

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

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 EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

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: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

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 Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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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

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				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
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)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

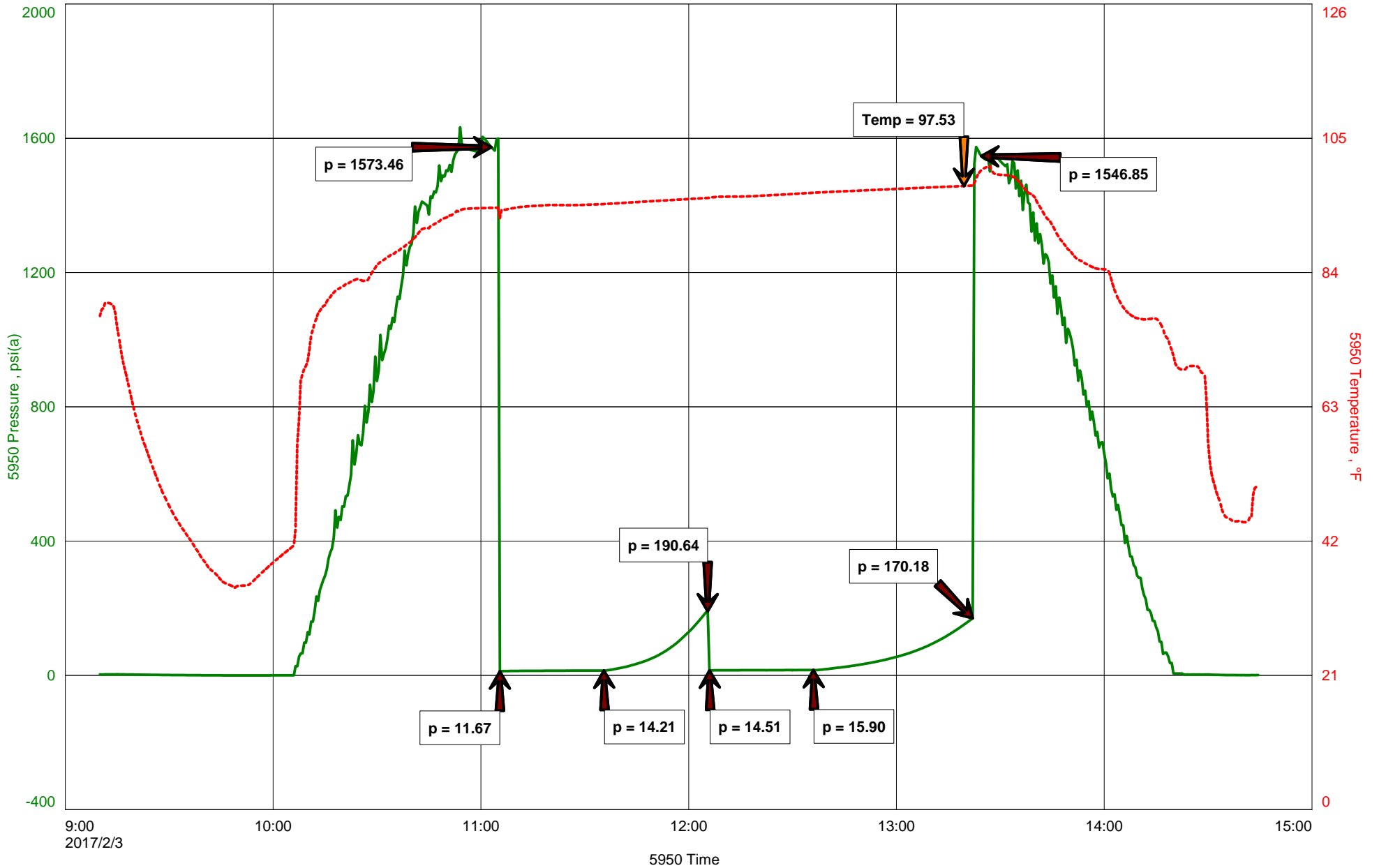
TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	H & D Exploration LLC
Well Name	HERRMAN 2
Doc ID	1353349

Tops

Name	Top	Datum
Anhydrite	790	1074
B Anhydrite	818	1046
Heebner	3104	-1240
Toronto	3116	-1252
Douglas	3134	-1270
Brown Lime	3199	-1335
Lansing	3213	-1349
BKC	3432	-1568
Conglomerate	3441	-1577
Arbuckle	3459	-1595
RTD	3800	-1936
LTD	3803	-1939

