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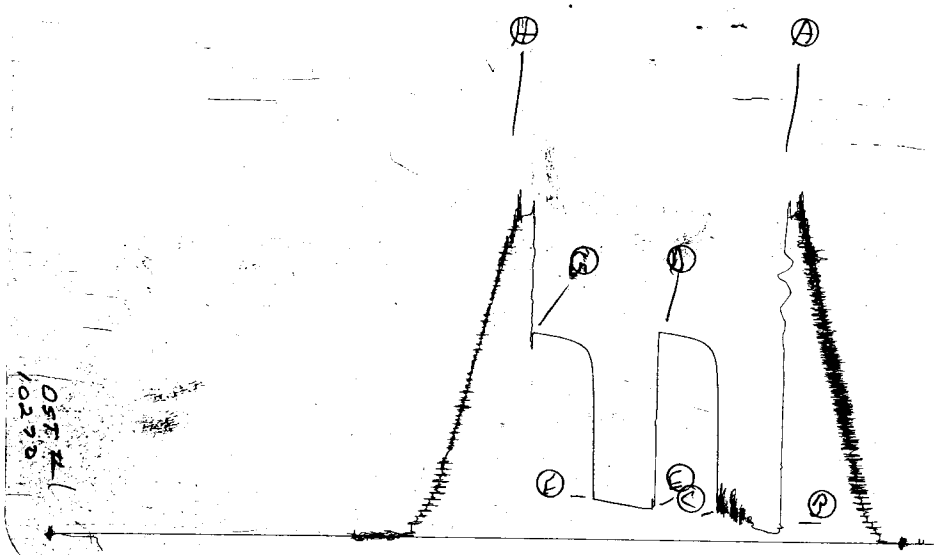

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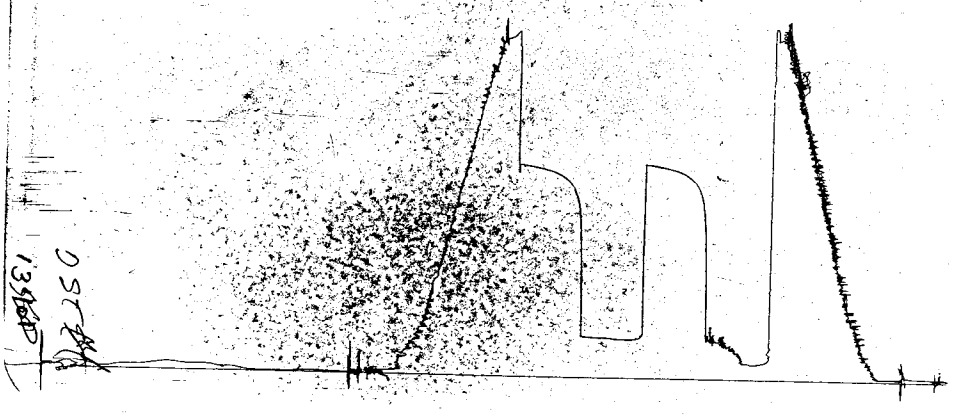
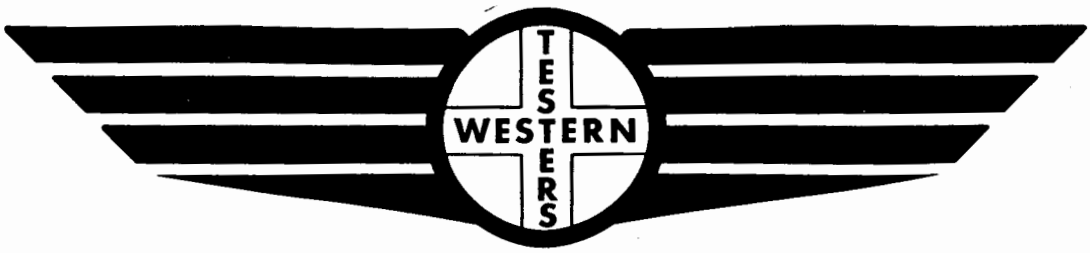


FORMATION TEST REPORT



Home Office: Wichita, Kansas 67201

P.O. Box 1599 Phone **1-800-688-7021**

COMPANY CHALLENGER EXPLORATION LEASE & WELL NO. #1 WILD BILL SEC. 20 TWP. 11S RGE. 19W TEST NO. 1 DATE 5/2/93

DST REPORT

GENERAL INFORMATION

DATE	: 5/2/93	TICKET	: 18539
CUSTOMER	: CHALLENGER EXPLORATION	LEASE	: WILD BILL
WELL	: #1 TEST: 1	GEOLOGIST	: WORTH JR.
ELEVATION:		FORMATION	: ARBUCKLE
SECTION	: 20	TOWNSHIP	: 11S
RANGE	: 19W COUNTY: ELLIS	STATE	: KS
GAUGE SN#:	10270 RANGE : 4150	CLOCK	: 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 3479.00 ft TO: 3539.00 ft TVD: 3539.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 3482.0 ft 3485.0 ft
TEMPERATURE: 114.0

