

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1105935

Form ACO-1 June 2009 Form Must Be Typed Form must be Signed All blanks must be Filled

WELL COMPLETION FORM

WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #	API No. 15
Name:	Spot Description:
Address 1:	
Address 2:	Feet from North / South Line of Section
City: State: Zip:+	Feet from East / West Line of Section
Contact Person:	
Phone: ()	
CONTRACTOR: License #	
Name:	
Wellsite Geologist:	
Purchaser:	
Designate Type of Completion:	Elevation: Ground: Kelly Bushing:
New Well Re-Entry Workover	Total Depth: Plug Back Total Depth:
Gas D&A ENHR SIGW	Multiple Stage Cementing Collar Used? Yes No
	Abd. If yes, show depth set: Feet
CM (Coal Bed Methane) Cathodic Other (Core, Expl., etc.):	If Alternate II completion, cement circulated from:
	feet depth to:w/sx cmt.
If Workover/Re-entry: Old Well Info as follows:	
Operator:	Drilling Fluid Management Plan
Well Name:	(Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth:	Chloride content: ppm Fluid volume: bbls
Deepening Re-perf. Conv. to ENHR Conv.	to SWD Dewatering method used:
Conv. to GSW	
Plug Back: Plug Back Total Depth	
Commingled Permit #:	Operator Name:
Dual Completion Permit #:	Lease Name: License #:
SWD Permit #:	Quarter Sec Two S R East West
ENHR Permit #:	Dermit #:
GSW Permit #:	County Permit #
Spud Date or Recompletion Date Date Reached TD Completion Date	

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						
Letter of Confidentiality Received						
Date:						
Confidential Release Date:						
Wireline Log Received						
Geologist Report Received						
UIC Distribution						
ALT I II Approved by: Date:						

	Side Two	1105935
Operator Name:	Lease Name:	Well #:
Sec TwpS. R East _ West	County:	

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken (Attach Additional She	eets)	Yes No)	☐ Log Name	Formatior	n (Top), Depth an		Sample
Samples Sent to Geolog	gical Survey	Yes No)	Name			Тор	Datum
Cores Taken Electric Log Run Electric Log Submitted B (If no, Submit Copy)	Electronically	Yes No Yes No Yes No	>					
List All E. Logs Run:								
		CAS	ING RECORD	New	Used			
		Report all strings	set-conductor, surfa	ace, interm	nediate, productio	on, etc.		
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / F		Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD

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

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated					e			ement Squeeze Record of Material Used)	Depth
TUBING RECORD:	Siz	ze:	Set At:		Packe	r At:	Liner R	un:	No	
Date of First, Resumed	Product	ion, SWD or ENHF	ł.	Producing M	lethod:	ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	s.	Gas	Mcf	Wate	er	Bbls.	Gas-Oil Ratio	Gravity
DISPOSITIO	ON OF (BAS:			METHOD	OF COMPLE	TION:		PRODUCTION INT	ERVAL:
Vented Sold		Jsed on Lease		Open Hole	Perf.	Uually (Submit /	Comp. ACO-5)	Commingled (Submit ACO-4)		
(If vented, Sul	bmit ACC)-18.)		Other (Specify)						<u></u>

