

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1105489

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 & LEA	SF

OPERATOR: License #	API No. 15
Name:	Spot Description:
Address 1:	
Address 2:	Feet from North / South Line of Section
City: State: Zip:+	Feet from Cast / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	
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:
	Amount of Surface Pipe Set and Cemented at: Feet
Gas D&A ENHR SIGW	Multiple Stage Cementing Collar Used? Yes No
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: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	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 #:	
ENHR Permit #:	Quarter Sec TwpS. R East West
GSW Permit #:	County: Permit #:
Spud Date or Recompletion Date Date Reached TD Completion Date or 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 III Approved by: Date:

	Side Two	1105489
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 Shee	ets)	Yes No		Log Fo	ormation (Top), Depth ar	nd Datum Top	Sample
Samples Sent to Geologic	cal Survey	Yes No		Name		юр	Datum
Cores Taken Electric Log Run Electric Log Submitted El (If no, Submit Copy)	ectronically	☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No)				
List All E. Logs Run:							
		CAS		New U	sed		
		Report all strings	set-conductor, surfac	e, intermediate,	production, etc.		
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Sett Dep		# 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 Specify For		RD - Bridge P Each Interval I		e			ement Squeeze Record I of Material Used)	Depth
TUBING RECORD:	Siz	:e:	Set At:		Packer	r At:	Liner R	un:	No	
Date of First, Resumed P	Producti	on, SWD or ENHF	₹.	Producing N	1ethod:	ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas	Mcf	Wate	ər	Bbls.	Gas-Oil Ratio	Gravity
DISPOSITIO	N OF G	BAS:			METHOD	OF COMPLE	TION:		PRODUCTION INT	ERVAL:
Vented Sold		Jsed on Lease		Open Hole	Perf.	Dually (Submit A	Comp. AC <i>O-5)</i>	Commingled (Submit ACO-4)		
(If vented, Subr	nit ACO	-18.)		Other (Specify)						

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

CEMEL'TING, INC. QUALIT CIL V Federal Tax I.D.# 20-2886107 6128 Home Office P.O. Box 32 Russell, KS 67665 Phone 785-483-2025 Cell 785-324-1041 Finish On Location State Sec. Range County Twp. 2 Date / 1100 Location Well No. Owner Lease To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish Contractor cementer and helper to assist owner or contractor to do work as listed. String Type Job HOY Charge To Stand T.D. Hole Size nera 89# Depth Street Csg. 2 State Tbg. Size Depth City The above was done to satisfaction and supervision of owner agent or contractor. Depth Tool Sement Amount Ordered Shoe Joint Cement Left in Csa 1502 Displace Meas Line EQUIPMENT Commo Cementer saig No. Poz. Mix Helper Pumptrk No. Driver Vavis Gel. Bulktrk Driver Doco Driver No. Calcium Bulktrk Heath Driver **JOB SERVICES & REMARKS** Hulls Salt Remarks: Flowseal Rat Hole 204 Kol-Seal Mouse Hole Centralizers Mud CLR 4 CFL-117 or CD110 CAF 38 **Baskets** Sand D/V or Port Collar Handling Inserto 29 46,52 Mileage FLOAT EQUIPMENT Guide Shoe Centralizer Baskets **AFU Inserts** Float Shoe Latch Down Pumptrk Charge groa Mileage Tax pig Breefer Discount X Signature **Total Charge**

