



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
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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: _____



1146590

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 Bbbs.	Gas Mcf	Water Bbbs.	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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Hess Oil Company
Well Name	Becky #1
Doc ID	1146590

Tops

Name	Top	Datum
Anhydrite	1627	+716
Base Anhydrite	1662	+681
Heebner	3737	-1394
Lansing	3777	-1434
Base Kansas City	4065	-1722
Marmaton	4123	-1780
Pawnee	4165	-1822
Ft. Scott	4257	-1914
Cherokee Shale	4280	-1937
Mississippi	4379	-2036
RTD	4395	-2052



PHIL ASKEY
PETROLEUM GEOLOGIST



GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY Hess Oil Company

LEASE Becky #1

FIELD Wildcat

LOCATION 1650' ESL & 2100' FWL

SEC 26 TWP 17 S RGE 23 W

COUNTY Nowa STATE Kansas

CONTRACTOR Mallard Drilling, J.V. Inc.

SPUD 4-8-13 COMP 4-16-13

RTD 4395' LTD —

MUD UP 3397' TYPE MUD Chemical-Mud-C

SAMPLES EXAMINED FROM 3700' TO RTD

DRILLING TIME KEPT FROM 3500' TO RTD

GEOLOGICAL SUPERVISION FROM 3720' TO RTD/LTD

GEOLOGIST ON WELL Phil Askey, R.G.

ELEVATIONS

KB 2343'

GL 2338'

Measurements Are From KB

API # 15-135-25571

CASING

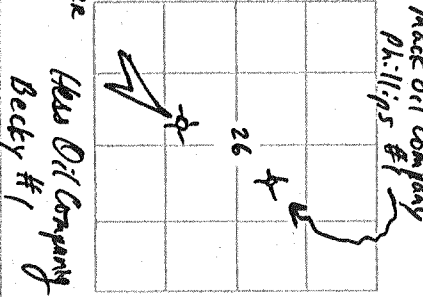
SURFACE 878' @ 219' w/ 2005x5

PRODUCTION —

ELECTRICAL SURVEYS —

FORMATION TOPS	LOG	SAMPLES	+/-
Anhy	No logs	1627 +716	+6
Heebner		3737 -1394	+11
Lansing		3777 -1434	+12
B/kc		4065 -1722	+11
Magnaton		4123 -1780	+11
Paunee		4165 -1822	+12
FtCott		4257 -1914	+13
Cherokee Shale		4280 -1937	+9
MISSISSIPPI		4379 -2036	-13
RTD		4395 -2052	48'

REFERENCE WELL



REMARKS

The Hess Oil Company, Becky #1, ran structurally high to the key reference well, Mack Oil Company, Phillips #1 from the Anhy to the Cherokee Shale. Thickening of the Congl shale section above the Mississippi resulted in a lower Mississippi structure. All sample shows were DST'd with non-commercial results (DST #1 & 2). It was decided to not run logs and to plug the well after salt water was recovered on the Mississippi test (DST #2).

Phil Askey, R.G.

LEGEND

Anhydrite	Salt	Sandstone	Shale	Carb sh	Limestone	Ool.Limo	Chert	Dolomite

SCALE " = 100'

DRILLING TIME IN MINUTES

PER FOOT
Rate of Penetration Increases

DEPTH

5" 10" 15" 20" 25"

LITHOLOGY

SAMPLE DESCRIPTIONS

REMARKS

1600

Anky 1627 (+716)

50

B/Anky 1662 (+681)

3500

50

Samples 10' wet + dry
3700' - RTD

Rig data:

WOB 32K * PP 800-1000 #

SPM 60 RPM 60-70

* (drill pipe was 4 drill collars missing due to collar repairs) (short)

Bit data:

Smith F-27 7 7/8"
219' 4345' 116 3/4 hrs (35.34 ft/hr)

Smith F-27 7 7/8" RR
4345' 4395' 2 1/2 hrs (20 ft/hr)

Dev Surveys:

1/2° @ 219'

1° @ 4345'

DSTs 2 by Tri-labite Testing

3600

Geograph
clock stopped

50

3700

Hebner 3737 (-1394)

50

Lansing 3777 (-1434)

3800

Pipe strap @ 4345'

Board 4357.34'

Strap 4356.82'

Pipe short .52'

LS, crm, firm, v f-fxlw, tr fss
scat wh offsh, shchky-ckky, scat oil-ppt
fr interl ϕ , NS
scat ch, wh tan semitrnal, fresh