Herrman #2





Hoisington, Kansas

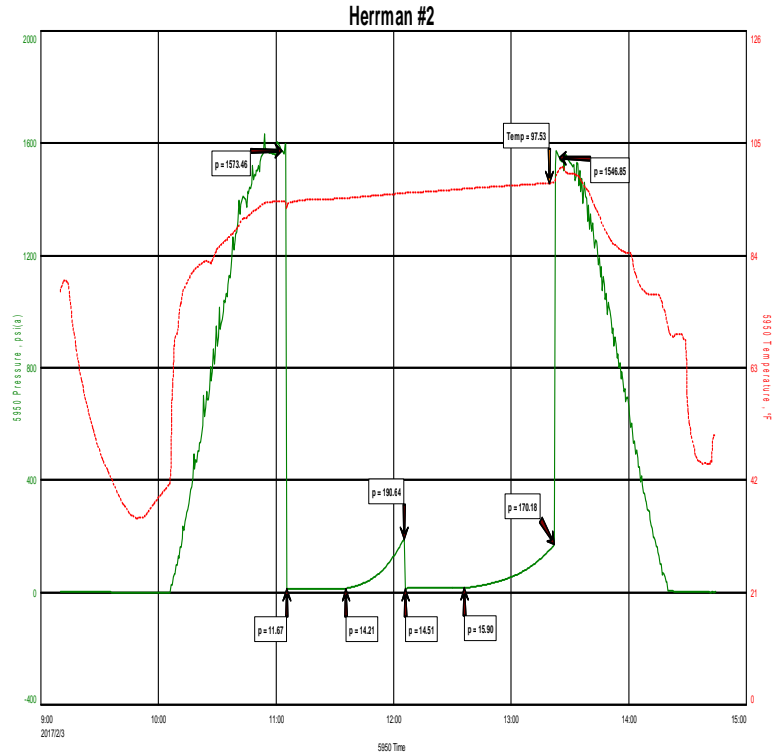
Michael Carroll
620-617-0368
carroll.dtlc@gmail.com

General Information

Company Name H&D Exploration LLC

Contact	Mitch Driscoll
Well Name	Herrman #2
Unique Well ID	Dst #1 Lans A-F 3200-3277'
Surface Location	Sec 8-19s-13w Barton County
Field	Walnut Creek
Well Type	Vertical
Test Type	Drill Stem Test
Well Operator	H&D Exploration LLC

Formation	Dst #1 Lans A-F 3200-3277'
Well Fluid Type	01 Oil
Test Purpose	Initial Test
Start Test Date	2017/02/03
Start Test Time	09:10:00
Final Test Time	14:45:00
Job Number	P0157
Report Date	2017/02/03
Prepared By	Michael Carroll



TEST RECOVERY

Remarks	Recovery:	8'	SLOCM 1%O	99%M
	Total Fluid:	8'		
	Tool Sample:	2%O	98%M	



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: HERRMAN#2DST#1

TIME ON: 0910
TIME OFF: 1445

Company H&D EXPLORATION LLC Lease & Well No. HERRMAN #2
Contractor SOUTHWIND DRILLING RIG 3 Charge to H&D EXPLORATION LLC
Elevation 1856 SUR Formation LAN A-F Effective Pay _____ Ft. Ticket No. P0157
Date 2-3-17 Sec. 8 Twp. _____ 19 S Range _____ 13 W County BARTON State KANSAS
Test Approved By JIM MUSGROVE Diamond Representative Michael Carroll

Formation Test No. 1 Interval Tested from 3200 ft. to 3277 ft. Total Depth 3277 ft.
Packer Depth 3195 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3200 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3188 ft. Recorder Number 5950 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 3267 ft. Recorder Number 0230 Cap. 5000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chem Viscosity 77 Drill Collar Length 0 ft. I.D. 2 1/4 in.
Weight 8.8 Water Loss 4.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 2000 P.P.M. Drill Pipe Length 3175 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number NA Test Tool Length 25 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 77(15A) ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WSB-BUILT TO 1/2" IN 30 MINUTES NOBB
2nd Open: WSB-BUILT TO 1/4" IN 30 MINUTES NOBB

