



KANSAS CORPORATION COMMISSION 1118396
OIL & GAS CONSERVATION DIVISION

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 # _____

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 SIOW
- 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 #: _____

Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - _____

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

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1118396

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 Wire-line Logs surveyed. Attach final geological well site report.

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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> 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
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ 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

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other (Explain) _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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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> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	H & D Exploration LLC
Well Name	Dohrman 1
Doc ID	1118396

All Electric Logs Run

Computer Processed Interpretation
Borehole Compensated Sonic Log
Dual Induction Log
Dual Compensated Porosity Log
Microsistivity Log
Sonic Cement Bond Log

Form	ACO1 - Well Completion
Operator	H & D Exploration LLC
Well Name	Dohrman 1
Doc ID	1118396

Tops

Name	Top	Datum
Anhydrite	508	-1275
Base Anhydrite	526	-1256
Heebner	2776	-993
Toronto	2793	-1010
Douglas	2807	-1024
Brown Lime	2894	-1111
Lansing	2911	-1128
Base Kansas City	3185	-1402
Conglomerate Sand	3216	-1433
Arbuckle	3251	-1468
RTD	3320	-1537
LTD	3319	-1546

Report for
H&D Exploration LLC

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY H&D Exploration LLC

LEASE Dohrman #1

FIELD HEIKEN

LOCATION NW-1W-5E

SEC 25 TWP 17 S RGE 10 W

COUNTY Ellsworth STATE Kansas

CONTRACTOR Southwind Drilling Co.

SPUD 9-20-12 COMP 9-26-2012

RTD 3320 LTD 3319

MUD UP 2600 TYPE MUD Chemical dispersed

SAMPLES SAVED FROM 2700

DRILLING TIME KEPT FROM 2700

SAMPLES EXAMINED FROM 2700

GEOLOGICAL SUPERVISION FROM 2800

GEOLOGIST ON WELL Jen Musgrave & Kurt Talbott

ELEVATIONS

KB 1783

DF _____

GL 1775

Measurements Are All From - KB -

CASING SURFACE 8 5/8" @ 272'
PRODUCTION 5 1/2" @ 3318'

ELECTRICAL SURVEYS By Pioneer Energy Services, Dual Inductivity, Dual Compensated Porosity Log, Micro Sonic

FORMATION TOPS LOG SAMPLES

anhydrite	508	+1275	
base anhydrite	526	+1256	
Hebner	2776	-993	
Toronto	2793	-1010	
Douglas	2807	-1024	
Brown Lime	2894	-1111	
Hansing	2911	-1128	
Base Kansas City	3185	-1402	
any limestone	3216	-1433	
Arbuckle	3251	-1468	
RTD	3320	-1537	
RTD	3319	-1546	

RTD

REMARKS

5 1/2" Production casing was set & cemented in the Dohrman #1.

Respectfully Submitted,
Jen C. Musgrave & Kurt Talbott
Petrologist

LEGEND

Anhydrite	Salt	Sandstone	Shale	Gurb sh	Limestone	Ool. Lime	Chert	Dolomite

DRILLING TIME

YGO HL

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. 6028

Date	Sec.	Twp.	Range	County	State	On Location	Finish
9-27-12	25	17	10	Ellsworth	KS		12:15 p.m.

Location Boston 1/4 W 3/4 E into

Lease <u>Dohrman</u>	Well No. <u>1</u>	Owner
Contractor <u>Southwind #6</u>		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 <u>Production string</u>		
Hole Size <u>7 7/8</u>	T.D. <u>3320</u>	Charge To <u>H&I Exploration</u>
Csg. <u>5/2 14#</u>	Depth <u>3319.84</u>	Street
Tbg. Size	Depth	City State
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg. <u>13.84</u>	Shoe Joint <u>1384</u>	Cement Amount Ordered <u>150 com 100% salt 5% Gilsontite</u>
Meas Line	Displace <u>80 1/2 BBL</u>	<u>500 gal mod clear</u>

