
Size & Wt. Csg.	8 5/8" 24#	Depth	1765	5.81'	New / Used		Packer		Depth	
Lanidng Press.	401.4psi	Depth					Retainer		Depth	
Shoe Jt.	41.65'	Туре					Perfs		CIBP	
						Basic Represe	entative:		Daniel Beck	
Customer Signature:					Basic Signatu	re:	Danie	& Bu	L	
			aptivations.			Date of Service	ъ.	9/5/2019		





E	Liberal, KS 67901 PH (620)-624-2277FAX (620) 624-2280		PH (620)-624-2277FAX (620) 624-2280	SERVICE ORDER - 1718 19688			
Well Name:	Description of the Control of the Co			Date:	9/8/2019		
Well Name: McWilliams E #	£ Q			Location:			
County - State:	. 0			21-24S-33W			
Finney, Kansas				RRC #:			
Type Of Service:				^ · · · · · · · ·			
Z-42 Cement P	roduction C	asing		Customer's Order #:			
	Customer: I	Merit Ene	ergy				
			y.invoices@meritenergy.com				
		AFE # 64					
As a consideration, the a default in payment of Cu	above named Custor stomers account by	mer agrees to p such date, Cus	pay Basic Energy Services In accord with the rates and terms stated in Basic Energy Services current price lists. Invoices are payable stomer agrees to pay interest thereon after default at 18% per annum. In the event it becomes necessary to employ an attorney to enfutions shall be governed by the laws of the state where sequices are performed on	NET 30 (SEE 10.2) after date of invoice	ce. Upon Customer's		
PARTICULAR PURPOS	warrants only title to E OR OTHERWISE	the products, WHICH EXTE	supplies and materials and that the same are free from defects in workmanship. THERE ARE NO WARRANTIES, EXPRESS OR IMIND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Basic Energy Services, liability and Customer's espansing out of the sale or use of any products, supplies, or materials unon their rethur in Basic Picarry Sarvices.	PLIED, MERCHANTABILITY, FITNESS	FOR A		
contract, tort, product lial or , at Basic Energy Serv	bility, breach of warr	anty or otherwi	es of arising out of the sale or use of any products, supplies, or materials upon to fit of the the sale or use of any products, supplies, or materials upon their return to Basic Energy Services, is expressly limite of Customer of credit for the cost of such items. In no event shall Basic Energy Services be liable for special, indirect, puntitive or const	xclusive remedy in any cause of action d to the replacement of such products.	(whether in supplies or materials		
, g, out	roco. opaon, to the t	anowance to the	e Customer of Great for the cost of such items. In no event shall Basic Energy Services be liable for special, indirect, punitive or conse	equential damages.	pp.nee or materials		
CODE	QTY	UOM	DESCRIPTION	DDICE	TOTAL		
BC133	230	SK	Class C 50/50 Poz	PRICE 23.50	TOTAL		
CC113	1164	LB	Gypsum	1.00	5405.0 1164.0		
CC111	1382	LB	Salt	0.50	691.0		
CC102	58	LB	Celloflake	4.00	232.0		
CC201	1151	LB	Gilsonite	1.00	1151.0		
CC105	49	LB	C-41P	4.00	196.0		
CC187	97	LB	C-17	24.00	2328.0		
CF851	1	Ea	5 1/2" Float Shoe(Blue)	425.00	425.0		
CF951	1	Ea	5 1/2" Float Collar(Blue)	420.00	420.0		
F1751	20	Ea	Centralizer, 5 1/2" (Blue)	80.00	1600.0		
F103	1	Ea	Top Rubber Cement Plug, 5 1/2"	105.00	105.0		
C151	500	GAL	Mud Flush	1.50	750.0		
718 1E102	24	Gal	Clayplex 650	35.00	840.0		
E240	120	MI	Heavy Equipment Mileage	8.00	960.0		
M	230 582	SK MI	Blending & Mixing Service Charge	1.40	322.0		
C6	1	HR	Ton Mileage	3.00	1746.0		
E504	1	EA	Depth Charge, 5001-6000'	2900.00	2900.0		
E101	60	MI	Plug Container Utilization Charge Light Vehicle Mileage	250.00	250.00		
E505	1	EA	Cement Densiometer, with chart recorder	5.00	300.0		
E143	1	EA	Supervisor	350.00	350.00		
				75.00	75.00		
E144	3	EA	Driver	25.00	105.00		
				35.00	105.00		
				New Market Control of the Control of			
				Book Total:	\$22,315.00		
				Taxes:			
			Additional 109/ Discount A	Disc. Price:	\$10,965.82		
			Additional 10% Discount as per Agreement on Cement Services	10% Disc	\$1,096.58		
				Adjusted Price	\$9,869.24		
JMP TRUCK NUMB	PR 27	223 19572		YES	NO		
- Thousand	77	/ 195/2	THIS SOB WAS SATISFACTORILY COMPLETED	Ц			
RIVER:	er /h	A 10 m	OPERATION OF EQUIPMENT WAS SATISFACTORY				
ayou	-	av J	PERFORMANCE OF PERSONEL WAS SATISFACTORY				
- /		/					
1/11	ter 1	1/1	Tre				
7/10 BASH	C ENERGY SE	RVICES	CUSTOMER OR HIS				



