

ORIGINAL

FORM MUST BE TYPED

SIDE ONE

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

API NO. 15- 033-21090-0000

County COMANCHE COUNTY, KANSAS

- C - NE-NE Sec. 17 Twp. 32 Rge. 18 X W

Operator: License # 3869

Name: IMPERIAL OIL PROPERTIES, INC.

Address 200 E. FIRST ST. #413

City/State/Zip WICHITA, KS. 67202

Purchaser: NONE

Operator Contact Person: JON T. WILLIAMS, JR.

Phone (316) 263-5596

Contractor: Name: VAL ENERGY

License: 5822

Wellsite Geologist: JON T. WILLIAMS, JR.

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD SOW Temp. Abd.

Gas ENHR SIGW

Dry Other (Core, WSW, Explor., Cathodic, etc)

If Workover:

Operator: JUN 21 2001

Well Name: FROM CONFIDENTIAL

Comp. Date 5/24/00 Old Total Depth 6/6/00

Deepening Re-perf. Conv. to Inj/SWD

Plug Back PBT

Commingled Docket No.

Dual Completion Docket No.

Other (SWD or Inj?) Docket No.

5/24/00 6/6/00 6/6/00
Spud Date Date Reached TD Completion Date

660 Feet from S (circle one) Line of Section

660 Feet from E (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:

(NE) SE, NW or SW (circle one)

Lease Name BERGNER "C" Well # 17-1

Field Name NESCATUNGA

Producing Formation NONE

Elevation: Ground 2144 KB 2154

Total Depth 5347 PBD

Amount of Surface Pipe Set and Cemented at 686 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set Feet

If Alternate II completion, cement circulated from

feet depth to w/ sx cmt.

Drilling Fluid Management Plan D&A 07 6-28-00
(Data must be collected from the Reserve Pit)

Chloride content 7,500 ppm Fluid volume 500 bbls

Dewatering method used HAULED TO SWD

Location of fluid disposal if hauled offsite:

Operator Name STAR RESOURCES

Lease Name CURRIER 2-9 License No. 32389

SW Quarter Sec. 20 Twp. 32 S Rng. 18 (E)

County COMANCHE Docket No. D 27668

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature Jon T. Williams, Jr.

Title GEOLOGIST-AGENT Date 6/21/00

Subscribed and sworn to before me this 21 day of JUNE, 19 2000.

Notary Public Patricia S. Armstrong

Date Commission Expires

PATRICIA S. ARMSTRONG
NOTARY PUBLIC
STATE OF KANSAS
MY APPT. EXPIRES 1-9-2004

CONSERVATION DIVISION
K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other (Specify)

Form ACO-1 (7-91)

SIDE TWO

Operator Name IMPERIAL OIL PROPERTIES, INC. Lease Name BERGNER "C" Well # 17-1

Sec. 17 Twp. 32 Rge. 18 East West County COMANCHE COUNTY, KANSAS

MARMATON

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken Yes No
 (Attach Additional Sheets.)

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run Yes No
 (Submit Copy.)

List All E.Logs Run:

DUAL COMPENSATED POROSITY
 DUAL INDUCTION
 MICRORESISTIVITY

<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample		
Name	Top	Datum
HEEBNER	4360	-2206
BROWN LIME	4529	-2375
LANSING	4549	-2395
BASE K.C.	4954	-2800
MARMATON	5016	-2862
PAWNEE	5109	-2955
CHEROKEE SHALE	5150	-2996
MISSISSIPPI	5210	-3056

CASING RECORD New Used
 Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
CONDUCTOR		20"		68'			
SURFACE	12 1/4"	8 5/8"	24#	686'	Common	100	548# CC
					A-Con	140	57#Cell Flake

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type	Acid, Fracture, Shot, Cement Squeeze Record
	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used) Depth

TUBING RECORD Size _____ Set At _____ Packer At _____ Liner Run Yes No

Date of First, Resumed Production, SWD or Inj. _____ Producing Method Flowing Pumping Gas Lift Other (Explain) _____

Estimated Production Per 24 Hours Oil N/A Bbls. Gas N/A Mcf Water N/A Bbls. Gas-Oil Ratio _____ Gravity _____

Disposition of Gas: **METHOD OF COMPLETION** **Production Interval**

Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled _____

(If vented, submit ACO-18.) Other (Specify) D&A _____

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ORIGINAL



INVOICE NO.		Subject to Correction		FIELD ORDER		02477	
Date	6-7-00	Lease	BERGNER "C"	Well #	17-1	Legal	17-325-1EW
Customer ID		County	COMANCHE	State	KS	Station	PRATT, KS

CHARGE	IMPERIAL OIL PROPERTIES, INC.		Depth	Formation	Shoe Joint	
	Casing	Casing Depth	TD	Job Type		
	Customer Representative	RICK SMITH		Treater	KEVIN GARNEY	

AFE Number	PO Number	Materials Received by	X Rick Smith
------------	-----------	-----------------------	--------------

Product Code	QUANTITY	MATERIAL, EQUIPMENT and SERVICES USED	UNIT PRICE	AMOUNT	ACCOUNTING	
					CORRECTION	AMOUNT
D202	135 SACS	60/40 PER CEMENT				
0321	459 LBS	CEMENT GEL				
E107	135 SACS	CEMENT SERVICE CHARGE				
E100	60 miles	UNITS 1/WAY	MILES			
E104	34.25 STATIONS		MILES			
R400	1 EACH	EA. PTA	PUMP CHARGE			
BFD PRICE =				2115.04		
PLUS TAX						

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RELEASED
 JUN 21 2001
 FROM CONFIDENTIAL



Customer ID		Date	
Customer IMPERIAL OIL PROP. INC.		6-7-00	
Lease BERGNER "C"		Lease No.	Well #
Field Order # 02477		Station Pratt, KS	State KS
Type Job PTA - NEW WELL		Casing	Depth
Formation		County COMANCHE	Legal Description 17-32S-18W

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid 1.25 SUS 60/40 PZ	RATE	PRESS	ISIP	
Depth	Depth	From	To	Pre Pad 6% GEL	Max	RELEASED	5 Min.	
Volume	Volume	From	To	Pad KCC	Min		10 Min.	
Max Press	Max Press	From	To	Frac JUN 21 2000	Avg	JUN 21 2000	15 Min.	
Well Connection	Annulus Vol.	From	To	Flush CONFIDENTIAL	HHP Used	FROM CONFIDENTIAL	Annulus Pressure	
Plug Depth	Packer Depth	From	To		Gas Volume		Total Load	

