Kansas Corporation Commission OIL & GAS CONSERVATION DIVISION

WELL COMPLETION FORM

Form Must Be Typed Form must be Signed All blanks must be Filled

Form ACO-1 June 2009

WELL HISTORY - DESCRIPTION OF WELL & LEASE

7564	073-24164-0000
OPERATOR: License # R & W Energies	API No. 15 - C of the East Line NW NW
Name: % Diana Smith Accounting	Spot Description: e2 e2 nw nw Sec. Twp. S. R. 9 East West
P.O. Box 427 203 W. Main	
Modicon Ke 66860	1100
City: State: XS Zip: USGOO + Contact Person: Kevin F. Hough	Feet from East / West Line of Section
Contact Person: 620 583 4785	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	☐ NE ☑ NW ☐ SE ☐ SW ☐ Greenwood
CONTRACTOR: License # Three Rivers Exploration Company Inc.	Gray-Divine 1
Nama:	Lease Name: Well #: Well #:
Wellsite Geologist: Jack Berentz	Field Name:
Purchaser: Maclaskey Oilfield Service	Producing Formation: 1175 1179
Designate Type of Completion:	Elevation: Ground: 173 Kally Rushing: 173
✓ New Well	Total Depth: 2238 Plug Back Total Depth: 2228
Ø oil ☐ wsw ☐ swd ☐ slow	Amount of Surface Pipe Set and Cemented at: Feet
☐ Gas ☐ D&A ☐ ENHR ☐ SIGW	Multiple Stage Cementing Collar Used? ☐ Yes ✔ No
OG GSW Temp. Abd.	If yes, show depth set: Feet
CM (Coal Bed Methane)	If Alternate II completion, cement circulated from:
Cathodic Other (Core, Expl., etc.):	feet depth to: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: 500 ppm Fluid volume: 300 bbls
☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD	Dewatering method used: Let Dry and Backfill
Conv. to GSW	
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled Permit #:	Operator Name:
Dual Completion Permit #:	Lease Name: License #:
SWD Permit #: ENHR Permit #:	QuarterSecTwpS. RRECEIVEDast West
☐ ENHR Permit #:	County: Permit #: MAY 2 4 2012
11/12/11 11/16/11	MAI Z 7 ZUIL
Spud Date or Date Reached TD Completion Date or	KCC WICHITA
Recompletion Date Recompletion Date	1.69 111011171
Kansas 67202, within 120 days of the spud date, recompletion, workover or c	the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information quested in writing and submitted with the form (see rule 82-3-107 for confiden-
	ell report shall be attached with this form. ALL CEMENTING TICKETS MUST
AFFIDAVIT	KCC Office Use ONLY
I am the affiant and I hereby certify that all requirements of the statutes, rules and	regu-
lations promulgated to regulate the oil and gas industry have been fully complied	
and the statements herein are complete and correct to the best of my knowled	ge. Confidential Release Date:
Signature Heur Tous H	Wireline Log Received
Signature: //X/M/W////////////////////////////////	1 1/4

