



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

OK
No 18916

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

Elevation 1248 Kb Formation Mesa Eff. Pay _____ Ft.

District Augusta Date 5-3-83 Customer Order No. _____

COMPANY NAME Zenith Drilling Corp

ADDRESS Suite 505 Fourth Financial Center Wichita, KS 67202

LEASE AND WELL NO. Becker #4 COUNTY Sumner STATE Ks Sec. 30 Twp. 31 Rge. 1W

Mail Invoice To #4 BECKER No. Copies Requested 1

Co. Name _____ Address _____ No. Copies Requested 5

Mail Charts To _____ Address _____ No. Copies Requested _____

Formation Test No. 1 Interval Tested From 3621 ft. to 3675 ft. Total Depth 3675 ft.

Packer Depth 3621 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 3616 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3626 ft. Recorder Number 2605 Cap. 4150

Bottom Recorder Depth (Outside) 3630 ft. Recorder Number 1049 Cap. 4250

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

Drilling Contractor Zenith #4 Drill Collar Length 360 I. D. _____ in.

Mud Type Chem Viscosity 40 Weight Pipe Length _____ I. D. _____ in.

Weight 9.3 Water Loss 9.6 cc. Drill Pipe Length 3231 I. D. _____ in.

Chlorides 3500 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.

Jars: Make NU Serial Number _____ Anchor Length 54 ft. Size 5 1/2 in.

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

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

Blow: Weak blow building to good first flow, good blow throughout

second flow see attached sheet for gas measurements.

Recovered 38 ft. of CLEAN GASSY OIL = .54 BBLs 100% OIL

Recovered 545 ft. of GASSY MUDDY OIL = 4.17 BBLs (78% OIL) (20% MUD) (2% W)

Recovered _____ ft. of _____ = _____ BBLs

Recovered 583 ft. of TOTAL FLUID = 4.71 BBLs

Recovered _____ ft. of _____

Remarks: GAS TO SURFACE IN 50 MIN. See OH gas sheet # 3456

clock stopped @ 6:05

Time On Location 5:00 A.M. Time Pick Up Tool 8:00 A.M. Time Off Location _____ P.M.

Time Set Packer(s) 10:00 A.M. Time Started Off Bottom 2:00 A.M. Maximum Temperature 118° P.M.

Initial Hydrostatic Pressure _____ (A) 1796 P.S.I.

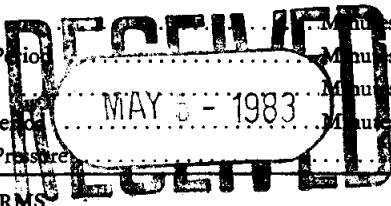
Initial Flow Period _____ (B) 10.5 P.S.I. to (C) 10.5 P.S.I.

Initial Closed In Period _____ (D) 1081 P.S.I.

Final Flow Period _____ (E) 143 P.S.I. to (F) 149 P.S.I.

Final Closed In Period _____ (G) 1081 P.S.I. ← 1081

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 Gerald B. Becker
Signature of Customer or his authorized representative

Western Representative Kenny Kirkendall

FIELD INVOICE

Open Hole Test	\$ 550.00
Misrun	\$
Straddle Test	\$
Jars	\$
Selective Zone	\$
Safety Joint	\$ 65.00
Standby	\$
Evaluation	\$
Extra Packer	\$
Circ. Sub.	\$
Mileage	\$
Fluid Sampler	\$
Extra Charts	\$
Insurance	\$
Telecopier	\$
TOTAL	\$ 615.00



Nº 3456

GAS FLOW REPORT

Date 5-3 Ticket 18916 Company Zenith Pump Co
 Well Name and No. Becker #4 Dst No. 1 Interval Tested 3621-3675
 County Sumner State Ks Sec. 30 Twp. 31 Rg. 1W

Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	Size of Orifice	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	Description of Flow
PRE FLOW					
<u>60</u>	<u>20</u>	<u>LOW</u>	<u>1/2</u>		<u>28,000 CFPd</u>
<u>70</u>	<u>4</u>	<u>"</u>	<u>1/2</u>		<u>18,800</u>
<u>80</u>	<u>7</u>	<u>"</u>	<u>"</u>		<u># 18,800</u>
<u>90</u>	<u>8</u>				<u>17,200</u>

SECOND FLOW					
<u>GR</u>					
<u>NO Sample taken</u>					

GAS BOTTLE

Serial No. _____ Date Bottle Filled _____ Date to be Invoiced _____

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 1 1/2% 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 Zenith

Authorized by _____

WESTERN TESTING CO., INC.