DRILL COLLAR LENGTH:	235.0 ft	I.D.:	2.200 in
WEIGHT PIPE LENGTH :	507.0 ft	I.D.:	2.700 in
DRILL PIPE LENGTH :	2717.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	60.0 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:	3474.0 ft	SIZE:	6.630 in
PACKER DEPTH:	3479.0 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.	: MURFIN DRLG RIG 3		
MUD TYPE	: CHEMICAL	VISCOSITY :	44.00 cp
WEIGHT	: 9.600 ppg	WATER LOSS:	0.000 cc
CHLORIDES	: 0 ppm		
JARS-MAKE	:	SERIAL NUMBER:	
DID WELL FLOW?:	NO	REVERSED OUT?:	NO

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK BUILDING TO A GOOD BLOW
1 TO 8 1/2 INCHES. FINAL FLOW PERIOD STRONG BLOW
IN 6 MINUTES- 8 INCHES TO BOTTOM OF BUCKET.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
5.0	48.0	0.0	0.0	52.0	VERY HVY OIL CUT MUD
180.0	28.0	0.0	0.0	72.0	HVY OIL CUT MUD
240.0	100.0	0.0	0.0	0.0	CLEAN OIL GRAVITY 28

RATE INFORMATION

OIL VOLUME: 1.5141 STB
GAS VOLUME: 0.0000 SCF
MUD VOLUME: 0.9361 STB
WATER VOLUME: 0.0000 STB
TOTAL FLUID : 2.4502 STB

TOTAL FLOW TIME: 90.0000 min.
AVERAGE OIL RATE: 39.2039 STB/D
AVERAGE WATER RATE: 0.0000 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1755.00

Description	Duration	p1	p End
INITIAL FLOW	45.00	52.00	72.00
INITIAL SHUT-IN	45.00		1112.00
FINAL FLOW	45.00	166.00	218.00
FINAL SHUT-IN	45.00		1101.00

FINAL HYDROSTATIC PRESSURE: 1734.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1782.00

Description	Duration	p1	p End
INITIAL FLOW	45.00	50.00	206.00
INITIAL SHUT-IN	51.00		1124.00
FINAL FLOW	45.00	175.00	220.00
FINAL SHUT-IN	51.00		1112.00

FINAL HYDROSTATIC PRESSURE: 1742.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 5/2/93	TICKET	: 18539
CUSTOMER	: CHALLENGER EXPLORATION	LEASE	: WILD BILL
WELL	: #1 TEST: 1	GEOLOGIST	: WORTH JR.
ELEVATION:		FORMATION	: ARBUCKLE
SECTION	: 20	TOWNSHIP	: 11S
RANGE	: 19W COUNTY: ELLIS	STATE	: KS
GAUGE SN#:	10270 RANGE : 4150	CLOCK	: 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	50.00	50.00
5.00	50.00	0.00
10.00	55.00	5.00
15.00	68.00	13.00
20.00	81.00	13.00
25.00	133.00	52.00
30.00	181.00	48.00
35.00	252.00	71.00
40.00	181.00	-71.00
45.00	206.00	25.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	737.00	737.00	0.00
6.00	929.00	192.00	0.00
9.00	1010.00	81.00	0.00
12.00	1036.00	26.00	0.00
15.00	1056.00	20.00	0.00
18.00	1070.00	14.00	0.00
21.00	1080.00	10.00	0.00
24.00	1085.00	5.00	0.00
27.00	1092.00	7.00	0.00
30.00	1098.00	6.00	0.00
33.00	1104.00	6.00	0.00
36.00	1108.00	4.00	0.00
39.00	1112.00	4.00	0.00
42.00	1116.00	4.00	0.00
45.00	1118.00	2.00	0.00
48.00	1120.00	2.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

Time (min)	Pressure	Delta P	Horner T
51.00	1124.00	4.00	0.00

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	175.00	175.00
5.00	175.00	0.00
10.00	175.00	0.00
15.00	183.00	8.00
20.00	190.00	7.00
25.00	196.00	6.00
30.00	201.00	5.00
35.00	208.00	7.00
40.00	213.00	5.00
45.00	220.00	7.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	826.00	826.00	0.00
6.00	963.00	137.00	0.00
9.00	1017.00	54.00	0.00
12.00	1036.00	19.00	0.00
15.00	1051.00	15.00	0.00
18.00	1061.00	10.00	0.00
21.00	1068.00	7.00	0.00
24.00	1075.00	7.00	0.00
27.00	1081.00	6.00	0.00
30.00	1086.00	5.00	0.00
33.00	1090.00	4.00	0.00
36.00	1093.00	3.00	0.00
39.00	1097.00	4.00	0.00
42.00	1104.00	7.00	0.00
45.00	1106.00	2.00	0.00
48.00	1110.00	4.00	0.00
51.00	1112.00	2.00	0.00

WESTERN TESTING CO., INC.
FORMATION TESTING TICKET

Last
No. 18539

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

Elevation ? KB Formation Arbuckle Eff. Pay — Ft.

