Confidentiality Requested: Yes No

KANSAS CORPORATION COMMISSION **OIL & GAS CONSERVATION DIVISION**

1155390

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

WELL COMPLETION FORM

		•••••				
WELL	HISTORY	- DESCF	RIPTION	OF W	ELL &	LEASE

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.xxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
	Producing Formation:
☐ Oil ☐ WSW ☐ SWD ☐ SIOW □ Gas □ D&A □ ENHR □ SIGW	Elevation: Ground: Kelly Bushing:
Gas D&A ENHR SIGW	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:	
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)
Commingled Permit #:	Chloride content: ppm Fluid volume: bbls
Dual Completion Permit #:	Dewatering method used:
SWD Permit #:	Location of fluid disposal if hauled offsite:
ENHR 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 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 1000 1155390
Operator Name:	Lease Name: Well #:
Sec TwpS. R East West	County:

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 Taker (Attach Additional		Yes No	L	og Formatio	n (Top), Depth and	d Datum	Sample
Samples Sent to Geo		Yes No	Nam	Э		Тор	Datum
Cores Taken Electric Log Run		Yes No					
List All E. Logs Run:							
		CASING Report all strings set-c			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 / SQL	EEZE RECORD			
Purpose: Perforate	Depth Top Bottom	Type of Cement	# Sacks Used		Type and Pe	ercent Additives	
Protect Casing Plug Back TD							
Plug Off Zone							
Did you perform a hydrai	ulic fracturing treatment of	on this well?		Yes	No (If No, skip	questions 2 an	nd 3)
Does the volume of the t	otal base fluid of the hyd	raulic fracturing treatment ex	ceed 350,000 gallons'	? Yes	No (If No, skip	question 3)	
Was the hydraulic fractur	ring treatment information	n submitted to the chemical o	lisclosure registry?	Yes	No (If No, fill o	out Page Three o	of the ACO-1)
	PERFORATIO	ON RECORD - Bridge Plug	s Set/Type	Acid Fra	ture Shot Cement	Squeeze Becord	4

Shots Per Foot				Each Interval Perfe		6			l of Material Used)	Depth
TUBING RECORD:	Siz	ze:	Set At:		Packer	r At:	Liner F		No	
Date of First, Resumed	Producti	ion, SWD or ENHF	} .	Producing Meth	od: Pump	ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas I	Иcf	Wate	er	Bbls.	Gas-Oil Ratio	Gravity
DISPOSITI		as.		M	ETHOD (OF COMPLE	TION		PRODUCTION INTER	RVAL ·
Vented Solo		Jsed on Lease			Perf.	Un Convin LL	Comp.	Commingled (Submit ACO-4)		
(If vented, Su	bmit ACO	0-18.)		Other (Specify)		(Subinit P	,	(<i>Submit A</i> CC-4)		

