

MORNING DRILLING REPORT
For: H&D Exploration, LLC

SOUTHWIND DRILLING, INC.
RIG No. 6

Well Name: Fisher #1
Location: 330' FNL & 330' FEL
Section: 21-25S-12W
County: Stafford
API: 15-185-23851-00-00

Elevation: GL 1860'
KB 1868'
Est. TD: 4300'
Conductor: N/A

Rig No. 6 (Pusher Wes Pfaff) 620 566-7094
Rig No. 6 (Doghouse) 620 566-7150
Southwind Drilling Office 620 564-3800



Surface Casing: Ran 16 joints of new 2 3/8", 8 5/8" casing, Tally @ 670', Set @ 680', used 325 sacks total, 175 sacks of Acon, 3% cc 25# cell-flake, 150 sacks of Common, 3% cc, 25# cell-flake, cement circulated, by Basic (Ticket #1718), plug down @ 8:30 am on 01.12.14.

Production Info: Ran 94 joints of new 15.6#, 5 1/2" casing, Tally @ 4208', Set @ 4217', used 200 sacks of 60/40 Poz, 25% Defoamer, 18% salt, 75% CFR, 5# Gilsomite, 30 sacks of 60/40 Poz, 2% gel, cemented, by Basic (Ticket #9647), job complete @ 1:15 pm on 01.21.14.

Rotary Total Depth: 4225'
Log Total Depth: 4223' Geologist: Jim Musgrove

7:00 A.M. Depth: 4225' 7:00 A.M. Current Operation: TEAR DOWN

Spud Date & Time:	01/11/14 Day 1	01/12/14 Day 2	01/13/14 Day 3	01/14/14 Day 4	01/15/14 Day 5	01/16/14 Day 6	01/17/14 Day 7	01/18/14 Day 8	01/19/14 Day 9	01/20/14 Day 10	01/21/14 Day 11	Total
Total Depth (7:00am)	0	680	1400	2490	3260	3610	3800	3855	4028	4130	4225	4225
Daily Progress	680	720	1090	770	350	190	55	173	102	95		4225
Fl. Per Hr.	97.14	106.67	53.17	36.24	29.79	17.67	18.33	22.32	21.47	18.10	#DIV/0!	42.78
Current Operation (7:00am)	Rig Up	Run Casing	Drilling	Drilling	Drilling	TOWT	TOWT	DST #3	DST #4	TWVB	LDDP	
Formation	Surface	Surface	Sand / Shake	Shale	Shale	Lansing "B"	Lansing "J"	Lansing "K"	Mississippi	Simpson	Arbuckle	
Fuel Used	212.75	237.58	187.87	466.62	316.48	279.53	210.50	310.13	227.64	228.94	91.21	2969.25
Survey (degree & depth)	1' @ 680'				1' @ 3610'						1' @ 4225'	

Mud Cost	\$0.00	\$1,277.00	\$3,115.75	\$2,063.80	\$322.55	-\$7.45	\$0.00	\$1,605.00	\$278.60	\$1,345.70		\$10,001.85
Weight (# / Gal)	10.2	8.2	9.8	8.9	9.2	9.3	9.3	9.3	9.1	9.1		
Vls (Funnel)	36	26	29	70	67	58	54	55	53	50		
Water Loss (cc)				6.8	6.8	6.8	14.2	10.2	12.4	13.2		

Bit #1												
Bit Make / Type	JZ Teeth											
Bit Size	12 1/4											
Bit Hours	7.00											7.00
Bit #2												
Bit Make / Type	JZ HA20Q	JZ HA20Q	JZ HA20Q	JZ HA20Q	JZ HA20Q	JZ HA20Q	JZ HA20Q	JZ HA20Q	JZ HA20Q	JZ HA20Q	JZ HA20Q	
Bit Size	7 7/8	7 7/8	7 7/8	7 7/8	7 7/8	7 7/8	7 7/8	7 7/8	7 7/8	7 7/8	7 7/8	
Bit Hours	6.75	30.50	21.25	11.75	10.75	3.00	7.75	4.75	5.25			81.75
Bit Cumulative Hours	7.00	6.75	20.50	21.25	11.75	10.75	3.00	7.75	4.75	5.25	0.00	88.75
Weight on Bit (WOB)	20,000	28,000	35,000	35,000	35,000	35,000	35,000	35,000	35,000	35,000		
RPM	160	80	80	80	80	80	80	80	80	75		
Pump Pressure	450	650	1000	900	900	800	800	800	950	800		
Drilling (Rotating) Hours	7.00	6.75	20.50	21.25	11.75	10.75	3.00	7.75	4.75	5.25	0.00	88.75

Daywork Hrs: (Operator's time)												
Rat Hole (> 75 Hrs)												0.00
Wait on Cement		12.00										12.00
Trip	1.75				5.25	6.75	6.25	6.50	10.00	5.75		42.25
Circulate	0.50				2.25	1.50	2.25	3.00	3.00	4.00		16.50
Tool					0.50	1.25	1.50	1.50	1.75	0.25		6.75
Testing					3.00	3.00	1.50	4.25	3.25			15.00
Clean Floor												0.00
Logging										4.25		4.25
LDDP / LDDC										4.00	1.00	5.00
Run Casing / Cement	1.00	1.50									4.50	7.00
Nipple Down / Jet Collar												0.00
Set Slips / Jet Pils											1.25	1.25
Wait on Loggers												0.00
Wait on Orders												0.00
Billable Hours	3.25	13.50	0.00	0.00	11.00	12.50	11.50	15.25	18.00	18.25	6.75	110.00

Non-Billable Hours (Southwind's time)												
Rig Up / Rig Down	9.00										8.50	17.50
Wait on Cement (if NC)												0.00
Drill Rat Hole (< 75 hrs)	0.25											0.25
Drill Plug		0.50										0.50
Circulate / Trip (Surface)	1.25											1.25
Rig Repair		0.75				0.25	3.00	0.50	1.00	0.25		5.75
Connections	2.75	2.25	2.50	1.75	1.00	0.50	0.50	0.50	0.25	0.25		12.25
Jet/Displace	0.25	0.25	1.00	1.00								2.50
Surveys	0.25				0.25							0.50
Rig Check												0.00
Circulate (NB)							1.00					1.00
Trip Time (NB)												0.00
Plugged Bit							5.00					5.00
Lost Circulation (< 2 hrs)												0.00
Lay Down Kelly / RH											0.75	0.75
Non-Billable Hrs.	13.75	3.75	3.50	2.75	1.25	0.75	9.50	1.00	1.25	0.50	9.25	47.25

Footage Cost	\$ 9,520.00	\$ 10,080.00	\$ 15,260.00	\$ 10,780.00	\$ 4,900.00	\$ 2,660.00	\$ 770.00	\$ 2,422.00	\$ 1,426.00	\$ 1,330.00	\$ -	\$ 59,150.00
Daywork Cost	\$ 1,137.50	\$ 4,725.00	\$ -	\$ -	\$ 3,850.00	\$ 4,375.00	\$ 4,025.00	\$ 5,337.50	\$ 6,300.00	\$ 6,387.50	\$ 2,362.50	\$ 38,500.00
Combined Est. Cost*	\$ 10,657.50	\$ 14,805.00	\$ 15,260.00	\$ 10,780.00	\$ 8,750.00	\$ 7,035.00	\$ 4,795.00	\$ 7,759.50	\$ 7,728.00	\$ 7,717.50	\$ 2,362.50	\$ 97,650.00

*Please note that this is estimated footage & daywork cost only. Additional charges will apply on invoice (fuel surcharge, water transfer pump, etc)

DST #1 Info - Footage Interval: 3573' - 3610' Recovery: 17" Mud	Lansing "B"	DST #2 Info - Footage Interval: 3708' - 3800' Recovery: 500' Gas in Pipe 170' Gassy Oil Spotted Mud
DST #3 Info - Footage Interval: 3801' - 3855' Recovery: 60' Gas in Pipe 15" Mud	Lansing "K-L"	DST #4 Info - Footage Interval: 3960' - 4028' Recovery: 240' Gassy Slight Oil Cut Muddy Water 780' Gassy Cut Mud & Oil Cut Water 190' Slight Gassy Cut Water
DST #5 Info - Footage Interval: 4094' - 4130' Recovery: 2235' Water with Gas	"Simpson"	DST #6 Info - Footage Interval: Recovery:

