



WESTERN TESTING CO., INC.  
FORMATION TESTING

LAST  
No 18953

P. O. BOX 1599 PHONE (316) 262-5861  
WICHITA, KANSAS 67201

EST. 2270 GL  
Elevation 2275 KB Formation Miss Eff. Pay — Ft.

District GT. Bend Date 1-12-93 Customer Order No. —

COMPANY NAME Raydon Exploration, Inc.

ADDRESS 9400 Bentham Place, Suite 400 OKLAHOMA CITY, OKLAHOMA 73114

LEASE AND WELL NO. Molitor #1-25 COUNTY Ford STATE Ko Sec. 25 Twp. 26 Rge. 21

Mail Invoice To Same Molitor No. Copies Requested Reg

Co. Name SAME Address #1-25 No. Copies Requested Reg

Mail Charts To SAME Address #1-25 No. Copies Requested Reg

Formation Test No. 1 Interval Tested From 4754 ft. to 4810 ft. Total Depth 4810 ft.

Packer Depth 4749 ft. Size 6 3/8 in. Packer Depth — ft. Size — in.

Packer Depth 4754 ft. Size 6 3/8 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside) 4802 ft. Recorder Number 10270 Cap. 4150

Bottom Recorder Depth (Outside) 4805 ft. Recorder Number 13550 Cap. 4175

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

Drilling Contractor JAL Energy rig 1 Drill Collar Length 30 I. D. 2.2 in.

Mud Type Chemical Viscosity 49 Weight Pipe Length — I. D. — in.

Weight 9.2 Water Loss 8 cc. Drill Pipe Length 4697 I. D. 3.8 in.

Chlorides 4300 P.P.M. Test Tool Length 27 ft. Tool Size 5 1/2 in.

Jars: Make WTC Serial Number 422 Anchor Length 56 ft. Size 5 1/2 in.

Did Well Flow? — Reversed Out yes 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: IF - WEAK TO A STRONG BLOW IN 2 MIN  
FF - STRONG BLOW THROUGHOUT

Recovered 1680 ft. of CLEAN GASSY OIL GRAVITY 38

Recovered 120 ft. of Muddy Gassy Oil

Recovered — ft. of 76% oil 14% gas 10% mud

Recovered — ft. of JAN 15 1993

Chlorides — P.P.M. Sample Jars used 5 Remarks: gas surfaced on final shut-in

Tight Hole

Time On Location 3:00 A.M. Time Pick Up Tool 5:15 P.M. Time Off Location 4:00 A.M.

Time Set Packer(s) 7:10 P.M. Time Started Off Bottom 11:10 P.M. Maximum Temperature 124

Initial Hydrostatic Pressure (A) 2316 P.S.I.

Initial Flow Period (B) 30 Minutes (B) 145 P.S.I. to (C) 322 P.S.I.

Initial Closed In Period (D) 60 Minutes (D) 1475 P.S.I.

Final Flow Period (E) 60 Minutes (E) 395 P.S.I. to (F) 676 P.S.I.

Final Closed In Period (G) 90 Minutes (G) 1475 P.S.I.

Final Hydrostatic Pressure (H) 2316 P.S.I.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By [Signature]  
Signature of Customer or his authorized representative

Western Representative Ray Schwager Thank you

FIELD INVOICE

Open Hole Test 600  
Misrun \$  
Straddle Test \$  
Jars 225  
Selective Zone \$  
Safety Joint 25  
Standby \$  
Evaluation \$  
Extra Packer \$  
Circ. Sub. 35  
Mileage \$  
Fluid Sampler \$  
Extra Charts \$  
Insurance \$  
Telecopier \$  
TOTAL 885

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

Date 1-12-92 Test Ticket No. 18955  
 Recorder No. 10270 Capacity \_\_\_\_\_ Location \_\_\_\_\_ Ft.  
 Clock No. \_\_\_\_\_ Elevation \_\_\_\_\_ Well Temperature \_\_\_\_\_ °F