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

EMIT TO P.O. I SOUT	BOX 93999 THLAKE, 1		5092		SE		eloège KS
DATE 6-19-13	SEC.	TWP.	RANGE	CALLED OUT AN	ON LOCATION		JOB FINISH
easeZ-Bar	WELL#		LOCATION Coffe	age Creek + A	the Rd.	Barber	Kansas
OLD OK NEW (C	ircle one)		least af	for of Hill s	both in-	to	
CONTRACTOR	RIG R	alcots	S	OWNER M	ILM 5	ploration	•
TYPE OF JOB CC	Dig Du	r icer.	5	OWNER //	FIII CI	porarior	Į
HOLE SIZE 30		T.D)	CEMENT		2	
CASING SIZE			PTH	AMOUNT ORI	DERED		· · · · · · · · · · · · · · · · · · ·
TUBING SIZE			PTH		50:50:6	1.6e(+31 +31.11	20 +19 FIL
DRILL PIPE			PTH PTH	<u>50.3×.</u>	LIUS TI		
PRES. MAX	100			COMMON A	50 sx	@ 17.90	895.00
MEAS. LINE		SH	OE JOINT	POZMIX		@	
CEMENT LEFT I	N CSG.			GEL	6 -		.320.00
PERFS. DISPLACEMENT	E	nor hun	La Conto Bhi	CHLORIDE	5 SX	@ <u>&_7.00</u> @	320.00
DISFLACEMEN		<i>eshwa</i> - JIPMENI		FloseaL	25	@2.97	74.25
	EQU	JIPIVILAND		ALW	100 SX	@ 15.00	1500.00
PUMP TRUCK	CEMENT	ER Car	Rading			@	
#360-302	HELPER		./ //			@	
BULK TRUCK			1. D	·····		@	
#364	DRIVER	JUS-	fin Bown	<u> </u>		@	,
BULK TRUCK	DDIVED					@	
#	DRIVER	F.I		— HANDLING_ MILEAGE_Z		<u>@2.48</u> 2.60	- 414.90
	AC	MARKS:	6			IUIA	L3670.49
					SER	VICE	
Thank	UDJ			DEPTH OF JC	1		
	Чол			DEPTH OF JC	, 08 <u>.50</u> (CHARGE _		
Th4nk	Чол			PUMP TRUCH EXTRA FOOT	, BB <u>,50</u> CCHARGE TAGE	EVICE /512.25 @	
Th4nk	Чо <i>У</i>			PUMP TRUCH EXTRA FOOT MILEAGE	, BB <u>,50</u> CCHARGE TAGE	WICE /512.25 @@@	192.50
Th4nk	Чол			PUMP TRUCH EXTRA FOOT MILEAGE MANIFOLD	, BB <u>,50</u> CCHARGE TAGE	EVICE 	192.50 //D.00
	1.			PUMP TRUCH EXTRA FOOT MILEAGE MANIFOLD _ ∠υ	, 08. <u>50</u> (CHARGE 25	EVICE 	
CHARGE TO:	γ. γ]+M		ploration	PUMP TRUCH EXTRA FOOT MILEAGE MANIFOLD	, 08. <u>50</u> (CHARGE 25	e <u>/512.25</u> <u>@</u> <u>7.70</u> <u>@</u> <u>7.70</u> <u>@</u> <u>7.40</u> <u>@</u>	110.00
CHARGE TO: _/	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			PUMP TRUCH EXTRA FOOT MILEAGE MANIFOLD _ 	, bb. <u>50</u> (CHARGE 2S 2S	e <u>/512.25</u> <u>@</u> <u>7.70</u> <u>@</u> <u>7.70</u> <u>@</u> <u>7.40</u> <u>@</u>	//0.00 L 1814.75
CHARGE TO: _/	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			PUMP TRUCH EXTRA FOOT MILEAGE MANIFOLD _ 	, bb. <u>50</u> (CHARGE 2S 2S	EVICE 	//0.00 1. <u>1814</u> .75
CHARGE TO: _/	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			PUMP TRUCH EXTRA FOOT MILEAGE MANIFOLD _ 	, bb. <u>50</u> (CHARGE 2S 2S	EVICE 	//0.00 l 18/4.75
CHARGE TO: STREET CITY	<i>V</i> <i>Y</i> ∕+ <i>M</i>		ZIP	PUMP TRUCH EXTRA FOOT MILEAGE MANIFOLD _ 	, bb. <u>50</u> (CHARGE 2S 2S	EVICE 	 1. <u>1814</u> .75 2NT
CHARGE TO: STREET CITY To: Allied Oil a You are hereby	₹ Y Y Y Y Y Y Y Y Y Y Y Y Y	TATE vices, LL	ZIP C. ementing equipmer	PUMP TRUCH EXTRA FOOT MILEAGE MANIFOLD 	, bb. <u>50</u> (CHARGE 2S 2S	EVICE 	 L ENT
CHARGE TO: STREET CITY To: Allied Oil of You are hereby and furnish cer	& Gas Ser requested	TATE vices, LL ¹ l to rent co l helper(s)	C. ementing equipments to assist owner or	PUMP TRUCH EXTRA FOOT MILEAGE MANIFOLD	, bb. <u>50</u> (CHARGE 2S 2S	EVICE 	 L ENT
CHARGE TO: STREET CITY To: Allied Oil a You are hereby and furnish cer contractor to de	& Gas Ser requested nenter and o work as	TATE vices, LL l to rent co l helper(s) is listed.	C. ementing equipment to assist owner or The above work w	PUMP TRUCH EXTRA FOOT MILEAGE MANIFOLD	, bb. <u>50</u> (CHARGE 2S 2S	EVICE 	 L ENT
CHARGE TO: STREET CITY To: Allied Oil a You are hereby and furnish cer contractor to da done to satisfad	& Gas Ser requested nenter and o work as ction and s	TATE vices, LL l to rent co l helper(s) is listed. supervisio	C. ementing equipment to assist owner or The above work w on of owner agent o	PUMP TRUCH EXTRA FOOT MILEAGE MANIFOLD	, bb. <u>50</u> (CHARGE 2S 2S	EVICE 	
CHARGE TO: STREET CITY To: Allied Oil a You are hereby and furnish cer contractor to de done to satisfac contractor. I ha	& Gas Ser requested nenter and o work as ction and s ave read a	TATE vices, LL l to rent co l helper(s) is listed. supervisio nd unders	ZIP C. ementing equipment to assist owner or The above work w on of owner agent o tand the "GENER/	PUMP TRUCH EXTRA FOOT MILEAGE	, pB <u>50</u> (CHARGE	EVICE 	L 1814.75
CHARGE TO: STREET CITY To: Allied Oil a You are hereby and furnish cer contractor to de done to satisfac contractor. I ha	& Gas Ser requested nenter and o work as ction and s ave read a	TATE vices, LL l to rent co l helper(s) is listed. supervisio nd unders ONS'' Jis	ZIP C. ementing equipmen to assist owner or The above work w on of owner agent o tand the "GENER/ ted on the reverse s	PUMP TRUCH EXTRA FOOT MILEAGE	, pB <u>50</u> (CHARGE	EVICE 	L 1814.75
CHARGE TO: STREET CITY To: Allied Oil a You are hereby and furnish cer contractor to de done to satisfae contractor. I ha TERMS AND	& Gas Ser requested nenter and o work as ction and s ave read a CONDITI	TATE vices, LL l to rent co l helper(s) is listed. supervisio nd unders ONS'' Jis	ZIP C. ementing equipmen to assist owner or The above work w on of owner agent o tand the "GENER/ ted on the reverse s	PUMP TRUCH EXTRA FOOT MILEAGE MANIFOLD	, AGE 2S 2S PLUG & FLA (If Any) RGES_S4	EVICE $\frac{1512.25}{0}$ @ 7.70 @ 7.70	L <u>1814.75</u>
CHARGE TO: STREET CITY To: Allied Oil a You are hereby and furnish cer contractor to de done to satisfac contractor. I ha	& Gas Ser requested nenter and o work as ction and s ave read a CONDITI	TATE vices, LL l to rent co l helper(s) is listed. supervisio nd unders ONS'' Jis	ZIP C. ementing equipment to assist owner or The above work w on of owner agent o tand the "GENER/		, pB <u>50</u> (CHARGE	EVICE $\frac{1512.25}{0}$ @ 7.70 @ 7.70	L 1814.75