Pressure Data

Date 5-3 Recorder No. 1049 Capacity 4250 Test Ticket No. 18916
 Clock No. --- Elevation 1248 KB Location 3630 Well Temperature 118

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1816</u> P.S.I.		<u>10:00 A</u>	
B First Initial Flow Pressure	<u>68</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Min.
C First Final Flow Pressure	<u>140</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>69</u> Min.
D Initial Closed-in Pressure	<u>1722</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Min.
E Second Initial Flow Pressure	<u>131</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>90</u> Min.
F Second Final Flow Pressure	<u>198</u> P.S.I.			
G Final Closed-in Pressure	<u>1700</u> P.S.I.			
H Final Hydrostatic Mud	<u>1807</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>7</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>24</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>13</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>31</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	<u>68</u>	0	<u>140</u>	0	<u>131</u>	0	<u>198</u>
P 2	<u>74</u>	3	<u>358</u>	5	<u>135</u>	3	<u>407</u>
P 3	<u>102</u>	6	<u>604</u>	10	<u>159</u>	6	<u>847</u>
P 4	<u>109</u>	9	<u>1145</u>	15	<u>163</u>	9	<u>1449</u>
P 5	<u>130</u>	12	<u>1587</u>	20	<u>163</u>	12	<u>1563</u>
P 6	<u>137</u>	15	<u>1639</u>	25	<u>167</u>	15	<u>1597</u>
P 7	<u>140</u>	18	<u>1661</u>	30	<u>167</u>	18	<u>1614</u>
P 8		21	<u>1674</u>	35	<u>168</u>	21	<u>1628</u>
P 9		24	<u>1682</u>	40	<u>176</u>	24	<u>1640</u>
P 10		27	<u>1690</u>	45	<u>181</u>	27	<u>1648</u>
P 11		30	<u>1694</u>	50	<u>187</u>	30	<u>1655</u>
P 12		33	<u>1698</u>	55	<u>196</u>	33	<u>1659</u>
P 13		36	<u>1702</u>	60	<u>198</u>	36	<u>1663</u>
P 14		39	<u>1705</u>	65		39	<u>1667</u>
P 15		42	<u>1708</u>	70		42	<u>1671</u>
P 16		45	<u>1711</u>	75		45	<u>1675</u>
P 17		48	<u>1713</u>	80		48	<u>1678</u>
P 18		51	<u>1715</u>	85		51	<u>1680</u>
P 19		54	<u>1717</u>	90		54	<u>1682</u>
P 20		57	<u>1719</u>			57	<u>1684</u>
		60	<u>1720</u>			60	<u>1686</u>

WESTERN TESTING CO., INC.
Pressure Data

Date _____

Test Ticket No. 18916

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.			

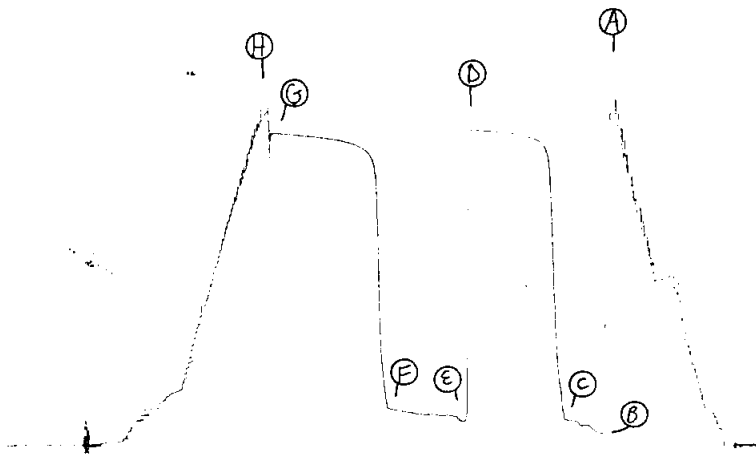
PRESSURE BREAKDOWN

First Flow Pressure Breakdown: _____ Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: _____ Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: _____ Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: _____ Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1		63	1721			63	1688
P 2		66	1722			66	1690
P 3		69	1722			69	1692
P 4		72				72	1694
P 5		75				75	1696
P 6		78				78	1697
P 7		81				81	1698
P 8		84				84	1699
P 9		87				87	1700
P10		90				90	1700
P11		93				93	
P12		96				96	
P13		99				99	
P14		102				102	
P15		105				105	
P16		108				108	
P17		111				111	
P18		114				114	
P19		117				117	
P20		120				120	

