

Confidentiality Requested:

Yes No

### Kansas Corporation Commission Oil & Gas Conservation Division

1235273

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:			Sec	TwpS. R	East West
Address 2:			F6	eet from North /	South Line of Section
City:	State: Z	ip:+	Fe	eet from East /	West Line of Section
Contact Person:			Footages Calculated from I	Nearest Outside Section C	Corner:
Phone: ()			□ NE □ NW	V □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:	W	/ell #:
	e-Entry	Workover	Field Name:		
	_		Producing Formation:		
☐ Oil ☐ WSW ☐ D&A	☐ SWD	∐ SIOW □ SIGW	Elevation: Ground:	Kelly Bushing:	:
	GSW	Temp. Abd.	Total Vertical Depth:	Plug Back Total C	Depth:
CM (Coal Bed Methane)	dow	Temp. Abd.	Amount of Surface Pipe Se	et and Cemented at:	Feet
☐ Cathodic ☐ Other (Co	ore, Expl., etc.):		Multiple Stage Cementing	Collar Used? Yes	No
If Workover/Re-entry: Old Well I			If yes, show depth set:		Feet
Operator:			If Alternate II completion, c	cement circulated from:	
Well Name:			feet depth to:	w/	sx cmt.
Original Comp. Date:					
Deepening Re-perf	•	NHR Conv. to SWD	Drilling Fluid Managemer	nt Plan	
☐ Plug Back	Conv. to G		(Data must be collected from the		
Commingled	Pormit #:		Chloride content:	ppm Fluid volume	e: bbls
Dual Completion			Dewatering method used: _		
SWD			Location of fluid disposal if	hauled offsite	
☐ ENHR			1		
GSW	Permit #:		Operator Name:		
_ <del>_</del>			Lease Name:	License #:_	
Spud Date or Date R	eached TD	Completion Date or	Quarter Sec	TwpS. 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:



Operator Name:			Lease Name: _			Well #:	
Sec Twp	S. R	East West	County:				
open and closed, flow	ring and shut-in pressu	ormations penetrated. Eures, whether shut-in predict final chart(s). Attach	essure reached stati	c level, hydrosta	atic pressures, bott		
		otain Geophysical Data a or newer AND an image		gs must be ema	ailed to kcc-well-lo	gs@kcc.ks.go	v. Digital electronic log
Drill Stem Tests Taker (Attach Additional S		Yes No		_	on (Top), Depth an		Sample
Samples Sent to Geo	logical Survey	Yes No	Nam	e		Тор	Datum
Cores Taken Electric Log Run		Yes No					
List All E. Logs Run:							
		CASING	RECORD Ne	ew Used			
		Report all strings set-	conductor, surface, inte	ermediate, product	ion, 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
	Donth		. CEMENTING / SQL	JEEZE RECORD			
Purpose:  Perforate Protect Casing Plug Back TD Plug Off Zone	Depth Top Bottom	Type of Cement	# Sacks Used		Type and P	ercent Additives	
	ulic fracturing treatment o	n this well?		Yes	No (If No, ski	p questions 2 aı	nd 3)
Does the volume of the to	otal base fluid of the hydr	aulic fracturing treatment ex submitted to the chemical	_	= :	No (If No, ski	p questions 2 at p question 3) out Page Three	
Shots Per Foot	PERFORATION Specify For	N RECORD - Bridge Plug ootage of Each Interval Per	s Set/Type forated		cture, Shot, Cement mount and Kind of Ma		d Depth
				,			
TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run:	Yes No		
Date of First, Resumed	Production, SWD or ENH	IR. Producing Meth		Gas Lift (	Other (Explain)		
Estimated Production Per 24 Hours	Oil B	bls. Gas	Mcf Wate	er B	bbls. G	as-Oil Ratio	Gravity
DISPOSITIO	ON OF GAS:	Open Hole		Comp. Con	mmingled	PRODUCTIO	ON INTERVAL:
(If vented, Sul	bmit ACO-18.)	Other (Specify)	(Submit )	400-5) (Sub	omit ACO-4)		

Form	ACO1 - Well Completion
Operator	D & Z Exploration, Inc.
Well Name	MEYERS #I-23
Doc ID	1235273

### Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement		Type and Percent Additives
SURFACE	9.825	7	20	20	PORTLAN D	10	NONE
PRODUC TION	5.625	2.825	6.2	929	50/50 POZ	118	NONE



