

#### Kansas Corporation Commission Oil & Gas Conservation Division

#### 1164458

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: 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 #	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? Yes No  If yes, show depth set: Feet  If Alternate II completion, cement circulated from: sx cmt
If Workover/Re-entry: Old Well Info as follows:	
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 TwpS. R
☐ ENHR         Permit #:           ☐ GSW         Permit #:	County: Permit #:
Spud Date or 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



Operator Name:			Lease Name: _			_ Well #:	
Sec Twp	S. R	East West	County:				
time tool open and clo	osed, flowing and shu es if gas to surface te	d base of formations pen t-in pressures, whether s st, along with final chart( well site report.	hut-in pressure read	ched static level,	hydrostatic press	sures, bottom h	ole temperature, fluid
Drill Stem Tests Taker (Attach Additional		Yes No	L	og Formatio	n (Top), Depth an	d Datum	Sample
Samples Sent to Geo	ological Survey	Yes No	Nam	е		Тор	Datum
Cores Taken Electric Log Run Electric Log Submitte (If no, Submit Copy	d Electronically	Yes No Yes No Yes No					
List All E. Logs Run:							
		Report all strings set-o		ermediate, producti			
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
		ADDITIONAL	. CEMENTING / SQL	 JEEZE RECORD			
Purpose:  —— Perforate  —— Protect Casing	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives			
Plug Back TD Plug Off Zone							
	DEDEODATI	ON DECORD - Dridge Dive	o Cot/Time	Acid Fro	cture, Shot, Cemen	t Squaaza Baaar	4
Shots Per Foot	Specify I	ON RECORD - Bridge Plug Footage of Each Interval Per	forated		mount and Kind of Ma		Depth
TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run:	Yes No		
Date of First, Resumed	Production, SWD or EN	HR. Producing Meth		Gas Lift C	Other (Explain)		
Estimated Production Per 24 Hours	Oil	Bbls. Gas	Mcf Wat	er B	ols. (	Gas-Oil Ratio	Gravity
DISPOSITI	ON OF GAS:		METHOD OF COMPLE	ETION:		PRODUCTIO	ON INTERVAL:
Vented Solo		Open Hole	Perf. Dually	Comp. Cor	nmingled		
(If vented, Su	bmit ACO-18.)	Othor (Specify)	(Submit )	400-5) (Sub	mit ACO-4)		



**TOOL DIAGRAM** 

H&D Exploration LLC

28-18s-13w Barton, KS

PO Box 387

Doonan A #3

DST#: 1

Hoisington KS 67544

Job Ticket: 52301

ATTN: Gerald Achatz/Kurt

6.75 inches

Test Start: 2013.04.19 @ 10:59:19

Tool Information

Drill Pipe: Heavy Wt. Pipe: Length:

Length: 3056.00 ft Diameter:

3.80 inches Volume: 42.87 bbl 0.00 inches Volume: 0.00 bbl 2.25 inches Volume:

Tool Weight:

2200.00 lb

Drill Collar:

Length:

0.00 ft Diameter: 0.00 ft Diameter:

0.00 bbl

Weight set on Packer: 25000.00 lb Weight to Pull Loose: 55000.00 lb

Drill Pipe Above KB:

25.00 ft

Total Volume: 42.87 bbl

Tool Chased

3.00 ft

Depth to Top Packer: Depth to Bottom Packer:

Interval between Packers:

3060.00 ft

String Weight: Initial 38000.00 lb Final 38000.00 lb

ft 70.00 ft 99.00 ft

2

Diameter:

Number of Packers:

Tool Comments:

Tool Length:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3032.00		
Shut In Tool	5.00			3037.00		
Hydraulic tool	5.00			3042.00		
Jars	5.00			3047.00		
Safety Joint	3.00			3050.00		
Packer	5.00			3055.00	29.00	Bottom Of Top Packer
Packer	5.00			3060.00		
Stubb	1.00			3061.00		
Recorder	0.00	6773	Outside	3061.00		
Recorder	0.00	6755	Inside	3061.00		
Change Over Sub	1.00			3062.00		
Drill Pipe	31.00			3093.00		
Change Over Sub	1.00			3094.00		
Perforations	33.00			3127.00		
Bullnose	3.00			3130.00	70.00	Bottom Packers & Anchor

Total Tool Length:

