

Schlumberger

TESTING SERVICES REPORT

report Number

11769467

Test Date

02-May-07

Report Date

03-May-07

Patterson Petroleum

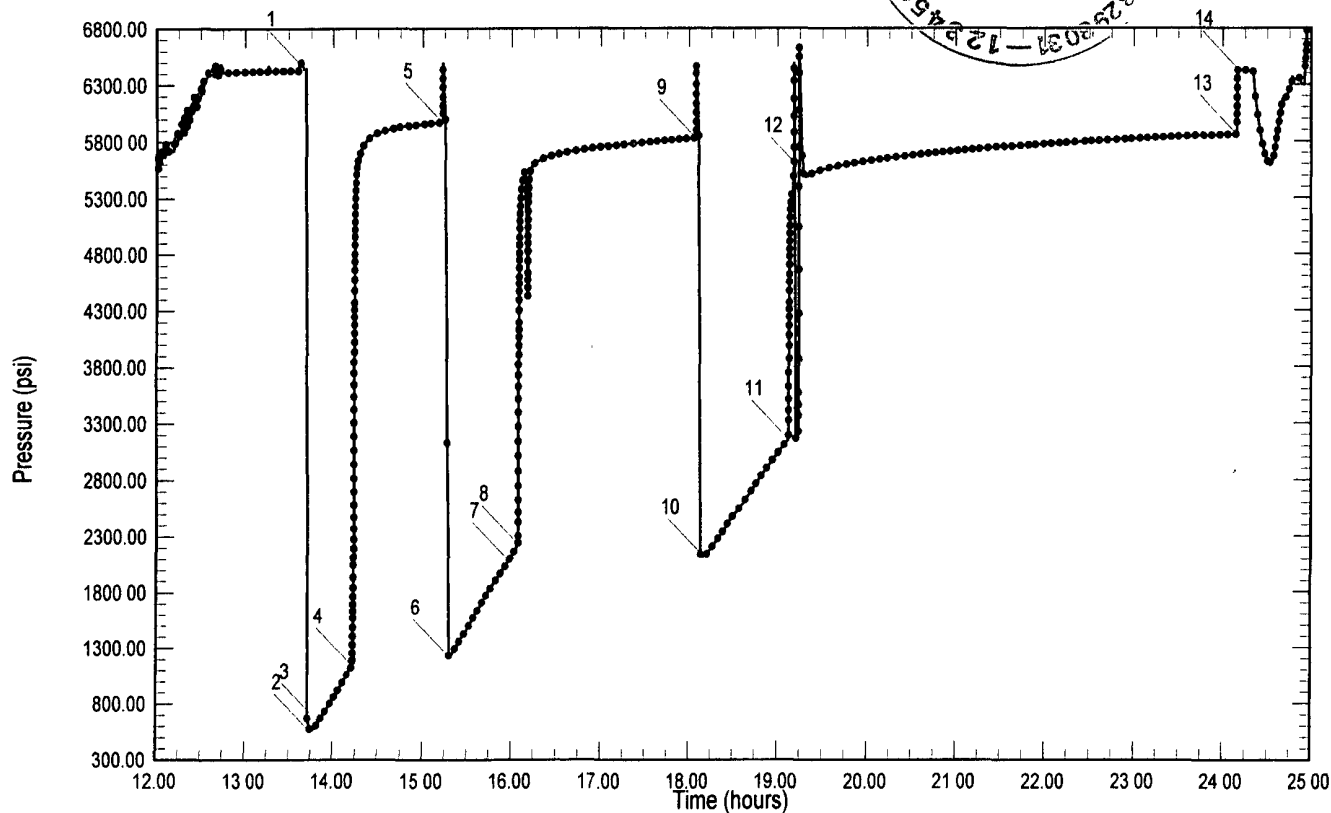
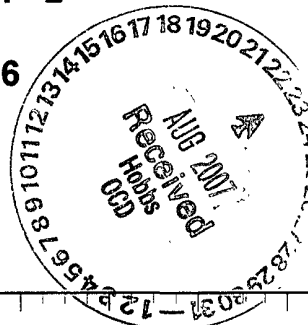
OH Straddle DST