LS, crm tan qy, firm, v f-fxlw
tr shchky-ckky, scat fss, fr xlv ϕ , NS

SH, blk, fis, carb
LS, tan, lt-mgqbd qy, firm-dns
micro-fxlw, fss, ppt, NS
SH, m-dky, rdbrw, q-n, rd, fishy

LS, crm offsh, firm, shchky-ckky
v f-fxlw, tr fr fss, scat xlv ϕ , NS
scat ch, wh semitrnal, fresh

SH, dky rdbrw-brd, fr col, blk
sm stly

LS, offsh-ck crm ultqy, firm
micro-fxlw, shchky-ckky,
tr tan qy dns, cpts-microxlv, fss
tr ch tan, NS
scat brd

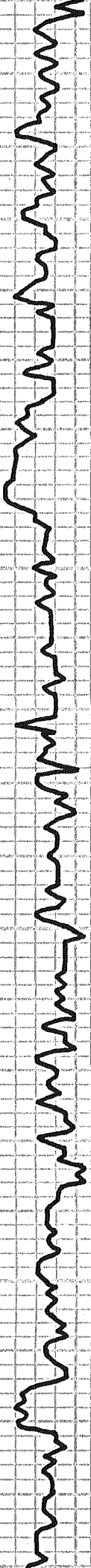
LS, tan lt-brw lt-mgqy, firm-dns
micro-fxlw, sm fss, tr m-dky, dns
pxlv ϕ , NS
intd SH's, lt-dky, blk, qy qd qy
tr ch, wh tan, semitrnal, fresh

50

3900

50

4000



LS, tan H-mgubm crm, firm-dns
 fr chky, micro-cyto xls, sm VF xls
 N vis ϕ , NS fr Ch, tan-brn

SH, dkgy-blk shcml

LS, crm offwh tan, firm, fr dns,
 fr shchky-chky, vf-fslr, fr fss,
 scat Ch, wh crm semitrnl, frns, NS

LS, d/a, fr brn-gyben, dng,
 cyto-micro xls
 sm cat, cr/a, fr fss, NS

LS, H crm-offwh, firm, vf-fslr,
 scat ool-vngp, sm fr xls-ool-vngp ϕ
 NS fr shchky-chky, 5 pc Ch, 14gy-wh

SH, qy^r rdbrn-brn

LS, more tan H-mgubm-brn,
 firm-dns, micro-fslr, sm cyto xls,
 fr xls ϕ , NS scat shchky-chky

SH, dkgy-blk
 sm 94-99grn

LS, tan shcn, mostly dns,
 micro xls, N vis ϕ , NS
 3 pc brn, dns-chky, cyto xls
 SH, d/a, blk-carb

rdbrn-brn, 94-99grn, blk

LS, offwh-crm tan, firm, sm dns, plty
 vf-fslr, scat xls ϕ , NS sm arg
 scat 14gy tan, firm-dns, cyto xls, NS

SH, mdky 94grn-grn rdbrn-brn
 tr ool

LS, offwh-H crm 14gy, vf-fslr
 firm, scat wh chky, tr ool,
 scat xls ϕ , tr ool ϕ , NS
 fr tan-crm fss Ch
 2 pc ss, cl 14gy firm, n-crm, intgrn ϕ , NS
 SH, m-dky 94grn-grn sm blk, carb
 2 pc pyr

LS, offwh-crm-tan, firm,
 vf-fslr, fr shchky-chky,
 scat ool-xls ϕ , fr vngp ϕ , NS

LS, offwh-crm-tan, sm 94-99grn-brn,
 firm-dns, micro-fslr, fr chky,
 fr fss

Mud-Co data @ 3943'
 wt 9.1 vis 44 wl 2.8 solids 5.4%
 pH 8.5 cl 5,400 ppm lcm 0[#] YP 13

DEPTH	DRILLING TIME Minutes/Foot	LITHOLOGY	SAMPLE DESCRIPTIONS	REMARKS
	<div style="display: flex; justify-content: space-around;"> 5" 10" 15" 20" 25" </div> <p style="text-align: center;">Rate of Penetration Increases </p>			

COMPANY Hess Oil Company
 LEASE Becky #1
 LOCATION 1650' FSL & 2100' FWL SEC 26 TWP 17S RNG 23W
 COUNTY Ness STATE Kansas