### **REMIT TO**

Consolidated Oil Well Services, LLC Dept. 970 P.O. Box 4346 Houston, TX 77210-4346 MAIN OFFICE P.O. Box 884 Chanute, KS 66720 620/431-9210,1-800/467-8676 Fax 620/431-0012

INOICE 802107

Invoice Date: 11/24/2014 Terms: Net 30 Page 1

D & Z EXPLORATION

MEYERS # I-23

901 N. ELM ST. ST. ELMO IL 62458 USA 6188293274

Part Number	Dscription	Qty	Unit Price	Discount(%)	Total
5401	Cement Pumper	1.00	1,085.00	0.00	1,085.00
5406	Mileage Charge	30.00	4.20	0.00	126.00
5402	Casing Footage	930.00	0.00	0.00	0.00
5407	Min. Bulk Delivery Charge	1.00	368.00	0.00	368.00
5502C	80 Vacuum Truck Cement	2.00	100.00	0.00	200.00
1124	Poz Cement Mix	118.00	11.50	30.00	949.90
1118B	Premium Gel / Bentonite	398.00	0.22	30.00	61.29
1111	Sodium Chloride (Granulated	248.00	0.39	30.00	67.70
1110A	Kol Seal (50# BAG)	590.00	0.46	30.00	189.98
4402	2 1/2 Rubber Plug	1.00	29.50	0.00	29.50
			Sub	Total	3,621.18
		_ 4 % 4 1	Discounted A	Amount	543.80
		Sub	Total After Di	iscount	3,077.37

Amount Due 3,757.04 if paid after 12/24/2014

Tax:

95.76

Total:

3,173.13

\_\_\_\_\_



PO Box 884, Chanute, KS 66720

FIELD TICKET & TREATMENT REPORT

MAILING ADDRESS  901 V. Elm St  CITY St Elmo  JOB TYPE LOWGETING  HOLE SIZE  ST ELMO  JOB TYPE LOWGETING  HOLE SIZE  JOB TYPE LOWGETING  JOB THE LOWGET  LAW THE LOWGET  JOB THE LOWGET  JOB T	520-431-9210 <b>(</b>	or 800-467-8676			CEMEN	T			
CUSTOMER DRIVER TRUCK DRIVER TRUCK DRIVER  THUCK DRIVER TRUCK DRIVER  TO CASE U Soft Leading  (LEE GOMMON STORM LEADING  STATE COUNT OF THE STATE CONTROL  ACCOUNT CODE QUANITY OF UNITS DESCRIPTION OF SERVICES OF PRODUCT UNIT PRICE TOTAL  ACCOUNT CODE UNITS DESCRIPTION OF SERVICES OF PRODUCT UNIT PRICE TOTAL  ACCOUNT CODE UNITS DESCRIPTION OF SERVICES OF PRODUCT UNIT PRICE TOTAL  ACCOUNT CODE UNITS DESCRIPTION OF SERVICES OF PRODUCT UNIT PRICE TOTAL  ACCOUNT CODE UNITS DESCRIPTION OF SERVICES OF PRODUCT UNIT PRICE TOTAL  ACCOUNT CODE UNITS DESCRIPTION OF SERVICES OF PRODUCT UNIT PRICE TOTAL  ACCOUNT CODE UNITS DESCRIPTION OF SERVICES OF PRODUCT UNIT PRICE TOTAL  ACCOUNT CODE UNITS DESCRIPTION OF SERVICES OF PRODUCT UNIT PRICE TOTAL  ACCOUNT CODE UNITS DESCRIPTION OF SERVICES OF PRODUCT UNIT PRICE TOTAL  ACCOUNT CODE UNITS DESCRIPTION OF SERVICES OF PRODUCT UNIT PRICE TOTAL  ACCOUNT CODE UNITS DESCRIPTION OF SERVICES OF PRODUCT UNIT PRICE TOTAL  ACCOUNT CODE UNITS DESCRIPTION OF SERVICES OF PRODUCT UNIT PRICE TOTAL  ACCOUNT CODE UNITS DESCRIPTION OF SERVICES OF PRODUCT UNIT PRICE TOTAL  ACCOUNT CODE UNITS DESCRIPTION OF SERVICES OF PRODUCT UNIT PRICE TOTAL  ACCOUNT CODE UNITS DESCRIPTION OF SERVICES OF PRODUCT UNIT PRICE TOTAL  ACCOUNT CODE UNITS DESCRIPTION OF SERVICES OF PRODUCT UNIT PRICE TOTAL  ACCOUNT CODE UNITS DESCRIPTION OF SERVICES OF PRODUCT UNIT PRICE TOTAL  ACCOUNT CODE UNITS DESCRIPTION OF SERVICES OF PRODUCT UNIT PRICE TOTAL  ACCOUNT CODE UNITS DESCRIPTION OF SERVICES OF PRODUCT UNIT PRICE TOTAL  ACCOUNT CODE UNITS DESCRIPTION OF SERVICES OF PRODUCT UNIT PRICE TOTAL  ACCOUNT CODE UNITS DESCRIPTION OF SERVICES OF PRODUCT UNIT PRICE TOTAL  ACCOUNT CODE UNITS DESCRIPTION OF SERVICES OF PRODUCT UNIT PRICE TOTAL  ACCOUNT CODE UNITS DESCRIPTION OF SERVICES OF PRODUCT UNIT PRICE TOTAL  ACCOUNT CODE UNITS DESCRIPTION OF SERVICES OF PRODUCT UNIT PRICE TO SERVICES OF PRODUCT UNIT PRICE TO SERVICES OF PR	DATE	CUSTOMER#	WELL NA	ME & NUM	BER		TOWNSHIP	RANGE	COUNTY
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MALLING ADDRESS  901 N. ELLA STATE COST STAT	CUSTOMER	- / \							DD1//ED
GOT V. Ether St.  GOT V. CASING V.  GOT V. CASING V.  GOT V. Ether St.  GOT V. CASING V.  GOT	MAILING ADDRE		non		-				
STE LINO  STATE		1.	CL			429 /		V Sately)	reeting
STELLING  HOLE SIZE STOP  TUBING  SLURRY WEIGHT  SLURRY WOLL  SLURRY WOLL  WATER GAVER  CEMENT LEFT IN CASING  SHARL Y.5 BAN  RATE Y.5 BAN		w. vw		CODE	1	200		•	
ACCOUNT CODE QUANTY or UNITS DESCRIPTION of SERVICES OF PRODUCT UNIT PRICE TOTAL  ACCOUNT CODE TO AND MILESCE  STOC 930' CRESCE FOOLIGE  TOTAL  ACCOUNT CODE  TOTAL		uno I				370		/	
CASING DEPTH 930 DRILL PIPE TUBIC OTHER SLURRY WEIGHT 15 35 Dels DISPLACEMENT PSI MIX PSI RATE 4.5 bp.  REMARKS: h of school method of school stand remarks in the standard method of school school standard method of school school school standard method of school sc					│ HOLE DEPTH	9100		EIGHT 27/	"EUE
SLURRY WEIGHT SOLD SLURRY VOL.  WATER gallok  RATE 4.5 ban		7 ~ / /		10		- 100			
DISPLACEMENT 5.38 bols DISPLACEMENT PSI MIX PSI  REMARKS A LIST STORY ALLECTION OF SERVICES OF PRODUCT  REMARKS A LIST STORY ALLECTION OF SERVICES OF PRODUCT  REMARKS A LIST STORY AND ST					_	sk			
REMARKS: In It of the neeth of established circulation in troof + aumed 2004 Freunix Col Tollowed by 5 bits trook hader mired + pumped 118 Sts Torgunix County of Joseph 5.0 set + 5 the Isal per ste county to surface, flushed pump down anneed 21s " there may to active. The st 5.36 bits lost water pressured to 800 PSI, well hold pressure for 30 min put, colleged prossure, that in casing.  Account Quantity or units  DESCRIPTION of SERVICES or PRODUCT Unit PRICE TOTAL  9(0) - 1  PUMP CHARGE  5402 930' Casine Indiage  5402 930' Casine Indiage  5402 930' Casine Indiage  5402 930' Casine Indiage  5404 930' Casine Indiage  5404 930' Casine Indiage  5405 Minimum for mileage  5406 30 Minimum for mileage  5407 Minimum for mileage  5408 18756  11164 590 # Kasal  11165 590 #				 SI					
Coll Idland by 5 bds trash water, mixed + pumped 1/8 the 1900 Porquix  Permit wh 270 gel, 570 sett + 5 the scall per ste, relief the Surface,  Flished prine dean, princed 2/6 "Neer his to caster. The strash set in the surface of the scale of the strash set in the surface of the scale of the	REMARKS:						and the same of th	4	# Aemis