	Company: Address:	OPERATOR MUSTANG ENERGY CORPORA PO BOX 1121 HAYS, KANSAS 67601	TION	
	Contact Geologist: Contact Phone Nbr: Well Name: Location: Pool: State:	ROD BRIN 785-628-3660 DEYOUNG # 3 E2 NW NW NE Sec.11-10s-21w IN FIELD KANSAS	API: Field: Country:	15-065-23,874-00-00 COOPER USA
ſ		Scale 1:240 Imperial		
	Well Name: Surface Location: Bottom Location:	DEYOUNG # 3 E2 NW NW NE Sec.11-10s-21w		
	API: License Number: Spud Date: Region:	15-065-23,874-00-00 33922 10/15/2012 GRAHAM COUNTY	Time:	8:00 AM
	Drilling Completed: Surface Coordinates: Bottom Hole Coordinates: Ground Elevation:	10/19/2012 330' FNL & 2120' FEL 2262.00ft	Time:	4:40 PM
	K.B. Elevation: Logged Interval: Total Depth: Formation:	2267.00ft 3200.00ft 3990.00ft ARBUCKLE	To:	3990.00ft
	Drilling Fluid Type:	CHEMICAL/FRESH WATER GE	L	
	Well Type:	SURFACE CO-ORDINAT	ES	
	Longitude: N/S Co-ord: E/W Co-ord:	330' FNL 2120' FEL	Latitude:	
ſ		LOGGED BY		
	Company: Address:	SOLUTIONS CONSULTING 108 W 35TH HAYS, KS 67601		
	Phone Nbr: Logged By:	(785) 639-1337 Geologist	Name:	HERB DEINES
	Contractor: Rig #: Rig Type: Spud Date: TD Date: Rig Release:	CONTRACTOR WW DRILLING, LLC 6 MUD ROTARY 10/15/2012 10/19/2012 10/20/2012	Time: Time: Time:	8:00 AM 4:40 PM 9:00 AM
ſ		ELEVATIONS		
	K.B. Elevation: K.B. to Ground:	2267.00ft Grour 5.00ft	nd Elevation:	2262.00ft
ſ		NOTES		
	DECISION TO DEEPEN WELL T	O 3990' AFTER EVALUATING RE	SULTS OF DS	ST # 1.

OPEN HOLE LOGGING BY SUPERIOR WELL SERVICES: DUAL INDUCTION LOG, DUAL COMPENSATED NEUTRON/DENSITY LOG AND MICRO LOG.

DRILL STEM TESTING BY TRILOBITE TESTING INC. - 1 CONVENTIONAL DST

FORMATION TOPS SUMMARY AND CHRONOLOGY OF DAILY ACTIVITY

DEYOUNG # 3 330' FNL & 2120' FEL, NE/4 Sec. 11-10s-21w 2262' GL 2267' KB

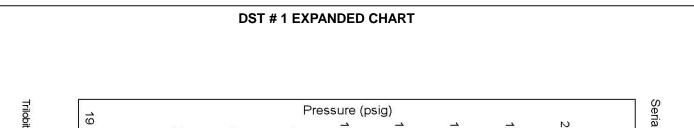
FORMATION	SAMPLE TOPS	LOG TOPS
Anhydrite	1745+ 522	1744+ 523
B-Anhydrite	1781+ 486	1780+ 487
Topeka	3270-1003	3270-1003
Heebner Shale	3480-1213	3478-1211
Toronto	3505-1238	3503-1236
LKC	3519-1252	3519-1252
ВКС	3745-1478	3745-1478
Arbuckle	3822-1555	3821-1554
RTD	3990-1723	
LTD		3990-1723

SUMMARY OF DAILY ACTIVITY

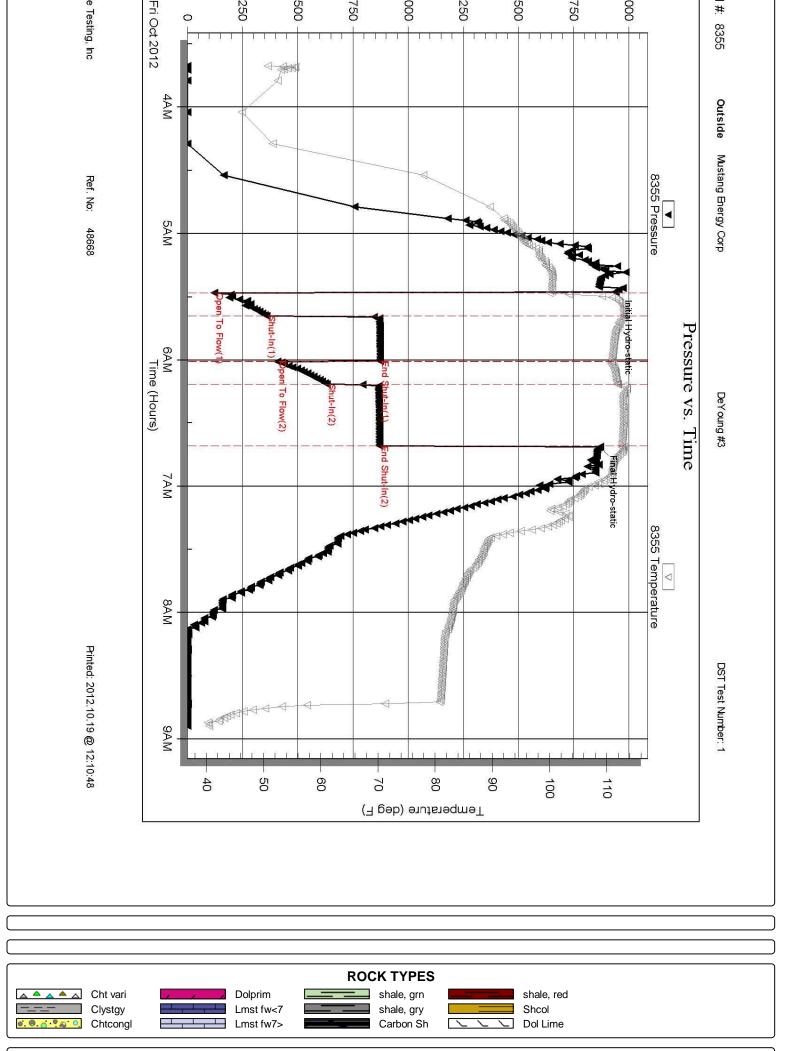
10-15-12	Spud, set 8 5/8" surface casing to 208' w/ 150 sxs Common, 2%gel,
	3%CC. Plug down 12:00PM. kick off 8:00PM. WOC 8 hrs