Liberal Yard #1717 - Phone 620-624-2277 - 1700 S. Country Estates Road, Liberal KS 67901

PRESSURE PUMPING Job Log

Customer:	Merit Energy Cement Pump No.:			37223 195	72 10HRS	Operator TRK No.:		88		
Address:	gardencity.invoices@meritenergy.cor			Ticket #:	1718 19	9688 L	Bulk TRK No.:	Bulk TRK No.: 14355 37724 Corey 14355 3773		
City, State, Zip:	AFF # 64323		Job Type:		Z-42 Cem	ent Production				
Service District:		718-Liberal KS	3	Well Type:			OIL			
II Name and No.:		cWilliams E#		Well Location:	21-24S-33W	County		State:	Kansa	
Type o		Sacks		Additives	21 240 0011		Truck Loa	2.2	ranoc	
туре о	ii Giiit	Sacks	6% C)	psum, 10% Salt, .5%	/- C 17 1/4#			lucu on		
Class C	50/50	230		mer,5# Gilsonite, 1/4		14355 37	724 Corey	Front	Back	
					旗	14355	37724	Front	Back	
							_	Front	Back	
Lead/	Tail:	Weight #1 Gal.	Cu/Ft/sk	Water Red	quirements	CU. FT.	Man	Hours / Persor	nel	
Lea	70.700	13.6	1.57	7.	18	361.1	TT Man Hours:	34		
Ta	il:						# of Men on Job:	3		
Time		Volume	Pumps	Press	sure(PSI)	Γ	Description of Oper	ration and Material	iterials	
(am/pm)	(BPM)	(BBLS)	T C	Tubing	Casing					
7:30am							Arrived at	location		
9:00am							Spot truck	s/Rig up		
10:00am	T (I a samilar mass						Safety n	neeting		
10:31am					2500	Pressure test lines to 2500psi				
10:33am	3	11.9		Control of Control	100	Pump 11.9bbls of Mud flush spacerr			err	
10:45am	3	13.9			zero	Pump 13.9bbls of cement for rat and mouse ho			ouse hole	
							from 50sks	at 13.6lbs		
11:10am	5	50			200	Pump 50bbls of cement from 180sks at 13.6lbs			t 13.6lbs	
11:27am						Shut down/Drop plug/Wash pump and lines			d lines	
11:38am						Start displ	acement of 11	8bbls with H20	0/4%KCL	
11:42am	6	20			50		20bbls	gone		
11:45am	6	40			50		40bbls	gone		
11:48am	6	60			20		60bbls	gone		
11:52am	6	80			210		80bbls	gone		
11:55am	6	100			600		100bbls			
11:57am	6	108			650		108bbls			
12:00am	3	118			1650		o plu/Hold pres			
12:05am	7					Relea	se pressure to	check if float h	nolds	
12:06am					1550	Pressure t	est casing for	15minutes with	1550psi	
							Rig down/Jol	a completed		
	, , , , , , , , , , , , , , , , , , ,					That	nked company		rew	
Size Hole	7 7/8	Depth		5146		TYPE		Float Collar		
Size & Wt. Csg.	5 1/2 17#	Depth	5146	New / Used		Float collar	5101.37	Depth		
Landing Psi	1000+	Depth	0170	1.507 / 0304		Retainer	3.51.67	Depth		
Shoe Joint	44.63	Туре				Perfs		CIBP		
	750	.,,,,,			Basic Represe		- / V	etor A. Corona	1	
Sustomer Sig	nature:				Basic Signatur		11/11/20		me	
astornor org					_ solo orginatur	e:	9/8/2019	UI I WI		

Pumping Order / Mixture

Client: Merit Energy

Date: 9/8/2019

Job: 5 1/2 Production

Well Name & No: McWilliams E-8

Location Supervisor: Victor A. Corona

COMPANY REP. Rodney Gonzales

Differential Pressure

Lift Pressure:

