Company Robinson Oil Company — Lease & Well No. Bouse Gas Unit #1

Elevation 1373 Kelly Bushing — Formation Stalnaker — Effective Pay - Ft. — Ticket No. 10498

Date 5/22/81 — Sec. 23 — Twp. 34S — Range 7W — County Harper — State Kansas

Test Approved by Ray Goodin — Western Representative Rod Tritt-Louis Spencer

Formation Test No. 1 — Interval Tested from 3795 ft. to 3808 ft. — Total Depth 3808 ft.

Packer Depth 3790 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Packer Depth 3795 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3399 ft. — Recorder Number 2066 — Cap. 4150

Bottom Recorder Depth (Outside) 3802 ft. — Recorder Number 4332 — Cap. 4200

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

Drilling Contractor Sweetman Drilling — Drill Collar Length 280 — I. D. 2 1/4 in.

Mud Type - — Viscosity 40 — Weight Pipe Length - — I. D. - in.

Weight 9.3 — Water Loss 5.0 cc. — Drill Pipe Length 3505 — I. D. 3.8 in.

Chlorides N/C P.P.M. — Test Tool Length 20 ft. — Tool Size 5 1/2 OD in.

Jars: Make No — Serial Number No — Anchor Length 13 ft. — Size 5 1/2 OD in.

Did Well Flow? No — Reversed Out =- — 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 throughout test. No gas to surface

Recovered 390 ft. of mud cut water Chlorides 104,000 ppm

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 3:20 A.M. P.M. — Time Started Off Bottom 6:20 A.M. P.M. — Maximum Temperature 134°

Initial Hydrostatic Pressure			(A)	2083	P.S.I.	
Initial Flow Period	Minutes 25		(B)	105	P.S.I. to (C)	107 P.S.I.
Initial Closed In Period	Minutes 48		(D)	1531	P.S.I.	
Final Flow Period	Minutes 45		(E)	191	P.S.I. to (F)	182 P.S.I.
Final Closed In Period	Minutes 63		(G)	1541	P.S.I.	
Final Hydrostatic Pressure			(H)	1956	P.S.I.	

WESTERN TESTING CO., INC.

Pressure Data

Date 5/22/81 Test Ticket No. 10498

Recorder No. 2606 Capacity 4150 Location 3399 Ft.

Clock No. - Elevation 1373 Kelly Bushing Well Temperature 134 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2083 P.S.I.		Open Tool	3:20A M	
B	First Initial Flow Pressure	105 P.S.I.		First Flow Pressure	30 Mins.	25 Mins.
C	First Final Flow Pressure	107 P.S.I.		Initial Closed-in Pressure	45 Mins.	48 Mins.
D	Initial Closed-in Pressure	1531 P.S.I.		Second Flow Pressure	45 Mins.	45 Mins.
E	Second Initial Flow Pressure	191 P.S.I.		Final Closed-in Pressure	60 Mins.	63 Mins.
F	Second Final Flow Pressure	182 P.S.I.				
G	Final Closed-in Pressure	1541 P.S.I.				
H	Final Hydrostatic Mud	1956 P.S.I.				

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1 0	105
P 2 5	48
P 3 10	53
P 4 15	64
P 5 20	79
P 6 25	107
P 7	
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 16 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	107
3	850
6	1116
9	1246
12	1317
15	1373
18	1406
21	1433
24	1454
27	1470
30	1483
33	1497
36	1506
39	1515
42	1523
45	1527
48	1531

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

Point Minutes	Press.
0	191
5	171
10	166
L5	164
20	166
25	168
30	170
35	175
40	179
45	182

Final Shut-In
Breakdown: 21 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	182
3	981
6	1180
9	1273
12	1327
15	1369
18	1401
21	1423
24	1444
27	1460
30	1472
33	1480
36	1490
39	1500
42	1510
45	1514
48	1520
51	1525
54	1530
57	1533
60	1536
63	1541