ALLIED OIL & GAS SERVICES, LLC 059547 Federal Tax 1.D.# 20-5975804

	D.# 20-5975804			
REMIT TO P.O. BOX 93999		SERV	ICE POINT:	
SOUTHLAKE, TEXAS 76092				Ne LOLGE, KS
			<u>preceter</u>	The LOUGH (R)_
DATE 7-2-2613 SEC. TWP. RANGE ISW C	ALLED OUT	ON LOCATION	JOB START	JOB FINISH
			COUNTY	3:05pm
LEASE 2 BGr WELL # 22-4 LOCATION Deing &	Cottoge Cree	or R. 1-Pash	Barber	STATE
OLD OR NEW (Circle one) South into				
			_	
CONTRACTOR Haret #1	OWNER Ma	m Explore	tion	
TYPE OF JOB SUP Race			<u> </u>	
HOLE SIZE 1244 T.D. 934'	CEMENT			
CASING SIZE 88/8 24 H DEPTH 934	AMOUNT ORI	DERED 285	sx65:35	690 Gel
TUBING SIZE DEPTH	3%cc+1	4#Flosor	1505× CI	4 229
DRILL PIPE DEPTH	3º/acc + 2'	lo Goj		
TOOL DEPTH		1 10-		0.100.10
PRES. MAX MINIMUM	COMMON_A	7 /SO 3X	@ 17.90	2685.60
MEAS. LINE SHOE JOINT 42'	POZMIX			
CEMENT LEFT IN CSG. 42'	GEL	15	@23.40	351.00
PERFS.	CHLORIDE	13	@64.00	832.00
DISPLACEMENT 58 bbis of frash weter	ASC		@	11
EQUIPMENT	1	285 SX	@ 15.00	425,00
	+lostal	/(-		210.87
PUMPTRUCK CEMENTER Derin F.			_@	
#358-555 HELPER Scott &		······································	_@	
BULK TRUCK			_@	-
#541.553 DRIVER JGmes B.			_@	
BULK TRUCK	u		@ @	
# DRIVER	HANDLING	482.05	@ 2.48	484.53
	MILEAGE		20,731	1348.03
REMARKS:	MILLAUL 22	90-00		
		•	TOTAI	10,186.43
See Cement Log				
Company Rice		SERVI	CE	
Cement die Circulete		0.7		
	D DIDOUT O D TO	B 7541		
	DEPTH OF JO	GULDOR O	ACT CA	
	PUMP TRUCK	CHARGE)
	PUMP TRUCK EXTRA FOOT	AGE	_@	
	PUMP TRUCK EXTRA FOOT MILEAGE	AGE ZS	@@ @7.70	192.50
	PUMP TRUCK EXTRA FOOT MILEAGE MANIFOLD	AGE 25 testrentsi	_@ _@ <u>7.>0</u>	192.50
	PUMP TRUCK EXTRA FOOT MILEAGE	AGE ZS	@ @7.70 @ @4.40	192.50
	PUMP TRUCK EXTRA FOOT MILEAGE MANIFOLD	AGE 25 testrentsi	_@ _@ <u>7.>0</u>	192.50
CHARGE TO: MEM Explored On	PUMP TRUCK EXTRA FOOT MILEAGE MANIFOLD	AGE 25 testrentsi	@ @ @ @ 	192.50 275.60 110-00
	PUMP TRUCK EXTRA FOOT MILEAGE MANIFOLD	AGE 25 testrentsi	@ @ @ @ 	192.50
STREET	PUMP TRUCK EXTRA FOOT MILEAGE MANIFOLD	AGE 25 testrentsi	@ @ @ @ 	192.50 275.60 110-00
· · · · · · · · · · · · · · · · · · ·	PUMP TRUCK EXTRA FOOT MILEAGE MANIFOLD	AGE ZS teastenes ZS	@ @_ <u>7.70</u> @ @ @ TOTAI	792.50 275.60 110-00 2636.00
STREET	PUMP TRUCK EXTRA FOOT MILEAGE MANIFOLD	AGE ZS tectrents 2S PLUG & FLOA	@ @ @ @ 	<u>792.50</u> <u>275.60</u> <u>710-00</u> 2636.00
STREET	PUMP TRUCK EXTRA FOOT MILEAGE MANIFOLD	AGE ZS tectrents 2S PLUG & FLOA	@ @ @ @ 	<u>792.50</u> <u>275.60</u> <u>710-00</u> 2636.00
STREET	PUMP TRUCK EXTRA FOOT MILEAGE MANIFOLD	AGE ZS tectrents 2S PLUG & FLOA	@ @ @ @ 	<u>792.50</u> <u>275.60</u> <u>710-00</u> 2636.00
STREET STATE ZIP	PUMP TRUCK EXTRA FOOT MILEAGE MANIFOLD	AGE ZS tectrents 2S PLUG & FLOA	@ @ @ @ 	<u>792.50</u> <u>275.60</u> <u>710-00</u> 2636.00
STREET STATE ZIP CITY STATE ZIP To: Allied Oil & Gas Services, LLC.	PUMP TRUCK EXTRA FOOT MILEAGE MANIFOLD	AGE ZS teastentsi ZS PLUG & FLOA	@ <u>7.>></u> @ <u>7.>></u> @ <u>4.40</u> @ TOTAI T EQUIPME _ @ @ @	<u>792.50</u> <u>275.60</u> <u>710-00</u> 2636.00
STREET STATE ZIP CITY STATE ZIP To: Allied Oil & Gas Services, LLC. You are hereby requested to rent cementing equipment	PUMP TRUCK EXTRA FOOT MILEAGE MANIFOLD	AGE ZS teastenes ZS	@ @ 7.>⊃ @ @ @ TOTAI T EQUIPME @ @ @ @ @ @	792.50 275.60 110-00 2636.00 NT 76-28 67.50 220,00
STREET	PUMP TRUCK EXTRA FOOT MILEAGE MANIFOLD	AGE ZS teastentsi ZS PLUG & FLOA	@ <u>7.>></u> @ <u>7.>></u> @ <u>4.40</u> @ TOTAI T EQUIPME _ @ @ @	792.50 275.60 110-00 2636.00 NT 76-28 67.50 220,00
STREET CITY STATEZIP To: Allied Oil & Gas Services, LLC. You are hereby requested to rent cementing equipment	PUMP TRUCK EXTRA FOOT MILEAGE MANIFOLD	AGE ZS teastentsi ZS PLUG & FLOA	@ @ 7.>> @ @ @ TOTAI T EQUIPME @ @ @ @ @ @ @ @ @	792.50 275.00 110-00 2636.00 NT 76-28 67.50 220,00
STREET	PUMP TRUCK EXTRA FOOT MILEAGE MANIFOLD	AGE ZS teastentsi ZS PLUG & FLOA	@ @ 7.>> @ @ @ TOTAI T EQUIPME @ @ @ @ @ @ @ @ @	792.50 275.00 110-00 2636.00 NT 76-28 67.50 220,00
STREET	PUMP TRUCK EXTRA FOOT MILEAGE MANIFOLD 20 SS/S J-Rubber F. Ber Bet L-BESKet	AGE ZS teasteness 2S PLUG & FLOA Plug Plug Plug	@ @ 7.>> @ @ @ TOTAI T EQUIPME @ @ @ @ @ @ @ @ @	792.50 275.00 110-00 2636.00 NT 76-28 67.50 220,00
STREET	PUMP TRUCK EXTRA FOOT MILEAGE MANIFOLD	AGE ZS teastenes 2S PLUG & FLOA Plug Plug Plug Plug	@ @ 7.70 @ 4.40 @ @ @ @ @ @ @ @ @ @ @ @ @ @ TOTAI	792.50 275.60 110-00 2636.00 NT 76-25 67.50 220.00 220.00
STREET	PUMP TRUCK EXTRA FOOT MILEAGE MANIFOLD	AGE ZS teastenes 2S PLUG & FLOA Plug Plug Plug Plug	@ @ 7.70 @ 4.40 @ @ @ @ @ @ @ @ @ @ @ @ @ @ TOTAI	792.50 275.60 110-00 2636.00 NT 76-28 67.50 220,00 220,00
STREET	PUMP TRUCK EXTRA FOOT MILEAGE MANIFOLD SALES TAX (1) TOTAL CHAR	AGE ZS Lecs renes DS PLUG & FLOA PLUG & FLOA PLUG & FLOA PLUG & FLOA If Any) AGES /3,	@ @ 7.>> @ 4.40 @ @ @ @ @ @ @ @ @ TOTAI	792.50 275.60 110-00 2636.00 NT 76-28 67.50 220,00
STREET	PUMP TRUCK EXTRA FOOT MILEAGE MANIFOLD SALES TAX (1) TOTAL CHAR	AGE ZS Lecs renes DS PLUG & FLOA PLUG & FLOA PLUG & FLOA PLUG & FLOA If Any) AGES /3,	@ @ 7.>> @ 4.40 @ @ @ @ @ @ @ @ @ TOTAI	792.50 275.60 110-00 2636.00 NT 76-28 67.50 220,00
STREET	PUMP TRUCK EXTRA FOOT MILEAGE MANIFOLD SALES TAX (1) TOTAL CHAR	AGE ZS teastenes 2S PLUG & FLOA Plug Plug Plug Plug	@ @ 7.>> @ 4.40 @ @ @ @ @ @ @ @ @ TOTAI	792.50 275.60 110-00 2636.00 NT 76-28 67.50 220,00