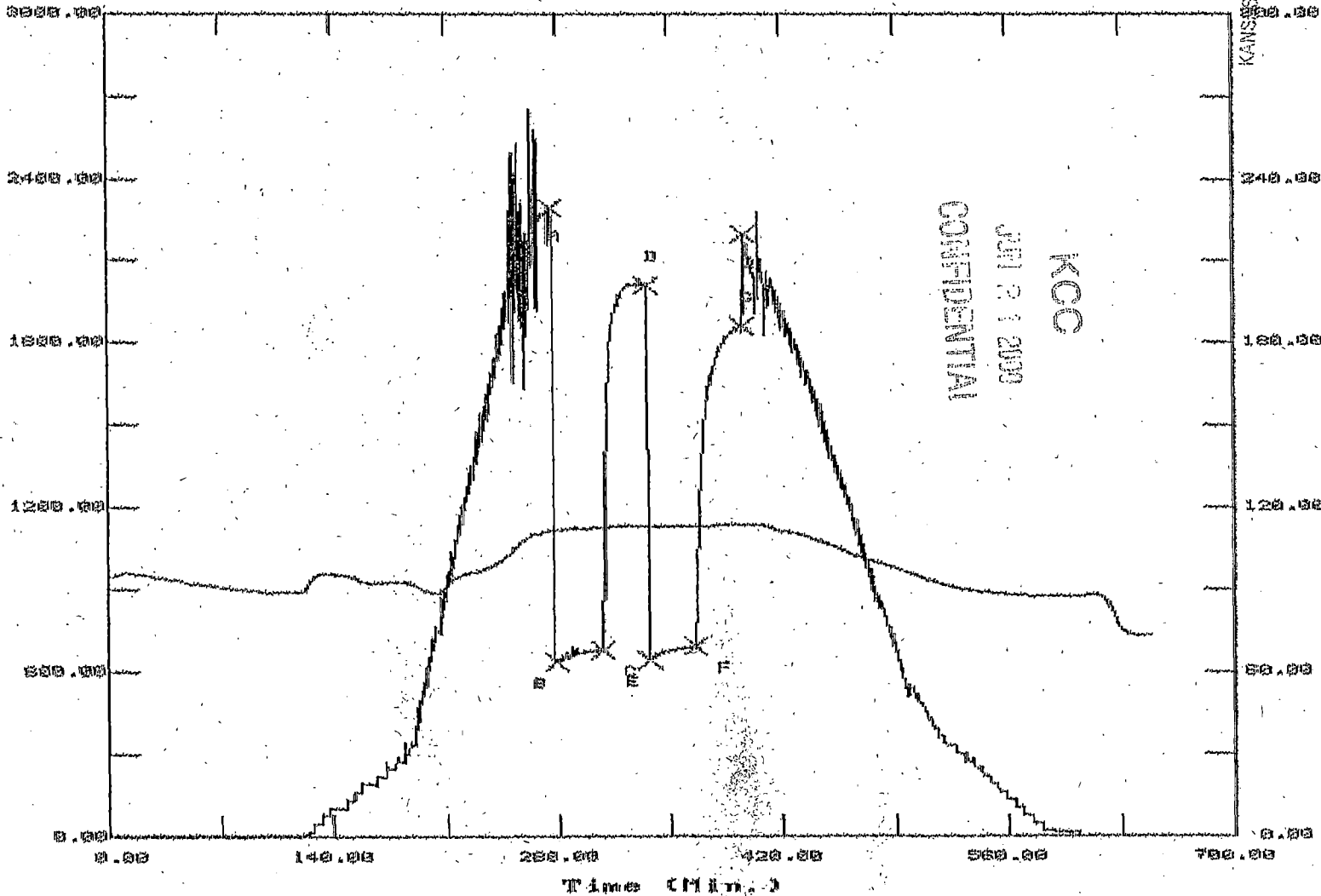
Customer Representative BOB SMITH	Station Manager DAVE AITRY	Treater KEVIN GERARDY		
Service Units	107	23	34	72

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
0500					ON LOCATION TD-5345
0545		200	10	5	1 st PLUG AT 1110' w/50 SUS CEMENT
		200	14	5	PUMP 10 bbl H ₂ O
		200	3	5	14 bbl CEMENT
		200	9	5	3 bbl H ₂ O
					9 bbl MUD
0615		100	10	5	2 nd PLUG AT 700' w/50 SUS. CEMENT
		100	14	5	PUMP 10 bbl H ₂ O
		100	6	5	14 bbl CEMENT
					6 bbl H ₂ O
0800			4	2	3 rd PLUG AT 40' w/10 SUS. CEMENT
			5		CRC. CEMENT TO SURFACE
			4		PLUG RAT HOLE - 15 SUS CEMENT
					PLUG MOUSE HOLE - 10 SUS. CEMENT
0830					JOB COMPLETE
					THANKS - KEVIN

TEST HISTORY

WELL#2043 DST#1 Berwyn "O" 17-1 Imperial Oil, Kansas

Time	Flow Rate
0.00	2240.24
5.00	2240.24
10.00	2240.24
15.00	2240.24
20.00	2240.24
25.00	2240.24
30.00	2240.24
35.00	2240.24
40.00	2240.24
45.00	2240.24
50.00	2240.24
55.00	2240.24
60.00	2240.24
65.00	2240.24
70.00	2240.24
75.00	2240.24
80.00	2240.24
85.00	2240.24
90.00	2240.24
95.00	2240.24
100.00	2240.24
105.00	2240.24
110.00	2240.24
115.00	2240.24
120.00	2240.24
125.00	2240.24
130.00	2240.24
135.00	2240.24
140.00	2240.24
145.00	2240.24
150.00	2240.24
155.00	2240.24
160.00	2240.24
165.00	2240.24
170.00	2240.24
175.00	2240.24
180.00	2240.24
185.00	2240.24
190.00	2240.24
195.00	2240.24
200.00	2240.24
205.00	2240.24
210.00	2240.24
215.00	2240.24
220.00	2240.24
225.00	2240.24
230.00	2240.24
235.00	2240.24
240.00	2240.24
245.00	2240.24
250.00	2240.24
255.00	2240.24
260.00	2240.24
265.00	2240.24
270.00	2240.24
275.00	2240.24
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285.00	2240.24
290.00	2240.24
295.00	2240.24
300.00	2240.24
305.00	2240.24
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315.00	2240.24
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365.00	2240.24
370.00	2240.24
375.00	2240.24
380.00	2240.24
385.00	2240.24
390.00	2240.24
395.00	2240.24
400.00	2240.24
405.00	2240.24
410.00	2240.24
415.00	2240.24
420.00	2240.24
425.00	2240.24
430.00	2240.24
435.00	2240.24
440.00	2240.24
445.00	2240.24
450.00	2240.24
455.00	2240.24
460.00	2240.24
465.00	2240.24
470.00	2240.24
475.00	2240.24
480.00	2240.24
485.00	2240.24
490.00	2240.24
495.00	2240.24
500.00	2240.24
505.00	2240.24
510.00	2240.24
515.00	2240.24
520.00	2240.24
525.00	2240.24
530.00	2240.24
535.00	2240.24
540.00	2240.24
545.00	2240.24
550.00	2240.24
555.00	2240.24
560.00	2240.24
565.00	2240.24
570.00	2240.24
575.00	2240.24
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645.00	2240.24
650.00	2240.24
655.00	2240.24
660.00	2240.24
665.00	2240.24
670.00	2240.24
675.00	2240.24
680.00	2240.24
685.00	2240.24
690.00	2240.24
695.00	2240.24
700.00	2240.24



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 JUN 21 2000
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RECEIVED
 KANSAS CORPORATION COMMISSION

JUN 22 2000

CONSERVATION DIVISION
 WICHITA, KS

FROM CONFIDENTIAL

JUN 21 2001

RELEASED

CONFIDENTIAL ORIGINAL

OPERATOR : Imperial Oil, prop.
WELL NAME: Bergner C-1/-1
LOCATION : sec 17 twp. 32s rge. 18w
INTERVAL : 4352.00 To 4385.00 ft

DATE 05/31/2000
KB 2154.00 ft TICKET NO: 12843 DST #1
GR 2144.00 ft FORMATION: Toronto
TD 4385.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

mins	Field	1	2	3	4	TIME DATA
30	Rec.	10991	10991	2350		PF Fr. 2238 to 2308 hr
30	Range (Psi)	4200.0	4200.0	4495.0	0.0	IS Fr. 2308 to 2338 hr
30	Clock (hrs)	12hr	12hr	elec		SF Fr. 2338 to 0008 hr
30	Depth (ft)	4382.0	4382.0	4358.0	0.0	FS Fr. 0008 to 0038 hr

