

Kansas Corporation Commission Oil & Gas Conservation Division

1086691

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:	SecTwpS. R
Address 2:	Feet from North / South Line of Section
City:	Feet from _ East / _ West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	County:
Name:	Lease Name: Well #:
Wellsite Geologist:	Field Name:
Purchaser:	Producing Formation:
Designate Type of Completion:	Elevation: Ground: Kelly Bushing:
New Well Re-Entry Workover	Total Depth: Plug Back Total Depth:
Oil WSW SWD SIOW Gas D&A ENHR SIGW OG GSW Temp. Abd. CM (Coal Bed Methane) Cathodic Other (Core, Expl., etc.):	Amount of Surface Pipe Set and Cemented at: Feet Multiple Stage Cementing Collar Used?
Operator:	
Well Name:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth: Deepening Re-perf. Conv. to ENHR Conv. to SWD Conv. to GSW	Chloride content: ppm Fluid volume: bbls Dewatering method used:
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 #:	Quarter Sec Twp S. R
☐ ENHR Permit #: ☐ GSW Permit #:	County: Permit #:
Spud Date or Date Reached TD Completion Date or Recompletion Date Recompletion 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



Operator Name:			Lease Name	e:			_ Well #:	
Sec Twp	S. R	East West	County:					
time tool open and clos	sed, flowing and shut s if gas to surface tes	I base of formations per in pressures, whether set, along with final chart well site report.	shut-in pressure	reached s	static level,	hydrostatic press	sures, bottom h	ole temperature, fl
Orill Stem Tests Taken (Attach Additional S		Yes No		Log	Formatio	n (Top), Depth an	d Datum	Sample
Samples Sent to Geolo		☐ Yes ☐ No	N	lame			Тор	Datum
Cores Taken Electric Log Run Electric Log Submitted (If no, Submit Copy)	I Electronically	Yes No Yes No Yes No						
List All E. Logs Run:			RECORD [Used			
	Size Hole	Report all strings set- Size Casing	-conductor, surface Weight		ate, producti Setting	on, etc. Type of	# Sacks	Type and Percen
Purpose of String	Drilled	Set (In O.D.)	Lbs. / Ft.		Depth	Cement	Used	Additives
		ADDITIONA	L OFMENTING (00115575	DECORD			
		ADDITIONA	L CEMENTING / :	SQUEEZE	RECORD			
Purpose: Perforate Protect Casing Plug Back TD Plug Off Zone	Depth Top Bottom	Type of Cement	# Sacks Used	d		Type and F	Percent Additives	
Shots Per Foot		ON RECORD - Bridge Plu ootage of Each Interval Pe				cture, Shot, Cement mount and Kind of Ma	•	d Depth
TUBING RECORD:	Size:	Set At:	Packer At:	Line	r Run:	Yes No		
Date of First, Resumed I	Production, SWD or ENI	HR. Producing Me	thod:	Gas Li	ift C	Other (Explain)		
Estimated Production Per 24 Hours	Oil E	Bbls. Gas	Mcf	Water	В	ols. (Gas-Oil Ratio	Gravity
DISPOSITIO	Used on Lease	Open Hole	METHOD OF COM Perf. D (Sub	MPLETION: ually Comp omit ACO-5)	. Cor	nmingled mit ACO-4)	PRODUCTIO	DN INTERVAL:
(If vented, Sub	mit ACO-18.)	Other (Specify) _						



MAP EXPLORATION, INC.

MICHAEL ANTHONY POLLOK, PRES.

P.O. Box 106 = Purcell, Oklahoma 73080
Office 405/527-6038 = Home 405/527-5200 = Mobile 405/823-4493 = Fax 405/527-7629
= E-Mail: mapexpl@aol.com

GEOLOGICAL REPORT EINSEL 13-3H NE NW SW SECTION 13 – T33S – R17W COMANCHE COUNTY, KANSAS

SUMMARY

The above captioned well was drilled to a total measured depth of 7,490 feet on December 2, 2011. Horizontal drilling services were provided by Inwell. A one-man logging unit was on location from approximately 3,800 feet to TD. The well was under the geological supervision of the undersigned from 4,200 feet to TD. At TD, Weatherford electric logs were run that consisted of a Compact Well Shuttle Induction, Compact Well Shuttle Compensated Neutron-Density and a Compact Micro-Imager. From the data collected while drilling and analyzing, potential hydrocarbon shows were encountered in the Mississippian. A production liner was set in the horizontal lateral through the Mississippian.

MISSISSIPPIAN

The top of the Mississippi was encountered at 5,387 feet (MD) and 5,056 (-3,160) feet (TVD). Seven inch intermediate pipe was set approximately 140 feet into the Mississippian at a MD of 5,525 feet. The samples in the were described as buff, tan, off-white, to cream, moderately firm, very fine to micro crystalline limestone with a trace of free glauconite and slightly shaley. Sucrosic textured dolomites were observed as well. Good inter-crystalline and some fractured porosity were seen. An abundant bright yellow fluorescence, flash cut and fair streaming cut was observed. The gas chromatograph recorded numerous gas kicks ranging from 96 units to 702 units respectively. The electric logs indicated numerous productive zones porosity in excess of 20%.

