

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

API NO. 15- 081-21308-00-00 ORIGINAL

Operator: License # 5293

County Haskell

Name: Helmerich & Payne, Inc.

- W/2 - E/2 - SE/4 Sec. 12 Twp. 27S Rge. 34 X W

Address 1579 E. 21st Street

1320 Feet from S/N (circle one) Line of Section

City/State/Zip Tulsa, OK 74114

830 Feet from E/W (circle one) Line of Section

Purchaser: \_\_\_\_\_

Footages Calculated from Nearest Outside Section Corner:  
NE, SE, NW or SW (circle one)

Operator Contact Person: Sharon LaValley

Lease Name Government B Well # 4

Phone (918) 742-5531

Field Name Pleasant Prairie

Contractor: Name: Cheyenne Drilling

Producing Formation Chester

License: 5382

Elevation: Ground 2953' KB 2959'

Wellsite Geologist: \_\_\_\_\_

Total Depth 5350' PBDT 5298

Designate Type of Completion

Amount of Surface Pipe Set and Cemented at 1895 Feet

New Well  Re-Entry  Workover

Multiple Stage Cementing Collar Used?  Yes  No

Oil  SWD  SLOW  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSW, Expl., Cathodic, etc)

If yes, show depth set 3123 Feet

If Alternate II completion, cement circulated from \_\_\_\_\_

feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

If Workover:

Drilling Fluid Management Plan ALT 1 DPW 5-7-01  
(Data must be collected from the Reserve Pit)

Operator: \_\_\_\_\_

Chloride content 2000 ppm Fluid volume 480 bbls

Well Name: \_\_\_\_\_

De-watering method used Evaporation/Hauling to SWD

Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Deepening  Re-perf.  Conv. /SWD  
 Plug Back  PBDT  
 Commingled  Docket No. \_\_\_\_\_  
 Dual Completion  Docket No. \_\_\_\_\_  
 Other (SWD or Inj?)  Docket No. \_\_\_\_\_

Operator Name Helmerich & Payne, Inc.

Lease Name SWD #1 License No. 5293

08/11/00 08/20/00 10/18/00  
Spud Date or Date Reached TD Completion Date or  
Recompletion Date Recompletion Date

Quarter 29 Twp. 26 S Rng. 34 E/W

County Finney Docket No. \_\_\_\_\_

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 Sharon LaValley  
Title Engineer Tech Date 1-22-01  
Subscribed and sworn to before me this 22nd day of January,  
2001.  
Notary Public Teresa Jayne Hauder  
Date Commission Expires August 17, 2002

Deny K.C.C. OFFICE USE ONLY 2-1-01 DPW  
F  Letter of Confidentiality Attached  
C  Wireline Log Received  
C  Geologist Report Received  
Distribution  
 KCC  SWD/Rep  NGPA  
 KGS  Plug  Other  
(Specify)

Operator Name Helmerich & Payne, Inc. Lease Name Government B Well # 4  
 East County Haskell  
 Sec. 12 Twp. 27S Rge. 34  West

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 <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Attach Additional Sheets.)  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Submit Copy.)  List All E.Logs Run:  Neutron, DIL, Sonic, Microlog	<input type="checkbox"/> Log Formation (Top), Depth and Datums <input type="checkbox"/> Sample <table border="0" style="width:100%"> <tr> <td>Name</td> <td>Top</td> <td>Datum</td> </tr> <tr> <td>Heeber Shale</td> <td>3955'</td> <td>-991'</td> </tr> <tr> <td>Lansing</td> <td>3999'</td> <td>-1006'</td> </tr> <tr> <td>Kansas City "A"</td> <td>4451'</td> <td>-1487'</td> </tr> <tr> <td>Base Kansas City</td> <td>4578'</td> <td>-1614'</td> </tr> <tr> <td>Marmaton</td> <td>4599'</td> <td>-1635'</td> </tr> <tr> <td>Atoka</td> <td>4957'</td> <td>-1993'</td> </tr> <tr> <td>Morrow Shale</td> <td>5015'</td> <td>-2051'</td> </tr> <tr> <td>St. Genevieve</td> <td>5221'</td> <td>-2257'</td> </tr> <tr> <td>St. Louis</td> <td>5290'</td> <td>-2326'</td> </tr> <tr> <td>TD</td> <td>5359'</td> <td>-2395'</td> </tr> </table>	Name	Top	Datum	Heeber Shale	3955'	-991'	Lansing	3999'	-1006'	Kansas City "A"	4451'	-1487'	Base Kansas City	4578'	-1614'	Marmaton	4599'	-1635'	Atoka	4957'	-1993'	Morrow Shale	5015'	-2051'	St. Genevieve	5221'	-2257'	St. Louis	5290'	-2326'	TD	5359'	-2395'
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CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> 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
Surface	12 1/4	8 5/8	24	1895	35/65 Poz C	670	2% CC, 1/4# flake
					PP	150	2% CC, 1/4# flake
Production	7 7/8	5 1/2	14	5332	50/50 Poz H	165	2% gel, 10% salt, 1/4#/sx flocele, .6% Halad 322, .25% D-Air-3000
				3123 DV	50/50 Poz Cl C	385	4% Calseal, 10% salt, .5% Halad - 12, 14#/sx flocele, .25% D-Air-3000