Count of 2% get, 5% satt to the fact of set, rement to surface, thereof purp claim, arrived 2% "other due to astro. To us 5.36 bots to water pessored to 200 PSI, well told pressure for 30 min MIT, colored grassure, that m casing.  Account code quantity or units description of services or product unit price total grassure for 30 min MIT, code as 500 pump charge for age for age for age for a minimum ton mileage 316.00.  Stole 2 hrs. 80 paraix coment 1357.00  1118 355 To Pozurix coment 1357.00  11104 590 # Kalsoal materials 1812.08  3070 \$43.80  4402 1 215 states dua 375.70  Francistics 12.08  3757.04  SALESTAX 95.76  ESTIMATED TOTAL	C 0 11 19		_ 111			1 .			
Hushed emp daan proped 31s "offer the to so which the pressure for 30 min 1/17.  Colored grossure, that in casing.  ACCOUNT CODE  ACCOUNT QUANITY or UNITS  DESCRIPTION of SERVICES or PRODUCT  UNIT PRICE  TOTAL  401  1 PUMP CHARGE  5402 930'  Casine fordage  5404 minimum for mileage  5502 a hrs  60 Vac  1357.00  1118 35 750  1118 35 750  1111 248 4 Jahr  1110A 590 4 Kolsoal  1110A 590 4 Kolsoal  1110A 590 4 Kolsoal  1110A 590 5134e dug  375.70  1110A 590 5134e dug  375.70  375.70  375.70  SALESTAX 95.76  ESTIMATED TOTAL	- 1		2 ,5% Ca		7			4 1	1.
Tool water pressured to 800 FSI, well held pressure for 30 min MIT, goldened grossure, that he casing.  ACCOUNT CODE QUANTY or UNITS DESCRIPTION of SERVICES or PRODUCT UNIT PRICE TOTAL (10) 1  PUMP CHARGE  SYON 30 MILEAGE  SYON 930' CASINE Sandage  SYON MILEAGE  SYON 100 MILEAGE  SYON MILEAGE  S	// 1 /	. /	•			/ V./	f		
account quantry or units Description of Services of PRODUCT Unit PRICE TOTAL  901 - 1 PUMP CHARGE  9106 - 30 ui MILEAGE  5102 - 930' C95ire Judge  5102 - ninimum for mileage  5002 - 2 hrs 80 Usc  11187 - 398 de Tremium of 87.56  1111 - 248 de Jatt  11104 - 590 de Kolsoal  11105 - 307a 573.80  11105 - 307a 573.80  11106 - 3075 SALESTAX 75.76  ESTIMATED TOTAL  111773.14	11 1							- 2 - 1	n WIT.
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## 1 PUMP CHARGE  \$100							7)	15	
## 1 PUMP CHARGE  \$100									
## 1 PUMP CHARGE  \$100									
901 - 1 PUMP CHARGE  5406 - 30 mi MILEAGE  5902 - 930'  Casive findage  5407 - minimum for mileage  5500 - 2 mrs  80 Vac  11873 - 398 # Tremium of 87.56  1110 - 248 # Jath 96.72  1110 - 590 # Kaseel 271.40  1110 - 590 # Kaseel 271.40  1110 - 30% 543.80  1208.88  4402   1 213" subseque 3757.04  1208.88  4402   1 213" subseque 3757.04  1208.88  1208.88  1208.88  1208.88  1208.88  1208.88  1208.88  1208.88  1208.88  1208.88  1208.88  1208.88  1208.88  1208.88  1208.88  1208.88  1208.88		QUANITY	or UNITS	DI	ESCRIPTION of	f SERVICES or PRO	ODUCT	UNIT PRICE	TOTAL
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5902 - 930'  \$107 - minimum for mileage  \$2000 - 2 hrs 80 hac  \$109 - 118 hs 950 Pozuix coment 1357.00  11187 - 398 ht Premium 201 87.56  1111 - 248 ht Satt 96.72  11104 - 590 ht Kalsoal naterials 1812.08  -30% 543.80  1208.88  4402 1 2/2" rule pug 3757.04  Band 3757 14  Band 3757 15  Band 3757 14  Band 3757 15  Band 3757	5406 -	- 300 u	u MI	LEAGE					126.00
\$500 - 2 hrs \$0 lac \$365.00. 000. 000. 000. 000. 000. 000. 000	-	- 930'	a	ishe	Landage	_			
31124 - 118 95 950 Pozuix coment 1357.00 -  111873 - 398 # Fremium Col 87.56  111104 - 590 # Kaspal 12.68  -3670 543.80  1402 1 215 " subset dug 3757.04  Revin 3737 Revin 3737 A SALES TAX 95.76  ESTIMATED TOTAL 3/73.14	-40	minim	com 7	on m	1				36.00.
3 1124 - 118 \$15 \$750 Pozuix coment 1357.00 -  111873 - 398 \$\text{t}\$ \$\text{TremiumGol}  \text{87.56} \\  1111 - 248 \$\text{t}\$ \$\text{Sat}\$  \text{96.72} \\  111104 - 590 \$\text{t}\$ \$\text{Kalsoal}\$  \text{materials}  \text{1812.68} \\  -3070  \text{543.80} \\  \text{value dug}   \text{3757.04} \\  \text{Revin 5737} \$\text{Climated}   \text{3757.04} \\  \text{ESTIMATED}  \text{773.14}	5500C			0-	. /				200.00
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11183 - 398 dt Pretrium(20) 84.56  1111 - 248 dt Satt 96.72  11104 - 590 tt Kalsoal 271.40  materials 1812.68  -30% 543.80  rubolal 1268.88  27.50  Revin 3737 Total 27.75% SALES TAX 95.760  ESTIMATED TOTAL 3173.14									
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1111 - 248 # Satt 96.72   271.40 - 271.			# 1	Pross.	was an	)			
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95.50  3757.04  3757.04  Revin 3737  Revin 3737  3757.04  3757.04  3773.14							Cul-dadal	3,7,00	1268 88
3757.04  77757 SALES TAX 95.76  ESTIMATED TOTAL 3/73.14	4400	,		2/5 "	6.1.10-	d	J. P.D. KITUX	-	25.00
3757.04  77757 SALES TAX 95.76  ESTIMATED TOTAL 3/73.14	( (Upc	-		× (9)	Gaber	109			6/100
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Ravin 3737 ESTIMATED TOTAL 3/73.14		1						7.77	
Ravin 3737 ESTIMATED TOTAL 3/73.14	68	pamnia	20				7.375%	SALES TAX	95.76
	Ravin 3737			7			71	ESTIMATED	
									3145.19

