

Company Petroleum Technical Services, Inc. Lease & Well No. #1 "A" R. H. Donovan
Elevation 1566 Kelly Bushing Formation Simpson Sand Effective Pay -- Ft. Ticket No. 16177
Date 9/10/82 Sec. 1 Twp. 34S Range 13W County Barber State Kansas
Test Approved by Ken Hamlin Western Representative Rod Tritt

Formation Test No. 1 Interval Tested from 5020 ft. to 5050 ft. Total Depth 5050 ft.

Packer Depth 5015 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 5020 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 5024 ft. Recorder Number 2606 Cap. 4150

Bottom Recorder Depth (Outside) 5027 ft. Recorder Number 4332 Cap. 4200

Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Eagle Drilling Rig #1 Drill Collar Length 518 I. D. 2 1/4 in.

Mud Type chemical Viscosity 53 Weight Pipe Length - I. D. - in.

Weight 9.4 Water Loss 12.8 cc. Drill Pipe Length 4472 I. D. 3.8 in.

Chlorides 9,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.

Jars: Make WTC Serial Number 408 Anchor Length 30 ft. Size 5 1/2 OD in.

Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Strong blow. Gas to surface in fifteen minutes. See attached sheet for gas measurements.

Recovered 1050 ft. of clean gassy oil

Recovered 60 ft. of gas cut muddy oil

Recovered 60 ft. of froggy oil

Recovered - ft. of -

Recovered - ft. of -

Remarks: -

Time Set Packer(s) 3:05 ~~A.M.~~ P.M. Time Started Off Bottom 7:35 ~~A.M.~~ P.M. Maximum Temperature 135°

Initial Hydrostatic Pressure 2498 (A) P.S.I.

Initial Flow Period 30 Minutes (B) 108 P.S.I. to (C) 134 P.S.I.

Initial Closed In Period 66 Minutes (D) 1879 P.S.I.

Final Flow Period 60 Minutes (E) 192 P.S.I. to (F) 250 P.S.I.

Final Closed In Period 126 Minutes (G) 1889 P.S.I.

Final Hydrostatic Pressure 2498 (H) P.S.I.

GAS FLOW REPORT

Date 9/10/82 Ticket 16177 Company Petroleum Technical Services, Inc.
 Well Name and No. #1-"A" R.H. Donovan Dst No. 1 Interval Tested 5020'-5050'
 County Barber State Kansas Sec. 1 Twp. 34S Rg. 13W

Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	Size of Orifice	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	Description of Flow
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PRE FLOW

15 min.			1/2" orifice		Gas to surface
20 min.	22" of water		1/2" orifice		29,400 CFPD
30 min.	26" of water		1/2" orifice		31,900 CFPD

SECOND FLOW

10 min.	32" of water		1/2" orifice		35,500 CFPD
20 min.	22" of water		1/2" orifice		29,400 CFPD
30 min.	18" of water		1/2" orifice		26,600 CFPD
40 min.	14" of water		1/2" orifice		23,700 CFPD
50 min.	9" of water		1/2" orifice		18,800 CFPD
60 min.	5" of water		1/2" orifice		14,100 CFPD

GAS BOTTLE

Serial No. ---- Date Bottle Filled ---- Date to be Invoiced 9/10/82

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1 1/2% per month, equal to 18% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME Petroleum Technical Services, Inc.

Authorized by Ken Hamlin

WESTERN TESTING CO., INC.
Pressure Data

Date 9/10/82 Recorder No. 2606 Capacity 4150 Location 5024 Ft.
Clock No. -- Elevation 1566 Kelly Bushing Well Temperature 135 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2498 P.S.I.	Open Tool	3:05P	M
B First Initial Flow Pressure	108 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	134 P.S.I.	Initial Closed-in Pressure	60 Mins.	66 Mins.
D Initial Closed-in Pressure	1879 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	192 P.S.I.	Final Closed-in Pressure	120 Mins.	126 Mins.
F Second Final Flow Pressure	250 P.S.I.			
G Final Closed-in Pressure	1889 P.S.I.			
H Final Hydrostatic Mud	2498 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>22</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>42</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	108	0	134	0	192	0	250
P 2 5	108	3	168	5	192	3	596
P 3 10	109	6	417	10	192	6	950
P 4 15	113	9	730	15	193	9	1329
P 5 20	119	12	1118	20	198	12	1649
P 6 25	125	15	1643	25	204	15	1758
P 7 30	134	18	1775	30	211	18	1805
P 8		21	1820	35	220	21	1828
P 9		24	1841	40	227	24	1841
P10		27	1854	45	233	27	1853
P11		30	1859	50	238	30	1859
P12		33	1864	55	244	33	1865
P13		36	1868	60	250	36	1868
P14		39	1871			39	1870
P15		42	1874			42	1872
P16		45	1876			45	1874
P17		48	1877			48	1876
P18		51	1878			51	1878
P19		54	1879			54	1880
P20		57	1879			57	1880
		60	1879			60	1880
		63	1879				
		66	1879				

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Pressure Data

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A Initial Hydrostatic Mud	<u>2498</u> P.S.I.	Open Tool	<u>3:05P</u> M	
B First Initial Flow Pressure	<u>108</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>134</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>66</u> Mins.
D Initial Closed-in Pressure	<u>1879</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>192</u> P.S.I.	Final Closed-in Pressure	<u>120</u> Mins.	<u>126</u> Mins.
F Second Final Flow Pressure	<u>250</u> P.S.I.			
G Final Closed-in Pressure	<u>1889</u> P.S.I.			
H Final Hydrostatic Mud	<u>2498</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>22</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>42</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1						63	1880
P 2						66	1881
P 3						69	1882
P 4						72	1883
P 5						75	1884
P 6						78	1885
P 7						81	1886
P 8						84	1887
P 9						87	1888
P10						90	1889
P11						93	1889
P12						96	1889
P13						99	1889
P14						102	1889
P15						105	1889
P16						108	1889
P17						111	1889
P18						114	1889
P19						117	1889
P20						120	1889
						123	1889
						126	1889

2606 DST #1

TRT # 16177

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