KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1059919

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 # 5663
Name: Hess Oil Company
Address 1: PO BOX 1009
Address 2:
City: MCPHERSON State: KS Zip: 67460 + 1009
Contact Person: Bryan Hess
Phone: (620) 241-4640
CONTRACTOR: License # 4958
Name: Mallard, J. V., Inc.
Wellsite Geologist: David Barker
Purchaser:

Designate Type of Completion:

- [x] New Well
- [ ] Re-Entry
- [ ] Workover

- [ ] Oil
- [ ] WSW
- [ ] SWD
- [ ] SIOW
- [ ] Gas
- [x] 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 #:

5/23/2011	5/31/2011	5/31/2011
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-135-25246-00-00
Spot Description:
_ - W2 - NE - NW Sec. 30 Twp. 17 S. R. 22 [ ] East [x] West
660 Feet from [x] North / [ ] South Line of Section
1650 Feet from [ ] East / [x] West Line of Section
Footages Calculated from Nearest Outside Section Corner:
[ ] NE [x] NW [ ] SE [ ] SW
County: Ness
Lease Name: Pamela Well #: 1
Field Name:
Producing Formation: na
Elevation: Ground: 2317 Kelly Bushing: 2325
Total Depth: 4358 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 221 Feet
Multiple Stage Cementing Collar Used? [ ] Yes [x] 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: 0 ppm Fluid volume: 0 bbls
Dewatering method used: Evaporated
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**
- [x] **Geologist Report Received**
- [ ] **UIC Distribution**

ALT [ ] I [x] II [ ] III **Approved by:** Deanna Garrisor **Date:** 08/11/2011

Side Two

1059919

Operator Name: Hess Oil Company Lease Name: Pamela Well #: 1

Sec. 30 Twp. 17 S. R. 22 ☐ East ☑ West County: Ness

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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☑ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☐ Yes ☑ No

Electric Log Submitted Electronically ☐ Yes ☐ No
(If no, Submit Copy)

List All E. Logs Run:

☐ Log Formation (Top), Depth and Datum ☑ Sample

Name	Top	Datum
Attached	Attached	Attached

CASING RECORD ☑ New ☐ 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
Surface	12.25	8.625	20	221	common	150	2% gel, 3% cc

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:
☐ Perforate
☐ Protect Casing
☐ Plug Back TD
☐ Plug Off Zone

Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
-			
-			

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record *(Amount and Kind of Material Used)*	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

DISPOSITION OF GAS:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)*

PRODUCTION INTERVAL:

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Hess Oil Company
Well Name	Pamela 1
Doc ID	1059919

Tops

Name	Top	Datum
Anhydrite	1601	+724
Base Anhydrite	1640	+685
Heebner	3722	-1397
Lansing	3760	-1435
Base Kansas City	4048	-1723
Pawnee	4148	-1823
Cherokee Shale	4252	-1927
Cherokee "A" Sand	4254	-1929
Mississippi	4347	-2022
RTD	4358	-2033

HESS OIL COMPANY
P.O. Box 1009
McPherson, KS 67460-1009

Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name:	#1 Pamela		
Location:	Section 30-T17S-R22W		
License Number:	15-135-25246	Region:	Ness County, Kansas
Spud Date:	May 23, 2011	Drilling Completed:	May 31, 2011
Surface Coordinates:	E/2 NW/4		
Bottom Hole Coordinates:			
Ground Elevation (ft):	2320	K.B. Elevation (ft):	2325
Logged Interval (ft):	N.A. To:	Total Depth (ft):	4358
Formation:			
Type of Drilling Fluid:	Andies Mud, INC.		

GEOLOGIST

Name: David A. Barker
Company:
Address: 212 N. Market, Suite 320
Wichita, Kansas 67202
(316) 259-4294, 2 Barker@sbcglobal.net

OPERATOR

Company: Hess Oil Company
Address: Mcpherson, KS 67460

Daily Status

05/23/11Move in Mallard Drilling rig.
Spud at 4:40 PM, cut 221' @ 8:30 PM, CTCH, Ran 5 jts 8 5/8 X 20# X 214', set @ 221' with landing jt, Cement with 150 sacks Common, 2 % gel 3 % cc, Cement did circulate,
Plug down 10:30 PM by Quality ticket # 4919. Dev ½ degree @ 221'. DMC $ 25, CMC $ 25
05/24/11WOC @ 6:30 AM.
05/25/11Drilling ahead @ 1,812', DMC $ 147, CMC $172
05/26/11Drilling ahead @ 2,665', DMC $ 2,976, CMC $3,148
05/27/11Drilling ahead @ 3,147', DMC $ 660, CMC $3,808, Corrected elevation 2319.7 (2316.7 plus 3 ft of fill when location built) so new KB is 2,324.7ft rounded up to 2,325'KB
05/28/11Drilling ahead @ 3,726', DMC $ 1,566, CMC $5,374, Displaced Mud @ 3,537'
05/29/11Drilling ahead @ 4,114', DMC $ 704, CMC $6,078
05/30/11Drilling ahead @ 4,280' (Will Circulate lower sands this afternoon)
DST #1 4,247' to 4,276', Times 30-45-30-45, 1st opening Weak Blow 1/8" to ½ ", 2nd opening
surface blow to ¼", Recovered 80 ft heavy Oil cut watery mud, 30% Oil, 20 % water, 50% Mud.
Chlorides 12,000, Hydrostatic Pressure 2,082 - 1986, IFP 23-41, Bttm Hole Press Initial 633 Final 540,
FFP 47-57,Bttm Hole Temp 119.
5/31/11RTD 4,358', Plugging well
DST #2 4,298-4,358, Times 45-45-15-out, Initial Blow- surface blow to 1/8", NO Final Blow,
Recovered 140 ft muddy water 55% water 45% mud, CHL 27,000, Bttm Hole Temp 115 degrees,
Initial Hydrostatic 2,094 Final Hydrostatic 2,057 Initial Flow 34-78 Final Flow 82-95
Initial Shut in pressure 1,316 No Final Shut In Pressure
Decided not to log as this test covered the lower sands and Miss top.
1st plug @ 1,670' with 50 sx @ 6:40 AM, 2nd plug @ 870' with 80 sx, 3rd plug @ 250' with 50 sx,
4th plug @ 60' with 20 sx, Rat hole with 30 sx, Mouse hole with 20 sx, Plug Down @ 8:45 AM
by Quality ticket number 4843. Plug orders by Ken Jehlik

FormationPamela #1(datum)Everhart B-1Pomije #1Wandelene
Anhydrite1601+724+720+721+743
Base Anhy1640+685+686+684+706
Heebner3722-1397-1396-1398-1387
Toronto
Lansing3760-1435-1438-1440-1430
Stark Shale
Base Ks City4048-1723-1722-1729-1708
Marmaton
Pawnee4144-1819-1818-1830-1806
Fort Scott4232-1907-1910-1917-1899
Cherokee Shale4252-1927-1928-1936-1917

