

## Well Data

Well Name: Tundra et al Daly  
 Location: 15-28-10-29 w1  
 Customer: Tundra Oil & Gas  
 Customer Rep.: Jed Sanderson  
 Tester: Kevin Moore  
 Test Type: Conventional Straddle

## TEST REPORT

Date: Jan. 25/96  
 Test Number: One  
 Formation: Bakken  
 Interval: 852 - 862  
 Total Depth: 880.1  
 KB Elev.: 533.72 Gr. Elev.: 529.52

COPY

Appendix 12

## Time-Pressure Data

Pre-Flow: 10 mins. ISI: 56 mins. Flow: 59 mins. FSI: 121 mins.

	Out	In	Out	
Rec. No. 20750E	Rec. No. 6165	Rec. No. 12592	Rec. No.	
Range 41369	Range 28269	Range 28958	Range	
Depth 858	Depth 859	Depth 863	Depth	
Initial Hydrostatic Pressure-	9767	9875	11252	
Initial Shut-in Pressure-	6122	6066		
Initial Flow Pressure-	521	590		
Final Flow Pressure-	806	756		
Final Shut-in Pressure-	6014	5923		
Final Hydrostatic Pressure-	9679	9790	10266	
Initial/Final Pre-flow-	321/375	374/374	8318	

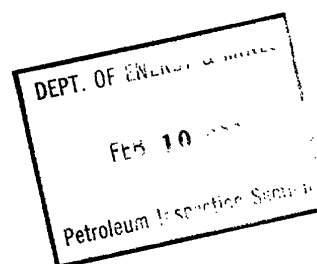
## Fluid Recovery

Total Recovery: 71 Meters

Recovered: 71 meters of Slightly oil-cut mud.  
 meters of  
 meters of  
 meters of

## Gas Recovery

Measured With	Reading	Temperature	Orifice Size	Flow Rate
Flow Time	kPa:	Degrees C:	MM:	M3/D:
Minutes:				



## Test Data

Net Pay (M):	1	% Porosity:	15.0%
Drill Pipe Size:	114.3	Drill Pipe Wt.:	24.7
Drill Collar ID:	63.5	D.C. Above Tool:	143m
Main Hole Size:	200	Packer Size:	177
Cushion Amount:	n/a	Cushion Type:	n/a
Wt. to Set Pckr:	15,000	Pull Free Wt.:	3,000
Bttm Hole Temp.:	28.33	Bttm Choke Size:	25.4
Tool Open At:	3:00 AM	Sampler:	n/a

Mud Type : Gel Chem Viscosity: 70 F/C: 1.6 W.L.: 9.0 WT: 1130

## Remarks

Preflow: Faint air blow - 1/8 inch into pail.

Valve Open: Faint air blow - 1/8 inch into pail.

Tundra et al Daly 15-28-10-29 w1 D.S.T. # 1 Jan. 25/96

**DOUBLE K OILFIELD TESTING LTD****Tool Sequence Report**

Well Name: Tundra et al Daly 15-28-10-29 w1

D.S.T. # 1

Tool	Length	O.D.
Pump out Sub	0.305	153
Change over Sub	0.305	153
Shut-in Tool	1.664	127
Hydraulic Tool	1.710	127
Jars	1.780	119
Safety Joint	0.670	127
Packer	1.555	177
Total	7.989	
Stub	0.310	127
Perf	5.791	121
Recorder	1.530	122
Recorder	1.530	122
Blank off Sub	0.305	122
Stub	0.440	127
Total	9.906	
Packer	1.480	177
Recorder	1.530	122
Blank	3.962	121
Change over Sub	0.305	153
Drill Pipe	9.550	114
Change over Sub	0.305	153
Bull Nose	0.742	122
Total	17.874	