District GT. Bend Date 5-2-93 Customer Order No. —

COMPANY NAME Challenger Exploration

ADDRESS P.O. Box 1112 Hays, Ks. 67601

LEASE AND WELL NO. Wild Bill #1 COUNTY Ellis STATE Ks Sec. 20 Twp. 11S Rge. 19W

Mail Invoice To Same No. Copies Requested Reg
Co. Name #1 Wild Bill Address

Mail Charts To Same No. Copies Requested Reg
Address

Formation Test No. 1 Interval Tested From 3479 ft. to 3539 ft. Total Depth 3539 ft.

Packer Depth 3474 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Packer Depth 3479 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside) 3482 ft. Recorder Number 10270 Cap. 4150

Bottom Recorder Depth (Outside) 3485 ft. Recorder Number 13550 Cap. 4175

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

Drilling Contractor Murfin Drlg rig 3 Drill Collar Length 235 I. D. 2 2 in.

Mud Type Chemical Viscosity 44 Weight Pipe Length 507 I. D. 2.7 in.

Weight 9.6 Water Loss N/A cc. Drill Pipe Length 2717 I. D. 3.8 in.

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

Jars: Make — Serial Number — Anchor Length 60 ft. Size 5 1/2 in.

Did Well Flow? — Reversed Out — 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 IF - WEAK building TO A Good Blow 1" To 8 1/2" Blow
FF - STRong Blow in 6 min 8" To Bottom of Bucket

Recovered 5 ft. of Dry Heavy oil cut Mud 48% oil 52% mud

Recovered 180 ft. of Heavy oil cut mud 28% oil 72% mud

Recovered 240 ft. of CLEAN oil

Recovered ft. of GRAVITY 28

Recovered ft. of

Chlorides — P.P.M. Sample Jars used 5 Remarks:

MAY 07 1993

Time On Location 12:00 A.M. P.M. Time Pick Up Tool 1:00 A.M. P.M. Time Off Location 9:00 A.M. P.M.

Time Set Packer(s) 2:40 A.M. P.M. Time Started Off Bottom 5:40 A.M. P.M. Maximum Temperature 114°

Initial Hydrostatic Pressure		(A)	1755	P.S.I.	
Initial Flow Period	Minutes 45	(B)	52	P.S.I. to (C) 72	P.S.I.
Initial Closed In Period	Minutes 45	(D)	1112	P.S.I.	
Final Flow Period	Minutes 45	(E)	166	P.S.I. to (F) 218	P.S.I.
Final Closed In Period	Minutes 45	(G)	1101	P.S.I.	
Final Hydrostatic Pressure		(H)	1734	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 Vincent Schreiber Jr
Signature of Customer or his authorized representative

Western Representative Ray Schweyer 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 5-2-92 Test Ticket No. 18529

Recorder No. 10270 Capacity Location Ft.

Clock No. Elevation Well Temperature °F

Point		Pressure		Time Given	Time Computed
A	Initial Hydrostatic Mud	1782	P.S.I.	Open Tool M	
B	First Initial Flow Pressure	50	P.S.I.	First Flow Pressure Mins. 45	Mins.
C	First Final Flow Pressure	206	P.S.I.	Initial Closed-in Pressure Mins. 51	Mins.
D	Initial Closed-in Pressure	1144	P.S.I.	Second Flow Pressure Mins. 45	Mins.
E	Second Initial Flow Pressure	175	P.S.I.	Final Closed-in Pressure Mins. 51	Mins.
F	Second Final Flow Pressure	220	P.S.I.		
G	Final Closed-in Pressure	1112	P.S.I.		
H	Final Hydrostatic Mud	1742	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 5 mins. and a		of 3 mins. and a		of 5 mins. and a		of 3 mins. and a	
final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	50	0	206	0	175	0	220
P 2 5	50	3	937	5	175	3	826
P 3 10	55	6	959	10	175	6	962
P 4 15	68	9	1010	15	183	9	1017
P 5 20	81	12	1036	20	190	12	1036
P 6 25	132	15	1056	25	198	15	1054
P 7 30	181	18	1070	30	201	18	1064
P 8 35	2500K	21	1080	35	208	21	1068
P 9 40	181	24	1085	40	212	24	1075
P10 45	206	27	1092	45	220	27	1081
P11 50		30	1098	50		30	1086
P12 55		33	1104	55		33	1090
P13 60		36	1108	60		36	1093
P14 65		39	1112	65		39 1097	[illegible]
P15 70		42	1116	70		42	1104
P16 75		45	1118	75		45	1106
P17 80		48	1120	80		48	1110
P18 85		51	1124	85		51	1112
P19 90		54		90		54	
P20 95		57		95		57	
100		60		100		60	