Operator Name: R 8	& W Energies			Lease N	vame.	Gray-Divin	e	Well #:		
Sec. 23 Twp.24	s. R. 9	East		County	Gree	enwood				
INSTRUCTIONS: Shitime tool open and clorecovery, and flow rat line Logs surveyed.	now important tops at osed, flowing and sho es if gas to surface to	ut-in pressi est, along v	ures, whether s with final chart(etrated. De hut-in press	etail all c sure rea	ores. Report a	l, hydrostatic p	ressures, bottom	hole temp	perature, fluid
Orill Stem Tests Taker (Attach Additional		Y	es 🕢 No			og Formati	on (Top), Dept	h and Datum	2	Sample
Samples Sent to Geo	logical Survey	□ Y	es 🗹 No		Nam Dou	e glas Sand		Top 1032-		Datum 143
Cores Taken		□ Y	es 🗹 No		Lans	-		1153	+	22
Electric Log Run Electric Log Submitte	d Electronically	₽ Y			Kans	sas City		1463	-2	288
(If no, Submit Cop	=	L! "	es 8 1140		Paw	nee		1769	-	594
List All E. Logs Run: Gamma Ray I	Neutron				Barti	esville Sa	nd	2129	-8	954
		Repo	CASING ort all strings set-	RECORD conductor, su	Ne orface, into		ction, etc.			
Purpose of String	Size Hole Drilled	Si	ze Casing	Weig	ght	Setting	Type of			and Percent Additives
Surface	12 1/4	8 5/8	t (In O.D.)	24	rı.	Depth 40'	Commo		3% c	
Production	7 7/8	4 1/2		11.5		2238	Poz mix	385		
			ADDITIONAL	CEMENTIN	NG / SQL	JEEZE RECORI)			
Purpose: —— Perforate	Depth Top Bottom	Туре	e of Cement	# Sacks	Used		Туре	and Percent Additiv	9S	
Protect Casing Plug Back TD	N/A									
Plug Off Zone	N/A								,	
Shots Per Foot			RD - Bridge Plug Each Interval Per				acture, Shot, Ce Amount and Kind	ment Squeeze Rec of Material Used)	ord	Depth
1 shots/ft	2152-2164	13 shot	S			750 gal	15% HCL	Acid		2152-
2 shots/ft	2172-2185	27 shot	s total 40	shots		792 bbl 1	total fluid	and 35000	lbs	2185
						sand	,· • • • •		RECE	VED
									MAY 2	4 2012
								· · · · · · · · · · · · · · · · · · ·	CC WI	CHITA
TUBING RECORD:	Size: 2 3/8	Set At 2154	:	Packer A	t:	Liner Run:	☐ Yes 💆	No No	66 ()	UNIIA
Date of First, Resumed 1/26/2012	Production, SWD or E	NHR.	Producing Met	hod: Pumpin	g 🗆	Gas Lift	Other (Explain) .			
Estimated Production Per 24 Hours	5 bbl	Bbls.	Gas	Mcf	Wa	ioo bbl	Bbls.	Gas-Oil Ratio		Gravity 40
Diepoeit	ION OF GAS:			METHOD OF	COMP	ETION:	·	BBOD!	TION INTER	2/41
Vented ☐ Sol	ION OF GAS: d □Used on Lease		_	METHOD OF Perf.	Duality		ommingled	2152218	TION INTER 35	IVAL;
-	ibmit ACO-18.)		Other (Specify)		(Submit		ibmit ACO-4)			



TICKET NUMBER 33420

LOCATION EUREKA

FOREMAN KEVIN M°Coy

PO Box 884, Chanute, KS 66720 620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT

620-431-9210 <i>-</i>	or 800-467-8676	5		CEMEN	IT API #15-0	73-24/64		Ks
DATE	CUSTOMER#	W	ELL NAME & NUM		SECTION	TOWNSHIP	RANGE	COUNTY
11-15-11	7263	GRAY.	- DIVINE #	/	23	245	96	Gw
CUSTOMER				THree				
	I ENERGIES			RIVERS	TRUCK #	DRIVER	TRUCK#	DRIVER
MAILING ADDRI				Explor.	520	John S.		
P.o. Bo	× 427				515	Shannon F		
CITY		STATE	ZIP CODE		479	Chrus B		
MADISO.	~	Ks	66860		452 T-63	Jim M.		
JOB TYPE	igstring o	HOLE SIZE_	77/8"	 HOLE DEPT	H 2240' G.L.		EIGHT 4 1/2 /	1,60 # New
CASING DEPTH	2238 6.L.	DRILL PIPE_		TUBING			OTHER	
SLURRY WEIGH	HT/2.5-13.6	SLURRY VO	128 B66	WATER gal/s	sk_9.0	CEMENT LEFT in	CASING /0.3	٥′
DISPLACEMEN [®]						RATE 5 BPM		
REMARKS:SA	Fety Meetin	vg: 7190	cp to 41/2 C	ASING. BR	EAK CIRCULA	tron w/ 10 Bb	4 FResh wi	eter.
Mixed 285	5K5 60/401	POZMIX CE	ment w/8%	(GeL / "	PhenoSeal /	sk@ 12.5 4/9	AL YIELD	1.85. TAIL
IN W/ 100	SKS THICK	Set Cem	1ent w/5#	KOL-SEAL /	SK 14 Pheno	SEAL /SK @ 1.	3.6 # JOAL	reld 1.85.
WASh out	Pump & Lir	ves. Shut	down. Rel	eAse LAte	h down Plug	. Displace +	6 SEAT W	135 BBL
Fresh wat	er. FINAL Pu	MPING PR	essur 1000	PSI. Bum	o Plug to 15	OO ASI. WAIT,	2 minutes	. Release
PRESSUR.	FIGAT & Plug	Held. 6	od Cement	Returns +	SURFACE =	12 866 5/URI	er to Pit	ANNULUS
Standing :	Full. No t	ALL BACK.	Job Com	lete, Rio	down.		<u>, , , , , , , , , , , , , , , , , , , </u>	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		·		/				 ·

