

15-081-21293

TRILOBITE TESTING L.L.C.

24-27s-34w

OPERATOR : OXY USA INC.

DATE 3-24-00

WELL NAME: Ward D-1

KB 0.00 ft

TICKET NO: 12472 DST #1

LOCATION : 24-27s-34w Haskell co KS

GR 0.00 ft

FORMATION: Toronto

INTERVAL : 3982.00 To 3990.00 ft

TD 3990.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	3026	3026				PF Fr. 0013 to 0043 hr
SI 60 Range(Psi)	4995.0	4995.0	0.0	0.0	0.0	IS Fr. 0043 to 0143 hr
SF 0 Clock(hrs)	elect	elect				SF Fr. 0143 to 0243 hr
FS 0 Depth(ft)	3988.0	3988.0	0.0	0.0	0.0	FS Fr. 0243 to 0443 hr

	Field	1	2	3	4	
A. Init Hydro	1857.0	0.0	0.0	0.0	0.0	T STARTED 2145 hr
B. First Flow	33.0	0.0	0.0	0.0	0.0	T ON BOTM 0012 hr
B1. Final Flow	221.0	0.0	0.0	0.0	0.0	T OPEN 0013 hr
C. In Shut-in	1065.0	0.0	0.0	0.0	0.0	T PULLED 0230 hr
D. Init Flow	0.0	0.0	0.0	0.0	0.0	T OUT 0500 hr
E. Final Flow	0.0	0.0	0.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1841.0	0.0	0.0	0.0	0.0	Tool Wt. 1800.00 lbs
Inside/Outside	I	I				Wt Set On Packer 25000.00 lbs
						Wt Pulled Loose 160000.00 lbs
						Initial Str Wt 75000.00 lbs
						Unseated Str Wt 75000.00 lbs
						Bot Choke 0.78 in
						Hole Size 7.78 in
						D Col. ID 2.25 in
						D. Pipe ID 3.38 in
						D.C. Length 321.00 ft
						D.P. Length 3706.00 ft

RECOVERY

Tot Fluid 340.00 ft of 276.00 ft in DC and 64.00 ft in DP
 340.00 ft of Water
 0.00 ft of 100% water
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of

SALINITY 75000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:

Fair blow. Bottom of bucket in 13 minutes.

Initial Shut-In:

No blow back.

Torqued up (wall stuck) went ahead and pulled after first shut-in.

MUD DATA-----

Mud Type	Chemical
Weight	9.10 lb/cf
Vis.	31.00 S/L
W.L.	8.00 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	110.00 F
Hole Condition	
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Scott Bugbee
Co. Rep.	Tom Heflin
Contr.	Cheyenne
Rig #	12
Unit #	
Pump T.	

SAMPLES:

SENT TO:

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Ward D-1

LOCATION : 24-27s-34w Haskell co KS

TICKET No. 12472 D.S.T. No. 1 DATE 3-24-00

TOTAL TOOL TO BOTTOM OF TOP PACKERS 30

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 8

TOTAL TOOL 38

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY

D.C. ABOVE TOOLS.Stands3 Single Total 276

D.P. ABOVE TOOLS.Stands38 Single 2 Total 3706

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4020

TOTAL DEPTH 3090

TOTAL DRILL PIPE ABOVE K.B. 30

REMARKS:

Sampler Data

4000 ml water 100 %

Tourqued up wall stuck pulled tool after
initial shutin

RW .80 at 33 deg.

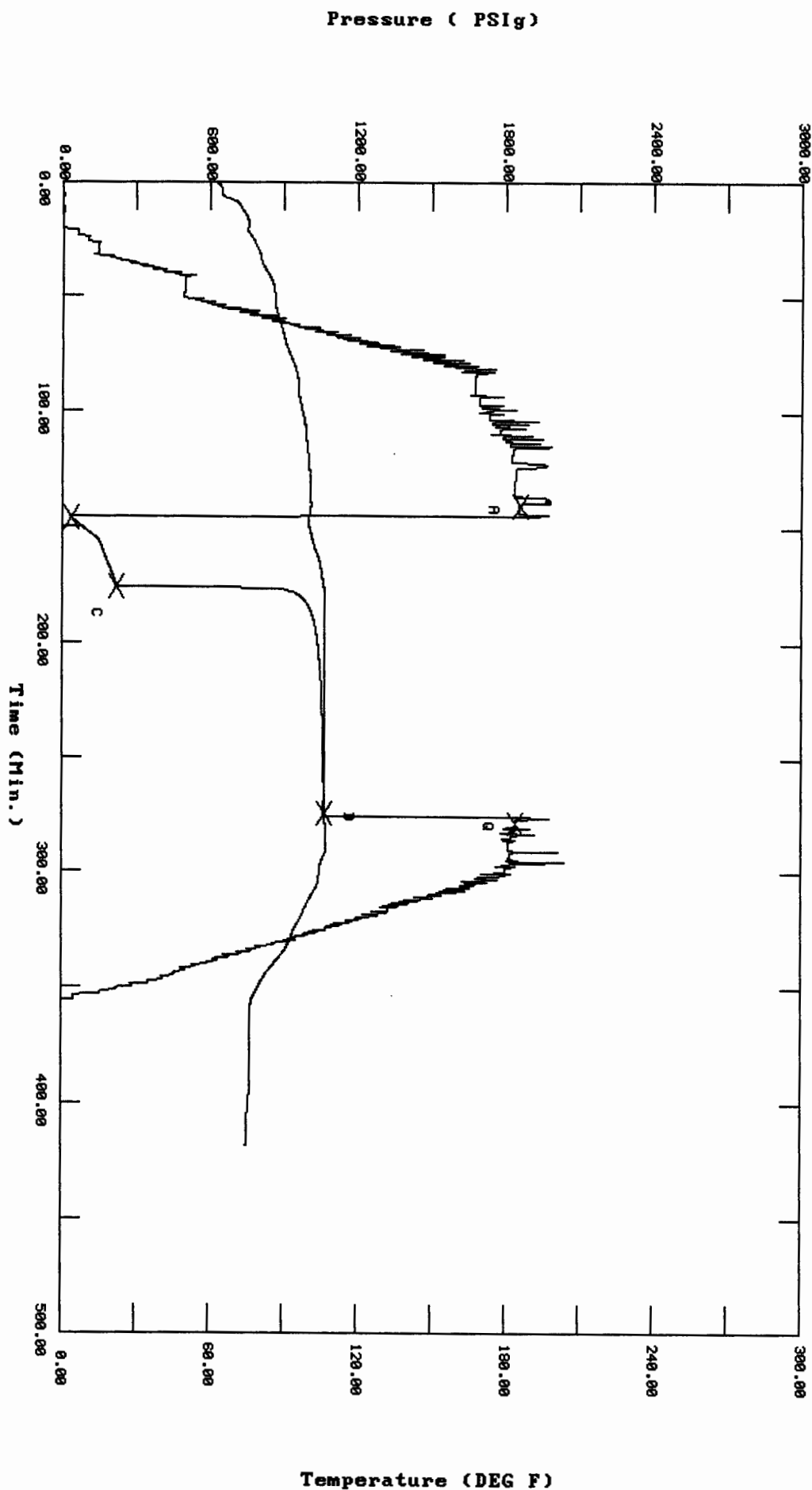
75000 chloridees

P.O. SUB top of tool	3952
C.O. SUB 1'	3953
S.I. TOOL 5'	3958
3'sampler	3961
HMV 5'	3966
JARS 5'	3971
SAFETY JOINT 2'	3979
PACKER 5'	3978
PACKER 5'	3982
DEPTH 3982 1'	3983
ANCHOR	
Alpine Rec.	3988
5'PU sub	3988
BULLNOSE T.D. 2'	3990

TEST HISTORY

12472 DST#1 Ward D-1 OXY USA INC.

Flag Points		
T(Min.)	P(PSig)	
A: 0.00	1857.21	
B: 0.00	33.13	
C: 38.00	221.30	
D: 98.50	1065.73	
E: 0.00	1841.41	



TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

N^o 12472

Well Name & No.	Ward D-1	Test No.	#1	Date	3-27-00
Company	Oxy USA INC.	Zone Tested	Toronto		
Address	P.O. Box 2425 Liberal KS, 67905	Elevation		KB	GL
Co. Rep / Geo.	Tom Heflon	Cont.	Cheyenne #12	Est. Ft. of Pay	Por. %
Location: Sec.	24	Twp.	27 S	Rge.	34 W
Co.	Haskell	State	KS		
No. of Copies		Distribution Sheet (Y, N)		Turnkey (Y, N)	
		Evaluation (Y, N)			

Interval Tested 3982 - 3990
Anchor Length 8'
Top Packer Depth 3977
Bottom Packer Depth 3982
Total Depth 3990
Mud Wt. 9.1 LCM 2 Vis. 31 WL 8
Blow Description 1st open fair blow B.O.B. in 13 min.
No blow back
Tongued up (wall stuck) went a head and pulled after 1st
shut in.

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
<u>340</u>		<u>276</u>	<u>64</u>
Rec. <u>340</u>	Feet Of <u>Water</u>	%gas	%oil
Rec.	Feet Of	%gas	%oil
Rec.	Feet Of	%gas	%oil
Rec.	Feet Of	%gas	%oil
Rec.	Feet Of	%gas	%oil

BHT _____ °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API
RW .80 @ 33 °F Chlorides 75,000 ppm Recovery Chlorides _____ ppm System

AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>1857</u>	PSI	<u>3026</u>	<u>8:00 P.M.</u>
(B) First Initial Flow Pressure	<u>33</u>	PSI	<u>3988</u>	<u>9:45 P.M.</u>
(C) First Final Flow Pressure	<u>221</u>	PSI		<u>12:13 A.M.</u>
(D) Initial Shut-In Pressure	<u>1065</u>	PSI		<u>2:30 A.M.</u>
(E) Second Initial Flow Pressure		PSI		<u>5:00 A.M.</u>
(F) Second Final Flow Pressure		PSI		<u>5:30 A.M.</u>
(G) Final Shut-in Pressure		PSI	<u>30</u>	Test <u>✓</u> <u>600</u> ^{OG}
(Q) Final Hydrostatic Mud	<u>1841</u>	PSI	<u>60</u>	Jars <u>✓</u> <u>200</u> ^{OG}

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Approved By Tom Heflon
Our Representative Scott Bungee

Final Flow _____ Safety Joint ✓ 50 ^{OG}
Final Shut-in _____ Straddle _____
Circ. Sub ✓ N/C ^{OG}
Sampler ✓ 200 ^{OG}
Extra Packer _____
Elec. Rec. ✓ 150 ^{OG}
Mileage _____
Other _____
TOTAL PRICE \$ 1200 ^{OG}