MUDLOG & ELECTRIC LOG TOPS

	REDLAND	REDLAND
	EINSEL 13-3H	RODNEY 13-5
	NE NW SW	C SW NW
	13-T33S-R17W	13-T33S-R17W
STARK SH.	4699	4750
(Subsea)	(-2803)	(-2856)
CHEROKEE SH.	4986	4986
(Subsea)	(-3090)	(-3092)
MISS. UNCON.	5056	5046
(Subsea)	(-3160)	(-3152)

CONCLUSION

The Einsel 13-3H was drilled as a developmental well of the Mississippian. After all data was analyzed it was determined that both the Mississippian should be commercially productive. A decision was made to run pipe and attempt completion in hopes of economical oil and gas production.

Respectfully submitted,

Chase Thomas Geo-Tech

07/10/12

ALLIED CEMENTING CO., LLC. 036564 Federal Tax 1.D.# 20-5975804

REMIT TO P.O. BOX 31 RUSSELL, KANSAS 67665		SERV	ICE POINT:	EROU KS
DATE 11-16-11 SEC. 3 TWP. RANGE 7W	CALLED OUT ON LO	CATION SOC.M	JOB START 5.00AM	5.30A.M
LEASE EUSS (WELL#/3-3H LOCATION COLD CA	Sen Ks 25	΄ ζ	COUNTY	STATE
OLD OR NEW (Circle one) (DE 25 E	ti Cos			
CONTRACTOR DO Poly	OWNER SAME			
HOLE SIZE / JA T.D. 640	CEMENT	پیسسد م	. //	100-
CASING SIZE DEPTH 3	AMOUNT ORDERED	150	65/	36 68 CEC
DRILL PIPE DEPTH	22C 997	D Z	200 20	2.161
TOOL DEPTH	_		K	FOSSER A
PRES. MAX SOO MINIMUM MEAS. LINE SHOE JOINT UD. NO	COMMON 150	4	@/625	24375
MEAS, LINE SHOE JOINT 42. 85	POZMIX	sk.	@ 7/2 \$	1275
PERFS.		35K_	@21/20	- F 7 100
DISPLACEMENT 45'E BBK Lack	ASC	2-0/	@	
EQUIPMENT	150 GTE		J 300	225000
			.@	
PUMPTRUCK CEMENTER BAS / CEASAIL	FLOSER 7	5.B	@270	20700
# \$72 HELPER /35/6		J -	@ @	<u> 402 </u>
# DRIVER Jold (BARW)			@	-
BULK TRUCK	****		@	
# DRIVER	W. W		@	21760
	HANDLING 3/6 MILEAGE SKAMA	. 11	@ <u>Z</u>	1530.65
REMARKS:	MILLONGE A BA	-//	<u>-</u>	1738.00 7964.25
mix 150 sx los/35/10+3/00 +1/4 Hosed			TOTAL	1707.50
MX 130 SX A +3 POCK +2 POXI		SERVIC	Œ	
Displace wy Jash.	DEPTH OF JOB		63	3/ '
Brok blin 100 # Over.	PUMP TRUCK CHAR			11250
	EXTRA FOOTAGE	33/	@ 295	3/4 45
	MILEAGE 100	}	@ 7~`	700.00
	MANIFOLD + HEAD	200	@ yw	200 5
		90 <u>-4</u>	@	/ 3 0
CHARGE TO: KED LAND KES			-	
STREET			TOTAL	2739.43
1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				
CITYSTATEZIP	PLUG	& FLOAT	EQUIPMEN	т
	97	~ 1 20111	SOUTH MADE	*
			<u></u>	7
	BAFFLE PL	ATE	@	117 00
To Allied Cementing Co., LLC.			@	
You are hereby requested to rent cementing equipment		<i>Y</i>	.@	
and furnish cementer and helper(s) to assist owner or			.@	
contractor to do work as is listed. The above work was				n-(
done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL"	•		TOTAL	<u>206.00</u>
TERMS AND CONDITIONS" listed on the reverse side.	SALES TAX (If Any)_			
All asset on the reverse side.	TOTAL CHARGES	15	2020	
PRINTED NAME		· -		
AMAZIN IVAIVIE OF CONTRACTOR O	DISCOUNT2	. 1		O IN 30 DAYS
SIGNATURE		ダタフ	43,70	σ
SIGNATURE / U		0 /		
			······································	

ALLIED CEMENTING CO., LLC. 037846 Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31 RUSSELL, KANSAS 67665

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SERVICE POINT:

							ne udgely
DATE 11-27-11	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE EINIL	WELL#		LOCATION US/	50 \$ 24, 1s	5 /w 5/2 c c	COUNTY	STATE
OLD OR NEW (Ci	rcle one)		1 4 40	. C	1 1 - 3 - 1 C2, E-	Lamencha	123
		A-A	into at R	93191,			
CONTRACTOR	Dan D	±.5		OWNER	Redland 1	ا م	
TYPE OF JOB '	Partich	01	, , , , , , , , , , , , , , , , , , , ,		Torta 1	3071	
HOLE SIZE 8 3/4	(T.D.	5525	CEMENT			
CASING SIZE '7'	. /		TH 5523		RDERED 300	se chech	AST 15#
TUBING SIZE		DEF		Kolean 1 +	RDERED <u>300.</u> • 5% FC-160+	1/4 # Flores	1
DRILL PIPE		DEF	TH	1 015	2.70.	1 10,000	
TOOL		DEF					
PRES. MAX/70	0	MIN	IIMUM	COMMON		(ii)	
MEAS. LINE		SHC	DE JOINT 39.	C			***************************************
CEMENT LEFT IN	ICSG. 4	Đ'		GEL		@	***************************************
PERFS.				CHLORIDE			
DISPLACEMENT	211 6	36/s FRE	256 HBO	ASC			
	-	IPMENT			300 SX	@ <u>21,25</u>	<u>6375.00</u>
	EQU.	AR IVERSIA E		Kokseou	1500 H		1335.00
VALUE OF THE PARTY				TI U G	141#	@ 	8485.20
			elia	- Floseou	75#		208.50
	HELPER '	JiThi	nesch			@ <u></u>	
BULK TRUCK		_ ^					
#421-	DRIVER 4	E. Pipes	ζ		**************************************		
BULK TRUCK		•	•			- [@]	
<u>#</u>	DRIVER			HANDLING	390	@ 2.25	87750
				MILEAGE	390 x . 11 x30		1383 00
	REA	ARKS:		Willes too _			\$12.502.70
O. 12.1.0			C0- C	N. V. G.		TOTA	$\Gamma_{A}[\alpha'',\overline{\Omega},\overline{\zeta',\overline{\Omega}}]$
Pipe on BHM	COCOUNT	GRU, K	mp2USXSca	vergen			
Coment Mix 2 Wash Pump & Line Regn HO, Soe !	2USEH 1	MSC cem	est, Stop Re	mpj.	SERVI	CE	
Wash Fump & Line	s, Kejea	replus.	Start Dispu	<u> </u>	·		
Carl Free (x creenie	1 21	JOW RATE	DEPTH OF	юв <u>5523'</u>		
Refease PSI, F	gar Ju	12615 71	tal Disp., At	/200 [#] PUMP TRUC			2145.00
Requirers, 1	Town ()	'a Hold				@	
					Γ.	$\Lambda \sim -10$	L 1/7/73 www
***************************************		***************************************		MILEAGE_		0 <u>7.00</u>	<u> 700</u>
				MAÑIFOLD	Leadrental	@	200-
				— MAÑIFOLD <u>Light Ve</u>	headrental		300- 300-
	1/ 1 6	Adam haran a sayara aya saya da sayaran sa		— MAÑIFOLD <u>L'ght-Ve</u> SUXCIGE	<u>headmental</u> hicle Ul rentau	@	200-
CHARGE TO: Re	Hand R	esources		— MAÑIFOLD <u>L'ght-Ve</u> SUXCIGE	<u>headmental</u> hicle Ul rentau	@ <u>H.OO</u>	950
	Ward R	esources		— MAÑIFOLD <u>L'ght-Ve</u> SUXCIGE	<u>hedrentil</u> hicks III rentsy ge gyerconar	@ <u>H.OO</u>	950
STREET		TO SEPTEMBER PRINTED TO A SEPTEMBER OF THE SEPTEMBER OF T		— MAÑIFOLD <u>L'ght-Ve</u> SUXCIGE	<u>headmental</u> hicle Ul rentau	@ <u>H.OO</u>	950
		TO SEPTEMBER PRINTED TO A SEPTEMBER OF THE SEPTEMBER OF T		— MAÑIFOLD <u>L'ght-Ve</u> SUXCIGE	<u>deadrental</u> hicke Lu rental ge overtonar	© ————————————————————————————————————	250- L 3805.00
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STREET		TO SEPTEMBER PRINTED TO A SEPTEMBER OF THE SEPTEMBER OF T		— MAÑIFOLD <u>L'ght-Ve</u> SUXCIGE	<u>deadrental</u> hicke Lu rental ge overtonar	© ————————————————————————————————————	3505.00
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STREET		TO SEPTEMBER PRINTED TO A SEPTEMBER OF THE SEPTEMBER OF T		MAÑÍFOLD Light Ve SUXCIGE Pluschon /- Sine Se	A endrental hiele Lu rental ge over conar plug & FLOA	TOTAL	280 L 3805.00 NT L09.00
STREET	STA	NTE		MAÑÍFOLD Light Ve SUXCIGE Pluschon /- Sine Se	<u>deadrental</u> hicke Lu rental ge overtonar	TOTAL	280 L 3805.00 NT L09.00 758.00
STREET CITY To Allied Cement	STA	TE	ZIP	MAÑIFOLD Light Veg SLYCIGE Plus Chon /- Sine Se /- TRP	A endrental hiele Lu rental ge over conar plug & FLOA	TOTAL	280 L 3805.00 NT L09.00
CITY To Allied Cement You are hereby re	STA STA	LC.	ZIP	MAÑIFOLD Light Veg SLYCLGE Phus Chon /- Sure Se /- TRP	A endrental hiele Lu rental ge over conar plug & FLOA	TOTAL	280 L 3805.00 NT L09.00 758.00
CITY To Allied Cement You are hereby re and furnish cemer	STA	LC. prent cemelper(s) to	ZIP	MAÑIFOLD Light Veg SWEGGE Phus Chon /- Sure Se /- TRP	A endrental hiele Lu rental ge over conar plug & FLOA	TOTAL	280 L 3805.00 NT L09.00 758.00
CITY To Allied Cement You are hereby re and furnish cemer contractor to do w	ing Co., L quested to nter and he	LC. o rent cemelper(s) to	ZIP	MAÑIFOLD Light Veg SUXCIGE DIUSCION - Sure Se - TRP vas	A endrental hiele Lu rental ge over conar plug & FLOA	TOTAL	280 L 3805.00 NT L/09.00 758.00 85.00
To Allied Cement You are hereby re and furnish cemer contractor to do w done to satisfaction	ing Co., L quested to ter and ho york as is I	LC. o rent cemelper(s) to listed. Therefore the control of the con	ZIP	MANIFOLD Light Veg SUXCLOR PHISCHOR	A endrental hiele Lu rental ge over conar plug & FLOA	TOTAL	280 L 3805.00 NT L/09.00 758.00 85.00
To Allied Cement You are hereby re and furnish cemer contractor to do w done to satisfactio contractor. I have	ing Co., L quested to ater and he york as is I on and sup a read and	LC. o rent cemelper(s) to disted. The ervision of understan	ZIP	MANIFOLD Light Veg SUXCLOR DIUSCHOR - Sure Se - TRP r vas or AL	Leadmental Niele Ju PROTONIA PRUG & FLOA PLUG & FLOA Lead Float Shoe ed Float Collan	TOTAL	280 L 3805.00 NT L/09.00 758.00 85.00
To Allied Cement You are hereby re and furnish cemer contractor to do w done to satisfaction	ing Co., L quested to ater and he york as is I on and sup a read and	LC. o rent cemelper(s) to disted. The ervision of understan	ZIP	MANIFOLD Light Veg SUXCLOR DIUSCHOR - Sure Se - TRP r vas or AL	A end mental Aiche Ju PROTONOUT PLUG & FLOA PLUG & FLOA A Float Shoe end Float Collan (If Any)	TOTA FOTA TOTA TOTA TOTA	280 L 3805.00 NT L/09.00 758.00 85.00
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To Allied Cement You are hereby re and furnish cemer contractor to do w done to satisfactio contractor. I have TERMS AND CO	ing Co., L quested to ater and he york as is I on and sup a read and	LC. o rent cemelper(s) to disted. The ervision of understan	ZIP	MANIFOLD Light Veg SUXCIGE DIUSCION	A endrental Kiele Jul PROTOLI PROJECT COMOR PLUG & FLOA A Float Shre ed Float Gellar (If Any)	### TOTA	2805.00 NT 1,09.00 7.58.00 85.00 L 1452.00
To Allied Cement You are hereby re and furnish cemer contractor to do w done to satisfactio contractor. I have	ing Co., L quested to ater and he york as is I on and sup a read and	LC. o rent cemelper(s) to disted. The ervision of understan	ZIP	MANIFOLD Light Veg SLYCIGE Plus Chon /- Sure Se /- TRP ent r vas or AL side. SALES TAX	A endrental Kiele Jul PROTOLI PROJECT COMOR PLUG & FLOA A Float Shre ed Float Gellar (If Any)	### TOTA	280 L 3805.00 NT L/09.00 7.58.00 85.00
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To Allied Cement You are hereby re and furnish cemer contractor to do w done to satisfactio contractor. I have TERMS AND CO	ing Co., L quested to ater and he york as is I on and sup a read and	LC. o rent cemelper(s) to disted. The ervision of understan	ZIP	MANIFOLD Light Veg SUXCIGE DIUSCION	A endrental Kiele Jul PROTOLI PROJECT COMOR PLUG & FLOA A Float Shre ed Float Gellar (If Any)	### TOTA	2805.00 NT 1,09.00 7.58.00 85.00 L 1452.00