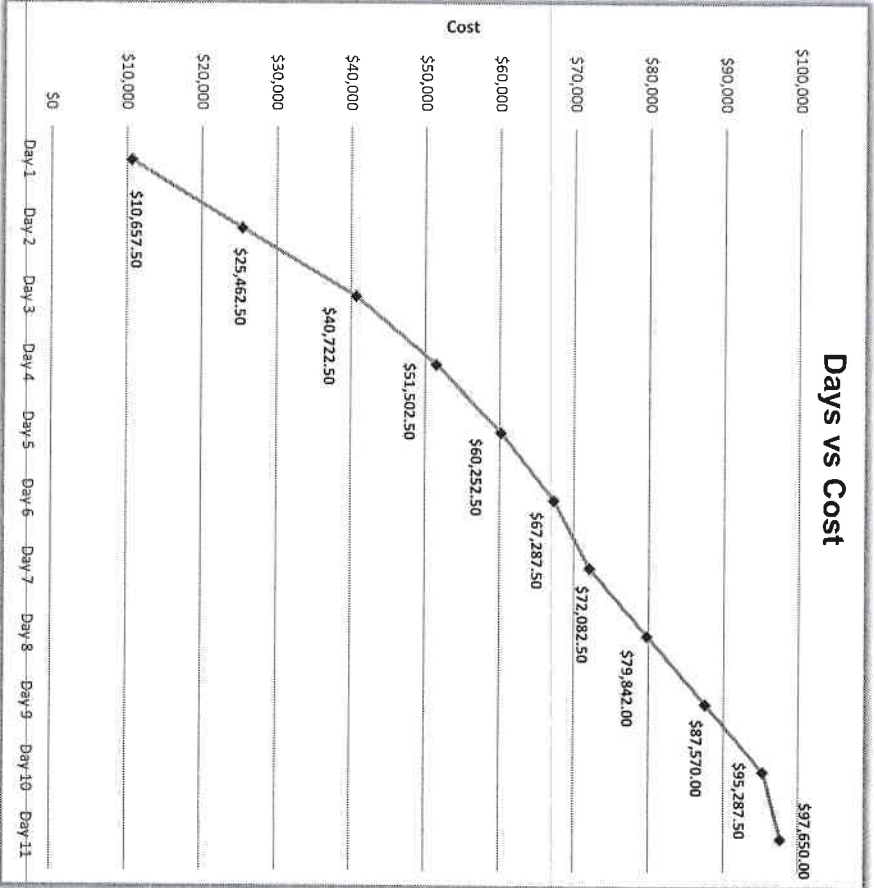
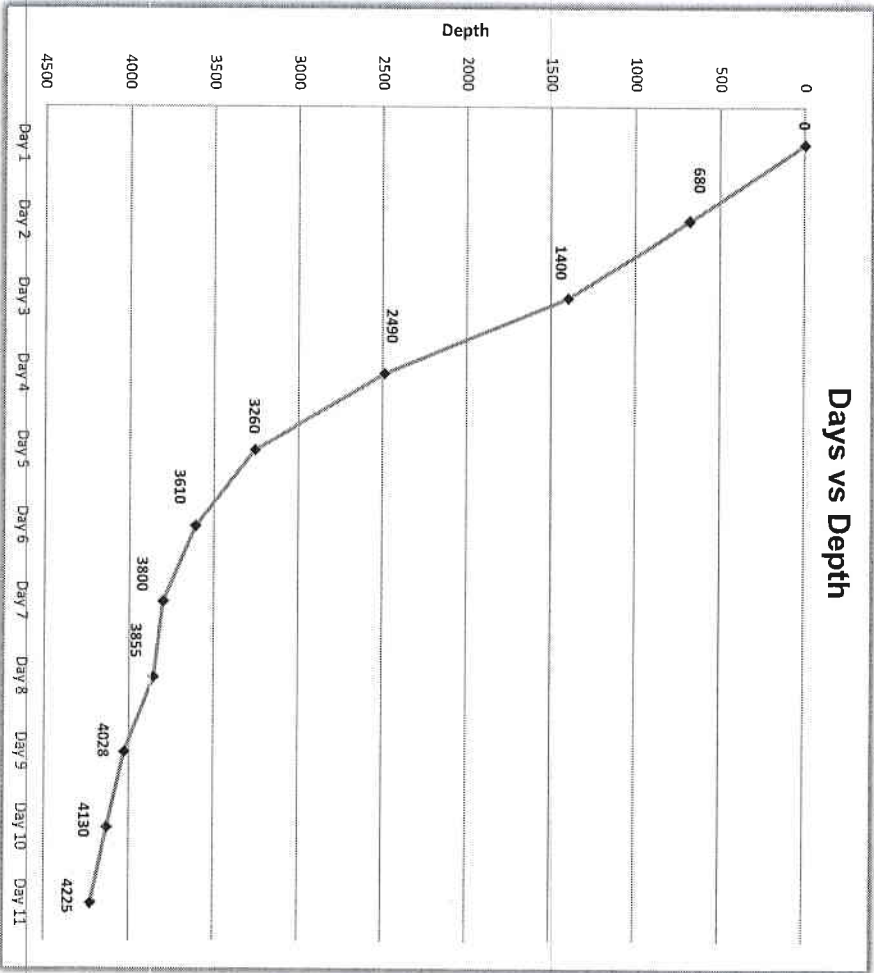
Anhydrite @ 670' - 694'

Displaced @ 2823'



Job Summary Graphical Report

Southwind Rig No. 6
Fisher #1





Diamond Testing General Report

**JAKE
FAHRENBRUCH - TESTER
Cell: (620) 282-8977**

P.O. Box 157
Hoisington KS 67544
Office: (800) 542-7313

General Information

Company Name H D Exploration, LLC
Well Operator H D Exploration, LLC
Contact Gerald Achatz
Site Contact Josh Austin
Field NA
Well Type Vertical
Prepared By Jake Fahrenbruch

Well Name
Unique Well ID DST #1 Lansing "B" 3573'-3610'
Surface Location Sec 21-25s-12w-Stafford Co.-KS
Test Unit #5
Pool NA
Job Number F229
Qualified By Josh Austin

Test Information

Test Type Bottom-Hole w/Jars & Safety Jt
Formation Lansing "B" 3573'-3610'
Start Test Date 2014/01/16
Final Test Date 2014/01/16

Test Purpose Initial Test
Gauge Name Inside 0062
Start Test Time 01:40:00
Final Test Time 08:35:00

Test Results

30 minute initial flow period: Strong blow off B.O.B. in 1.75 minutes. No G.T.S.
45 minute initial shut-in period: No blow-back.
45 minute final flow period: Strong blow off B.O.B. immediately. No G.T.S.
60 minute final shut-in period: No blow-back.

Recovered:

20' SOSM 1% oil, 99% mud
----- 1070' of Gas In Pipe
----- Bottom-Hole Temp: 109 Deg F

Pressures:

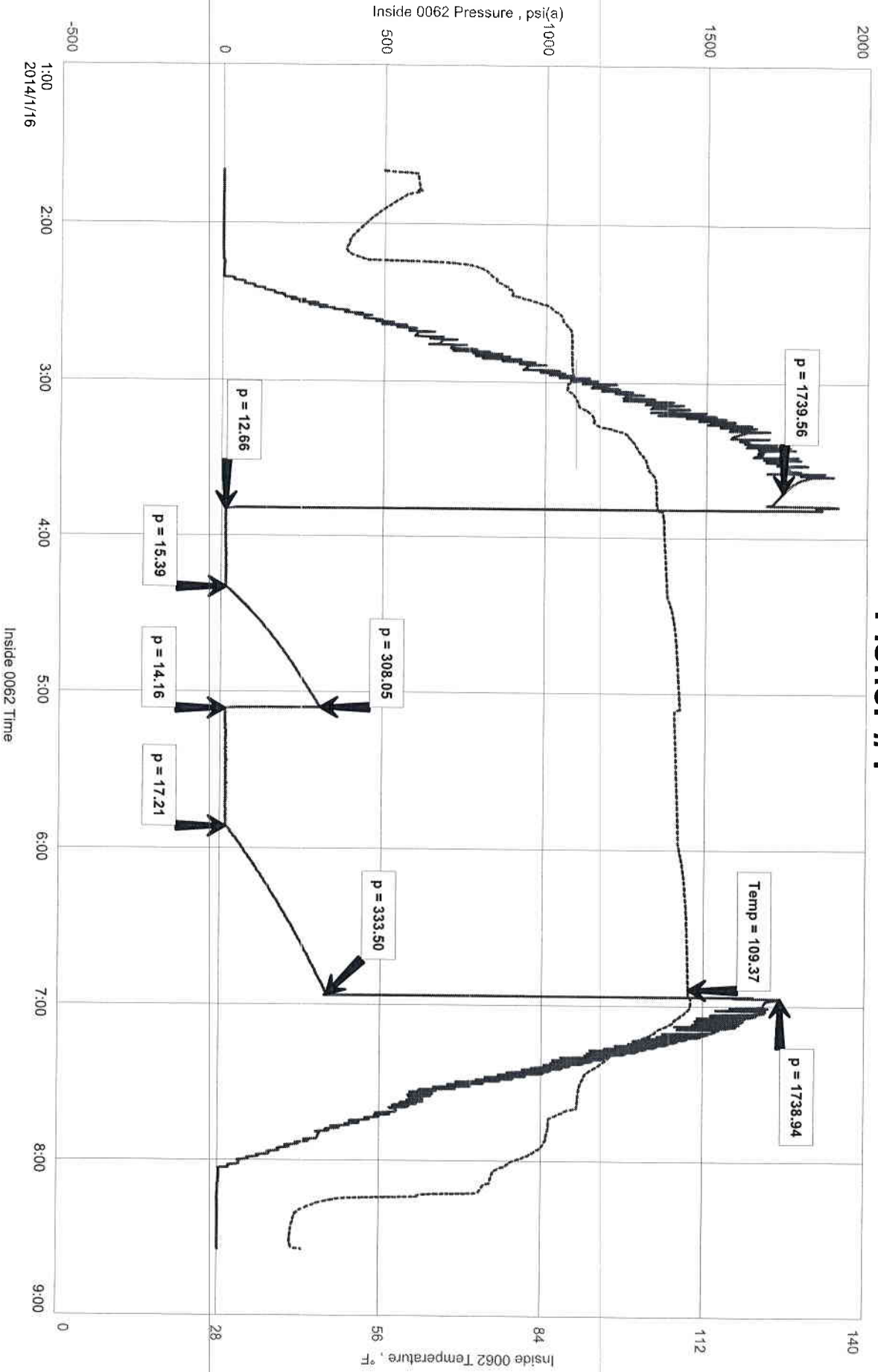
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FHP: 1739

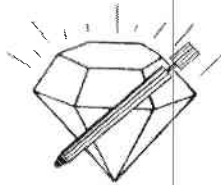
Thanks.