99.00



**FLUID SUMMARY** 

H&D Exploration LLC

28-18s-13w Barton, KS

PO Box 387 Hoisington KS 67544 Doonan A #3 Job Ticket: 52301

ft

bbl

psig

DST#: 1

ATTN: Gerald Achatz/ Kurt

Test Start: 2013.04.19 @ 10:59:19

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight:

Viscosity: Water Loss:

Resistivity: Salinity:

7200.00 ppm 0.02 inches

9.00 lb/gal

45.00 sec/qt

0.00 ohm.m

8.78 in<sup>3</sup>

Cushion Type:

Cushion Length: Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

deg API

Water Salinity: 42000 ppm

Filter Cake: Recovery Information

Recovery Table

Volume Length ft Description bbl 0.281 WM 45% w ater 55% mud 20.00

Total Length:

20.00 ft

Total Volume:

0.281 bbl

Num Fluid Samples: 0

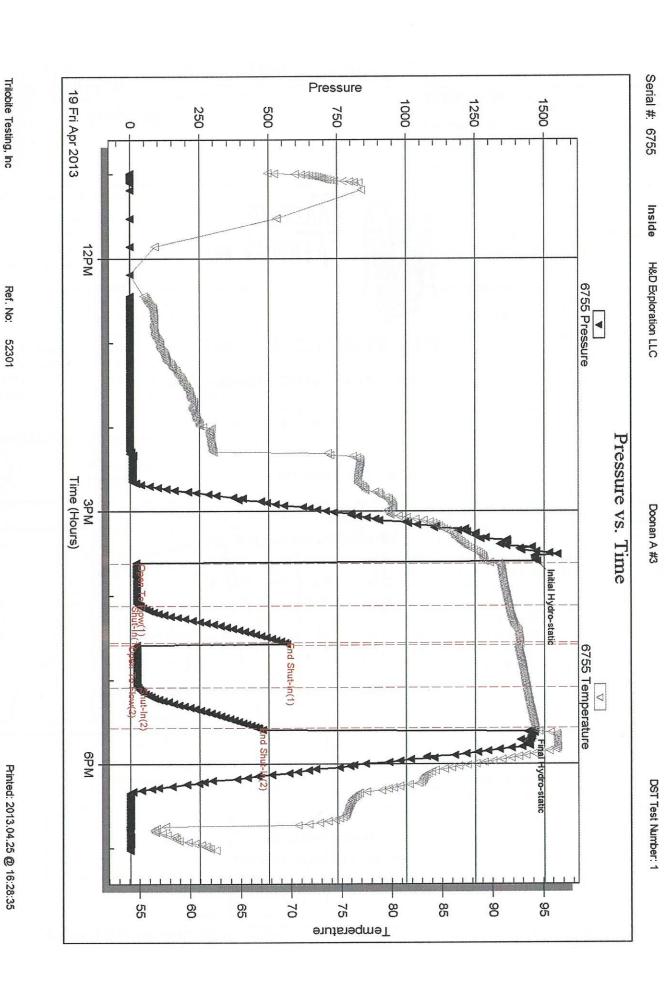
Laboratory Name:

Recovery Comments:

Num Gas Bombs:

Laboratory Location:

Serial #:





TOOL DIAGRAM

H&D Exploration LLC

28-18s-13w Barton, KS

PO Box 387 Hoisington KS 67544 Doonan A #3 Job Ticket: 52302

DST#: 2

ATTN: Gerald Achatz/ Kurt

Test Start: 2013.04.20 @ 11:09:48

Tool Information

Drill Pipe: Heavy Wt. Pipe: Length: Drill Collar:

Length: 3183.00 ft Diameter: Length:

Drill Pipe Above KB: Depth to Top Packer:

Depth to Bottom Packer: Interval between Packers:

Tool Length:

Number of Packers:

17.00 ft 3195.00 ft

95.00 ft 124.00 ft

Diameter:

0.00 ft Diameter:

0.00 ft Diameter:

44.65 bbl 3.80 inches Volume: 0.00 inches Volume: 0.00 bbl 2.25 inches Volume: 0.00 bbl

44.65 bbl Total Volume:

Tool Weight:

2200.00 lb Weight set on Packer: 25000.00 lb Weight to Pull Loose: 60000.00 lb

Tool Chased 2.00 ft String Weight: Initial 38000.00 lb

Final 38000.00 lb

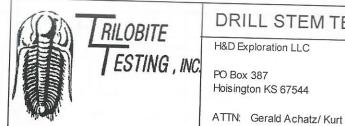
2 6.75 inches

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3167.00		
Shut In Tool	5.00			3172.00		
Hydraulic tool	5.00			3177.00		
Jars	5.00			3182.00		
Safety Joint	3.00			3185.00		
Packer	5.00			3190.00	29.00	Bottom Of Top Packer
Packer	5.00			3195.00		
Stubb	1.00			3196.00		
Recorder	0.00	8676	Outside	3196.00		
Recorder	0.00	6755	Inside	3196.00		
Change Over Sub	0.50			3196.50		
Drill Pipe	62.00			3258.50		
Change Over Sub	0.50			3259.00		
Perforations	28.00			3287.00		
Bullnose	3.00			3290.00	95.00	Bottom Packers & Anchor

**Total Tool Length:** 

124.00



28-18s-13w Barton, KS

Doonan A #3

Job Ticket: 52302

DST#: 2

FLUID SUMMARY

Test Start: 2013.04.20 @ 11:09:48

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight:

9.00 lb/gal 45.00 sec/qt

Viscosity: Water Loss:

8.78 in<sup>3</sup> 0.00 ohm.m

Resistivity: Salinity: Filter Cake:

7200.00 ppm 0.02 inches Cushion Type:

Cushion Length:

Cushion Volume: Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

deg API ppm

ft bbl

psig

**Recovery Information** 

Recovery Table

Length Description Volume bbl 30.00 MUD 0.421

Total Length:

30.00 ft

Total Volume:

0.421 bbl

Num Fluid Samples: 0

Laboratory Name:

Num Gas Bombs:

Serial #:

Recovery Comments:

Laboratory Location:

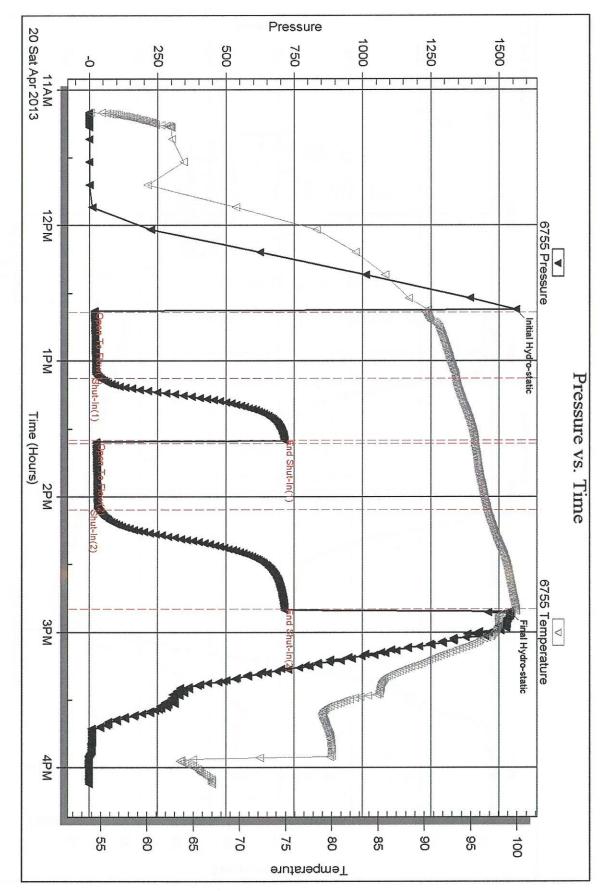
Trilobite Testing, Inc

Ref. No: 52302

Printed: 2013.04.25 @ 16:27:51

Inside

Doonan A #3





TOOL DIAGRAM

H&D Exploration LLC

28-18s-13w Barton, KS

PO Box 387

Doonan A #3 Job Ticket: 52303

Hoisington KS 67544

ATTN: Gerald Achatz/ Kurt

Test Start: 2013.04.20 @ 23:22:44

Tool Information

Drill Pipe: Heavy Wt. Pipe: Length: Drill Collar:

Length: 3277.00 ft Diameter: 0.00 ft Diameter: Length: 0.00 ft Diameter:

45.97 bbl 3.80 inches Volume: 0.00 inches Volume: 2.25 inches Volume:

Total Volume:

0.00 bbl 0.00 bbl 45.97 bbl Tool Weight:

2200.00 lb Weight set on Packer: 25000.00 lb

Tool Chased

Weight to Pull Loose: 54000.00 lb 2.00 ft

String Weight: Initial 39000.00 lb

Final 39000.00 lb

Drill Pipe Above KB:

26.00 ft 3280.00 ft

Depth to Top Packer: Depth to Bottom Packer: 39.00 ft Interval between Packers:

Tool Length: Number of Packers: 68.00 ft 2

Diameter:

6.75 inches

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3252.00		
Shut In Tool	5.00			3257.00		
Hydraulic tool	5.00			3262.00		
Jars	5.00			3267.00		
Safety Joint	3.00			3270.00		
Packer	5.00		EAST-WHEREAST TRANSPORTED	3275.00	29.00	Bottom Of Top Packer
Packer	5.00			3280.00		
Stubb	1.00			3281.00		
Recorder	0.00	6773	Outside	3281.00		
Recorder	0.00	6755	Inside	3281.00		
Perforations	35.00			3316.00		
Bullnose	3.00			3319.00	39.00	Bottom Packers & Anchor

**Total Tool Length:** 

Trilobite Testing, Inc

68.00

Ref. No: 52303

Printed: 2013.04.25 @ 16:27:14



**FLUID SUMMARY** 

H&D Exploration LLC

28-18s-13w Barton, KS

Doonan A #3

PO Box 387 Hoisington KS 67544

Job Ticket: 52303

Serial #:

DST#: 3

ATTN: Gerald Achatz/Kurt

Test Start: 2013.04.20 @ 23:22:44

Mud and Cushion Information

Mud Type: Gel Chem

9.00 lb/gal

Mud Weight:

45.00 sec/qt

Viscosity: Water Loss:

10.77 in<sup>3</sup>

Resistivity:

0.00 ohm.m 8300.00 ppm

Salinity: Filter Cake:

0.02 inches

Cushion Type:

Cushion Length:

ft bbl

Oil API: Water Salinity: deg API ppm

Cushion Volume: Gas Cushion Type:

Gas Cushion Pressure:

psig

#### **Recovery Information**

#### Recovery Table

Length ft	Description	Volume bbl
2.00	OIL	0.028
18.00	O,M 5%oil 95% mud	0.252

Total Length:

20.00 ft

Total Volume:

0.280 bbl

Num Fluid Samples: 0 Laboratory Name: Recovery Comments: Num Gas Bombs:

Laboratory Location:

Trilobite Testing, Inc

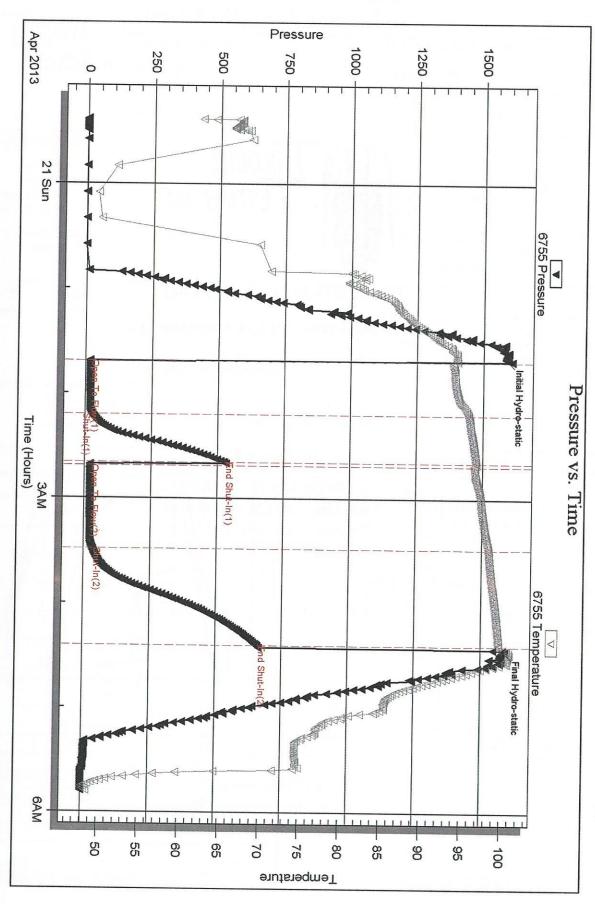
Ref. No: 52303

Printed: 2013.04.25 @ 16:27:15

Serial #: 6755

Inside

H&D Exploration LLC





**TOOL DIAGRAM** 

H&D Exploration LLC

PO Box 387 Hoisington KS 67544

Doonan A #3

Job Ticket: 52304

DST#: 4

ATTN: Gerald Achatz/ Kurt

Test Start: 2013.04.21 @ 10:56:02

28-18s-13w Barton, KS

Tool Information

Drill Pipe: Length: 3277.00 ft Diameter: Heavy Wt. Pipe: Length: Drill Collar:

Length:

0.00 ft Diameter: 0.00 ft Diameter:

22.00 ft

3284.00 ft

3.80 inches Volume: 0.00 inches Volume: 2.25 inches Volume: Total Volume:

0.00 bbl 0.00 bbl 45.97 bbl

45.97 bbl

Tool Weight: 2200.00 lb Weight set on Packer: 25000.00 lb Weight to Pull Loose: 55000.00 lb Tool Chased

3.00 ft String Weight: Initial 39000.00 lb Final 39000.00 lb

Depth to Top Packer: Depth to Bottom Packer: Interval between Packers:

Drill Pipe Above KB:

ft 43.00 ft 72.00 ft

Tool Length: Number of Packers:

2 Diameter:

6.75 inches

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3256.00	Alouani Lenguis	
Shut In Tool	5.00			3261.00		
Hydraulic tool	5.00			3266.00		
Jars	5.00			3271.00		
Safety Joint	3.00			3274.00		
Packer	5.00			3279.00	20.00	
Packer	5.00			3284.00	29.00	Bottom Of Top Packer
Stubb	1.00			3285.00		
Recorder	0.00	6773	Outside	3285.00		
Recorder	0.00	6755	Inside	3285.00		
Change Over Sub	0.50	0,00	maide	3285.50		
Orill Pipe	31.00					
Change Over Sub	0.50			3316.50		
Perforations	7.00			3317.00		
Bullnose	3.00			3324.00 3327.00	43.00	Bottom Packers & Anchor

Total Tool Length:

72.00



**FLUID SUMMARY** 

H&D Exploration LLC

28-18s-13w Barton, KS

Doonan A #3

PO Box 387 Hoisington KS 67544

Job Ticket: 52304

DST#: 4

ATTN: Gerald Achatz/ Kurt

Test Start: 2013.04.21 @ 10:56:02

Oil API:

#### Mud and Cushion Information

Mud Type: Gel Chem

9.00 lb/gal

50.00 sec/qt

Viscosity:

Mud Weight:

11.59 in<sup>3</sup> Water Loss: 0.00 ohm.m Resistivity:

Salinity: Filter Cake: 10.50 ppm 0.02 inches Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type: Gas Cushion Pressure: ft

Water Salinity: bbl

deg API ppm

psig

#### **Recovery Information**

#### Recovery Table

Length ft	Description	Volume bbl
2.00	OIL	0.028
3.00	M.O 40%mud 60%oil	0.042
30.00	O,M 5%oil 95%mud	0.421

Total Length:

35.00 ft

Total Volume:

0.491 bbl

Num Fluid Samples: 0

Num Gas Bombs:

Serial #:

Laboratory Name:

Recovery Comments:

Laboratory Location:

Printed: 2013.04.25 @ 16:26:38

90

95

6

70

80

75

85

Temperature (deg F)