Recovered 8 ft. of SLOCM 1%O 99%M
Recovered 8 ft. of TOTAL FLUID
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____

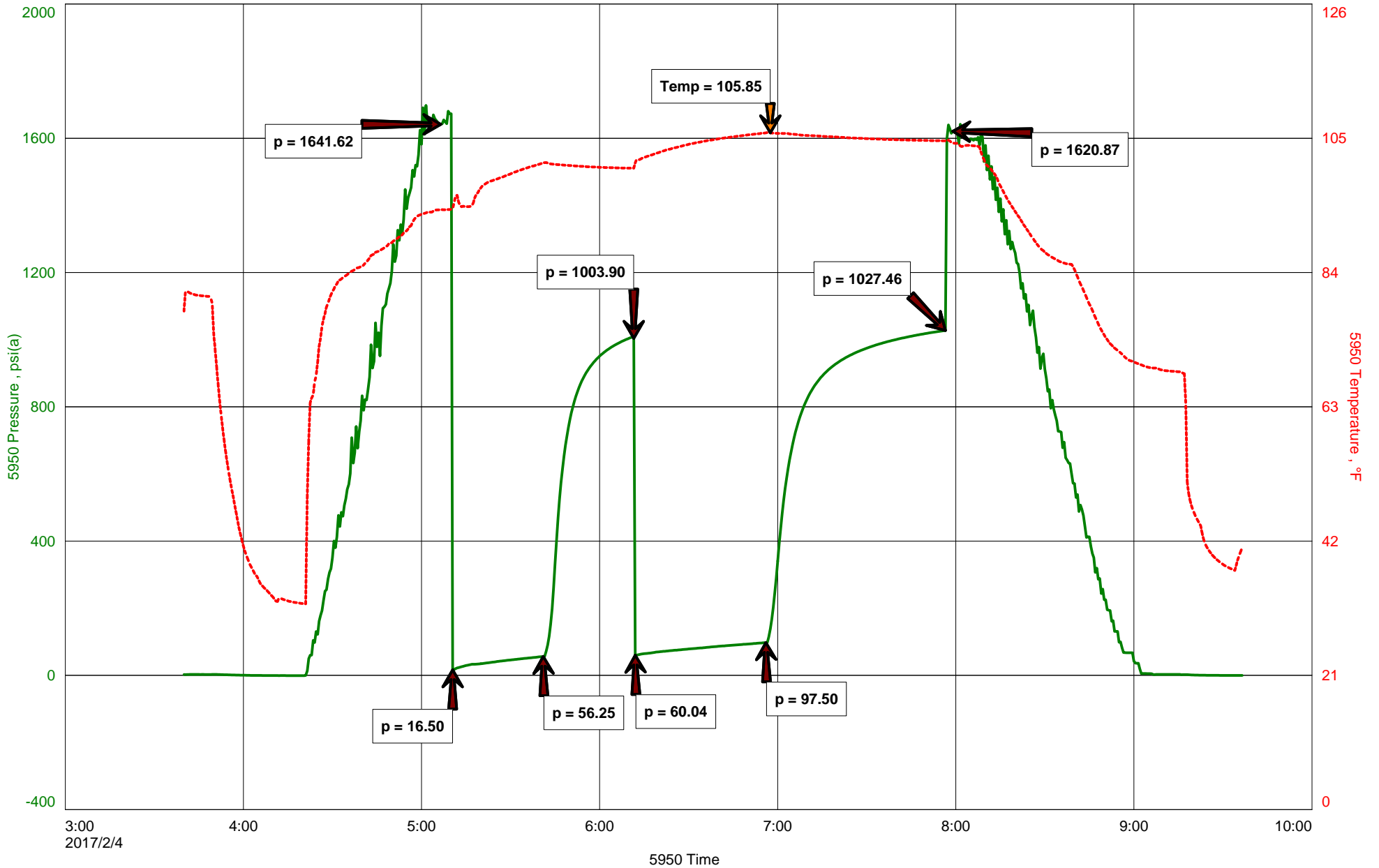
Remarks: <u>TOOL SAMPLE:2%O 98%M</u>	Price Job
	Other Charges
	Insurance
	Total