HD Exploration, LLC
DST #1 Lansing "B" 3573'-3610'
Start Test Date: 2014/01/16
Final Test Date: 2014/01/16

Fisher #1

Fisher #1
Formation: Lansing "B" 3573'-3610'
Pool: NA
Job Number: F229





DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: FISHER1DST1

TIME ON: 1:40 AM

TIME OFF: 8:35 AM

Company H D Exploration, LLC Lease & Well No. Fisher #1
 Contractor Southwind Drilling Rig #6 Charge to H D Exploration, LLC
 Elevation 1868' KB Formation Lansing "B" Effective Pay _____ Ft. Ticket No. F229
 Date 1-16-14 Sec. 21 Twp. 25 S Range 12 W County Stafford State KANSAS
 Test Approved By Josh Austin Diamond Representative Jake Fahrenbruch

Formation Test No. ONE Interval Tested from 3573 ft. to 3610 ft. Total Depth 3610 ft.
 Packer Depth 3568 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 3573 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3551 ft. Recorder Number 0062 Cap. 5,000 P.S.I.
 Bottom Recorder Depth (Outside) 3576 ft. Recorder Number 5951 Cap. 5,000 P.S.I.
 Below Straddle Recorder Depth ---- ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chemical Viscosity 70 Drill Collar Length _____ ft. I.D. 2 1/4 in.
 Weight 9.2 Water Loss 6.8 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
 Chlorides 4900 P.P.M. Drill Pipe Length 3540 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number #5 J&J Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? NO Reversed Out NO Anchor Length 37 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. ALL PERF Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Strong blow off B.O.B. in 1.75 minutes. No G.T.S., No blow-back.

2nd Open: Strong blow off B.O.B. immediately. No G.T.S., No blowback.

Recovered 20 ft. of SOSM 1% oil, 99% mud
 Recovered _____ ft. of 1070" of Gas In Pipe
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
_____	Total

Time Set Packer(s) 3:50 AM A.M. P.M. Time Started Off Bottom 6:50 AM A.M. P.M. Maximum Temperature 109 Deg F
 Initial Hydrostatic Pressure..... (A) 1740 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 13 P.S.I. to (C) 15 P.S.I.
 Initial Closed In Period..... Minutes 45 (D) 308 P.S.I.
 Final Flow Period..... Minutes 45 (E) 14 P.S.I. to (F) 17 P.S.I.
 Final Closed In Period..... Minutes 60 (G) 334 P.S.I.
 Final Hydrostatic Pressure..... (H) 1739 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.



Diamond Testing General Report

**JAKE
FAHRENBRUCH - TESTER
Cell: (620) 282-8977**

P.O. Box 157
Hoisington KS 67544
Office: (800) 542-7313

General Information

Company Name H D Exploration, LLC
Well Operator H D Exploration, LLC
Contact Gerald Achatz
Site Contact Scott Alberg
Field NA
Well Type Vertical
Prepared By Jake Fahrenbruch

Well Name
Unique Well ID DST #3 Lansing "K&L" 3801'-3855'
Surface Location Sec 21-25s-12w-Stafford Co.-KS
Test Unit #5
Pool NA
Job Number F231
Qualified By Scott Alberg

Test Information

Test Type Bottom-Hole w/J&J
Formation Lansing "K&L"
Start Test Date 2014/01/18
Final Test Date 2014/01/18

Test Purpose Initial Test
Gauge Name Inside 5951
Start Test Time 03:28:00
Final Test Time 10:41:00

Test Results

30 minute initial flow period: Weak blow, built to 4".
45 minute initial shut-in period: No blow-back.
45 minute final flow period: Weak blow, built to 10".
60 minute final shut-in period: No blow-back.

Recovered:

15' Drilling Mud
----- 60' GIP
----- Bottom-Hole Temp: 105 Deg F

Pressures:

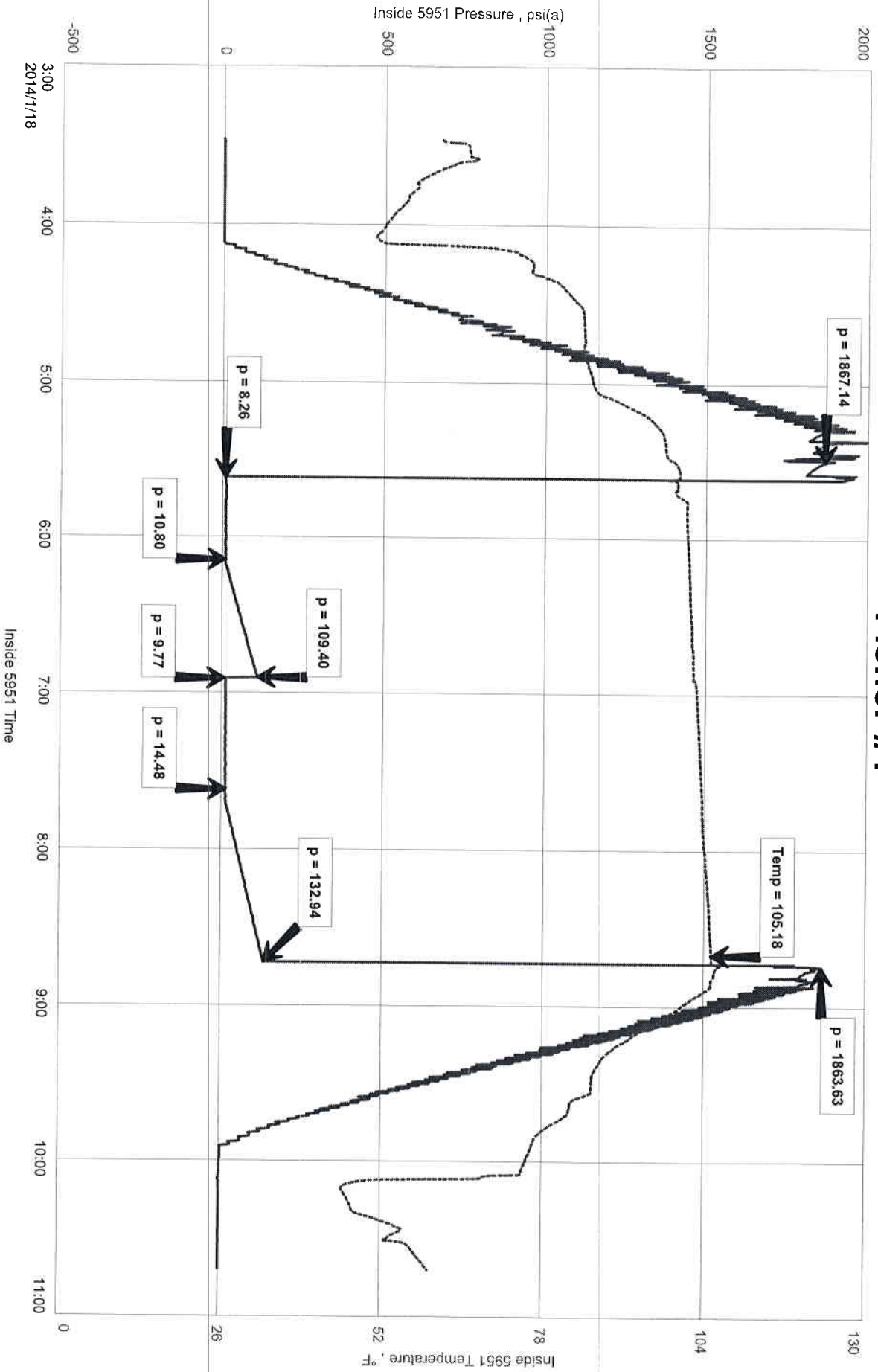
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FFP: 10-14
FSIP: 133
FHP: 1864

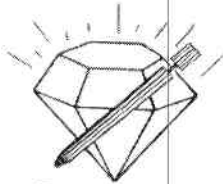
Thanks

HD Exploration, LLC
DST #3 Lansing "K&L" 3801'-3855'
Start Test Date: 2014/01/18
Final Test Date: 2014/01/18

Fisher #1

Fisher #1
Formation: Lansing "K&L"
Pool: NA
Job Number: F231





DIAMOND TESTING
 P.O. Box 157
HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: FISHER1DST3

TIME ON: 3:28 AM

TIME OFF: 10:41 AM

Company H D Exploration, LLC

Lease & Well No. Fisher #1

Contractor Southwind Drilling

Rig #6

Charge to H D Exploration, LLC

Elevation 1868' KB

Formation

Lansing "K&L"

Effective Pay

Ft. Ticket No.

F231

Date 1-18-14 Sec. 21

Twp.

25 S

Range

12 W County

Stafford

State

KANSAS

Test Approved By Scott Alberg

Diamond Representative

Jake Fahrenbruch

Formation Test No. Three Interval Tested from 3801 ft. to 3855 ft. Total Depth 3855 ft.