	Field	1	2	3	4	
A. Init Hydro	0.0	0.0	2293.0	0.0	0.0	T STARTED 1758 hr
B. First Flow	0.0	0.0	633.0	0.0	0.0	T ON BOPM 2235 hr
B1. Final Flow	0.0	0.0	673.0	0.0	0.0	T OPEN 2238 hr
C. in Shut-in	0.0	0.0	2912.0	0.0	0.0	T PULLED 0038 hr
D. Init Flow	0.0	0.0	638.0	0.0	0.0	T OUT 0345 hr
E. Final Flow	0.0	0.0	688.0	0.0	0.0	
F. Pi Shut-in	0.0	0.0	1860.0	0.0	0.0	
G. Final Hydro	0.0	0.0	2197.0	0.0	0.0	
Inside/Outside	0	0	1			

TOOL DATA

Tool Wt.	2100.00 lbs
Wt Set On Packer	20000.00 lbs
Wt Pulled Loose	105000.00 lbs
Initial Str Wt	92000.00 lbs
Unseated Str Wt	98000.00 lbs
Bot Choke	0.75 in
Hole Size	7.88 in
D Col. ID	2.25 in
D. Pipe ID	3.80 in
D.C. Length	607.41 ft
D.P. Length	2744.97 ft

RECOVERY
Tot Fluid 1100.00 ft of 607.00 ft in DC and 493.00 ft in DP

1100.00 ft of drilling mud
0.00 ft of
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 0.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

IF:Weak blow built to 1-1/2" in H2O.

ISI:Blow down for 30 sec.no blow back.

FF:No blow.

PSI:No blow back.

SAMPLES:
SENT TO:

Test Successful: Y

MUD DATA

Mud Type	chemical
Weight	9.20 lb/cf
Vis.	43.00 S/L
M.L.	15.20 in3
F.C.	0.32 in
Mud Drop %	
Amt. of Fill	0.00 ft
Btm. H. Temp.	113.00 F
Hole Condition	fair
% Porosity	0.00
Packer Size	0.75 in
No. of Packers	2
Cushion Amt.	0.00 u
Cushion Type	none
Reversed Out %	
Tool Chased %	
Tester	Darren L. Amerine
Co. Rep.	Jon T. Williams
Contr.	Val Energy
Rig #	2
Unit #	none
Pump #	none

KCC

JUN 2 1 2000

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RELEASED

JUN 2 1 2001

FROM CONFIDENTIAL

ORIGINAL

CONFIDENTIAL

WELL NAME: Bergner "C" 17-1

LOCATION : sec.17 twp.32s rgs.18w

TICKET No. 12843 D.S.T. No. 1 DATE 05/31/200

TOTAL TOOL TO BOTTOM OF TOP PACKERS 31

INTERVAL TOOL 33

BOTTOM PACKERS AND ANCHOR 33

TOTAL TOOL 64

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.Stands10 Single Total 607.41

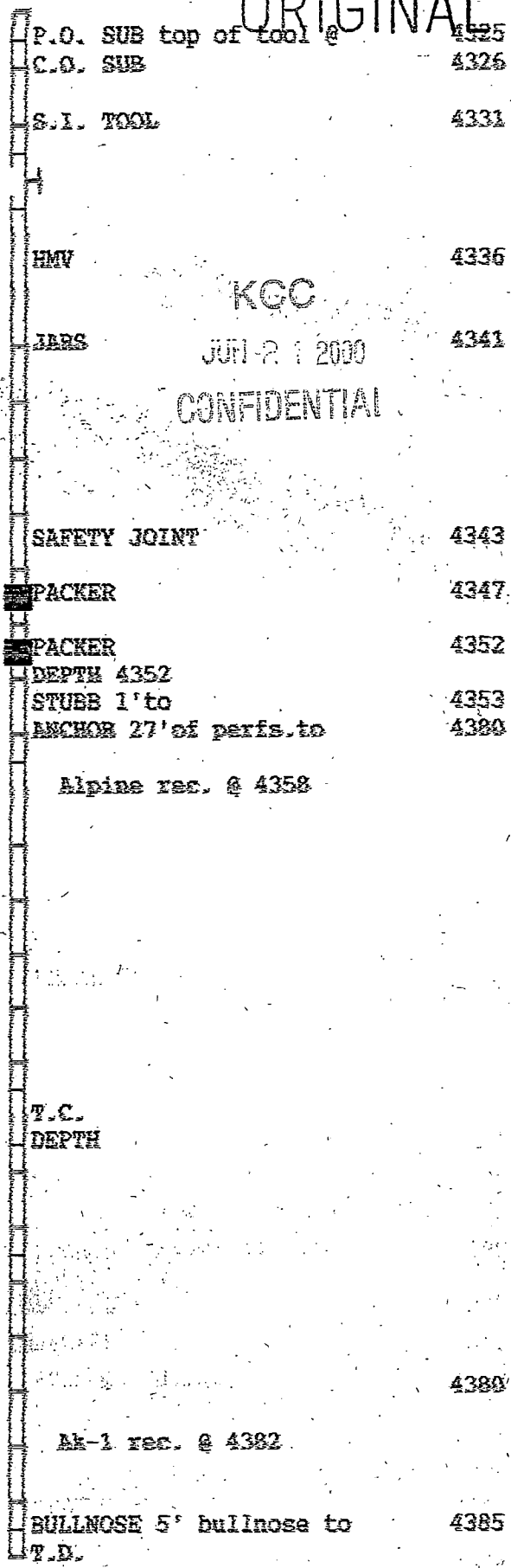
D.P. ABOVE TOOLS.Stands60 Single 1 Total 3744.97

TOTAL DRILL COLLARS DRILL PIPE & TOOLS ... 4416.38

TOTAL DEPTH 4385

TOTAL DRILL PIPE ABOVE K.B. 31.38

REMARKS:



RELEASED

JUN 21 2001

FROM CONFIDENTIAL

WELL NAME: Bergner"C"17-1
 LOCATION : sec.17 twp.32s rge.18w
 TICKET No. 12843 D.S.T. No. 1 DATE 05/31/200
 TOTAL TOOL TO BOTTOM OF TOP PACKERS 31
 INTERVAL TOOL
 BOTTOM PACKERS AND ANCHOR 33
 TOTAL TOOL 64
 DRILL COLLAR ANCHOR IN INTERVAL
 D.C. ANCHOR STND.Stands Single Total
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 TOTAL ASSEMBLY
 D.C. ABOVE TOOLS.Stands10 Single Total 607.41
 D.P. ABOVE TOOLS.Stands60 Single 1 Total 3744.97
 TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4416.38
 TOTAL DEPTH 4385
 TOTAL DRILL PIPE ABOVE K.B. 31.38
 REMARKS:

P.O. SUB top of tool @ 4325
 C.O. SUB 4326
 S.I. TOOL 4331
 HMV 4336
 JARS 4341
 SAFETY JOINT 4343
 PACKER 4347
 PACKER 4352
 DEPTH 4352
 STUBB 1' to 4353
 ANCHOR 27' of perfs. to 4380
 Alpine rec. @ 4358
 T.C
 DEPTH

