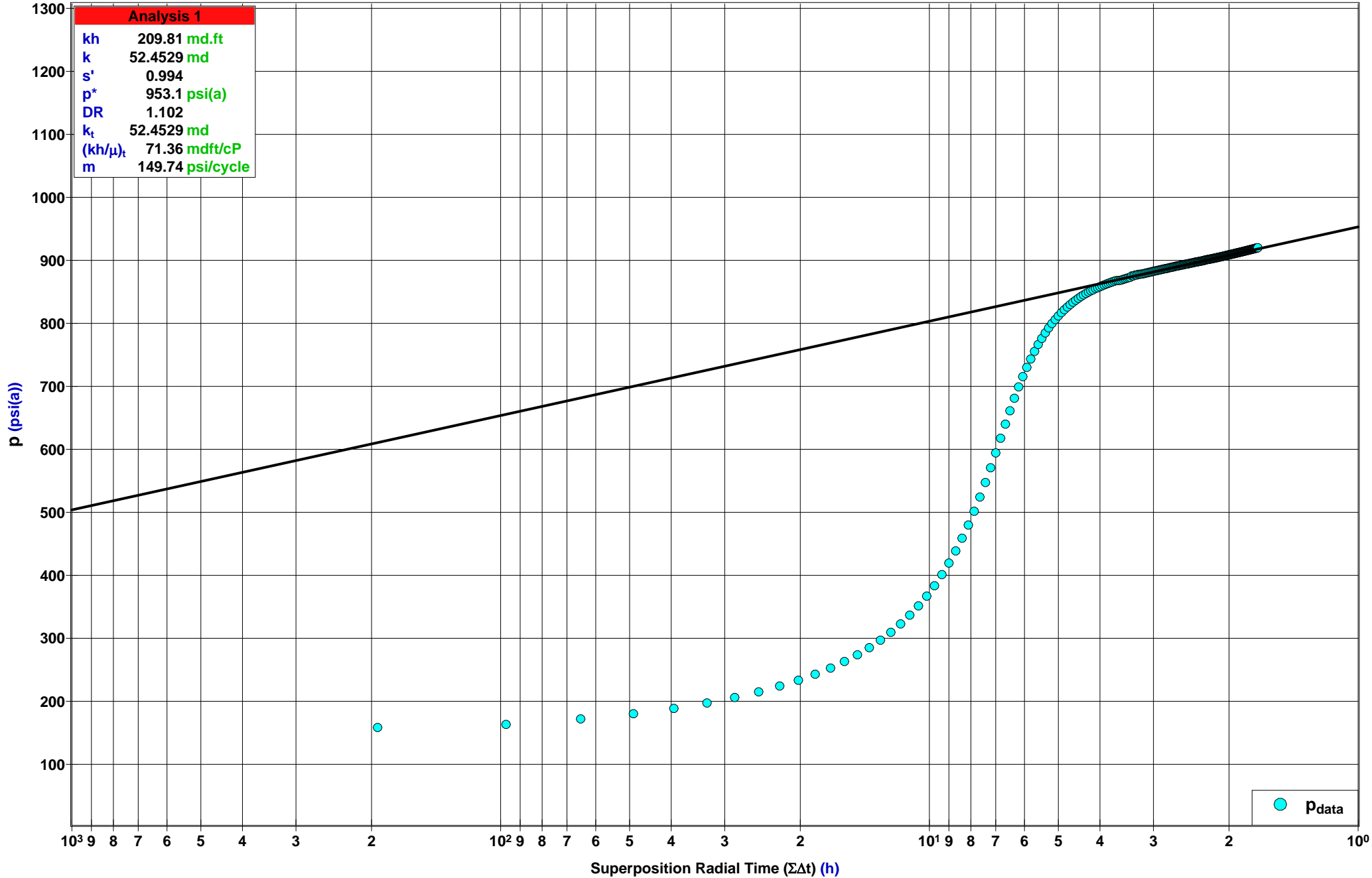


VESS OIL CORPORATION  
HAGAN B1  
DST #1 LANS 'A-F' 3,071' - 3,167'

### DST #1 INITIAL SHUT-IN HORNER



# Oil Well Test - Buildup

## Radial Flow Analysis

VESS OIL CORPORATION  
HAGAN B1

DST #1 LANS 'A-F' 3,071' - 3,167'