# QUALITY OILWELL CEMENTING, INC. Federal Tax I.D.# 20-2886107

Phone 785-483-2025 Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 0010

Cell 703-324-1041								Finish	
4-22-13	Sec.	Twp.	Range	10	County	State	On Location	Sinish FM	
Date	An	150		Location	on la serie	Non-Ki-	S to GORA,	IE UN	
Lease Donan	' H"	3 3 2 2 7	Well No. 3	11.2.3.3	Owner				
2000	not-	12	Manufacture of the Control of the Co		Maria la sua	oliwell Cementing,	ant computing equipmen	t and furnish	
Type Job Production		That et la se	o jenakir	cementer an	nd helper to assist	owner or contractor to d	o work as listed.		
Hole Size		T.D.	35001	4 1 1 1 1 1 1 1	Charge To	D Explore	A SKY		
- Control of the Cont	Ew.	Depth	3367	a spira	Street				
Tbg. Size		Depth			City		State		
Tool		Depth			The above wa	as done to satisfaction	n and supervision of owne	r agent or contractor.	
Cement Left in Csg.	1	Shoe J	oint		Cement Am	ount Ordered	O Sy (philmon	KAN ZOLF ZI	
Meas Line		Displac	e 81 34	BLS	Creative.	- Con an	must Cieni 45		
	EQUIPN	IENT		4 174	Common				
Pumptrk 5 No. Ceme Helpe	nter	ick			Poz. Mix				
Bulktrk No. Driver	A Contract	the		, No. 4, 11 Aug.	Gel.				
Bulktrk O No. Driver	Kic	4			Calcium				
JOB SE	RVICES	& REMA	ARKS		Hulls				
Remarks:		Nath ret			Salt				
Rat Hole	4.51	y - Pitter		100000	Flowseal				
Mouse Hole	57				Kol-Seal				
Centralizers	7.9		3,15	731.14	Mud CLR 4	18	Secretary of the second of		
Baskets 3	- 300 000				CFL-117 or	CD110 CAF 38			
D/V or Port Collar	· Oph	bel	ent been		Sand				
Charles of O	LEVA <sup>†</sup>	1500	col mi	J. Car	Handling				
48, olive Ra	mile.	wit	30 sx Ho	ed do	Mileage				
Cast Finis	Hel	75x	Come.	生物	420	FLOAT EQU	IPMENT		
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With Bes	of i	water		<u> </u>	Centralizer	8 turb	3 5		
Rekard + Irold.		*			Baskets	9			
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							Та		
11/2			1 /	18.20			Discoul		
X Signature	ecan.	in the			.   100   100   100		Total Charg	е	

## QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025 Cell 785-324-1041 Home Office P.O. Box 32 Russell, KS 67665

10 661

Finish On Location State County Twp. Range Sec. 41.50 AM Location Owner Well No. To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish 廿0 cementer and helper to assist owner or contractor to do work as listed. Type Job Charge T.D. Hole Size To 10 mi Depth Street Csg. State Depth City Tbg. Size The above was done to satisfaction and supervision of owner agent or contractor. Depth Tool Cement Amount Ordered Cement Left in Csg. Shoe Joint Meas Line Displace EQUIPMENT Common Cementer Helper No. Poz. Mix Pumptrk No. Driver Gel. Bulktrk Driver Driver Calcium Bulktrk Driver JOB SERVICES & REMARKS Hulls Remarks: Comont Salt Flowseal Rat Hole Kol-Seal Mouse Hole Mud CLR 48 Centralizers CFL-117 or CD110 CAF 38 Baskets Sand D/V or Port Collar Handling Mileage FLOAT EQUIPMENT Guide Shoe Centralizer Baskets **AFU Inserts** Float Shoe Latch Down Pumptrk Charge Mileage Tax Discount Total Charge X Signature



Geologist's Report

Company: <u>H&D Exploration</u>

Lease: Doonan A #3 Field: <u>Lake Barton</u>

Location: NE-SW-SE-NE

Sec: <u>28</u> Twsp: <u>185</u> Rge: <u>13W</u>

County: State: <u>Kansas</u>

GL: <u>1806</u> KB: <u>1814</u>

Contractor: <u>Southwind Drilling Co., Rig #</u>

Spud: <u>4/15/13</u> Comp: <u>4/22/13</u>

RTD: <u>3500'</u> LTD: <u>3502</u>

Mud Up: <u>2500'</u> Type Mud: <u>Chemical/Displaced</u>

Samples Saved From: <u>2800'to RTD</u>
Drilling Time Kept From: <u>2800' To RTD</u>
Samples Examined From: <u>2800' To RTD</u>
Geological Supervision From: <u>3100' to RTD</u>