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5/31/75

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JUN 21 2001

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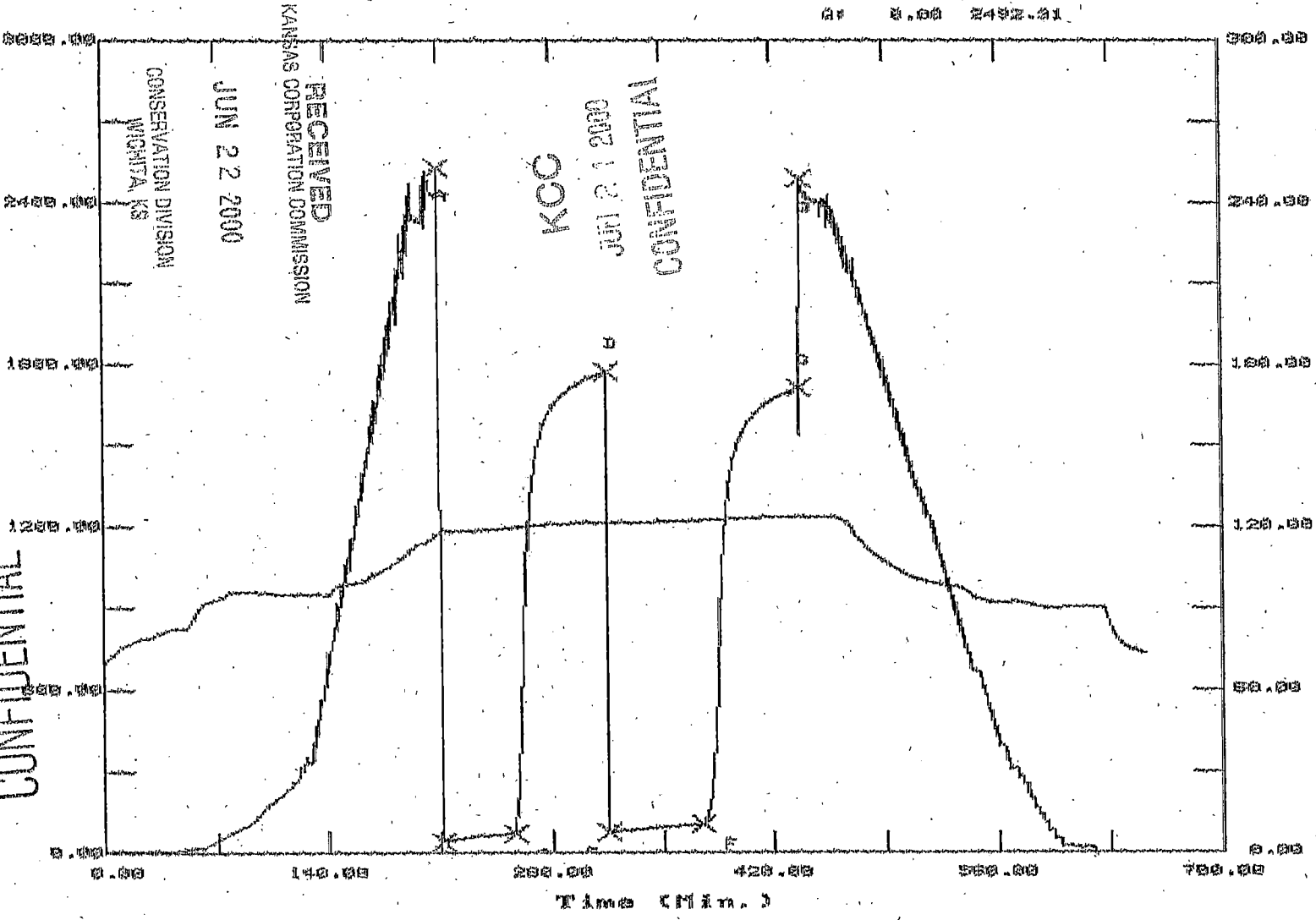
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Time	Point
00.00	1
05.00	2
10.00	3
15.00	4
20.00	5
25.00	6
30.00	7
35.00	8
40.00	9
45.00	10
50.00	11
55.00	12
60.00	13
65.00	14
70.00	15
75.00	16
80.00	17
85.00	18
90.00	19
95.00	20
100.00	21
105.00	22
110.00	23
115.00	24
120.00	25
125.00	26
130.00	27
135.00	28
140.00	29
145.00	30
150.00	31
155.00	32
160.00	33
165.00	34
170.00	35
175.00	36
180.00	37
185.00	38
190.00	39
195.00	40
200.00	41
205.00	42
210.00	43
215.00	44
220.00	45
225.00	46
230.00	47
235.00	48
240.00	49
245.00	50
250.00	51
255.00	52
260.00	53
265.00	54
270.00	55
275.00	56
280.00	57
285.00	58
290.00	59
295.00	60
300.00	61
305.00	62
310.00	63
315.00	64
320.00	65
325.00	66
330.00	67
335.00	68
340.00	69
345.00	70
350.00	71
355.00	72
360.00	73
365.00	74
370.00	75
375.00	76
380.00	77
385.00	78
390.00	79
395.00	80
400.00	81
405.00	82
410.00	83
415.00	84
420.00	85
425.00	86
430.00	87
435.00	88
440.00	89
445.00	90
450.00	91
455.00	92
460.00	93
465.00	94
470.00	95
475.00	96
480.00	97
485.00	98
490.00	99
495.00	100

TEST HISTORY

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RECEIVED
 JUN 22 2000
 KANSAS CORPORATION COMMISSION
 CONSERVATION DIVISION
 WICHITA, KS

KCC
 JUN 21 2000
 CONFIDENTIAL

Time (Min.)

CONFIDENTIAL

WELL NAME: Bergner "C" #17-1

LOCATION : sec.17 Twp.32s Rge.18w

TICKET No. 12844 D.S.T. No. 2 DATE 06/03/200

TOTAL TOOL TO BOTTOM OF TOP PACKERS 31

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 44

TOTAL TOOL 75

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STMD.Stands Single Total

D.P. ANCHOR STMD.Stands Single Total

TOTAL ASSEMBLY

D.C. ABOVE TOOLS.Stands10 Single Total 607.41

D.P. ABOVE TOOLS.Stands72 Single 1 Total 4477.59

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5160

TOTAL DEPTH 5134

TOTAL DRILL PIPE ABOVE K.B. 25

REMARKS:

RELEASED

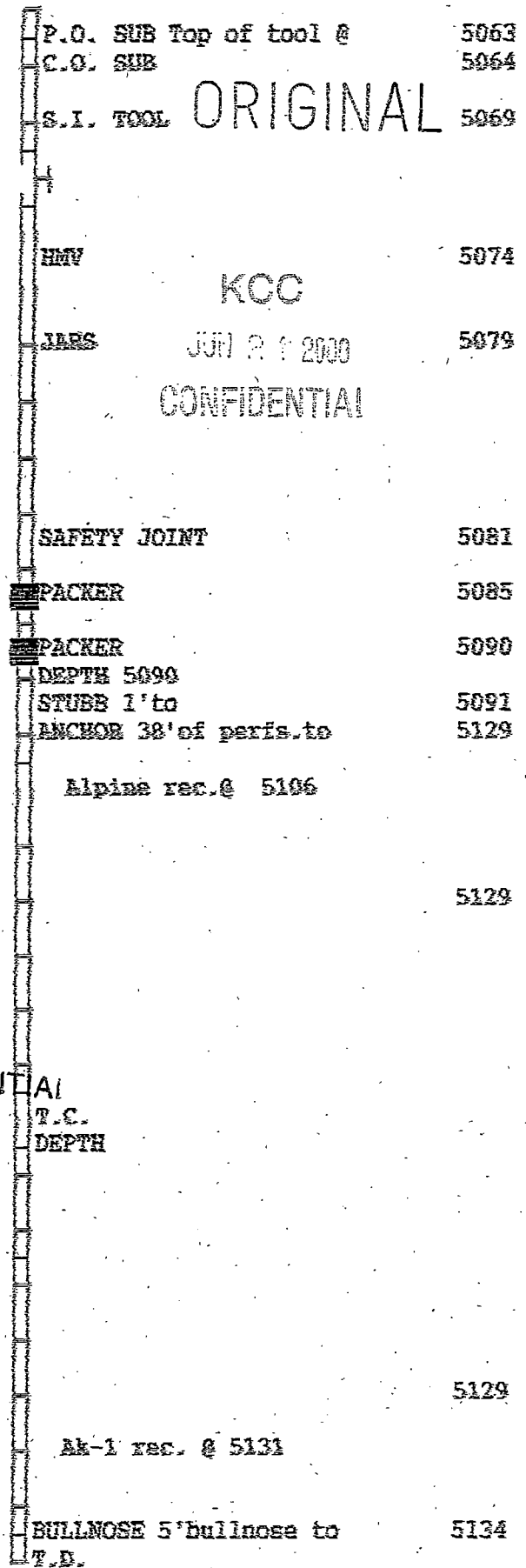
JUN 2 1 2001

FROM CONFIDENTIAL

CONFIDENTIAL

JUN 2 1 2001

KCC



ORIGINAL

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TRILORITE TESTING L.L.C.