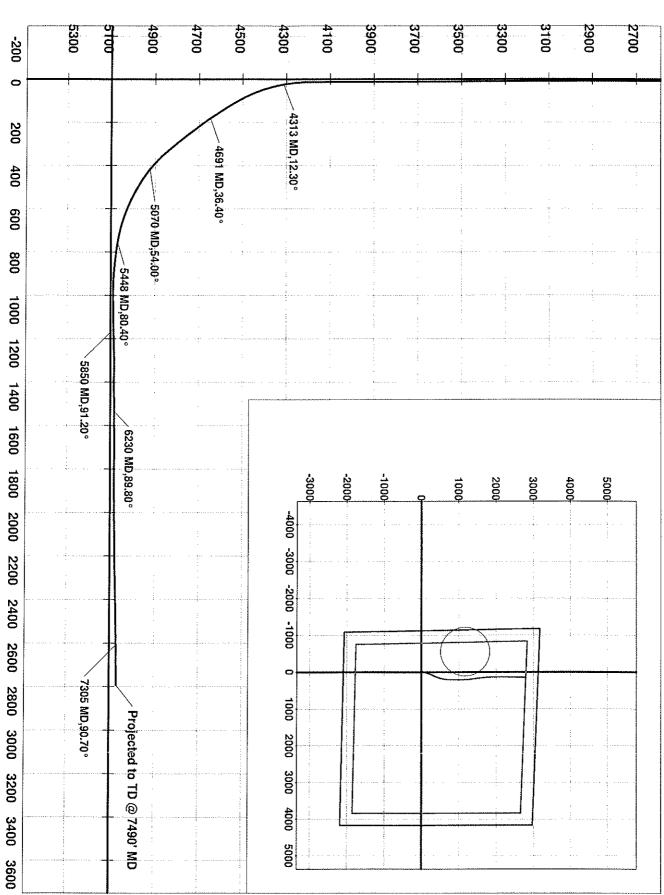
ALLIED CEMENTING CO., LLC. 037903 Federal Tax 1.D.# 20-5975804

