

Confidentiality Requested:

Yes No

Kansas Corporation Commission Oil & Gas Conservation Division

1231226

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

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

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

AFFIDAVIT

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

Submitted Electronically

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

Page Two



Operator Name: Lease Name: _ _ Well #: _ 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 Taken** No Loa Formation (Top), Depth and Datum Sample | Yes (Attach Additional Sheets) Name Top Datum No Samples Sent to Geological Survey Yes ☐ No Yes
 Yes
 ■
 Yes
 ■
 Yes
 ■
 Nes
 Nes Cores Taken Electric Log Run ___ Yes No List All E. Logs Run: CASING RECORD New Used Report all strings set-conductor, surface, intermediate, production, etc. Size Hole Size Casing Weight Setting Type of # Sacks Type and Percent Purpose of String Drilled Set (In O.D.) Lbs. / Ft. Depth Cement Used Additives ADDITIONAL CEMENTING / SQUEEZE RECORD Purpose: Depth Type of Cement # Sacks Used Type and Percent Additives Top Bottom Perforate **Protect Casing** Plug Back TD Plug Off Zone Did you perform a hydraulic fracturing treatment on this well? Yes No (If No, skip questions 2 and 3) No Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes (If No, skip question 3) Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? (If No, fill out Page Three of the ACO-1) Yes PERFORATION RECORD - Bridge Plugs Set/Type Acid, Fracture, Shot, Cement Squeeze Record Shots Per Foot Specify Footage of Each Interval Perforated Depth (Amount and Kind of Material Used) TUBING RECORD: Size: Set At: Packer At: Liner Run: Yes No Date of First, Resumed Production, SWD or ENHR. Producing Method: Flowing Pumping Gas Lift Other (Explain) **Estimated Production** Oil Bbls Gas Mcf Water Bbls. Gas-Oil Ratio Gravity Per 24 Hours METHOD OF COMPLETION: DISPOSITION OF GAS: PRODUCTION INTERVAL: Open Hole Perf. Dually Comp. Commingled Vented Sold Used on Lease (Submit ACO-5) (Submit ACO-4) (If vented, Submit ACO-18.) Other (Specify)

810 E 7TH PO Box 92 EUREKA, KS 67045 (620) 583-5561



Cement or Ac	d Field Report
Ticket No	1798
Foreman Kev	N MSCoy
Camp EUREKA	1

Date	Cust ID#	Leas	e & Well Number		Section	Township	Range	County	State
10-7-14	1024	HARbI	, #3	N .	7	165	100	SAline	KS
Customer				Safety	Unit#	Dr	iver	Unit#	Driver
BOP	west La	1		Meeting Km	104	AlAN	m		
Mailing Address	2007 20		Company of the second of the s		113	Scott	w		
P.O. Bo	× 129			SW	V				
City		State	Zip Code		***************************************				
Woost	eR	OH	44691					н.	
Job Type <u>Sur</u>	RFACE	Hole Dep	oth 228 KB		Slurry Vol. 3	3 866	Tu	bing	
Casing Depth	211' 6.4.	Hole Siz	e 12 1/4"	and the second second	Slurry Wt. 4	4.8 *	Dr.	ill Pipe	
Casing Size & \	N1 85/8 2	3 # Cement L	eft in Casing 15		Water Gal/Sk		Ot	her	(3)
Displacement 1			ement PSI		Bump Plug to		BF	PM	
							1 5 866	Tresh water	R.
Mixed 133	s sks ch	ass A" Cen	p to 85/8 CAS	CACLZ .	2% GeL	1/4 = 5/0-	SEAL ISK	@ 14.8 4/9	al =
33 BLL 5/0,	RRY. DIS	place w/ 13	2 Bbl feesh	water.	Shot CA	sing in. 6	Good Cem	ent Returns	. 16
SURFACE :	- 8 B6L	Slurny to	Pit. Job Co	mplete	. Rig do	wa.	-		
							-	P ₂	
					The state of the s		¥.		
		***************************************				NAME OF THE OWNER OWNER OF THE OWNER OWNE		-	
		7	2				× 1 10		
					3 1 A	VACONO CONTRACTOR OF THE STATE		1	

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C 101	1	Pump Charge	840.00	840.00
107	90	Mileage	3.95	355.50
200	135 sks	Class "A" Coment	15.00	2025.00
205	380 *	CACLZ 31/2	. 60	228.00
206	250 #	Gel 2%.	.20	50.00
209	34 *	Gel 2%. FTG-SEAL Y4#/5K	2.25	76.50
C Jo8 B	6.34 TONS	Ton Mileage 90 miles	1.35	770.31
		4je3 3 20 8 20 00 00 00 00 00 00 00 00		
-				
	8			
		THANK YOU	Sub TOTAL	4345.31
	. 6,	7.15%	Sales Tax	170.13
Authoriz	ation Witnes	sed By Duke Coulter Title Toolpusher	Total	4515.44

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.

Range

Township

State

810 E 7TH PO Box 92 EUREKA, KS 67045 (620).583-5561

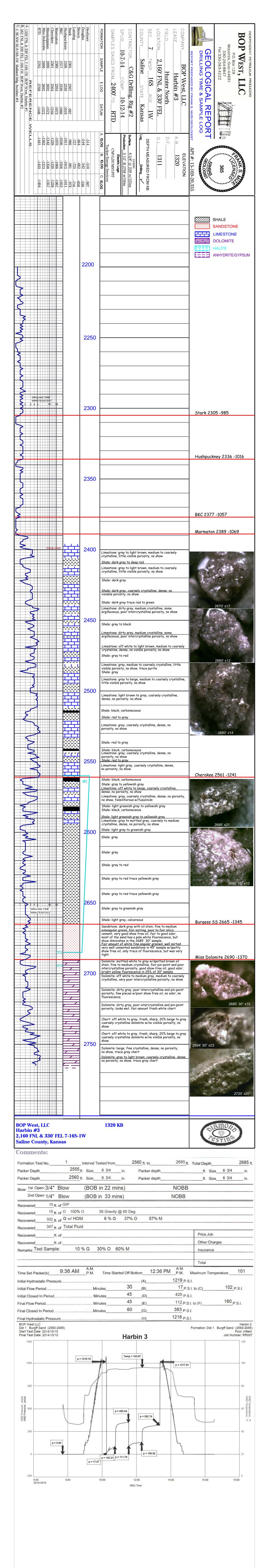


Cement or Acid Field Report
Ticket No. 1802
Foreman Kevin McCoy
Camp Eureka

Date	Cust. ID#	ist ID# Lease & Well Number		Section	Township	Range	County	State		
10-11-14		HARb	w #3		7	165	Iw	SALINE	Ks	
Customer		CONTRACTOR OF THE PARTY OF THE	The second secon	Safety	Unit#	Dr	ver	Unit#	Driver	
BOP	west	110		Meeting	104	AlaN	m.			
	wesi	220		KM	112					
Mailing Address	_			AM	7000			<u>'</u>		
P.O. Z	30x 129	on management of the state of t		15						
City		State	Zip Code							
Wooste	R	OH	44691							
Job Type <u> </u>	MASTRINA	Hole Dep	th 2765 KB		Slurry Vol. 3			ubing orill Pipe		
Casing Depth 2758 KB Hole Size 77/8					Water Gal/SK 9.0 Other					
Casing Size & Wt. 51/2" - 14# Cement Left in Casing 10.10									· ·	
Displacement 68.5 BbC Displacement PSI 500				Bump Plug to	1000 PSI	B	PM			
Remarks: Some 10 w/ 5* Koo Release La	grety Med BbL Meta L-SeAL S greb down 500 PSI	eting: Rig silicate PA K@ 13.7* Plug. Disp Bumo Plug	up to 5/2 C Re Flush, 5. Igal, yield 1.	Asing. BbL WA 85 = 3 SeAT WAIT 2	BREAK C. HER SPACE 3 BBL STU W/ 68.5 Z MILL MINIS. TO	iRculation er. Mixed irry. WA BBL FRESH Release PR	w/5. 100 s shout, water. Pessure	Bbl FRESH O KS THICK SE Pump & LINES FINAL PUMP FINAT & PI	Shut down	
						The second secon				
						CONTRACTOR OF THE PROPERTY OF				