#### TERMS

In consideration of the prices to be charged for Consolidated Oil Well Services, LLC (COWS) services, equipment and products and for the performance of services and supplying of materials, Customer agrees to the following terms and conditions.

Terms. Cash in advance unless satisfactory credit is established. On credit sales, invoices are payable within 30 days of the invoice line. On all invoices not paid within 30 days, Customer agrees to pay COWS interest at the rate of 18% per annum of the maximum rate allowed by law, whichever is higher. In the event COWS retains an attorney to pursue collection of any account. Customer agrees to pay all collection costs and attorney increase incurred by COWS.

Any applicable federal, state or local sales, use occupation, consumer's or emergency taxes shall be added to the quoted price. All process license fees required to be paid to others will be added to the scheduled prices.

All COWS' prices are subject to change without notice.

#### SERVICE CONDITIONS

Customer warrants that the well is in proper condition to receive the services, equipment, products and materials to be supplied by COWS. The Customer shall at all time have complete care, custody, and control of the well, the drilling and production equipment at the well, and the premises about the well. A responsible representative of the Customer shall be present to specify depths, pressures, or materials used for any service which is to be performed.

- (a) COWS shall not be responsible for any claim, cause of action or demand (hereinafter referred to as a 'claim') for damage to property, or injury to or death of employees and representatives, of Customer or the well owner (if different from Customer), unless such damage, injury or death is caused by the willful misconduct or gross negligence of COWS, including but not limited to sub-surface damage and surface damage arising from sub-surface damage.
- (b) Unless a claim is the result of the sole willful misconduct or gross negligence of COWS. Customer shall be responsible for and indemnify and hold COWS harmless from any claim for: (1) reservoir loss or damage, or property damage resulting from sub-surface pressure, losing control of the well and/or a well blowout; (2) damages as a result of a subsurface trespass, or an action in the nature thereof, arising from a service operation performed by COWS; (3) injury to or death of persons, other than employees of COWS, or damage to property (including, but not limited to, injury to the well), or any damages whatsoever, irrespective of cause, growing out of or in any way connected with the use of radioactive material in the well hole; and (4) well damage of reservoir damage caused by (i) loss of circulation, cement invasion, cement misplacement, pumping eement or cement plugs on wells with loss of circulation, including the failure to displace plug to proper depth, (ii) subsurface pressure and resulting failure to complete pumping of cement or cement plug, including dehydration of cement slurry or flashing, plugged float shoe, annulus bridging or plugging, or (iii) down hole tools being lost or left in the well, or becoming stuck in the well for any reason and by any cause. COWS may furnish down hole tools and may supply supervision for the running and placement of such tools but will not be liable for any damage, loss or result caused by the use of such tools.

