

DST REPORT

GENERAL INFORMATION

DATE : 2/2/94
CUSTOMER : BEREXCO, INC.
WELL : #6 TEST: 1
ELEVATION: 2313 KB
SECTION : 21
RANGE : 21W COUNTY: NESS
GAUGE SN#: 10270 RANGE : 4150
TICKET : 19028
LEASE : CHAFF UNIT
GEOLOGIST: HALL
FORMATION: CHEROKEE SAND
TOWNSHIP : 16S
STATE : KS
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4181.00 ft TO: 4194.00 ft TVD: 4194.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 4184.0 ft 4187.0 ft
TEMPERATURE: 117.0
DRILL COLLAR LENGTH: 360.0 ft I.D.: 2.200 in
WEIGHT PIPE LENGTH : 0.0 ft I.D.: 0.000 in
DRILL PIPE LENGTH : 3793.0 ft I.D.: 3.800 in
TEST TOOL LENGTH : 28.0 ft TOOL SIZE : 5.500 in
ANCHOR LENGTH : 13.0 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: 4184.0 ft SIZE: 6.630 in
PACKER DEPTH: 4187.0 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. : EMPHASIS DRLG RIG 8
MUD TYPE : CHEMICAL VISCOSITY : 53.00 cp
WEIGHT : 9.100 ppg WATER LOSS: 8.800 cc
CHLORIDES : 6000 ppm
JARS-MAKE : WTC SERIAL NUMBER: 422
DID WELL FLOW?: NO REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK BLOW THROUGHOUT - 1/4
INCH TO 3 INCH BLOW. FINAL FLOW PERIOD NO BLOW.
PACKER DID NOT HOLD WHEN FIRST SET PULLED LOOSE

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

AND RESET - THEN THEY HELD.
PLUGGING ACTION IFP & FFP

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
70.0	1.0	0.0	0.0	99.0	SLIGHTLY OIL CUT MUD
120.0	0.0	0.0	20.0	80.0	THIN MUD
0.0	0.0	0.0	0.0	0.0	CHLORIDES 12000 PPM

RATE INFORMATION

OIL VOLUME:	0.0033	STB	TOTAL FLOW TIME:	30.0000	min.
GAS VOLUME:	0.0000	SCF	AVERAGE OIL RATE:	15.7966	STB/D
MUD VOLUME:	0.7771	STB	AVERAGE WATER RATE:	27.0798	STB/D
WATER VOLUME:	0.1128	STB			
TOTAL FLUID :	0.8933	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2004.00

Description	Duration	p1	p End
INITIAL FLOW	15.00	104.00	104.00
INITIAL SHUT-IN	30.00		385.00
FINAL FLOW	15.00	104.00	104.00
FINAL SHUT-IN	45.00		385.00

FINAL HYDROSTATIC PRESSURE: 2004.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2044.00

<u>Description</u>	<u>Duration</u>	<u>p1</u>	<u>p End</u>
INITIAL FLOW	15.00	129.00	131.00
INITIAL SHUT-IN	30.00		393.00
FINAL FLOW	15.00	131.00	132.00
FINAL SHUT-IN	45.00		394.00

FINAL HYDROSTATIC PRESSURE: 2012.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 2/2/94	TICKET : 19028
CUSTOMER : BEREXCO, INC.	LEASE : CHAFF UNIT
WELL : #6	GEOLOGIST: HALL
ELEVATION: 2313 KB	FORMATION: CHEROKEE SAND
SECTION : 21	TOWNSHIP : 16S
RANGE : 21W	STATE : KS
GAUGE SN#: 10270	CLOCK : 12
TEST: 1	
COUNTY: NESS	
RANGE : 4150	

INITIAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	129.00	129.00
5.00	129.00	0.00
10.00	130.00	1.00
15.00	131.00	1.00

INITIAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	144.00	144.00	6.00
6.00	165.00	21.00	3.50
9.00	202.00	37.00	2.67
12.00	244.00	42.00	2.25
15.00	283.00	39.00	2.00
18.00	348.00	65.00	1.83
21.00	388.00	40.00	1.71
24.00	391.00	3.00	1.63
27.00	392.00	1.00	1.56
30.00	393.00	1.00	1.50

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	131.00	131.00
5.00	167.00	36.00
10.00	131.00	-36.00
15.00	132.00	1.00

PRESSURE TRANSIENT REPORT (CONTINUED)