Time Set Packer(s) 11:05 A.M. A.M. P.M. Time Started Off Bottom 1:20 P.M. A.M. P.M. Maximum Temperature 98

Initial Hydrostatic Pressure..... (A) 1573 P.S.I.
Initial Flow Period..... Minutes 30 (B) 12 P.S.I. to (C) 14 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 191 P.S.I.
Final Flow Period..... Minutes 30 (E) 15 P.S.I. to (F) 16 P.S.I.
Final Closed In Period..... Minutes 45 (G) 170 P.S.I.
Final Hydrostatic Pressure..... (H) 1547 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

Herrman #2





Hoisington, Kansas

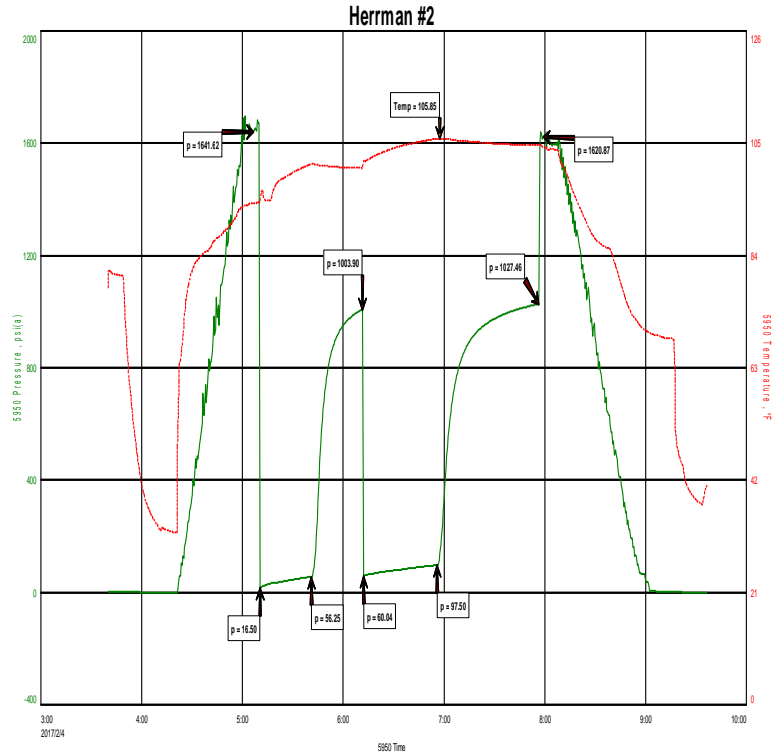
Michael Carroll
620-617-0368
carroll.dtlc@gmail.com

General Information

Company Name H&D Exploration LLC

Contact Mitch Driscoll
Well Name Herrman #2
Unique Well ID Dst #2 Lower Lans/KC 3325-3425'
Surface Location Sec 8-19s-13w Barton County
Field Walnut Creek
Well Type Vertical
Test Type Drill Stem Test
Well Operator H&D Exploration LLC

Formation Dst #2 Lower Lans/KC 3325-3425'
Well Fluid Type 01 Oil
Test Purpose Initial Test
Start Test Date 2017/02/04
Start Test Time 03:40:00
Final Test Time 09:35:00
Job Number P0158
Report Date 2017/02/04
Prepared By Michael Carroll



TEST RECOVERY

Remarks Recovery: 265' Gas In Pipe

50' OCWCM 20%O 25%W 55%M

126' SLOCMW 2%O 78%W 20%M

Total Fluid: 176'

Tool Sample: 2%O 98%W

Chlorides 70000 PPM
 RW .14 @ 60 Degrees
 PH 7



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: HERRMAN#2DST#2

TIME ON: 0340
TIME OFF: 0935

Company H&D EXPLORATION LLC Lease & Well No. HERRMAN #2
Contractor SOUTHWIND DRILLING RIG 3 Charge to H&D EXPLORATION LLC
Elevation 1856 SUR Formation LOWER LANS/KC Effective Pay _____ Ft. Ticket No. P0158
Date 2-4-17 Sec. 8 Twp. _____ 19 S Range _____ 13 W County BARTON State KANSAS
Test Approved By JIM MUSGROVE Diamond Representative Michael Carroll