Packer Depth 3796 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Packer Depth 3801 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3779 ft. Recorder Number 5951 Cap. 5,000 P.S.I.

Bottom Recorder Depth (Outside) 3780 ft. Recorder Number 0062 Cap. 5,000 P.S.I.

Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chemical Viscosity 54 Drill Collar Length _____ ft. I.D. 2 1/4 in.

Weight 9.2 Water Loss 14.2 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.

Chlorides 10,400 P.P.M. Drill Pipe Length 3768 ft. I.D. 3 1/2 in.

Jars: Make STERLING Serial Number #5 J&J Test Tool Length 33 ft. Tool Size 3 1/2-IF in.

Did Well Flow? NO Reversed Out NO Anchor Length 54 ft. Size 4 1/2-FH in.

Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. 20' PERF (2 TOP, 18 BTM) Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Weak blow, built to 4". No blow-back.

2nd Open: Weak blow, built to 10". No blow-back.

Recovered 15 ft. of Drilling Mud

Recovered _____ ft. of 60' GIP

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks:

Price Job

Other Charges

Insurance

Total

Time Set Packer(s) 5:36 A.M. P.M. Time Started Off Bottom 8:36 A.M. P.M. Maximum Temperature 105 Deg F

Initial Hydrostatic Pressure..... (A) 1867 P.S.I.

Initial Flow Period..... Minutes 30 (B) 8 P.S.I. to (C) 11 P.S.I.

Initial Closed In Period..... Minutes 45 (D) 109 P.S.I.

Final Flow Period..... Minutes 45 (E) 10 P.S.I. to (F) 14 P.S.I.

Final Closed In Period..... Minutes 60 (G) 133 P.S.I.

Final Hydrostatic Pressure..... (H) 1864 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.



Diamond Testing General Report

**JAKE
FAHRENBRUCH - TESTER
Cell: (620) 282-8977**

P.O. Box 157
Hoisington KS 67544
Office: (800) 542-7313

General Information

Company Name H D Exploration, LLC
Well Operator H D Exploration, LLC
Contact Gerald Achatz
Site Contact Josh Austin
Field NA
Well Type Vertical
Prepared By Jake Fahrenbruch

Well Name Fisher #1
Unique Well ID DST #2 Lansing "H,I,J" 3708'-3800'
Surface Location Sec 21-25s-12w-Stafford Co.-KS
Test Unit #5
Pool NA
Job Number F230
Qualified By Josh Austin

Test Information

Test Type Bottom-Hole w/J&J
Formation Lansing "H,I,J" 3708'-3800'
Start Test Date 2014/01/17
Final Test Date 2014/01/17

Test Purpose Initial Test
Gauge Name Inside 5951
Start Test Time 00:58:00
Final Test Time 08:44:00

Test Results

30 minute initial flow period: Fairly strong blow, built to B.O.B. in 15 minutes.
45 minute initial shut-in period: No blow-back.
45 minute final flow period: Fairly strong blow, built to B.O.B. in 10 minutes.
60 minute final shut-in period: Blow-back built to 1.5".

Recovered:

170' Gassy Oil Specked Mud 25% gas, 2% oil, 73% mud
----- 500' Gas In Pipe
----- Bottom-Hole Temp: 110 Deg F

Pressures:

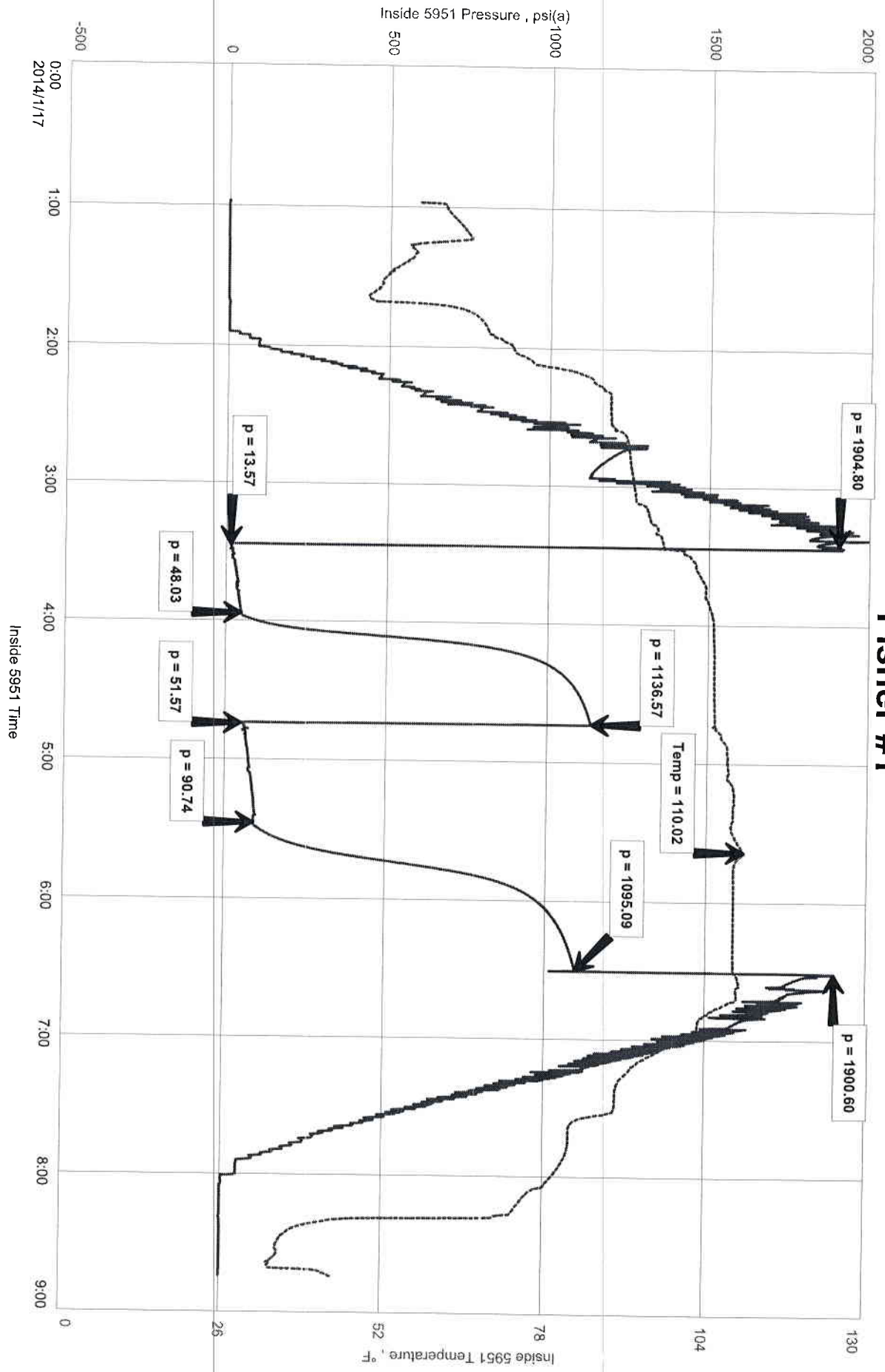
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IFP: 14-48
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FFP: 52-91
FSIP: 1095
FHP: 1901

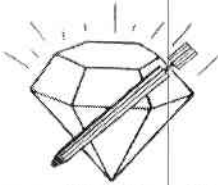
Thanks.

H D Exploration, LLC
 DST #2 Lansing "H,I,J" 3708-3800'
 Start Test Date: 2014/01/17
 Final Test Date: 2014/01/17

Fisher #1

Fisher #1
 Formation: Lansing "H,I,J" 3708-3800'
 Pool: NA
 Job Number: F230





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: FISHER1DST2

TIME ON: 12:58 AM

TIME OFF: 8:44 AM

Company H D Exploration, LLC Lease & Well No. Fisher #1
Contractor Southwind Drilling Rig #6 Charge to H D Exploration, LLC
Elevation 1868' KB Formation Lansing "H,I,J" Effective Pay _____ Ft. Ticket No. F230
Date 1-17-14 Sec. 21 Twp. 25 S Range 12 W County Stafford State KANSAS
Test Approved By Josh Austin Diamond Representative Jake Fahrenbruch

Formation Test No. TWO Interval Tested from 3708 ft. to 3800 ft. Total Depth 3800 ft.
Packer Depth 3703 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3708 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3686 ft. Recorder Number 5951 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 3687 ft. Recorder Number 0062 Cap. 5,000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chemical Viscosity 58 Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight 9.3 Water Loss 8.8 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides 7700 P.P.M. Drill Pipe Length 3675 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number #5 J&J Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 92 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. 26' PERF (2'TOP, 24'BTM) Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Fairly strong blow, built to B.O.B. in 15 minutes. No blow-back.

2nd Open: Fairly strong blow, built to B.O.B. in 10 minutes. Blow-back built to 1.5".

Recovered 170 ft. of Gassy Oil Specked Mud 25% gas, 2% oil, 73% mud
Recovered _____ ft. of 500' Gas In Pipe
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
_____	Total

Time Set Packer(s) 3:25 AM A.M. P.M. Time Started Off Bottom 6:25 AM A.M. P.M. Maximum Temperature 110 Deg F

Initial Hydrostatic Pressure..... (A) 1905 P.S.I.
Initial Flow Period..... Minutes 30 (B) 14 P.S.I. to (C) 48 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 1137 P.S.I.
Final Flow Period..... Minutes 45 (E) 52 P.S.I. to (F) 91 P.S.I.
Final Closed In Period..... Minutes 60 (G) 1095 P.S.I.
Final Hydrostatic Pressure..... (H) 1901 P.S.I.