Code	Qty or Units	Description of Product or Services	Unit Price	. Total
102	, .	Pump Charge	1050.00	1050.00
107	90	Mileage	3.95	355.50
_ 101_	70		= 1	
201	100 sks	THICK Set Coment	19.50	1950.00
	500 4	KOL-SEAL 5#/SK	. 45*	225.00
207	. 000	Not othe o for		
C 216	100 #	Metasilicate the Flush	2.00 +	200.00
C 108 B	5.5 Tons	Ton Mileage 90 miles	/.35	668.20
2 421	,	51/2 LATCH down Plug	230.00	230.00
691	,	5/2 Guide	167.00	167.00
2 703	i	51/2 AFU INSERT Flappee Valve	145.00	145.00
504	4	51/2 × 71/8 CENTRALIZERS	48.00	192.00
1				
		THANK YOU	Sub TOTAL	5182.70
	1	A 7.15%	Sales Tax	222.29
	zation Da	Title X	Total	5404.99

agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.





DIAMOND TESTING P.O. Box 157

HOISINGTON, KANSAS 67544

(800) 542-7313

DRILL-STEM TEST TICKET

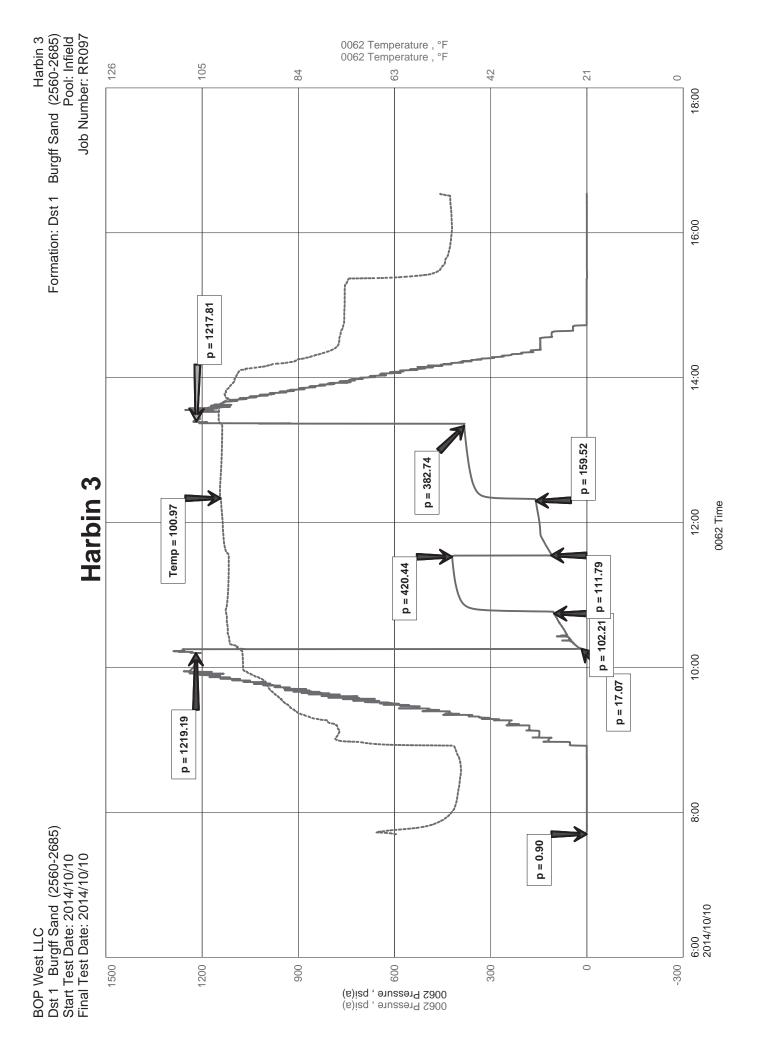
FILE: Harbin 3 Dst 1

TIME ON: 07:42

TIME OFF: 15:53

Company BOP West LLC	Lease & Well No. Harbin 3
Contractor C & G Drilling	Charge to BOP West LLC
Elevation 1311 Sur Formation Burgff Sand	Effective PayFt. Ticket NoRR097
	nge1 W CountySalineState_KANSAS
Test Approved By Frank Mize	Diamond Representative RICKY RAY
Formation Test No. 1 Interval Tested from 256	60 ft. to 2685 ft. Total Depth 2685 ft.
Packer Depth ft. Size 6 3/4 in.	Packer depthft. Size 6 3/4in.
Packer Depth 2560 ft. Size 6 3/4 in.	Packer depthft. Size6 3/4in.
Depth of Selective Zone Set	
Top Recorder Depth (Inside) 2542 ft.	Recorder Number 0062 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside)ft.	Recorder Number 5954 Cap. 5000 P.S.I.
Below Straddle Recorder Depthft.	Recorder NumberCapP.S.I.
Mud Type CHEM Viscosity 39	Drill Collar Length 300 ft. I.D 2 1/4 in.
Weight 9.2 Water Loss 10.6 cc.	Weight Pipe Length ft. I.D 2 7/8 in
Chlorides 1150 P.P.M.	Drill Pipe Length 2227 ft. I.D 3 1/2 in
Jars: Make STERLING Serial Number 8	Test Tool Length 33 ft. Tool Size 3 1/2-IF in