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	/	PUMP CHARGE	975.00	975.00
5406	15	MILEAGE	4.00	60.00
4311		4/2 Weld on CollAR	70.00	70.00
1131	285 sks	60/40 POZMIX COMENT	11.95	3405.75
11188	1960 *	Gel 8% Lead Cement	. 20	392.00
1107 A	285 *	Pheno Seal 1"/sk	1.22	347.70
1126 A	100 5/5	THICK SET CEMENT	18.30	1830.00
1110 A	500 #	KOL-SEAL 5ª/SK TAIL CEMENT	.44	220.00
1107A	/00 #	Pheno Seal 14/sk	1.22	122.00
5407	17.75 Tons	15 Miks BULK DELV. RECEIVED	1.26	335.48
550 L C	3 HRS	WATER TRANSPORT MAY 24 2012	1/2.00	336.00
//23	6000 9Als	City water	15.60/1000	93.60
4201		4/2 Guide Shoe KCC WICHITA	115.00	//5.00
4453		4/12 LATCH down Plug	232.00	232.00
4226	/	41/2 AFLL INSERT FLOAT VALVE	161.00	161.00
4/03		41/2 Cement Basket	2/8.00	2/8.00
4129	5	41/2 × 77/8 Ce N + RALIZELS	42.00	2/0.00
			Sub TOTAL	9123.53
		THANK YOU 7.3%	SALES TAX	541.44
avin 3737	1/ 1//	1-1	ESTIMATED TOTAL	9664.97

AUTHORIZTION TOTAL 9664.97

DATE DATE

I acknowledge that the payment ferms, 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.

GEOLOGICAL REOPRT

R&W ENERGIES GRAY DIVINE WELL #1 LOCATION E/2 E/2 NW NW 1100' FWL & 660' FROM NORTH LINE SECTION 23-24S-9E

ELEVATION GL--1175 KB--1180'

PERMANENT DATUM GL 1175'

SURFACSE CASING 8 5/8" SET AT 50' & CEMENTEDWITH 50 SACKS

CIRCULATED CEMENT TO SURFACE

PRODUCTION CASING 4 1/2" 11.5 # SET @ 2238' CEMENTED WITH 385 SACKS

CIRCULATED CEMENT TO CELLAR

CONSOLATED CEMENTING COMPANY CEMENTED CASING

CONTRACTOR THREE RIVERS DRILLING COMPANY

COMMENCED DRILLING UNDER SURFACE 11/12/11

COMPLETED WITH ROTARY TOOLS 11/16/11

1769' - 594'

- 954'

2129'

FORMATION TOPS

Pawnee

Bartlesville Sand

Douglas Sand Base of Douglas	900' 950'	+ 275' + 225'	
Stalnaker Sand	1032'	+ 143'	RECEIVED
Base Sand	1116'	+ 59'	MAY 2 4 2012
Lansing	1153'	+ 22'	KCC WICHITA
Base	1327'	- 152'	William 661
Kansas City	1463'	- 288'	
Base KC	1617'	- 442'	

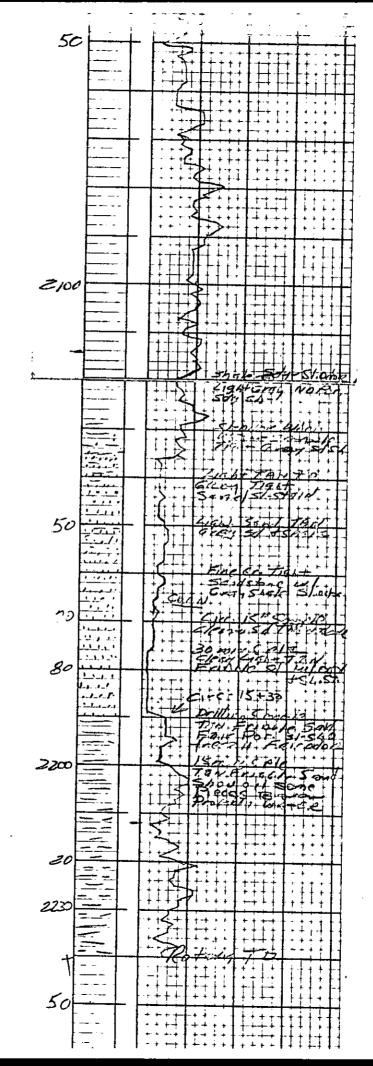
Bartlesville Sand	2129'	- 954'
Base BV	2190'	- 1015'
Plug back TD	2228'	- 1053'
•		
Rotary Total Depth	2240'	-1065

The only zone of interest in this well is the Bartlesville Sandstone. The top of the Bartlesville is at 2129' picked from drilling time. The samples were not washed clean but I did find in the 2140' sample a slight odor in gray tight sand clusters. The 2150' sample same as above, little better odor and cleaner sand gray in color, 2160' sample light gray to tan sandstone w/slight odor and when I broke open sand clusters noticed a waxiness and found very few pieces with small drops of oil. The 2170' sample was cleaner sand friable small amt, of oil popping from clusters broken open. The 2180' sample cleaner, drilling time broke to 1/2 min per foot; sand clusters show waxiness and when clusters are broken open there are small spots of clean light gravity oil. The 2190' sample was the cleanest friable sand yet with porosity fair odor with small amount of free oil, drilled 1/2 min per foot. The base of the Bartlesville is 2190'. The top 40' of sand was tighter than lower section but it had slight, grading in to fair odor with depth. The real good sand was found at 2170' to 2190'. I am sure most of the oil and sand flooded was from 2175' to 2190'. Most of the wells in this field were perforated in the lower cleaner sandstone. The zone I have last above described. This lower sand drilled soft and had some loose grains in tray with good porosity. Below this sand was gray shale. This well was not drilled to the Mississippi.

Cornish Wireline Service ran a Gamma Ray- Neutron, Cement Bond and Completion Log on 11/22/11

I think it would be interesting to perforate from 2160' to 2170'. Then frac w/35 to 40,000# of sand, cross link gel and maintain an injection rate 8 to 10 bbl pm, trying to extend the fracture as far from bore hole as possible. By perforating the interval I have set out you would be fracing the tighter sand that has not been produced to the extent that the lower sand has been produced. You need to spend a lot of time and figure the economics as to where to perforate and which zone you want to frac. If you decide to perforate and frac as I have suggested. I would displace 30,000# of sand at the low rate of 8 to 10 bbl per minute and the increase the injection rate to 25, to 30 bbl per minute bbl per minute KCC WICHITA for the last 10,000# sand, or use a diverting agent, this might help give you a more vertical frac to get some sand in the lower, higher porosity zone.

I think it would be ideal to get a little sand in both zones. This should help the cumulative production.



RECEIVED
MAY 2 4 2012
KCC WICHITA



CEMENT BOND JAMINIA KAT NEUTRON

Company R & W ENERGIES

COMPLETION LOG 2012
NERGIES
NERGIES
NAY 2 4 2012

County Field GREENWOOD State **GRAY - DIVINE #1** THRALL - AGARD KANSAS

KCC WICHITA

#1	Field	THRALL - AGARD	ARD	
/INE AGAI	County	GREENWOOD State		KANSAS
- DI\ - L - /	Location:	API#:		Other Services
& W RAY IRAL REE!	***************************************	E/2 E/2- NW-NW	W	
GF TH GF		SEC 23 TWP 24S	RGE 9E	Elevation
	Permanent Datum	tum G.L.	Elevation	1175 KB 1190
Comp Vell Tield Count State	Log Measured From	From G.L.		D.F. G.L. 1175
		11-22-2011		
Run Number		1-NEW WELL		
Depth Driller		GR-N-CCL-CBL		
Depth Logger		2228.3'		
Top Log Interval		SURFACE		
Bottom Logged Interva	<u>8</u>	2228.3'		
Fluid Level		FULL		
Type Fluid		WATER		
Production Casing		4.5" @ 2238'	8 5/8" @ 40"	(8)
Max. Recorded Temp	Ö			
Estimated Cement Top	ှ			
Calculated Cement Top	Гор	27		
Amount & Type Cement	nent			
Amount & Type Admix	ix			
Drilling Contractor		THREE RIVERS		
Equipment Number		107		3
Location			-	
Recorded By		UDEN, D.		
•				•