SIGNATURE &

Thenk you!!!

ALLIED CEMENTING CO., LLC. 040107 Federal Tax I.D.# 20-5975804

REMIT TO P.O. B RUSS		ANSAS 676	65			SER	VICE POINT:	e Lodge KS
							2.160.0.1	e coge o
DATE 7-9-13	SEC.	TWP. 345	RANGE 15W	CA	LLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE Z-Bor 22-4	WELL #	2z-4	LOCATION C	Hage Ca	cek+Alena	Rd IGAST	COUNTY Barber	STATE KS
OLD OR NEW (Ci	rcle one)		South in			-		
CONTRACTOR	Hardt	#1	2.		OWNER M	+M Explore	-tion	
		ion Casin	16-		OWNER 74	T-Kpille	TON	······
HOLE SIZE 7	7/8	T.D	5050		CEMENT	12°		
CASING SIZE 5 TUBING SIZE	1/2 #		PTH SDS7	· · ·	AMOUNT O	RDERED 305	x 60:40	: 4% Gel
DRILL PIPE			PTH PTH		ISOSE CLO	155 H + 10 % 94 60 + 1/4 # Flo-	p 10% SAIT	6# 161500)
TOOL			РТН					
PRES. MAX			NIMUM -		COMMON		\$x@_17.70	322,20
MEAS. LINE	LOCC	SH	OE JOINT 42	<u>++</u>	POZMIX _	12	x @ 935	112.20
CEMENT LEFT IN PERFS.	CSG.	425+			GEL		1x@ 23 %	23.40
DISPLACEMENT	120	V4 RP	s Z% KCL	linder	CHLORIDE ASC		@ @	
		UIPMENT		- Warki	Class H	150	tx @ 21,20	3180=
	ĿŲ	ULTMENT			Selt.		x @ 26.35	2/0'8
PUMP TRUCK	CEMEN	TED TAKE	HEARD/De.	15 200	Kolser	900 t	¥@ , 18	882.00
		R Scott P		dfelio	EL-16g	70 *	# @ 18,90	1323.0
BULK TRUCK		- ACTI P	. ocy		Flosed	37 1		109.8
#561/553	DRIVEF	JAMes	Bewen		Capito	12ga	_	412'
BULK TRUCK							@ @	
#	DRIVE	٤			HANDLING	233,38 4	@ 2.48	578.7
					MILEAGE	10 for 25	268	650-0
		EMARKS:	2				TOTA	7745"
	Se	e Job	log					10
2			0			SERV	ICE	v
Bump plug Repressured 3	+lost	didnt ha	bld			<i></i>		7 . 00 2
Pressured up 10	times	Still dine	Lat hold			IOB SOSI +	-1	3099.2
Shut in	uv pas	-per con	yony weg	2	EXTRA FOO	CK CHARGE	@	
					MILEAGE		<u>5 @ 7.70</u>	192.5
	2		÷.,		MANIFOLD	HEAD Rental	@	275.0
				e	light Veh	HEAD Rental	5@ 4.40	110.00
		-					@	
CHARGE TO: 🖊	1+11	Etplorati	٥ŋ 				and the state of t	2/7/5
STREET	-				÷		TOTA	13676
CITY		STATE	ZIP					1.5
			-	~	6	PLUG & FLOA	AT EQUIPME	NT
			(5)	6")~	0	1	Q 48.30	201.
			C	/	8 JURDO	Basket	@ <u></u> @	159.4
To Allied Cemen	ting Co	UC				oat Shoe	@	339.3
You are hereby r			menting equir	iment		un Plug Asymb		398.7
and furnish ceme							@	
contractor to do								1000
done to satisfacti							TOTA	L 12831
contractor. I hav						· · · ·		
TERMS AND CO	ONDITI	IONS" liste	d on the reven	rse side.	SALES TAX	((If Any)		
	.Λ.	1 1 km	1		TOTAL CH	ARGES		
PRINTED NAME	N	m W	war.		DISCOUNT		IF PA	ID IN 30 DAY
	۰Λ	11	+					•••••••••••••••••••••••••••••••••••••••
SIGNATURE	Ve	p-Vh				ж.,	9279.	~
	L`	Ĩ	(A)	<u></u>				
							2.8	
							· · ·	10.00
			di.	21 				