REMIT TO P.O. BOX 31 RUSSELL, KANSAS 67665

SERVICE POINT:

Medicine Louise Ks

DATE 12-3-2011	ISEC/3	TWP 3335	RANGE 1フル	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE Finse	WELL# 3	リ 3	LOCATION 160 & C	1224, 150		COBNTY	STATE
OLD OR NEW (CI	rcle one)		5/2 30wn	, essento			
	Dan D				ed19n& 1	2esource	5
TYPE OF JOB	Jrozuct		76.1	·	/		
	778	T.D.		CEMENT	DERED 50	~ ~~~	
			TH 215) '	AMOUNT OR	KSS & ASC	5x 60:40	1 1 000
TUBING SIZE DRILL PIPE	31/211	DEP	тн <i>53СС</i> '	2000x C	% C-51 + 1	Mote Calain	24 + 1.3 18
TOOL		DEP		C. P8 3 . 10	10 = 31 + 11	4772-1175	4-14 15 4 70.00.05
PRES. MAX	**************************************		IMUM	COMMON 🗸	1 30 sx	@ 16.25	487,50
MEAS. LINE			E JOINT 43'	POZMIX	00 5x	@ 8.50	170.00
CEMENT LEFT II	N CSG.			GEL	2 5×		42-50
PERFS.				CHLORIDE_		@	
DISPLACEMENT	68 661	15 Of 1	best mateu		200 sx	@ <u>ZI.ZS</u>	4250.00
	EQUI	PMENT		<u> Kolscal</u>			890.00
	2000			floseal	, So ##	@ <u>2.70</u>	135-00
PUMP TRUCK	CEMENTE	RDarin	F CHADA	C-18	2823		3885-96
#360-265	HELPER	Jason	7	C-41P	/8-8° .50°	@20.64 = @20.64	388.03 445.00
BULK TRUCK				5-101 LOSS		73	272.40
#363-290	DRIVER	Adem	M	5-top less	D. L.	- (@ 1/ 90	1428.00
BULK TRUCK				310p p.53	Polymer	5 @ 11.90 6 @	1100,00
#	DRIVER C	75r1 B.	Nesi R.	- HANDLING		<u> </u>	7/5.50
				MILEAGE S		//	1049.40
	RÉM	IARKS:			/ /	:	14,159-29
Pino hair		-010	ulction, Pump			IOIAI	1.4121-21
10 blis 015	and loss	S' Occes	anus 2005	-	SERV	/ICE	
of Cement, S	PO 700	n . k)95h	Olimas lines	-	SEAV	TCE	
Release Plus.	29619 91	SP19601	ment, Lift press	- ₩ DEPTH OF I	OB <u>751フ'</u>		
9+26 bbis	Slow re	ite to	3hlpmc+60		K CHARGE	2695.00	>
bhis, bump	P109 G16	S 661	s 600-1600 PS,	EXTRA FOO		@	
flog + gry he	aldy Mix	<u>5050</u>	of comens.		60	@ <i>7.0</i> 0	420.00
FOL BOT & W	case hole	Sy Keva	rse our widh 80.	MANIFOLD		@	
blug gorn	A#21.12	PM		Light ve	hicle 60.	@ 4.60	240.00
0	,	^				@	
CHARGE TO: _R	4016no	<u>Leso</u>	ንሶርቀያ	·•			
STREET				•		TOTA	<u> 3355</u> 0
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CITY							
CITY	STA	TE	ZIP	-	BLUC SELO	A 75° 12 (O.) 11 (O.) 4 (O.)	a (e)
CII 1	STA	TE	ZIP	-	PLUG & FLO	AT EQUIPME	NT
	STA	TE	ZIP	-			
	STA	TE	ZIP	- 4- Spirac	Cizer S	<u> </u>	6 461-44
			ZIP	4– Spirac	Cizer S	@ <i>_//S</i> .3 @	6 461-44
To Allied Cemer	nting Co., L	LC.		4- Spirac	Cizer S	@ <u>//S.3</u> @	6 461-44
To Allicd Cemer You are hereby r	nting Co., L	LC.	nenting equipment	4- Spirac	Cizer S	@ //5.3 @ @ @	6 461-44
To Allied Cemer You are hereby r and furnish ceme	nting Co., L requested to enter and he	LC. rent cen	nenting equipment, Dassist owner or	4- Spiras	Cizer S	@ <u>//S.3</u> @	6 461-44
To Allied Cemer You are hereby r and furnish ceme contractor to do	nting Co., L equested to enter and he work as is 1	LC, rent cen elper(s) to isted. Ti	nenting equipment, o assist owner or ne above work was	4- spirac	Cizer S	@ //S-3 @ @ @ @	6 461-44
To Allied Cemer You are hereby r and furnish ceme contractor to do done to satisfacti	nting Co., L requested to enter and he work as is I ion and sup	LC. rent cen elper(s) to isted. The	nenting equipment, o assist owner or ne above work was of owner agent or	4- spiva:	Cizer S	@ //S-3 @ @ @ @	6 461-44
To Allied Cemer You are hereby r and furnish ceme contractor to do done to satisfacti contractor. I have	nting Co., L requested to enter and he work as is I ion and sup- re read and	LC. rent cen lper(s) to isted. The crvision	nenting equipment, o assist owner or ne above work was of owner agent or nd the "GENERAL	A SALES TAX	(If Any)	@ //S-3 @ @ @ @ TOTA	6 461-44 1. 461.44
To Allied Cemer You are hereby r and furnish ceme contractor to do done to satisfacti contractor. I have	nting Co., L requested to enter and he work as is I ion and sup- re read and	LC. rent cen lper(s) to isted. The crvision	nenting equipment, o assist owner or ne above work was of owner agent or	A SALES TAX	(If Any)	@ //S-3 @ @ @ @ TOTA	6 461-44 1. 461.44
To Allied Cemer You are hereby r and furnish ceme contractor to do done to satisfacti contractor. I hav TERMS AND Ce	nting Co., Lequested to enter and he work as is I ion and sup- re read and ONDITION	LC. rent cen lper(s) to isted. The crvision	nenting equipment, o assist owner or ne above work was of owner agent or nd the "GENERAL	A SALES TAX	Zizer S	@ //S-3 @ @ @ @ TOTA	6 461-44 1. 461.44
To Allied Cemer You are hereby r and furnish ceme contractor to do done to satisfacti contractor. I have	nting Co., Lequested to enter and he work as is I ion and sup- re read and ONDITION	LC. rent cen lper(s) to isted. The crvision	nenting equipment, o assist owner or ne above work was of owner agent or nd the "GENERAL	SALES TAX TOTAL CHA	(If Any)RGES	@ //5.3 @@ @ TOTA	6 461.44 1. 461.44
To Allied Cemer You are hereby r and furnish ceme contractor to do done to satisfacti contractor. I hav TERMS AND Ce	nting Co., Lequested to enter and he work as is I ion and sup- re read and ONDITION	LC. rent cen lper(s) to isted. The crvision	nenting equipment, o assist owner or ne above work was of owner agent or nd the "GENERAL	SALES TAX TOTAL CHA	(If Any) RGES 7	@ //5.3 @@ @ TOTA 975-73	6 461.44 1. 461.44
To Allied Cemer You are hereby r and furnish ceme contractor to do done to satisfacti contractor. I hav TERMS AND CO	nting Co., Lequested to enter and he work as is I ion and sup- re read and ONDITION	LC. rent cen lper(s) to isted. The crvision	nenting equipment, o assist owner or ne above work was of owner agent or nd the "GENERAL	SALES TAX TOTAL CHA	(If Any)RGES	@ //5.3 @@ @ TOTA 975-73	6 461.44 1. 461.44
To Allied Cemer You are hereby r and furnish ceme contractor to do done to satisfacti contractor. I hav TERMS AND Ce	nting Co., Lequested to enter and he work as is I ion and sup- re read and ONDITION	LC. rent cen lper(s) to isted. The crvision	nenting equipment, o assist owner or ne above work was of owner agent or nd the "GENERAL	SALES TAX TOTAL CHA	(If Any) RGES 7	@ //5.3 @@ @ TOTA 975-73	6 461.44 1. 461.44
To Allied Cemer You are hereby rand furnish ceme contractor to do done to satisfactic contractor. I have TERMS AND CONTRACTOR NAME	nting Co., Lequested to enter and he work as is I ion and sup- re read and ONDITION	LC. rent cen elper(s) to isted. The ervision understan	nenting equipment, of assist owner or the above work was of owner agent or and the "GENERAL on the reverse side	SALES TAX TOTAL CHA	(If Any) RGES 7	@ //5.3 @@ @ TOTA 975-73	6 461.44 1. 461.44