579 psi

500 psi

Recipe

Pressure Test PSI: 2500

MAX PSI: 1500

12 BBLS OF MUD FLUSH SPACER

13 BBLS CEMENT R&M YIELD 1.57

13.6 LBS

50SKS 7.18G/SK

50 BBLS TAIL SLURRY YIEL 1.57

13.6 LBS

1800SKS 7.18G/SK

DROP PLUG/WASH PUMP ON TO PIT

118.0 BBLS OF DISPLACEMENT

108.0 BBLS @ 5 BPM

10.0 BBLS AT 2-3 BPM TO BUMP PLUG

DISP PLUG WITH 118 BBLS OF H20/4%KCL



Company		71/7	\$	Service Point		ral, Kansas		
W-U T	-	Merit Energy		Contact Person	n Tyce	Davis	Ph#	620-388-3
Well Type Lease		Contractor McWilliams E	Duke 9		County	finney	State	Kansas
Directions:		WICW IMIAMS E	Well# 8	Sec	21	Twp 24S	Range	33W
Garden (City: Sout	th to Jct 83 & BUS 83; RD, 3	North on Bus miles west on	83 to Rive Sagbrush	r Drive; V RD; Sout	West on River D th to rig	rive 1.4 Mi	les to Sagebi
Job Type		Production		Casing	Size 5 1/2	Thread 8 Rnd	Weight	17
				Tubing/	Orill Pipe Size	Thread	Weight	17
Equipiment		1 Pump Truck 1 Bulk	Truck	Hole Siz				
		1	114611	1109 312		Packer	Bridge Plug	
AFE #		-		Plug Co	7 7/8	Squeeze Manifold	Field Bin	
					Ves			
Producti	ion: Use	50sksof tail cement	to plug Rat &	Mouse;	Cement (Casing With 18	0 sks; Dis	place with
				KCL		***************************************		
LEAD 1	Weight PPG	Турс	CEN	IENT DATA				
				Accinve	43			
ncks	Excess	Yield Ft ^o /sk	Water Gal/sk					
2002			water Gal/sk					
TAIL 1	Weight PPG	Туре		Additives				
BC133	13.60	Class C	50/50	6% G	ypsum, 10% flake	6 Salt, .5% C-17, 1/4	# Defoamer,	5# Gilsonite, 1
230	30%	Yield FP/sk 1.57	Water Gal/sk 7.18	Cono	nanc			
LEAD 2	Weight PPG	Type	7.18	Additives				-
				Auditor				
cks	Excess	Yield Ft ^o /sk	Water Gal/sk					
			Water Gallsk					
TAIL 2	Weight PPG			Additives				
iks	Excess	Yield Ft ⁸ /sk	Water Gal/sk					
Mouse/Rat	Weight PPG	Туре		Additives				
ks	Excess	Yield FP/sk	Water Gal/sk					
Plugs	Weight PPG	Туре		Additives				
ks	Excess	Yield Ft ^o /sk	Water Gal/sk					
			F1					
Part#	Quanity	Descrip	tion	Equipmen		# U	boa	# Det
CF851	1	5 1/2" Float Shoe(Blue)			#0	oeu	# Returned
CF951	1	5 1/2" Float Collar(Blu						
CF1751	20	Centralizer, 5 1/2" (Bh						
CF103	1	Top Rubber Cement Pl	ug, 5 1/2"					
		<u> </u>		OI				
CC151	500	Mud Flo		Chemicals	<u> </u>			
C718	24	Clayplex		-				
5,10	27	Ciaypiex	030					
red By	uke Lau	Phone	972-628-1680			Date of Job		
		riione	14-040-1000	Fax				
aless Dec	ax Ball	Phone	620-675-5025	Email		Time Ready		

DATE

6108-8-6

COMPANY

Merit Mc Williams E. Well #8

DIRECTIONS

蒙蒙

FRONT POT 50/50

115 SACKS

37.

774

fours to Load Truck



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

Well Name: McWilliams E-8

Well Id:

Location: Sec. 21 T24S R33W, Finney Co., Kansas

License Number: 15-055-22523-0100 Region: Wildcat Spud Date: Sept. 3rd, 2019 Drilling Completed: Sept. 7th, 2019

Surface Coordinates: SW SE SW NW

Bottom Hole Coordinates:

Ground Elevation (ft): 2921'

Logged Interval (ft): 3900'

K.B. Elevation (ft): 2933'

To: 5146'

Total Depth (ft): 5146'

Formation: Morrow, Chester Type of Drilling Fluid: Natural Chemical

Deieste di les WellGielet I. e. Vierre de les WellGielet G

Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: MERIT ENERGY CO.