2606 DST #1

TKT # 10498

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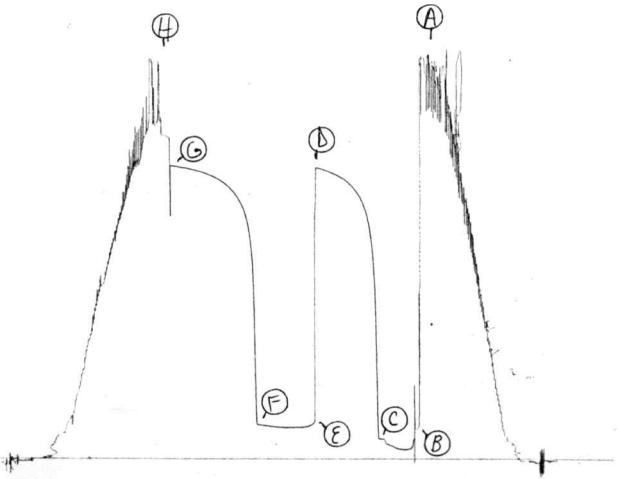

Company Robinson Oil Company — Lease & Well No. Bouse Gas Unit #1

Elevation 1373 Kelly Bushing ~~Formation~~ Mississippi — Effective Pay - Ft. — Ticket No. 10519

Date 5/24/81 — Sec. 23 — Twp. 34S — Range 7W — County Harper — State Kansas

Test Approved by Dale M. Robinson — Western Representative Les Holtz

Formation Test No. 2 — Interval Tested from 4666 ft. to 4679 ft. — Total Depth 4679 ft.

Packer Depth 4661 ft. — Size 6 5/8 in. — Packer Depth - ft. — Size - in.

Packer Depth 4666 ft. — Size 6 5/8 in. — Packer Depth - ft. — Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4668 ft. — Recorder Number 1051 — Cap. 4250

Bottom Recorder Depth (Outside) 4671 ft. — Recorder Number 13267 — Cap. 4050

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

Drilling Contractor Sweetman Drilling — Drill Collar Length 280 — I. D. 2.26 in.

Mud Type - — Viscosity 60 — Weight Pipe Length - — I. D. - in.

Weight 9.2 — Water Loss 5.0 cc. — Drill Pipe Length 4366 — I. D. 3.8 in.

Chlorides - P.P.M. — Test Tool Length 20 ft. — Tool Size 5½ in.

Jars: Make No — Serial Number - — Anchor Length 13 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 4½XH in.

Blow: Strong throughout test. Gas to surface in thirteen minutes. See attached sheet for gas measurements.

Recovered 1 ft. of mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Read outside recorder

Time Set Packer(s) 12:30 ~~A.M.~~ P.M. — Time Started Off Bottom 4:45 ~~A.M.~~ P.M. — Maximum Temperature 140°

Initial Hydrostatic Pressure			(A)	2368	P.S.I.	
Initial Flow Period	Minutes 45	(B)	73	P.S.I. to (C)	35	P.S.I.
Initial Closed In Period	Minutes 54	(D)	1836	P.S.I.		
Final Flow Period	Minutes 60	(E)	77	P.S.I. to (F)	30	P.S.I.
Final Closed In Period	Minutes 87	(G)	1818	P.S.I.		
Final Hydrostatic Pressure		(H)	2337	P.S.I.		

WTC-1

GAS FLOW REPORT

Date 5/24/81 Ticket 10519 Company Robinson Oil Company

Well Name and No. Bouse Gas Unit #1 Dst No. 2 Interval Tested 4666'-4679'