Cooper 24 Fed Com - 2

W/C

Rig : Patterson 46

Lea - NM



DST Report

Job Summary, Comments Page, Sequence of Events, Label Point Information, Plots, Summary Data Printout, Distribution

Schlumberger Testing Services

432-689-2001

Schlumberger**Job Summary**
Patterson Petroleum
OH Straddle DSTCooper 24 Fed Com 2
W/CService Order Number : 11769467
Test Date : 02-May-07

Company Rep Mr. Ashworth

SWS Rep Roy Cherry Jr

Test Information

Test Number Three

Formation L. Strawn
Interval (MD ft) 11550-11612**Well Location**Well Cooper 24 Fed Com 2
Field W/CRig Patterson 46
State Lea - NM**Wellbore Configuration**Total Depth (MD/TVD ft) 11667/11667
Casing / Liner ID (in) 8.15
Top of Liner (md- ft) SurfaceWellbore Radius (ft) 4.375
Mud Weight (lb/gal) 10.3
Mud Type SW Gel**Test String Configuration**Pipe Length (ft) / ID (in) 10682 / 3.826
Pipe Length (ft) / ID (in)
Drill Collar Length (ft) / ID (in) 828 / 2.26
Packer Depths (ft MD) 11550 / 11612Gauge Depth (MD) 11528
Gauge Depth (TVD) 1528
Test Valve Type MFE
Test Valve Depth (ft) (MD) 11512**Key Information**Initial Hydrostatic Pressure 6439
Init. Hyd Grad & Density 4.214 psi/ft / 81.04 lb/gal
Final Hydrostatic Pressure 6435
Final Hyd Grad & Density 4.211 psi/ft / 80.99 lb/gal
Bottom Hole Temp 163Final Shut In Pressure 5860
Final Shut In Grad & Density 3.835 psi/ft / 73.75 lb/gal
Final Flowing Pressure 3157
Final Flow Rate (bopd) 1272
Productivity Index (bopd / psi) 0.471**Job Description / Services Requested**

This 8-3/4" open hole straddle dst of the lower Strawn was mechanically successful. One-half hour initial flow opened at 2.0 oz increasing to 58 psi. Had gas to surface in 18 min. Initial shutin of one hour, blowing down to 10 psig. Second flow reached 65 psig with oil to surface in 40 min. Shutin at surface at 41 min, then shutin tool at 47 min w/ 100 psig. Second shutin for 1 hour, blowing down to transport tank. Final flow for 1 hr began at 11 psi increasing to 275 psig flowing oil and gas. Flowed and reversed about 106 bbls of oil (41.1 API) w/ gas and 6.8 bbls of water cushion (not visible). Sampler contained gas, 2400 cc's of oil and 50 cc's of mud. Sampler pressure is 1300 psig. Left fluid samples at well. Final BH shutin pressure is 5860 psia at 163°F. Thank you for choosing Schlumberger.

Copy to BJ

Schlumberger Crew

Roy Cherry Jr. 432-557-5258

Cooper 24 Fed Com 2
W/C

11769467
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Sample Chamber Capacity (cc) 2500

Measured Fluid Recovery

			<u>Temp (F)</u>	<u>Press (psia)</u>
Oil (cc)	2400	API Gravity 41.1	75	1300.0
Water (cc)		Res. (ohms) ...	75	1300.0
Mud (cc)	50	Res. (ohms) ...	75	1300.0
Total Liquid Recovery (cc)	2450			
Gas (ft3)	0.17		75	1300.0

Corrected Sample Chamber Gas Recovery

Bottomhole Temperature (F)	163	Assumed SC Gas Gravity	0.650
Final Flowing Pressure (psia)	3157	Est Z Value @ Pwf and Tres	0.873
Corrected Gas Recovery (scf)	0.362		

Sample Chamber Fluid Ratios

Sample Chamber Water Cut	n/r
GOR Using Corrected Gas Recovery	24
GLR Using Corrected Gas Recovery	n/r