Conservation Division Finney State Office Building 130 S. Market, Rm. 2078 Wichita, KS 67202-3802



Phone: 316-337-6200 Fax: 316-337-6211 http://kcc.ks.gov/

Mark Sievers, Chairman Thomas E. Wright, Commissioner Shari Feist Albrecht, Commissioner Sam Brownback, Governor

October 07, 2013

Michael Austin M & M Exploration, Inc. 4257 MAIN ST., #230 WESTMINSTER, CO 80031

Re: ACO1 API 15-007-24035-00-00 Z Bar 22-4 NW/4 Sec.22-34S-15W Barber County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully, Michael Austin



DRILL STEM TEST REPORT

Prepared For:

M & M Exploration Inc.

4257 Main St., #230 Westminster, CO. 80031

ATTN: Beth Brock

Z-Bar #22-4

22-34s.-15w. Barber Co.

 Start Date:
 2013.07.08 @ 06:53:26

 End Date:
 2013.07.08 @ 17:06:56

 Job Ticket #:
 52338
 DST #: 1

Trilobite Testing, Inc PO Box 362 Hays, KS 67601 ph: 785-625-4778 fax: 785-625-5620

		DRILL STEM TE	S	TREP	ORT				
	RILOBITE	M & M Exploration Inc.			22-	34s15v	v. Ba	rber Co.	
	ESTING , INC.	4257 Main St., #230			Z-E	Bar #22-4	1		
		Westminster, CO. 80031			Job	Ticket: 52	2338	DST	#:1
		ATTN: Beth Brock			Tes	t Start: 20	013.07.	08 @ 06:53:26	6
GENERAL IN	FORMATION:								
Formation: Deviated: Time Tool Opene Time Test Ended		ft (KB)			Tes	ter:		ntional Bottom Reynolds	Hole (Initial)
Interval: Total Depth: Hole Diameter:	4699.00 ft (KB) To 47 4727.00 ft (KB) (T\ 7.88 inchesHole	/D)			Ref	erence Ele KB t	evation	1594.	00 ft (KB) 00 ft (CF) 00 ft
Serial #: 879 Press@RunDept Start Date: Start Time:	th: 92.01 psig 2013.07.08 06:53:31	End Date: End Time:	:	2013.07.08 17:06:56	Capacity Last Cali Time On Time Off	b.: Btm: 2		8000. 2013.07. 7.08 @ 08:41: 7.08 @ 14:16:	26
TEST COMM	ENT: IF: Weak blow . S ISI: No blow FF: Strong blow . FSI: No blow .								
	Pressure vs. T	ime 고 3790 Temperature						JMMARY	
-	In the Hydro-state: End Skitchin (1)	Final Hedrostatic End Sin Fell 2		Time (Min.)	Pressure (psig)	Temp (deg F)	Anr	otation	
2000				0	2335.31	118.30		Hydro-static	
E 4.				4 27	29.11 96.93	117.43 121.12	· ·	To Flow (1)	
1500			0 _	93	2310.69			Shut-In(1)	
e (psig)		\$₹ \$ \$ ₹\$ \$ ₹\$	empera v	94	59.20			To Flow (2)	
L 1000			perature (deg F) vo og	213	92.01	127.19		. ,	
			5	334 335	2340.16 2299.01	127.75 127.38		Shut-In(2) Hydro-static	
	MATER (0) COLTA E								
8 Mon Jul 2013	9AM 12PM Time (Hours)	3PM							
	Recovery				ļ	Ga	l s Rate	es	
Length (ft)	Description	Volume (bbl)				Choke (i		Pressure (psig)	Gas Rate (Mcf/d)
60.00	SLI OCMW 4%oil, 30%m	ud, 66%w tr 0.30		L		- I	Į		ب ـــــــا
60.00	OWCM 25%oil, 25%wtr,	50%mud 0.31							
45.00	OCM 17%oil, 83%mud	0.63							
0.00	370' GIP	0.00							
Trilobite Testi	· .	Ref. No: 52338				D.:	0040	07.10 @ 10:14	

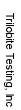
	DRILL STEM TES	ST REP	ORT			
RILOBITE	M & M Exploration Inc.		22-34s1	5w. Bar	ber Co.	
ESTING , INC	4257 Main St., #230		Z-Bar #2	2-4		
	Westminster, CO. 80031		Job Ticket:	52338	DST	#:1
	ATTN: Beth Brock		Test Start:	2013.07.0	08 @ 06:53:2	6
GENERAL INFORMATION:	ł					
Formation:Ft. ScottDeviated:NoWhipstock:Time Tool Opened:08:44:41Time Test Ended:17:06:56	ft (KB)		Test Type: Tester: Unit No:		itional Bottom eynolds	Hole (Initial)
Interval:4699.00 ft (KB) To4Total Depth:4727.00 ft (KB) (Hole Diameter:7.88 inches Hole			Reference k	Elevations	1594	.00 ft (KB) .00 ft (CF) .00 ft
Serial #: 8792OutsidePress@RunDepth:psigStart Date:2013.07.08Start Time:06:48:45	End Date:	2013.07.08 17:09:25	Capacity: Last Calib.: Time On Btm: Time Off Btm:		8000. 2013.07	.00 psig .08
TEST COMMENT: IF: Weak blow . ISI: No blow FF: Strong blow FSI: No blow .	Surf 2" 7. BOB @ 45 min.					
Pressure vs.	Time		PRESS	URE SU	MMARY	
200 572 Presure 000 000 000 000 000 000 000 0	(3) (3) (2) (2) (12)	Time (Min.)	Pressure Tem (psig) (deg		otation	
Recovery			(Gas Rate	es	
Length (ft) Description	Volume (bbl)		Cho	oke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
60.00 SLI OCMW 4%oil, 30%						
60.00 OWCM 25%oil, 25%wt						
45.00 OCM 17%oil, 83%mud						
0.00 370' GIP	0.00					
Trilohite Testing Inc	Ref No: 52338			ed: 2013 0		