ELEVATION: 2343' KB

ALLIED OIL & GAS SERVICES, LLC

050402

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:
Great Bend, KS

DATE <u>4-16-13</u>	SEC. <u>26</u>	TWP. <u>17S</u>	RANGE <u>23W</u>	CALLED OUT	ON LOCATION <u>1:20PM</u>	JOB START <u>3:30PM</u>	JOB FINISH <u>5:00PM</u>
LEASE <u>Becky</u>		WELL # <u>1</u>		Bazine: 6 miles West, 6 miles North, LOCATION <u>1/2 mile West, North into Loc.</u>		COUNTY <u>Ness</u>	STATE <u>KS</u>
OLD OR (NEW) (Circle one)							

CONTRACTOR McDonald
TYPE OF JOB PTA

HOLE SIZE <u>7 7/8"</u>	T.D. <u>4395 ft</u>
CASING SIZE <u>8 7/8"</u>	DEPTH <u>2194 ft</u>
TUBING SIZE	DEPTH
DRILL PIPE <u>4 1/2" 16.60</u>	DEPTH <u>1700 ft</u>
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG.	
PERFS.	
DISPLACEMENT <u>WBM + FW</u>	
EQUIPMENT	
PUMP TRUCK # <u>398</u>	CEMENTER <u>Charles E. Kins</u>
	HELPER <u>Josh Isaac</u>
BULK TRUCK # <u>344/170</u>	DRIVER <u>Joel Monahan</u>
BULK TRUCK #	DRIVER

OWNER Hess Oil Company

CEMENT
AMOUNT ORDERED 240 sy 60/140 + 420 Gal
+ .25% Flo-Seal

COMMON	<u>174</u>	@ <u>17.90</u>	<u>2,577.60</u>
POZMIX	<u>96</u>	@ <u>9.35</u>	<u>897.60</u>
GEL	<u>80</u>	@ <u>23.40</u>	<u>187.20</u>
CHLORIDE		@	
ASC		@	
<u>Flo Seal</u>	<u>62</u>	@ <u>2.97</u>	<u>184.14</u>
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>257.46</u>	@ <u>2.48</u>	<u>638.50</u>
MILEAGE	<u>10.75 X 12X</u>	<u>2.60</u>	<u>335.20</u>
TOTAL			<u>4,820.44</u>

REMARKS:

Plug 1 @ 1700ft: 6FW, 12.5cm², 2FW, 17WBM (50sy)

Plug 2 @ 1900ft: 6FW, 20cm², 7FW (80sy)

Plug 3 @ 250ft: 6FW, 10cm², .5FW (40sy)

Plug 4 @ 600ft: 5cm² (20sy)

Plug Rat Hole with 75 bbls (30sy)

Plug Mouse Hole with 5 bbls (20sy)

SERVICE

DEPTH OF JOB	
PUMP TRUCK CHARGE	<u>2249.24</u>
EXTRA FOOTAGE	@
MILEAGE	<u>HUM 12 @ 7.70 = 92.40</u>
MANIFOLD	@
	<u>LUM 12 @ 4.40 = 52.80</u>
	@

CHARGE TO: Hess Oil Company

STREET _____

CITY _____ STATE _____ ZIP _____

TOTAL 2,394.44

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
TOTAL _____		

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cement and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (if Any) _____

TOTAL CHARGES 7,214.88

DISCOUNT 1,803.72 IF PAID IN 30 DAYS

5,411.16

PRINTED NAME Sustin McDonald

SIGNATURE



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Hess Oil Company
PO Box 1009
McPherson Ks 67460-1009
ATTN: Bryan Hess

26-17s-23w Ness
Becky #1
Job Ticket: 52564 **DST#: 1**
Test Start: 2013.04.15 @ 08:45:18

GENERAL INFORMATION:

Formation: **Ft.Scott-Cher Sd**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 10:46:13 Tester: Ray Schwager
Time Test Ended: 13:29:57 Unit No: 42
Interval: 4264.00 ft (KB) To 4345.00 ft (KB) (TVD) Reference Elevations: 2348.00 ft (KB)
Total Depth: 4345.00 ft (KB) (TVD) 2343.00 ft (CF)
Hole Diameter: 7.85 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

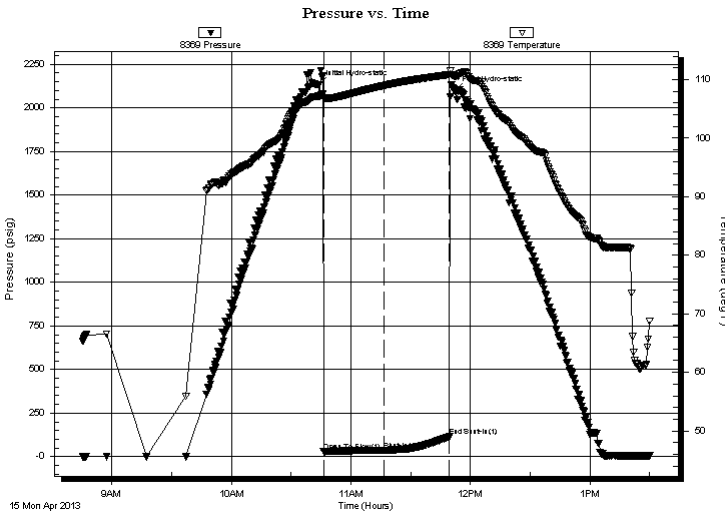
Serial #: 8369

Inside

Press @ Run Depth: 37.10 psig @ 4277.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.04.15 End Date: 2013.04.15 Last Calib.: 2013.04.15
Start Time: 08:45:18 End Time: 13:29:57 Time On Btm: 2013.04.15 @ 10:43:43
Time Off Btm: 2013.04.15 @ 11:52:13

TEST COMMENT: 30-IFP-w k bl thru-out 1/4"bl
30-ISIP-no bl
pulled tool

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2130.44	107.17	Initial Hydro-static
3	29.59	106.87	Open To Flow (1)
33	37.10	109.00	Shut-In(1)
66	115.22	110.87	End Shut-In(1)
69	2098.80	110.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud w/show of oil	0.05

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hess Oil Company
PO Box 1009
McPherson Ks 67460-1009
ATTN: Bryan Hess

26-17s-23w Ness
Becky #1
Job Ticket: 52564 **DST#: 1**
Test Start: 2013.04.15 @ 08:45:18

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.76 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6500.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud w/show of oil	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