- 10-16-12 1602', drilling
- 10-17-12 2690', drilling, displace at 2900'
- 10-18-12 3500', drilling, short trip, trip out for DST # 1 3782'-3827' Arbuckle
- 10-19-12 3827', finish DST # 1, RTD 3990', mini short trip, CCH, logs
- 10-20-12 3990', lay down drill pipe, run 5 ½"production casing, rig down

	DST # 1 TEST	SUMMAR	łΥ					
	DRILL STEM TES	TREP	ORT					
	Mustang Energy Corp	11 10s 21w Graham						
ESTING , INC.	Box 1211 Hays KS 67601			DeYoung #3				
				Job Ticket: 48668 DST#:1				
	ATTN: Rod Brin		Tes	t Start: 20	012.10.19 @ 03:40:23			
GENERAL INFORMATION:								
Formation: Arbuckle Deviated: No Whipstock: Time Tool Opened: 05:28:08 Time Test Ended: 08:53:38	ft (KB)		Tes	ter: I	Con∨entional Bottom Hole (Initial) Paul Simpson 58			
Interval: 3782.00 ft (KB) To 382			Ref	erence 🖯				
Total Depth: 3825.00 ft (KB) (TVE Hole Diameter: 7.88 inchesHole C				KB t	2255.00 ft (CF) o GR/CF: 5.00 ft			
Serial #: 8355 Outside Press@RunDepth: 631.37 psig @ Start Date: 2012.10.19 Start Time: 03:40:28 TEST COMMENT: IF 10 strong blow I IS- 30no blow FF-10 strong blow FSI- 30 no blow	End Date: End Time:	2012.10.19 08:53:37	Capacity Last Cali Time On Time Off	ib.: Btm: 2	8000.00 psig 2012.10.19 2012.10.19 @ 05:27:38 2012.10.19 @ 06:41:23			
Pressure vs. Tim			Ρ	RESSUF	RESUMMARY			
Construction of the second sec	Transporters Tr	Time (Min.) 0 1 12 33 33 44 74 74	Pressure (psig) 1937.68 122.52 358.26 872.49 408.13 631.37 869.47 1870.27	Temp (deg F) 100.46 99.97 112.98 110.90 110.80 111.87 112.61 112.99	Open To Flow (1) Shut-In(1) End Shut-In(1) Open To Flow (2) Shut-In(2) End Shut-In(2)			
Recovery				-	s Rates			
Length (ft) Description 720.00 emulisified oil water and m 700.00 emulsified oil and water 5' 0.00 Rw .42 @ 46 = 28000				Choke (i	nches) Pressure (psig) Gas Rate (Mc1/d)			
Trilobite Testing, Inc	Ref. No: 48668	<u> </u>		Printed:	2012.10.19 @ 12:10:46			



N



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MINERAL

FOSSIL ♦ Oolite

- ✓ Nodules P Pyrite
- Maricolored chert
- △ Chert White
- Z Euhed rhombs of dol or (