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**JAKE
FAHRENBRUCH - TESTER
Cell: (620) 282-8977**

P.O. Box 157
Hoisington KS 67544
Office: (800) 542-7313

General Information

Company Name HD Exploration LLC
Well Operator HD Exploration LLC
Contact Gerald Achatz
Site Contact Scott Alberg
Field NA
Well Type Vertical
Prepared By Jake Fahrenbruch

Well Name
Unique Well ID DST #5 Simpson 4094'-4130'
Surface Location Sec 21-25s-12w-Stafford Co.-KS
Test Unit #5
Pool NA
Job Number F233
Qualified By Scott Alberg

Test Information

Test Type Bottom-Hole w/J&J
Formation Simpson 4094'-4130'
Start Test Date 2014/01/19
Final Test Date 2014/01/20

Test Purpose Initial Test
Gauge Name Inside 5951
Start Test Time 23:17:00
Final Test Time 07:30:00

Test Results

30 minute initial flow period: Strong blow @ BOB in 1 minute.
45 minute initial shut-in period: Weak blowback @ .5".
30 minute final flow period: Strong blow @ BOB in 2 minutes.
60 minute final shut-in period: No blowback.

Recovered:

380' MCW 85% wtr, 15% mud
1855' Water 100% wtr
----- Total Recovered Fluid: 2235' ----- (31.74 BBL)
----- Chlorides: 28,000 PPM
----- RW: .28 ohm @ 32 Deg F
----- PH: 7.5
----- Bottom-Hole Temp: 126 Deg F

Pressures:

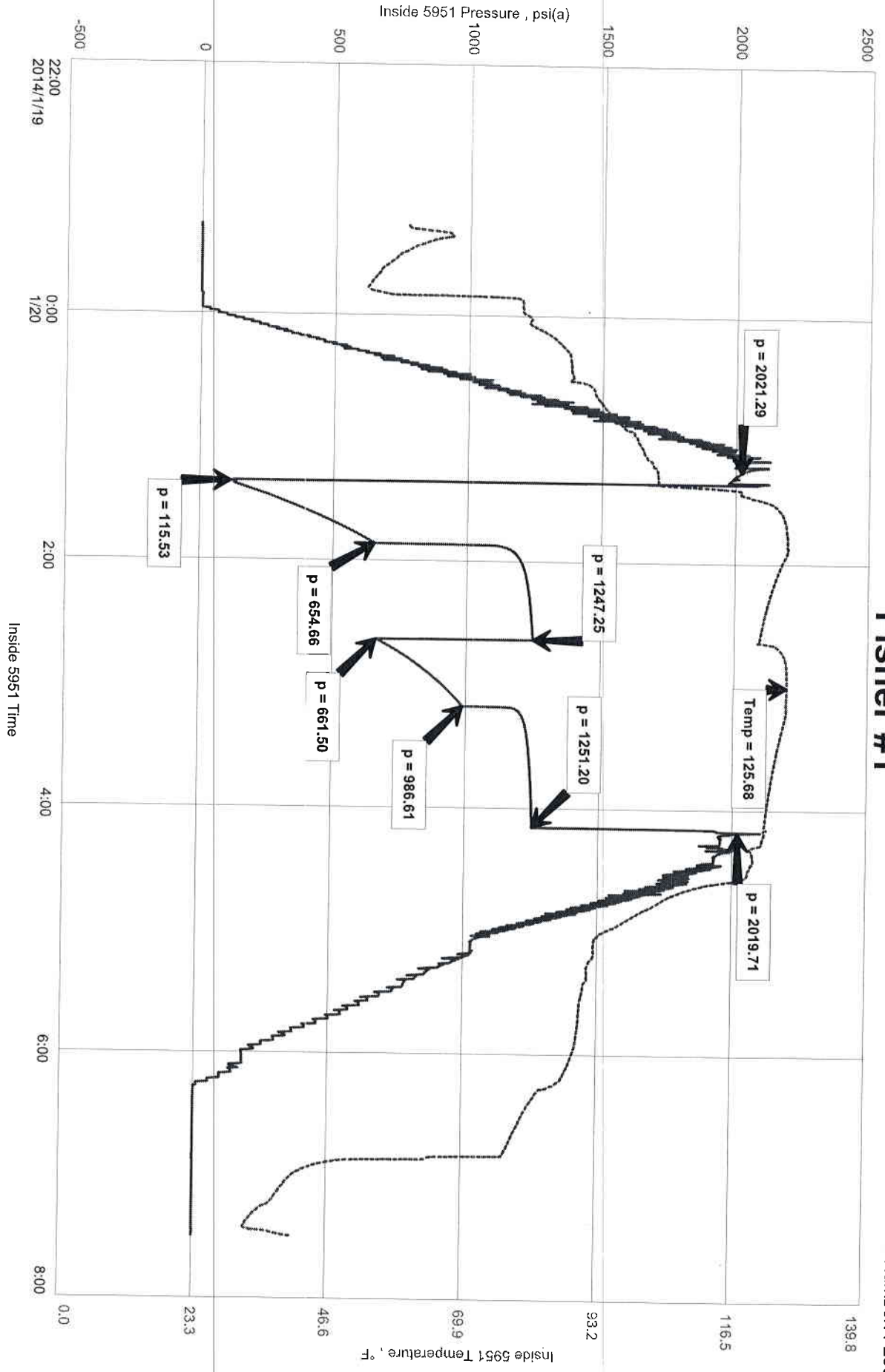
IHP: 2021
IFP: 116 - 655
ISIP: 1247
FFP: 662 - 987
FSIP: 1251
FHP: 2020

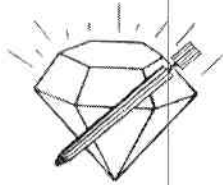
Thanks!

HD Exploration LLC
 DST #5 Simpson 4094'-4130'
 Start Test Date: 2014/01/19
 Final Test Date: 2014/01/20

Fisher #1

Fisher #1
 Formation: Simpson 4094'-4130'
 Pool: NA
 Job Number: F233





DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: FISHER1DST5

TIME ON: 11:17 PM 1-19
 TIME OFF: 7:30 AM 1-20

Company H D Exploration, LLC Lease & Well No. Fisher #1
 Contractor Southwind Drilling Rig #6 Charge to H D Exploration, LLC
 Elevation 1868' KB Formation Simpson Effective Pay _____ Ft. Ticket No. F233
 Date 1-20-14 Sec. 21 Twp. 25 S Range 12 W County Stafford State KANSAS
 Test Approved By Scott Alberg Diamond Representative Jake Fahrenbruch

Formation Test No. FIVE Interval Tested from 4094 ft. to 4130 ft. Total Depth 4130 ft.
 Packer Depth 4089 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 4094 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4072 ft. Recorder Number 5951 Cap. 5,000 P.S.I.
 Bottom Recorder Depth (Outside) 4073 ft. Recorder Number 0062 Cap. 5,000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.
 Mud Type Chemical Viscosity 53 Drill Collar Length _____ ft. I.D. 2 1/4 in.
 Weight 9.1 Water Loss 12.4 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
 Chlorides 12,500 P.P.M. Drill Pipe Length 4061 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number #5 J&J Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? NO Reversed Out NO Anchor Length 36 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: Strong blow @ BOB in 1 minute. Weak blowback @ .5".

2nd Open: Strong blow @ BOB in 2 minutes. No blowback.

Recovered 380 ft. of MCW 85% wtr, 15% mud
 Recovered 1855 ft. of Water 100% wtr
 Recovered _____ ft. of Total Recovered Fluid: 2235' (31.74 BBL)
 Recovered _____ ft. of Chlorides: 28,000 PPM
 Recovered _____ ft. of RW: .28 ohm @ 32 Deg F
 Recovered _____ ft. of PH: 7.5

Remarks:

Price Job
Other Charges
Insurance
Total

Time Set Packer(s) 1:23 AM A.M. P.M. Time Started Off Bottom 4:08 AM A.M. P.M. Maximum Temperature 126 Deg F
 Initial Hydrostatic Pressure..... (A) 2021 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 116 P.S.I. to (C) 655 P.S.I.
 Initial Closed In Period..... Minutes 45 (D) 1247 P.S.I.
 Final Flow Period..... Minutes 30 (E) 662 P.S.I. to (F) 987 P.S.I.
 Final Closed In Period..... Minutes 60 (G) 1251 P.S.I.
 Final Hydrostatic Pressure..... (H) 2020 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.



Diamond Testing General Report

**JAKE
FAHRENBRUCH - TESTER
Cell: (620) 282-8977**

P.O. Box 157
Hoisington KS 67544
Office: (800) 542-7313

General Information

Company Name H D Exploration, LLC
Well Operator H D Exploration, LLC
Contact Gerald Achatz
Site Contact Scott Alberg
Field NA
Well Type Vertical
Prepared By Jake Fahrenbruch

Well Name
Unique Well ID DST #4 Mississippian 3966'-4028'
Surface Location Sec 21-25s-12w-Stafford Co.-KS
Test Unit #5
Pool NA
Job Number F232
Qualified By Scott Alberg

Test Information

Test Type Bottom-Hole w/J&J
Formation Mississippi 3966'-4028'
Start Test Date 2014/01/19
Final Test Date 2014/01/19

Test Purpose Initial Test
Gauge Name Inside 5951
Start Test Time 02:05:00
Final Test Time 11:12:00

Test Results

30 minute initial flow period: Strong blow at B.O.B. in 30 seconds, G.T.S. in 13 minutes.
45 minute initial shut-in period: Bled off pressure, blowback increased to B.O.B. in 10 minutes.
45 minute final flow period: Gauge gas, pressure decreased from 10 psi to 3 psi.
60 minute final shut-in period: Bled off pressure, blowback increased to B.O.B in 4 minutes.