Address: 13727 NOEL ROAD, # 1200 Tower 2

DALLAS, TX 75240

Co. Geo: Martin Lange / Cameron Guthrie

GEOLOGIST

Name: Aaron Suelter Company: Earth Tech OGL,Inc Address: PO Box 683

Hooker, Oklahoma 73945

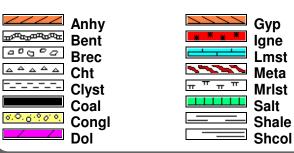
Off: 888-543-8378 Cell: 620-600-0777

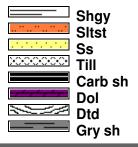
SURVEYS

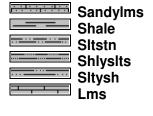
1879' INC 1.44 AZI 178.1 1973' INC 4.42 AZI 176.8 2067' INC 6.10 AZI 172.2 2161' INC 7.68 AZI 175.0 2255' INC 9.19 AZI 167.5 2349' INC 10.03 AZI 170.3 2444' INC 10.25 AZI 163.99 2537' INC 9.27 AZI 165.1 2631' INC 10.57 AZI 154.7 2725' INC 10.56 AZI 154.5 2817' INC 10.30 AZI 155.3 2912' INC 9.81 AZI 154.9 3006' INC 10.85 AZI 158.5 3101' INC 10.27 AZI 158.3 3193' INC 9.99 AZI 157.9 3287' INC 8.80 AZI 159.58 3380' INC 10.31 AZI 153.5 3474' INC 9.40 AZI 154.2 3569' INC 10.35 AZI 154.7 3663' INC 10.13 AZI 155.1 3758' INC 9.96 AZI 154.6 3852' INC 10.12 AZI 156.1 3945' INC 9.90 AZI 155.0 4038' INC 9.58 AZI 158.0 4132' INC 11.49 AZI 155.2 4225' INC 11.34 AZI 155.5 4319' INC 11.12 AZI 153.7 4414' INC 10.76 AZI 154.5 4508' INC 10.24 AZI 152.9 4601' INC 9.61 AZI 154.5 4696' INC 8.96 AZI 162.3 4788' INC 9.45 AZI 157.2 4884' INC 10.64 AZI 164.4 4977' INC 9.53 AZI 161.0 5069' INC 9.22 AZI 163.2 5101' INC 8.97 AZI 163.7