ACCESSORIES

OTHER SYMBOLS

Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)

TG, C1 - C5

1:240 Imperial

8 5/8" SURFACE CASING SET

TO 208' W/ 150 SXS COMMON,

2%GEL, 3%CC

- DST DST Int DST alt
- Core Curve Track #1 ROP (min/ft) Depth | Intervals Lithology Oil Shov DST **Geological Descriptions Cored Interval** DST Interval :240 Imperial ROP (min/ft) BEGIN 1' DRILL TIME FROM 3200' TO RTD 3200 in/ft) 5 BEGIN 10' WET AND DRY SAMPLES FROM 3250' TO RTD ____ **ANHYDRITE TOP ELOG 1744+523** 3210 ANHYDRITE BASE ELOG 1780+487

3220

3230

3240

3250

3260

3270

3280

3290

3300

3310

3320

3330

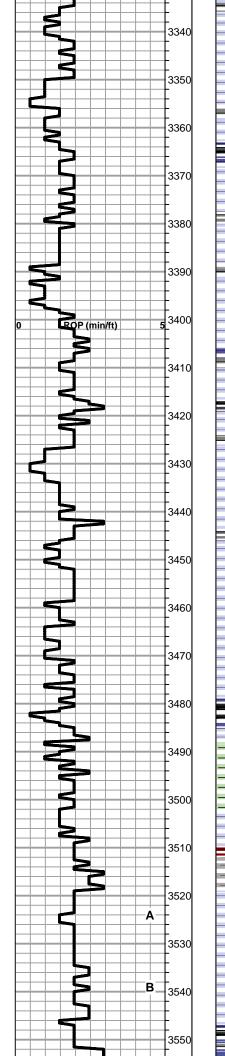
Lime, med brn-grayish brn, fnxln, fossiliferous in part

Lime, brn-gray, fnxln, shaley in part, slightly fossiliferous

- Shale, med-dark gray, calcareous in part
- Lime, tan-lt brn, fnxln-granular, slightly fossiliferous
- Lime, med-dark brn, fnxln, fusulinids

TOPEKA ELog 3270-1003

- Lime, It-med brn, fnxln, soft on crush with bedded chalk, fossil casts and fusulinids
- Lime, It-med brn, fnxln, slightly fossiliferous
- Lime, It-med brn, fnxln, bedded chalk in part
- Lime, It-med brn, fnxln-granular, chalk in part, NS
- Lime, med brn-med gray, fnxln-granular, fossiliferous
 - Shale, gray, calcareous
- Lime, It-med brn, fnxln-granular, chalk in part
- Lime, med brn, fnxln-granular, chalky, slightly fossiliferous