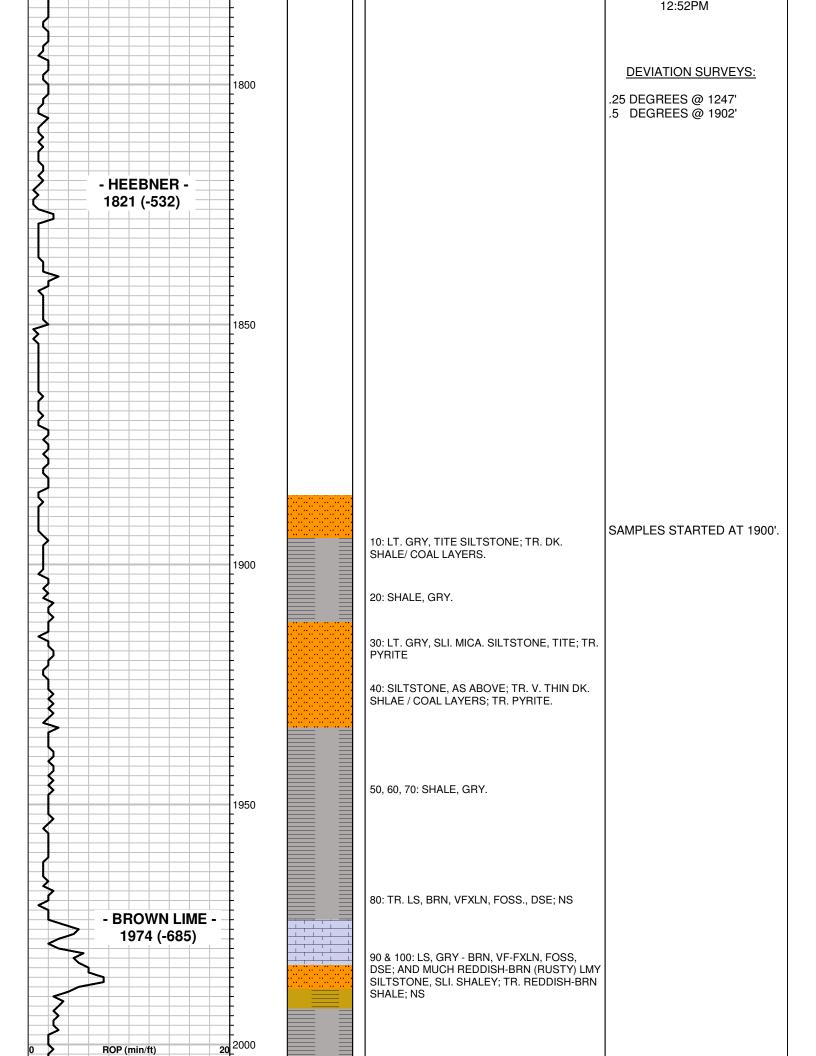
Form	ACO1 - Well Completion
Operator	BOP West, LLC
Well Name	M. Redden 21-2
Doc ID	1105935