Lease/Well: Einsel 13-3H Company: Redland Resources Job Number: 11-223

Rig Name: Dan D # 5 Location: Comanche County

> Declination: 5.05 State/Country: Kansas

File name: P:\SURVEYS\REDLAND\11223.SVY Grid: 0.32

Date/Time: 07-Dec-11 / 07:52

Curve Name: as drilled

Inwell inc

WINSERVE SURVEY CALCULATIONS

Minimum Curvature Method

Vertical Section Plane 00

Vertical Section Referenced to Wellhead

Rectangular Coordinates Referenced to Wellhead

3492.00 4123.00 4155.00 4186.00 4218.00	.00 617.00 1086.00 1788.00 2704.00	Measured Depth FT
.30 .70 .80 .90	.00 .10 .60 1.20	Incl Angle Deg
294.00 291.80 290.80 296.10 12.70	.00 217.00 271.50 300.10 9.40	Drift Direction Deg
3491.82 4122.80 4154.80 4185.79 4217.79	.00 617.00 1085.99 1787.90 2703.83	True Vertical Depth
788.00 631.00 32.00 31.00 32.00	617.00 469.00 702.00 916.00	Course Length FT
11.67 13.78 13.93 14.07 14.69	.00 43 69 3.09 9.48	N-S FT
-22.76 -27.84 -28.23 -28.67 -28.79	.00 32 -3.03 -13.06 -21.10	E-W FT
11.67 13.78 13.93 14.07	.00 43 69 3.09 9.48	Vertical Section FT
.04 .06 .32 .39 6.70	.12	Dogleg Severity Deg/100
1418454.24 1418449.16 1418448.77 1418448.33 1418448.21	1418477.00 1418476.68 1418473.97 1418463.94 1418465.90	Grid X FT
501740.67 501742.78 501742.93 501743.07 501743.69	501729.00 501728.57 501728.31 501732.09 501738.48	Grid Y FT