Did Well Flow? NA Reversed Out NA	Anchor Length 125A (32P) ft. Size 4 1/2-FH in
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 xh in.	Surface Choke Size 1 in. Bottom Choke Size 5/8 in
Blow: 1st Open: 3/4" Blow (BOB in 22 mins)	NOBB
2nd Open: 1/4" Blow (BOB in 33 mins)	NOBB
Recovered 15 ft. of GIP	
Recovered 15 ft. of O 100% O 36 Gravity @ 60 Deg	
Recovered 332 ft. of G w/ HOM 6 % G 37% C) 57% M
Recovered 347 ft. of Total Fluid	
Recoveredft. of	Price Job
Recoveredft. of	Other Charges
Remarks: Tool Sample: 10 % G 30% O 60% M	Insurance
O.OC AM. A.M.	Total A.M.
Time Set Packer(s) 9:36 AM P.M. Time Started Off Bot	
Initial Hydrostatic Pressure	
Initial Flow Period	(B) 17 P.S.I. to (C) 102 P.S.I.
Initial Closed In Period	(D)P.S.I.
Final Flow Period	(E)112 P.S.I. to (F)160 P.S.I.
Final Closed In PeriodMinutes60	(G)383 P.S.I.
Final Hydrostatic Pressure	(H)1218 _{P.S.I.}

C:\Users\Testing11\Desktop\Dst1 10-Oct-14 Ver





Wellsite Report

Diamond Testing LLC P.O. Box 157 HoisingtonKS 67544

Ricky Ray - Tester (620) 617-7261

General Information

Company Name BOP West LLC Contact Steven W Sigler **Well Operator BOP West LLC Well Name** Harbin 3 **Surface Location** Sec: 7-16s-1w (Saline County) Field **Hunter North** Well Type Vertical **Pool** Infield Test Purpose (AEUB) **Initial Test** Qualified By Frank Mize **Gauge Name** 0062

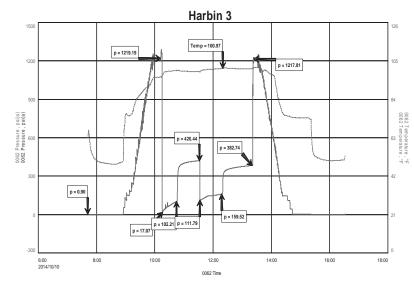
Test Information

Job Number
Test Type
Well Fluid Type
Formation Dst
Start Test Date
Start Test Time
Final Test Date
Final Test Time

Drill Stem Test 01 Oil Dst 1 Burgff Sand (2560-2685) 2014/10/10 Y

2014/10/10 YYYY/MM/DD 07:42:00 HH:mm:ss 2014/10/10 YYYY/MM/DD 15:53:00 HH:mm:ss

RR097



Test Results

Recovery:

15' GIP 15' O

15' O 100% O 36 Gravity @ 60 Deg 332 G w/ HOM 6 % G 37% O 57 % M

347' Total Fluid

Tool Sample: 10% G 30% O 60% M