Miss4347-2022-2027-1998
RTD4358-2033-2166

DST results

DST #1 4,247' to 4,276', Times 30-45-30-45, 1st opening Weak Blow 1/8" to ½ ", 2nd opening
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Initial Shut in pressure 1,316 No Final Shut In Pressure

remarks

Due to the poor results of drill stem tests number one (1.) and two (2.) and the lack of other significant oil and gas shows, the decision to plug and abandon the #1 Pamela was made on 5/31/2011, Thank you, David A. Barker

Contractor

Mallard Drilling
2080 E. Kansas Ave.
Mcpherson, Kansas 67430

DST #1 4,247' to 4,276', Times 30-45-30-45, 1st opening Weak Blow 1/8" to ½ ", 2nd opening
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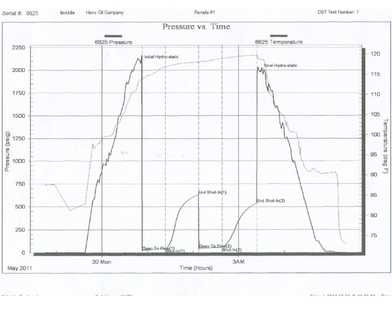
Chlorides 12,000, Hydrostatic Pressure 2,082 - 1986, IFP 23-41, Bttm Hole Press Initial 633 Final 540,
FFP 47-57,Bttm Hole Temp 119.



DST #2 4,298-4,358, Times 45-45-15-out, Initial Blow- surface blow to 1/8", NO Final Blow,
Recovered 140 ft muddy water 55% water 45% mud, CHL 27,000, Bttm Hole Temp 115 degrees,
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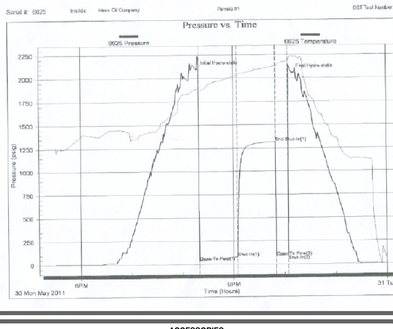
Initial Shut in pressure 1,316 No Final Shut In Pressure



ACCESSORIES

FOSSIL
Algae, Amph, Belm, Bioclst, Brach, Bryozoa, Cephal, Coral, Crin, Echin, Fish, Foram, Fossil, Gastro, Oolite, Ostra, Pelec, Pellet, Pisolite, Plant, Strom, Fuss, Oomold

MINERAL
Anhy, Anggrn, Arg, Bent, Bit, Brecfrag, Calc, Carb, Chtdk, Chtlt, Dol, Feldspar, Ferrpel, Ferr, Glau, Gyp, Hrymin, Kaol, Marl, Minxl, Nodule, Phos, Pyr, Salt, Sandy, Silt, Sil, Sulphur, Tuff, Chlorite, Dol, Sand, Silty

STRINGER
Anhy, Arg, Bent, Coal, Dol, Gyp, Ls, Mrst, Sltstrg, Sststrg, Carbsh, Clystn, Dol, Grysh, Gryslt, Lms, Sandylms, Sh, Sltstn

TEXTURE
Boundst, Chalky, Cryxln, Earthy, Finexln, Grainst, Lithogr, Microxln, Mudst, Packst, Wackest

OTHER SYMBOLS

INTERVALS
Core, Dst, Dst

EVENTS
Rft, Sidewall, Conn

POROSITY TYPE
Earthy, Fenest, Fracture, Inter, Moldic, Organic, Pinpoint, Vuggy

LITHOLOGY
Anhy, Cht, Congl, Shale, Shgy, Ss, Carb sh, Gry sh, Sandylms, Shale, Sltstn, Shlysilts, Sltysh, Lms, Lmst cream, Shale red, blue green sltstn, green shale, Lmst brown, brown dolomite, brown cream, Lmst light cream, lms gray cream, green dolomite, gray dolomite

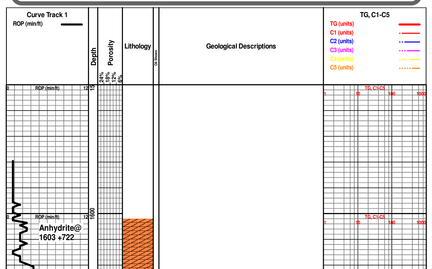
SORTING
Well, Moderate, Poor

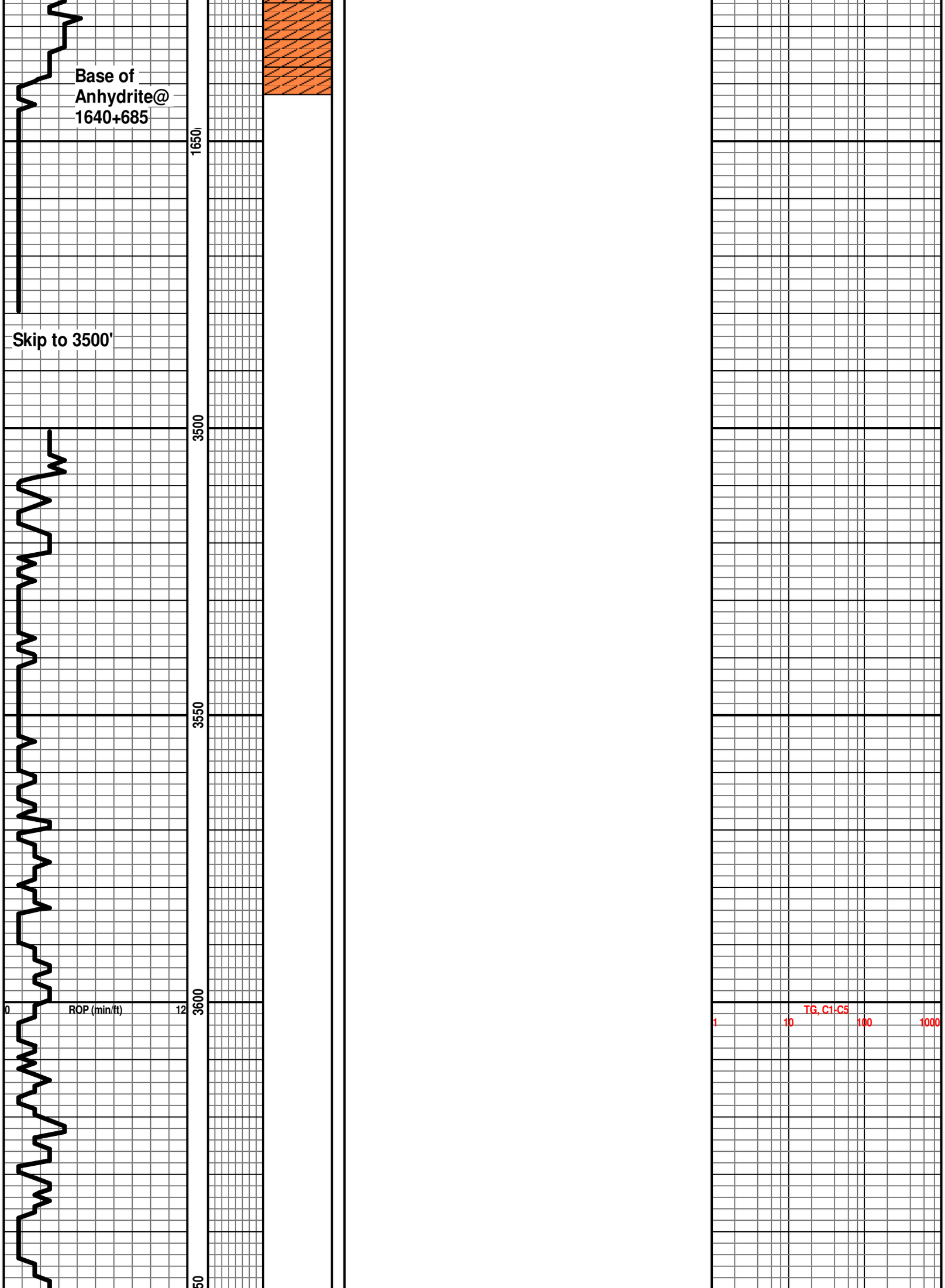
ROUNDING
Rounded, Subrnd, Subang, Angular