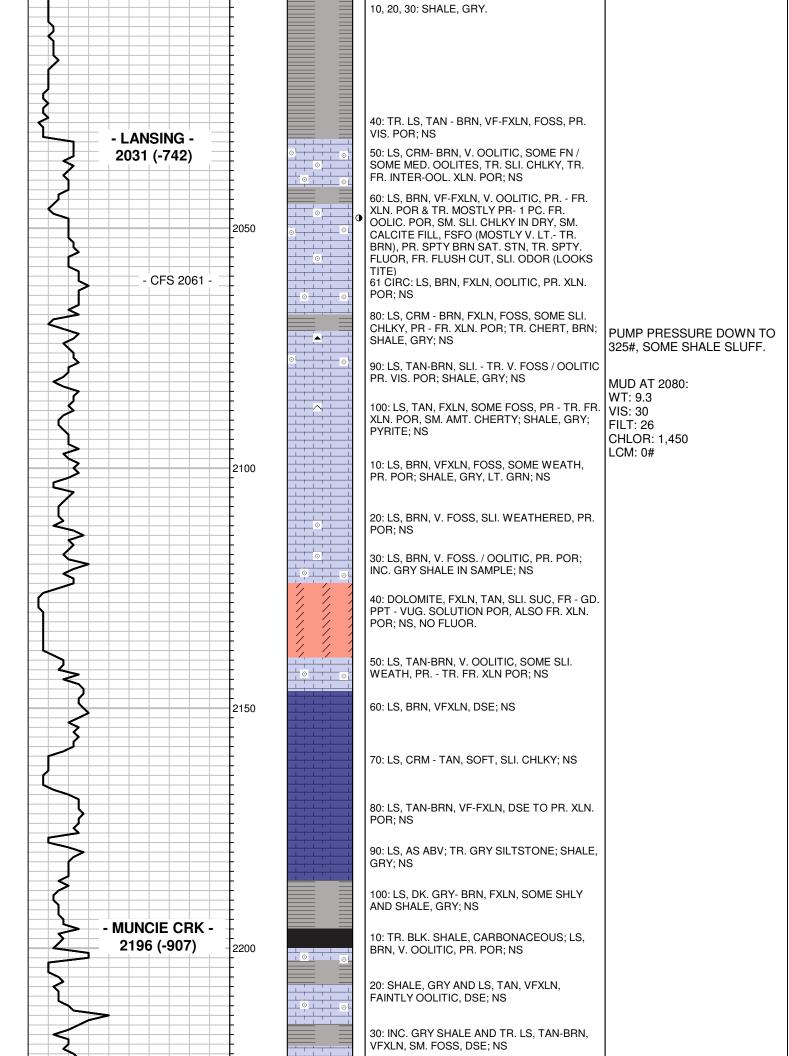
Tops

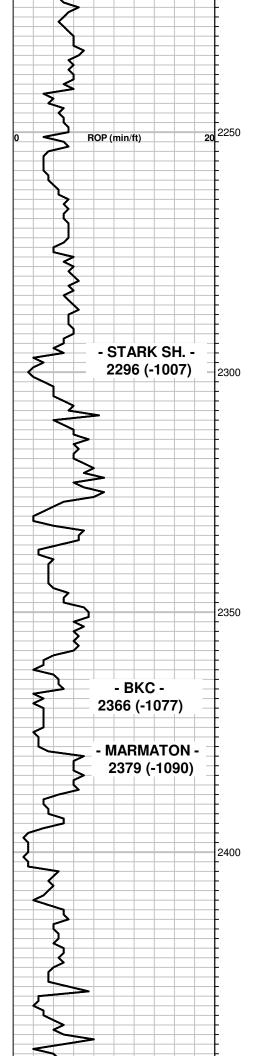
Name	Тор	Datum	
Heebner	1821	-532	
Brown Lime	1974	-685	
Lansing	2031	-742	
Muncie Creek Shale	2196	-907	
Stark Shale	2296	-1007	
ВКС	2366	-1077	
Marmaton	2379	-1090	
Cherokee	2545	-1256	
Mississippian	2656	-1367	

	Company: Address: Contact Geologist: Contact Phone Nbr: Well Name: Location: Pool: State:	OP BOP WEST, LLC P.O. BOX 129 WOOSTER, OHIC 330-264-8847 M. REDDEN # 21 330 FNL, 1390 FV DRY AND ABAND KANSAS	-2 VL, SEC21-T16S	-R1WAPI: Field: Country:	HUNTER
		Scale 1	:240 Imperial		
	Well Name: Surface Location: Bottom Location: API:	M. REDDEN # 21- 330 FNL, 1390 FV 15-169-20343-00-	-2 VL, SEC21-T16S	S-R1W	
	License Number: Spud Date: Region:	34439 10/18/2012	00	Time:	7:00 AM
	Drilling Completed: Surface Coordinates: om Hole Coordinates:	10/22/2012 Y = 116453 & X =	2159665	Time:	12:52 PM
	Ground Elevation: K.B. Elevation: Logged Interval: Total Depth: Formation: Drilling Fluid Type:	1280.00ft 1289.00ft 1750.00ft 2680.00ft MISSISSIPPIAN CHEMICAL		To:	2680.00ft
		SURFACE	CO-ORDINATES	6	
	Well Type: Longitude: N/S Co-ord: E/W Co-ord:	Vertical Y = 116453 X = 2159665		Latitude:	
		CASIN	G SUMMARY		
Bit Size Hole Size	Surface 12.25 in 12.25 in	Intermediate	Main		
Surf Casing Int Casing Prod Casing	Size 8.625 in	Set At 219 ft	Туре 24#	# of Joint	ts Drilled Out At 10/18/2012 9:40 PM
		CASING	SEQUENCE		
Type SURFACE		Hole Size 12.25 in	Casing Size 8.63	At 219.00 f	t
			TRACTOR		
	Contractor: Rig #:	C + G DRILLING 2	CO.		
	Rig Type: Spud Date: TD Date: Rig Release:	DOUBLE PORTA 10/18/2012 10/22/2012	BLE	Time: Time: Time:	7:00 AM 12:52 PM
		LO	GGED BY		
	Company: Address:	LARRY P. FRIENI 1639 BURNS ST. WICHITA, KS 672			
	Phone Nbr:	316-265-2228			

Logged	d By: Geologist	Name:						
FORMATION DEPTHS: SAMPLE COMPARISON TO: BOP WEST, LLC, 1 MAX REDDEN 530 FSL, 1170 FWL, 21-T16S-R1W								
HEEBNER BROWN LIME LANSING MUNCIE CREEK SH. STARK SHALE BKC MARMATON CHEROKEE MISSISSIPPIAN	1821 (-532) 1974 (-685) 2031 (-742) 2196 (-907) 2296 (-1007) 2366 (-1077) 2379 (-1090) 2545 (-1256) 2656 (-1367)	-11 -8 -14 -12 -15 -14 -15 -7 -31						
DUE TO THE LACK OF DC AND A POOR STRUCTUR RESPECTFULLY SUBMITT LARRY P. FRIEND	AL POSITION, IT WA	NOTES VS IN THE MISS, A LACK OF ANY OTH AS DECIDED TO PLUG AND ABANDON	ER POSITIVE OIL SHOWS THIS TEST.					
Coal Dolsec	Lmst fw<7 Lmst fw7> Ss	ROCK TYPES Shgy Shblck Shcol						
MINERAL FOSSIL - Argillaceous ○ Oolites ▲ Chert, dark ○ Dolomitic → Sandy > Siliceous • Sility ○		ACCESSORIES						
OIL SHOWS • Even Stn • Spotted Stn 50 - 75 % • Spotted Stn 25 - 50 % • Spotted Stn 1 - 25 % • Questionable Stn • Dead Oil Stn • Fluorescence	0.	THER SYMBOLS						
Curve Track #01		Printed by GEOstrip VC	Striplog version 4.0.7.0 (www.grsi.ca)					
ROP (min/ft)		Geological Descriptions	Comment					
	750		<u>7:00AM DEPTHS:</u> 10/17/12: MOVING IN. 10/18/12: SPUD @ 7:00AM, RUN SURFACE, DRILL OUT 9:40PM 10/19/12: 1090' 10/20/12: 2025' 10/21/12: 2335' 10/22/12: 2598'; RTD 2680 @					