5038.00 5070.00 5101.00 5132.00 5163.00	4880.00 4912.00 4943.00 4943.00 4975.00 5007.00	4723.00 4754.00 4786.00 4817.00 4849.00	4566.00 4597.00 4628.00 4660.00 4691.00	4408.00 4439.00 4471.00 4502.00 4534.00	4250.00 4281.00 4313.00 4344.00 4376.00	Measured
51.30 54.00 56.10 58.50 60.80	41.60 42.40 43.20 45.60 48.30	38.10 39.10 40.10 40.30 40.80	32.00 34.00 34.90 35.00 36.40	20.30 22.70 25.40 27.90 29.90	Angle Deg 5.50 9.10 12.30 15.40 18.00	incl
23.00 21.80 20.60 18.90 17.10	23.60 23.70 24.20 23.90 23.80	21.30 21.70 22.80 23.00 23.20	17.80 19.30 20.40 20.40 20.40 20.90	25.70 20.90 17.40 16.40 16.80	Direction Deg 28.20 30.90 31.00 30.10 28.40	Drift
4903.96 4923.38 4941.13 4957.88 4973.54	4792.73 4816.51 4839.25 4862.11 4883.96	4672.53 4696.75 4721.41 4745.09 4769.40	4544.09 4570.09 4595.65 4621.88 4647.05	4402.87 4431.71 4460.93 4488.64 4516.65	Vertical Depth 4249.71 4280.46 4311.90 4341.99 4372.64	True
31.00 32.00 31.00 31.00 31.00	31.00 32.00 31.00 32.00 32.00	32.00 31.00 32.00 31.00 32.00	32.00 31.00 31.00 31.00 32.00 31.00	32.00 31.00 32.00 31.00 31.00 32.00	Length FT 32.00 31.00 32.00 31.00 32.00	Course
395.73 419.25 442.93 467.49 492.93	293.31 312.92 332.17 352.61 374.00	200.13 218.12 237.00 255.43 274.57	115.45 131.46 147.95 165.13 182.06	48.87 59.30 71.62 84.93 99.74	N-S FT 16.58 20.00 25.09 31.49 39.51	i I
127.23 136.91 146.10 154.91 163.17	82.11 90.70 99.25 108.37 117.83	43.24 50.33 58.05 65.84 74.00	12.16 17.54 23.49 29.88 36.26	-9.92 -5.45 -1.19 2.84 7.26	E-W FT -27.94 -25.98 -22.92 -19.16 -14.68	 - -
395.73 419.25 442.93 467.49 492.93	293.31 312.92 332.17 352.61 374.00	200.13 218.12 237.00 255.43 274.57	115.45 131.46 147.95 165.13 182.06	48.87 59.30 71.62 84.93 99.74	Section FT 16.58 20.00 25.09 31.49 39.51	Vertical
9.88 8.95 7.48 9.01 8.95	2.72 2.51 2.80 7.53 8.44	5.37 3.32 3.82 .77 1.61	6.76 6.97 3.53 .31 4.61	7.70 9.59 9.54 8.19 6.28	Severity Deg/100 11.29 11.66 10.00 10.02 8.27	Dogleg
1418604.23 1418613.91 1418623.10 1418631.91 1418640.17	1418559.11 1418567.70 1418576.25 1418585.37 1418594.83	1418520.24 1418527.33 1418535.05 1418542.84 1418551.00	1418489.16 1418494.54 1418500.49 1418506.88 1418513.26	1418467.08 1418471.55 1418475.81 1418479.84 1418484.26	Grid X FT 1418449.06 1418451.02 1418454.08 1418457.84 1418462.32	
502124.73 502148.25 502171.93 502196.49 502221.93	502022.31 502041.92 502061.17 502081.61 502103.00	501929.13 501947.12 501966.00 501984.43 502003.57	501844.45 501860.46 501876.95 501894.13 501911.06	501777.87 501788.30 501800.62 501813.93 501828.74	Grid Y FT 501745.58 501749.00 501754.09 501760.49 501768.51	