Geologist on Well: K. Talbott

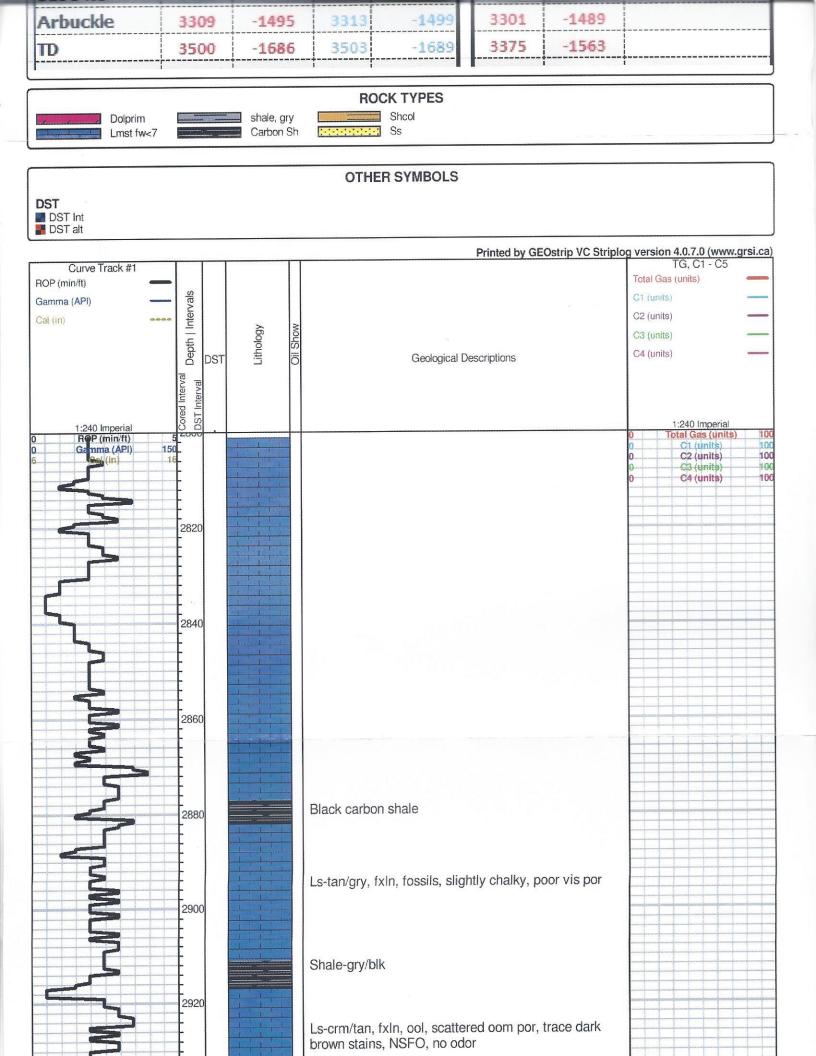
Surface Casing: 8 5/8" @ 450'