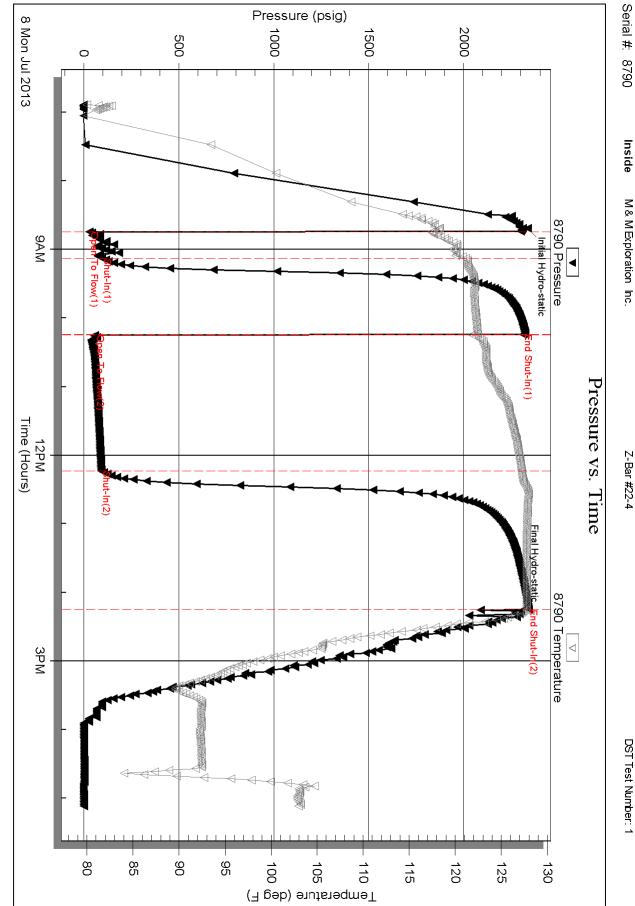
			ואט	LLSI	EMTEST	KEPO	≺ I	TOOL DIAGRA
		BITE T <mark>ING</mark> , INC.	M & M E	Exploration	Inc.		22-34s15w. Barbe	er Co.
	 ES7	TING , INC.	4257 M	lain St., #23	0		Z-Bar #22-4	
			Westmi	nster, CO. 8	30031		Job Ticket: 52338	DST#:1
			ATTN:	Beth Brock	K		Test Start: 2013.07.08	@ 06:53:26
Tool Information	on		ļ					
Drill Pipe:	Length:	4577.00 ft	Diameter:	3.80	inches Volume:	64.20 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:		inches Volume:	0.00 bbl	Weight set on Packe	r: 25000.00 lb
Drill Collar:	Length:	118.00 ft	Diameter:	2.25	inches Volume:	0.58 bbl	Weight to Pull Loose	110000.0 lb
		04 00 44			Total Volume:	64.78 bbl	Tool Chased	0.00 ft
Drill Pipe Above I Depth to Top Pac		24.00 ft 4699.00 ft					String Weight: Initial	74000.00 lb
Depth to Top Pac		4699.00 ft					Final	75000.00 lb
Interval between		28.00 ft						
Tool Length:	I Fackers.	28.00 ft						
Number of Packe	ore.	30.00 m	Diameter:	6 75	inches			
Tool Comments:		2	Diameter.	0.75	incries			
Tool Descripti	on	Lei	ngth (ft)	Serial No	. Position	Depth (ft)	Accum. Lengths	
•	on	Lei	ngth (ft) 5.00	Serial No	. Position	Depth (ft) 4676.00	Accum. Lengths	
Shut In Tool	on	Lei	• • •	Serial No	. Position	• • •	Accum. Lengths	
Shut In Tool Sampler	on	Lei	5.00	Serial No	. Position	4676.00	Accum. Lengths	
Shut In Tool Sampler Hydraulic tool	on	Lei	5.00 2.00	Serial No	. Position	4676.00 4678.00	Accum. Lengths	
Shut In Tool Sampler Hydraulic tool Jars	on	Lei	5.00 2.00 5.00	Serial No	. Position	4676.00 4678.00 4683.00	Accum. Lengths	
Shut In Tool Sampler Hydraulic tool Jars Safety Joint	on	Lei	5.00 2.00 5.00 5.00	Serial No	. Position	4676.00 4678.00 4683.00 4688.00	Accum. Lengths	Bottom Of Top Packe
Shut In Tool Sampler Hydraulic tool Jars Safety Joint Packer	on	Lei	5.00 2.00 5.00 5.00 2.00	Serial No	. Position	4676.00 4678.00 4683.00 4688.00 4690.00	_	Bottom Of Top Packe
Shut In Tool Sampler Hydraulic tool Jars Safety Joint Packer Packer	on	Lei	5.00 2.00 5.00 5.00 2.00 5.00 5.00	Serial No	. Position	4676.00 4678.00 4683.00 4688.00 4690.00 4695.00	_	Bottom Of Top Packe
Shut In Tool Sampler Hydraulic tool Jars Safety Joint Packer Packer Stubb	on	Lei	5.00 2.00 5.00 5.00 2.00 5.00 4.00	Serial No 8790		4676.00 4678.00 4683.00 4688.00 4690.00 4695.00 4699.00	_	Bottom Of Top Packe
Shut In Tool Sampler Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder	on	Lei	5.00 2.00 5.00 5.00 2.00 5.00 4.00 1.00		Inside	4676.00 4678.00 4683.00 4688.00 4690.00 4695.00 4699.00 4700.00	_	Bottom Of Top Packe
Shut In Tool Sampler Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder Recorder	on	Lei	5.00 2.00 5.00 5.00 2.00 5.00 4.00 1.00 0.00	8790	Inside	4676.00 4678.00 4683.00 4688.00 4690.00 4695.00 4699.00 4700.00 4700.00	_	Bottom Of Top Packe
Tool Description Shut In Tool Sampler Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder Recorder Perforations Bullnose	on	Lei	5.00 2.00 5.00 5.00 2.00 5.00 4.00 1.00 0.00 0.00	8790	Inside	4676.00 4678.00 4683.00 4688.00 4690.00 4695.00 4699.00 4700.00 4700.00 4700.00	28.00	Bottom Of Top Packe

E IG , INC. 4257 I Westri	ILL STEM TEST REPO Exploration Inc. Main St., #230 ninster, CO. 80031 Beth Brock Cushion Type: Cushion Length: Cushion Volume: Gas Cushion Volume: Gas Cushion Type: Gas Cushion Pressure: Recovery Table Description SLI OCMW 4%oil, 30%mud, 66%w tr OWCM 25%oil, 25%w tr, 50%mud OCM 17%oil, 83%mud	22-34s15 Z-Bar #22- Job Ticket: 5 Test Start: 2	w. Barber Co 4 52338 2013.07.08 @ 06: Oil API: Water Salinity:	DST#:1
Westri ATTN: mation gal c/qt m.m m hes Length ft 60.00 60.00 45.00	Main St., #230 ninster, CO. 80031 Beth Brock Cushion Type: Cushion Length: Cushion Volume: Gas Cushion Type: Gas Cushion Pressure: Recovery Table Description SLI OCMW 4%oil, 30%mud, 66%w tr OWCM 25%oil, 25%w tr, 50%mud	Z-Bar #22- Job Ticket: 5 Test Start: 2 ft bbl psig Volume bbl	-4 22338 2013.07.08 @ 06: Oil A PI: Water Salinity:	DST#: 1 53:26 deg API
Westri ATTN: mation gal c/qt m.m m hes Length ft 60.00 60.00 45.00	ninster, CO. 80031 Beth Brock Cushion Type: Cushion Length: Cushion Volume: Gas Cushion Type: Gas Cushion Pressure: Recovery Table Description SLI OCMW 4%oil, 30%mud, 66%w tr OWCM 25%oil, 25%w tr, 50%mud	Job Ticket: 5 Test Start: 2 ft bbl psig Volume bbl 0.295	2338 2013.07.08 @ 06: Oil API: Water Salinity:	53:26 deg API
Westri ATTN: mation gal c/qt m.m m hes Length ft 60.00 60.00 45.00	ninster, CO. 80031 Beth Brock Cushion Type: Cushion Length: Cushion Volume: Gas Cushion Type: Gas Cushion Pressure: Recovery Table Description SLI OCMW 4%oil, 30%mud, 66%w tr OWCM 25%oil, 25%w tr, 50%mud	Job Ticket: 5 Test Start: 2 ft bbl psig Volume bbl 0.295	2338 2013.07.08 @ 06: Oil API: Water Salinity:	53:26 deg API
ATTN: mation gal c/qt m.m m hes Length ft 60.00 60.00 45.00	Beth Brock Cushion Type: Cushion Length: Cushion Volume: Gas Cushion Type: Gas Cushion Pressure: Becovery Table Description SLI OCMW 4%oil, 30%mud, 66%w tr OWCM 25%oil, 25%w tr, 50%mud	Test Start: 2 ft bbl psig Volume bbl 0.295	2013.07.08 @ 06: Oil API: Water Salinity:	53:26 deg API
mation gal c/qt m.m m hes Length ft 60.00 60.00 45.00	Cushion Type: Cushion Length: Cushion Volume: Gas Cushion Type: Gas Cushion Pressure: Recovery Table Description SLI OCMW 4%oil, 30%mud, 66%w tr OWCM 25%oil, 25%w tr, 50%mud	ft bbl psig Volume bbl 0.295	Oil API: Water Salinity:	deg API
gal c/qt m.m m hes Length ft 60.00 60.00 45.00	Cushion Length: Cushion Volume: Gas Cushion Type: Gas Cushion Pressure: Recovery Table Description SLI OCMW 4%oil, 30%mud, 66%w tr OWCM 25%oil, 25%w tr, 50%mud	ft bbl psig Volume bbl 0.295	Water Salinity:	-
c/qt m.m hes Length ft 60.00 60.00 45.00	Cushion Length: Cushion Volume: Gas Cushion Type: Gas Cushion Pressure: Recovery Table Description SLI OCMW 4%oil, 30%mud, 66%w tr OWCM 25%oil, 25%w tr, 50%mud	ft bbl psig Volume bbl 0.295	Water Salinity:	-
c/qt m.m hes Length ft 60.00 60.00 45.00	Cushion Volume: Gas Cushion Type: Gas Cushion Pressure: Recovery Table Description SLI OCMW 4%oil, 30%mud, 66%w tr OWCM 25%oil, 25%w tr, 50%mud	bbl psig Volume bbl 0.295]	225000 ppm
n.m n hes Length ft 60.00 60.00 45.00	Gas Cushion Type: Gas Cushion Pressure: Recovery Table Description SLI OCMW 4%oil, 30%mud, 66%w tr OWCM 25%oil, 25%w tr, 50%mud	psig Volume bbl 0.295	5	
m hes Length ft 60.00 60.00 45.00	Gas Cushion Pressure: Recovery Table Description SLI OCMW 4%oil, 30%mud, 66%w tr OWCM 25%oil, 25%w tr, 50%mud	Volume bbl 0.295	5	
m hes Length ft 60.00 60.00 45.00	Recovery Table Description SLI OCMW 4%oil, 30%mud, 66%w tr OWCM 25%oil, 25%w tr, 50%mud	Volume bbl 0.295	5	
hes Length ft 60.00 60.00 45.00	Description SLI OCMW 4%oil, 30%mud, 66%w tr OWCM 25%oil, 25%w tr, 50%mud	bbl 0.295	5	
Length ft 60.00 60.00 45.00	Description SLI OCMW 4%oil, 30%mud, 66%w tr OWCM 25%oil, 25%w tr, 50%mud	bbl 0.295	5	
ft 60.00 60.00 45.00	Description SLI OCMW 4%oil, 30%mud, 66%w tr OWCM 25%oil, 25%w tr, 50%mud	bbl 0.295	5	
ft 60.00 60.00 45.00	Description SLI OCMW 4%oil, 30%mud, 66%w tr OWCM 25%oil, 25%w tr, 50%mud	bbl 0.295	5	
ft 60.00 60.00 45.00	SLI OCMW 4%oil, 30%mud, 66%w tr OWCM 25%oil, 25%w tr, 50%mud	bbl 0.295	5	
60.00 45.00	OWCM 25%oil, 25%w tr, 50%mud		5	
45.00		0.313	7	
	OCIVI 17%011, 83%MUd	0.004		
0.00		0.631	-	
	370' GIP 5.00 ft Total Volume: 1.239	0.000	끄	
Fluid Samples: 0 ratory Name: very Comments:	Num Gas Bombs: 0 Laboratory Location:	Serial #	: none	
F	-	Fluid Samples: 0 Num Gas Bombs: 0 ratory Name: Laboratory Location:	Fluid Samples: 0Num Gas Bombs: 0Serial #ratory Name:Laboratory Location:	Fluid Samples: 0Num Gas Bombs: 0Serial #: noneratory Name:Laboratory Location:

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Ref. No: 52338



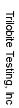


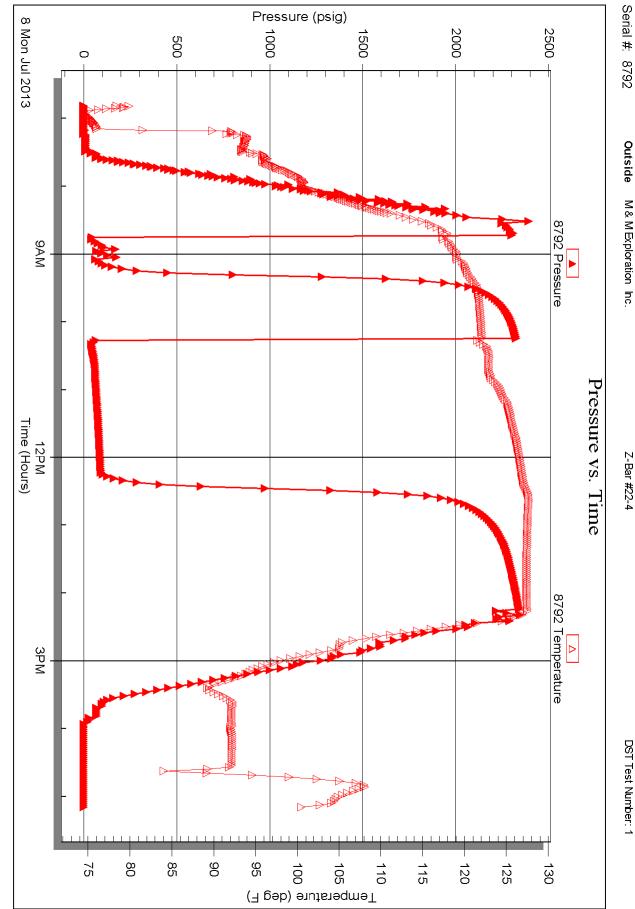
Z-Bar #22-4

DST Test Number: 1

Printed: 2013.07.10 @ 10:14:32

Ref. No: 52338





Z-Bar #22-4

DST Test Number: 1

Outside M & M Exploration Inc.

4/10 TRILOBITE JESTING // 1515 Commerce Park	VC. way ∙ Hays, Kansas 67601	Test Ticket NO. 52338
Well Name & No. Z - Ber Company M & M Expl., - Address 4257 Main St., Co. Rep / Geo. Beth Brock Location: Sec. 22 Twp. 345 Interval Tested 4699-472	Inc. Elevation #230 Westminsteg Rig Hour 	1604 кв_1594 GL С. 80031 dt #1
Interval Tested 1011-972 Anchor Length 23 Top Packer Depth 469 Bottom Packer Depth 469 Total Depth 472 Blow Description IF: Weak plan	8 Drill Pipe Run 457 4 Drill Collars Run 11 9 Wt. Pipe Run 9 27 Chlorides 2800 p	8 Vis <u>49</u> 5 WL <u>9,8</u>
FF: Strong blow, BOP FST: No Blow Rec 370 Feet of GIP Rec 45 Feet of OCM Rec 60 Feet of DWCM	3 C. 45min 100 %gas %gas %gas 2	%oil%water%mud17%oil%water8325%oil25%water50
Rec Image: Color Feet of Image: Color <	SMW %gas	4 %oil (∂() %water 30 %mud %oil %water %mud @ 105°F Chlorides 22,5∞∞ ppm
(A) Initial Hydrostatic23.35(B) First Initial Flow29(C) First Final Flow97(D) Initial Shut-In2311(E) Second Initial Flow59(F) Second Final Flow92	Test 1250 Jars 250 Jars 250 Safety Joint 75 Circ Sub Hourly Standby 1/4 12 Mileage 120 186	T-On Location <u>0545</u> T-Started <u>0653</u> T-Open <u>0845</u> T-Pulled <u>1415</u> T-Out 1707
(G) Final Shut-In 2340 (H) Final Hydrostatic 2299 Initial Open 30 Initial Shut-In 60 Final Flow 120	 Sampler Do Not charge Straddle Shale Packer Extra Packer Extra Recorder Dan Oberding 	 Ruined Shale Packer Ruined Packer Ruined Packer Extra Copies Sub Total
Final Shut-In 120 Approved By Bell Brock		MP/DST Disc't

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.