Lime, med brn, fnxln-granular, fossiliferous

Lime, It brn-gray, fnxln with sticky clumps of chalk

Lime, It-med brn, granular Shale, gray-black carbonaceous

Lime, It-med brn, fnxln with gray fossil remnants

Lime, crm-tan, fnxln-granular, bedded chalk in part, clean

Lime, crm-tan, fnxln-granular,slight chalk, slightly fossiliferous

Lime, It-med brn-It gray, fnxIn-granular, slightly chalky

Lime, It-med brn, fnxln

Lime, crm-lt brn, fnxln, slight chalk in part

Lime, It-med brn, fnxln-granular, NS

Lime, It-med brn, fnxln, trace of oil stain in fossiliferous lime

Lime, crm-lt brn, fnxln, bedded chalk in part

Lime, crm-lt brn, fnxln, bedded chalk in part

Lime, It-med brn, fnxln

HEEBNER SHALE ELog 3478-1211

Shale, black carbonaceous, fissile, blocky Lime, lt gray-med brn, fn-vfxln

Shale, It gray-It grayish green, soft blocky

TORONTO ELog 3503-1236

Lime, crm-lt brn, fn-vfxln, hard on crush, slight chalk, NS

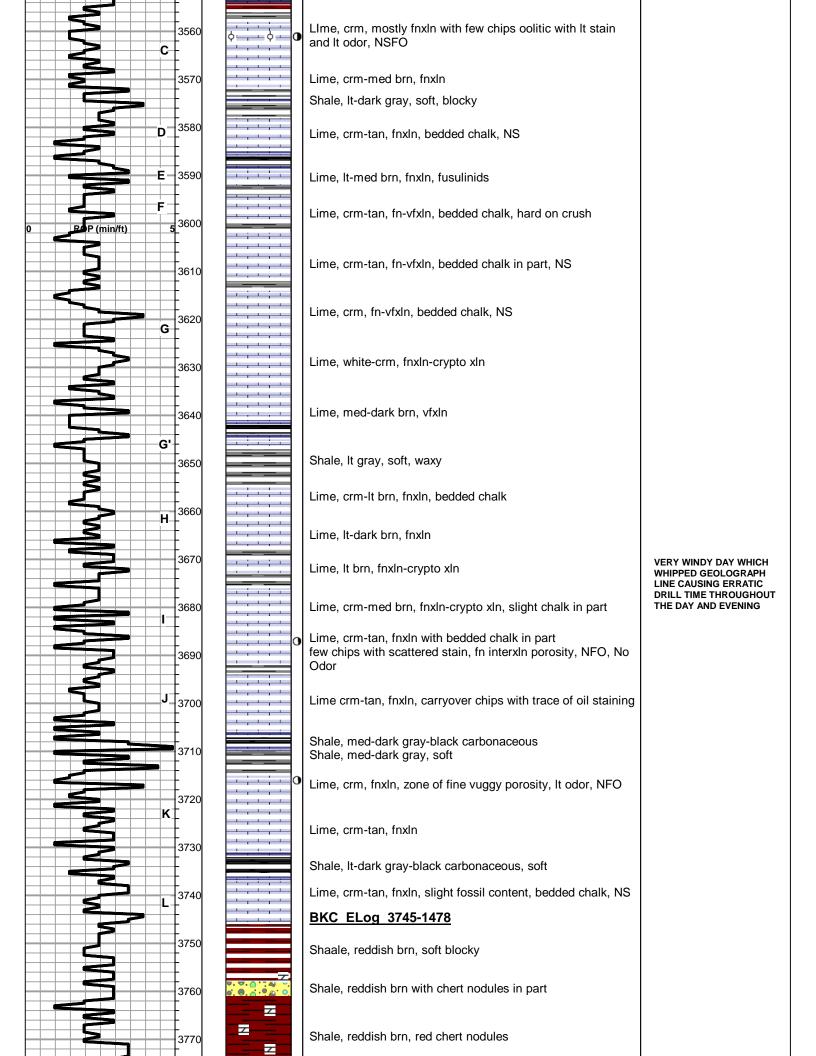
Shale, reddish brn

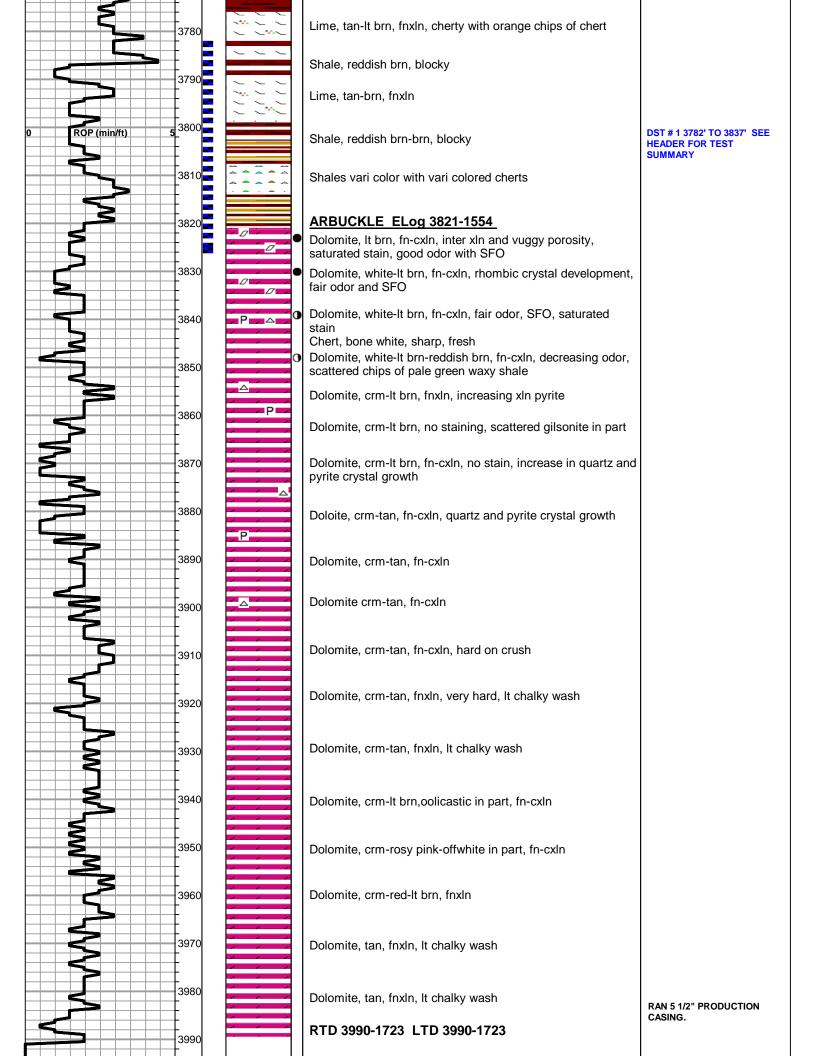
LANSING ELog 3519-1252

Lime, crm, fn-vfxln, bedded chalk , white chert, fresh, sharp, $\ensuremath{\mathsf{NS}}$

Lime, crm-offwhtie, fn-vfxln, bedded chalk, scattered fossils, $\ensuremath{\mathsf{NS}}$

Shale, gray-black carbonaceous





QUALI	FY OILWI	ELL CEMENTING, INC. Tax I.D.# 20-2886107	
Phone 785-483-2025 Cell 785-324-1041		O. Box 32 Russell, KS 67665 No. 607	7
Date 10-15-12 11	Twp. Range	County State On Location Finish	m
	noneo Si lo esta a te be	Location Dales Sto YBD W to 390 125 Win	to
10000 De Yours	Well No. 3	Owner	stanck
Contractor W WW Rig 6		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as list	ted.
Type Job Goston	108	Charge misting En car	BMOT
Hole Size	T.D. 200	To marine moring	27/103
Csg. Drg	Depth 208	Street	W YOU
Tbg. Size	Depth	City State	tractor