Furthermore, Customer will be responsible for the cost to replace such tools if they are lost or left in the well.

- (c) COWS makes no guarantee of the effectiveness of any COWS products, supplies or materials, or the results of any COWS treatment or services.
- (d) Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others. COWS is unable to guarantee the accuracy of any chart interpretation, research analysis. Job recommendation or other data furnished by COWS. COWS' personnel will use their best efforts in gathering such information and their best judgement in interpreting it, but Customer agrees that COWS shall not be responsible for any damage arising from the use of such information except where due to COWS' gross negligence or willful misconduct in the preparation or furnishing of it.
- (e) COWS may buy and re-sell to Customer down hole equipment, including but not limited to float equipment, DV tools, port collars, type A & B packers, and Customer agrees that COWS is not an agent or deater for the companies who manufacture such items, and further agrees that Customer shall be solely responsible for and indemnify COWS against any claim with regard to the effectiveness, malfunction of, or functionality of such items.

### WARRANTIES - LIMITATION OF LIABILITY

COWS warrants title to the products, supplies and materials, and that the same are free from defects in workmanship and materials. THERE ARE NO OTHER WARRANTIES, EXPRESS OR IMPLIED, NOR ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE. WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. COWS's liability and Customer's exclusive remedy in any claim (whether in contract, tort, breach of warranty or otherwise.) arising out of the sale or use of any COWS' products, supplies, materials or services is expressly limited to the replacement of such products, supplies, materials or services or their return to COWS or, at COWS' option, an allowance to Customer of credit for the cost of such items.

Customer waives and releases all claims against COWS for any special, incidental, indirect, consequential or punitive damages.

Johnson County, KS Town Oilfield Service, Inc.
Well: Meyer I-23 (913) 837-8400 11-12-2014
Lease Owner:DZ Explorarion

### WELL LOG

hickness of Strata	Formation	Total Depth
0 - 14	Soil & Clay	14
13	Shale	27
5	Lime	32
5	Shale	37
17	Lime	54
9	Shale	63
8	Lime	71
8	Shale	79
75	Lime	104
15	Shale	119
18	Lime	137
15	Shale	152
54	Lime	206
18	Shale	224
8	Lime	232
22	Shale	254
18	Lime	272
35	Shale	307
1	Lime	308
12	Shale	320
23	Lime	343
10	Shale	353
27	Lime	375
4	Shale	379
4	Lime	383
5	Shale	388
5	Lime	393
176	Shale	569
7	Lime	576
11	Shale	587
4	Lime	591
17	Shale	608
4	Lime	612
171	Shale	733
1	Lime	734
10	Shale	744
11	Sandy Shale	755
10	Shale	765
6	Sandy Shale	771
82	Shale	853

Johnson County, KS Town Oilfield Service, Inc. Commenced Spudding: Well: Meyer I-23 (913) 837-8400 11-12-2014

Lease Owner:DZ Explorarion

11-12-2014

4	Limey Shale	857
2	Sand	859
2	Sand	861
9	Sand	870
3	Sandy Shale	873
87	Shale	960 TD
	+	
	+	
	-	
	· ·	
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

# **Short Cuts**

TANK CAPACITY

BBLS. (42 gal.) equals D2x.14xh D equals diameter in feet. h equals height in feet.