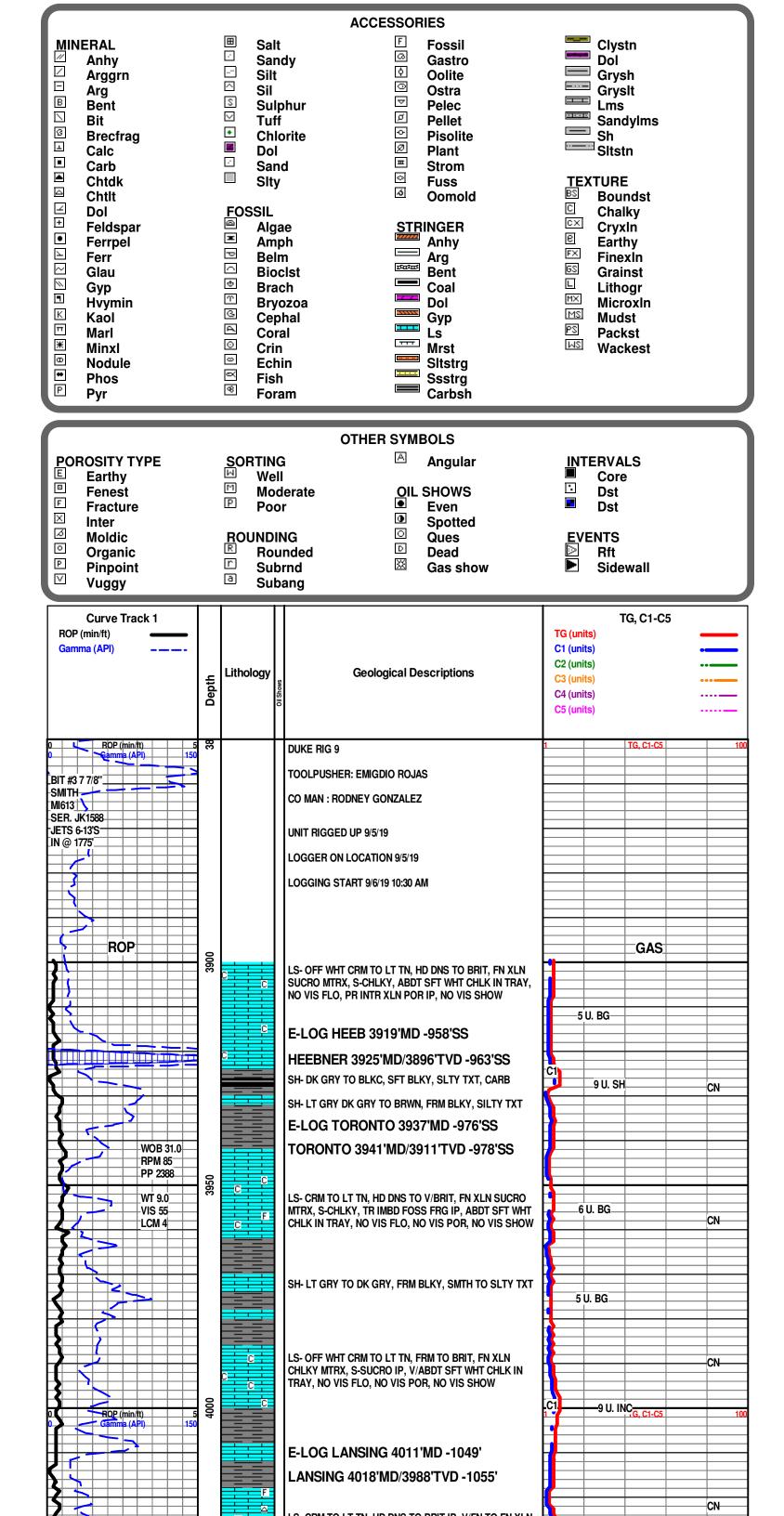
1785' INC 0.75 AZI 332.2

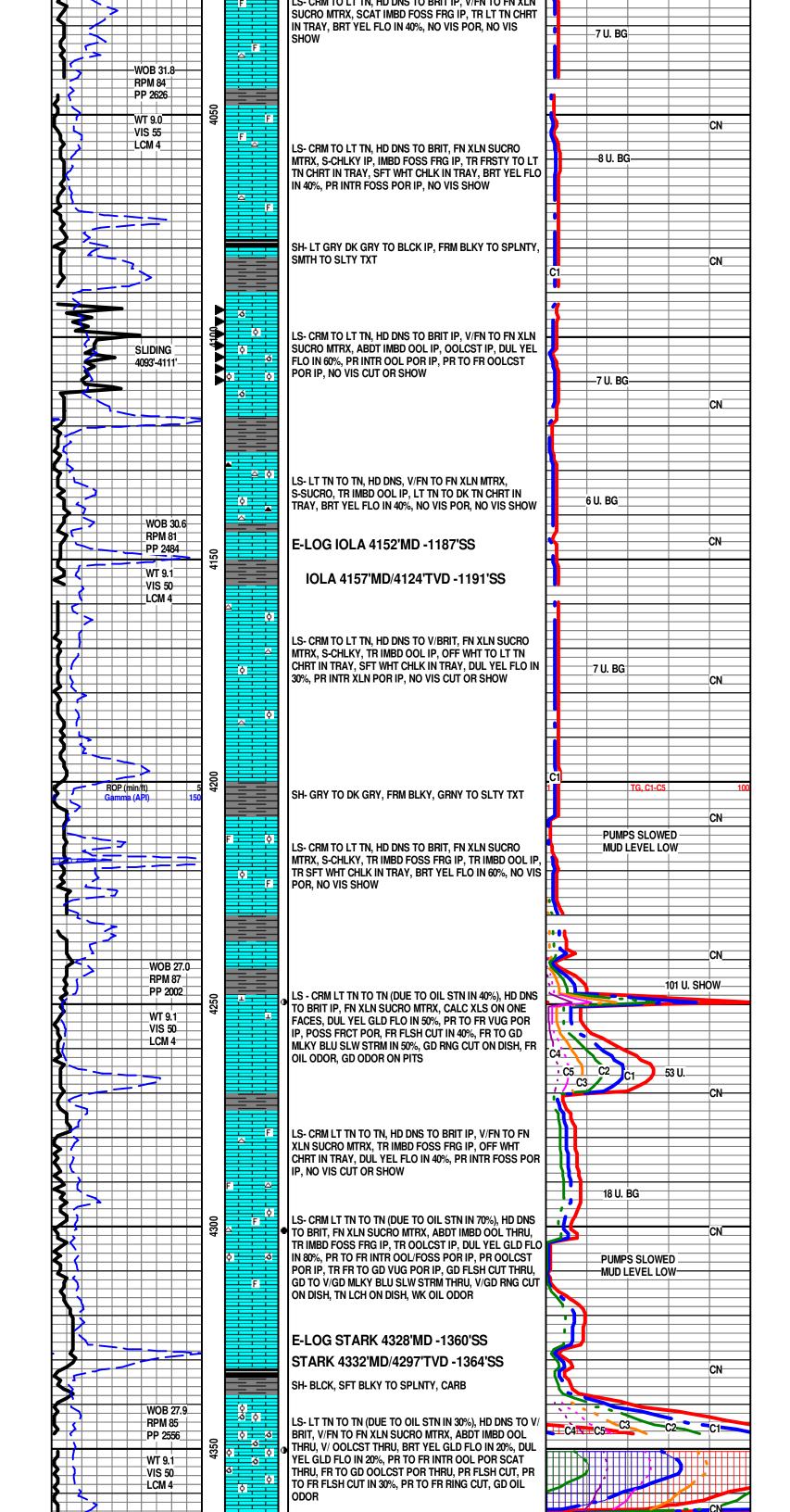
ROCK TYPES

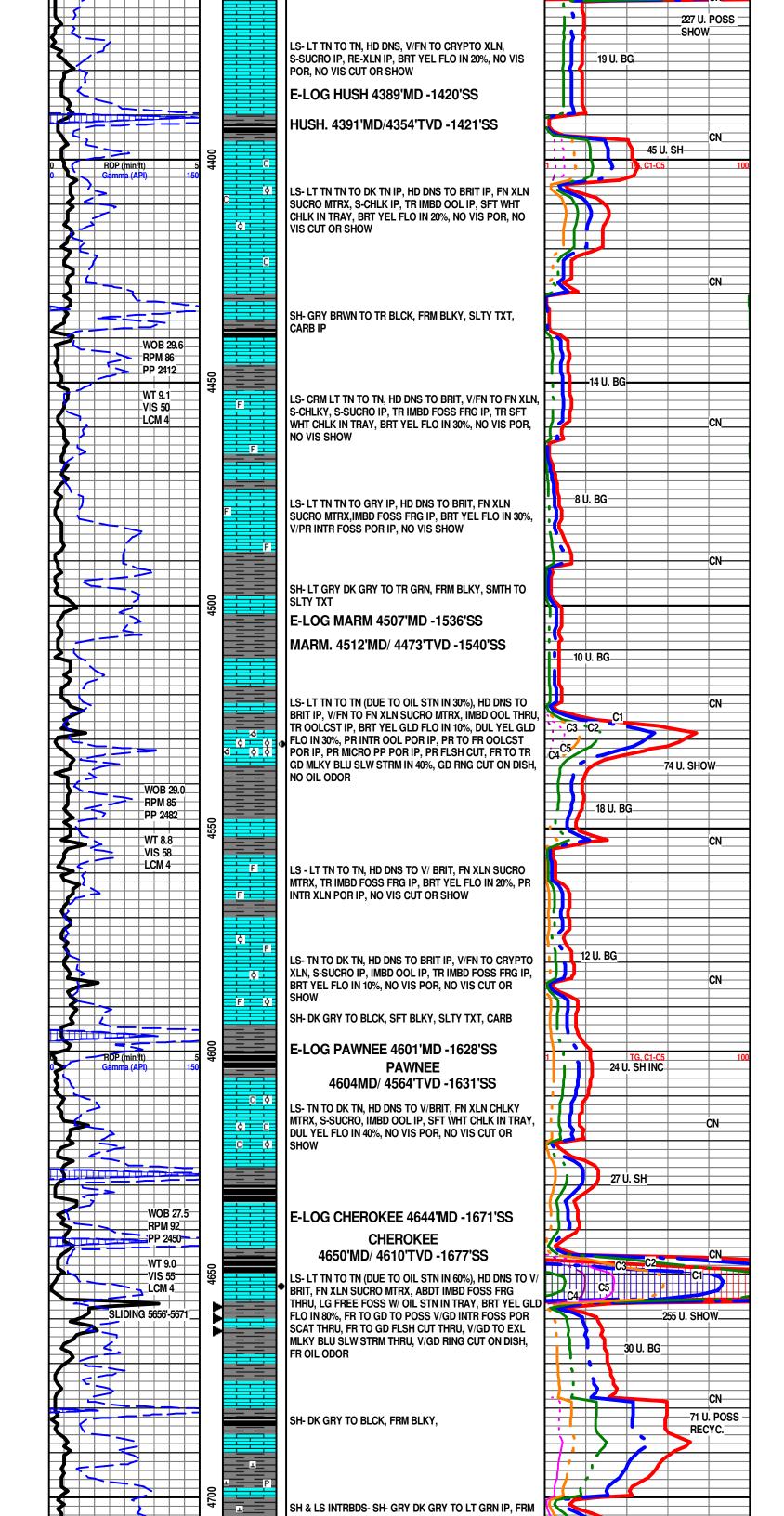


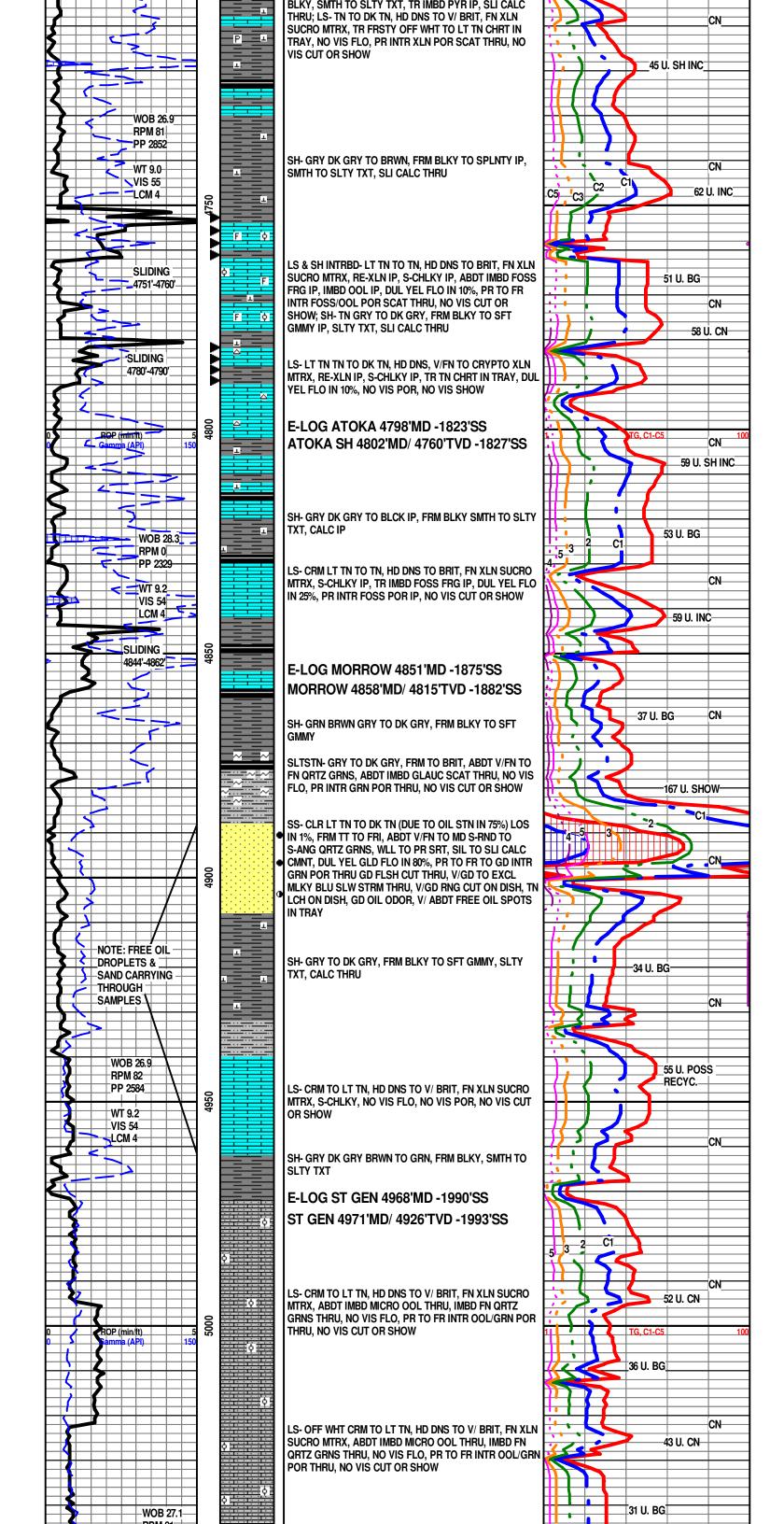


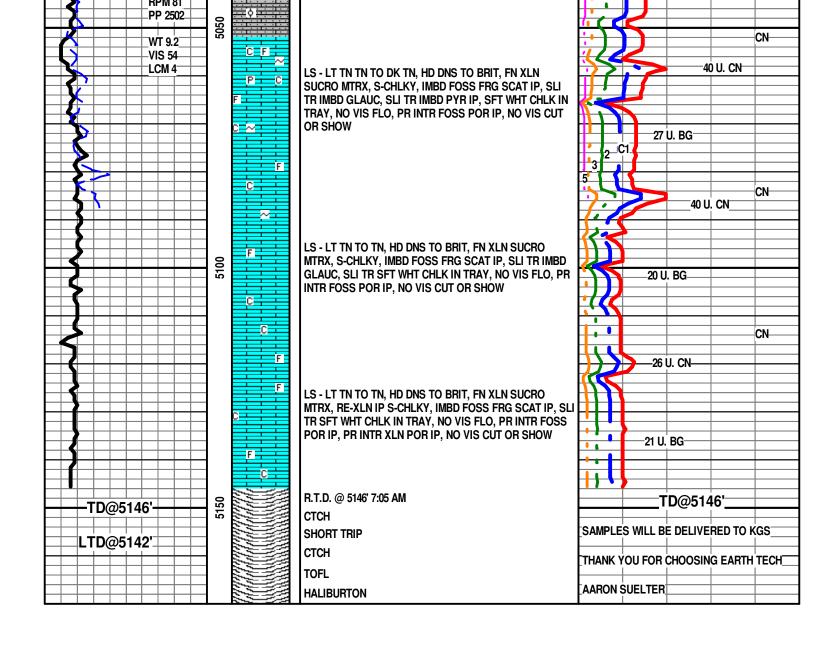












Merit Ener gy Finney County, KS McWilliam: E-8 - M

(NAD 27) cWilliams E-8

McWilliam: E-8

Measured Depth (ft)	Inc		Azimuth	Vertical Depth (ft)	Local Northing (ft)	Local Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
0)	0	0	0	0	0	0	0
296	<u>;</u>	0.1	273.2	296	0.01	-0.26	-0.11	0.03
416	;	0.1	334.2	416	0.11	-0.41	-0.27	0.08
563		0.2	355.2	563	0.49	-0.49	-0.64	0.08
720)	0.4	35.2	720	1.21	-0.19	-1.19	0.18
878	;	0.6	26.2	877.99	2.4	0.49	-2.01	0.14
1036	;	1.2	21.1	1035.97	4.69	1.45	-3.74	0.38
1193		0.9	27.2	1192.95	7.32	2.61	-5.71	0.2
1321		0.9	27.2	1320.93	9.1	3.53	-6.99	0
1511		1.4	42.2	1510.89	12.15	5.77	-8.92	0.31
