Company Columbine Exploration Corporation Lease & Well No. Jones #1

Elevation --- Formation Mississippi Effective Pay -- Ft. Ticket No. 14897

Date 7/2/81 Sec. 3 Twp. 34S Range 9W County Harper State Kansas

Test Approved by Lee Poulsen Western Representative Les Holtz

Formation Test No. 1 Interval Tested from 4576 ft. to 4602 ft. Total Depth 4602 ft.

Packer Depth 4571 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth 4576 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4595 ft. Recorder Number 13267 Cap. 4050

Bottom Recorder Depth (Outside) 4598 ft. Recorder Number 1051 Cap. 4250

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

Drilling Contractor DaMac Drlg. Rig #1 Drill Collar Length - I. D. - in.

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

Weight 9.0 Water Loss 11.2 cc. Drill Pipe Length 4554 I. D. 3.8 in.

Chlorides 10,000 P.P.M. Test Tool Length 22 ft. Tool Size 5½ in.

Jars: Make No Serial Number - Anchor Length 26 ft. Size 5½ 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 4½ in.

Blow: Weak; dead in fourteen minutes on initial flow period.

Weak, dead four minutes on final flow period.

Recovered 25 ft. of drilling mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 9:15 ~~A.M.~~ P.M. Time Started Off Bottom 12:15 A.M. ~~P.M.~~ Maximum Temperature 131°

Initial Hydrostatic Pressure		(A) 2337 P.S.I.		
Initial Flow Period	Minutes 30	(B) 48 P.S.I.	to (C) 48 P.S.I.	
Initial Closed In Period	Minutes 30	(D) 46 P.S.I.		
Final Flow Period	Minutes 60	(E) 46 P.S.I.	to (F) 44 P.S.I.	
Final Closed In Period	Minutes 60	(G) 51 P.S.I.		
Final Hydrostatic Pressure		(H) 2307 P.S.I.		

WESTERN TESTING CO., INC.
Pressure Data

Date 7/2/81 Test Ticket No. 14897

Recorder No. 13267 Capacity 4050 Location 4595 Ft.

Clock No. --- Elevation --- Well Temperature 131 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2337	P.S.I.	Open Tool	9:15P M	
B	First Initial Flow Pressure	48	P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	48	P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D	Initial Closed-in Pressure	46	P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E	Second Initial Flow Pressure	46	P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F	Second Final Flow Pressure	44	P.S.I.			
G	Final Closed-in Pressure	51	P.S.I.			
H	Final Hydrostatic Mud	2307	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

Initial Shut-In
Breakdown: 10 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	First Flow Pressure Mins.	First Flow Pressure Press.	Initial Shut-In Point Minutes	Initial Shut-In Press.	Second Flow Pressure Point Minutes	Second Flow Pressure Press.	Final Shut-In Point Minutes	Final Shut-In Press.
P 1	0	48	0	48	0	46	0	44
P 2	5	48	3	46	5	46	3	45
P 3	10	48	6	46	10	46	6	45
P 4	15	48	9	46	15	46	9	46
P 5	20	48	12	46	20	46	12	46
P 6	25	48	15	46	25	46	15	47
P 7	30	48	18	46	30	46	18	48
P 8			21	46	35	46	21	48
P 9			24	46	40	46	24	49
P10			27	46	45	46	27	49
P11			30	46	50	45	30	50
P12					55	45	33	50
P13					60	44	36	50
P14							39	50
P15							42	50
P16							45	51
P17							48	51
P18							51	51
P19							54	51
P20							57	51
							60	51

JKt # 14897

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