### Analysis Results

Total Sandface Rate (qtBt)	65.718 bbl/d	Apparent Skin (s')	0.994
Semilog Slope (m)	149.74	Skin - Damage	0.994
Gas Permeability (kg)	md	Skin - Inclination	
Oil Permeability (ko)	52.453 md	Skin - Partial Penetration	
Water Permeability (kw)	md	Pressure Drop Due to Skin (Dps)	129.38 psi
Flow Capacity (kh)	209.812 md.ft	Damage Ratio (DR)	1.102
Total Mobility (k/mt)	17.84 md/cp	Flow Efficiency (FE)	0.907
Total Transmissivity(kh/mt)	71.36 md.ft/cp		

### Reservoir Parameters

Net Pay (h)	4.000 ft
Total Porosity (ft)	20.00 %
Water Saturation (Sw)	20.00 %
Oil Saturation (So)	80.00 %
Gas Saturation (Sg)	0.00 %
Wellbore Radius (rw)	0.30 ft
Formation Temperature (T)	102.0 °F
Formation Compressibility (cf)	3.647e-6 psi-1
Total Compressibility (ct)	1.119e-5 psi-1

### Pressures

Initial Pressure (pi)	1551.04 psi
Extrapolated Pressure (p*)	953.14 psi
Final Flowing Pressure (pwfo)	158.28 psi

### Production and Times

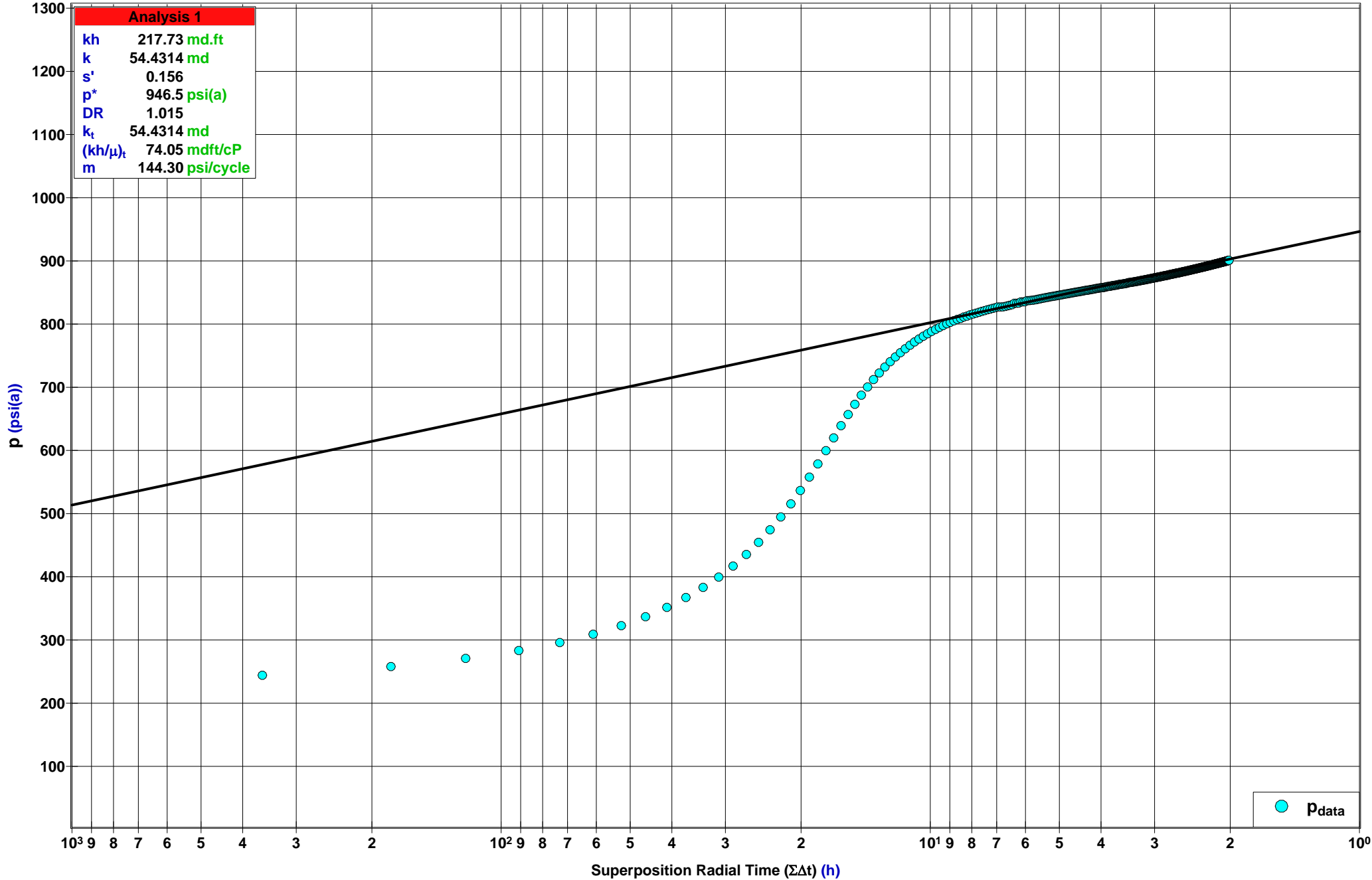
Corrected Flow Time (tc)	0.5333 hr
Cumulative Oil Production	1.273 bbl
Final Oil Rate	57.000 bbl/d