ORIGINAL

OPERATOR : Imperial oil,prop.
WELL NAME: Bergner "C" #17-1
LOCATION : sec.17 twp.32s rge.18w
INTERVAL : 5090.00 To 5134.00 ft

DATE 06/03/200

KB 2154.00 ft TICKET NO: 12844 DST #2
GR 2144.00 ft FORMATION: Pawnee
TD 5134.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Wino	Field	1	2	3	4	TIME DATA	
PF 45	Rec.	10991	10991	2350		PF Fr. 1646 to 1731 hr	
SI 60	Range(Psi)	4200.0	4200.0	4995.0	0.0	0.0	IS Fr. 1731 to 1831 hr
SF 60	Clock(hrs)	12hr.	12hr.	elec.			SF Fr. 1831 to 1931 hr
FS 60	Depth(ft)	5131.0	5131.0	5106.0	0.0	0.0	FS Fr. 1931 to 2031 hr

	Field	1	2	3	4		
A.	Init Hydro	2513.0	0.0	2530.0	0.0	0.0	T STARTED 1312 hr
B.	First Flow	53.0	0.0	37.0	0.0	0.0	T ON BOTM 1643 hr
Bl.	Final Flow	53.0	0.0	69.0	0.0	0.0	T OPEN 1646 hr
C.	In Shut-in	1755.0	0.0	1773.0	0.0	0.0	T PULLED 2031 hr
D.	Init Flow	85.0	0.0	74.0	0.0	0.0	T OUT 2315 hr
E.	Final Flow	85.0	0.0	101.0	0.0	0.0	
F.	Fl Shut-in	1692.0	0.0	1713.0	0.0	0.0	TOOL DATA
G.	Final Hydro	2502.0	0.0	2493.0	0.0	0.0	Tool Wt. 2100.00 lbs
	Inside/Outside	0	0	1			Wt Set On Packer 20000.00 lbs
							Wt Pulled Loose 115000.00 lbs
							Initial Str Wt 98000.00 lbs
							Unseated Str Wt 98000.00 lbs
							Bot Choke 0.75 in
							Hole Size 7.88 in
							D Col. ID 2.25 in
							D. Pipe ID 3.80 in
							D.C. Length 607.41 ft
							D.P. Length 4477.51 ft

RECOVERY

Tot Fluid 130.00 ft of 130.00 ft in DC and 0.00 ft in DP
130.00 ft of SMCW 15% mud 85% 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
0.00 ft of

SALINITY 38000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

IF:Weak blow built to

ISI:Blad down for 30 sec.no blow back.

FF:Dead blow.

FSI:No blow back.

SAMPLES: Caraway Analytical
SENT TO:Liberal,Ks.67901

Test Successful: Y

KCC

JUN 2 1 2000

CONFIDENTIAL

RELEASED

JUN 2 1 2001

FROM CONFIDENTIAL

MUD DATA

Mud Type	Chemical
Weight	9.10 lb/cf
Vis.	47.00 S/L
W.L.	9.60 in3
F.C.	0.32 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	124.00 F
Hole Condition	fair
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00 n
Cushion Type	none
Reversed Out N	
Tool Chased N	
Tester	Darren L.Amerine
Co. Rep.	Jon T.Williams
Contr.	Val Energy
Rig #	2
Unit #	none
Pump T.	none

CONFIDENTIAL

ORIGINAL

RELEASED

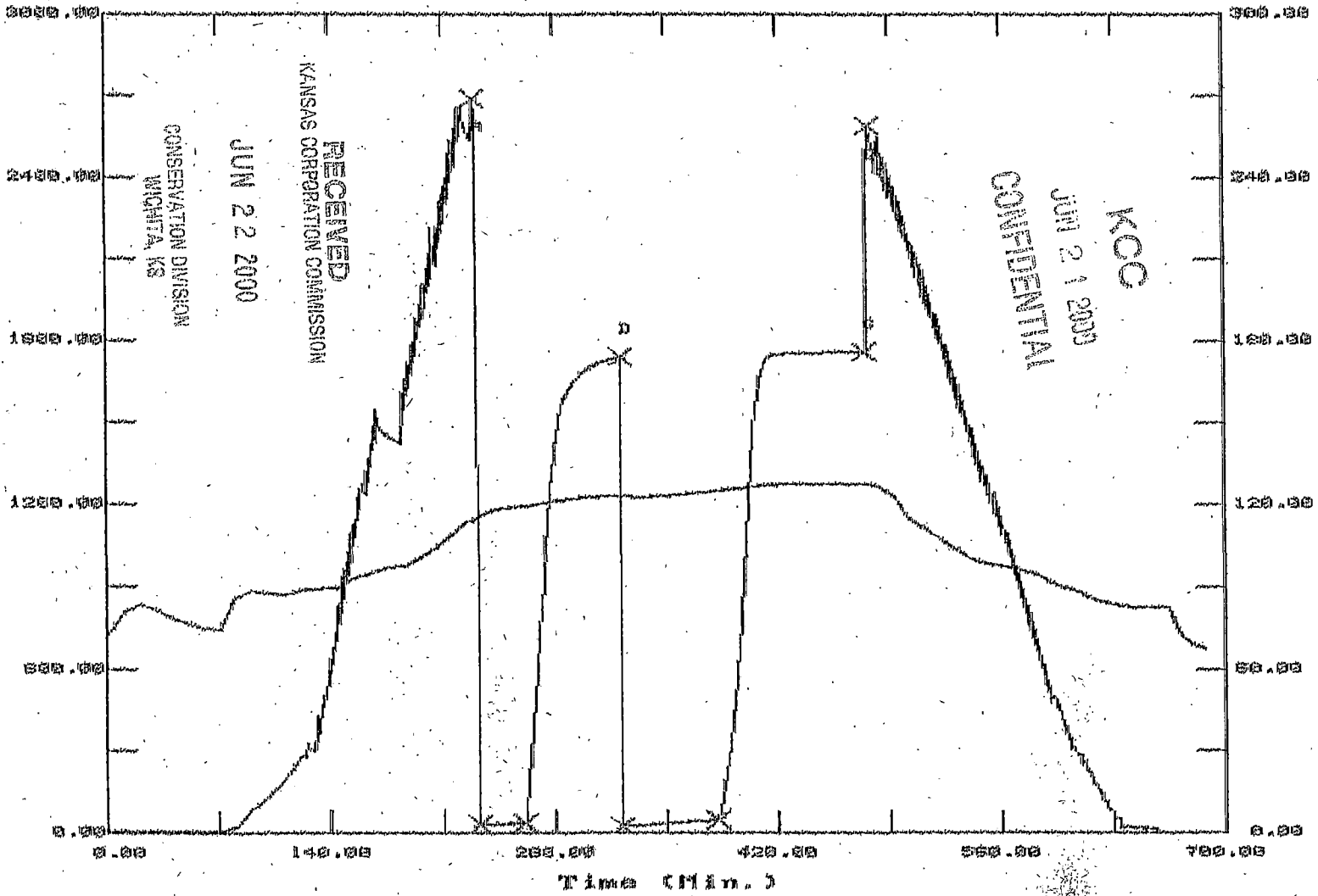
JUN 2 1 2001

(4 581) amptaramat

FROM CONFIDENTIAL

TEST HISTORY

Time (min)	Temp (°C)	Temp (°F)
00.00	22.00	72.00
01.00	22.00	72.00
02.00	22.00	72.00
03.00	22.00	72.00
04.00	22.00	72.00
05.00	22.00	72.00
06.00	22.00	72.00
07.00	22.00	72.00
08.00	22.00	72.00
09.00	22.00	72.00
10.00	22.00	72.00
11.00	22.00	72.00
12.00	22.00	72.00
13.00	22.00	72.00
14.00	22.00	72.00
15.00	22.00	72.00
16.00	22.00	72.00
17.00	22.00	72.00
18.00	22.00	72.00
19.00	22.00	72.00
20.00	22.00	72.00
21.00	22.00	72.00
22.00	22.00	72.00
23.00	22.00	72.00
24.00	22.00	72.00
25.00	22.00	72.00
26.00	22.00	72.00
27.00	22.00	72.00
28.00	22.00	72.00
29.00	22.00	72.00
30.00	22.00	72.00
31.00	22.00	72.00
32.00	22.00	72.00
33.00	22.00	72.00
34.00	22.00	72.00
35.00	22.00	72.00
36.00	22.00	72.00
37.00	22.00	72.00
38.00	22.00	72.00
39.00	22.00	72.00
40.00	22.00	72.00
41.00	22.00	72.00
42.00	22.00	72.00
43.00	22.00	72.00
44.00	22.00	72.00
45.00	22.00	72.00
46.00	22.00	72.00
47.00	22.00	72.00
48.00	22.00	72.00
49.00	22.00	72.00
50.00	22.00	72.00
51.00	22.00	72.00
52.00	22.00	72.00
53.00	22.00	72.00
54.00	22.00	72.00
55.00	22.00	72.00
56.00	22.00	72.00
57.00	22.00	72.00
58.00	22.00	72.00
59.00	22.00	72.00
60.00	22.00	72.00
61.00	22.00	72.00
62.00	22.00	72.00
63.00	22.00	72.00
64.00	22.00	72.00
65.00	22.00	72.00
66.00	22.00	72.00
67.00	22.00	72.00
68.00	22.00	72.00
69.00	22.00	72.00
70.00	22.00	72.00
71.00	22.00	72.00
72.00	22.00	72.00
73.00	22.00	72.00
74.00	22.00	72.00
75.00	22.00	72.00
76.00	22.00	72.00
77.00	22.00	72.00
78.00	22.00	72.00
79.00	22.00	72.00
80.00	22.00	72.00
81.00	22.00	72.00
82.00	22.00	72.00
83.00	22.00	72.00
84.00	22.00	72.00
85.00	22.00	72.00
86.00	22.00	72.00
87.00	22.00	72.00
88.00	22.00	72.00
89.00	22.00	72.00
90.00	22.00	72.00
91.00	22.00	72.00
92.00	22.00	72.00
93.00	22.00	72.00
94.00	22.00	72.00
95.00	22.00	72.00
96.00	22.00	72.00
97.00	22.00	72.00
98.00	22.00	72.00
99.00	22.00	72.00
100.00	22.00	72.00



0120046 DATA Basemax '0' #14-1 Imperial oil, 00.00

*** TOOL DIAGRAM *** CONVENTIONAL

CONFIDENTIAL

ORIGINAL

WELL NAME: Bergner "C" #17-1

LOCATION : sec.17 twp.32s rge.18w

TICKET No. 12846 D.S.T. No. 4 DATE 06/05/200

TOTAL TOOL TO BOTTOM OF TOP PACKERS 31

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 20

TOTAL TOOL 51

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.Stands10 Single Total 607.41

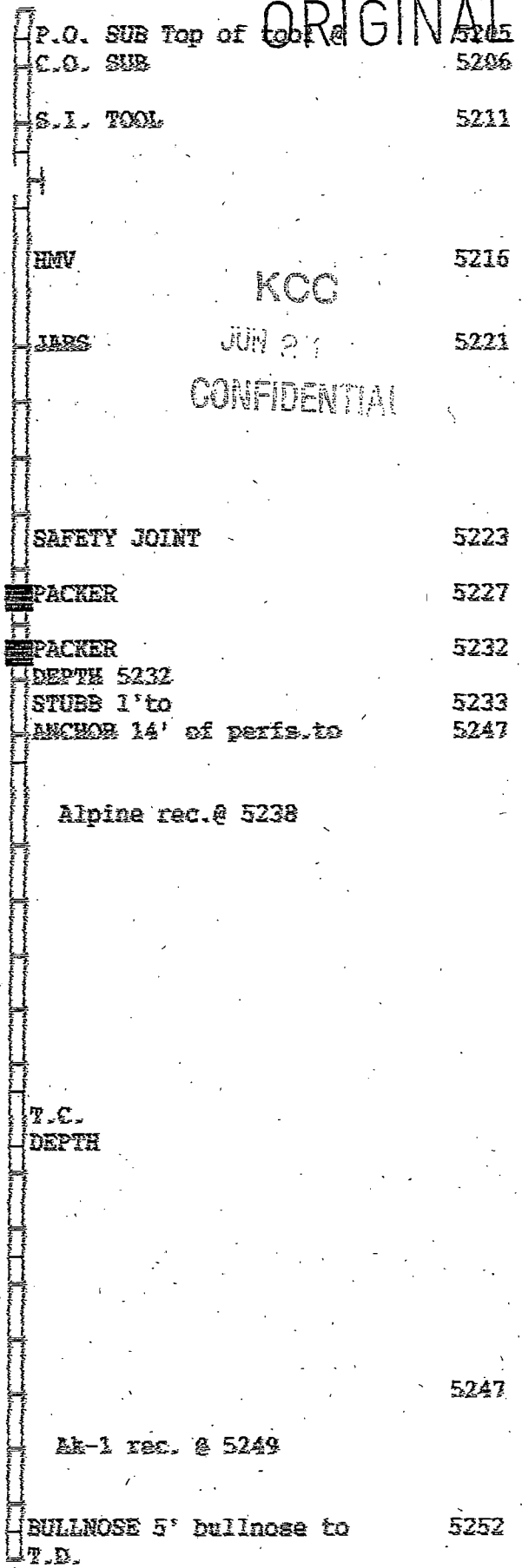
D.P. ABOVE TOOLS.Stands74 Single 1 Total 4602.59

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5261

TOTAL DEPTH 5252

TOTAL DRILL PIPE ABOVE K.B. 9

REMARKS:



RELEASED

JUN 21 2001

FROM CONFIDENTIAL

TRILOBITE TESTING L.L.C.

CONFIDENTIAL

OPERATOR : Imperial oil prop.
 WELL NAME: Bergner "C" #17-1
 LOCATION : sec 17 twp. 32s rge. 18w
 INTERVAL : 5232.00 To 5252.00 ft

DATE 06/05/200
 KB 2154.00 ft TICKET NO: 12846 DST #4
 GR 2144.00 ft FORMATION: Miss.
 TD 5252.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA
PP 30 Rec.	10991	10991	2350			PP Fr. 1637 to 1707 hr
SI 60 Range(Psi)	4200.0	4200.0	4995.0	0.0	0.0	IS Fr. 1707 to 1807 hr
SP 60 Clock(hrs)	12hr	12hr	elec.			SE Fr. 1807 to 1907 hr
FS 90 Depth(ft)	5249.0	5249.0	5238.0	0.0	0.0	FS Fr. 1907 to 2037 hr

	Field	1	2	3	4
A. Init Hydro	2680.0	0.0	2690.0	0.0	0.0
Bl. First Flow	32.0	0.0	27.0	0.0	0.0
Bl. Final Flow	32.0	0.0	33.0	0.0	0.0
C. in Shut-in	1703.0	0.0	1740.0	0.0	0.0
D. Init Flow	32.0	0.0	19.0	0.0	0.0
E. Final Flow	21.0	0.0	43.0	0.0	0.0
F. Fl Shut-in	1734.0	0.0	1759.0	0.0	0.0
G. Final Hydro	2659.0	0.0	2590.0	0.0	0.0
Inside/Outside	0	0	1		

T STARTED 1240 hr
 T ON BOTM 1634 hr
 T OPEN 1637 hr
 T PULLED 2037 hr
 T OUT 2330 hr

TOOL DATA
 Tool Wt. 2100.00 lbs
 Wt Set On Packer 20000.00 lbs
 Wt Pulled Loose 105000.00 lbs
 Initial Str Wt 98000.00 lbs
 Unseated Str Wt 98000.00 lbs
 Bot Choke 0.75 in
 Hole Size 7.68 in
 D Col. ID 2.25 in
 D. Pipe ID 3.50 in
 D.C. Length 607.41 ft
 D.P. Length 4602.59 ft

RECOVERY
 Tot Fluid 0.00 ft of 0.00 ft in DC and 0.00 ft in DP

0.00 ft of
 0.00 ft of
 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 0.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

IF: Fair blow b.o.b in 3 mins.
 ISI: Bled down for 3 mins.
 FF: Strong blow b.o.b in 10 sec.
 FSI: Bled down for 5 mins. no blow back.

MUD DATA

Mud Type Chemical
 Weight 8.30 lb/cf
 Vis. 47.00 s/L
 W.L. 12.00 in3
 P.C. 0.32 in
 Mud Drop N
 Amt. of fill 0.00 ft
 Btm. H. Temp. 127.00 F
 Hole Condition fair
 % Porosity 0.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00 n
 Cushion Type none
 Reversed Out N
 Tool Chased N
 Tester Darren L. Amerine
 Co. Rep. Jon T. Williams
 Contr. Val Energy
 Rig # 2
 Unit # none
 Pump T. none

Test Successful: Y

CONFIDENTIAL

TRILOBITE TESTING L.L.C.

ORIGINAL

OPERATOR : Imperial oil,prop.
WELL NAME: Berger "C" #17-1
LOCATION : sec.17 twp.32s rge.18w
INTERVAL : 5232.00 To 5252.00 ft

DATE 06/05/200

KB 2154.00 ft TICKET NO: 11846 EST #4
GR 2144.00 ft FORMATION: Miss.
TD 5252.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----	
PF 30	Rec.	10991	10991	2350		PF Fr. 1637 to 1707 hr	
SI 60	Range(Psi)	4200.0	4200.0	4995.0	0.0	0.0	IS Fr. 1707 to 1807 hr
SF 60	Clock(hrs)	12hr.	12hr.	elec.			SF Fr. 1807 to 1907 hr
PS 90	Depth(ft)	5249.0	5249.0	5238.0	0.0	0.0	PS Fr. 1907 to 2037 hr

	Field	1	2	3	4	
A. Init Hydro	2688.0	0.0	2690.0	0.0	0.0	T STARTED 1240 hr
B. First Flow	32.0	0.0	27.0	0.0	0.0	T ON BOTM 1634 hr
B1. Final Flow	32.0	0.0	33.0	0.0	0.0	T OPEN 1637 hr
C. In Shut-in	1703.0	0.0	1740.0	0.0	0.0	T PULLED 2037 hr
D. Init Flow	32.0	0.0	19.0	0.0	0.0	T OUT 2330 hr
E. Final Flow	21.0	0.0	43.0	0.0	0.0	
F. Fl Shut-in	1734.0	0.0	1759.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2659.0	0.0	2590.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	0	0	1			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 105000.00 lbs
						Initial Str Wt 98000.00 lbs
						Unseated Str Wt 98000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 607.41 ft
						D.P. Length 4602.59 ft

RECOVERY

Tot Fluid 65.00 ft of 65.00 ft in DC and 0.00 ft in DP
65.00 ft of SGCWM 10%gas 50%water 40% mud
2234.00 ft of gas in pipe
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of

SALINITY 40000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

IF:Fair blow b.o.b in 3 mins.

ISI:Bled down for 3 mins.

FF:Strong blow b.o.b in 10 sec.

FSI:Bled down for 5 mins.no blow back.

SAMPLES:

SENT TO:

KCC

JUN 2 1 2000

CONFIDENTIAL

RELEASED

JUN 2 1 2001

FROM CONFIDENTIAL

Test Successful: Y

MUD DATA-----

Mud Type Chemical
Weight 9.30 lb/cf
Vis. 47.00 S/L
W.L. 12.80 in3
F.C. 0.32 in
Mud Drop N

Amt. of fill 0.00 ft
Btm. H. Temp. 127.00 F
Hole Condition fair
% Porosity 0.00
Packer Size 6.75 in
No. of Packers 2
Cushion Amt. 0.00 n
Cushion Type none
Reversed Out N
Tool Chased N
Tester Darren L.Amerine
Co. Rep. Jon T.Williams
Contr. Val Energy
Rig # 2
Unit # none
Pump T. none