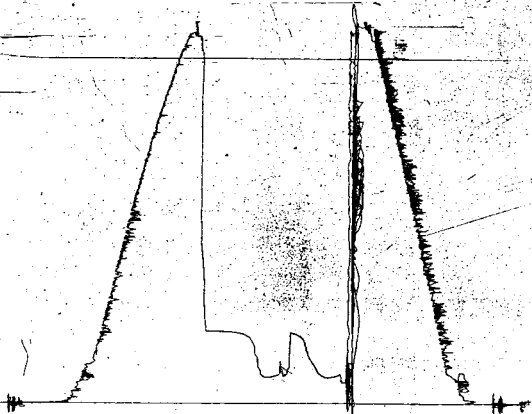
FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	150.00	150.00	6.00
6.00	229.00	79.00	3.50
9.00	323.00	94.00	2.67
12.00	375.00	52.00	2.25
15.00	379.00	4.00	2.00
18.00	383.00	4.00	1.83
21.00	386.00	3.00	1.71
24.00	389.00	3.00	1.63
27.00	394.00	5.00	1.56
30.00	394.00	0.00	1.50
33.00	394.00	0.00	1.45
36.00	394.00	0.00	1.42
39.00	394.00	0.00	1.38
42.00	394.00	0.00	1.36
45.00	394.00	0.00	1.33

TR# 19028

Or

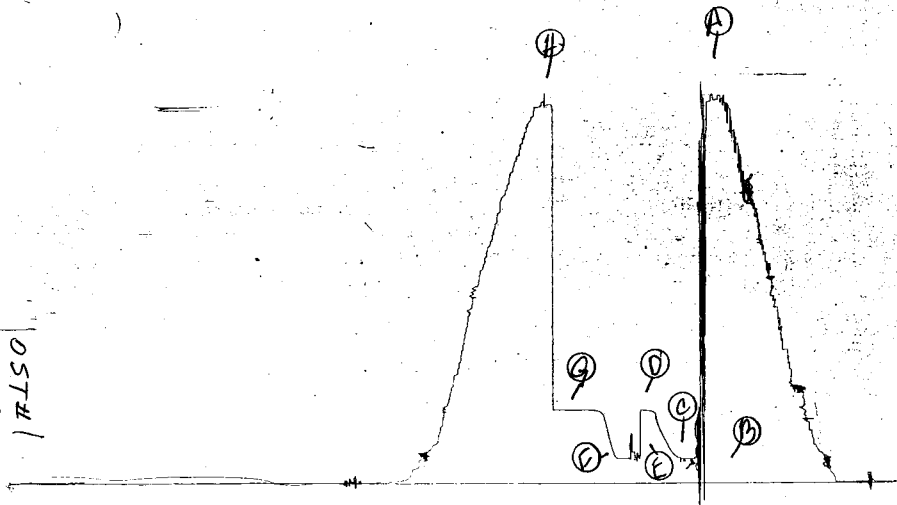
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TR# 19028

I.

OST#
10270



DST REPORT

GENERAL INFORMATION

DATE : 2/3/94	TICKET : 19029
CUSTOMER : BEREXCO, INC.	LEASE : CHAFF UNIT
WELL : #6 TEST: 2	GEOLOGIST: HALL
ELEVATION: 2313 KB	FORMATION: CHEROKEE SAND
SECTION : 21	TOWNSHIP : 16S
RANGE : 21W COUNTY: NESS	STATE : KS
GAUGE SN#: 10270 RANGE : 4150	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4232.00 ft	TO: 4250.00 ft	TVD: 4250.0 ft
DEPTH OF SELECTIVE ZONE:		TEST TYPE: OIL
DEPTH OF RECORDERS: 4240.0 ft	4243.0 ft	
TEMPERATURE: 117.0		

DRILL COLLAR LENGTH: 360.0 ft	I.D.:	2.200 in
WEIGHT PIPE LENGTH : 0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH : 3844.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH : 28.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH : 18.0 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: 4227.0 ft	SIZE:	6.630 in
PACKER DEPTH: 4232.0 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. : EMPHASIS DRLG RIG 8	VISCOSITY : 50.00 cp
MUD TYPE : CHEMICAL	WATER LOSS: 8.800 cc
WEIGHT : 8.900 ppg	
CHLORIDES : 7000 ppm	SERIAL NUMBER: 422
JARS-MAKE : WTC	REVERSED OUT?: NO
DID WELL FLOW?: NO	

COMMENTS

Comment

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

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
10.0	100.0	0.0	0.0	0.0	CLEAN OIL GRAVITY 38 OIL & GAS CUT MUD
120.0	6.0	4.0	0.0	90.0	

RATE INFORMATION

OIL VOLUME:	0.0809 STB	TOTAL FLOW TIME:	55.0000 min.
GAS VOLUME:	0.1267 SCF	AVERAGE OIL RATE:	15.4109 STB/D
MUD VOLUME:	0.5077 STB	AVERAGE WATER RATE:	0.0000 STB/D
WATER VOLUME:	0.0000 STB		
TOTAL FLUID :	0.5886 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2097.00