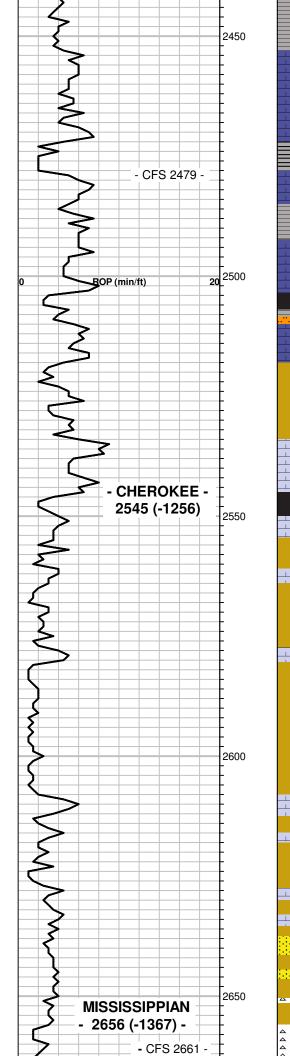




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40: TR. LS, TAN-BRN, VFXLN, TR. FOSS, DSE; MOSTLY GRY SHALE IN SAMPLE; NS 50: LS, BRN, FXLN, V. FOSS, PR- TR. FR. XLN. POR; SHALE, GRY; NS	PUMP PRESSURE 400# CARRYING MUCH GRY SHALE SLUFF IN SAMPLES
60: LS, BRN, VFXLN, DSE; NS	
70: LS, AS ABV TO SOME CRM, WEATHERED, SLI. CHLKY; TR. LS, GRY, V. FOSS, CALCITIC, PR. VIS. POR; NS	
80 & 90: LS, BRN, VFXLN, SLI. CALCITIC, DSE TO LIT. CRM, WEATHERED, SLI. CHLKY; TR. CHERT, BRN; NS	SAMPLES 50% GRY SHALE SLUFF.
100 & 10: LS, AS ABOVE; NS	
20: SHALE, BLK, CARBONACEOUS; LS, CRM - TAN, VF-FXLN, SM. SLI. WEATH, SLI. CHLKY, PR - FR. XLN. POR; NS	SAMPLES GOOD
30: LS, BRN, VF-FXLN, SLI. CALCITIC, DSE; NS	
40: SHALE, BLK; LS, BRN, VFXLN, DSE; TR. PYRITE; NS	PUMP PRESSURE 350#.
50: LS, TAN, FXLN, SLI. SUCROSIC (SLI. DOLOMITIC?) W/ PR - FR. XLN. POR; TR. CHERT, TAN; NS	
70: LS, TAN-BRN, VFXLN, V. SLI. FOSS, DSE; NS	BIT TRIP AT 2358' AND WORK ON MUD PUMP. PUMP
80: SHALE, GRY & LT. GREEN; TR. PYRITE.	PRESSURE BACK TO 450# NO PIPE STRAP.
90 & 100: LS, BRN - DK. BRN, VFXLN, SLI. FOSS, DSE; NS	MUD AT 2358: WT: 9.4 VIS: 40 FILT: 19+ CHLOR: 1,300
10: SHALE, GRY & GRN; NS	
20: GRY LS, SILTY, SHLY; TR. SILTSTN, LMY, MICA; SHALE, GRY.	
30: LS, GRY, SHLY, SLI. SILTY; TR. LMY. SILTSTN; SHALE, GRY	
40: SST, WH, VF-MED, CLR - FROST. GRNS, SBANG, PR, SORT, MOSTLY TITELY CEM W/ LMY CEM, TR. FR. INTERGRAN. POR, 5-7% W/ FSFO, SPTY BRN. SAT. STN, NO FLUOR OR FLUSH CUT BUT GD CRUSH CUT, NO ODOR.	
50: LS, TAN-BRN, VFXLN, FOSS, DSE - PR.	