Point	Pressure	P.S.I.	Open Tool	M	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2368</u>	P.S.I.	_____	_____	_____	_____
B First Initial Flow Pressure	<u>159</u>	P.S.I.	First Flow Pressure	_____	Mins. <u>20</u>	Mins.
C First Final Flow Pressure	<u>541</u>	P.S.I.	Initial Closed-in Pressure	_____	Mins. <u>60</u>	Mins.
D Initial Closed-in Pressure	<u>1490</u>	P.S.I.	Second Flow Pressure	_____	Mins. <u>55</u>	Mins.
E Second Initial Flow Pressure	<u>414</u>	P.S.I.	Final Closed-in Pressure	_____	Mins. <u>90</u>	Mins.
F Second Final Flow Pressure	<u>697</u>	P.S.I.				
G Final Closed-in Pressure	<u>1487</u>	P.S.I.				
H Final Hydrostatic Mud	<u>2335</u>	P.S.I.				

**PRESSURE BREAKDOWN**

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ 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	<u>159</u>	0	<u>541</u>	0	<u>414</u>	0	<u>697</u>
P 2 5	<u>159</u>	3	<u>151</u>	5	<u>418</u>	3	<u>1184</u>
P 3 10	<u>187</u>	6	<u>150</u>	10	<u>441</u>	6	<u>1270</u>
P 4 15	<u>219</u>	9	<u>1309</u>	15	<u>479</u>	9	<u>1309</u>
P 5 20	<u>265</u>	12	<u>1343</u>	20	<u>510</u>	12	<u>1338</u>
P 6 25	<u>301</u>	15	<u>1368</u>	25	<u>529</u>	15	<u>1358</u>
P 7 30	<u>341</u>	18	<u>1387</u>	30	<u>566</u>	18	<u>1372</u>
P 8 35		21	<u>1405</u>	35	<u>593</u>	21	<u>1381</u>
P 9 40		24	<u>1418</u>	40	<u>615</u>	24	<u>1395</u>
P10 45		27	<u>1421</u>	45	<u>642</u>	27	<u>1406</u>
P11 50		30	<u>1429</u>	50	<u>667</u>	30	<u>1415</u>
P12 55		33	<u>1446</u>	55	<u>697</u>	33	<u>1421</u>
P13 60		36	<u>1452</u>	60		36	<u>1424</u>
P14 65		39	<u>1458</u>	65		39	<u>1426</u>
P15 70		42	<u>1462</u>	70		42	<u>1439</u>
P16 75		45	<u>1466</u>	75		45	<u>1445</u>
P17 80		48	<u>1471</u>	80		48	<u>1450</u>
P18 85		51	<u>1477</u>	85		51	<u>1454</u>
P19 90		54	<u>1480</u>	90		54	<u>1460</u>
P20 95		57	<u>1482</u>	95		57	<u>1462</u>
100		60	<u>1485</u>	100		60	<u>1465</u>
		<u>65</u>	<u>1490</u>				

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

Date \_\_\_\_\_ Test Ticket No. \_\_\_\_\_  
 Recorder No. \_\_\_\_\_ Capacity \_\_\_\_\_ Location \_\_\_\_\_ Ft. \_\_\_\_\_  
 Clock No. \_\_\_\_\_ Elevation \_\_\_\_\_ Well Temperature \_\_\_\_\_ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud _____	P.S.I. _____	Open Tool _____	M _____	
B First Initial Flow Pressure _____	P.S.I. _____	First Flow Pressure _____	Mins. _____	Mins. _____
C First Final Flow Pressure _____	P.S.I. _____	Initial Closed-in Pressure _____	Mins. _____	Mins. _____
D Initial Closed-in Pressure _____	P.S.I. _____	Second Flow Pressure _____	Mins. _____	Mins. _____
E Second Initial Flow Pressure _____	P.S.I. _____	Final Closed-in Pressure _____	Mins. _____	Mins. _____
F Second Final Flow Pressure _____	P.S.I. _____			
G Final Closed-in Pressure _____	P.S.I. _____			
H Final Hydrostatic Mud _____	P.S.I. _____			