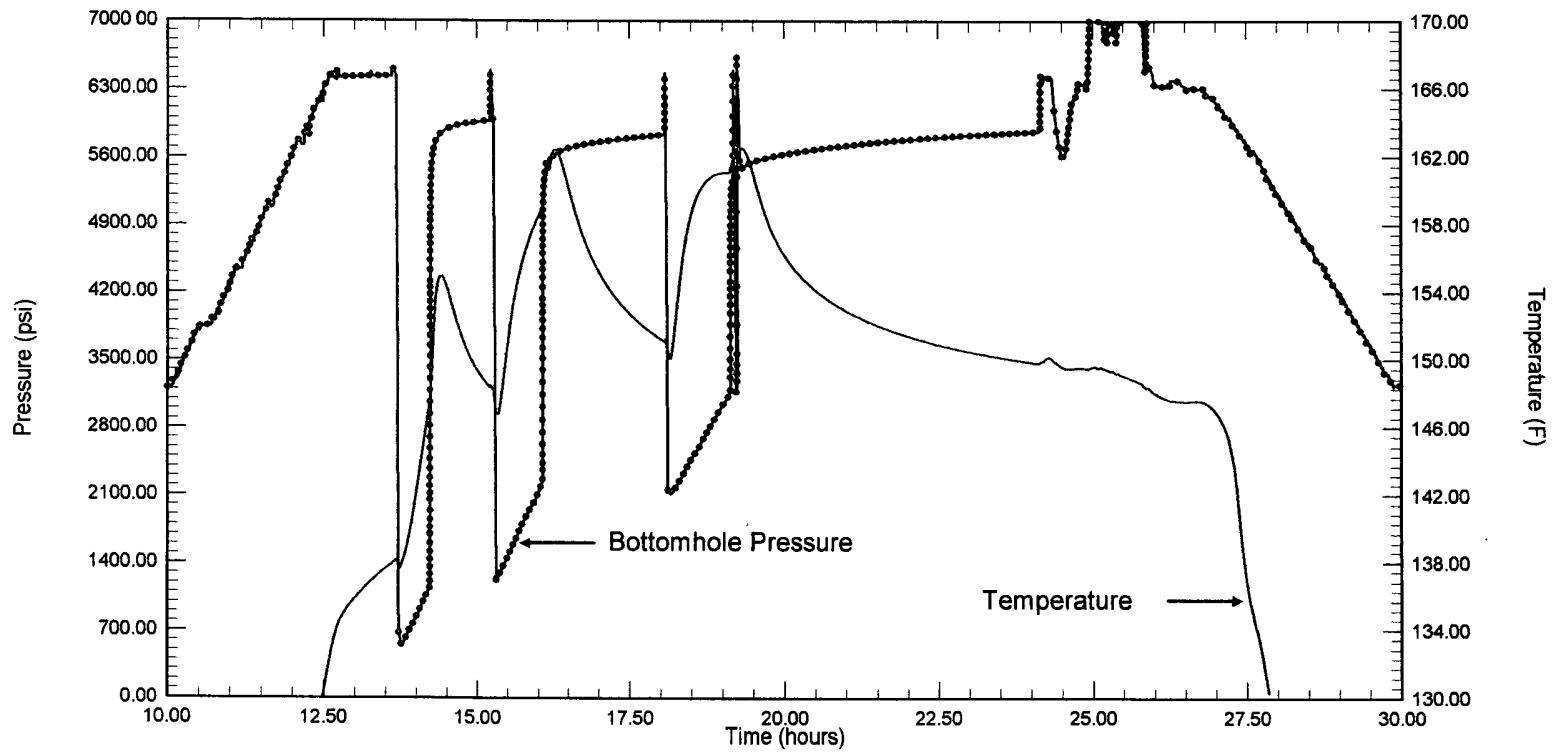
Pipe Recovery

<u>Description</u>	<u>Recovery</u> <u>feet</u>	<u>Pipe ID</u> <u>(in)</u>	<u>Recovery</u> <u>bbl</u>	<u>Oil Density</u> <u>API</u>	<u>RES</u> <u>ohm</u>	<u>CHL</u> <u>ppm</u>
Flowed and reversed 106 bbl to transport.						