ADDITIONAL CEMENTING/SQUEEZE RECORD					
Purpose:	Depth		Type of Cement	#Sacks Used	Type and Percent Additives
	Top	Bottom			
<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
4	Chester 5169-5174 & 5193-5210		2000 gals N-Ver-Sperse, 34000 gals gelled Delta Frac + 90,000 lbs 16/30 sand.	

TUBING RECORD		Size	Set At	Packer At	Liner Run			
		2 7/8	5144		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Date of First, Resumed Production, SWD or Inj. 9/17/00				Producing Method				
				<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)				
Estimated Production Per 24 Hours	Oil	Bbls	Gas	MCF	Water	Bbls.	Gas-Oil Ratio	Gravity
	172		0		40			

Disposition of Gas: METHOD OF COMPLETION Production Interval

Vented  Sold  Used on Lease  Open Hole  Perf.  Usually Comp.  Blended  
 (If vented, submit ACO-18.)  Other (Specify) \_\_\_\_\_



**JOB LOG**

ORDER NO. 70008

887650

8-12-00

REGION North America	NWA/COUNTRY MidCont USA	BDA / STATE Ks	COUNTY Haskell
MBU ID / EMP # MCL10110 106328	EMPLOYEE NAME Nick Korbe	PSL DEPARTMENT 21	ORIGINAL
LOCATION Liberal	COMPANY Cheyenne Drlg (H&P)	CUSTOMER REP / PHONE Phil Lloyd	
TICKET AMOUNT \$11,937.48	WELL TYPE 01	API / UWI #	
WELL LOCATION 14N, 2W, 2 N of Sublette	DEPARTMENT Cement	JOB PURPOSE CODE 010	
LEASE / WELL # Government # B-2	SEC / TWP / RNG 12 - 27S - 34W		

HES EMP NAME/EMP#/(EXPOSURE HOURS)   HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)   HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)   HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)   HRS
N. Korbe 106328 10			
R. Elwood 106270 10			
S. Howell 9			

CHART NO	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	2330							called out
	0230							op log
								Held Safety into set up truck
	0555							stff
	0805							Break circ
	0823					2500		Test lines
	0827	8	0			275		st lead cut 670cks @ 12.3#
	0857	6.5	246/0			350		st tail cut 150cks @ 14.8#
	0904		36					end cut
	0905							rel plug
	0906	8	0			150		st blisp
	0909	8	23			275		catch cut
	0920	2.5	100			400		slow rate
	0929	2.5	119			530		Bump plug
	0930							rel valves
								flod held
<p>circ rabbit cut to pit ✓</p>								
<p>Job complete</p> <p>Thank you</p> <p>Nick &amp; crew</p>								





TRILOBITE TESTING L.L.C.

ORIGINAL

OPERATOR : Helmerich & Payne  
 WELL NAME: Government B-4  
 LOCATION : 12-27s-34w  
 INTERVAL : 4992.00 To 5070.00 ft

DATE 8-17-2000  
 KB 2959.00 ft TICKET NO: 12620  
 GR 2948.00 ft FORMATION: Morrow sand  
 TD 5070.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA
PF 15 Rec.	13278	13278	Alpine			PF Fr. 1958 to 2013 hr
SI 60 Rangm(P>i)	4400.0	4400.0	5000.0	0.0	0.0	IS Fr. 2013 to 2113 hr
SF 60 Clock(hrs)	12HR	12HR	ELECT			SF Fr. 2113 to 2213 hr
FS 180 Depth(ft)	5067.0	5067.0	4993.0	0.0	0.0	FS Fr. 2213 to 0113 hr

	Field	1	2	3	4	
A. Init Hydro	2361.0	0.0	2362.0	0.0	0.0	T STARTED 1723 hr
B. First Flow	154.0	0.0	23.0	0.0	0.0	T ON BOTM 1956 hr
B1. Final Flow	154.0	0.0	114.0	0.0	0.0	I OPEN 1956 hr
C. In Shut-in	1281.0	0.0	1301.0	0.0	0.0	T PULLED 0113 hr
D. Init Flow	231.0	0.0	99.0	0.0	0.0	T OUT 0600 hr
E. Final Flow	264.0	0.0	215.0	0.0	0.0	
F. Fl Shut-in	1336.0	0.0	1318.0	0.0	0.0	
G. Final Hydro	2251.0	0.0	2321.0	0.0	0.0	
Inside/Outside	I	I	I			

TOOL DATA-----

Tool Wt.	1800.00 lbs
Wt Set On Packer	25000.00 lbs
Wt Pulled Loose	4000.00 lbs
Initial Str Wt	82000.00 lbs
Unseated Str Wt	84000.00 lbs
Bot Choke	0.75 in
Hole Size	7.78 in
D Col. ID	2.25 in
D. Pipe ID	3.80 in
D.C. Length	711.00 ft
D.P. Length	4273.00 ft

RECOVERY

Tot Fluid 390.00 ft of 390.00 ft in DC and 0.00 ft in DP  
 150.00 ft of Drilling mud 100%  
 240.00 ft of Gassy oil cut mud 10%g 20% 70%  
 0.00 ft of No gas in pipe  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of

No WTR

SALINITY 1200.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Weak blow built to 3" blow in bucket  
 in 15 mins. I.F.P.

No blow back I.S.I.P.

Weak blow built to 3" blow in bucket  
 in 60 mins. F.F.P.

No blow back F.S.I.P.

SAMPLES: None caught.  
 SENT TO:

MUD DATA-----

Mud Type	Chemical
Wt. lght	0.20 lb/cf
Vis.	42.00 S/L
W.L.	8.00 in3
F.C.	0.00 in
Mud Drop Y	20.0 ft

Amt. of fill	0.00 ft
Btm. H. Temp.	119.00 F
Hole Condition	Good
% 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	Brad Bortz
Co. Rep.	Brad Rine
Contr.	Cheyenne
Rig #	3
Unit #	
Pump T.	

Test Successful: Y

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

№ 12620

## Test Ticket

Well Name & No. Government B-4 Test No. 1 Date 8-17-2000  
 Company Helmerich & Payne Zone Tested Morrow Sand  
 Address 1579 E. 21st Tulsa Ok; 74114 Elevation 2859 KB 2948 GL  
 Co. Rep / Geo. Brad Rine Cont. Cheyenne #3 Est. Ft. of Pay — Por. — %  
 Location: Sec. 12 Twp. 27S Rge. 34W Co. Haskell State Ks  
 No. of Copies 3 Distribution Sheet (Y, N) R Turnkey (Y, N) — Evaluation (Y, N) —

Interval Tested 4976 - 5070 Initial Oil Wt./Lbs. 82,000 Uncased Str Wt / hr 84,000  
 Anchor Length 78' tool 30 Wt. Set Lbs. 25,000 Wt. Pulled Loose/ lb. 4,000  
 Top Packer Depth 4987 Tool Weight 1,800  
 Bottom Packer Depth 4992 Hole Size — 7 7/8" — Rubber Size — 6 3/4" —  
 Total Depth 5070 Wt. Pipe Run — Drill Collar Run 711  
 Mud Wt. 9.2 LCM 2 Vis. 42 WL 8.0 Drill Pipe Size 4 1/2 XH Ft. Run 2200  
 Blow Description weak blow built to 9" in bucket in 15 min F.F.P. 4973  
No Blow back T.S.T.P. trace plugging  
weak blow built to 3" in bucket in 60 min F.F.P. on both flows  
No Blow back F.S.T.P.

Recovery — Total Feet 390' GIP 0 Ft. In DC 390 Ft. in DP —  
 Rec. 150' Feet Of Dry mud %gas — %oil — %water 100% %mud —  
 Rec. 240' Feet Of gassy oil cut mud %gas 10 %oil 20 %water 70 %mud —  
 Rec. — Feet Of — %gas — %oil — %water — %mud —  
 Rec. — Feet Of — %gas — %oil — %water — %mud —  
 Rec. — Feet Of — %gas — %oil — %water — %mud —  
 BHT 119° °F Gravity — °API D<sub>60</sub> — °F Corrected Gravity — °API  
 RW — @ — \*F Chlorides — ppm Potassium, Oxides 1000 ppm Sulfur

	AK-1	Alpine	HWI Recorder Hn	T-On Location
(A) Initial Hydrostatic Mud	<u>2361</u>	<u>2317</u>	<u>2357</u>	<u>300 PM</u>
(B) First Initial Flow Pressure	<u>154</u>	<u>23</u>	(depth) <u>4993</u>	T-Started <u>5:23 PM</u>
(C) First Final Flow Pressure	<u>154</u>	<u>114</u>	PSI Recorder No. <u>13278</u>	T-Open <u>7:58 PM</u>
(D) Initial Shut-In Pressure	<u>1281</u>	<u>1301</u>	PSI (depth) <u>5067</u>	T-Pulled <u>1:13 AM</u>
(E) Second Initial Flow Pressure	<u>231</u>	<u>99</u>	PSI Recorder No. <u>—</u>	T-Out <u>6:00 AM</u>
(F) Second Final Flow Pressure	<u>264</u>	<u>215</u>	PSI (depth) <u>—</u>	T-Off Location <u>7:00 AM</u>
(G) Final Shut-In Pressure	<u>1336</u>	<u>1211</u>	PSI Initial Shut-In <u>60</u>	Jobs <u>✓</u>
(Q) Final Hydrostatic Mud	<u>2251</u>	<u>2321</u>	Final Flow <u>60</u>	Safety Joint <u>✓</u>
			Final Shut-In <u>180</u>	Straddle <u>—</u>
				Circ. Sub <u>✓</u>
				Supply <u>✓</u>
				Extra Packer <u>—</u>
				EUW, PUL. <u>✓</u>
				Milling <u>60</u> ✓
				Other <u>—</u>
				TOTAL PRICE \$ <u>—</u>

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FROM WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF THE EQUIPMENT, OR THE STATEMENTS OR OPINIONS CONCERNING THE RESULTS OF ANY TEST TOOKS LOST OR

To	From
<u>Tom Heinicke</u>	<u>Brad Rine</u>
Co. <u>H + P</u>	Co. <u>Gov't B-4</u>
Dept. <u>Coal</u>	Phone # <u>(718)</u>
Fax # <u>(918) 748-5420</u>	Fax # <u>777 (682-1)</u>