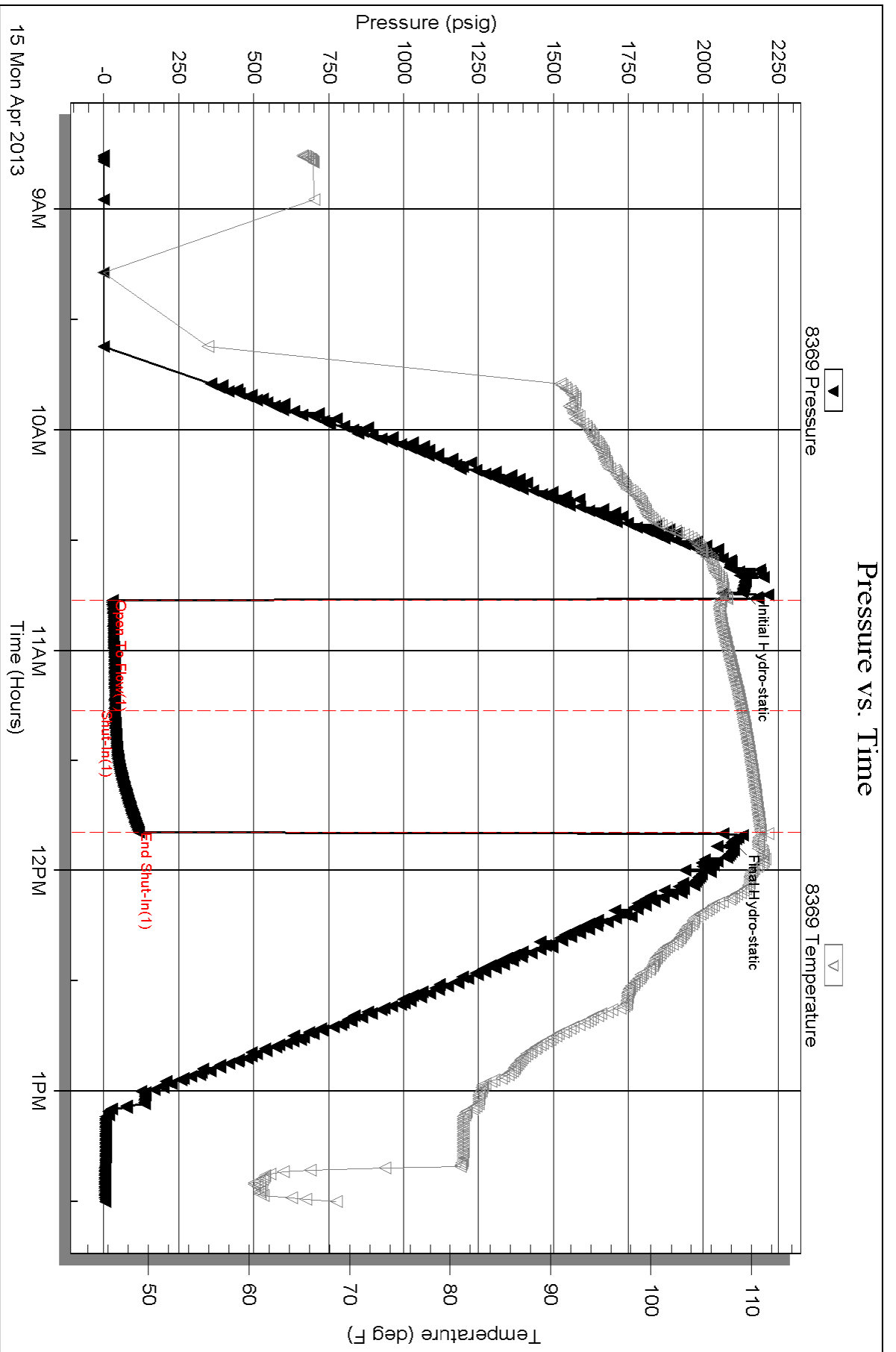
Serial #: 8369

Inside

Hess Oil Company

Becky #1

DST Test Number: 1





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Hess Oil Company
 PO Box 1009
 McPherson Ks 67460-1009
 ATTN: Bryan Hess

26-17s-23w Ness
Becky #1
 Job Ticket: 52565 **DST#: 2**
 Test Start: 2013.04.15 @ 23:45:53

GENERAL INFORMATION:

Formation: **Miss**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:19:18
 Time Test Ended: 07:44:47
 Interval: **4311.00 ft (KB) To 4395.00 ft (KB) (TVD)**
 Total Depth: 4395.00 ft (KB) (TVD)
 Hole Diameter: 7.85 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ray Schwager
 Unit No: 42
 Reference Elevations: 2348.00 ft (KB)
 2343.00 ft (CF)
 KB to GR/CF: 5.00 ft

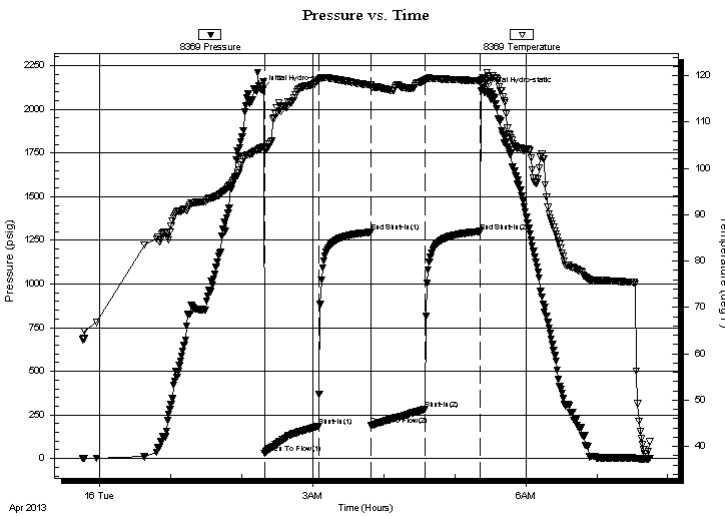
Serial #: 8369

Inside

Press @ Run Depth: 280.80 psig @ 4313.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.04.15 End Date: 2013.04.16 Last Calib.: 2013.04.16
 Start Time: 23:45:53 End Time: 07:44:47 Time On Btm: 2013.04.16 @ 02:16:48
 Time Off Btm: 2013.04.16 @ 05:24:47

TEST COMMENT: 45-IFP-w k to strg in 40min
 45-ISIP-no bl
 45-FFP-w k to a fr bl , surface to 4"bl
 45-FSIP-no bl

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2111.02	104.38	Initial Hydro-static
3	29.93	103.94	Open To Flow (1)
49	186.24	119.04	Shut-In(1)
93	1296.92	117.96	End Shut-In(1)
93	191.05	117.60	Open To Flow (2)
138	280.80	118.95	Shut-In(2)
185	1300.86	118.91	End Shut-In(2)
188	2099.42	119.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
200.00	MW 25%M75%W	0.98
380.00	Water	4.97

* Recovery from multiple tests

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hess Oil Company
PO Box 1009
McPherson Ks 67460-1009
ATTN: Bryan Hess

26-17s-23w Ness
Becky #1
Job Ticket: 52565 **DST#: 2**
Test Start: 2013.04.15 @ 23:45:53

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	32000 ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.77 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5400.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
200.00	MW 25%M75%W	0.984
380.00	Water	4.966

Total Length: 580.00 ft Total Volume: 5.950 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: RW .27@55F

Pressure vs. Time