### Fluid Properties

Oil Compressibility (co)	8.66335e-6 psi-1
Oil Formation Volume Factor (Bo)	1.153
Oil Viscosity (mo)	2.940 cp
Solution Gas Ratio (Rs)	277 scf/bbl
Oil Gravity (yo)	32.00 ° API
Gas Gravity (G)	0.650
PVT Reference Pressure (pPVT)	1551.04 psi

VESS OIL CORPORATION  
HAGAN B1  
DST #1 LANS 'A-F' 3,071' - 3,167'

DST #1 FINAL SHUT-IN  
HORNER



# Oil Well Test - Buildup

## Radial Flow Analysis

VESS OIL CORPORATION  
HAGAN B1

DST #1 LANS 'A-F' 3,071' - 3,167'

### Analysis Results

Total Sandface Rate (qtBt)	65.718 bbl/d	Apparent Skin (s')	0.156
Semilog Slope (m)	144.30	Skin - Damage	0.156
Gas Permeability (kg)	md	Skin - Inclination	
Oil Permeability (ko)	54.431 md	Skin - Partial Penetration	
Water Permeability (kw)	md	Pressure Drop Due to Skin (Dps)	19.58 psi
Flow Capacity (kh)	217.726 md.ft	Damage Ratio (DR)	1.015
Total Mobility (k/mt)	18.51 md/cp	Flow Efficiency (FE)	0.985
Total Transmissivity(kh/mt)	74.05 md.ft/cp		

### Reservoir Parameters

Net Pay (h)	4.000 ft
Total Porosity (ft)	20.00 %
Water Saturation (Sw)	20.00 %
Oil Saturation (So)	80.00 %
Gas Saturation (Sg)	0.00 %
Wellbore Radius (rw)	0.30 ft
Formation Temperature (T)	102.0 °F
Formation Compressibility (cf)	3.647e-6 psi-1
Total Compressibility (ct)	1.119e-5 psi-1

### Pressures

Initial Pressure (pi)	1551.04 psi
Extrapolated Pressure (p*)	946.51 psi
Final Flowing Pressure (pwfo)	244.06 psi

### Production and Times

Corrected Flow Time (tc)	1.2667 hr
Cumulative Oil Production	3.015 bbl
Final Oil Rate	57.000 bbl/d

### Fluid Properties

Oil Compressibility (co)	8.66335e-6 psi-1
Oil Formation Volume Factor (Bo)	1.153
Oil Viscosity (mo)	2.940 cp
Solution Gas Ratio (Rs)	277 scf/bbl
Oil Gravity (yo)	32.00 ° API
Gas Gravity (G)	0.650
PVT Reference Pressure (pPVT)	1551.04 psi

VESS PIL CORPORATION  
HAGAN #B1  
DST #1 LANS 'A-F' 3,071' - 3,167'

<u>DESCRIPTION</u>	<u>SECOND READING</u>	<u>FIRST READING</u>	<u>PRESSURE CHANGE</u>	<u>PIPE SIZE - ID</u>	<u>FLUID GRADIENT</u>	<u>TIME CHANGE</u>	<u>TOTAL TIME</u>	<u>DAILY PRODUCTION</u>	<u>AVERAGE % OIL</u>	<u>ESTIMATED PRODUCTION</u>
FINAL FLOW	237	182	55	0.0142	0.3620	30	1440	104	0.55	57

VESS OIL CORP  
Start Test Date: 2011/10/07  
Final Test Date: 2011/10/08

Formation: LANS A-F  
Job Number: D1032