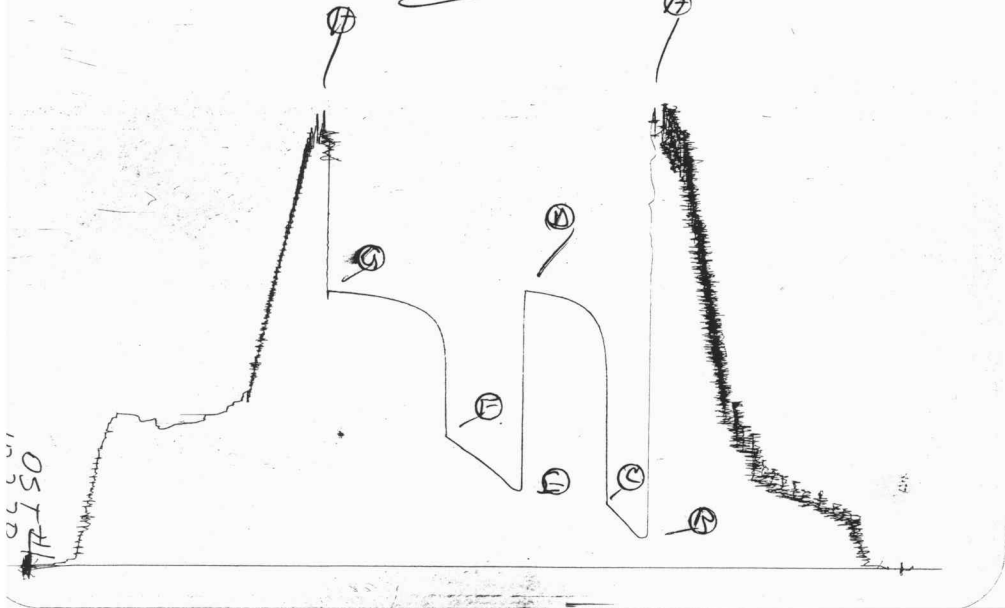
**PRESSURE BREAKDOWN**

Point Mins.	First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In
	Breakdown: _____ Inc.	Breakdown: _____ Inc.	Breakdown: _____ Inc.	Breakdown: _____ Inc.
	of _____ mins. and a final inc. of _____ Min.	of _____ mins. and a final inc. of _____ Min.	of _____ mins. and a final inc. of _____ Min.	of _____ mins. and a final inc. of _____ Min.
	Press.	Point Minutes Press.	Point Minutes Press.	Point Minutes Press.
P 1	105	63	105	63
P 2	110	66	110	66
P 3	115	69	115	69
P 4	120	72	120	72
P 5	125	75	125	75
P 6	130	78	130	78
P 7	135	81	135	81
P 8	140	84	140	84
P 9	145	87	145	87
P10	150	90	150	90
P11	155	93	155	93
P12	160	96	160	96
P13	165	99	165	99
P14	170	102	170	102
P15	175	105	175	105
P16	180	108	180	108
P17	185	111	185	111
P18	190	114	190	114
P19	195	117	195	117
P20	200	120	200	120

*Handwritten pressure values:*  
 1468  
 1471  
 1474  
 1476  
 1478  
 1480  
 1482  
 1484  
 1486  
 1487