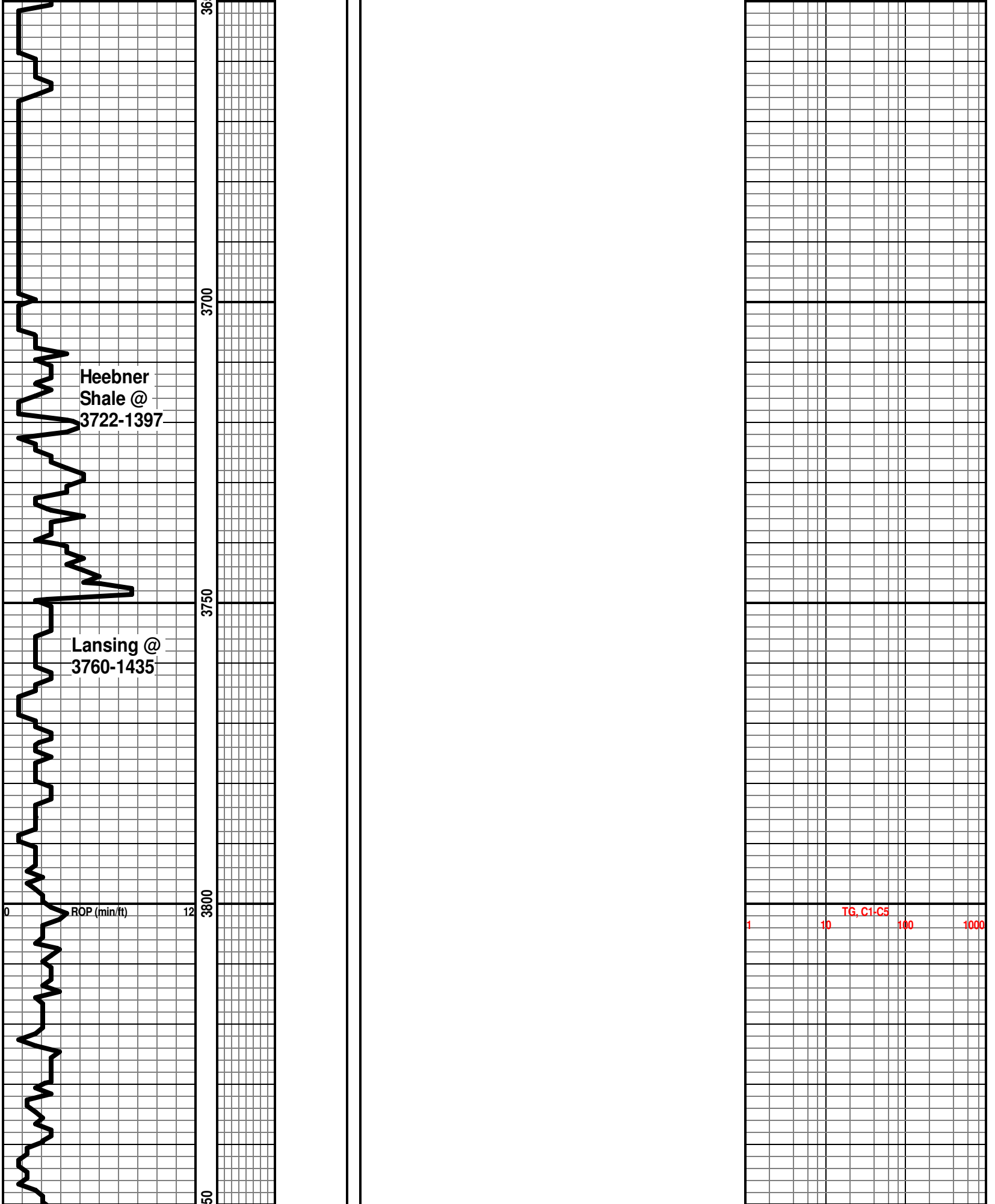
OIL SHOWS
Even, Spotted, Ques, Dead, Gas show

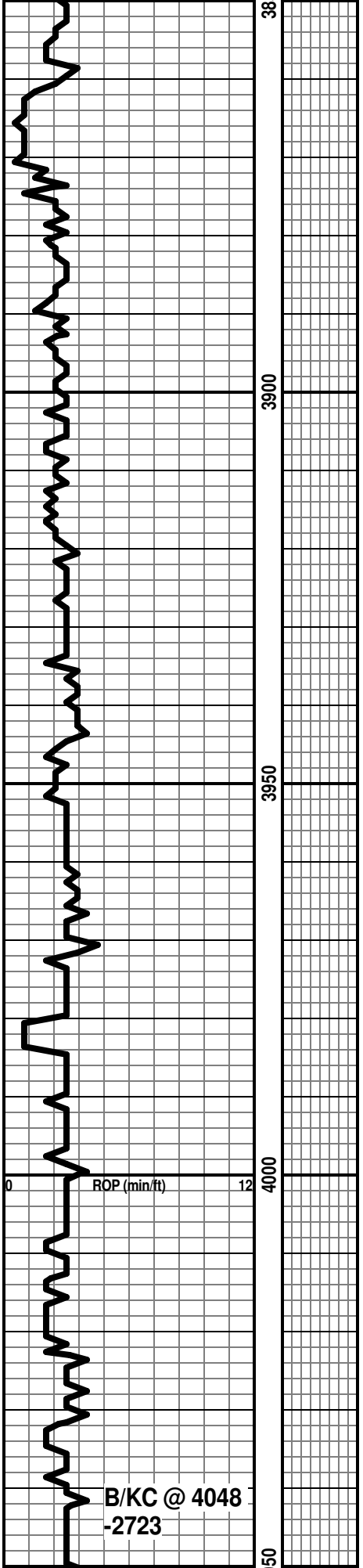
ROCK TYPES

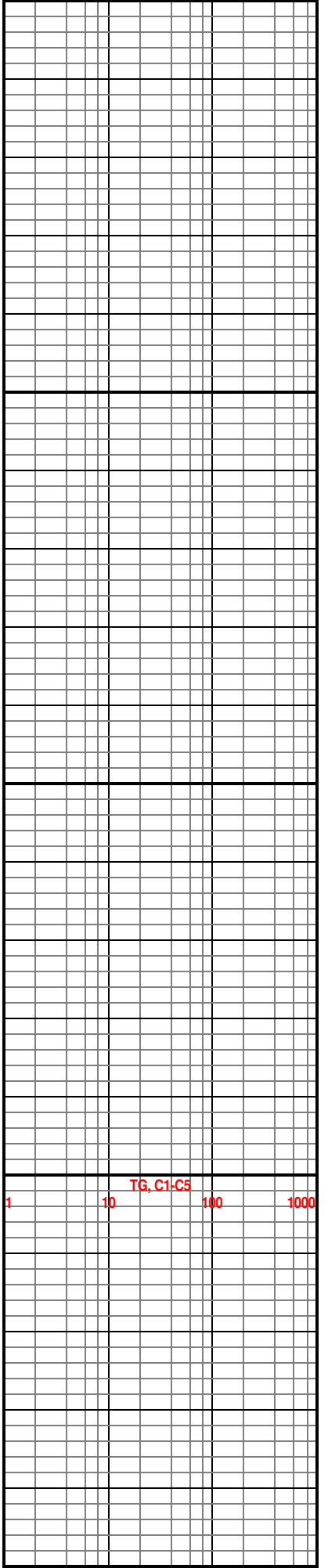
Anhy, Cht, Congl, Shale, Shgy, Ss, Carb sh, Gry sh, Sandylms, Shale, Sltstn, Shlysilts, Sltysh, Lms, Lmst cream, Shale red, blue green, green shale, Lmst brown, brown dolomite, brown cream, Lmst light cr, lms gray crea, green dolomi, gray dolomite

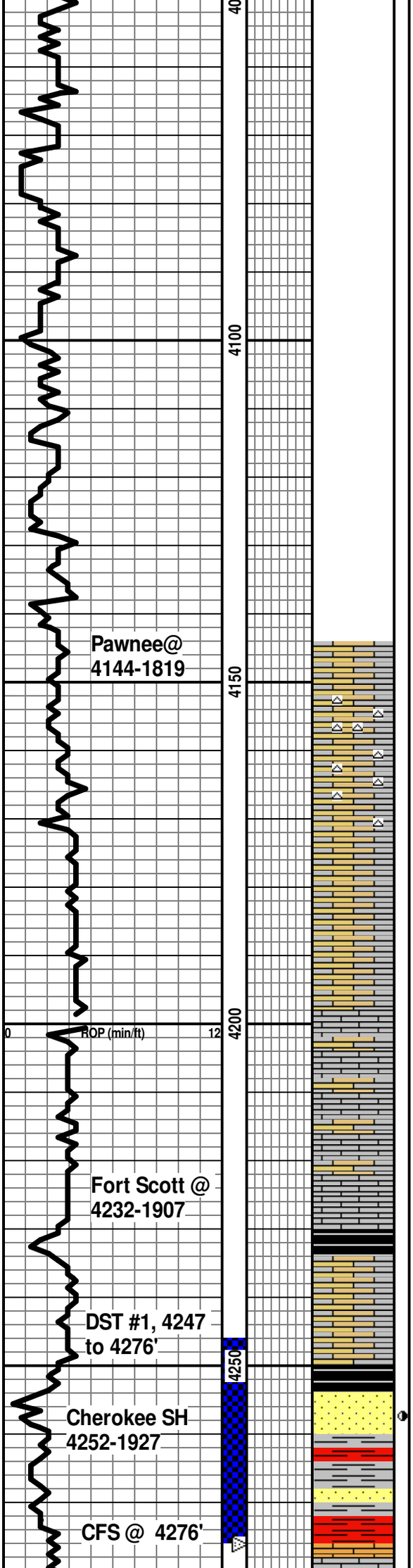



Base of
Anhydrite@
1640+685
Skip to 3500'
1650
3500
3550
3600
0
ROP (min/ft)
12
TG, C1-C5
1
10
100
1000


3700
Heebner
Shale @
3722-1397
3750
Lansing @
3760-1435
3800
0
ROP (min/ft)
12
TG, C1-C5
1
10
100
1000


3850
3900
3950
4000
4050
0
ROP (min/ft)
12
B/KC @ 4048
-2723


TG, C1-C5
1
10
100
1000



LS: cream, microxyln, poor interxyln

LS: white, chaulky, Shale: varied colored LS: gray, microxyln, dense,

LS: gray to tan, microxyln, very dense, no visable porosity, friable in part, Shale: gray to red

LS: cream to buff and light gray, microxyln, very dense, no visable porosity, dense mud stone, Chert: orange, modeled, sharp, fresh

LS: gray, microxyln, very dense, LS: cream, finexyln, friable to poor interxyln porosity.

LS: light gray to gray to light brown, some tan, microxyln, very dense. no visable porosity.

LS: gray, microxyln, very dense, no visable porosity, gray mudstone.

Shale: black, carboniferous, massive, LS: gray, microxyln, dense, no visable porosity.

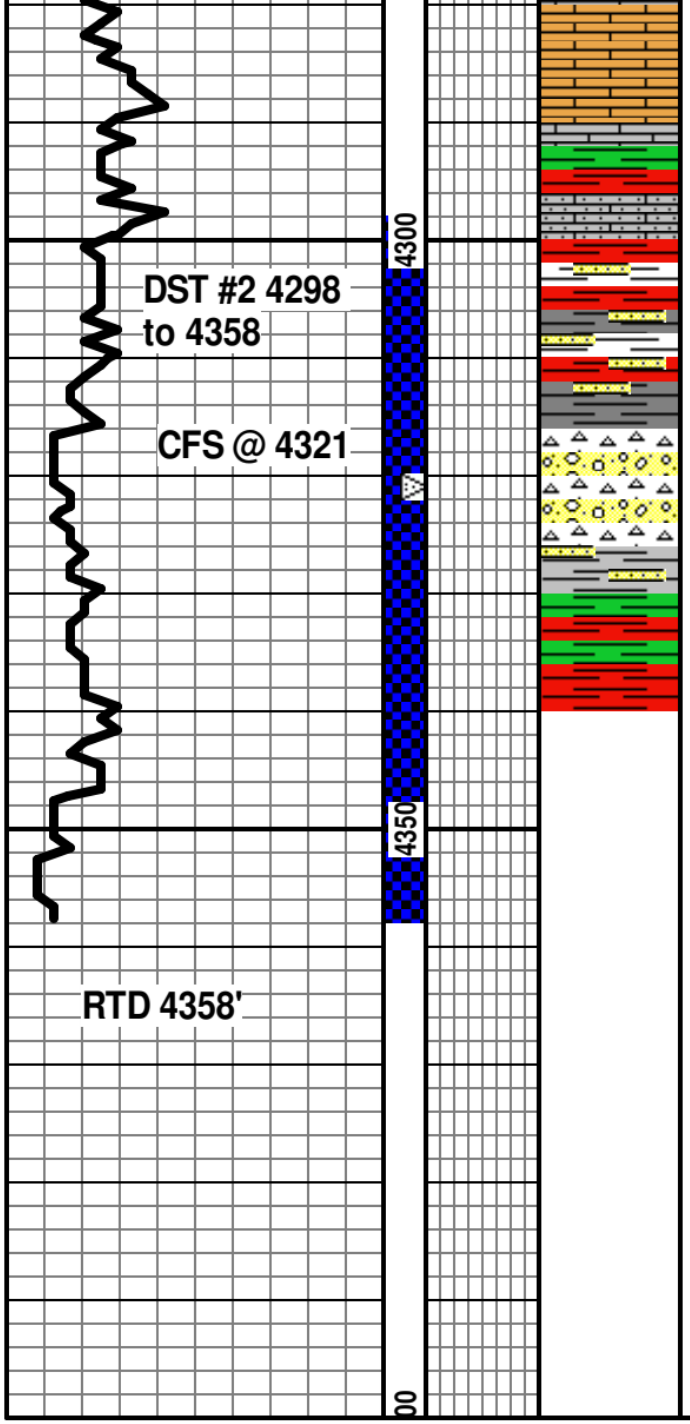
LS: cream to light gray, microxyln, dense, no visable porosity

no odor from sample, SD.STN. brown, gray/red, very fine grained, calcareous, dolomitic in part, no flourescence, random gas bub. small amount of SD. STN. fine graind, clear grained, lightly cemented, one piece broke fair show of free very dark brown oil, no flourescence, no odor when broken. Shale: red sticky,

TG, C1-C5

1 10 100 1000

DST #1 4,247' to 4,276', Times 30-45-30-45, 1st opening Weak Blow 1/8" to ½ ", 2nd opening surface blow to ¼", Recovered 80 ft heavy Oil cut watery mud, 30% Oil, 20 % water, 50% Mud. Chlorides 12,000, Hydrostatic Pressure 2,082 - 1986, IFP 23-41, Bttm Hole Press Initial 633 Final 540, FFP 47-57,Bttm Hole Temp 119



LS: cream to bone white, finexyln, friable, Shale: red to gray

Shale: red, SD. STN: fine grain, calcareous, friable, no show, Shale: green,

LS: waxey light emerald green, microxyln, very dense, Shale: pinkish gray, with very fine grain round quartx grains, no show

Chert: varied colored, semi clear to clear, sharp, fresh, sct yellow pcs, no show no odor from sample, Shale red to gray/green,

varied colored shale, modeled red and green, Shale: light gray, with fine grain rounded quartz grains,

DST #2 4,298-4,358, Times 45-45-15-out, Initial Blow- surface blow to 1/8", NO Final Blow, Recovered 140 ft muddy water 55% water 45% mud, CHL 27,000, Bttm Hole Temp 115 degrees, Initial Hydrostatic 2,094 Final Hydrostatic 2,057 Initial Flow 34-78 Final Flow 82-95 Initial Shut in pressure 1,316 No Final Shut In Pressure

DAVID A. BARKER

212 N. Market St., Ste. # 320
Wichita, Kansas 67212
(316) 259-4294

GEOLOGICAL REPORT

PAMELA #1

660' FNL, 1650' FWL

E/2 NW 30 – 17S – 22W

NESS COUNTY, KANSAS

Commenced: 05-23-2011	Elevations: 2325' KB
Completed: 05-31-2011	Surface Pipe: 8-5/8" @ 221' KB
Contractor: Mallard J.V.	Production Pipe: none

One foot drilling time was kept from 1580' to 1680' KB and from 3500' to Rotary Total Depth. Wet and dry drilling samples were examined every ten foot from 3500' to RTD.

The following are sample tops that were examined microscopically from 3500' to Rotary Total Depth, descriptions of potentially productive zones, and results from all drill stem tests.

ANHYDRITE	1601	(+724)
BASE ANHYDRITE	1640	(+685)
HEEBNER	3722	(-1397)
LANSING	3760	(-1435)
BASE KANSAS CITY	4048	(-1723)

PAWNEE	4148	(-1823)
CHEROKEE SHALE	4252	(-1927)
CHEROKEE 'A' SAND	4254	(-1929)

Sandstone, very fine grained, sub-angular, clear grained. Small grains, broke dark brown lazy free oil, poor fluorescence

DRILL STEM TEST #1, CHEROKEE 'A' SAND 4247-4276' KB 29' Anchor

Blow: Weak Blow to " *2nd:* Surface to " Blow

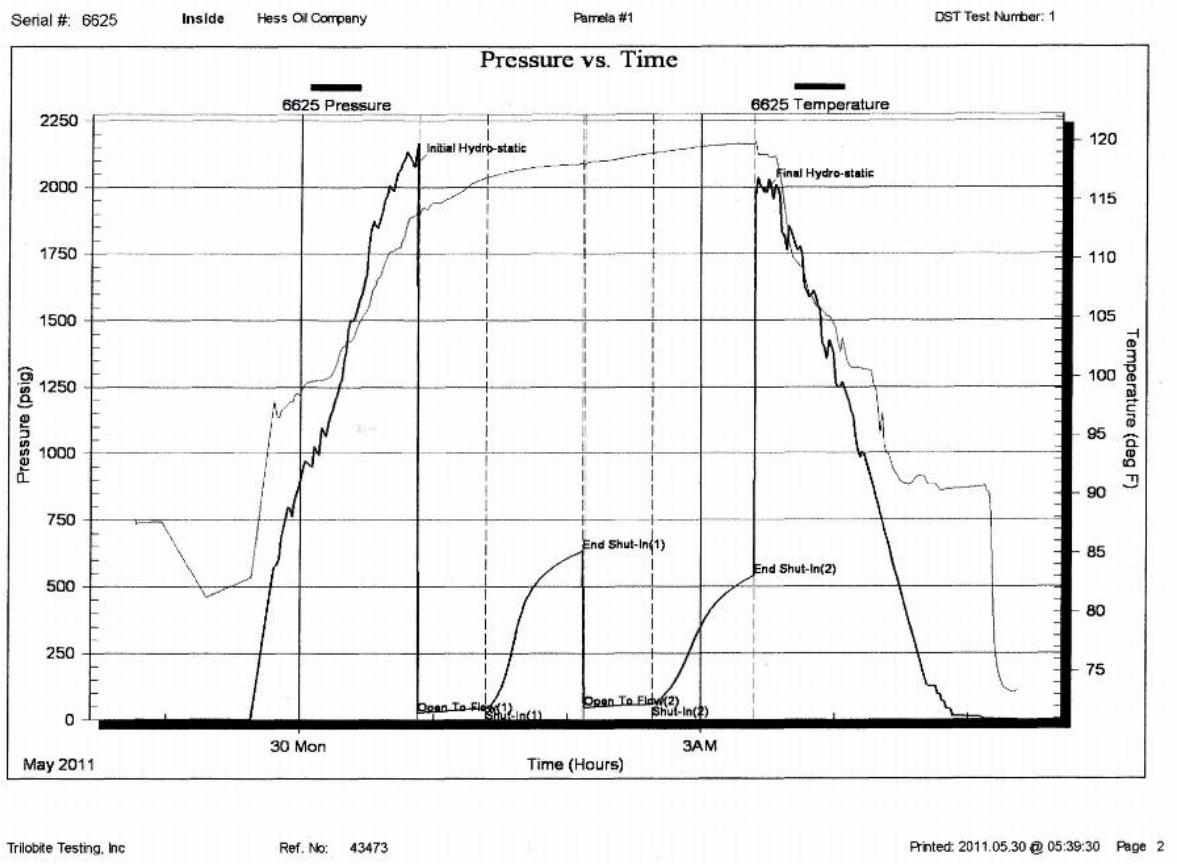
Times: Open 30, Closed 45, Open 30, Closed 45