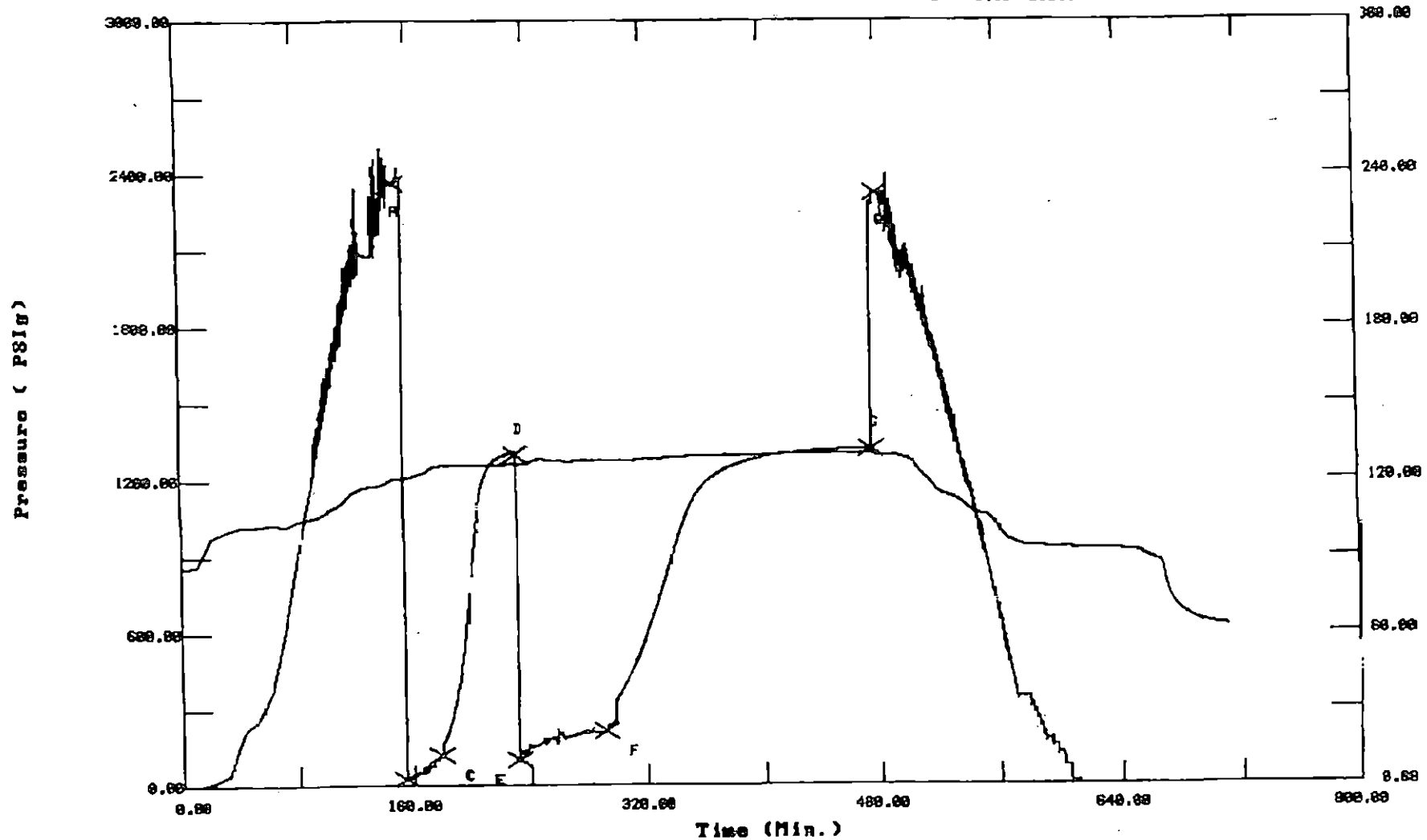


# TEST HISTORY

12620 DS #1 Government B-4 Helmerich & Payne

Flag Points  
(Min.) PK PSig)

A:	0.00	2352.78
B:	0.00	23.28
C:	23.25	114.82
D:	53.58	1381.79
E:	0.00	99.48
F:	68.58	215.86
G:	182.25	1318.28
H:	0.00	2321.92



ORIGINAL

\*\*\* TOOL DIAGRAM \*\*\* CONVENTIONAL

ORIGINAL

WELL NAME: Government B-4

LOCATION : 12-27s-34w

TICKET No. 12620 D.S.T. No. 1 DATE 8 17 2000

TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 30

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR ..... 78

TOTAL TOOL ..... 108

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.Stands 12 Single Total 711

D.P. ABOVE TOOLS.Stands 69 Single Total 4273

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5092

TOTAL DEPTH ..... 5070

TOTAL DRILL PIPE ABOVE K.B. .... 22

REMARKS:

FLUID SAMPLER DATA

Total Vol. 4000 ML.

Total Vol. Rec. 3000 ML.

Oil 1000 ML.

Mud 2000 ML.

Wtr. 0 ML.

Gas 6.0 CF.

Psf. 450

Bht. 119 F.

Pit Chlorides 1000 PPM.

P.O. SUB Cir sub	4842
C.O. SUB Top of tool	4962
Double pin	4963
S.I. TOOL Sterling	4968
Sampler	4971
HMV Sterling	4976
JARS Sterling	4981
SAFETY JOINT Sterling	4983
PACKER Sparton	4988
PACKER Sparton	4992
DEPTH	
STUBB 1 ft.	4993
ANCHOR Alpine	4993
2-co subs 62' std	5057
T.C. CENTU	
Pu. sub	5062
AK-1	5067
6 ft. perfs.	5068
BULLNOSE 2 ft. perfs	
T.D.	5070

TRILOBITE TESTING L.L.C.