Formation Test No. 2 Interval Tested from 3325 ft. to 3425 ft. Total Depth 3425 ft.
Packer Depth 3320 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3325 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3313 ft. Recorder Number 5950 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 3392 ft. Recorder Number 0230 Cap. 5000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chem Viscosity 51 Drill Collar Length 0 ft. I.D. 2 1/4 in.
Weight 9.2 Water Loss 4.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 5000 P.P.M. Drill Pipe Length 3300 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number NA Test Tool Length 25 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 100(38A) ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: 1/4" BLOW-BUILT TO BOB IN 19 MINUTES 30 SECONDS WSBB
2nd Open: 1" BLOW-BUILT TO BOB IN 15 MINUTES 1/4" BB

Recovered 265 ft. of GAS IN PIPE CHLORIDES 70000 PPM
Recovered 50 ft. of OCWCM 20%O 25%W 55%M RW .14 @ 60 DEGREES
Recovered 126 ft. of SLOCMW 2%O 78%W 20%M PH 7
Recovered 176 ft. of TOTAL FLUID

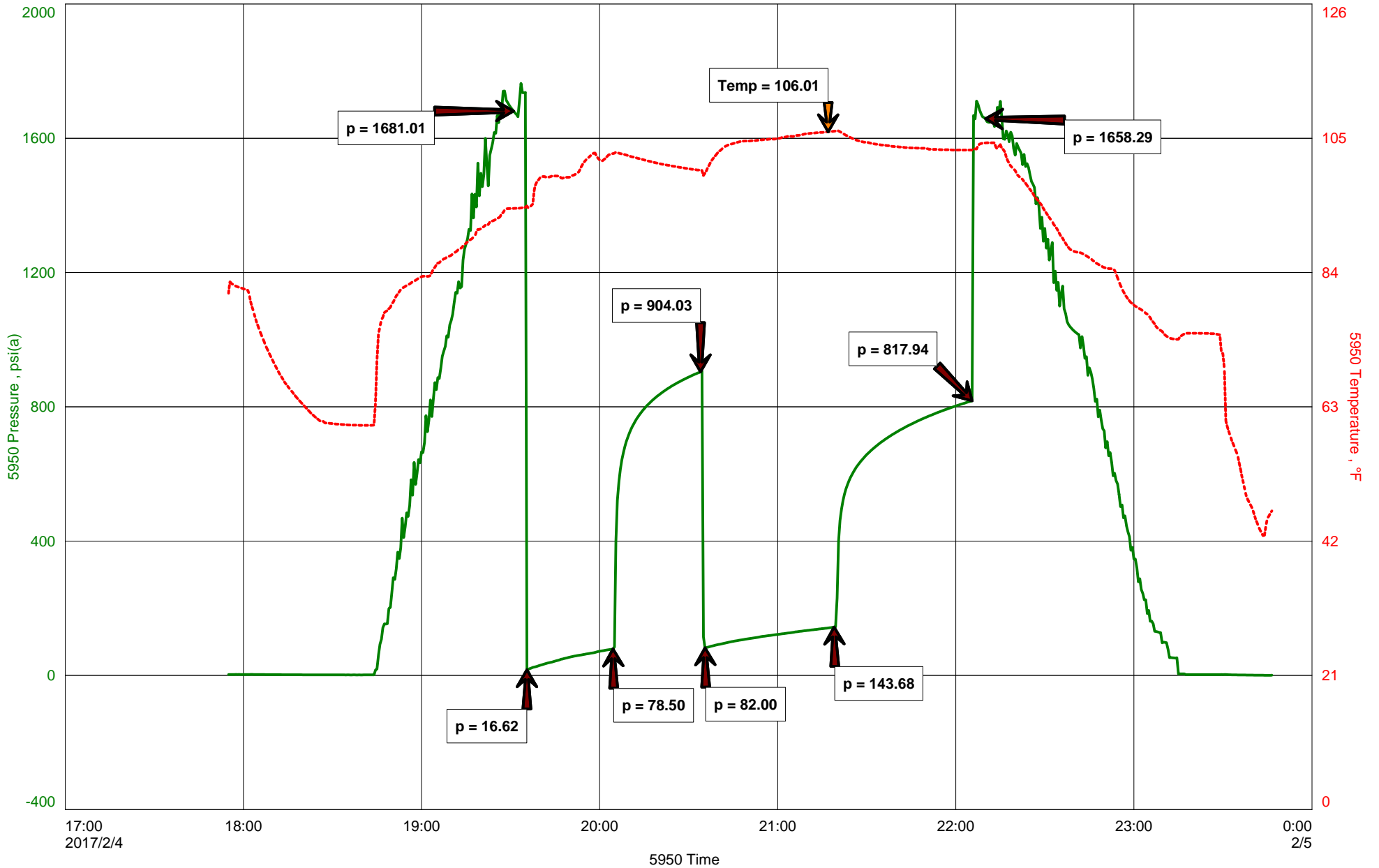
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: <u>TOOL SAMPLE:2%O 98%W</u>	Insurance
	Total