Recovered: 80' Heavy Oil Cut Watery Mud; 30% Oil, 20% Water, 50% Mud

BHT 119˚F *API RW* .48 @ 74˚F *Chlorides* 12000 ppm

Pressures: Initial Hydrostatic: 2082# *Initial Flow:* 23-41# *Initial Shut-In:* 633#

Final Hydrostatic: 1986# *Final Flow:* 47-57# *Final Shut-In:* 540#



MISSISSIPPI 4347 (-2022)

Fresh to white, semi-clear chert, sharp, slightly light brown, tripolitic, slightly dolomitic. One piece of dark brown dolomite, finely crystalline, dense, dolomite. Strong show of free oil when crushed, no odor.

DRILL STEM TEST #2 4298-4358' KB 60' Anchor

Blow: Surface to ⅛" Blow *2nd:* Pulled Tool

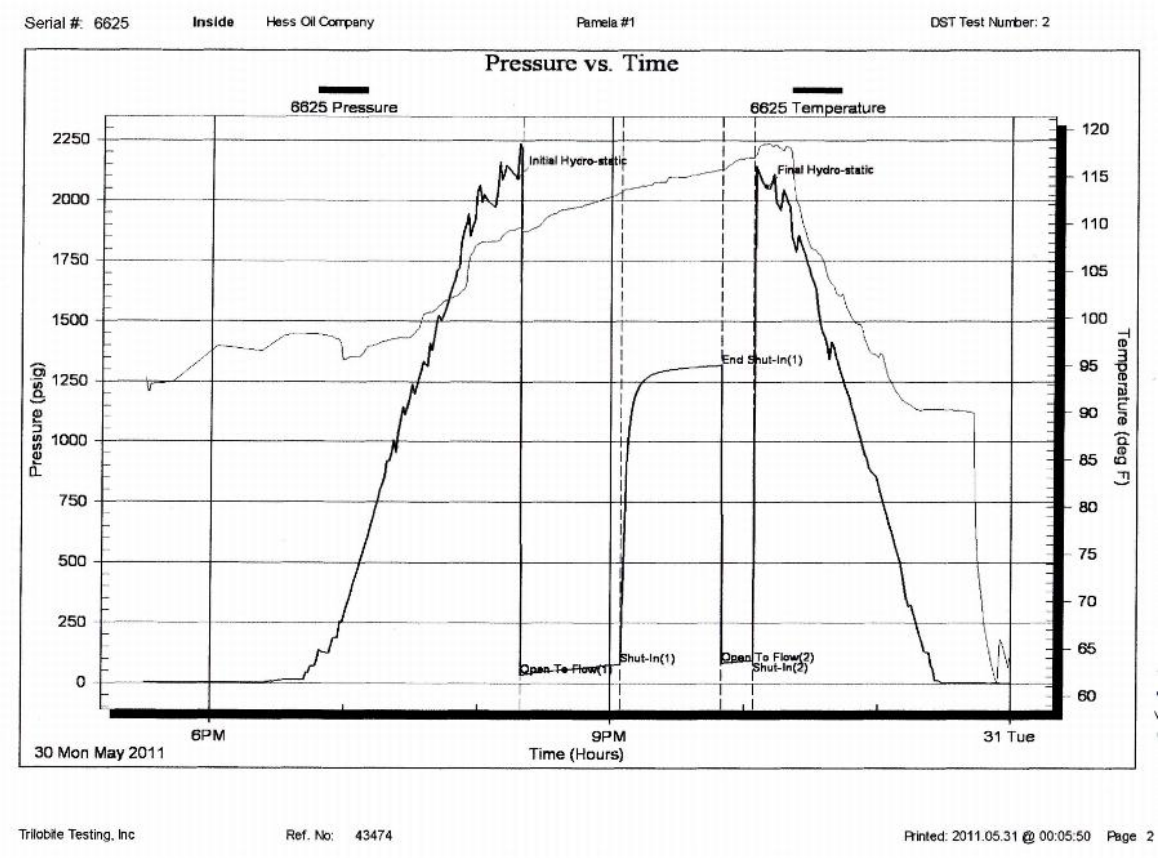
Times: Open 45, Closed 45, Open 15, Closed Pulled Tool

Recovered: 140' Muddy Water; 55% Water, 45% Mud

BHT 115˚F *API RW* .25 @ 70˚F *Chlorides* 27000 ppm

Pressures: Initial Hydrostatic: 2094# *Initial Flow:* 34-78# *Initial Shut-In:* 1316#

Final Hydrostatic: 1057# *Final Flow:* 82-95# *Final Shut-In:* Pulled Tool



ROTARY TOTAL DEPTH	4358	(-2033)

Testing tools were pulled during DST#2 because of the lack of blow during the second open period. Therefore, no bottom-hole pressure was recorded.

Due to poor the subsurface structural position, poor drill stem tests, and poor sample shows, the Pamela #1was plugged and abandoned without logs or further testing on May 31st, 2011.

Respectively Submitted,

David A. Barker

DRILL STEM TEST REPORT

Hess Oil Company

P O Box 1009
McPherson Ks 67460-1009

ATTN: Bryan Hess

30-17s-22w Ness

Pamela #1

Job Ticket: 43473 **DST#: 1**

Test Start: 2011.05.29 @ 22:45:51

GENERAL INFORMATION:

Formation: **Cher Sd "A"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:52:46
Time Test Ended: 05:22:45

Test Type: Conventional Bottom Hole
Tester: Ray Schwager
Unit No: 42

Interval: 4247.00 ft (KB) To 4276.00 ft (KB) (TVD)
Total Depth: 4276.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Fair

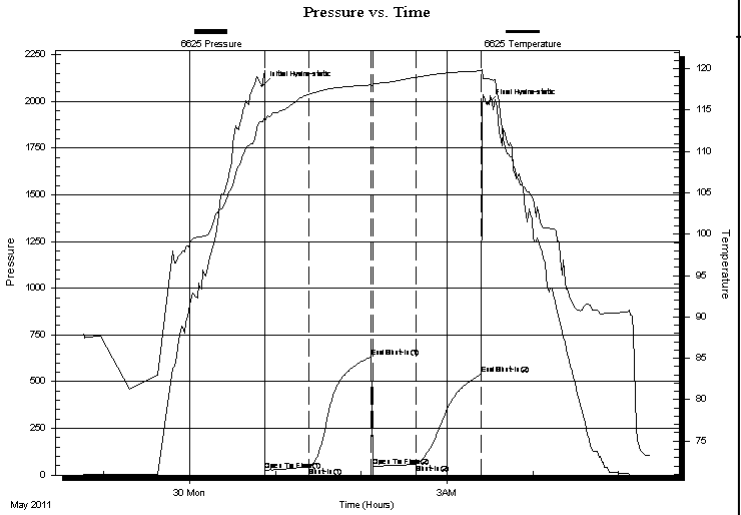
Reference Elevations: 2325.00 ft (KB)
2320.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6625 **Inside**

Press@RunDepth: 57.40 psig @ 4248.00 ft (KB)
Start Date: 2011.05.29 End Date: 2011.05.30
Start Time: 22:45:51 End Time: 05:22:45

Capacity: 8000.00 psig
Last Calib.: 2011.05.30
Time On Btm: 2011.05.30 @ 00:50:46
Time Off Btm: 2011.05.30 @ 03:28:15

TEST COMMENT: 30-IFP-w k bl 1/8"to 1/2"bl
45-ISIP-no bl
30-FFP-surface to 1/4"bl
45-FSIP-no bl



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2082.05	113.61	Initial Hydro-static
2	23.17	113.62	Open To Flow (1)
33	41.98	116.88	Shut-In(1)
76	633.75	118.04	End Shut-In(1)
77	47.26	117.97	Open To Flow (2)
108	57.40	118.96	Shut-In(2)
153	540.89	119.75	End Shut-In(2)
158	1986.34	118.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	HOCWM 30%O20%W50%M	0.39

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Hess Oil Company

P O Box 1009
McPherson Ks 67460-1009

ATTN: Bryan Hess

30-17s-22w Ness

Pamela #1

Job Ticket: 43473 **DST#: 1**

Test Start: 2011.05.29 @ 22:45:51

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:	12000 ppm
Viscosity:	52.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.93 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4500.00 ppm				
Filter Cake:	1.00 inches				

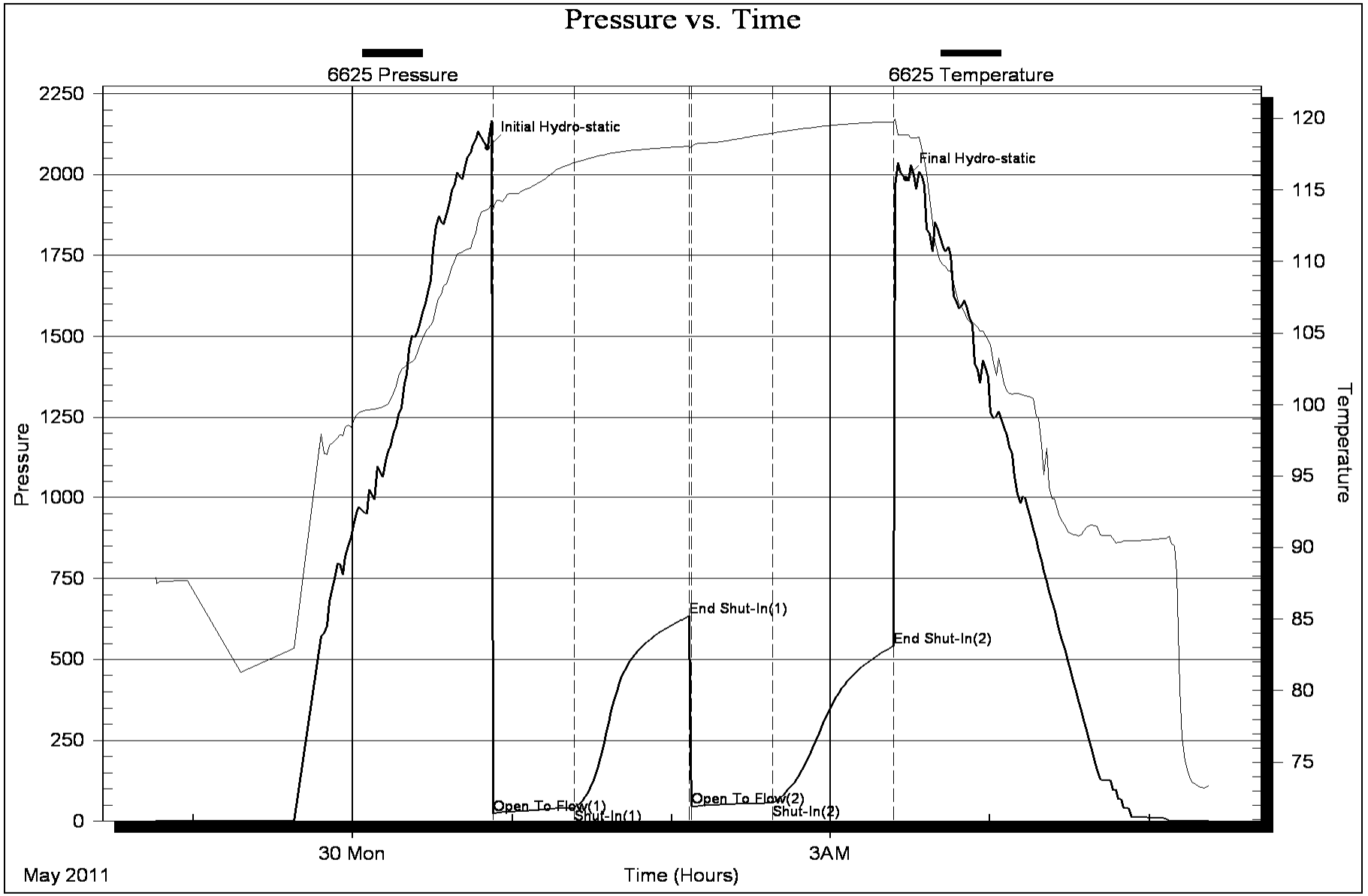
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
80.00	HOCWM 30%O20%W50%M	0.393

Total Length: 80.00 ft Total Volume: 0.393 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: RW .48@74F


Pressure vs. Time
6625 Pressure
6625 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
Pressure
Temperature
Time (Hours)
30 Mon
3AM
May 2011
2250
2000
1750
1500
1250
1000
750
500
250
0
120
115
110
105
100
95
90
85
80
75

DRILL STEM TEST REPORT

Hess Oil Company

P O Box 1009
McPherson Ks 67460-1009

ATTN: Bryan Hess

30-17s-22w Ness

Pamela #1

Job Ticket: 43474 **DST#: 2**

Test Start: 2011.05.30 @ 17:30:35

GENERAL INFORMATION:

Formation: **Miss**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:19:30
Time Test Ended: 23:59:59

Test Type: Conventional Bottom Hole
Tester: Ray Schwager
Unit No: 42

Interval: 4298.00 ft (KB) To 4358.00 ft (KB) (TVD)
Total Depth: 4358.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Fair

