

Company Zenith Drilling Corporation Lease & Well No. Alexander #2

Elevation --- Formation Simpson Effective Pay -- Ft. Ticket No. 15873

Date 6/17/82 Sec. 3 Twp. 30S Range 4W County Sumner State Kansas

Test Approved by Brad Pierce? Western Representative Richard Howell

Formation Test No. 1 Interval Tested from 4402 ft. to 4421 ft. Total Depth 4421 ft.

Packer Depth 4397 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4402 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4406 ft. Recorder Number 13402 Cap. 4025

Bottom Recorder Depth (Outside) 4409 ft. Recorder Number 13267 Cap. 4050

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

Drilling Contractor D. N. B. Drilling Drill Collar Length 557 I. D. 2 1/4 in.

Mud Type starch Viscosity 47 Weight Pipe Length - I. D. - in.

Weight 9.7 Water Loss 9.6 cc. Drill Pipe Length 3825 I. D. 3.8 in.

Chlorides 22,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.

Jars: Make - Serial Number - Anchor Length 19 ft. Size 5 1/2 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 XH in.

Blow: Initial flow period weak and died in two minutes. Final flow period no blow; flushed tool; few bubbles and died.

Recovered 5 ft. of drilling mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Flushed tool in final flow.

Time Set Packer(s) 12:00 ~~A.M.~~ P.M. Time Started Off Bottom 2:00 ~~A.M.~~ P.M. Maximum Temperature 139°

Initial Hydrostatic Pressure (A) 2241 P.S.I.

Initial Flow Period Minutes 30 (B) 29 P.S.I. to (C) 29 P.S.I.

Initial Closed In Period Minutes 30 (D) 29 P.S.I.

Final Flow Period Minutes 30 (E) 29 P.S.I. to (F) 29 P.S.I.

Final Closed In Period Minutes 33 (G) 29 P.S.I.

Final Hydrostatic Pressure (H) 2221 P.S.I.

WESTERN TESTING-CO., INC.
Pressure Data

Date 6/17/82 Test Ticket No. 15873
 Recorder No. 13402 Capacity 4025 Location 4406 Ft.
 Clock No. -- Elevation -- Well Temperature 139 °F

Point	Pressure			Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>2241</u>	P.S.I.	Open Tool	<u>12:00P</u>	<u>M</u>
B. First Initial Flow Pressure	<u>29</u>	P.S.I.	First Flow Pressure	<u>30</u>	<u>Mins. 30</u> Mins.
C. First Final Flow Pressure	<u>29</u>	P.S.I.	Initial Closed-in Pressure	<u>30</u>	<u>Mins. 30</u> Mins.
D. Initial Closed-in Pressure	<u>29</u>	P.S.I.	Second Flow Pressure	<u>30</u>	<u>Mins. 30</u> Mins.
E. Second Initial Flow Pressure	<u>29</u>	P.S.I.	Final Closed-in Pressure	<u>30</u>	<u>Mins. 33</u> Mins.
F. Second Final Flow Pressure	<u>29</u>	P.S.I.			
G. Final Closed-in Pressure	<u>29</u>	P.S.I.			
H. Final Hydrostatic Mud	<u>2221</u>	P.S.I.			

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.
	of <u>6</u> mins. and a final inc. of <u>0</u> Min.		of <u>10</u> mins. and a final inc. of <u>0</u> Min.		of <u>6</u> mins. and a final inc. of <u>0</u> Min.		of <u>11</u> mins. and a final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1 <u>0</u>	<u>29</u>	<u>0</u>	<u>29</u>	<u>0</u>	<u>29</u>	<u>0</u>	<u>29</u>	
P 2 <u>5</u>	<u>29</u>	<u>3</u>	<u>29</u>	<u>5</u>	<u>19</u>	<u>3</u>	<u>29</u>	
P 3 <u>10</u>	<u>29</u>	<u>6</u>	<u>29</u>	<u>10</u>	<u>19</u>	<u>6</u>	<u>29</u>	
P 4 <u>15</u>	<u>29</u>	<u>9</u>	<u>29</u>	<u>15</u>	<u>19</u>	<u>9</u>	<u>29</u>	
P 5 <u>20</u>	<u>29</u>	<u>12</u>	<u>29</u>	<u>20</u>	<u>19</u>	<u>12</u>	<u>29</u>	
P 6 <u>25</u>	<u>29</u>	<u>15</u>	<u>29</u>	<u>25</u>	<u>19</u>	<u>15</u>	<u>29</u>	
P 7 <u>30</u>	<u>29</u>	<u>18</u>	<u>29</u>	<u>30</u>	<u>19</u>	<u>18</u>	<u>29</u>	
P 8 _____	_____	<u>21</u>	<u>29</u>	_____	_____	<u>21</u>	<u>29</u>	
P 9 _____	_____	<u>24</u>	<u>29</u>	_____	_____	<u>24</u>	<u>29</u>	
P10 _____	_____	<u>27</u>	<u>29</u>	_____	_____	<u>27</u>	<u>29</u>	
P11 _____	_____	<u>30</u>	<u>29</u>	_____	_____	<u>30</u>	<u>29</u>	
P12 _____	_____	_____	_____	_____	_____	<u>33</u>	<u>29</u>	
P13 _____	_____	_____	_____	_____	_____	_____	_____	
P14 _____	_____	_____	_____	_____	_____	_____	_____	
P15 _____	_____	_____	_____	_____	_____	_____	_____	
P16 _____	_____	_____	_____	_____	_____	_____	_____	
P17 _____	_____	_____	_____	_____	_____	_____	_____	
P18 _____	_____	_____	_____	_____	_____	_____	_____	
P19 _____	_____	_____	_____	_____	_____	_____	_____	
P20 _____	_____	_____	_____	_____	_____	_____	_____	

TKT 15873

#13402 DST #1

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