EQUIPMENT

Pumptrk <u>15</u>	No. Cementer <u>Coig</u>	Helper	Common <u>150</u>
Bulktrk	No. Driver <u>Nick</u>	Driver	Poz. Mix
Bulktrk <u>8</u>	No. Driver <u>Coig</u>	Driver	Gel.
			Calcium

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole <u>30SK</u>	Salt <u>13</u>
Mouse Hole	Flowseal
Centralizers	Kol-Seal <u>750A</u>
Baskets	Mud CLR 48 <u>500 gal</u>
D/V or Port Collar	CFL-117 or CD110 CAF 38
<u>5/2 on bottom. Est. Circulation Pump</u>	Sand
<u>500 gal mod clear & 10 BBL spacer</u>	Handling <u>170</u>
<u>Plug Rathole Cement 5/2 with</u>	Mileage
<u>120SK. Clear lines Displace Plug</u>	
<u>Plug landed @ 1500ft. Held. Release</u>	
<u>Pressure Dr.</u>	

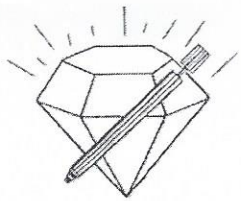
FLOAT EQUIPMENT

	Guide Shoe
	Centralizer <u>8 Turbo's</u>
	Baskets <u>1</u>
	AFU Inserts
	Float Shoe <u>1</u>
	Latch Down <u>1</u>
	<u>Rotator</u>

Pumptrk Charge	<u>prod long string</u>
Mileage	<u>37</u>

	Tax
	Discount
	Total Charge

X Signature G. Achatz



DIAMOND TESTING

P.O. Box 157

HOISINGTON, KANSAS 67544

(620) 653-7550 • (800) 542-7313

STC/DOHRMAN1DST1

Company H & D Exploration, LLC Lease & Well No. Dohrman No. 1
 Elevation 1783 KB Formation Conglomerate Effective Pay _____ Ft. Ticket No. J3014
 Date 9-25-12 Sec. 25 Twp. 17S Range 10W County Ellsworth State Kansas
 Test Approved By Kurt Talbott Diamond Representative John C. Riedl

Formation Test No. 1 Interval Tested from 3,181 ft. to 3,229 ft. Total Depth 3,229 ft.
 Packer Depth 3,176 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
 Packer Depth 3,181 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
 Depth of Selective Zone Set _____ ft.

Top Recorder Depth (Inside) 3,184 ft. Recorder Number 30046 Cap. 6,000 psi.
 Bottom Recorder Depth (Outside) 3,226 ft. Recorder Number 11073 Cap. 4,000 psi.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ psi.

Drilling Contractor Southwind Drilling, Inc. - Rig 6 Drill Collar Length _____ ft. I.D. _____ in.
 Mud Type Chemical Viscosity 53 Weight Pipe Length _____ ft. I.D. _____ in.
 Weight 8.9 Water Loss 8.0 cc. Drill Pipe Length 3,161 ft. I.D. 3 1/2 in.
 Chlorides 3,700 P.P.M. Test Tool Length 20 ft. Tool Size 3 1/2-IF in.
 Jars: Make Sterling Serial Number Not Run Anchor Length 48 ft. Size 4 1/2-FH in.
 Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2-XH in.

Blow: 1st Open: Strong blow increasing. Off bottom of bucket in 28 mins. No blow back during shut-in.

2nd Open: Strong, 11 in. blow. No blow back during shut-in.