	CFS 2667 -	-		TR. SLI. WEATH		CHLOR: 1,100 LCM: 2#
	CFS 2680 -	- - - -	SHARP,	CIRC: CHERT, CL SOME SLI. WEA Z. GRNS; NS	N, CRM - TAN, TH, NO VIS. POR; SLI.	80: 35" CIRC: INC. LT. GRY - LT. TAN OPAQUE CHERT, SHARP; NS
		-				
Image: Section of the sectio		2700				
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CC	ONSOLIDATED	\cup			TICKET NUME		622
	Di Well Bervices, LLC				LOCATION E		
					FOREMAN_R	cx ledford	A REAL PROPERTY OF THE OWNER OF T
	tellimine intelling	IELD TICKET &			PORT 15-169-2034	2	
	or 800-467-8676	VELL NAME & NUMBER	CEMENT	SECTION	TOWNSHIP	RANGE	COUNTY
		Martin Construction of the	Statement of the second statement				
JSTOMER	1754 M. R.	-dden 21-2		21	165		Saline
60	P West LLC		16 Drig -	TRUCK #	DRIVER	TRUCK #	DRIVER
AILING ADDRE			s = 2 -	520	John		
P.O.	Box 129 ISTATE	ZIP CODE		479	Merle		
			-			+	
	oster OH	44691		Diel		UTIONE OFLY	<u> </u>
B TYPE			OLE DEPTH	<u></u>	CASING SIZE & V	OTHER	
URRY WEIGH		TU DL <u>34 851</u> W/		15	CEMENT LEFT IN		
		AENT PSI 100 MI			RATE		Language (Therease - 4 - 1983
	afety meeting. Ris				Contract of the local data in	IA ALL	oter.
Alizand 1	140 5KS class A 0	1 30 C	Caralas. 20	Dicak CI	+ Cluste las (2 150 / a.)	Disslare
1 17 4	Bol weter Shut case	Contract and a start	server at	a jel - 1		1 11	
	tt. Biz dawn.						
	QUANITY or UNITS	DESCF	RIPTION of SE	ERVICES or PF	RODUCT	UNIT PRICE	TOTAL
CODE		DESCR PUMP CHARGE	RIPTION of SE	ERVICES or PF	RODUCT		TOTAL 725.00
CODE 54015			RIPTION of SE	RVICES or PF	RODUCT	UNIT PRICE 825.60 4.00	
CODE 54015	QUANITY or UNITS	PUMP CHARGE	RIPTION of SE	ERVICES or PF	RODUCT	825.00 4.00	725.00
CODE 54013 5406	QUANITY or UNITS	PUMP CHARGE MILEAGE C. 1935 A. CEO		ERVICES or PF	RODUCT	825.60 4.00 14.95	925.00 400.00 2093.00
54013 5406 11045 1102	QUANITY or UNITS / /00 /40 5x5 375*	PUMP CHARGE MILEAGE Class A ceo 370 COLL2	ment.	ERVICES or PF	RODUĆT	825.00 4.00	925.00 400.00 2093.00 292.30
CODE 54015 54015 5406 11045 11045 1118B	QUANITY or UNITS / //00 //40 5#3 375# 264 #	PUMP CHARGE MILEAGE Class A ceo 390 cache 294 gel	nen t.	RVICES or PF	RODUCT	825.60 4.00 14.95 .74 .21	925.00 400.00 2093.00 292.30 55.44
CODE 54013 5406 11043 11043	QUANITY or UNITS / /00 /40 5x5 375*	PUMP CHARGE MILEAGE Class A ceo 370 COLL2	nen t.	ERVICES or PF	RODUĆT	825.00 4.00 14.95 .74	925.00 400.00 2093.00 292.30
CODE 54013 54013 5406 11045 1102 1118 <u>B</u> 1107	QUANITY or UNITS / ///0 ///0 ///0 ///0 ///0 ///0 ///0	PUMP CHARGE MILEAGE C/935 A CEA 390 CALL2 2920 CAL2 2920 CAL2			CODUCT	825.60 4.00 14.95 .74 .21 2.35	925.00 400.00 2093.00 292.30 55.44 82.25
CODE 54015 54015 5406 11045 11045 1118B	QUANITY or UNITS / //00 //40 5#3 375# 264 #	PUMP CHARGE MILEAGE Class A ceo 390 cache 294 gel			CODUCT	825.60 4.00 14.95 .74 .21	925.00 400.00 2093.00 292.30 55.44
CODE 54013 54013 5406 11045 1102 1118 <u>B</u> 1107	QUANITY or UNITS / ///0 ///0 ///0 ///0 ///0 ///0 ///0	PUMP CHARGE MILEAGE C/935 A CEA 390 CALL2 2920 CAL2 2920 CAL2			CODUCT	825.60 4.00 14.95 .74 .21 2.35	925.00 400.00 2093.00 292.30 55.44 82.25
CODE 54013 54013 5406 11045 1102 11188 1107	QUANITY or UNITS / ///0 ///0 ///0 ///0 ///0 ///0 ///0	PUMP CHARGE MILEAGE C/935 A CEA 390 CALL2 2920 CAL2 2920 CAL2			CODUCT	825.60 4.00 14.95 .74 .21 2.35	925.00 400.00 2093.00 292.30 55.44 82.25
CODE 54013 54013 5406 11045 1102 11188 1107	QUANITY or UNITS / ///0 ///0 ///0 ///0 ///0 ///0 ///0	PUMP CHARGE MILEAGE C/935 A CEA 390 CALL2 2920 CAL2 2920 CAL2			RODUCT	825.60 4.00 14.95 .74 .21 2.35	925.00 400.00 2093.00 292.30 55.44 82.25
CODE 54015 54015 5406 11045 1102 11188 1107	QUANITY or UNITS / ///0 ///0 ///0 ///0 ///0 ///0 ///0	PUMP CHARGE MILEAGE C/935 A CEA 390 CALL2 2920 CAL2 2920 CAL2			CODUCT	825.60 4.00 14.95 .74 .21 2.35	925.00 400.00 2093.00 292.30 55.44 82.25
CODE 54013 54013 5406 11045 1102 1118 <u>B</u> 1107	QUANITY or UNITS / ///0 ///0 ///0 ///0 ///0 ///0 ///0	PUMP CHARGE MILEAGE C/935 A CEA 390 CALL2 2920 CAL2 2920 CAL2				825.60 4.00 14.95 .74 .21 2.35	925.00 400.00 2093.00 292.30 55.44 82.25
CODE 54015 54015 5406 11045 1102 1118B 1107	QUANITY or UNITS / ///0 ///0 ///0 ///0 ///0 ///0 ///0	PUMP CHARGE MILEAGE C/935 A CEA 390 CALL2 2920 CAL2 2920 CAL2			CODUCT	825.60 4.00 14.95 .74 .21 2.35	925.00 400.00 2093.00 292.30 55.44 82.25
CODE 54013 54013 5406 11045 1102 1118 <u>B</u> 1107	QUANITY or UNITS / ///0 ///0 ///0 ///0 ///0 ///0 ///0	PUMP CHARGE MILEAGE C/935 A CEA 390 CALL2 2920 CAL2 2920 CAL2				825.60 4.00 14.95 .74 .21 2.35	925.00 400.00 2093.00 292.30 55.44 82.25 927.28
CODE 54013 54013 5406 11045 1102 11188 1107	QUANITY or UNITS / ///0 ///0 ///0 ///0 ///0 ///0 ///0	PUMP CHARGE MILEAGE C/935 A CEA 390 CALL2 2920 CAL2 2920 CAL2				825.60 4.00 14.95 .74 .21 2.35	925.00 400.00 2093.00 292.30 55.44 82.25
CODE 54015 54015 5406 11045 1102 1118B 1107	QUANITY or UNITS / ///0 ///0 ///0 ///0 ///0 ///0 ///0	PUMP CHARGE MILEAGE C/935 A CEA 390 CALL2 2920 CAL2 2920 CAL2			RODUCT	825.60 4.00 14.95 .74 .21 2.35 1.34	925.00 400.00 2093.00 292.30 55.44 82.25 927.28

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this for

CONSOLIDATED

Oli Well Services, LLC

6205835679

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TICKET	NUMBER.

LOCATION EURERA FOREMAN NEUN Mecon

PO Box 884, Chanuta, KS 66720

FIELD TICKET & TREATMENT REPO

620-431-9210 or 800-467-8676			CEMENT API 15- 169- 20343				- 55-	
DATE	CUSTOMER #	WE	LL NAME & NUM	1BER			RANGE	COUNTY
10-22-12	1754	M. Be	dden 21.	2	21	165	14	Saline
CUSTOMER BOP West LLC			CdG	TRUCK #	DRIVER	TRUCK #	DRIVER	
MAILING ADDRESS			DR19.	445	GAIN H			
P.O. Box 129			Rigz	611	Jocy K			
CITY		STATE	ZIP CODE					and the second second second second
Wooste	R	OH	44691					
JOB TYPE P.7	T.A.	HOLE SIZE	71/8	HOLE DEPT	H 2680' KU	CASING SIZE &	WEIGHT	
CASING DEPTH DRILL PIPE			TUBING			OTHER		
			WATER gal/	I/skCEMENT LEFT in CASING				
DISPLACEMENT DISPLACEMENT PSI								
REMARKS: 5	gfety Meet,	Ma: Rig up	e to 41/2 i	DRILL PIPE	Spot Ceme	nt Plugs A	5 Following	9
		35	SKS @ 26	9				
		35	SKT @ 6	0				
manual all the second second		25	SAS R.H.			the second s		
		20	SKS M.H					

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5405 N	1	PUMP CHARGE	1030.00	1030.00
5406	100	MILEAGE	4.00	400.00
/13/	115 SK5	60/40 Pozmix Cement	12.55	1443.25
1118 B	400	Gel 4%	. 21 *	84.00
5407 A	4.95 Toms	100 miles Buck Delu.	1.34	663.30
* ****				
-			Sub Total	3620.55
		THANK YOUR 7.3%		111.49
avin 3737	NECIE		ESTIMATED TOTAL	3732.04

AUTHORIZTION Unte (aller TITLE C&G Daly Toolpushe DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form