

Company Cascade Oil Company Lease & Well No. Vogel #1  
 Elevation 1367 Kelly Bushing Formation Mississippi Effective Pay -- Ft. Ticket No. 3255  
 Date 8/13/79 Sec. 9 Twp. 19S Range 4E County Marion State Kansas  
 Test Approved by H. J. Groves Western Representative W. K. Hager

Formation Test No. 1 Interval Tested from 2321 ft. to 2345 ft. Total Depth 2345 ft.  
 Packer Depth 2316 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 2321 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Depth of Selective Zone Set --

Top Recorder Depth (Inside) 2331 ft. Recorder Number 1558 Cap. 4200  
 Bottom Recorder Depth (Outside) 2334 ft. Recorder Number 1559 Cap. 4200  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Triangle #2 Drill Collar Length - I. D. - in.  
 Mud Type chemical Viscosity 37 Weight Pipe Length - I. D. - in.  
 Weight 9.4 Water Loss 16.8 cc. Drill Pipe Length 2301 I. D. 3.8 in.  
 Chlorides 1,400 P.P.M. Test Tool Length 44 ft. Tool Size 5 1/2 in.  
 Jars: Make -- Serial Number -- Anchor Length 24 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 FH in.

Blow: Strong blow on initial flow period/strong blow on final flow period..

Recovered 460 ft. of gas in pipe  
 Recovered 61 ft. of mud  
 Recovered - ft. of -  
 Recovered - ft. of -  
 Recovered - ft. of -

Remarks: \_\_\_\_\_

Time Set Packer(s) 1:00 ~~PM~~ <sup>A.M.</sup> Time Started Off Bottom 4:30 ~~PM~~ <sup>A.M.</sup> Maximum Temperature 103  
 Initial Hydrostatic Pressure ..... (A) 1180 P.S.I.  
 Initial Flow Period ..... Minutes 45 (B) 51 P.S.I. to (C) 36 P.S.I.  
 Initial Closed In Period ..... Minutes 54 (D) 226 P.S.I.  
 Final Flow Period ..... Minutes 60 (E) 63 P.S.I. to (F) 40 P.S.I.  
 Final Closed In Period ..... Minutes 60 (G) 205 P.S.I.  
 Final Hydrostatic Pressure ..... (H) 1121 P.S.I.

**WESTERN TESTING CO., INC.**  
**Pressure Data**

Date 8/13/79 Test Ticket No. 3255  
 Recorder No. 1558 Capacity 4200 Location 2331 Ft.  
 Clock No. -- Elevation 1367 Kelly Bushing Well Temperature 103 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1180	P.S.I.	1:00A	M
B First Initial Flow Pressure	51	P.S.I.	45	Mins. 45 Mins.
C First Final Flow Pressure	36	P.S.I.	45	Mins. 54 Mins.
D Initial Closed-in Pressure	226	P.S.I.	60	Mins. 60 Mins.
E Second Initial Flow Pressure	63	P.S.I.	60	Mins. 60 Mins.
F Second Final Flow Pressure	40	P.S.I.		
G Final Closed-in Pressure	205	P.S.I.		
H Final Hydrostatic Mud	1121	P.S.I.		

**PRESSURE BREAKDOWN**

**First Flow Pressure**  
 Breakdown: 9 Inc.  
 of 5 mins. and a  
 final inc. of 0 Min.

**Initial Shut-In**  
 Breakdown: 18 Inc.  
 of 3 mins. and a  
 final inc. of 0 Min.

**Second Flow Pressure**  
 Breakdown: 12 Inc.  
 of 5 mins. and a  
 final inc. of 0 Min.

**Final Shut-In**  
 Breakdown: 20 Inc.  
 of 3 mins. and a  
 final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	0	51	0	36	0	63	40
P 2	5	37	3	44	5	45	41
P 3	10	32	6	67	10	39	57
P 4	15	33	9	91	15	39	74
P 5	20	34	12	110	20	39	87
P 6	25	34	15	124	25	39	108
P 7	30	35	18	138	30	39	120
P 8	35	35	21	148	35	40	137
P 9	40	36	24	161	40	40	146
P10	45	36	27	172	45	40	156
P11			30	181	50	40	164
P12			33	190	55	40	171
P13			36	196	60	40	175
P14			39	205			178
P15			42	211			186
P16			45	217			191
P17			48	219			195
P18			51	223			197
P19			54	226			200
P20							203
							205

TKA 3255

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