August 26, 1976

The Superior Oil Company

Midland, Texas

Attn: Drilling Dept.

RE: BOP Test - Your State "R" #1

Gentlemen:

We made a hydrostatic pressure test to captioned blowout control equipment on August 25, 1976, and wish to advise the following:

At the conclusion of testing:

Items of the blowout control equipment from top of test plug landed in casing head up through Hydril were tested to 3000# with separate tests being made at the pressure of 5000# to blind rams, upper pipe rams, lower pipe rams, upper kelly cock, drill pipe safety valve, chokeline, choke-manifold, and to the valves and fittings off the bop stack proper.

There were no visible leak to items tested at the conclusion of testing.

No delay was observed to operation of blowout control equipment at the conclusion of testing. Closures were made using closing unit pump and accumulators to the observed pressure of 1500# for test to ram type bops and 1000# for test to Hydril. Accumulators were pressured to 1500# at end of test. Control valves operated as indicated on closing unit manifold at end of test. Bop extentions were hooked up - rig coming out of hole.

No test desired to top of casing using packer, nor to the lower kelly cock.

Please contact us if you have any question concerning the above or any phase of this test.

We appreciate your business and we will welcome your suggestions as to how we may better serve you in the future.

Sincerely yours,

YELLOW JACKET TOOLS AND SERVICES, INC.

Jay E. Stubbs

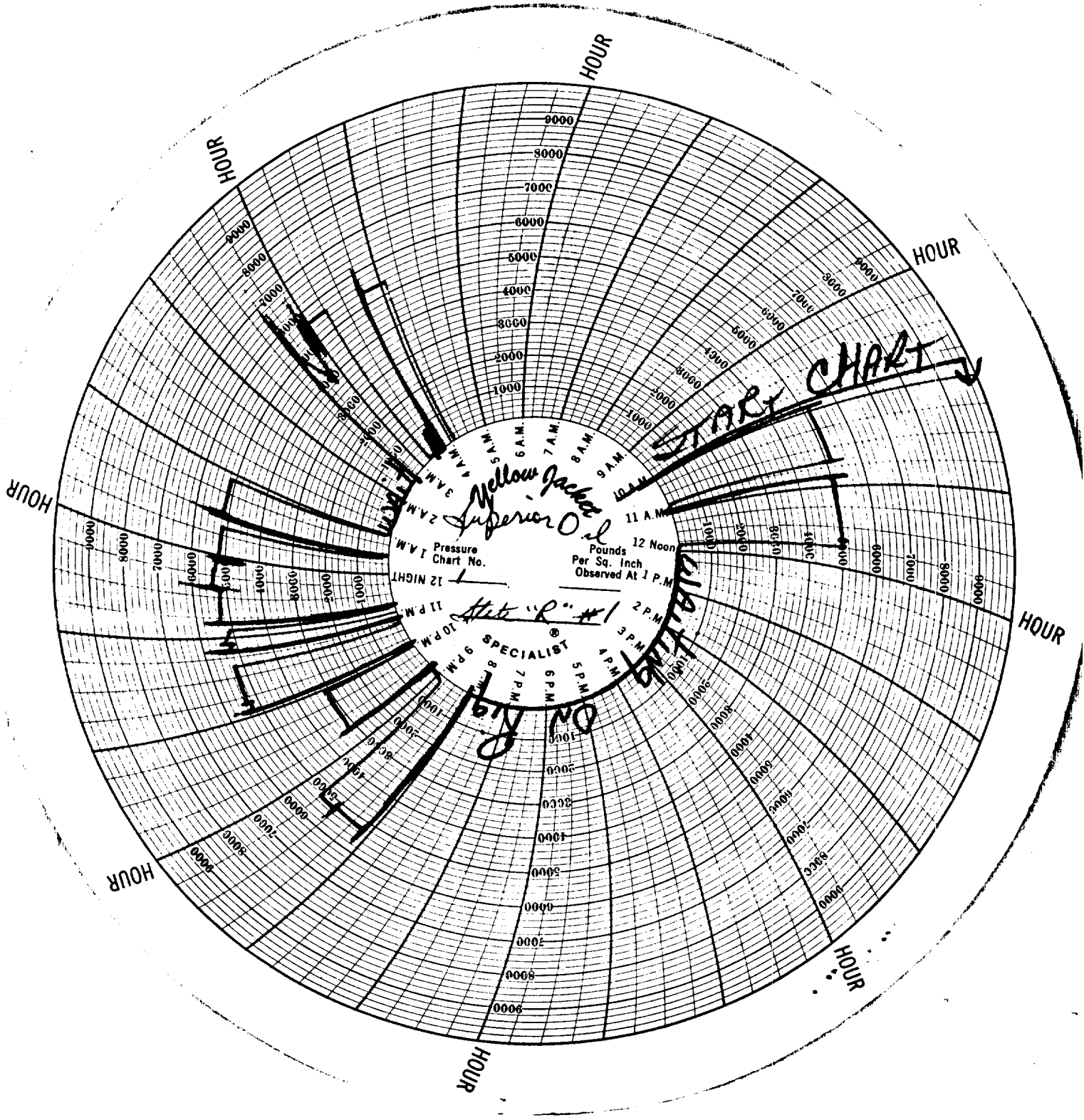
Jay E. Stubbs

JES/jms

Attachments

CC: U. S. G. S.

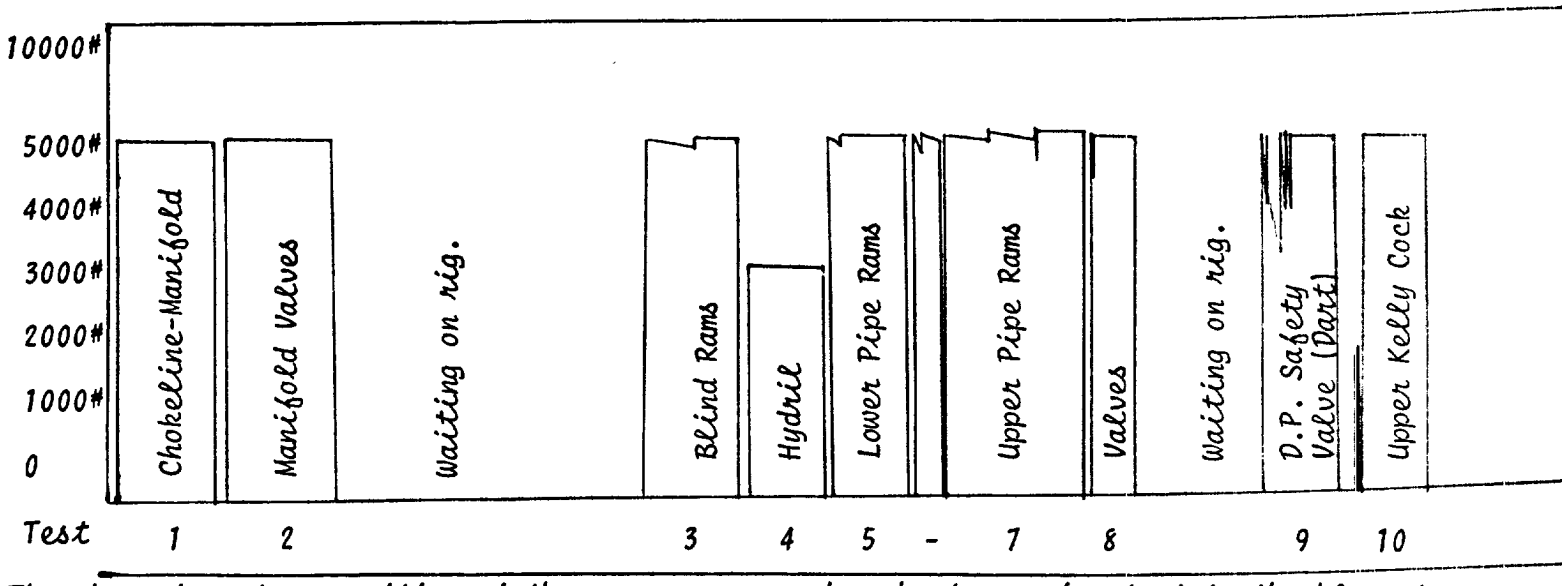
Artesia, New Mexico


HOUR
HOUR
HOUR
HOUR
HOUR
HOUR
9000
8000
7000
6000
5000
4000
3000
2000
1000
6 A.M.
7 A.M.
8 A.M.
9 A.M.
11 A.M.
12 Noon
1 P.M.
2 P.M.
3 P.M.
4 P.M.
5 P.M.
6 P.M.
7 P.M.
8 P.M.
9 P.M.
10 P.M.
11 P.M.
12 NIGHT
1 A.M.
2 A.M.
3 A.M.
4 A.M.
5 A.M.
Yellow Jacket
Superior Oil
Pressure
Chart No.
Pounds
Per Sq. Inch
Observed At 1 P.M.
State "R" #1
SPECIALIST
START CHART
ON RIG

Details of bop test The Superior Oil Company State "R" #1 8/25/76

Contractor: Noble Drlg. Rig N83 Test by Yellow Jacket Tools and Services, Inc.

======Transposition of the pressure recorder chart======



The above is a transposition of the pressure recorder chart covering test to the blowout control equipment in service on your well drilling in the Jal, New Mexico Area, Midland District, Texas. Test was made with test plug landed in casing head with the following test results: Arrived location - rig coming out of hole.

TESTING: Chokeline-Manifold with outside valve closed off stack on chokeline, outside outlet valve closed off choke-manifold cross, outside wing valve and valve off tee closed off manifold cross (pump side), and outside wing valve closed off manifold cross (pipe rack side) - pressure applied thru guage connection.

Test #1 Pressured to 5000# with pressure steady and holding for the sixteen minutes of test.

NO VISIBLE LEAK. PRESSURE STEADY AT APPROXIMATELY 5000#.

RETEST: Chokeline-Manifold same as before but with outside valve closed off stack on chokeline, inside outlet valve closed off choke-manifold cross, and inside wing valves closed off manifold cross - pressure applied as before.

Test #2 Pressured to 5000# with pressure steady and holding

for the eighteen minutes of test.

NO VISIBLE LEAK. PRESSURE STEADY AT APPROXIMATELY 5000#.

Waiting on rig.

TESTING: Blind Rams with inside valve closed next to stack on kill line, inside outlet valve closed off choke-manifold cross, and inside wing valves closed off manifold cross - pressure applied thru guage connection.

Test #3 Pressured to 5000# with loss of pressure; repressured to 5000# with loss of approximately 50# during first five minutes then leveling out for remaining one minute of test.

NO VISIBLE LEAK. PRESSURE STEADY AT APPROXIMATELY 5000#.

TESTING: Hydril with inside valve closed next to stack on kill line and outside valve closed off stack on chokeline - pressure applied down drill pipe.

Test #4 Pressured to 3000# with loss of approximately 100# during first thirteen minutes then leveling out for remaining one minute of test.

NO VISIBLE LEAK. PRESSURE LEVELING OUT TOWARDS APPROXIMATELY 2900#.

TESTING: Lower Pipe Rams with pressure applied down drill pipe.

Test #5 Pressured to 5000# with loss of pressure; repressured to 5000# with loss of approximately 50# during first nine minutes then leveling out for remaining one minute of test.

NO VISIBLE LEAK. PRESSURE STEADY AT APPROXIMATELY 5000#.

TESTING: Upper Pipe Rams with all outside valves closed off stack - pressure applied down drill pipe.

Test #6 Pressured to 5000# with loss of pressure; repressured to 5000# with leak thru outside valve off stack on chokeline.

RETEST: Upper Pipe Rams same as before but with outside valve closed off stack on kill line and inside valve closed next to stack on chokeline - pressure applied as before.

Test #7 Pressured to 5000# with loss of pressure; repressured to 5000# with loss of pressure; repressured to 5000# with loss of pressure; repressured to 5000# with loss of approximately 50# during first seven minutes then leveling out for remaining one minute of test.
NO VISIBLE LEAK. PRESSURE STEADY AT APPROXIMATELY 5000#.

TESTING: Check valve off stack on kill line and outside valve off stack on chokeline with upper pipe rams closed - pressure applied as before.

Test #8 Pressured to 5000# with loss of pressure; repressured to 5000# with loss of approximately 50# during first eight minutes then leveling out for remaining one minute of test.
NO VISIBLE LEAK. PRESSURE STEADY AT APPROXIMATELY 5000#.

Waiting on rig.

TESTING: Drill Pipe Safety Valve (Dart) with pressure applied at bottom.

Test #9 Pressured to 5000# with loss of pressure; repressured

to 5000# with loss of pressure; repressured to 5000# with loss of pressure; repressured to 5000# with loss of pressure; repressured to 5000# with loss of approximately 50# during first five minutes then leveling out for remaining one minute of test.
NO VISIBLE LEAK. PRESSURE STEADY AT APPROXIMATELY 5000#.

TESTING: Upper Kelly Cock with pressure applied at bottom of kelly.

Test #10 Pressured to 900# and released air; repressured to 1000# and released air; repressured to 5000# with loss of approximately 50# during first six minutes then leveling out for remaining one minute of test.
NO VISIBLE LEAK. PRESSURE STEADY AT APPROXIMATELY 5000#.

No delay was observed to operation of blowout control equipment at the conclusion of testing. Closures were made using both closing unit pump and accumulators to the observed pressure of 1500# for test to ram type bops and 1000# for test to Hydril. Accumulators were pressured to 1500# at end of test. Control valves operated as indicated on closing unit manifold at end of test. Bop extentions were hooked up - rig coming out of hole. No test desired to top of casing using packer, nor to the lower kelly cock.

YELLOW JACKET TOOLS AND SERVICES, INC. ODESSA, TEXAS

Test made by Edward Schwarz Edward Schwarz

HYDROSTATIC PRESSURE TEST - B.O.P.'s

The Superior Oil Company - State "R" #1

August 25, 1976

by

Yellow Jacket Tools and Services, Inc.

Odessa, Texas

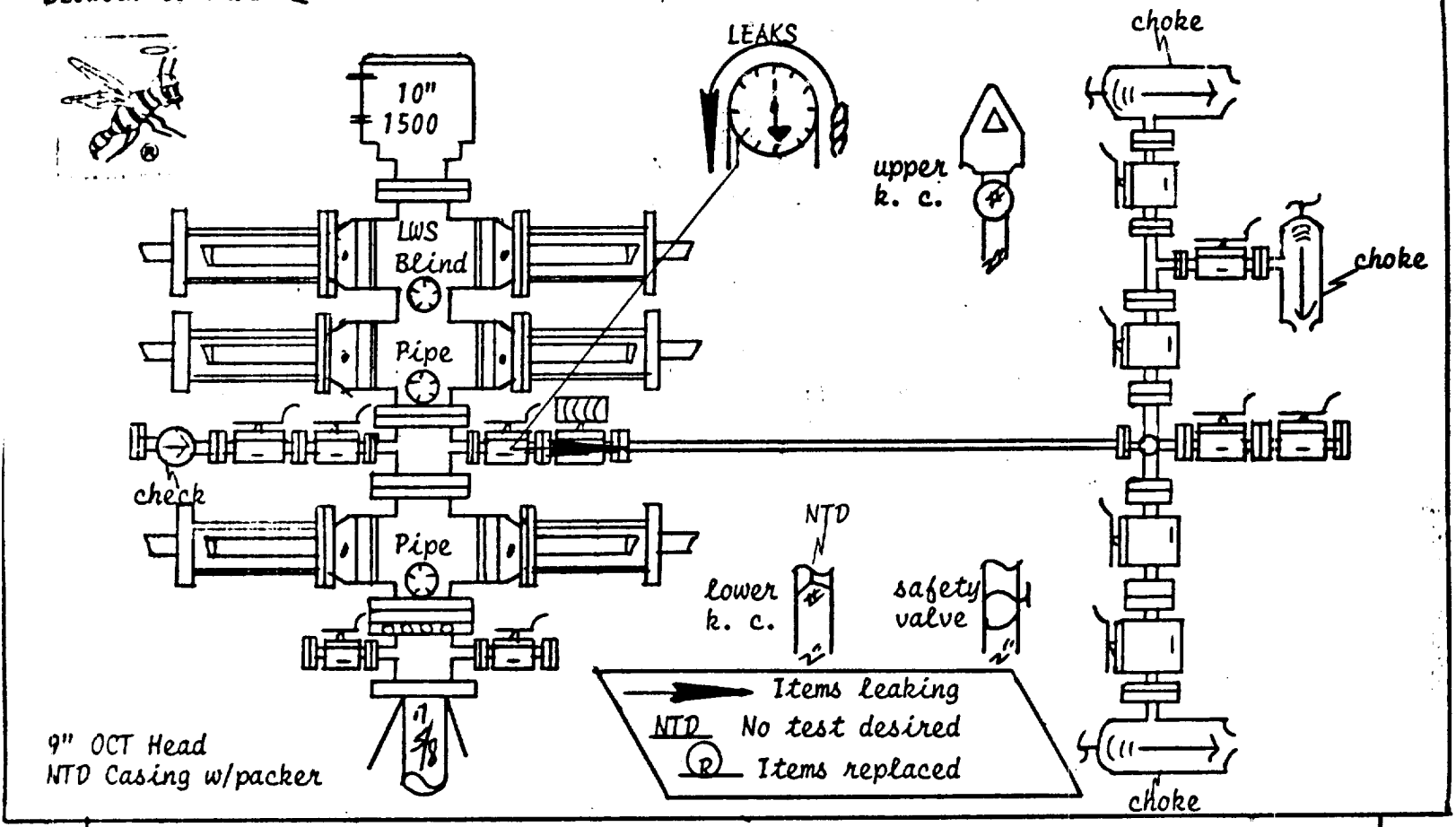
RECEIVED

AUG 3 0 1976

U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

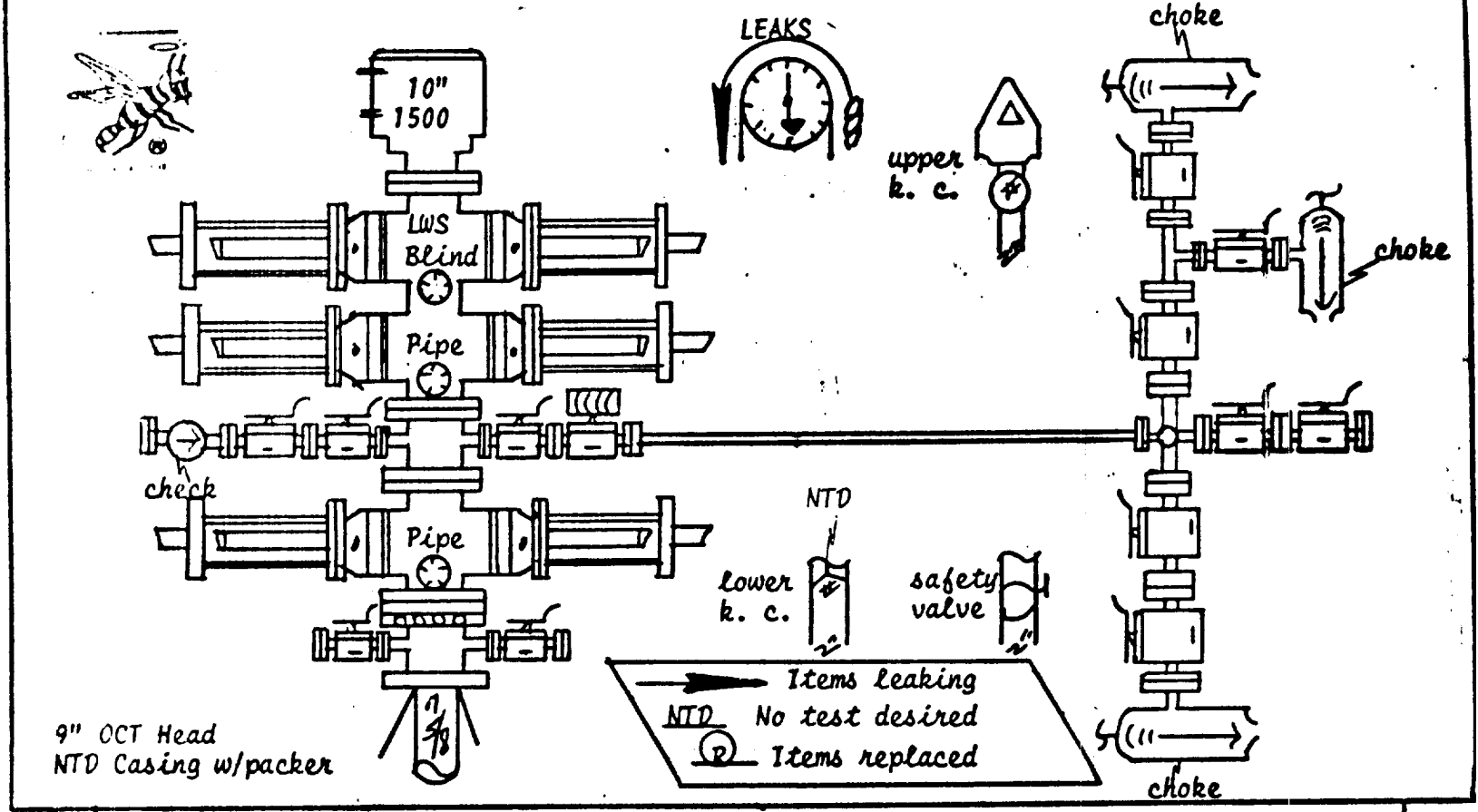
CC: U. S. G. S.

BLOWOUT CONTROL EQUIPMENT.....THE SUPERIOR OIL COMPANY.....STATE "R" #1



Items Leaking DURING Testing 8/25/76

BLOWOUT CONTROL EQUIPMENT.....THE SUPERIOR OIL COMPANY.....STATE "R" #1



NO VISIBLE LEAK AT THE CONCLUSION OF TESTING 8/25/76

COUNTY LEA FIELD Wildcat STATE NM

OPR SUPERIOR OIL CO., THE API 30-025-25269

NO 1 LEASE State "R" SERIAL 11-4-6 NM

Sec 25, T23S, R34E MAP

660' FSL, 1980' FWL of Sec CO-ORD

26½ mi SW/Halfway ELEV [redacted] LGS

SPD 4-28-76 CMP 10-20-76 WELL CLASS: INIT. WF FIN WFD

CSG

20" at 36' w/189 cu. ft.
13 3/8" at 801' w/700 sx
10 3/4" at 5212' w/2476 sx
7 5/8" at 12,168' w/700 sx
5" lnr 11,944-14,100' w/455 sx

FORMATION	DATUM	FORMATION	DATUM

TD 14,100' (MSSP) PBD 10,990'

IP (Bone Spring) Perfs 10,648-668' F 157 BOPD + tr wtr. Pot based on 24 hr test thru 20/64" chk. GOR 1529; gty 41.4; TP 80#

CONTR Noble OPR'S ELEV 3387' GL PD 14,100' RT

F.R. 5-3-76
(Mississippian)

5-11-76 TD 36'; RURT
5-17-76 Drlg 1450' sd & lm
5-25-76 Drlg 4549' lm, anhy & sd
6-1-76 TD 5212'; Prep Drill
6-7-76 TD 9292' lm & sd; Fsg
6-14-76 TD 10,934'; Fsg
6-22-76 Drlg 11,375' lm, sh & sd
6-28-76 Drlg 11,593' lm, sh & sd
7-2-76 TD 12,168' lm & sh; CO @ 12,128'
7-12-76 Drlg 12,409' lm & sh
7-19-76 Drlg 12,824' sh
7-26-76 Drlg 13,003' lm & sh
8-3-76 Drlg 13,240' lm & sh

11-4-6 NM

8-9-76 Drlg 13,434' lm & sh
[redacted] Drlg 13,712' lm & sh
[redacted] Drlg 13,887' sh
8-31-76 TD 14,100'; Prep Log
9-7-76 TD 14,100'; CO to 13,602'; LDDP
9-13-76 TD 14,100'; PBD 13,602'; WOCU
9-21-76 TD 14,100'; PBD 13,602'; Prep Sqz 2nd Stage
Perf (Morrow) 13,508-523' w/2 SPF
No increase in TP (13,508-523')
Perf (Morrow) 13,508-523' w/2 SPF
No increase in TP (13,508-523')
Perf (Morrow) 13,508-523' w/4 SPF
Acid (13,508-523') 2000 gals

11-4-6 NM

9-21-76 Continued
Flwd 10 MCFGPD (13,508-523')
Sqzd 13,508-523' w/75 sx
9-28-76 TD 14,100'; PBD 12,928'; SD
Perf (Morrow) 13,253-260' w/4 SPF
Flwd 10-15 MCFGPD thru 3/4" chk (13,253-260')
Acid (13,253-260') 2000 gals
Jetted no fluid + gas @ max 250 MCFGPD thru 3/4" chk, TP 0# (13,253-260')
PB to 12,928'
Perf (Morrow) 12,848-865' w/4 SPF
10-5-76 TD 14,100'; PBD 12,790'; Prep Test
Acid (12,848-865') 2000 gals
Jetted 75 BW w/tr cond & sli amt gas in 10 hrs 30 mins (12,848-865')
Sqzd 12,848-865' w/174 sx
Perf (Atoka) 12,748-759' w/4 SPF

11-4-6 NM

10-12-76 TD 14,100'; PBD 10,991'; MORT
Acid (12,748-759') 2000 gals
Rev out acid & wtr (12,748-759')
PB to 12,368'
Perf (Strawn) 12,188-200' w/4 SPF
Acid (12,188-200') 2000 gals
Jetted 4 BW + gas @ 100 MCFGPD thru 3/4" chk,
TP 0# (12,188-200')
PB to 10,991'

10-19-76 TD 14,100'; PBD 10,991'; MORT

10-26-76 TD 14,100'; PBD 10,991'; Prep Acid
Perf (Bone Spring) 10,648-668' w/4 SPF
Flwd 58 BO in 24 hrs thru 3/4" chk, TP 0-100#
(10,648-668')

11-4-6 NM

10-26-76 Continued
Flwd 48 BO in 24 hrs (10,648-668')

11-1-76 TD 14,100'; PBD 10,991'; WOSP
Acid (10,648-668') 1000 gals
Flwd 157 BO + tr wtr in 24 hrs thru 20/64" chk,
GOR 1529; gty 41.4; TP 80# (10,648-668')

11-8-76 TD 14,100'; PBD 10,991'; Complete (Hold for tops)

11-22-76 TD 14,100'; PBD 10,991'; Complete
Bone Spring Discovery, No Suggested Field Name
LOG TOPS: Delaware Sand 5210', Bone Spring 8720',
Wolfcamp 11,560', Strawn 12,150', Atoka 12,395',
Morrow 13,285', Mississippian 14,020'

11-27-76; COMPLETION ISSUED

11-4-6 NM
IC 30-025-70089-76

Pool ANTELOPE RIDGE-BONE SPRINGS Operator Mobil Prod. TX. & N.M. Inc. ~~Mobil Producing TX. & N.M. Inc.~~ ~~The Superior Oil Company~~ ~~The Superior Oil Company~~

Lease State "R" Well No. 1 Unit N S 25 T 23 R 34

DATE OF TEST	10	Daily Allowable	PRODUCED DURING TEST			Gas-Oil Ratio	Packer Leakage Field
			Water, Bbls.	Oil, Bbls.	Gas, MCF		
1-16-78	24	214	0	30	1	33	
11-17-76	24	157	—	214	366	1710	
2-8-79	24	30	0	6	3	500	
2-15-80	24	6	0	4	0	0	
2-7-81	24	4	1	5.4	0	0	
2-14-82	24	6	.5	4.5	1	222	
2-21-83	24	5	2	9	1.5	167	
2-15-84	24	9	1	2	TSTM	—	
1-17-85	24	—	1	1.12	1	893	
([illegible]) TA							
([illegible]) P+A							

Pool _____ Operator _____

Lease _____ Well No. _____ Unit _____ S _____ T _____ R _____

DATE OF TEST	Daily Allowable	PRODUCED DURING TEST			Gas-Oil Ratio	Packer Leakage Field
		Water, Bbls.	Oil, Bbls.	Gas, MCF		