**BARRELS PER DAY** Multiply gals. per minute x 34.2

HP equals BPH x PSI x .0004 BPH - barrels per hour PSI - pounds square inch

### TO FIGURE PUMP DRIVES

- \* D Diameter of Pump Sheave
- \* d Diameter of Engine Sheave

SPM - Strokes per minute

RPM - Engine Speed

R - Gear Box Ratio

\*C - Shaft Center Distance

D - RPMxd over SPMxR

d - SPMxRxD over RPM

SPM - RPMXD over RxD

R - RPMXD over SPMxD

BELT LENGTH - 2C + 1.57(D + d) +  $\frac{(D-d)^2}{4\pi}$ 

\* Need these to figure belt length

TO FIGURE AMPS:

WATTS = AMPS **VOLTS** 

746 WATTS equal 1 HP

# Log Book

Well No.	- 23	
Farm Meyer		
17671		
,		
165		Johnson
(State)		(County)
, ,		
	1	22
28		
(Section)	(Township)	(Range)
7. 7	Explandie	
For D+ L	The way we	7
	(Well Owner)	

## **Town Oilfield** Services, Inc.

1207 N. 1st East Louisburg, KS 66053 913-710-5400

Farm: County	CASING AND TUBING MEASUREMENTS				;	
State; Well No.	Feet	In.	Feet	In.	Feet	In.
Elevation				+		
Commenced Spuding 11-12 2014						
Finished Drilling						
Driller's Name						
Driller's Name						
Driller's Name Joseph Town						
Tool Dresser's Name Cole Holcom						
Tool Dresser's Name						
Tool Dresser's Name						
Contractor's Name						
(Section) (Township) (Range)						
Distance fromft.						
Distance fromft.		+-+		$-\parallel$		
		+-+	-	$-\parallel$		
		-		-		
				$\vdash$		
CASING AND TUBING	-	+-+				
RECORD		$+-\parallel$				
nedono		+-+				
40% D. No. 1		+-+				
10" Set 10" Pulled		+-				
8" Set 20.7 8" Pulled						
6¼" Set 6¼" Pulled						
4" Set 4" Pulled			<del></del>			
2"/Set 115 2" Pulled			-1-			
4" Set 4" Pulled						
1						

-6-	_	-2-	
HE-44	555	21417	5
	335	31012	5
-	535	71117	h
	3261.	3/10/15	7
	515	DWIT	27
	598	9/10/15	71
	8/28	7 M17	5 2
	3.50	7/2/15	17
	308	JN11 /	
	LX.	2/2/15	35
	ZLZ	2W17	31
	496	2/10/15	7.6
	727	a wint	3
	h7.6	+1515	31
	002	SMILL	1,9
	791	21/2/15	51
	LEI	21117	31
	- 611	Shalp	91
	101	41117	96
	- bL	11/1/5	3
	1	71117	D
	5.2	91275	6
	19	21117	The second secon
	15	3/1/15	5
	78	711116	9
	L.Z	3/-16	13
	hl	42/20/05	1-1
Кетанка	Total	Formation	Thickness of Strata

393

TI: 1		T =	Pro-
Thickness of Strata	Formation	Total Depth	Remarks
176	Shalf	549	u .
7	LIME	576	
Antonio de la constante de la	Shale	581	
LI	LIME	591	
17	Shale	608	
4	LIME	612	
171	Shale	733	
<b>John Community</b>	Lime	734	
ic	Shale	744	
1	Sandy Shale	755	
16	Shale	765	
G	Sandy Shalf	771	
82	Shale'	853	
4	Limby Shale	657	
2	Sand	859	cool blood, GC% +
2	Sand	864	White we oil
9	Sand	870	Good Diegol, 7090+
Z	Sandy Shalf	873	6-ran, 10 70 011
	Shale	960	TN
			**Madesopper*
×			

### NOTES:

# 960' JD 929.75 'pipe 3 sachs cement 20.7 'surface 5% hole Bonus Well

### Rules of Thumb

CEMENTING ANNULUS			
2" ID - 61/4" -1 Sack5.8			
2" ID - 8" - 1 Sack 3.1			
$3''  ID - 8'' - 1  Sack \dots 3.5$			
4" ID - 8" - 1 Sack4.0			
CAPACITY			
2" - 1 BBL. equals256			
2½"- 1 BBL. equals164			
3" - 1 BBL. equals115			
4" -1 BBL. equals 64			

### WATER - CEMENT RATIO

4 %"- 1 BBL. equals...... 43"

6¼"-1 BBL. equals...... 26"

8" - 1 BBL. equals..... 16'

5.5 gals. to 1 sack -2% hours to thicken slurry 7.7 gals. to 1 sack -2 hours

to thicken slurry