TKT # 18916

0

1049
DST #1



WESTERN TESTING COMPANY
SUBSURFACE PRESSURE SURVEY

DATE: 5/3/83 TICKET #18916
 CUSTOMER: ZENITH DRILLING LEASE: BECKER
 WELL: 4 TEST: 1 GEOLOGIST: GERALD BECKER
 ELEVATION (KB): 1248 FORMATION: MISSISSIPPIAN
 SECTION: 30 TOWNSHIP: 31S
 RANGE: 1W COUNTY: SUMNER STATE: KANSAS
 GAUGE SN #1049 RANGE: 4250 CLOCK: 12

INTERVAL TEST FROM: 3621 FT TO: 3675 FT TOTAL DEPTH: 3675 FT
 DEPTH OF SELECTIVE ZONE: FT
 PACKER DEPTH: 3621 FT SIZE: 6 3/4 IN PACKER DEPTH: 3616 FT SIZE: 6 3/4 IN
 PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: ZENITH DRLG
 MUD TYPE: CHEMICAL VISCOSITY: 40
 WEIGHT: 9.3 WATER LOSS (CC): 9.6
 CHLORIDES (P.P.M.): 3500
 JARS - MAKE: SERIAL NUMBER:
 DID WELL FLOW? GAS REVERSED OUT? NO
 DRILL COLLAR LENGTH: 360 FT I.D.: IN
 WEIGHT PIPE LENGTH: FT I.D.: IN
 DRILL PIPE LENGTH: 3231 FT I.D.: IN
 TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 IN
 ANCHOR LENGTH: 54 FT SIZE: 5 1/2 IN
 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: INITIAL FLOW PERIOD WEAK BLOW
 BUILDING TO GOOD BLOW.
 FINAL FLOW PERIOD GOOD BLOW.
 SEE ATTACHED SHEET FOR GAS MEASUREMENTS.

RECOVERED: 38 FT OF: CLEAN GASSY OIL = .54 BBLS 100% OIL.
 RECOVERED: 545 FT OF: GASSY MUDDY OIL = 4.17 BBLS
 RECOVERED: FT OF: 78% OIL; 20% MUD; 2% WATER.
 RECOVERED: FT OF: = 4.71 BBLS
 RECOVERED: FT OF:
 RECOVERED: FT OF:
 RECOVERED: FT OF:
 RECOVERED: FT OF:
 RECOVERED: FT OF:

REMARKS: GAS TO SURFACE IN 50 MINUTES.
 CLOCK STOPPED ON RECORDER 2605.
 READ RECORDER 1049.

TIME SET PACKER(S): 10:00 AM TIME STARTED OFF BOTTOM: 2:00 AM
 WELL TEMPERATURE: 118 °F
 INITIAL HYDROSTATIC PRESSURE: (A) 1816 PSI
 INITIAL FLOW PERIOD MIN: 30 (B) 68 PSI TO (C) 140 PSI
 INITIAL CLOSED IN PERIOD MIN: 69 (D) 1722 PSI
 FINAL FLOW PERIOD MIN: 60 (E) 131 PSI TO (F) 198 PSI
 FINAL CLOSED IN PERIOD MIN: 90 (G) 1700 PSI
 FINAL HYDROSTATIC PRESSURE (H) 1807 PSI

WESTERN TESTING COMPANY
GAS FLOW REPORT

DATE: 5/3/83
CUSTOMER: ZENITH DRILLING
WELL: 4
ELEVATION (KB): 1248
SECTION: 30
RANGE: 1W
GAUGE SN #1049

TEST: 1
FORMATION: MISSISSIPPIAN
TOWNSHIP: 31S
COUNTY: SUMNER
RANGE: 4250

TICKET #18916
LEASE: BECKER
GEOLOGIST: GERALD BECKER
STATE: KANSAS
CLOCK: 12

TIME GAUGE (MIN)	TESTER TYPE	ORIFICE SIZE	PRESSURE (PSI)	FLOW DESCRIPTION
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PRE FLOW

60	MERLA	1/2	20*QFWTR	28000 CFPD
70		1/2	9*OF WTR	18800 CFPD
80		1/2	9*OF WTR	18800 CFPD
90		1/2	8*OF WTR	17200 CFPD

SECOND FLOW

GAS BOTTLE SN #:
DATE BOTTLE FILLED:
DATE TO BE INVOICED: