

Kansas Corporation Commission Oil & Gas Conservation Division

1136971

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?
Operator:	
Well Name:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth: Onv. to ENHR	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 #:
GGW Fellill #.	
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

1136971

Operator Name:			Lease Name: _			Well #:	
Sec Twp	S. 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 Wireline Logs surveyed. Attach final geological well site report.							
Drill Stem Tests Taker (Attach Additional		Yes No		og Formation	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-		ermediate, producti		T 2 .	
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	I	1	
Purpose: —— Perforate —— Protect Casing —— Plug Back TD	Depth Top Bottom	Type of Cement	# Sacks Used Type and Percent Additives				
Plug Off Zone							
Shots Per Foot		DN RECORD - Bridge Plug Footage of Each Interval Perl			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 EN	HR. Producing Meth		Gas Lift C	other (Explain)		
Estimated Production Per 24 Hours	Oil I	Bbls. Gas	Mcf Wate	er Bl	ols. G	Gas-Oil Ratio	Gravity
DISPOSITI	ON OF GAS:	N.	METHOD OF COMPLE	ETION:		PRODUCTIO	DN INTERVAL:
Vented Solo	d Used on Lease	Open Hole	Perf. Dually		nmingled mit ACO-4)		
(If vented, Su	bmit ACO-18.)	Othor (Specify)	(Submit)	100-0) (SUDI	IIII ACO-4)		

Form	ACO1 - Well Completion
Operator	H & D Exploration LLC
Well Name	Mermis 1
Doc ID	1136971

Tops

Name	Тор	Datum
Anhydrite	1018	989
Base Anhydrite	10465	-8458
Heebner	3358	-1351
Toronto	3374	-1367
Douglas	3388	-1381
Brown Lime	3453	-1446
Lansing	3462	-1455
Base KC	3678	-1671
Conglomerate	3697	-1690
Viola	3718	-1711
Simpson Shale	3760	-1753
Arbuckle	3790	-1783
RTD	3917	-1910



Geologist's Report

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

Lease: <u>Mermis #1</u> Field: <u>Ash Creek</u>

Location: SE-SE-SW-NE (2462' FNL & 1341' FEL)

Sec: <u>2</u> Twsp: <u>215</u> Rge: <u>16W</u> County: <u>Pawnee</u> State: Kansas

GL: <u>1995'</u> KB: <u>2007'</u>

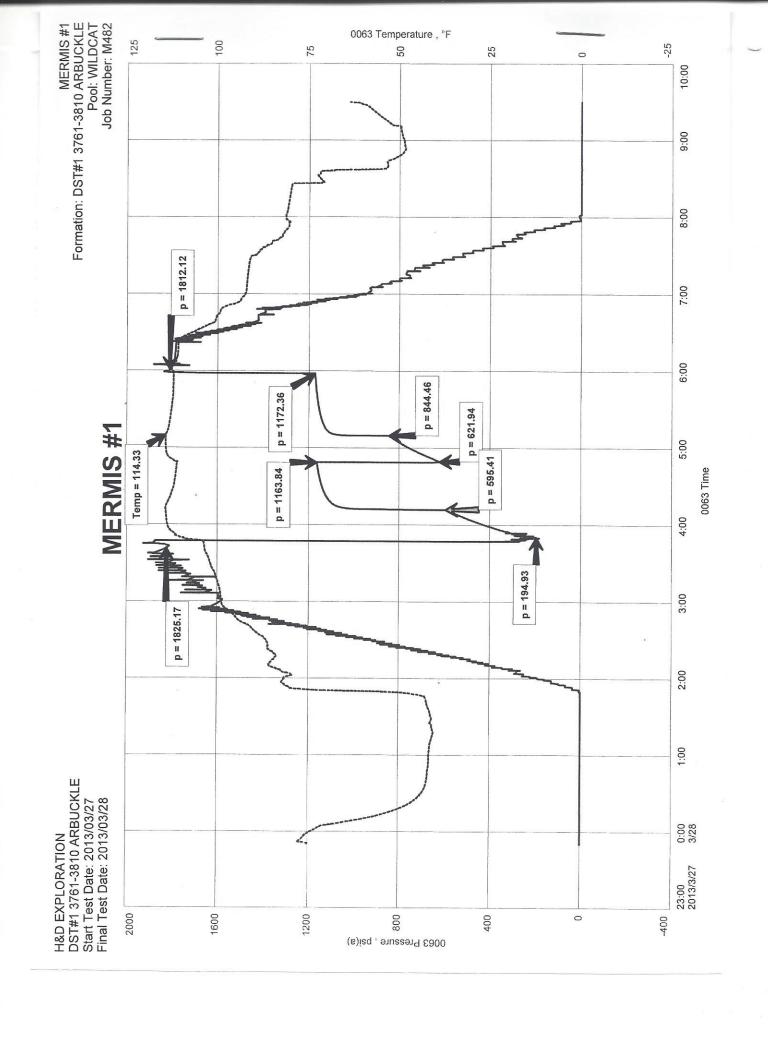


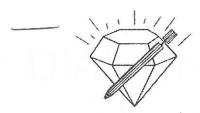
P.O. Box 157

HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313 Mrms1DST1

Page 1 of 2 Pages

Company H & D Exploration, LLC	Lease & Well No. Mermis No.	1
Elevation 2007 KB Formation Arbuckle	Effective Pay	
Date 3-28-13 Sec. 2 Twp. 21S Ra	nge <u>16W</u> County_Pawnee	
Test Approved By Kurt M. Talbott	Diamond Representative	Mike Cochran
Formation Test No. 1 Interval Tested from	3,761 ft. to 3,810 ft.	Total Depth3,810 ft
Packer Depth 3,756 ft. Size 6 3/4 in.		ft. Sizein.
Packer Depth 3,761 ft. Size 6 3/4 in.	таки зори,	it. Sizein. ft. Sizein.
Depth of Selective Zone Setft.	. deller beptil	
Top Recorder Depth (Inside) 3,743 ft.	Recorder Number	0063 Cap. 6,000 psi.
Bottom Recorder Depth (Outside) 3,807 ft.	Recorder Number_	POI.
Below Straddle Recorder Depthft.		Cappsi.
Drilling Contractor Southwind Drilling, Inc Rig 70		ft I.Din
Mud TypeChemicalViscosity52		ft I.Din.
Weight 9.5 Water Loss 10.0		3,729 ft I.D. 3 1/2 in.
Chlorides 7,600 P.P.M.		32 ft Tool Size 3 1/2-IF in
Jars: Make Sterling Serial Number 1		drill pipe Size 4 1/2-FH in.
Did Well Flow? No Reversed Out No		Bottom Choke Size 5/8 in.
		Tool Joint Size 4 1/2-XH in.
Blow: 1st Open: Strong, surface blow increasing. Off bottom of bucket in		
2nd Open: Strong surface blow increasing. Off bottom of bucket in		
Recovered 1,197 ft. of gassy, muddy water w/ a thick scum of oil =		
Recovered 567 ft. of gassy, heavy oil cut muddy water = 8.0684		
Recovered 315 ft. of $\frac{gassy, oil specked muddy water = 4.482450 bbls.}{1.482450 bbls.}$ Recovered 2,079 ft. of TOTAL FLUID = 29.584170 bbls.	(Gillid out. 2%-gas; 2%-oii; 81%-water; 15%-mud) Ch	llorides: 22,000 Ppm PH: 7.0 RW: .38 @ 65°
Recovered ft. of Recovered ft. of		
Recovered π. or Remarks Tool Sample Grind Out: 2%-gas; 90%-water; 8%-	mud w/ sama anata af ail	
remarks	mud w/ some spots of oil	
	1	
Time Set Packer(s)3:45 A.M Time Started off Bo	ttom 5:50 A.M. Maximur	m Temperature 114°
nitial Hydrostatic Pressure(
=	3)195 P.S.I. to (C)	595 P.S.I.
20	D)1164 P.S.I.	1.0.1.
-: 15. 5	E)622 P.S.I to (F)	844 P.S.I.
16	G)1172 P.S.I.	
Final Hydrostatic Pressure	10.10	



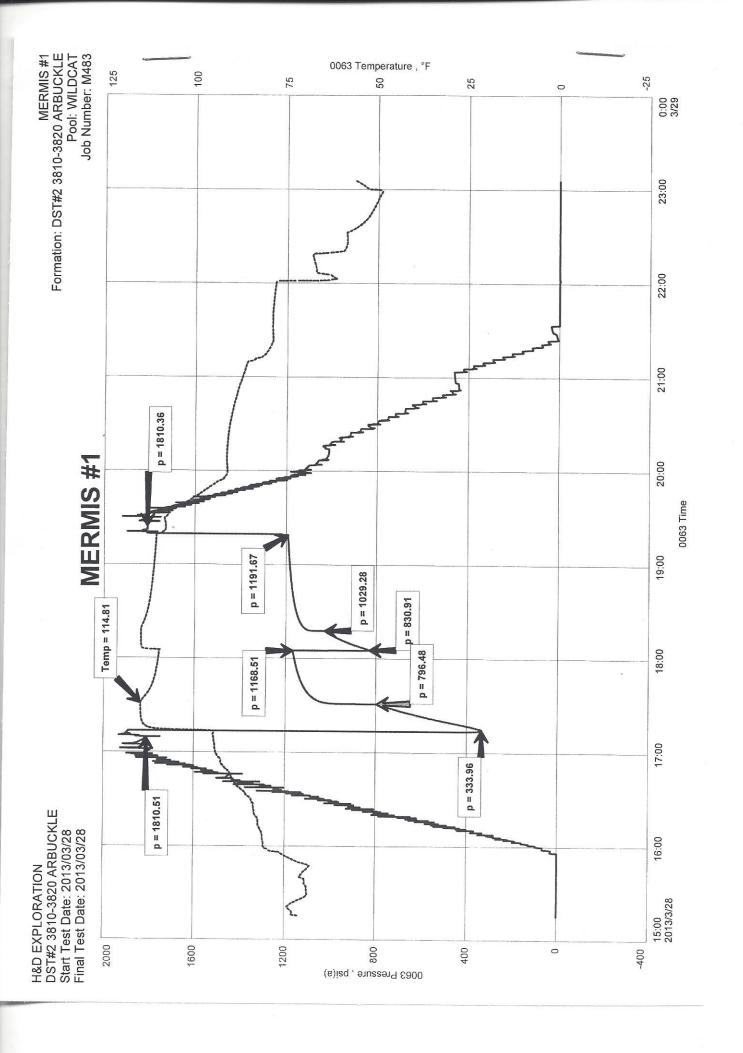


DIAMOND TESTING, LLC

P.O. Box 157 **HOISINGTON, KANSAS 67544**(620) 653-7550 • (800) 542-7313 Mrms1DST2

Page 1 of 2 Pages

Company H & D Exploration, LLC	Lease & Well No. Mermis No.	1			
Elevation 2007 KB Formation Arbuckle	Effective Pay	11100			
0.00.40	ange 16W County Pawnee				
Test Approved By Kurt M. Talbott	Diamond Representative	Miles Cookson			
Formation Test No. 2 Interval Tested from		Total Depth3,820_ft			
Packer Depth3,805 ft. Size6 3/4 in.		ft. Sizein.			
Packer Depthft. Size6 3/4 in.	Packer Depth	ft. Sizein.			
Depth of Selective Zone Setft.					
Top Recorder Depth (Inside) 3,792 ft.					
Bottom Recorder Depth (Outside) 3,817 ft.	Recorder Number	6884 Cap. 6,275 psi.			
Below Straddle Recorder Depthft.	Recorder Number	Cappsi.			
Drilling Contractor Southwind Drilling, Inc Rig 70	Drill Collar Length	<u>-</u> ft I.Din			
Mud Type Chemical Viscosity 60	Weight Pipe Length				
Weight Water Loss12.8	_cc. Drill Pipe Length	3,778 ft I.D. 3 1/2 in.			
Chlorides 11,100 P.P.M.		32 ft Tool Size 3 1/2-IF in			
Jars: Make Sterling Serial Number 1	Anchor Length	10 ft. Size4 1/2-FH in.			
Did Well Flow? No Reversed Out No		. Bottom Choke Size 5/8 in.			
	Main Hole Size7 7/8 in				
Blow: 1st Open: Strong, surface blow increasing. Off bottom of bucket	in 35 secs. Bottom of bucket blow back during				
2nd Open: Strong, surface blow increasing. Off bottom of bucke					
0.45					
Recovered 315 ft. of gas in pipe					
Recovered 2,275 ft. of gassy, muddy water w/ a few specks of oil = 32.373250 bbls. (Grind out: 2%-gas; 95%-water; 3%-mud) Chlorides: 22,000 Ppm PH: 7.0 RW: .36 @ 60°					
Recovered 2,275 ft. of TOTAL FLUID = 32.373250 bbls.					
Recoveredft. of					
Recoveredft. of					
Recoveredft. of					
Remarks Tool Sample Grind Out: 100%-gassy water					
545.04	7.00 D.M	44.50			
Time Set Packer(s) 5:15 P.M. Time Started off I	1011	um Temperature115°			
Initial Hydrostatic Pressure		706			
Initial Flow PeriodMinutes 20	(B) 334 P.S.I. to (C)	796 P.S.I.			
Initial Closed In PeriodMinutes30	(D) 1169 P.S.I.	4000			
Final Flow PeriodMinutes15	(E) 831 P.S.I to (F)	1029 P.S.I.			
Final Closed In PeriodMinutes60	(G) 1192 P.S.I.				
Final Hydroctatic Proceura	(H) 1810 PSI				



COMPANY_H & D Exploration, LLC

LEASE AND WELL NO ..

Mermis No.

SEC.

N

TWP.

21S

RGE.

16W

TEST NO. 2 DATE 3-28-1