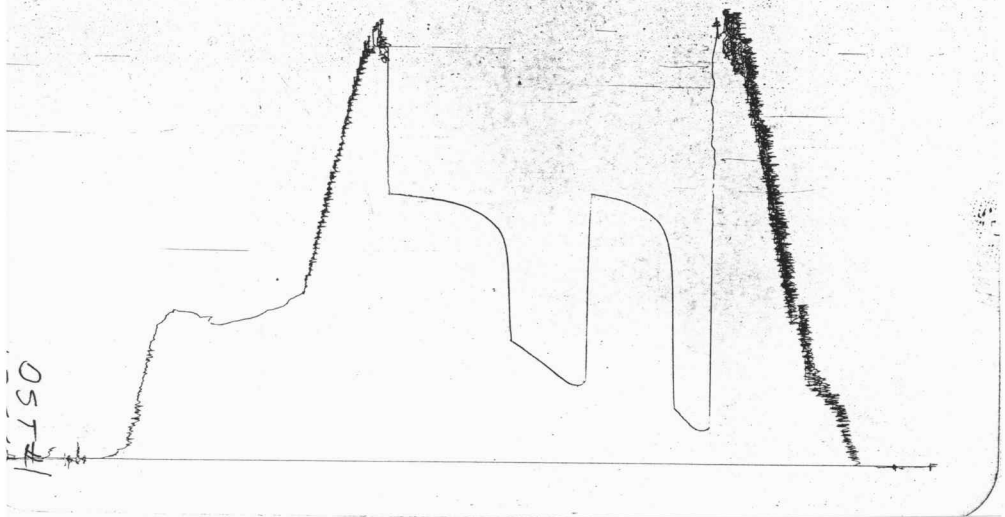
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# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone **1 - 800-688-7021**

DST REPORT

GENERAL INFORMATION

DATE : 1/12/93  
CUSTOMER : RAYDON EXPLORATION, INC.  
WELL : 1-25 TEST: 1  
ELEVATION: 2275 KB  
SECTION : 25  
RANGE : 21W COUNTY: FORD  
GAUGE SN#: 10270 RANGE : 4150  
TICKET : 18953  
LEASE : MOLITOR  
GEOLOGIST: BEN LANDES  
FORMATION: MISSISSIPPI  
TOWNSHIP : 26S  
STATE : KS  
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4754.00 ft TO: 4810.00 ft TVD: 4810.0 ft  
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL  
DEPTH OF RECORDERS: 4802.0 ft 4805.0 ft  
TEMPERATURE: 124.0  
DRILL COLLAR LENGTH: 30.0 ft I.D.: 2.200 in  
WEIGHT PIPE LENGTH : 0.0 ft I.D.: 0.000 in  
DRILL PIPE LENGTH : 4697.0 ft I.D.: 3.800 in  
TEST TOOL LENGTH : 27.0 ft TOOL SIZE : 5.500 in  
ANCHOR LENGTH : 56.0 ft ANCHOR SIZE: 5.500 in  
SURFACE CHOKE SIZE : 0.750 in BOTTOM CHOKE SIZE: 0.750 in  
MAIN HOLE SIZE : 7.875 in TOOL JOINT SIZE : 4.5XH  
PACKER DEPTH: 4749.0 ft SIZE: 6.630 in  
PACKER DEPTH: 4754.0 ft SIZE: 6.630 in  
PACKER DEPTH: 0.0 ft SIZE: 0.000 in  
PACKER DEPTH: 0.0 ft SIZE: 0.000 in

MUD INFORMATION

DRILLING CON. : VAL ENERGY RIG 1  
MUD TYPE : CHEMICAL VISCOSITY : 49.00 cp  
WEIGHT : 9.200 ppg WATER LOSS: 8.000 cc  
CHLORIDES : 4300 ppm  
JARS-MAKE : W.T.C. SERIAL NUMBER: 422  
DID WELL FLOW?: NO REVERSED OUT?: YES

COMMENTS

Comment

TIGHT HOLE  
INITIAL FLOW PERIOD WEAK TO A STRONG BLOW IN 2  
MINUTES. FINAL FLOW PERIOD STRONG BLOW THROUGHOUT.

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

GAS SURFACED ON FINAL SHUT-IN PERIOD.