**DOUBLE K OILFIELD TESTING LTD**

Well Name: Tundra et al Daly  
Location: 15-28-10-29 w1  
D.S.T. # One

Recorder # 20750E  
Depth: 858  
Page: One

<u>Stage</u>	<u>Time (Minutes)</u>	<u>Pressure (kPa)</u>	<u>(T + Delta T) /Delta T</u>
Pre-flow:	10	375	
Build-up after 1st flow -	0	375	
	5	4049	3.00
	10	5243	2.00
	15	5594	1.67
	20	5756	1.50
	25	5855	1.40
	30	5918	1.33
	35	5967	1.29
	40	6027	1.25
	45	6071	1.22
	50	6101	1.20
	55	6120	1.18
<b><u>Initial Shut-in Pressure:</u></b>	<b>56</b>	<b>6122</b>	<b>1.18</b>
Final Flow Period -	0	521	
	10	586	
	20	636	
	30	686	
	40	736	
	50	765	
<b><u>Final Flow Pressure:</u></b>	<b>59</b>	<b>806</b>	

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**DOUBLE K OILFIELD TESTING LTD**

Well Name: Tundra et al Daly  
Location: 15-28-10-29 w1  
D.S.T. # One

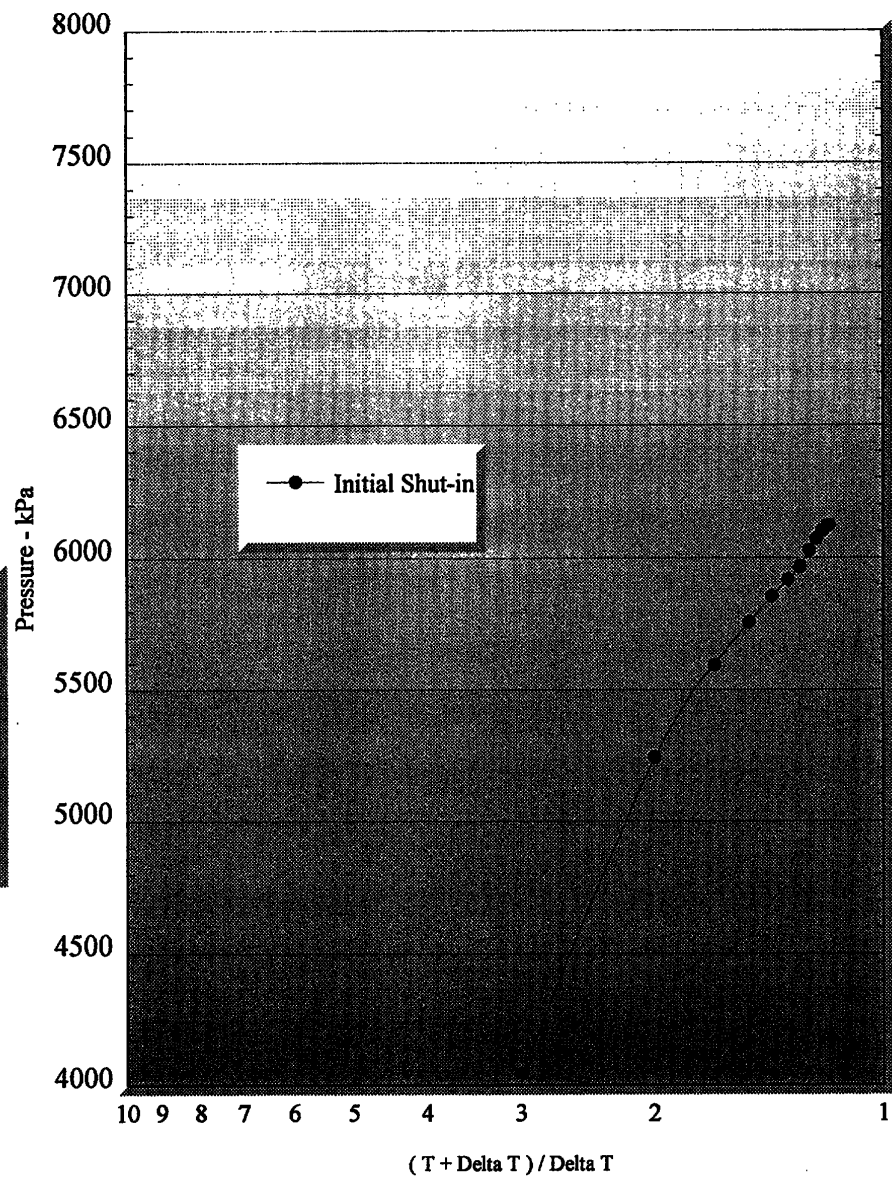
Recorder # 20750E  
Depth: 858  
Page: Two