Gas Flow Rates:	Initial flow	Choke	PSI	CF/D
	13 minutes	.25"	33	66,200
	20 minutes	.25"	37.5	72,900
	30 minutes	.25"	37.5	72,900
	Final Flow	Choke	PSI	CF/D
	10 minutes	.25"	10	30,800
	20 minutes	.25"	8	27,000
	30 minutes	.25"	6	22,900
	40 minutes	.25"	4	18,500
	45 minutes	.25"	3	15,700

Recovered: 240' ----- Gassy SOC MCW ----- 25% gas, 5% oil, 20% wtr, 50% mud
240' ----- GC M&OCW ----- 15% gas, 20% oil, 50% wtr, 15% mud
530' ----- GC M&OCW ----- 10% gas, 15% oil, 65% wtr, 15% mud
190' ----- SGC Water ----- 5% gas, -----, 95% wtr, -----
----- 1200' Total fluid Recovered.
----- Chlorides: 33,000 ppm
----- RW: .145 ohm @ 58 deg F
----- PH: 7
----- Bottom-Hole Temp: 121 deg F

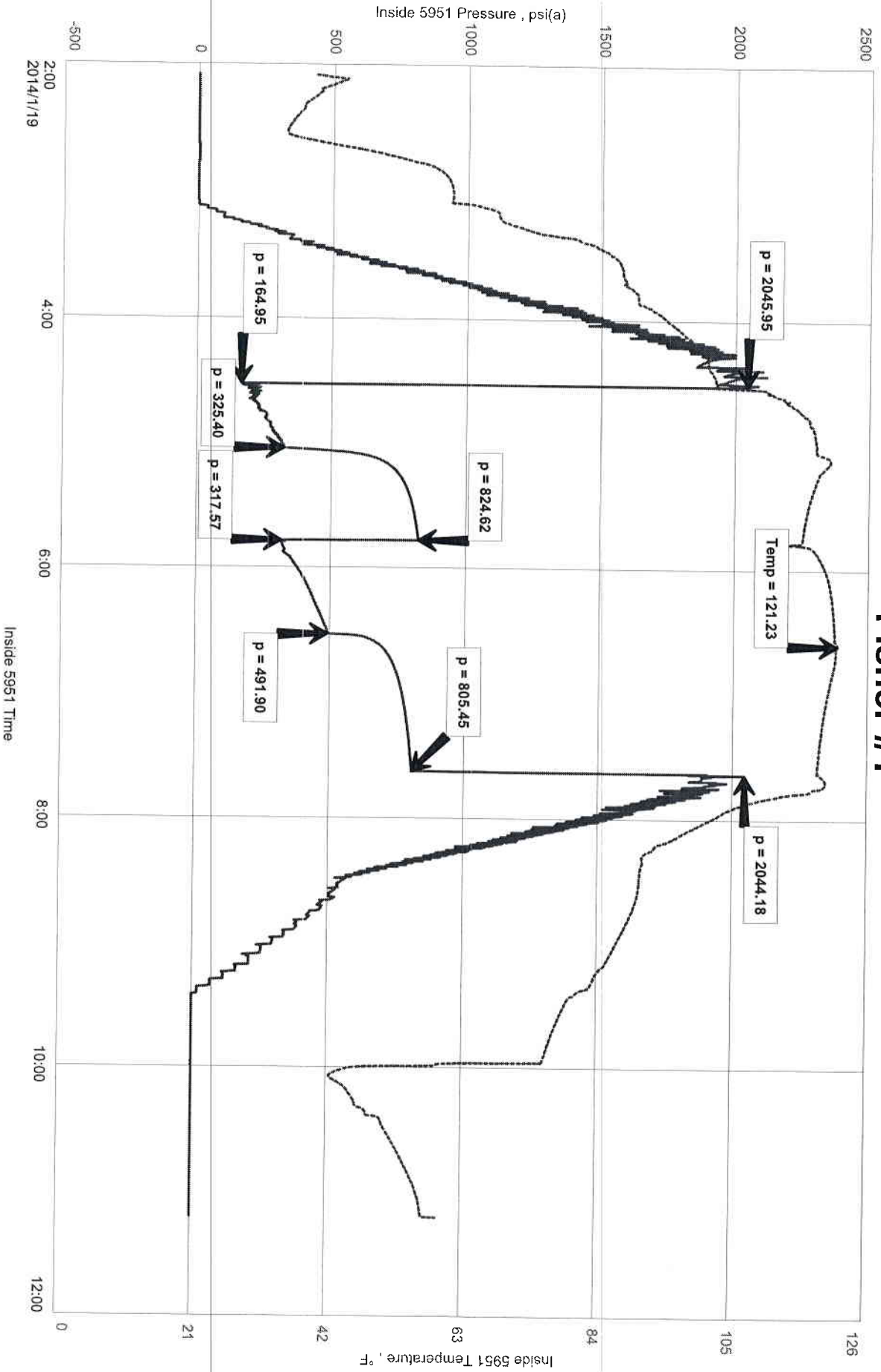
Pressures: IHP: 2046
IFP: 165 - 325
ISIP: 825
FFP: 318 - 492
FSIP: 805
FHP: 2044

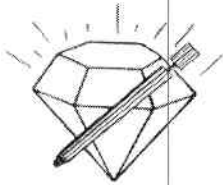
Thanks!

HD Exploration, LLC
 DST #4 Mississippi 3966' 4028'
 Start Test Date: 2014/01/19
 Final Test Date: 2014/01/19

Fisher #1

Fisher #1
 Formation: Mississippi 3966'-4028'
 Pool: NA
 Job Number: F232





DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: FISHER1DST4

TIME ON: 2:05 AM

TIME OFF: 11:12 AM

Company H D Exploration, LLC

Lease & Well No. Fisher #1

Contractor Southwind Drilling

Rig #6

Charge to H D Exploration, LLC

Elevation 1868' KB

Formation

Mississippi

Effective Pay

Ft. Ticket No.

F232

Date 1-19-14 Sec. 21

Twp.

25 S Range

12 W County

Stafford

State

KANSAS

Test Approved By Scott Alberg

Diamond Representative

Jake Fahrenbruch

Formation Test No. FOUR Interval Tested from 3966 ft. to 4028 ft. Total Depth 4028 ft.

Packer Depth 3961 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Packer Depth 3966 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3944 ft. Recorder Number 5951 Cap. 5,000 P.S.I.

Bottom Recorder Depth (Outside) 3945 ft. Recorder Number 0062 Cap. 5,000 P.S.I.

Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chemical Viscosity 55 Drill Collar Length _____ ft. I.D. 2 1/4 in.

Weight 9.3 Water Loss 10.2 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.

Chlorides 11,000 P.P.M. Drill Pipe Length 4033 ft. I.D. 3 1/2 in.

Jars: Make STERLING Serial Number #5 J&J Test Tool Length 33 ft. Tool Size 3 1/2-IF in.

Did Well Flow? **G.T.S** Reversed Out NO Anchor Length 62 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: Strong blow @ B.O.B. in 30 seconds, G.T.S. in 13 minutes. Blowback @ B.O.B.

2nd Open: Guage gas. Decreased from 10 psi to 3 psi on .25" choke. Strong blowback @ B.O.B.

Recovered 240 ft. of Gassy SOC MCW 25% gas, 5% oil, 20% wtr, 50% mud

Recovered 240 ft. of GC M&OCW 15% gas, 20% oil, 50% wtr, 15% mud

Recovered 530 ft. of HC M&OCW 10% gas, 15% oil, 65% wtr, 15% mud

Recovered 190 ft. of SGCW 5% gas, _____ 95% wtr _____

Recovered _____ ft. of Total Recovered Fluid: 1200'

Recovered _____ ft. of _____

Remarks: Chlorides: 33,000 PPM

RW: .145 ohm @ 58 deg F

PH: 7

Price Job

Other Charges

Insurance

Total

Time Set Packer(s) 4:30 AM A.M. P.M. Time Started Off Bottom 7:30 AM A.M. P.M. Maximum Temperature 121 Deg F

Initial Hydrostatic Pressure..... (A) 2046 P.S.I.

Initial Flow Period..... Minutes 30 (B) 165 P.S.I. to (C) 325 P.S.I.

Initial Closed In Period..... Minutes 45 (D) 825 P.S.I.

Final Flow Period..... Minutes 45 (E) 318 P.S.I. to (F) 492 P.S.I.

Final Closed In Period..... Minutes 60 (G) 805 P.S.I.

Final Hydrostatic Pressure..... (H) 2044 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.