**Cooper 24 Fed Com 2
W/C****11769467
02-May-07**

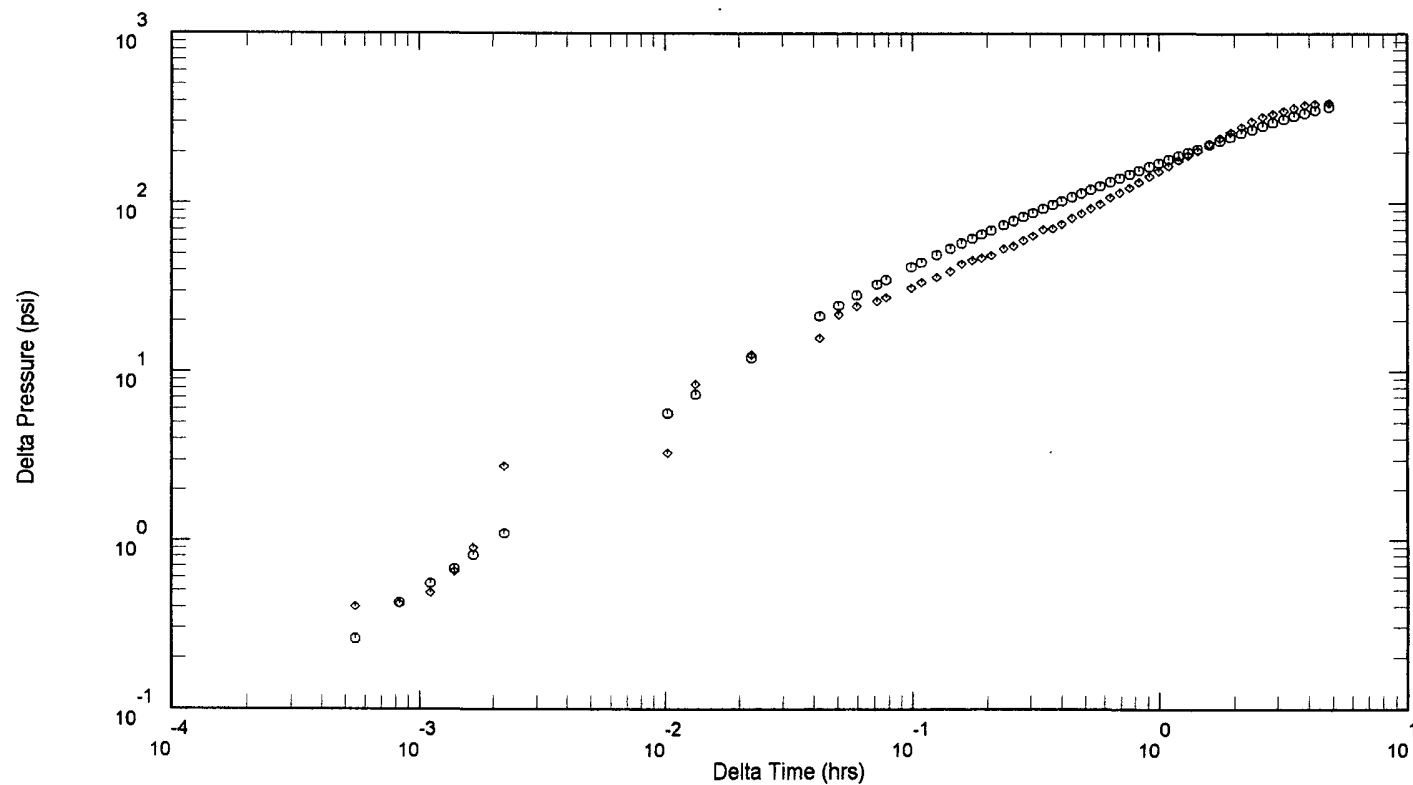
Date (dd-mmm-yy)	Time (hh:mm:ss)	Comments
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3-May-07	1:50	Set Packers
	1:56	Begin IF on 1/8" hose @ 2 oz.
	1:58	4.3 psig
	2:01	Chg'd Choke to 1/4" 23 psig
	2:03	32 psig
	2:08	40 psig
	2:13	48.5 psig
	2:18	55 psig Gas to Surface 2' flare
	2:24	End IF/ Begin ISI 58 psig
	3:24	End ISI (slight flare) 10 psig
	3:40	Begin 2nd Flow 10psig on 1/4" choke
	3:48	47 psig
	3:58	62 psig
	4:08	65 psig
	4:09	Condensate to surface 70 psig SI @ Surface
	4:15	End 2nd flow / Begin 2nd SI (closed tool) 200 psig
	4:24	Blow down to truck on 3/8" & 1/4" chokes 200 psig
	5:22	continue to blow down 60 psig
	6:15	End 2nd SI 10 psig
	6:22	Begin FF on 1/4" choke 11 psig into transport
	6:28	20 psig gas and oil
	6:38	46 psig
	6:48	45 psig slugging to 60 psig
	6:58	100 psig
	7:19	End Final Flow 275 psig
	7:31	Begin Final Shutin
	7:32	Blowing down to transport tank
	12:20	End FSI - total produced during test 58 bbls
	13:07	Dropped bar and reversed 48 bbls into transport
	14:20	Pumped slug down pipe and POOH