<u>Stage</u>	<u>Time (Minutes)</u>	<u>Pressure (kPa)</u>	<u>(T + DeltaT) /Delta T</u>
Build-up after 2nd flow -	0	806	
	5	1506	12.80
	10	3213	6.90
	15	4712	4.93
	20	5251	3.95
	25	5462	3.36
	30	5592	2.97
	35	5675	2.69
	40	5733	2.48
	45	5779	2.31
	50	5812	2.18
	55	5837	2.07
	60	5863	1.98
	65	5892	1.91
	70	5903	1.84
	75	5919	1.79
	80	5932	1.74
	85	5946	1.69
	90	5957	1.66
	95	5968	1.62
<b>Final Shut-in Pressure:</b>	100	5978	1.59
	105	5987	1.56
	110	5999	1.54
	115	6005	1.51
	120	6013	1.49
	121	6014	1.49

Recorder #  
20750E  
Depth 358m

**INITIAL SHUT-IN:**

Initial shut-in  
pressure climbing  
too rapidly for  
accurate extrapo-  
lation



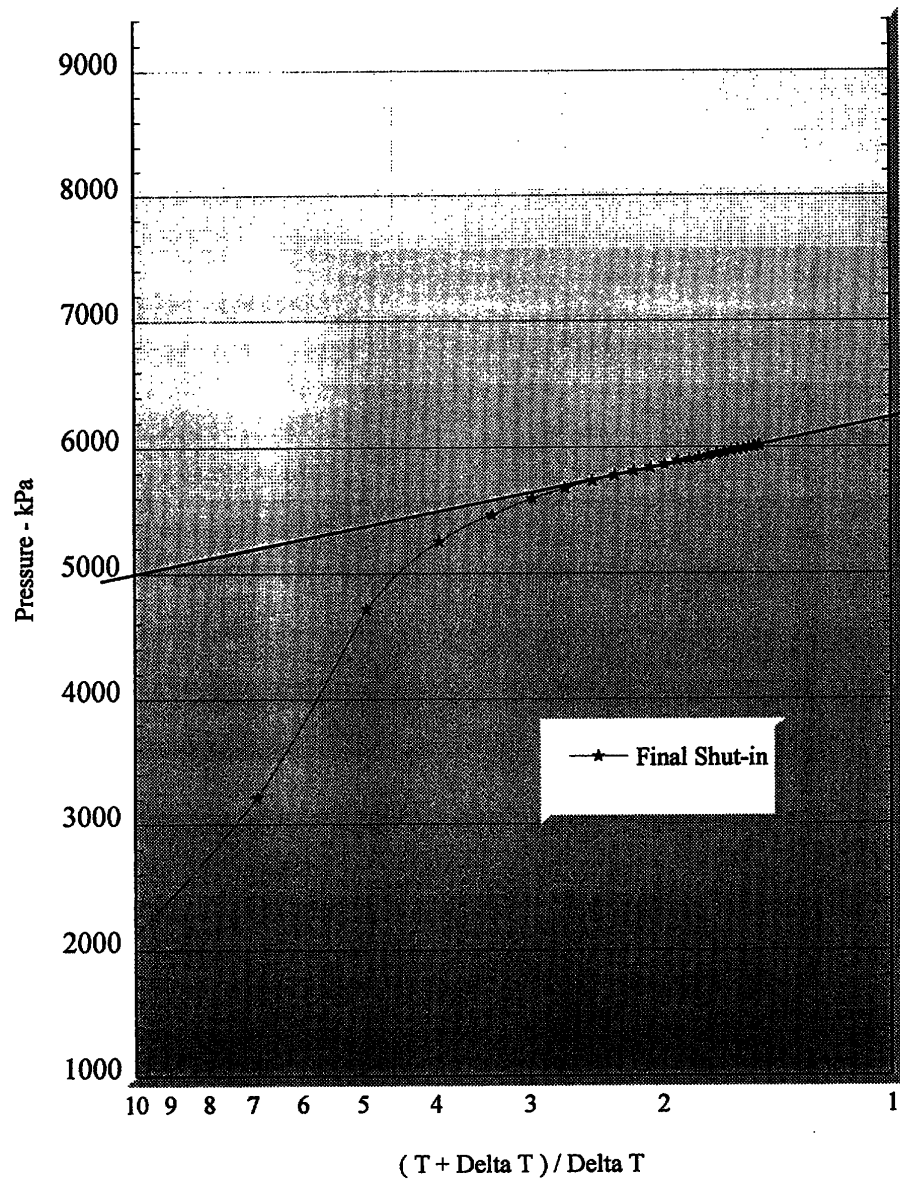
Recorder #:  
20750E

Depth: 858 m

**FINAL SHUT-IN:**

Extrapolated  
Pressure:  
6230 kPa

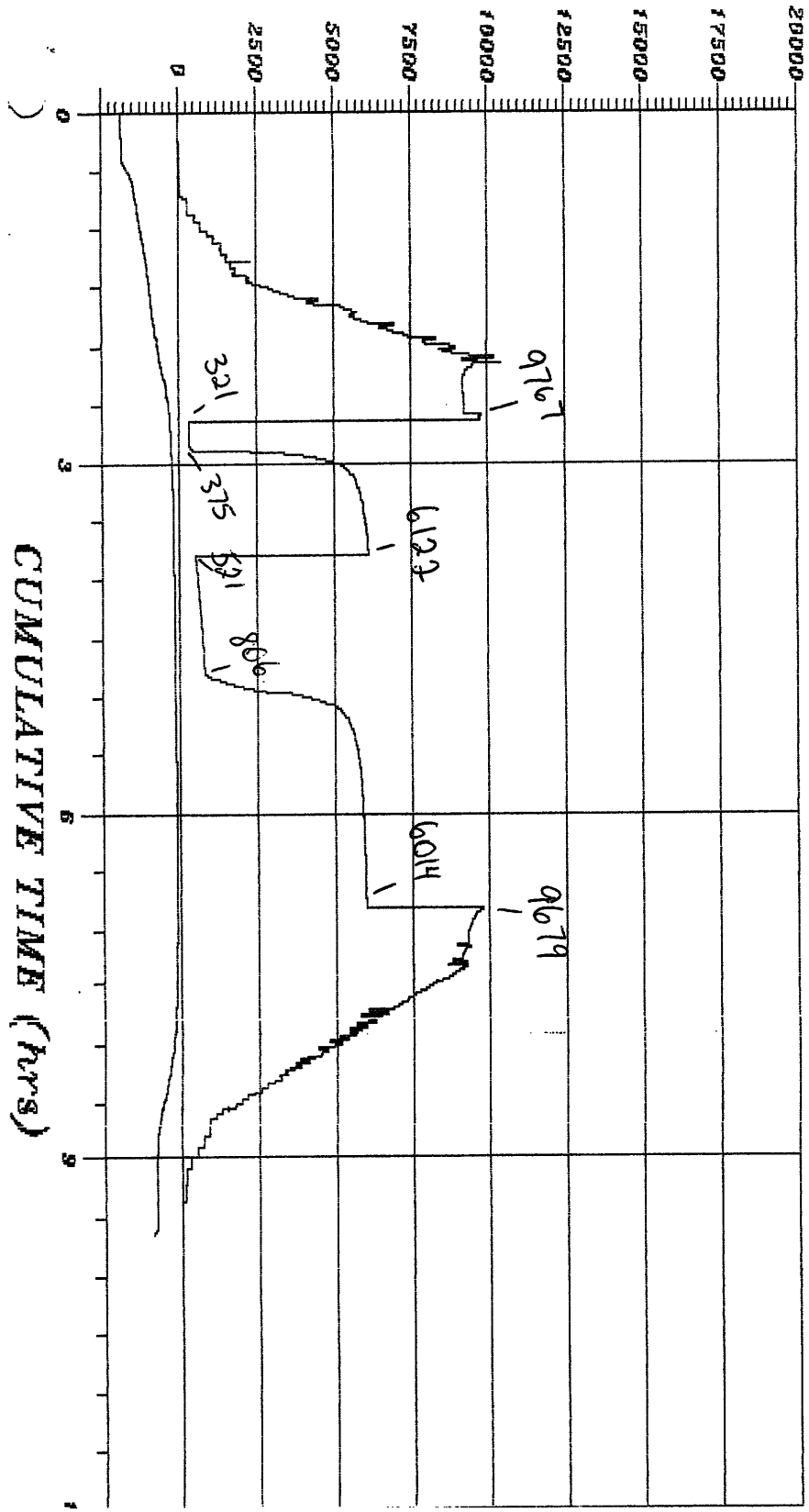
Slope 1230 kPa/  
cycle



# TUNDRA OIL & GAS

15-28-10-29 W1

Probe: 20750  
Pressure vs Time  
By DOUBLE K TESTING

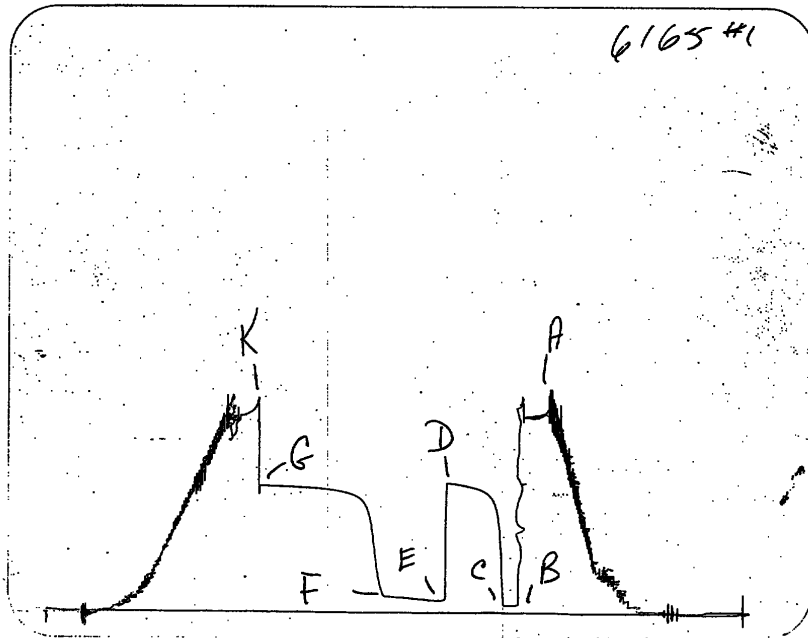


**CHART PRESSURES - POINTS SUMMARY**  
**D.S.T. # 1**

Recorder Type: AK 1

Rec. No.: 6165  
 Depth: 859  
 Range: 28269  
 Inside: X  
 Outside:

A - Initial Hydrostatic: 9875  
 B - Initial Flow: 374  
 C - Final Initial Flow: 374  
 D - Initial Shut-in: 6066  
 E - Second Initial Flow: 590  
 F - Second Final Flow: 756  
 G - Final Shut-in: 5923  
 K - Final Hydrostatic: 9790



Recorder Type: AK 1

Rec. No.: 12592  
 Depth: 863  
 Range: 28958  
 Inside:  
 Outside: X

A - Initial Hydrostatic: 11252  
 B - Initial Flow:  
 C - Final Initial Flow:  
 D - Initial Shut-in:  
 E - Second Initial Flow:  
 F - Second Final Flow:  
 G - Final Shut-in: 8318  
 K - Final Hydrostatic: 10266