1708	;	1	10.2	1707.85	15.63	7.69	-11.36	0.39
1785)	0.75	332.25	1784.84	16.73	7.57		
1879)	1.44	178.1	1878.84	16.1	7.33	-11.93	2.28
1973		4.42	176.85	1972.7	11.3	7.56	-7.43	3.17
2067	,	6.1	172.27	2066.3	2.73	8.43	0.79	1.84
2161		7.68	175.05	2159.62	-8.48	9.65	11.58	1.72
2255	ì	9.19	167.54	2252.61	-22.06	11.81	24.93	1.99
2349)	10.03	170.36	2345.29	-37.46	14.8	40.27	1.02
2444		10.25	163.99	2438.81	-53.74	18.52	56.7	1.2
2537	,	9.27	165.17	2530.45	-68.94	22.72	72.33	1.08
2631		10.57	154.72	2623.05	-84.06	28.34	88.43	2.36
2725	,	10.56	154.53	2715.46	-99.63	35.72	105.66	0.04
2817	,	10.29	155.39	2805.94	-114.71	42.77	122.29	0.34
2912		9.81	154.99			49.72	138.86	0.51
3006	,	10.85	158.54	2991.96	-145.25	56.35	155.71	1.3
3101	·	10.27	158.36	3085.35	-161.44	62.74	173.12	0.61
3193		9.99	157.91	3175.92	-176.46	68.77	189.29	0.32
3287	,	8.8	159.58	3268.65	-190.75	74.34	204.63	1.3