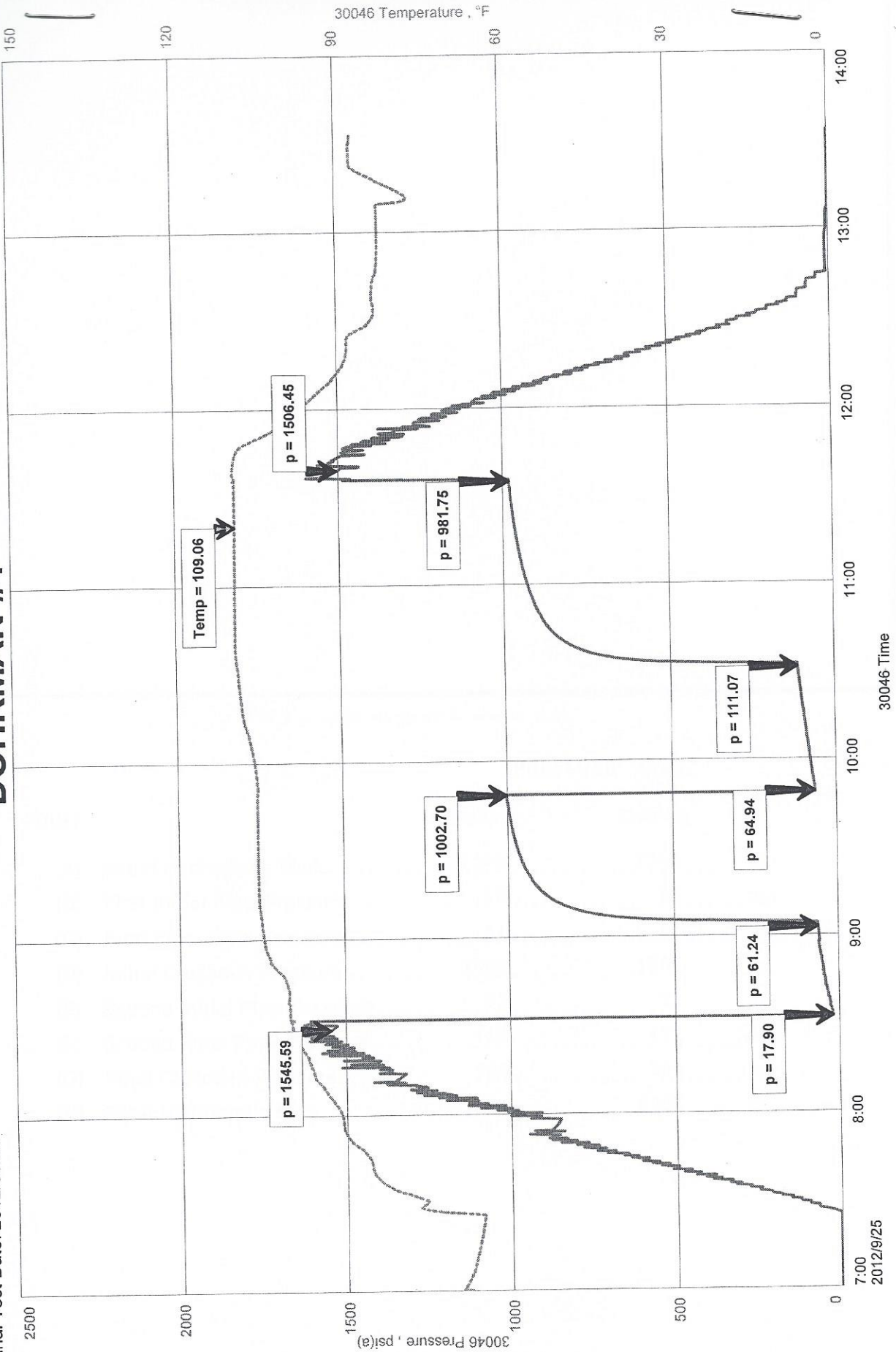
Recovered 30 ft. of gas in pipe
 Recovered 150 ft. of oil cut gassy mud = 2.134500 bbls. (Grind out: 15%-gas; 5%-oil; 80%-mud)
 Recovered 60 ft. of slightly oil cut watery mud = .853800 bbls. (Grind out: 2%-oil; 15%-water; 83%-mud) Chlorides: 15,000 Ppm
 Recovered 210 ft. of TOTAL FLUID = 2.988300 bbls.
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Remarks _____

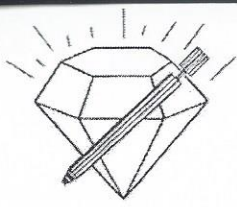
Time Set Packer(s) 8:30 A.M. Time Started off Bottom 11:30 A.M. Maximum Temperature 109°
 Initial Hydrostatic Pressure.....(A) 1546 P.S.I.
 Initial Flow Period.....Minutes 30 (B) 18 P.S.I. to (C) 61 P.S.I.
 Initial Closed In Period.....Minutes 45 (D) 1003 P.S.I.
 Final Flow Period.....Minutes 45 (E) 65 P.S.I. to (F) 111 P.S.I.
 Final Closed In Period.....Minutes 60 (G) 982 P.S.I.
 Final Hydrostatic Pressure.....(H) 1506 P.S.I.

