



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No 20088

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

Elevation 1862 GL Formation Cong. Viola - Simpson Eff. Pay Ft.

District GREAT Bend Date 10-31-93 Customer Order No.

COMPANY NAME Morrison/Dixon Oil Operations, Inc.

ADDRESS 155 N. MARKET, Suite # 950 WICHITA, KS 67202

LEASE AND WELL NO. Teichman #1 COUNTY Stafford STATE KS Sec. 12 Twp. 23 Rge. 13

Mail Invoice To SAME Co. Name #1 Teichman Address No. Copies Requested 9

Mail Charts To SAME #1 Teichman Address No. Copies Requested 9

Formation Test No. 5 Interval Tested From 3640 ft. to 3835 ft. Total Depth 3835 ft.

Packer Depth 3635 ft. Size 650 in. Packer Depth - ft. Size - in.

Packer Depth 3640 ft. Size 678 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3640 ft. Recorder Number 10270 Cap. 4150

Bottom Recorder Depth (Outside) 3647 ft. Recorder Number 13550 Cap. 4125

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

Drilling Contractor DAL Energy rig Drill Collar Length - I. D. - in.

Mud Type Chemical Viscosity 39 Weight Pipe Length - I. D. - in.

Weight 9.6 Water Loss 16 cc. Drill Pipe Length 3618 I. D. 3.8 in.

Chlorides 14000 P.P.M. Test Tool Length 22 ft. Tool Size 5/2 in.

Jars: Make - Serial Number - Anchor Length 195 ft. Size 5/2 in.

Did Well Flow? - Reversed Out - Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7/8 in. Tool Joint Size 4 1/2 XH in.

Blow: IF - WEAK Blow throughout 1/2" to 1 3/4" Blow

FF - WEAK SURFACE Blow throughout

Recovered 30 ft. of Mud

Recovered - ft. of

Recovered - ft. of

Recovered - ft. of

Recovered - ft. of

Chlorides - P.P.M. Sample Jars used 1 Remarks: Crown Testing ran first 4 tests

Time On Location 10:00 A.M. Time Pick Up Tool 12:30 P.M. Time Off Location - A.M. P.M.

Time Set Packer(s) 1:55 A.M. P.M. Time Started Off Bottom 3:55 A.M. P.M. Maximum Temperature 107

Initial Hydrostatic Pressure (A) 1807 P.S.I.

Initial Flow Period (B) 30 Minutes 52 P.S.I. to (C) 52 P.S.I.

Initial Closed In Period (D) 30 Minutes 93 P.S.I.

Final Flow Period (E) 30 Minutes 52 P.S.I. to (F) 52 P.S.I.

Final Closed In Period (G) 30 Minutes 72 P.S.I.

Final Hydrostatic Pressure (H) 1796 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 Thomas M. Williams Signature of Customer or his authorized representative

Western Representative Ray Schwager Thank you

FIELD INVOICE

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

WESTERN TESTING CO., INC.

Pressure Data

Date 10 31-93 Test Ticket No. 10220  
 Recorder No. 10220 Capacity \_\_\_\_\_ Location \_\_\_\_\_ Ft. \_\_\_\_\_

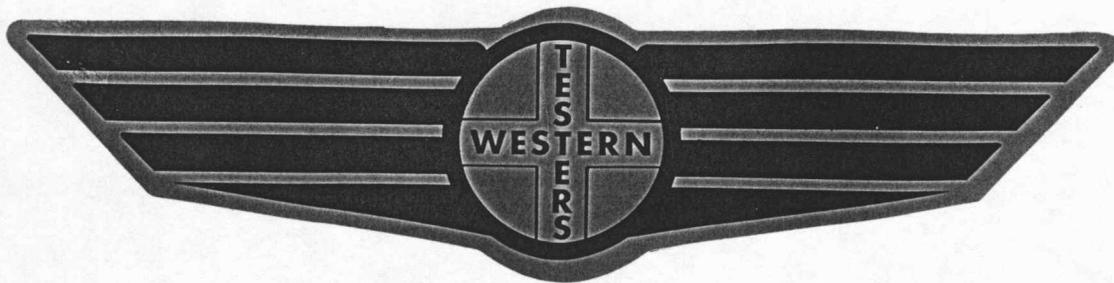
Clock No. \_\_\_\_\_ Elevation \_\_\_\_\_ Well Temperature \_\_\_\_\_ °F

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1827</u> P.S.I.			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	<u>1811</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>55</u>	0	<u>58</u>	0	<u>62</u>	0	<u>62</u>
P 2 5		3	<u>63</u>	5	<u>67</u>	3	<u>67</u>
P 3 10		6	<u>68</u>	10	<u>70</u>	6	<u>65</u>
P 4 15		9	<u>70</u>	15	<u>68</u>	9	<u>66</u>
P 5 20	<u>55</u>	12	<u>75</u>	20	<u>68</u>	12	<u>67</u>
P 6 25	<u>56</u>	15	<u>81</u>	25	<u>68</u>	15	<u>68</u>
P 7 30	<u>58</u>	18	<u>88</u>	30	<u>68</u>	18	<u>70</u>
P 8 35		21	<u>97</u>	35		21	<u>72</u>
P 9 40		24	<u>102</u>	40		24	<u>74</u>
P10 45		27		45		27	<u>76</u>
P11 50		30		50		30	<u>78</u>
P12 55		33		55		33	
P13 60		36		60		36	
P14 65		39		65		39	
P15 70		42		70		42	
P16 75		45		75		45	
P17 80		48		80		48	
P18 85		51		85		51	
P19 90		54		90		54	
P20 95		57		95		57	
100		60		100		60	

# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 80 - 688 - 7021

DST REPORT

GENERAL INFORMATION

DATE : 10/31/93	TICKET : 20088
CUSTOMER : MORRISON/DIXON OIL OPERA.	LEASE : TEICHMAN
WELL : #1                      TEST: 5	GEOLOGIST: WILLIAMS
ELEVATION: 1862 GL	FORMATION: CONGL-VIOLA-SIMPSON
SECTION : 12	TOWNSHIP : 23S
RANGE : 13W                      COUNTY: STAFFORD	STATE : KS
GAUGE SN#: 10270                      RANGE : 4150	CLOCK : 12 HR.

WELL INFORMATION

PERFORATION INTERVAL FROM: 3640.00 ft	TO: 3835.00 ft	TVD: 3835.0 ft
DEPTH OF SELECTIVE ZONE:		TEST TYPE: OIL
DEPTH OF RECORDERS: 3644.0 ft	3647.0 ft	
TEMPERATURE: 107.0		

DRILL COLLAR LENGTH: 0.0 ft	I.D.:	0.000 in
WEIGHT PIPE LENGTH : 0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH : 3618.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH : 22.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH : 195.0 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: 3635.0 ft	SIZE:	6.630 in
PACKER DEPTH: 3640.0 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	VISCOSITY : 39.00 cp
MUD TYPE : CHEMICAL	WATER LOSS: 16.000 cc
WEIGHT : 9.600 ppg	
CHLORIDES : 14000 ppm	
JARS-MAKE : NO	SERIAL NUMBER:
DID WELL FLOW?: NO	REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK BLOW THROUGHOUT - 1/2 TO 1 3/4 INCH BLOW. FINAL FLOW PERIOD WEAK SURFACE BLOW THROUGHOUT.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
30.0	0.0	0.0	0.0	100.0	MUD

RATE INFORMATION

OIL VOLUME:	0.0000	STB	TOTAL FLOW TIME:	60.0000	min.
GAS VOLUME:	0.0000	SCF	AVERAGE OIL RATE:	0.0000	STB/D
MUD VOLUME:	0.4208	STB	AVERAGE WATER RATE:	0.0000	STB/D
WATER VOLUME:	0.0000	STB			
TOTAL FLUID :	0.4208	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1807.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	52.00	52.00
INITIAL SHUT-IN	30.00		93.00
FINAL FLOW	30.00	52.00	52.00
FINAL SHUT-IN	30.00		72.00

FINAL HYDROSTATIC PRESSURE: 1796.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1827.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	55.00	58.00
INITIAL SHUT-IN	24.00		103.00
FINAL FLOW	30.00	62.00	63.00
FINAL SHUT-IN	30.00		78.00

FINAL HYDROSTATIC PRESSURE: 1811.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 10/31/93	TICKET : 20088
CUSTOMER : MORRISON/DIXON OIL OPERA.	LEASE : TEICHMAN
WELL : #1	TEST: 5
ELEVATION: 1862 GL	GEOLOGIST: WILLIAMS
SECTION : 12	FORMATION: CONGL-VIOLA-SIMPSON
RANGE : 13W	TOWNSHIP : 23S
COUNTY: STAFFORD	STATE : KS
Gauge SN#: 10270	RANGE : 4150
	CLOCK : 12 HR.

INITIAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	55.00	55.00
5.00	55.00	0.00
10.00	55.00	0.00
15.00	55.00	0.00
20.00	55.00	0.00
25.00	56.00	1.00
30.00	58.00	2.00

INITIAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	63.00	63.00	11.00
6.00	68.00	5.00	6.00
9.00	70.00	2.00	4.33
12.00	75.00	5.00	3.50
15.00	81.00	6.00	3.00
18.00	88.00	7.00	2.67
21.00	97.00	9.00	2.43
24.00	103.00	6.00	2.25

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	62.00	62.00
5.00	62.00	0.00
10.00	62.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
15.00	62.00	0.00
20.00	63.00	1.00
25.00	63.00	0.00
30.00	63.00	0.00

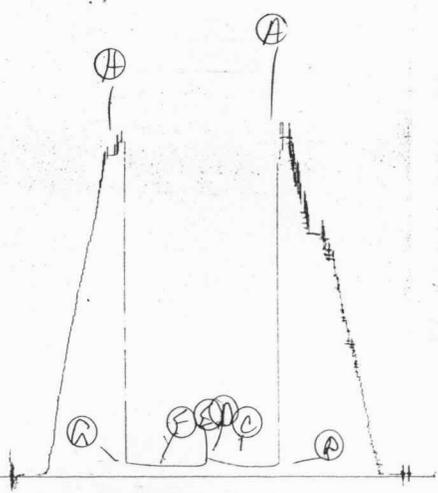
FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	64.00	64.00	16.00
6.00	65.00	1.00	8.50
9.00	66.00	1.00	6.00
12.00	67.00	1.00	4.75
15.00	68.00	1.00	4.00
18.00	70.00	2.00	3.50
21.00	72.00	2.00	3.14
24.00	74.00	2.00	2.88
27.00	76.00	2.00	2.67
30.00	78.00	2.00	2.50

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