Time Set Packer(s) 5:10 A.M. A.M. P.M. Time Started Off Bottom 7:55 A.M. A.M. P.M. Maximum Temperature 106

Initial Hydrostatic Pressure..... (A) 1642 P.S.I.
Initial Flow Period..... Minutes 30 (B) 17 P.S.I. to (C) 56 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 1004 P.S.I.
Final Flow Period..... Minutes 45 (E) 60 P.S.I. to (F) 98 P.S.I.
Final Closed In Period..... Minutes 60 (G) 1027 P.S.I.
Final Hydrostatic Pressure..... (H) 1621 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

Herrman #2





Hoisington, Kansas

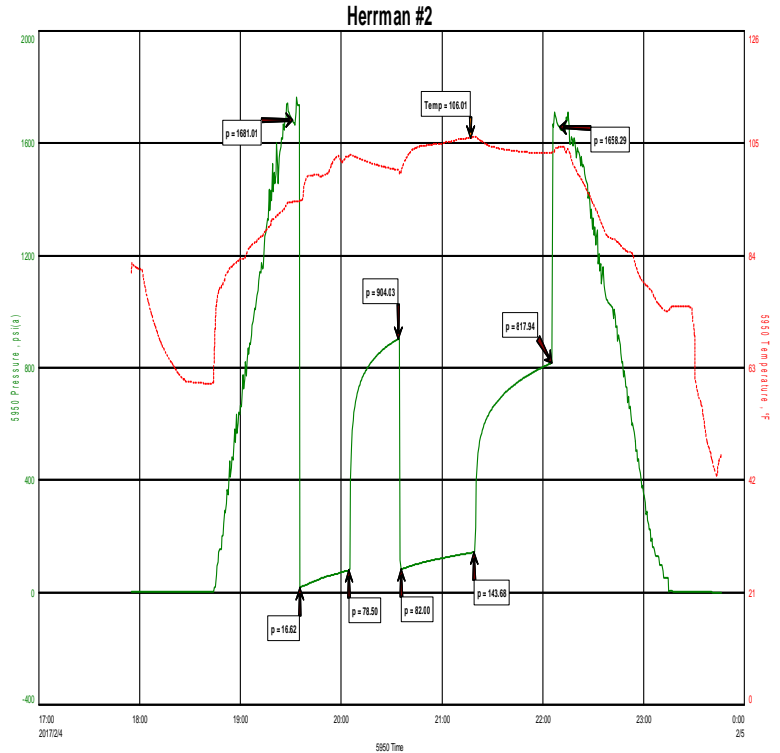
Michael Carroll
620-617-0368
carroll.dtlc@gmail.com

General Information

Company Name H&D Exploration LLC

Contact	Mitch Driscoll
Well Name	Herrman #2
Unique Well ID	Dst #3 Arbuckle 3421-3471'
Surface Location	Sec 8-19s-13w Barton County
Field	Walnut Creek
Well Type	Vertical
Test Type	Drill Stem Test
Well Operator	H&D Exploration LLC

Formation	Dst #3 Arbuckle 3421-3471'
Well Fluid Type	06 Water
Test Purpose	Initial Test
Start Test Date	2017/02/04
Start Test Time	17:55:00
Final Test Time	23:48:00
Job Number	P0159
Report Date	2017/02/04
Prepared By	Michael Carroll



TEST RECOVERY

Remarks Recovery: 280' OSMW 53%W 47%M >1%Oil

Total Fluid: 280'