Bottomhole Pressure and Temperature Log

Gauge Depth : 1528 ft TVD - 11528 ft MD
Gauge ID : SLSR 1390

Log-log Plot - Third Shutin Period

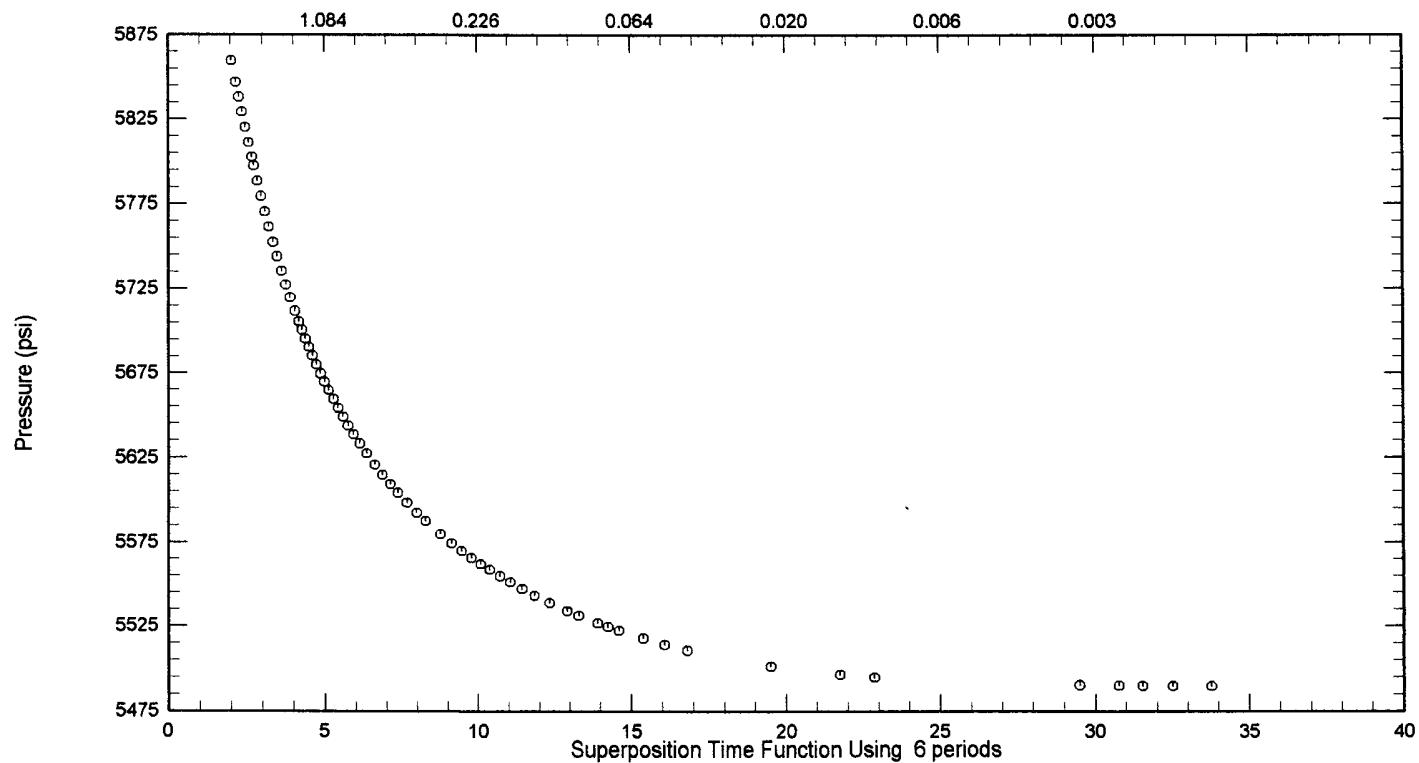


Gauge Depth : 1528 ft TVD - 11528 ft MD
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Semi-log Plot - Third Shutin Period



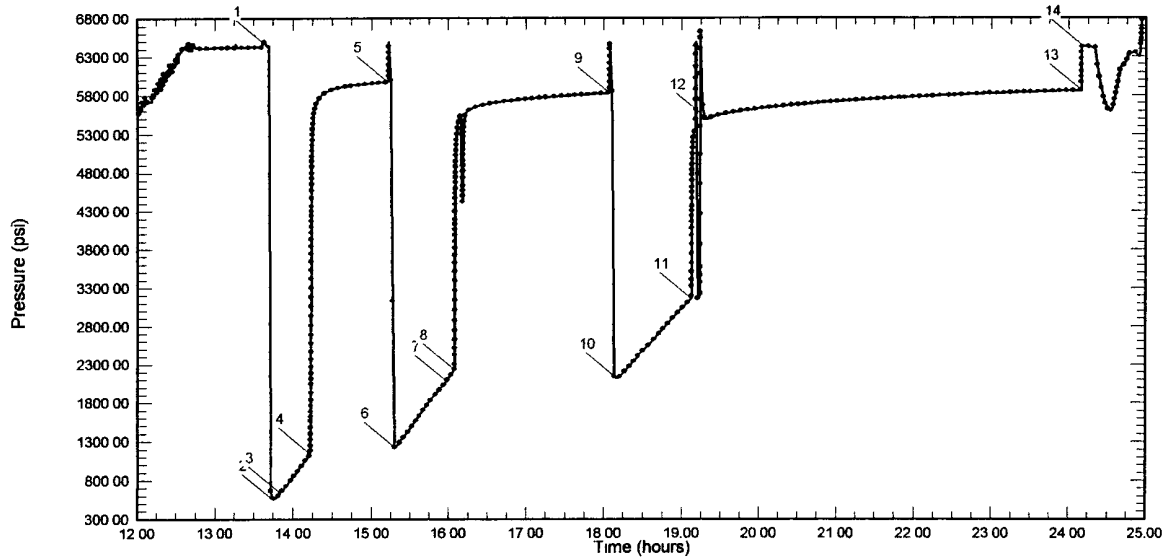
Gauge Depth : 1528 ft TVD - 11528 ft MD
Gauge ID : SLSR 1390

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Label Point Data
Patterson Petroleum
OH Straddle DST

Cooper 24 Fed Com 2
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Label Point / Comments	Date (dd-mmm-yy)	Time (hh:mm:ss)	Gauge ET (hours)	BHP (psia)	Rate (bopd)
Label Point Summary					
1) 01-Hydrostatic Pressure	03-May-07	1:51:31	13.675	6439.50	0
2) Start Flow	03-May-07	1:56:14	13.754	546.57	10
3) End Flow & Start Shut-in	03-May-07	2:24:11	14.220	1141.36	0
4) End Shut-in	03-May-07	3:23:50	15.214	5972.78	0
5) Start Flow	03-May-07	3:29:40	15.311	1218.36	10
6) End Flow & Start Shut-in	03-May-07	4:15:36	16.077	2234.41	0
7) End Shut-in	03-May-07	6:15:11	18.070	5828.99	0
8) Start Flow	03-May-07	6:21:43	18.179	2114.42	10
9) End Flow	03-May-07	7:18:31	19.125	3156.96	10
10) Start Shut-in	03-May-07	7:30:49	19.330	5489.18	0
11) End Shut-in	03-May-07	12:20:16	24.154	5859.72	0
12) Hydrostatic Pressure	03-May-07	12:21:27	24.174	6434.55	0