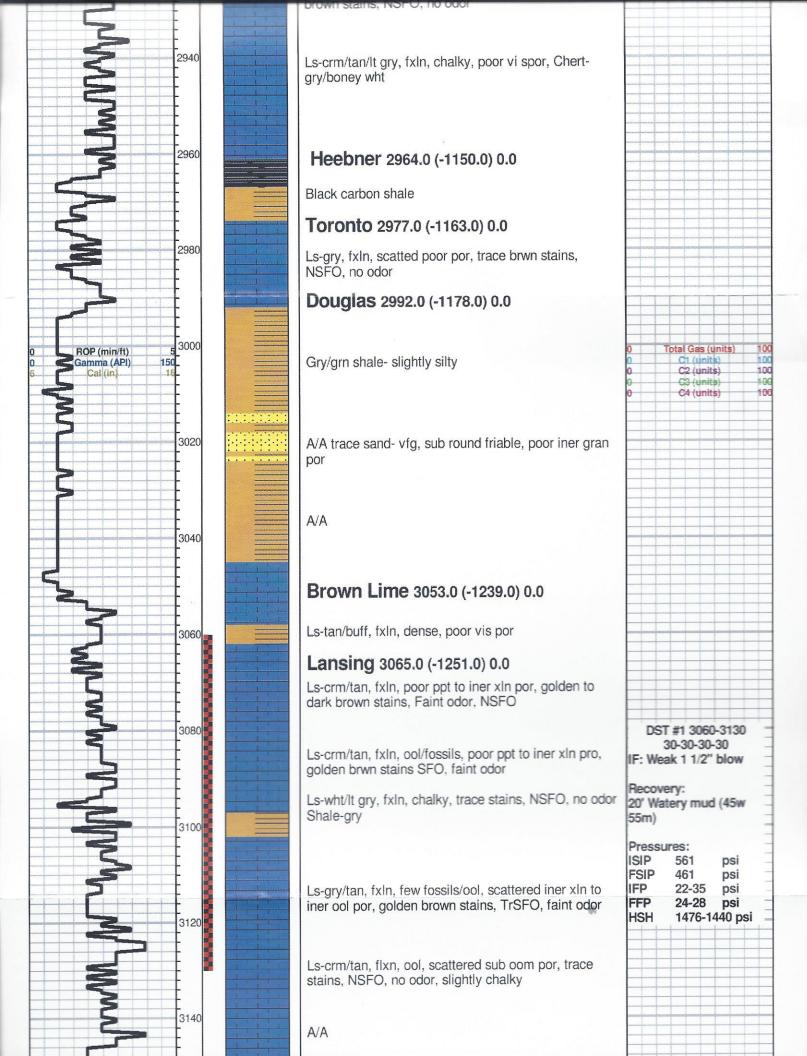
Production: <u>5 1/2"@</u>

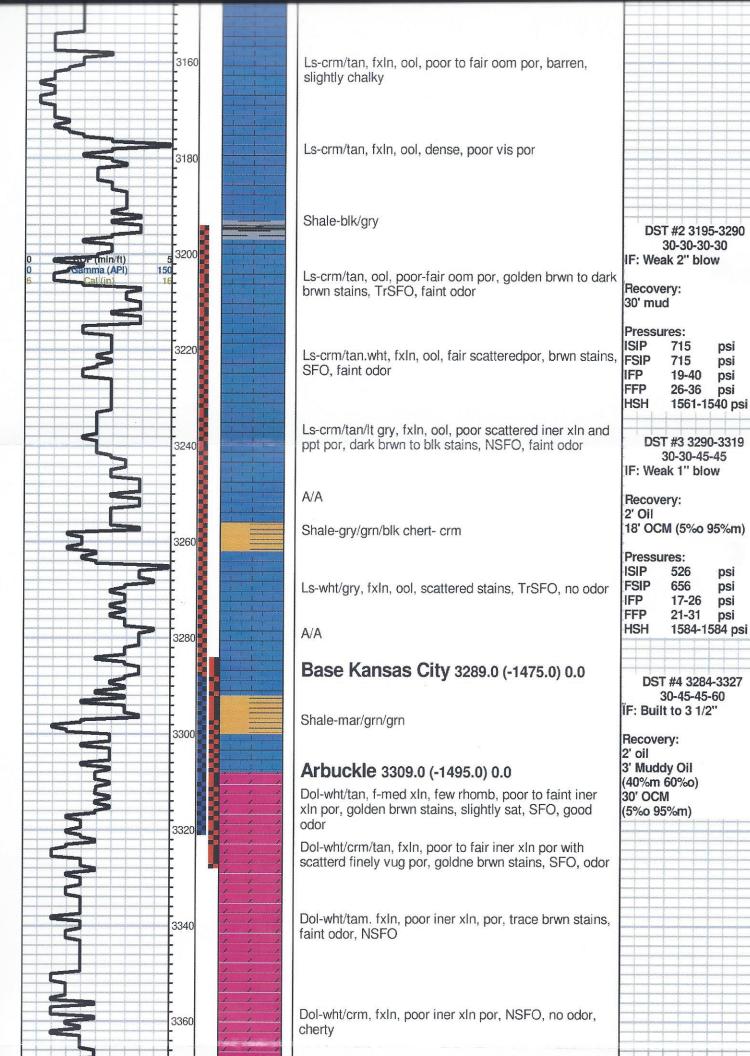
Logs: CNL/CDL, MEL, DIL

	H&D Exploration						
		Doonan	'A' #3				
	NE-SW-	SE-SE Se	c <b>28-T1</b>	8 <b>S</b> -R13W			
КВ	1814						
Formation	Sample	Sub-sea	E-Log	Sub- Sea			
Anhydrite			708	1106			
Base Anhy.			729	1085			
Heebner	2964	-1150	2966	-1152			
Toronto	2977	-1163	2976	-1162			
Brown Lime	3053	-1239	3056				
Lansing	3065	-1251	3068	-1254			

	H&D Exploration							
	Doonan	'A' #1						
NE-NW-	NE-NW-SE-SE Sec.28-T18S-R13W							
1812								
Log	Sub-sea							
705	1107							
731	1081							
2960	-1148							
2969	-1157							
3048	-1236							
3060	-1248							







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