County Harper State Kansas Sec. 23 Twp. 34S Rg. 7W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
			PRE FLOW			
Gas to surface in thirteen minutes.						
Tool open	20 min.	6 PSIG	1/4" orifice			22,900 CFPD
	25 min.	8 PSIG	1/4" orifice			27,000 CFPD
	30 min.	10 PSIG	1/4" orifice			30,800 CFPD
	35 min.	12 PSIG	1/4" orifice			34,000 CFPD
	40 min.	13 PSIG	1/4" orifice			35,900 CFPD
	45 min.	14 PSIG	1/4" orifice			37,600 CFPD
			SECOND FLOW			
Tool Open	10 min.	12 PSIG	1/4" orifice			34,000 CFPD
	20 min.	17 PSIG	1/4" orifice			42,400 CFPD
	30 min.	19 PSIG	1/4" orifice			45,500 CFPD
	40 min.	20 PSIG	1/4" orifice			47,100 CFPD
	50 min.	20 PSIG	1/4" orifice			47,100 CFPD
	60 min.	20 PSIG	1/4" orifice			47,100 CFPD

GAS BOTTLE

Serial No. WTC #107 Date Bottle Filled 5/24/81 Date to be Invoiced 5/24/81

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 1½% 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 Robinson Oil Company

Authorized by Dale M. Robinson

FORM WTC 6

WESTERN TESTING CO., INC.
Pressure Data

Date 5/24/81 Test Ticket No. 10519

Recorder No. 13267 Capacity 4050 Location 4671 Ft.

Clock No. - Elevation 1373 Kelly Bushing Well Temperature 140 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2361 P.S.I.	Open Tool	12:30P M	
B First Initial Flow Pressure	73 P.S.I.	First Flow Pressure	45 Mins.	45 Mins.
C First Final Flow Pressure	35 P.S.I.	Initial Closed-in Pressure	60 Mins.	54 Mins.
D Initial Closed-in Pressure	1836 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	77 P.S.I.	Final Closed-in Pressure	90 Mins.	87 Mins.
F Second Final Flow Pressure	30 P.S.I.			
G Final Closed-in Pressure	1818 P.S.I.			
H Final Hydrostatic Mud	2337 P.S.I.			

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1 0	73
P 2 5	48
P 3 10	36
P 4 15	30
P 5 20	29
P 6 25	29
P 7 30	28
P 8 35	30
P 9 40	32
P10 45	35
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

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

Point Minutes	Press.
0	35
3	1192
6	1498
9	1587
12	1641
15	1678
18	1703
21	1724
24	1741
27	1754
30	1768
33	1780
36	1790
39	1800
42	1810
45	1817
48	1824
51	1832
54	1836

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

Point Minutes	Press.
0	77
5	51
10	41
15	32
20	29
25	29
30	29
35	29
40	29
45	30
50	30
55	30
60	30

Final Shut-In
Breakdown: 29 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	30
3	791
6	1242
9	1400
12	1480
15	1531
18	1569
21	1603
24	1633
27	1653
30	1669
33	1688
36	1700
39	1714
42	1724
45	1736
48	1745
51	1755
54	1761
57	1767
60	1773

continued next page

WESTERN TESTING CO., INC.

Pressure Data

Date 5/24/81 Test Ticket No. 10519

Recorder No. 13267 Capacity 4050 Location 4671 Ft.

Clock No. - Elevation 1373 Kelly Bushing Well Temperature 140 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2361 P.S.I.		Open Tool	12:30P M	
B	First Initial Flow Pressure	73 P.S.I.		First Flow Pressure	45 Mins.	45 Mins.
C	First Final Flow Pressure	35 P.S.I.		Initial Closed-in Pressure	60 Mins.	54 Mins.
D	Initial Closed-in Pressure	1836 P.S.I.		Second Flow Pressure	60 Mins.	60 Mins.
E	Second Initial Flow Pressure	77 P.S.I.		Final Closed-in Pressure	90 Mins.	87 Mins.
F	Second Final Flow Pressure	30 P.S.I.				
G	Final Closed-in Pressure	1818 P.S.I.				
H	Final Hydrostatic Mud	2337 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: 29 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						63	1780
P 2						66	1786
P 3						69	1792
P 4						72	1797
P 5						75	1803
P 6						78	1807
P 7						81	1811
P 8						84	1814
P 9						87	1818
P10							
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

IKT #10519

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DST #2