CONFIDENTIAL

RELEASED

JUN 2 1 2001

ORIGINAL

FROM CONFIDENTIAL
(1990) ampere

KCC

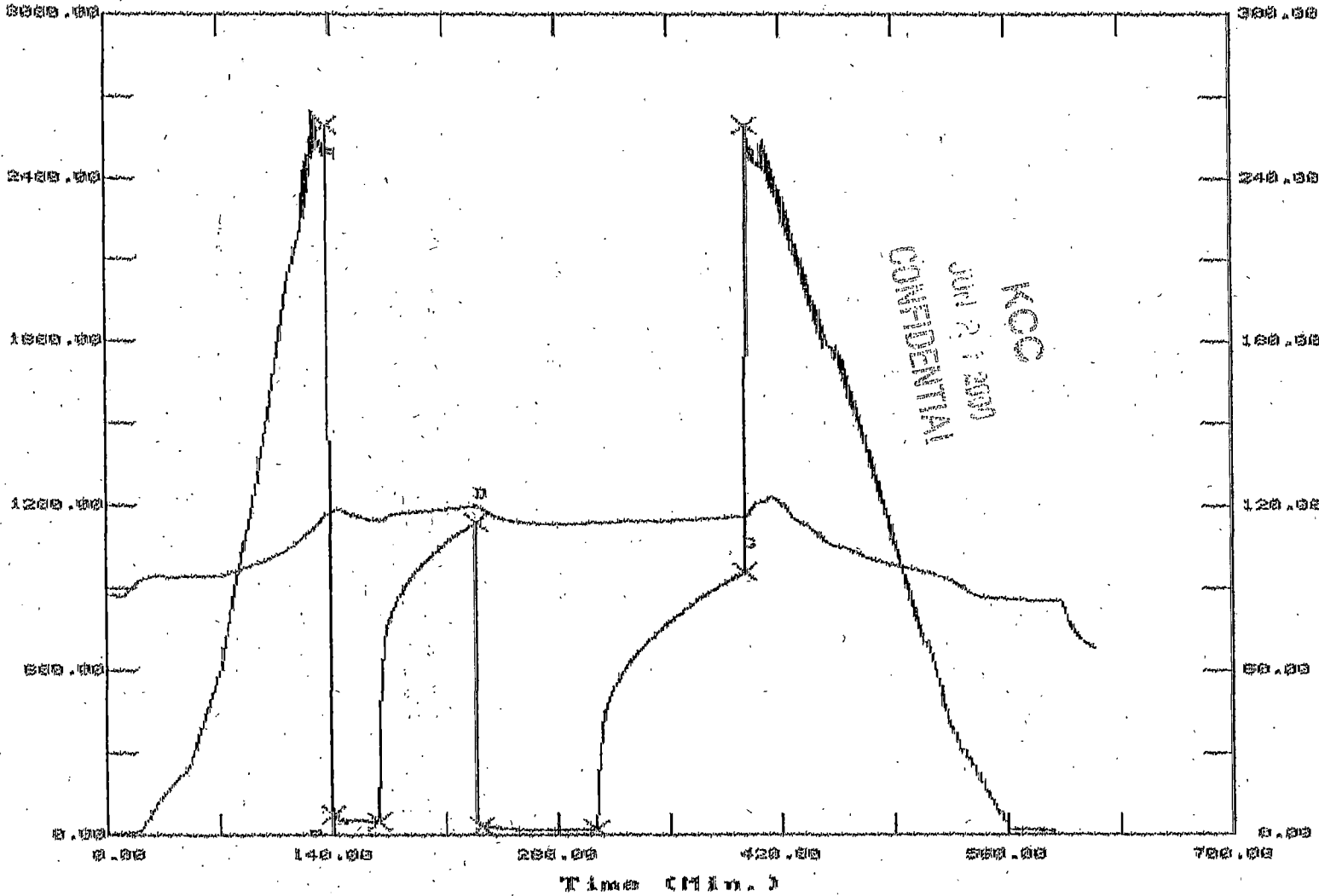
JUN 2 1 2001

CONFIDENTIAL

TEST HISTORY

Imperial Oil, Ltd., 110, King Street West, Toronto, Ontario

Time (min)	Temp (°C)	Temp (°F)
0	25	77
140	25	77
200	25	77
420	25	77
500	25	77
700	25	77



CONFIDENTIAL GAS RECOVERY

ORIGINAL

COMPANY: Imperial oil prop.
WELL NAME: Bergner "C" #17-1
WELL LOCATION: sec.17 Twp.32s rge.18w

DATE: 06/04/2000
KB Elev: 2154.00 ft TICKET #12845 DST #3
GR Elev: 2144.00 ft FORMATION: Miss.

INTERVAL Fr.: 5210.00 To 5232.00 T.D.: 5232.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Merla Gauge

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
11	0.38	10	0	65300.0
16	0.38	12	0	72600.0
21	0.38	12	0	72600.0

***** GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
26	0.38	10	0	65300.0

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
5	0	0	0	53200.0
10	0	0	0	55300.0
15	0	0	0	48800.0
20	0	0	0	39000.0
25	0	0	0	33500.0
30	0	0	0	26200.0
35	0	0	0	23100.0
40	0	0	0	21300.0
45	0	0	0	11900.0
50	0	0	0	12700.0
55	0	0	0	12700.0
60	0	0	0	12700.0
65	0	0	0	12700.0
70	0	0	0	12700.0
75	0	0	0	12700.0

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JUN 21 2000

CONFIDENTIAL

RELEASED

JUN 21 2001

FROM CONFIDENTIAL

CONFIDENTIAL

ORIGINAL

OPERATOR : Internal #11 drop
WELL NAME: Belinger "C" #17-1
LOCATION : sec. 17 twp. 32s. rge. 18w
INTERVAL : 5210.00 To 5232.00 ft

DATE 05/04/200
KB 2154.00 ft
GR 2144.00 ft
TD 5232.00 ft
TICKET NO: 12845 DST #3
FORMATION: Miss.
TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4
PF 30 Rec.	10991	10991	2350		
SI 60 Range(Psi)	4200.0	4200.0	4995.0	0.0	0.0
SP 75 Clock(hrs)	12hr	12hr	elec		
FS 90 Depth(ft)	5229.0	5229.0	5216.0	0.0	0.0

TIME DATA

PF Fr.	1727	to	1757	hr
IS Fr.	1757	to	1857	hr
SF Fr.	1857	to	2012	hr
FS Fr.	2012	to	2142	hr

	Field	1	2	3	4
A. Init Hydro	2596.0	0.0	2596.0	0.0	0.0
B. First Flow	43.0	0.0	72.0	0.0	0.0
Bl. Final Flow	21.0	0.0	46.0	0.0	0.0
C. In Shut-in	1098.0	0.0	1138.0	0.0	0.0
D. Init Flow	11.0	0.0	30.0	0.0	0.0
E. Final Flow	11.0	0.0	19.0	0.0	0.0
F. FI Shut-in	906.0	0.0	959.0	0.0	0.0
G. Final Hydro	2554.0	0.0	2597.0	0.0	0.0
Inside/Outside	0)	1		

T

STARTED	1504	hr
ON BOTM	1724	hr
OPEN	1727	hr
PULLED	2142	hr
OUT	0045	hr

TOOL DATA

Tool Wt.	2100.00	lbs
Wt Set On Packer	20000.00	lbs
Wt Pulled Loose	105000.00	lbs
Initial Str Wt	98000.00	lbs
Unseated Str Wt	98000.00	lbs
Bot Choke	0.75	in
Hole Size	7.88	in
D. Col. ID	2.25	in
D. Pipe ID	3.80	in
D.C. Length	607.41	ft
D.P. Length	4600.59	ft

RECOVERY
Tot Fluid 0.50 ft of 0.50 ft in DC and 0.00 ft in DP

0.50 ft of WCM 35% water 65% mud
5207.50 ft of gas in pipe

0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of

SALINITY 10000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

IF: Strong
min. gauge gas.

ISI: Bled down for 10 mins. no blow back.

FF: Strong blow b.o.b in 10 sec, gauge gas

FSI: Bled down for 5 mins. no blow back.

SAMPLES: Caraway analytical 728 N. Roosevelt
SENT TO: Liberal, Ks 67901

Test Successful: Y

KCC

JUN 2 1 2000

CONFIDENTIAL

MUD DATA

Mud Type	Chemical
Weight	8.30 lb/cf
Vis.	58.00 S/L
W.L.	12.00 in3
F.C.	0.32 in
Mud Drop N	

Amt. of fill	0.00	ft
Btm. H. Temp.	124.00	F
Hole Condition	Good	
% Porosity	0.00	
Packer Size	6.75	in
No. of Packers	2	
Cushion Amt.	0.00	n
Cushion Type	none	
Reversed Out N		
Tool Chased N		
Tester	Darren L. Amerine	
Co. Rep.	Jon T. Williams	
Contr.	Val Energy	
Rig #	2	
Unit #	none	
Pump #	none	

RELEASED

JUN 2 1 2001

FROM CONFIDENTIAL

CONFIDENTIAL

*** TOOL DIAGRAM *** CONVENTIONAL

ORIGINAL

WELL NAME: Bergher "C" #17-1
 LOCATION : sec.17 twp.32s rge.18w
 TICKET No. 12845 D.S.T. No. 3 DATE 06/04/200
 TOTAL TOOL TO BOTTOM OF TOP PACKERS 31
 INTERVAL TOOL
 BOTTOM PACKERS AND ANCHOR 22
 TOTAL TOOL 53
 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.Stands10 Single Total 607.41
 D.P. ABOVE TOOLS.Stands74 Single 1 Total 4600.59
 TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5261
 TOTAL DEPTH 5232
 TOTAL DRILL PIPE ABOVE K.B. 29
 REMARKS:

P.O. SUB Top of tool @	5183
C.O. SUB	5184
S.I. TOOL	5189
HMV	5194
JARS	5199
SAFETY JOINT	5201
PACKER	5205
PACKER	5210
DEPTH 5210	5211
STUBB 1' to	5227
ANCHOR 16' of perms.to	
Alpin rec. @ 5216	
T.C. DEPTH	
5227	
Ak-1 rec. @ 5229	
BULLNOSE 5' bullnose to	5232
T.D.	

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 JUN 21 2000
 CONFIDENTIAL

RELEASED
 JUN 21 2001
 FROM CONFIDENTIAL