Tool	Depth	The above was done to satisfaction and supervision of owner agent or con	
Cement Left in Csg. 2017	Shoe Joint 2071	Cement Amount Ordered 30 3900 Floge	
Meas Line	Displace 1/ 15/2		LAUD
EQUIPMENT		Common / 5'C	Ca Milling
Pumptrk Helper		Poz. Mix	<u> </u>
Bulktrk Driver	4	Gel.	oa iao
Bulktrk Dg No. Driver Dong		Calcium O	
JOB SERVICES & REMARKS		Hulls	rientz
Remarks: 19 Visions of each doese doese doese of the lister YTLAUG		LAUD Salton 2'Y TIJAUO broved anothingo meaning bos protections	
Rat Hole		Flowseal of entroperation of entroperation of an analysis electronic to a	1301 101 130 UNE
Mouse Hole		Kol-Seal	no thus
Centralizers		Mud CLR 48)
Baskets		CFL-117 or CD110 CAF 38	.191 WC 3)
D/V or Port Collar		Sand Sand Sand Sandhag CYTLAUC daw poloenne o ne o lo	ivo gn
Commental Gundate		Handling 153	al rious
Abiophi		Mileage	ng to r
HITTIACKO CONCIDENTO TTICK	RUC of 1803 Monthly ment to	FLOAT EQUIPMENT	maket
ages or conditions resulting frem chemical action in camerits		Guide Shoe	ene nes. E
		Centralizer	008060
Individual by it to be the from defects to material and workness- ced in the manner provided and intended. CUALTY'S obligation too for credit, at its option, for any merchanolas which is deter of QUALTY AND NO OTHER WARRANTY IS ARELICARLE VOLUDING ANY WARRANTY AS TO MERCHANTABILITY OR and only tempoy with regard to any detective marchanolae and and only tempoy with regard to any detective marchanolae and and only tempoy with regard to any detective marchanolae and and only tempoy with regard to any detective marchanolae and		PRIME REPORT TO A CONTRACT OF THE PRESENCE THE PRESENCE TO A CONTRACT OF THE PRESENCE OF THE P	nunder 11. dicte
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		Float Shoe	Denin
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