			1 ST PERFORATION MD-5,550'	ENTERED MISSISSIPPIAN 5353.00 TVD-5,056' MD-5,384'5416.00 5475.00	1
6008.00 6040.00 6072.00 6103.00 6135.00	5850.00 5882.00 5913.00 5945.00 5977.00	5691.00 5723.00 5754.00 5786.00 5818.00	5533,00 5564.00 5596.00 5627.00 5659.00	5353.00 5384.00 5416.00 5448.00 5475.00	Measured Depth FT 5195.00 5227.00 5258.00 5290.00 5321.00
89.50 89.70 89.60 90.10 91.00	91.20 91.20 91.50 91.60 91.00	90.00 90.80 91.10 91.20 91.10	84.50 84.70 85.30 87.70 89.20	73.50 75.90 78.50 80.40 82.00	Incl Angle Deg 62.90 64.90 66.70 68.70 71.20
352.80 352.00 352.10 352.10 352.10 352.60	358.40 358.30 358.20 358.50 358.50	.10 .20 .50 359.60 358.80	.40 .50 .10	6.50 5.30 1.90	Drift Direction Deg 14.90 13.50 12.20 10.00 8.10
5082.87 5083.10 5083.29 5083.37 5083.07	5086.00 5085.33 5084.60 5083.73 5083.01	5088.66 5088.44 5087.93 5087.29 5086.64	5079.98 5082.89 5085.68 5087.58 5088.44	5047.90 5056.08 5063.17 5069.03 5073.16	True Vertical Depth 4988.64 5002.72 5015.43 5027.57 5038.20
31.00 32.00 32.00 31.00 32.00	32.00 32.00 31.00 32.00 32.00	32.00 32.00 31.00 32.00 32.00	58.00 31.00 32.00 31.00 32.00	32.00 31.00 32.00 32.00 32.00 27.00	Course Length FT 32.00 32.00 31.00 31.00 31.00
1314.42 1346.14 1377.83 1408.54 1440.25	1156.69 1188.67 1219.64 1251.62 1283.57	997.73 1029.72 1060.72 1092.71 1124.70	840.06 870.92 902.80 933.74 965.73	663.52 693.26 724.37 755.79 782.47	N-S FT 520.05 547.90 575.47 604.52 633.27
198.63 194.40 189.97 185.71 181.45	205.92 205.00 204.06 203.14 201.63	206.85 206.94 207.12 207.15 206.71	206.33 206.57 206.71 206.74 206.80	198.41 201.49 203.82 205.25 205.83	E-W FT 170.94 177.98 184.27 189.97 194.54
1314.42 1346.14 1377.83 1408.54 1440.25	1156.69 1188.67 1219.64 1251.62 1283.57	997.73 1029.72 1060.72 1092.71 1124.70	840.06 870.92 902.80 933.74 965.73	663.52 693.26 724.37 755.79 782.47	Vertical Section FT 520.05 547.90 575.47 604.52 633.27
11.69 2.58 .44 1.61 3.22	1.29 .31 1.02 .99 7.73	2.50 2.52 1.37 2.83 2.52	4.32 .72 2.44 7.75 4.69	8.62 8.60 10.16 7.33 7.60	Dogleg Severity Deg/100 8.93 7.38 6.95 8.92 9.91
1418675.63 1418671.40 1418666.97 1418662.71 1418658.45	1418682.92 1418682.00 1418681.06 1418680.14 1418678.63	1418683.85 1418683.94 1418684.12 1418684.15 1418683.71	1418683.33 1418683.57 1418683.71 1418683.74 1418683.80	1418675.41 1418678.49 1418680.82 1418682.25 1418682.83	Grid X FT 1418647.94 1418654.98 141866.27 141866.97 1418671.54
503043.42 503075.14 503106.83 503137.54 503169.25	502885.69 502917.67 502948.64 502980.62 503012.57	502726.73 502758.72 502789.72 502821.71 502853.70	502569.06 502599.92 502631.80 502662.74 502694.73	502392.52 502422.26 502453.37 502484.79 502511.47	Grid Y FT 502249.05 502276.90 502304.47 502333.52 502362.27

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	LAST PERFORATION MD-7,410'							
Projected to TD 7490.00		7020.00 7115.00 7210.00 7305.00	6925,00	6540.00 6735.00	6451.00	6261.00 6261.00	6166.00 6198.00	Measured Depth FT
90.60	90.50 90.60	91.50 91.40 90.90 90.70	90.80 91.30	90.30 90.80	89.40	89.80 90.30	91.40 90.20	Incl Angle Deg
.90	1.10 .90	1.40 1.00 1.30	359.80 .50	357.90 359.40	356.10	352.90 352.40	352.80 352.80	Drift Direction Deg
5067.11	5068.01 5067.59	5074.64 5072.24 5070.33 5069.01	5078.71 5076.96	5080.94 5080.03	5080.87	5081.97 5081.94	5082.42 5081.97	True Vertical Depth
46.00	95.00 44.00	95.00 95.00 95.00 95.00	95.00 95.00	94.00 95.00 95.00	95.00	32.00 31.00	31.00 32.00	Course Length FT
2792.85	2702.87 2746.86	2323.02 2417.97 2512.93 2607.90	2133.07 2228.05	1848.22 1943.11 2038.08	1754.40	1534,49 1565,23	1470.99 1502.74	FT &
145.83	144.34 145.11	136.55 138.46 140.45	135.14 135.39	142.44 138.04 135.81	148.26	169.52 165.56	177.51 173.50	E-W
2792.85	2702.87 2746.86	2323.02 2417.97 2512.93 2607.90	2133.07 2228.05	1848.22 1943.11 2038.08	1754.40	1534.49 1565.23	1470.99 1502.74	Vertical Section FT
.00	.30 .51	.47 .54 .38	.42	1.05 1.18 1.66	3.TU 1.70	1.29 2.28	1.44 3.75	Dogleg Severity Deg/100
1418622.83	1418621.34 1418622.11	1418613.55 1418615.46 1418617.45 1418619.35	1418612.14	1418619.44 1418615.04 1418612.81	1418632.38 1418625.26	1418646.52 1418642.56	1418654.51 1418650.50	Grid X FT
504521.85	504431.87 504475.86	504052.02 504052.02 504146.97 504241.93 504336.90	503862.07	503577.22 503672.11 503767.08	503388.67 503483.40	503263.49 503294.23	503199.99 503231.74	Grid Y FT