Tool Sample: 76%W 24%M

Chlorides: 22000 PPM
RW .32 @ 60 Degrees
PH 7



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: HERRMAN#2DST#3

TIME ON: 1755
TIME OFF: 2348

Company H&D EXPLORATION LLC Lease & Well No. HERRMAN #2
Contractor SOUTHWIND DRILLING RIG 3 Charge to H&D EXPLORATION LLC
Elevation 1856 SUR Formation ARBUCKLE Effective Pay _____ Ft. Ticket No. P0159
Date 2-4-17 Sec. 8 Twp. _____ 19 S Range _____ 13 W County BARTON State KANSAS
Test Approved By JIM MUSGROVE Diamond Representative Michael Carroll

Formation Test No. 3 Interval Tested from 3421 ft. to 3471 ft. Total Depth 3471 ft.
Packer Depth 3416 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3421 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
Top Recorder Depth (Inside) 3409 ft. Recorder Number 5950 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 3457 ft. Recorder Number 0230 Cap. 5000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chem Viscosity 53 Drill Collar Length 0 ft. I.D. 2 1/4 in.
Weight 9.3 Water Loss 5.6 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 6000 P.P.M. Drill Pipe Length 3396 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number NA Test Tool Length 25 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 50(19A) ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: 1/2" BLOW-BUILT TO BOB IN 20 MINUTES **NOBB**
2nd Open: WSB-BUILT TO BOB IN 30 MINUTES **NOBB**

Recovered 280 ft. of OSMW 53%W 47%M >1%OIL CHLORIDES 22000 PPM
Recovered 280 ft. of TOTAL FLUID RW .32 @ 60 DEGREES
Recovered _____ ft. of _____ PH 7

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Recovered _____ ft. of _____	Insurance
Remarks: <u>TOOL SAMPLE:76%W 24%M</u>	Total

Time Set Packer(s) 7:33 P.M. A.M. P.M. Time Started Off Bottom 10:03 P.M. A.M. P.M. Maximum Temperature 106

Initial Hydrostatic Pressure..... (A) 1681 P.S.I.
Initial Flow Period..... Minutes 30 (B) 17 P.S.I. to (C) 79 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 904 P.S.I.
Final Flow Period..... Minutes 45 (E) 82 P.S.I. to (F) 144 P.S.I.
Final Closed In Period..... Minutes 45 (G) 818 P.S.I.
Final Hydrostatic Pressure..... (H) 1658 P.S.I.

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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. 3132

Date	1-31-17	Sec.	8	Twp.	19	Range	13	County	Barton	State	Ks	On Location		Finish	1:15 PM
Location 281 + 4 Jct, 5 to 50 Rd, 3E, 1 1/2 S															

Lease	Herrman	Well No.	2	Owner	w/Intro
Contractor	Southwind		3	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 listed.	
Type Job	Surface			Charge To	H + D Exploration
Hole Size	12 1/4"	T.D.	790'	Street	
Csg.	8 5/8"	Depth	790' 790'	City	
Tbg. Size		Depth		State	
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg.	20'	Shoe Joint	20'	Cement Amount Ordered	375 6 3/4 4% CC 2% Cel
Meas Line		Displace	49 BLS		1/2 # Flo-Seal

EQUIPMENT

Pumptrk	18	No.	Cementer	Dave	Common	225
			Helper		Poz. Mix	150
Bulktrk	4	No.	Driver	Nick	Gel.	7
			Driver		Calcium	16
Bulktrk	p.u.	No.	Driver	Rick		
			Driver			