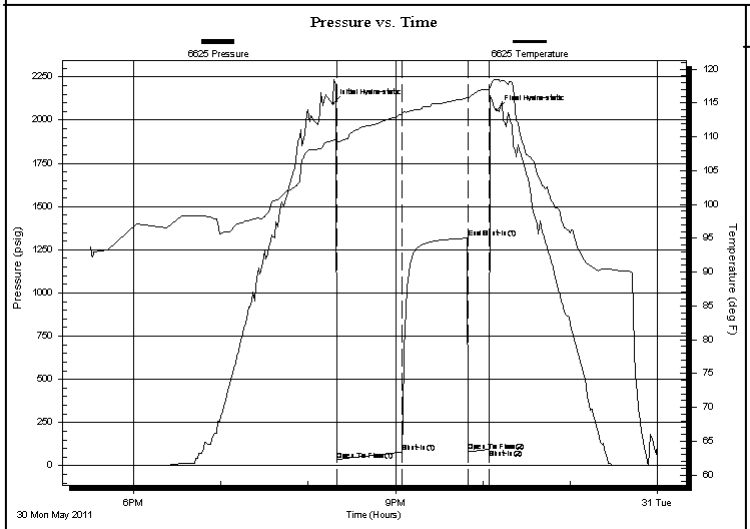
Reference Elevations: 2325.00 ft (KB)
2320.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6625 **Inside**

Press@RunDepth: 78.65 psig @ 4300.00 ft (KB)
Start Date: 2011.05.30 End Date: 2011.05.30
Start Time: 17:30:35 End Time: 23:59:59

Capacity: 8000.00 psig
Last Calib.: 2011.05.31
Time On Btm: 2011.05.30 @ 20:17:00
Time Off Btm: 2011.05.30 @ 22:09:29

TEST COMMENT: 45-IFP-surface to 1/8"bl
45-ISIP-no bl
15-FFP-no bl
pull tool



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2094.84	109.46	Initial Hydro-static
3	34.38	109.15	Open To Flow (1)
48	78.65	113.37	Shut-In(1)
93	1316.58	115.78	End Shut-In(1)
93	82.72	115.68	Open To Flow (2)
107	95.00	117.00	Shut-In(2)
113	2057.75	118.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
140.00	MW 45%M55%W	0.69

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Hess Oil Company

P O Box 1009
McPherson Ks 67460-1009

ATTN: Bryan Hess

30-17s-22w Ness

Pamela #1

Job Ticket: 43474 **DST#: 2**

Test Start: 2011.05.30 @ 17:30:35

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:	27000 ppm
Viscosity:	50.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.74 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4500.00 ppm				
Filter Cake:	1.00 inches				

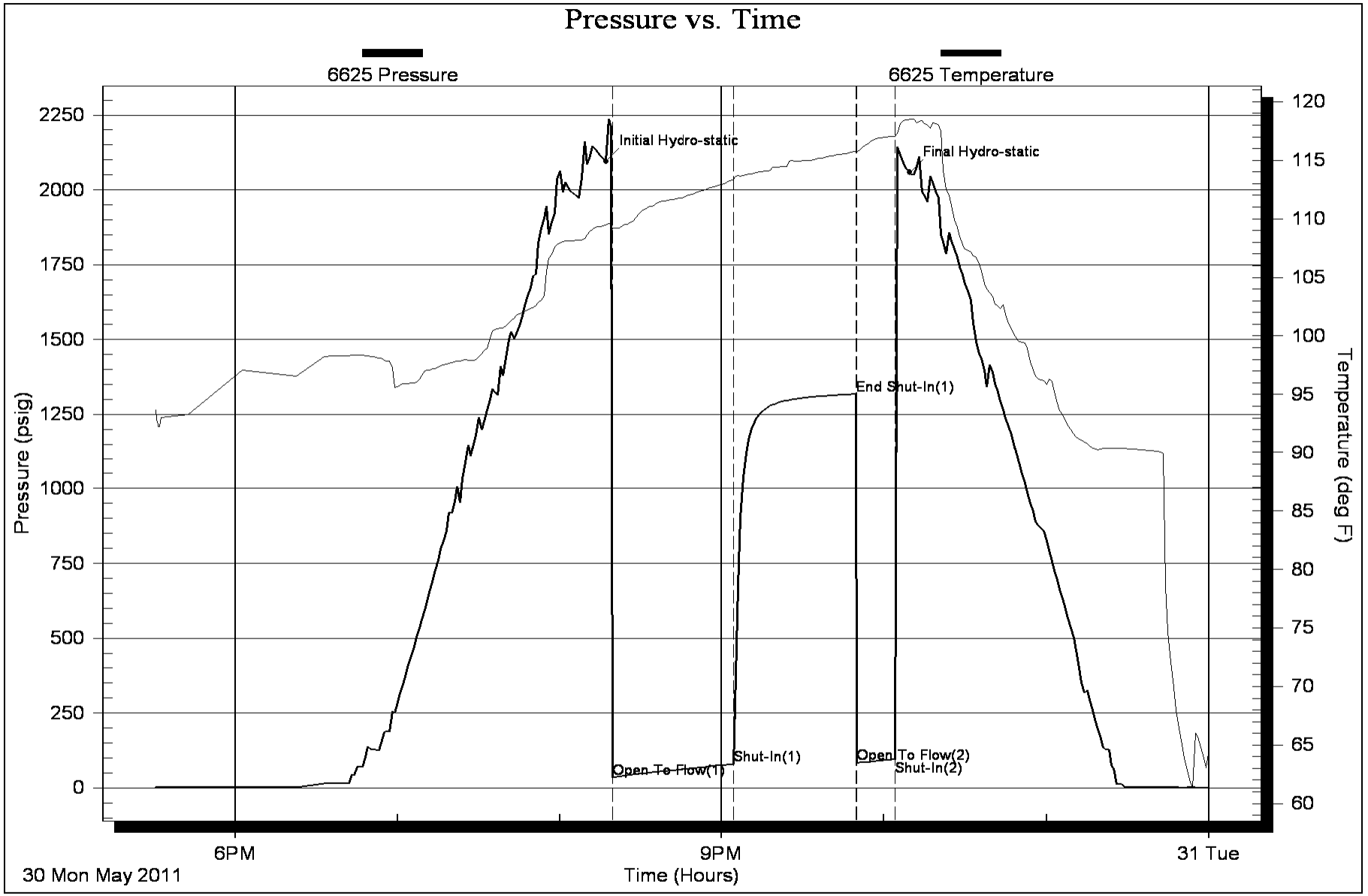
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
140.00	MW 45%M55%W	0.688

Total Length: 140.00 ft Total Volume: 0.688 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: RW .25@70F


Pressure vs. Time
6625 Pressure
6625 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
Pressure (psig)
Temperature (deg F)
2250
2000
1750
1500
1250
1000
750
500
250
0
120
115
110
105
100
95
90
85
80
75
70
65
60
6PM
9PM
31 Tue
30 Mon May 2011
Time (Hours)