ORIGINAL

OPERATOR : Helmerich & Payne  
 WELL NAME: ~~Government B-4~~  
 LOCATION : 12-27s-34w  
 INTERVAL : 5073.00 To 5220.00 ft

DATE 8-18-2000  
 KB 2959.00 ft TICKET NO: 12621 ~~DST # 2~~  
 GR 2948.00 ft FORMATION: Morrow/Chester  
 TD 5220.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 15 Rec.	13278	13278	ALPINE			PF Fr. 0235 to 0250 hr
SI 60 Range(Psi )	4400.0	4400.0	5000.0	0.0	0.0	IS Fr. 0250 to 0350 hr
SF 60 Clock(hrs)	12HR	12HR	ELECT			SF Fr. 0350 to 0450 hr
FS 120 Depth(ft )	5217.0	5217.0	5074.0	0.0	0.0	FS Fr. 0450 to 0750 hr

	Field	1	2	3	4
A. Init Hydro	2493.0	0.0	2418.0	0.0	0.0
B. First Flow	242.0	0.0	46.0	0.0	0.0
B1. Final Flow	275.0	0.0	200.0	0.0	0.0
C. In Shut-in	1402.0	0.0	1373.0	0.0	0.0
D. Init Flow	374.0	0.0	251.0	0.0	0.0
E. Final Flow	539.0	0.0	472.0	0.0	0.0
F. Fl Shut-in	1358.0	0.0	1349.0	0.0	0.0
G. Final Hydro	2317.0	0.0	2352.0	0.0	0.0
Inside/Outside	I	I	I		

T STARTED 1215 hr  
 T ON BOTM 0233 hr  
 T OPEN 0235 hr  
 T PULLED 0750 hr  
 T OUT 1200 hr

TOOL DATA-----

Tool Wt. 1800.00 lbs  
 Wt Set On Packer 25000.00 lbs  
 Wt Pulled Loose 4000.00 lbs  
 Initial Str Wt 84000.00 lbs  
 Unseated Str Wt 88000.00 lbs  
 Bot Choke 0.75 in  
 Hole Size 7.78 in  
 D Col. ID 2.25 in  
 D. Pipe ID 3.80 in  
 D.C. Length 711.00 ft  
 D.P. Length 4364.00 ft

RECOVERY

Tot Fluid 960.00 ft of 710.00 ft in DC and 250.00 ft in DP  
 780.00 ft of Drilling mud 100%  
 180.00 ft of Gassy slightly oil cut mud 70% 2% 28%  
 0.00 ft of No gas in pipe  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 SALINITY 2400.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----

Mud Type Chemical  
 Weight 9.00 lb/cf  
 Vis. 57.00 S/L  
 W.L. 7.60 in3  
 F.C. 0.00 in  
 Mud Drop Y 20.0 ft

BLOW DESCRIPTION

Fair blow built to strong blow O.B.B.  
 in 13 mins. I.F.P.

No blow back I.S.I.P.

Fair blow built to strong blow O.B.B.  
 in 28 mins. F.F.P.

No blow back F.S.I.P.

*Circulated free oil back to  
 the surface after returning to  
 drilling. 8/20/00 per Brad Rine*

SAMPLES: None caught.  
 SENT TO:

Amt. of fill 0.00 ft  
 Btm. H. Temp. 121.00 F  
 Hole Condition Good  
 % 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 Brad Bortz  
 Co. Rep. Brad Rine  
 Contr. Cheyenne  
 Rig # 3  
 Unit #  
 Pump T.

Test Successful: Y



# TRILOBITE TESTING L.L.C.

P.O. Box 382 • Hays, Kansas 67601

ORIGINAL  
# 12621

## Test Ticket

Well Name & No. <u>Government B-4</u>	Test No. <u>2</u>	Date <u>8-17-2000</u>
Company <u>Holmbeck &amp; Ryan</u>	Zone Tested <u>Mudstone/Chert</u>	
Address <u>1579 E. 21st Tulsa OK, 74114</u>	Elevation <u>2957</u>	KB <u>2948</u> GL
Co. Rep / Geo. <u>Brad Rieck</u>	Cont. <u>Cherokee #3</u>	Fat. Ft. of Pay <u>—</u> Por. <u>—</u> %
Location: Sec. <u>12</u> Twp. <u>27S</u> Rge. <u>34W</u>	Co. <u>Haskell</u>	State <u>KS</u>
No. of Copies <u>R</u> Distribution Sheet (Y, N) <u>R</u>	Turnkey (Y, N) <u>—</u>	Evaluation (Y, N) <u>—</u>

Interval Tested <u>5073 - 5220</u>	Initial Str Wt./Lbs. <u>88,000</u>	Unseated Str Wt./Lbs. <u>88,000</u>
Anchor Length <u>147'</u> <u>tool 30'</u>	Wt. Set Lbs. <u>25,000</u>	Wt. Pulled Loose/Lbs. <u>4,000</u>
Top Packer Depth <u>5068</u>	Tool Weight <u>1,800</u>	
Bottom Packer Depth <u>5073</u>	Hole Size — <u>7 7/8"</u>	Rubber Size <u>6 3/4"</u>
Total Depth <u>5220</u>	Wt. Pipe Run <u>—</u>	Drill Collar Run <u>711</u>
Mud Wt. <u>9.0</u> LCM <u>2</u> Vis. <u>5.7</u> WL <u>7.6</u>	Drill Pipe Size <u>4 1/2 x 11</u>	Fl. Run <u>4364 30' up</u>
Blow Description <u>Fair blow built to strong blow O.B.B. in 13min F.F.B.</u>		

NO Blow back T.S.T.B.  
Fair blow built to strong blow O.B.B. in 28min F.F.B.  
NO Blow back F.S.T.P.

Recovery	Total Feet	GIP	Ft. in DC	Ft. in DP
Rec.	<u>780'</u>	Feet Of <u>Drilling mud.</u>	%gas <u>—</u> %oil <u>—</u> %water <u>100</u> %mud <u>—</u>	
Rec.	<u>180'</u>	Feet Of <u>gassy slightly oilcut mud 28</u>	%gas <u>2</u> %oil <u>—</u> %water <u>70</u> %mud <u>—</u>	
Rec.		Feet Of	%gas <u>—</u> %oil <u>—</u> %water <u>—</u> %mud <u>—</u>	
Rec.		Feet Of	%gas <u>—</u> %oil <u>—</u> %water <u>—</u> %mud <u>—</u>	
Rec.		Feet Of	%gas <u>—</u> %oil <u>—</u> %water <u>—</u> %mud <u>—</u>	

BHT 121' °F Gravity — °API D@ — °F Corrected Gravity — °API  
 RW 1.97 @ 86° °F Chlorides 2,400 ppm Recovery Chlorides 1000 ppm System

	AK-1	Alpine	PSI Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>2493</u>	<u>2487</u>	<u>2357</u>	<u>11:00 PM</u>
(B) First Initial Flow Pressure	<u>242</u>	<u>46</u>	PSI (depth) <u>5074</u>	T Started <u>12:15 AM</u>
(C) First Final Flow Pressure	<u>275</u>	<u>222</u>	PSI Recorder No. <u>12778</u>	T-Open <u>2:35 AM</u>
(D) Initial Shut-in Pressure	<u>1402</u>	<u>1373</u>	PSI (depth) <u>5217</u>	T-Pulled <u>7:50 AM</u>
(E) Second Initial Flow Pressure	<u>374</u>	<u>251</u>	PSI Recorder No. <u>—</u>	T Out <u>12:00</u>
(F) Second Final Flow Pressure	<u>539</u>	<u>472</u>	PSI (depth) <u>—</u>	T-Off Location <u>1:00</u>
(G) Final Shut-in Pressure	<u>1358</u>	<u>1349</u>	PSI Initial Opening <u>15</u>	Test <input checked="" type="checkbox"/>
(Q) Final Hydrostatic Mud	<u>2317</u>	<u>2352</u>	PSI Initial Shut-in <u>60</u>	Jars <input checked="" type="checkbox"/>
			Final Flow <u>60</u>	Safety Joint <input checked="" type="checkbox"/>
			Final Shut-in <u>180</u>	Stredle <u>—</u>
				Circ. Sub <u>—</u>
				Sampler <input checked="" type="checkbox"/>
				Extra Packer <u>—</u>
				Elec. Rec. <input checked="" type="checkbox"/>
				Mileage <u>60 mile</u> ✓
				Other <u>—</u>
				TOTAL PRICE \$ <u>—</u>

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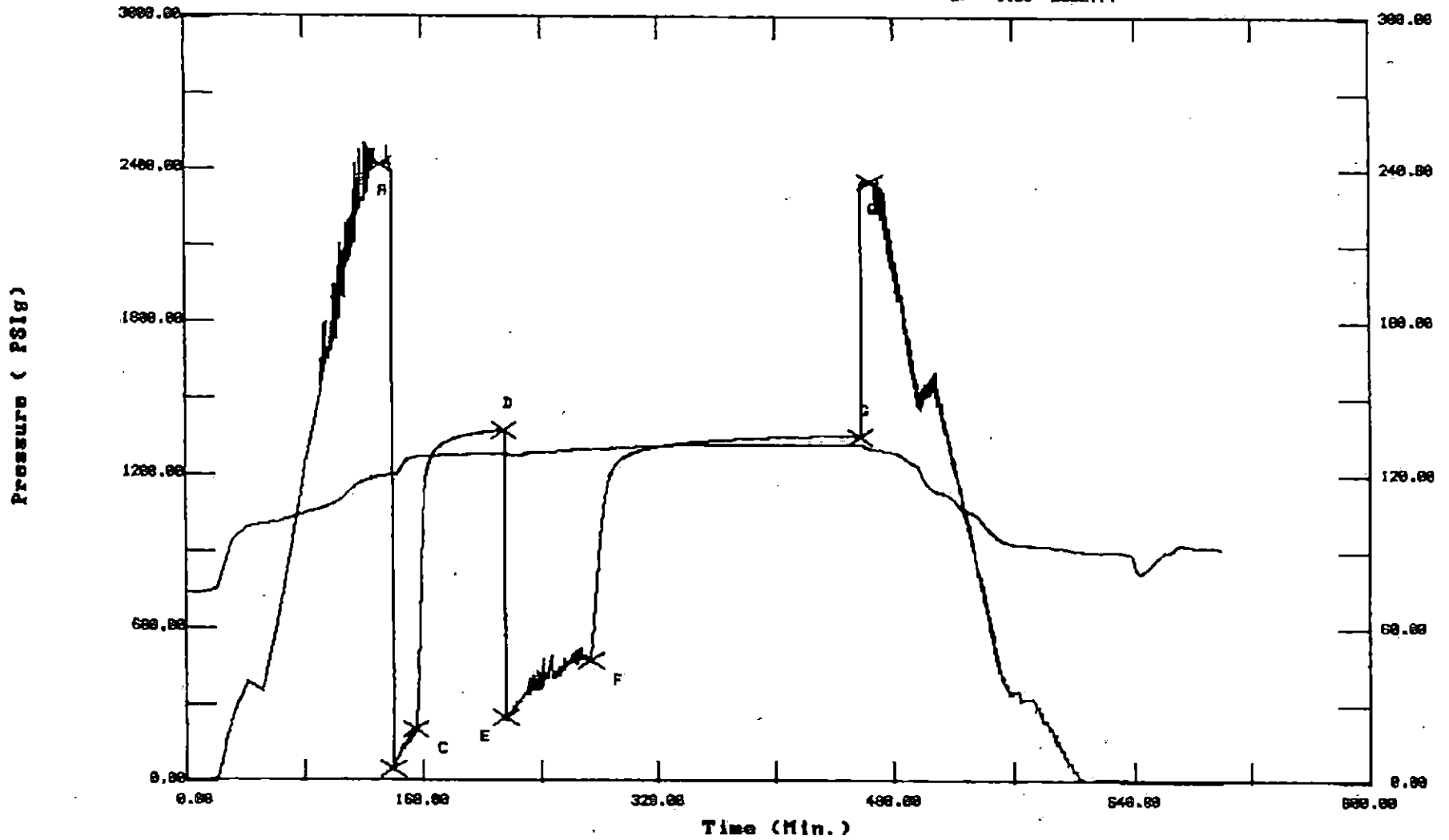
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To <u>Tom Heinicke</u>	From <u>Brad Rieck</u>
Co. <u>H &amp; R</u>	Co. <u>Gov't B-4</u>
Name <u>Geol</u>	Phone # <u>(918)</u>
Fax # <u>(918) 748-5420</u>	Fax # <u>772-6827</u>

# TEST HISTORY

12621 DST #2 Government B-4 Helmerich & Payne

	Flag Points	
	(Min.)	(PSig)
R:	0.00	2418.15
B:	0.00	48.43
C:	15.75	288.58
D:	68.25	1373.51
E:	0.00	251.13
F:	38.58	472.37
G:	183.75	1349.84
Q:	0.00	2352.74



ORIGINAL