JOB SERVICES & REMARKS

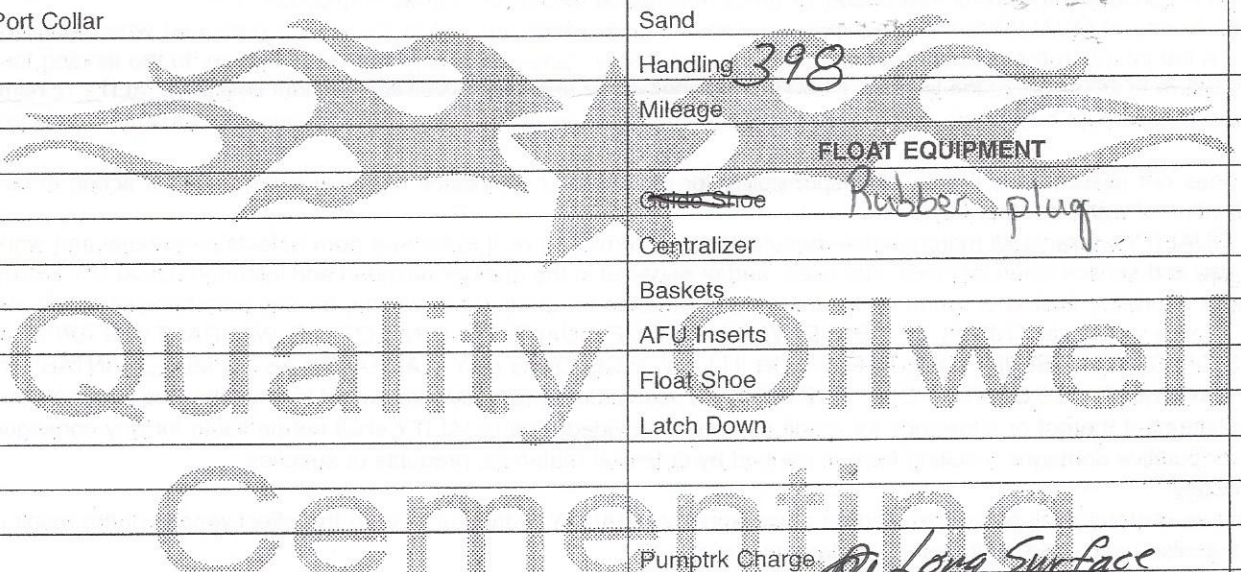
Remarks:	Cement did Circulate	Hulls	
Rat Hole		Salt	
Mouse Hole		Flowseal	187#
Centralizers		Kol-Seal	
Baskets		Mud CLR 48	
D/V or Port Collar		CFL-117 or CD110 CAF 38	
		Sand	
		Handling	398
		Mileage	

FLOAT EQUIPMENT

Guide Shoe	Rubber plug
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Pumptrk Charge	Pr Long Surface	Tax	
Mileage	15 min	Discount	
		Total Charge	

X Signature *Jay Miller*



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. 3137

Date	2-6-17	Sec.	8	Twp.	19	Range	13	County	Barton	State	Ks	On Location		Finish	7:00 AM
Lease								Location		281 + 4 1/2 - 5 to 50 Rd, 3E, 1					
Herrman								Well No.		2					
Contractor								Owner		15, w/s					
Southwind								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 listed.					
Type Job								Charge To		H + D Exploration					
Longstring								Cement Left in Csg.		12.84'					
Hole Size								Shoe Joint		12.84'					
7 7/8"								T.D.		3800'					
Csg.								Depth		3533.35'					
5 1/2" New 15.50								Street							
Tbg. Size								City		State					
Tool								The above was done to satisfaction and supervision of owner agent or contractor.							
Cement Left in Csg.								Cement Amount Ordered		180 Com 10% Salt 5% Gilsomite					
12.84'								500 gal mud Clear 48							
Meas Line								Displace		83 3/4 BLS					
EQUIPMENT								Common		180					
Pumptrk								Poz. Mix							
18 No. Cementer Helper								Gel.							
Bulktrk								Calcium							
9 No. Driver								Hulls							
Bulktrk								Salt		13					
p.m. No. Driver								Flowseal							
Rick								Kol-Seal		750 #					
JOB SERVICES & REMARKS								Mud CLR 48		500 gal					
Remarks:								CFL-117 or CD110 CAF 38							
Rat Hole								Sand							
Mouse Hole								Handling		200					
Centralizers								Mileage							
7, 9								FLOAT EQUIPMENT							
Baskets								Guide Shoe		Triplex shoe					
3, 5								Centralizer		2					
D/V or Port Collar								Baskets		2					
pipe on bottom break								AFU Inserts							
Circulation pump								Float Shoe							
500 gal mud								Latch Down		1					
Clear 48 plug								Pumptrk Charge		Prod string					
Rathole w/ 300' Hook +								Mileage		Min 15					
5 1/2" casing + mix								Tax							
150 sq Cement								Discount							
shut down wash pump + lines								Total Charge							
Released plug + Displaced w/ 83 3/4															
BLS H2O Released + held															
Lift pressure										600 #					
Land plug to										500 #					
Signature										Joy Miller					