DOHRMAN #1
Formation: CONGLOMERATE
Job Number: D1218

H+D EXPLORATION LLC
Start Test Date: 2012/09/25
Final Test Date: 2012/09/25

DOHRMAN #1





DIAMOND TESTING

P.O. Box 157

Page 1 of 2 Pages

HOISINGTON, KANSAS 67544

(620) 653-7550 • (800) 542-7313

STC/DOHRMAN1DST2

Company H & D Exploration, LLC Lease & Well No. Dohrman No. 1
 Elevation 1783 KB Formation Conglomerate/Arbuckle Effective Pay Ft. Ticket No. J3015
 Date 9-25-12 Sec. 25 Twp. 17S Range 10W County Ellsworth State Kansas
 Test Approved By James C. Musgrove Diamond Representative John C. Riedl

Formation Test No. 2 Interval Tested from 3,181 ft. to 3,270 ft. Total Depth 3,270 ft.
 Packer Depth 3,176 ft. Size 6 3/4 in. Packer Depth ft. Size in.
 Packer Depth 3,181 ft. Size 6 3/4 in. Packer Depth ft. Size in.
 Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,184 ft. Recorder Number 30046 Cap. 6,000 psi.
 Bottom Recorder Depth (Outside) 3,267 ft. Recorder Number 11073 Cap. 4,000 psi.
 Below Straddle Recorder Depth ft. Recorder Number Cap. psi.

Drilling Contractor Southwind Drilling, Inc. - Rig 6 Drill Collar Length ft. I.D. in.
 Mud Type Chemical Viscosity 53 Weight Pipe Length ft. I.D. in.
 Weight 8.9 Water Loss 8.0 cc. Drill Pipe Length 3,161 ft. I.D. 3 1/2 in.
 Chlorides 3,700 P.P.M. Test Tool Length 20 ft. Tool Size 3 1/2-IF in.
 Jars: Make Sterling Serial Number Not Run Anchor Length 26' perf. w/ 63' drill pipe Size 4 1/2-FH in.
 Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2-XH in.

Blow: 1st Open: Strong blow increasing. Off bottom of bucket in 15 mins. No blow back during shut-in.

2nd Open: Strong blow increasing. Off bottom of bucket in 40 mins. No blow back during shut-in.

Recovered 75 ft. of gas in pipe
 Recovered 290 ft. of gas & oil cut mud = 4.126700 bbls. (Grind out: 15%-gas; 15%-oil; 70%-mud)
 Recovered 60 ft. of watery mud = .853800 bbls. (Grind out: 20%-water; 80%-mud) Chlorides: 17,000 Ppm
 Recovered 350 ft. of TOTAL FLUID = 4.980500 bbls.
 Recovered ft. of
 Recovered ft. of

Remarks

Time Set Packer(s) 11:45 P.M. Time Started off Bottom 2:30 A.M. Maximum Temperature 107°
 Initial Hydrostatic Pressure.....(A) 1519 P.S.I.
 Initial Flow Period.....Minutes 30 (B) 24 P.S.I. to (C) 78 P.S.I.
 Initial Closed In Period.....Minutes 30 (D) 980 P.S.I.
 Final Flow Period.....Minutes 45 (E) 85 P.S.I. to (F) 164 P.S.I.
 Final Closed In Period.....Minutes 60 (G) 952 P.S.I.
 Final Hydrostatic Pressure.....(H) 1497 P.S.I.

DOHRMAN #1
 Formation: CONG+ ARB
 Job Number: D1219

H+D EXPLORATION LLC
 Start Test Date: 2012/09/25
 Final Test Date: 2012/09/26

DOHRMAN #1