3380)	10.31	153.51	3360.36	-204.87	80.54	220.04	1.95
3474	=	9.4	154.28	3452.98	-219.32	87.62	236.11	0.98
3569)	10.35	154.7	3546.57	-234.02	94.63	252.39	1
3663		10.13	155.16	3639.07	-249.16	101.72	269.09	0.25
3758	;	9.96	154.61	3732.61	-264.16	108.75	285.65	0.21
3852		10.12	156.1	3825.17	-279.05	115.58	302.03	0.32

3945	9.9	155.09	3916.76	-293.77	122.26	318.19	0.3
4038	9.58	158.01	4008.42	-308.2	128.52	333.91	0.63
4132	11.49	155.29	4100.83	-323.96	135.36	351.1	2.1
4225	11.34	155.58	4191.99	-340.7	143.02	369.5	0.17
4319	11.12	153.74	4284.19	-357.25	150.85	387.79	0.45
4414	10.76	154.55	4377.46	-373.47	158.71	405.79	0.41
4508	10.24	152.99	4469.89	-388.84	166.28	422.9	0.63
4601	9.61	154.59	4561.5	-403.21	173.36	438.9	0.74
4696	8.96	162.39	4655.26	-417.43	179	454.19	1.49
4788	9.45	157.27	4746.07	-431.22	184.09	468.87	1.04
4884	10.64	164.47	4840.6	-447.03	189.51	485.54	1.8
4977	9.53	161.01	4932.17	-462.58	194.31	501.73	1.36
5069	9.22	163.29	5022.94	-476.84	198.91	516.65	0.53
5101	8.97	163.72	5054.54	-481.69	200.35	521.68	0.81
5146	8.97	163.72	5098.99	-488.43	202.31	528.64	0

All data a re in fe et unless otherwise stated. Direcons and connates are relative to Grid North. Vertical depths are relative to RKB. Northings an astings are lative to Well.

The Dogleg Severit y is in D egrees per 00 feet.

Vertical S ection i s from SI ot and calc lated along Azimuth of 6.910° (Gri d).

Coordinate System is NAD 19 27 (NADCO ONUS) US SPlane 1927 xact solution), Kansas South 1502

Central me ridian i s -98.500 °.

Grid Convergence a t Surface is -1.508°.

Based upor Minimum Curvatur e type calculations, at a Measured 1 of 5146.00 ft., the Bottom Hole Di splacemen t is 528.67ft., in the Di ection of 11910° (Grid).

2.