Diamond Testing General Report

**JAKE
FAHRENBRUCH - TESTER
Cell: (620) 282-8977**

P.O. Box 157
Hoisington KS 67544
Office: (800) 542-7313

General Information

Company Name HD Exploration LLC
Well Operator HD Exploration LLC
Contact Gerald Achatz
Site Contact Josh Austin
Field NA
Well Type Vertical
Prepared By

Well Name Hearn-Debes Unit #1
Unique Well ID DST #2 Lansing "K&L" 3745'-3810'
Surface Location Sec 3-25s-12w-Stafford Co.-KS
Test Unit #5
Pool NA
Job Number
Qualified By

Test Information

Test Type Bottom-Hole w/no special equip.
Formation Lansing "K&L" 3745'-3810'
Start Test Date 2014/01/30
Final Test Date 2014/01/30

Test Purpose Initial Test
Gauge Name Outside 5584
Start Test Time 06:18:00
Final Test Time 13:15:00

Test Results

30 minute initial flow period: Strong blow @ BOB in 30 seconds. GTS 18 minutes.
45 minute initial shut-in period: Bled off, no blowback.
45 minute final flow period: Strong blow @ BOB immediately. Guaged gas.
60 minute final shut-in period: Bled off, strong blowback.

Recovered:

370' Very Gassy HOCM 50% gas, 17% oil, 33% mud
125' Very Gassy HMCO 45% gas, 35% oil, 20% mud
----- Total Fluid Recovered: 495'
----- Maximum Gas Flow Rate: 45,500 CF/D
----- Gas In Pipe: 3225'
----- Bottom-Hole Temp: 108 Deg F

Pressures:

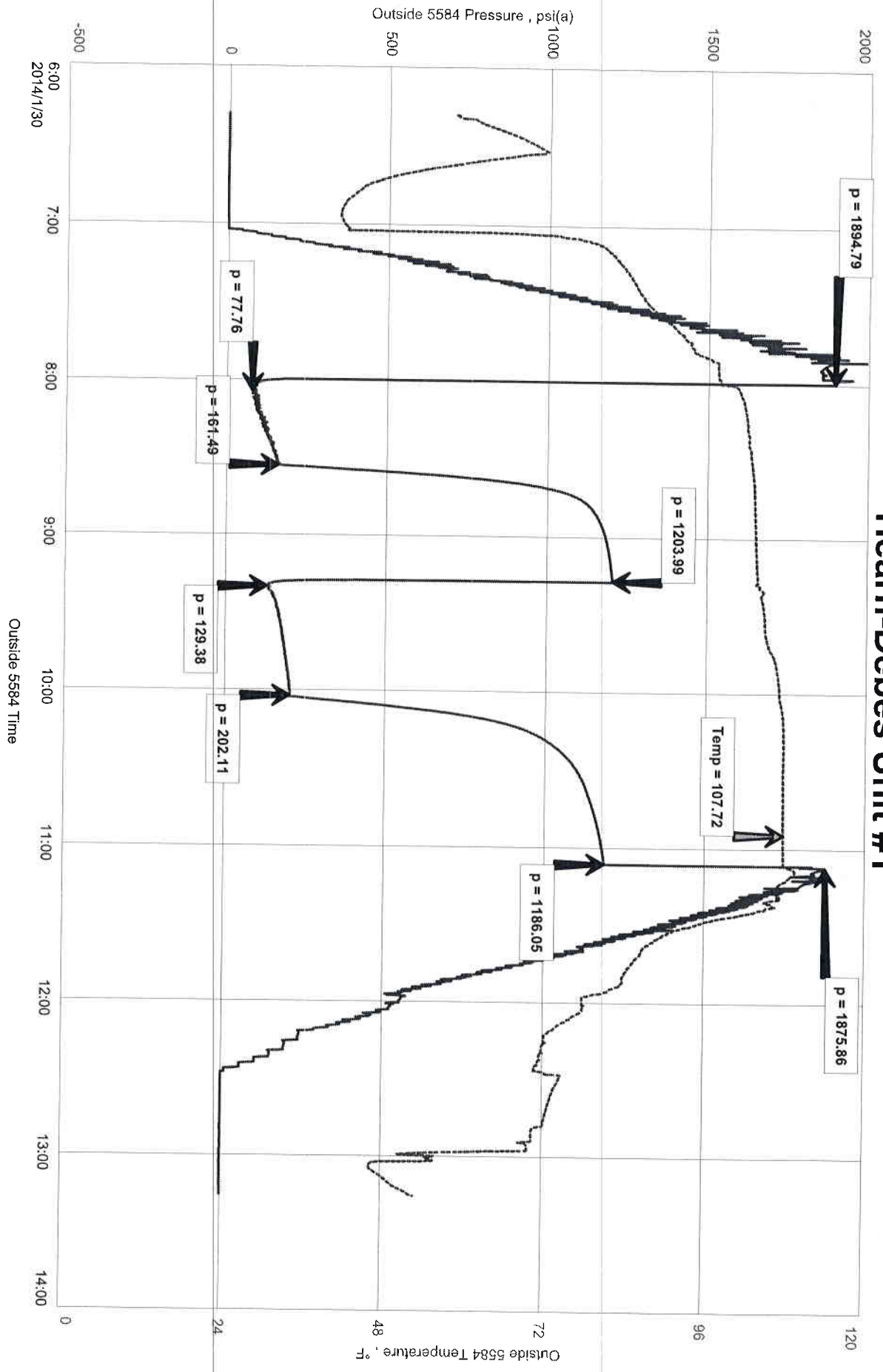
IHP: 1895
IFP: 79-161
ISIP: 1204
FFP: 129-202
FSIP: 1186
FHP: 1876

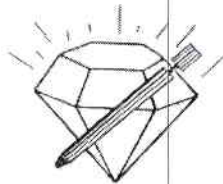
Thanks

HD Exploration LLC
 DST #2 Lansing "K&L" 3745'-3810'
 Start Test Date: 2014/01/30
 Final Test Date: 2014/01/30

Hearn-Debes Unit #1

Hearn-Debes Unit #1
 Formation: Lansing "K&L" 3745'-3810'
 Pool: NA





DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: HDU1DST2

TIME ON: 6:18 AM

TIME OFF: 1:15 PM

Company HD Exploration LLC

Lease & Well No. Hearn-Debes Unit #1

Contractor Southwind Drilling

Rig #6

Charge to HD Exploration LLC

Elevation 1876' KB

Formation

Lansing "K&L"

Effective Pay

----- Ft. Ticket No.

F238

Date 1-30-14 Sec. 3

Twp. 25 S

Range

12 W County

Stafford

State

KANSAS

Test Approved By Josh Austin

Diamond Representative

Jake Fahrenbruch

Formation Test No. TWO Interval Tested from 3745 ft. to 3810 ft. Total Depth 3810 ft.

Packer Depth 3740 ft. Size 6 3/4 in. Packer depth ----- ft. Size 6 3/4 in.

Packer Depth 3745 ft. Size 6 3/4 in. Packer depth ----- ft. Size 6 3/4 in.

Depth of Selective Zone Set -----

Top Recorder Depth (Inside) 3731 ft. Recorder Number 5951 Cap. 5,000 P.S.I.

Bottom Recorder Depth (Outside) 3780 ft. Recorder Number 5584 Cap. 5,000 P.S.I.

Below Straddle Recorder Depth ----- ft. Recorder Number ----- Cap. ----- P.S.I.

Mud Type Chemical Viscosity 61 (.5# LCM) Drill Collar Length ----- ft. I.D. 2 1/4 in.

Weight 9.1 Water Loss 7.6 cc. Weight Pipe Length ----- ft. I.D. 2 7/8 in.

Chlorides 7700 P.P.M. Drill Pipe Length 3720 ft. I.D. 3 1/2 in.

Jars: Make STERLING Serial Number ----- Test Tool Length 25 ft. Tool Size 3 1/2-IF in.

Did Well Flow? GTS Reversed Out NO Anchor Length 65 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: Strong blow @ BOB in 30 seconds. GTS in 18 minutes. Bled off, no blowback.

2nd Open: Strong blow @ BOB immediately. Guaged Gas. Bled off, strong blowback.

Recovered 370 ft. of Very Gassy HOCM 50% gas, 17% oil, 33% mud

Recovered 125 ft. of Very Gassy HMCO 45% gas, 35% oil, 20% mud

Recovered ----- ft. of Total Fluid Recovered: 495'

Recovered ----- ft. of Maximum Gas Flow Rate: 45,500 CF/D

Recovered ----- ft. of Gas In Pipe: 3225'

Recovered ----- ft. of

Remarks:

Price Job

Other Charges

Insurance

108 round trip miles f/DST #2

Total

Time Set Packer(s) 8:00 AM A.M. P.M. Time Started Off Bottom 11:00 AM A.M. P.M. Maximum Temperature 108 Deg F

Initial Hydrostatic Pressure..... (A) 1895 P.S.I.

Initial Flow Period..... Minutes 30 (B) 78 P.S.I. to (C) 161 P.S.I.

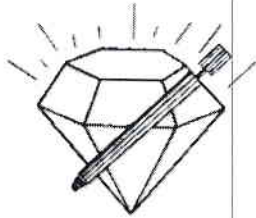
Initial Closed In Period..... Minutes 45 (D) 1204 P.S.I.

Final Flow Period..... Minutes 45 (E) 129 P.S.I. to (F) 202 P.S.I.

Final Closed In Period..... Minutes 60 (G) 1186 P.S.I.

Final Hydrostatic Pressure..... (H) 1876 P.S.I.