Description	Duration	p1	p End
INITIAL FLOW	10.00	62.00	62.00
INITIAL SHUT-IN	60.00		124.00
FINAL FLOW	45.00	72.00	93.00
FINAL SHUT-IN	60.00		124.00

FINAL HYDROSTATIC PRESSURE: 2066.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2092.00

Description	Duration	p1	p End
INITIAL FLOW	10.00	73.00	59.00
INITIAL SHUT-IN	63.00		127.00
FINAL FLOW	45.00	81.00	91.00
FINAL SHUT-IN	60.00		127.00

FINAL HYDROSTATIC PRESSURE: 2077.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 2/3/94	TICKET : 19029
CUSTOMER : BEREXCO, INC.	LEASE : CHAFF UNIT
WELL : #6	TEST: 2
ELEVATION: 2313 KB	GEOLOGIST: HALL
SECTION : 21	FORMATION: CHEROKEE SAND
RANGE : 21W	TOWNSHIP : 16S
COUNTY: NESS	STATE : KS
Gauge SN#: 10270	RANGE : 4150
	CLOCK : 12

INITIAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	73.00	73.00
5.00	59.00	-14.00
10.00	59.00	0.00

INITIAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	79.00	79.00	4.33
6.00	100.00	21.00	2.67
9.00	113.00	13.00	2.11
12.00	123.00	10.00	1.83
15.00	123.00	0.00	1.67
18.00	123.00	0.00	1.56
21.00	123.00	0.00	1.48
24.00	124.00	1.00	1.42
27.00	124.00	0.00	1.37
30.00	124.00	0.00	1.33
33.00	124.00	0.00	1.30
36.00	125.00	1.00	1.28
39.00	125.00	0.00	1.26
42.00	125.00	0.00	1.24
45.00	125.00	0.00	1.22
48.00	126.00	1.00	1.21
51.00	126.00	0.00	1.20
54.00	126.00	0.00	1.19
57.00	127.00	1.00	1.18
60.00	127.00	0.00	1.17
63.00	127.00	0.00	1.16

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

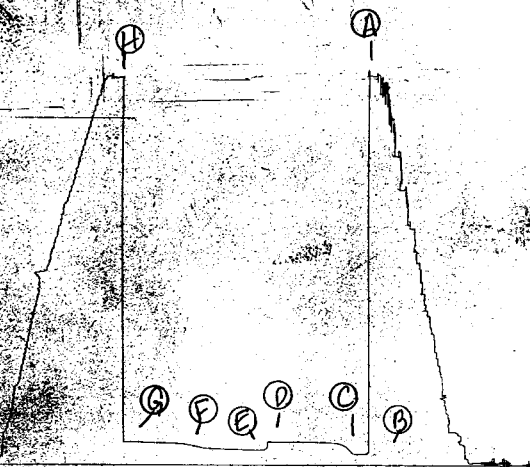
<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	81.00	81.00
5.00	83.00	2.00
10.00	84.00	1.00
15.00	85.00	1.00
20.00	86.00	1.00
25.00	87.00	1.00
30.00	88.00	1.00
35.00	89.00	1.00
40.00	90.00	1.00
45.00	91.00	1.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	96.00	96.00	16.00
6.00	104.00	8.00	8.50
9.00	108.00	4.00	6.00
12.00	110.00	2.00	4.75
15.00	112.00	2.00	4.00
18.00	114.00	2.00	3.50
21.00	115.00	1.00	3.14
24.00	116.00	1.00	2.88
27.00	117.00	1.00	2.67
30.00	118.00	1.00	2.50
33.00	119.00	1.00	2.36
36.00	120.00	1.00	2.25
39.00	121.00	1.00	2.15
42.00	122.00	1.00	2.07
45.00	123.00	1.00	2.00
48.00	125.00	2.00	1.94
51.00	125.00	0.00	1.88
54.00	126.00	1.00	1.83
57.00	126.00	0.00	1.79
60.00	127.00	1.00	1.75

TK# 19029

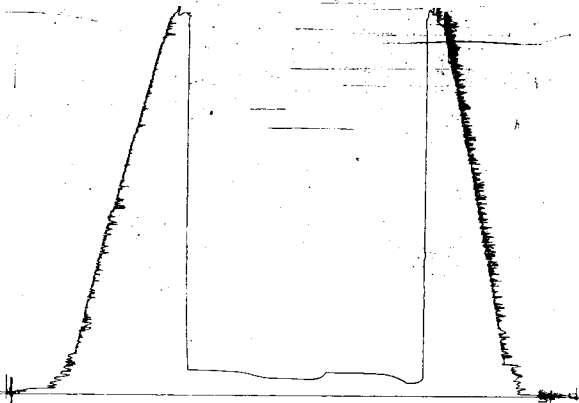
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OST# 2
10270

TK# 19029

O.



OST# 2
13550