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
1680.0	100.0	0.0	0.0	0.0	CLEAN GASSY OIL
0.0	0.0	0.0	0.0	0.0	GRAVITY 38
120.0	76.0	14.0	0.0	10.0	MUDDY GASSY OIL

RATE INFORMATION

OIL VOLUME:	24.6309	STB	TOTAL FLOW TIME:	85.0000	min.
GAS VOLUME:	1.1032	SCF	AVERAGE OIL RATE:	419.6535	STB/D
MUD VOLUME:	0.1403	STB	AVERAGE WATER RATE:	0.0000	STB/D
WATER VOLUME:	0.0000	STB			
TOTAL FLUID :	24.7712	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2316.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	145.00	322.00
INITIAL SHUT-IN	60.00		1475.00
FINAL FLOW	60.00	395.00	676.00
FINAL SHUT-IN	90.00		1475.00

FINAL HYDROSTATIC PRESSURE: 2316.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2368.00

<u>Description</u>	<u>Duration</u>	<u>p1</u>	<u>p End</u>
INITIAL FLOW	30.00	159.00	341.00
INITIAL SHUT-IN	63.00		1490.00
FINAL FLOW	55.00	414.00	697.00
FINAL SHUT-IN	90.00		1487.00

FINAL HYDROSTATIC PRESSURE: 2335.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 1/12/93	TICKET	: 18953
CUSTOMER	: RAYDON EXPLORATION, INC.	LEASE	: MOLITOR
WELL	: 1-25	TEST:	1
ELEVATION:	2275 KB	GEOLOGIST:	BEN LANDES
SECTION	: 25	FORMATION:	MISSISSIPPI
RANGE	: 21W	TOWNSHIP	: 26S
GAUGE SN#:	10270	STATE	: KS
		CLOCK	: 12
		COUNTY:	FORD
		RANGE	: 4150

INITIAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	159.00	159.00
5.00	159.00	0.00
10.00	187.00	28.00
15.00	229.00	42.00
20.00	265.00	36.00
25.00	301.00	36.00
30.00	341.00	40.00

INITIAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	1151.00	1151.00	0.00
6.00	1250.00	99.00	0.00
9.00	1309.00	59.00	0.00
12.00	1343.00	34.00	0.00
15.00	1368.00	25.00	0.00
18.00	1389.00	21.00	0.00
21.00	1405.00	16.00	0.00
24.00	1418.00	13.00	0.00
27.00	1431.00	13.00	0.00
30.00	1439.00	8.00	0.00
33.00	1446.00	7.00	0.00
36.00	1452.00	6.00	0.00
39.00	1458.00	6.00	0.00
42.00	1463.00	5.00	0.00
45.00	1466.00	3.00	0.00
48.00	1471.00	5.00	0.00
51.00	1477.00	6.00	0.00
54.00	1480.00	3.00	0.00
57.00	1483.00	3.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
60.00	1485.00	2.00	0.00
63.00	1490.00	5.00	0.00

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	414.00	414.00
5.00	418.00	4.00
10.00	441.00	23.00
15.00	479.00	38.00
20.00	510.00	31.00
25.00	529.00	19.00
30.00	566.00	37.00
35.00	593.00	27.00
40.00	615.00	22.00
45.00	642.00	27.00
50.00	667.00	25.00
55.00	697.00	30.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	1184.00	1184.00	0.00
6.00	1270.00	86.00	0.00
9.00	1309.00	39.00	0.00
12.00	1338.00	29.00	0.00
15.00	1358.00	20.00	0.00
18.00	1373.00	15.00	0.00
21.00	1382.00	9.00	0.00
24.00	1395.00	13.00	0.00
27.00	1406.00	11.00	0.00
30.00	1413.00	7.00	0.00
33.00	1421.00	8.00	0.00
36.00	1426.00	5.00	0.00
39.00	1436.00	10.00	0.00
42.00	1439.00	3.00	0.00
45.00	1445.00	6.00	0.00
48.00	1450.00	5.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
51.00	1454.00	4.00	0.00
54.00	1460.00	6.00	0.00
57.00	1463.00	3.00	0.00
60.00	1465.00	2.00	0.00
63.00	1468.00	3.00	0.00
66.00	1471.00	3.00	0.00
69.00	1474.00	3.00	0.00
72.00	1476.00	2.00	0.00
75.00	1478.00	2.00	0.00
78.00	1480.00	2.00	0.00
81.00	1482.00	2.00	0.00
84.00	1484.00	2.00	0.00
87.00	1486.00	2.00	0.00
90.00	1487.00	1.00	0.00