

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

ORIGINAL

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

OPERATOR: License # 3180
Name: Deutsch Oil Company
Address 1: 8100 E. 22nd Street North Bldg. 600
Address 2: _____
City: Wichita State: Ks Zip: 67226 + _____
Contact Person: Kent Deutsch
Phone: (316) 681-3567
CONTRACTOR: License # 34233
Name: Maverick Drilling LLC
Wellsite Geologist: Kent Deutsch
Purchaser: _____

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil WSW SWD S1OW
 Gas D&A ENHR SIGW
 OG GSW Temp. Abd.
 CM (Coal Bed Methane)
 Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:
Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____
 Deepening Re-perf. Conv. to ENHR Conv. to SWD
 Conv. to GSW
 Plug Back: _____ Plug Back Total Depth _____
 Commingled Permit #: _____
 Dual Completion Permit #: _____
 SWD Permit #: _____
 ENHR Permit #: _____
 GSW Permit #: _____

03-08-11 03-14-11 03/14/11
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 151-22372-0000
Spot Description: 110 ft. North of
S/2_NE_NE Sec. 24 Twp. 26 S. R. 12 East West
4,390 Feet from North / South Line of Section
660 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW

County: Pratt
Lease Name: Hoover Well #: 3-24

Field Name: _____
Producing Formation: _____

Elevation: Ground: 1863' Kelly Bushing: 1872'

Total Depth: 4170 Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: 280' Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____
feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 120000 ppm Fluid volume: 880 bbls

Dewatering method used: Water Truck

Location of fluid disposal if hauled offsite: _____

Operator Name: Pratt Well Service

Lease Name: Watson License #: 5893

Quarter _____ Sec. 7 Twp. 27 S. R. 13 East West

County: Pratt Permit #: D-19334-1

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature: [Signature]

Title: Owner Date: April 17, 2011

KCC Office Use ONLY

Letter of Confidentiality Received
Date: _____

Confidential Release Date: _____

Wireline Log Received

Geologist Report Received

UIC Distribution

ALT II III Approved by: PLA Dlg Date: 2/27/12

Operator Name: Deutsch Oil Company Lease Name: Hoover Well #: 3-24
 Sec. 24 Twp. 26 S. R. 12 East West County: Pratt

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 <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: Dual Induction, Neutron/Density	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Heebner</td> <td>3438</td> <td>-1566</td> </tr> <tr> <td>Lansing</td> <td>3638</td> <td>-1766</td> </tr> <tr> <td>Mississippi</td> <td>4070</td> <td>-2198</td> </tr> </table>	Name	Top	Datum	Heebner	3438	-1566	Lansing	3638	-1766	Mississippi	4070	-2198
Name	Top	Datum											
Heebner	3438	-1566											
Lansing	3638	-1766											
Mississippi	4070	-2198											

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, 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
Surface	12 1/4"	8 5/8"	23#	280'	60/40 poz	185 sx	2% gel 3% cc 1/4# coloflake

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth
		<div style="border: 2px solid black; padding: 10px; transform: rotate(-2deg);"> RECEIVED FEB 21 2012 KCC WICHITA </div>	

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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BASIC

energy services, L.P.

TREATMENT REPORT

Customer <i>Deutsch oil</i>	Lease No.	Date <i>3-14-11</i>	
Lease <i>4000pk</i>	Well # <i>3-24</i>	County <i>Pratt</i>	State <i>KS</i>
Field Order # <i>3415</i>	Station <i>Pratt Lc</i>	Casing	Depth
Type Job <i>CNW P.T.A</i>	Formation	Legal Description <i>24-26-17</i>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
Depth	Depth	From	To	Pre Pad	Max		5 Min.	
Volume	Volume	From	To	Pad	Min		10 Min.	
Max Press	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative	Station Manager <i>DAVE SCOTT</i>	Treater <i>Robert J. ...</i>
Service Units <i>19866 33708 20920 19960 19918</i>		
Driver Names <i>Sullivan Malson Dyer</i>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>11:00</i>					<i>cur bar fully ready P.T.A.</i>
<i>11:55</i>			<i>5</i>	<i>3</i>	<i>Plug @ 600' w/50sk</i>
<i>12:00</i>			<i>12 1/2</i>	<i>4</i>	<i>mix @ 50sk 60/40 for</i>
			<i>2</i>		<i>Disp</i>
					<i>Plug @ 300' w/50sk</i>
<i>12:17</i>			<i>5</i>	<i>3</i>	<i>same</i>
<i>12:23</i>			<i>12 1/2</i>	<i>4</i>	<i>mix @ 50sk 60/40 for</i>
			<i>1 1/2</i>		<i>Disp</i>
<i>12:40</i>			<i>5</i>	<i>3</i>	<i>plug TOP 60' w/20sk</i>
			<i>7</i>		<i>plug RH w/30sk</i>
			<i>5</i>		<i>plug MH w/20sk</i>
<i>12:55</i>					<i>SOB complete</i>

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Thank you

Customer Deutsch Oil Company	Lease No. Hoover	Date 3-8-11
Lease 3623	Well # 3-204	
Field Order # 3623	Station Pratt, Kansas	Casing 23lb
Type Job C.N.W. - Surface	Depth 280 Feet	County Pratt
	Formation	State Kansas
		Legal Description 2F-265-12W

PIPE DATA		PERFORATING DATA		MATERIALS USED		TREATMENT RESUME		
Casing Size 2 7/8"	Tubing Size 2 3/8"	Shots/Ft 185	From 280	ACT 60/40 Poz	with	RATE	PRESS	ISIP
Depth 280 Feet	Depth	From 280	To 280	38	Calcium Chloride	5	5 Lb/stk	5 Min. cell flake
Volume 1.8 Bbl.	Volume	From 14.8	To 16.7	5.18	Gal.	1.2	1 CU.FT.	10 Min. 5H.
Max Press 300 P.S.I.	Max Press	From	To			Avg		15 Min.
Well Connection Plug Container	Annulus Vol.	From	To			HHP Used		Annulus Pressure
Plug Depth 285 Feet	Packer Depth	From	To	Flush	17 Bbl. Fresh Water	(Gas) Volume		Total Load

Customer Representative Cecil Farmer	Station Manager David Scott	Treater Clarence R. Messick
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Service Units	37,216	19,903	19,905	19,959	21,010				
Driver Names	Messick	Mattal	Hunter						

Time P.M.	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
4:45					Trucks on location and hold safety meeting.
7:00					Maverick Drilling start to run 6 Joints new 23Lb/Ft. 8 5/8" casing.
8:15					Casing in well. Circulate for 5 minutes.
8:30	300			5	start Fresh Water Pre-Flush.
	300		10	5	start mixing 185 sacts 60/40 Poz cement
	-0-		50		stop pumping. Shut in well. Release wooden Plug Open Well.
	100			5	Start Fresh Water Displacement.
8:45	300		17		Plug down. Shut in well. circulated 5 sacts cement to the pit.
					Wash up pump truck.
9:30					Job Complete. Thank You. Clarence, Mike, Jr

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