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DIAMOND TESTING
 P. O. Box 157
HOISINGTON, KANSAS 67544
 (316) 653-7550
GAS VOLUME REPORT

Company H D Exploration LLC Lease & Well No. Hearn-Debes Unit #1
 Date 1-30-14 Sec. 3 Twp. 25S Rge. 12W Location _____ County Stafford State KS
 Drilling Contractor Southwind #6 Formation Lansing "K&L" DST No. 2
 Remarks: G.T.S. 18 minutes into initial flow period. Gas sample recovered.

INITIAL FLOW

Time O'Clock	Orifice Size	Gauge	CF/D
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	

FINAL FLOW

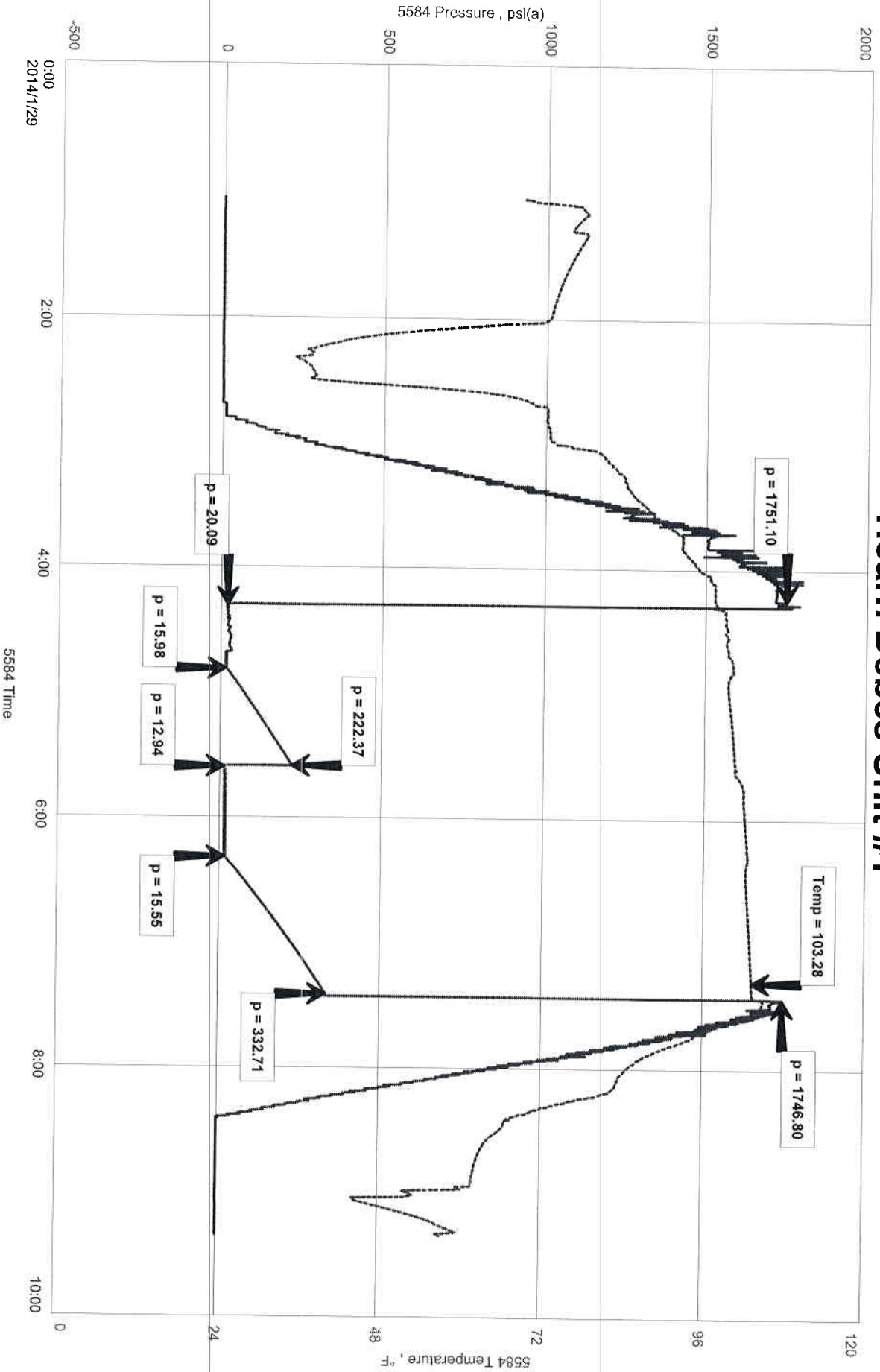
Time O'Clock	Orifice Size	Gauge	CF/D
	.25 in.	PSI in.	
9:20am	" in.	10 in.	30,800
9:30am	" in.	19 in.	45,500
9:40am	" in.	19 in.	45,500
*9:50am	" in.	17 in.	42,400
10:00am	" in.	16 in.	40,900
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	

*SAMPLE TAKEN
 FINAL FLOW

HD Exploration LLC
DST #1 Lansing "B" 3545'-3580'
Start Test Date: 2014/01/29
Final Test Date: 2014/01/29

Hearn Debes Unit #1

Hearn Debes Unit #1
Formation: Lansing "B" 3545'-3580'
Pool: NA
Job Number: F237





Diamond Testing General Report

**JAKE
FAHRENBRUCH - TESTER
Cell: (620) 282-8977**

P.O. Box 157
Hoisington KS 67544
Office: (800) 542-7313

General Information

Company Name HD Exploration LLC
Well Operator HD Exploration LLC
Contact Gerald Achatz
Site Contact Josh Austin
Field NA
Well Type Vertical
Prepared By Jake Fahrenbruch

Well Name Hearn Debes Unit #1
Unique Well ID DST #1 Lansing "B" 3545'-3580'
Surface Location Sec 3-25s-12w-Stafford Co.-KS
Test Unit #5
Pool NA
Job Number F237
Qualified By Josh Austin

Test Information

Test Type Bottom-Hole w/no special equip.
Formation Lansing "B" 3545'-3580'
Start Test Date 2014/01/29
Final Test Date 2014/01/29

Test Purpose Initial Test
Gauge Name 5584
Start Test Time 01:03:00
Final Test Time 09:20:00

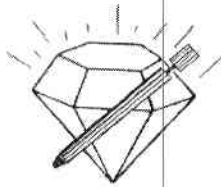
Test Results

30 minute initial flow period: Fairly strong blow. B.O.B. in 6 minutes.
45 minute initial shut-in period: Bled-off, very weak surface blow-back.
45 minute final flow period: Strong blow. B.O.B. immediately. No G.T.S.
60 minute final shut-in period: Bled-off, very weak surface blow-back.

Recovered: 15' Drilling Mud
1200' G.I.P.
Bottom-Hole Temp: 103 Deg F

Pressures:
IHP: 1751
IFP: 20-16
ISIP: 222
FFP: 13-15
FSIP: 333
FHP: 1747

Thanks



DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: HDU1DST1

TIME ON: 1:03 AM
 TIME OFF: 9:20 AM

Company HD Exploration LLC Lease & Well No. Hearn-Debes Unit #1
 Contractor Southwind Drilling Rig # Charge to HD Exploration LLC
 Elevation 1876' KB Formation Lansing "B" Effective Pay Ft. Ticket No. F237
 Date 1-29-14 Sec. 3 Twp. 25 S Range 12 W County Stafford State KANSAS
 Test Approved By Josh Austin Diamond Representative Jake Fahrenbruch

Formation Test No. ONE Interval Tested from 3545 ft. to 3580 ft. Total Depth 3580 ft.
 Packer Depth 3540 ft. Size 6 3/4 in. Packer depth ft. Size 6 3/4 in.
 Packer Depth 3545 ft. Size 6 3/4 in. Packer depth ft. Size 6 3/4 in.
 Depth of Selective Zone Set

Top Recorder Depth (Inside) 3531 ft. Recorder Number 5951 Cap. 5,000 P.S.I.
 Bottom Recorder Depth (Outside) 3546 ft. Recorder Number 5584 Cap. 5,000 P.S.I.
 Below Straddle Recorder Depth ft. Recorder Number Cap. P.S.I.

Mud Type Chemical Viscosity 61 (1.5# LCM) Drill Collar Length ft. I.D. 2 1/4 in.
 Weight 9.0 Water Loss 8.0 cc. Weight Pipe Length ft. I.D. 2 7/8 in.
 Chlorides 5800 P.P.M. Drill Pipe Length 3520 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number Test Tool Length 25 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? NO Reversed Out NO Anchor Length 35 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: Fairly strong blow, B.O.B. in 6 minutes. Very weak surface blow-back.
 2nd Open: Strong blow, B.O.B. immediately. No G.T.S. Very weak surface blow-back.

Recovered 15 ft. of Drilling Mud
 Recovered ft. of 1200' G.I.P.
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:	Price Job
	Other Charges
	Insurance
	Total

Time Set Packer(s) 4:18 AM A.M. P.M. Time Started Off Bottom 7:18 AM A.M. P.M. Maximum Temperature 103 Deg F

Initial Hydrostatic Pressure..... (A) 1751 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 20 P.S.I. to (C) 16 P.S.I.
 Initial Closed In Period..... Minutes 45 (D) 222 P.S.I.
 Final Flow Period..... Minutes 45 (E) 13 P.S.I. to (F) 15 P.S.I.
 Final Closed In Period..... Minutes 60 (G) 333 P.S.I.
 Final Hydrostatic Pressure..... (H) 1747 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.