

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

ORIGINAL

API NO. 15- 055-21,098-0000

County Finney

C E/2 E/2 SE/4 Sec. 29 Twp. 21S Rge. 34 X W

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

330' Feet from (E)W (circle one) Line of Section

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

Lease Name Haflich Well # 1

Field Name Wildcat - Hugoton

Producing Formation Chase Group

Elevation: Ground 2983 KB 2991

Total Depth LTD: 4951 PBTD 2716

Amount of Surface Pipe Set and Cemented at 1404 Feet

Multiple Stage Cementing Collar Used? Yes X No

If yes, show depth set - Feet

If Alternate II completion, cement circulated from -

feet depth to - w/ - sx cat.

Drilling Fluid Management Plan A/R-2  
(Data must be collected from the Reserve Pit)

Chloride content 12,000 ppm Fluid volume 600 bbls

Dewatering method used Evaporation

Location of fluid disposal if hauled offsite:

Operator Name \_\_\_\_\_

Lease Name \_\_\_\_\_ License No. \_\_\_\_\_

Quarter Sec. Twp. S Rng. E/W

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

Operator: License # 4058

Name: American Warrior, Inc.

Address P.O. Box 399

City/State/Zip Garden City, KS. 67846

Purchaser: Cibola

Operator Contact Person: Micheal J. Wreath

Phone (316) 275-2963

Contractor: Name: Norseman Drilling, Inc.

License: 03779

Wellsite Geologist: Micheal J. Wreath

Designate Type of Completion

X New Well \_\_\_\_\_ Re-Entry \_\_\_\_\_ Workover

Oil \_\_\_\_\_ SWD \_\_\_\_\_ SIOW \_\_\_\_\_ Temp. Abd.

X Gas \_\_\_\_\_ ENHR \_\_\_\_\_ SIGW

Dry \_\_\_\_\_ Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:

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

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

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

Deepening \_\_\_\_\_ Re-perf. \_\_\_\_\_ Conv. to Inj/SWD

Plug Back \_\_\_\_\_ PBTD

Commingled \_\_\_\_\_ Docket No. \_\_\_\_\_

Dual Completion \_\_\_\_\_ Docket No. \_\_\_\_\_

Other (SWD or Inj?) \_\_\_\_\_ Docket No. \_\_\_\_\_

4-06-92 4-23-92 5-08-92

Spud Date Date Reached TD Completion Date

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, 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 Micheal J. Wreath  
Title Company Geologist Date June 4, 1992

Subscribed and sworn to before me this 4 day of June, 1992.

Notary Public Ronnita L. Thode

Date Commission Expires Nov

NOTARY PUBLIC  
RONNITA L. THODE  
Finney County  
STATE OF KANSAS  
My Appt. Exp. 11/9/94

6-6-92

K.C.C. OFFICE USE ONLY  
F \_\_\_\_\_ Letter of Confidentiality Attached  
C ✓ Wireline Log Received  
C ✓ Geologist Report Received  
✓ STATE OF KANSAS  
KCC \_\_\_\_\_ SWD/Rep \_\_\_\_\_ NGPA  
KGS \_\_\_\_\_ Plug 1992 \_\_\_\_\_ Other \_\_\_\_\_  
(Specify)  
RECEIVED  
JUN 9 1992  
CONSERVATION DIVISION  
Wichita, Kansas  
Form ACO-1 (7-91)

Operator Name American Warrior, Inc. Lease Name Haflich Well # 1

Sec. 29 Twp. 21 Rge. 34  East County Finney  
 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  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 Induction, Caliper, PE, Compensated Density Neutron, Gamma Ray, Formation Evaluation Log

Log	Formation (Top), Depth and Datum	Sample
<input checked="" type="checkbox"/>	Name Top Datum	
	Base Anhydrite 2091 + 900	
	Herington 2536 + 455	
	Krider 2572 + 419	
	Heebner 3833 - 842	
	Lansing 3880 - 889	
	BKC 4356 -1365	
	Marmaton 4380 -1389	
	Cherokee 4524 -1537	
	Morrow Shale 4742 -1751	
	St. Louis 4864 -1873	
	TD 4951 -1960	

**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
Surface	12 1/4"	8 5/8"	20	1404'	HLC 60/40 POZ	140 150	2% CC 2% Gel, 3%CC
Production	7 7/8"	4 1/2"	9 1/2	2750	HLC 60/40	300 175	10%gel, 5#gilson 2%gel, 10%salt

**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 Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
2 SPF	2684-2688	500 gal. 15% FE	2684-2688
2 SPF	2636-2642	500 gal. 15% FE	2636-2642
2 SPF	2576-2580	500 gal. 15% FE	2576-2580
		Frac all perms w/58,000 # sand	2688-2580 OA

**TUBING RECORD** Size 2 3/8" Set At 2673 Packer At \_\_\_\_\_ Liner Run  Yes  No

Date of First, Resumed Production, SVD or Inj. SI pending pipeline hookup Producing Method  Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production Per 24 Hours Oil 0 Bble. Gas SI Gas Well Mcf Water - Bbls. Gas-Oil Ratio - Gravity -

Disposition of Gas:  Vented  Sold  Used on Lease (If vented, submit ACO-18:.)

METHOD OF COMPLETION:  Open Hole  Perf.  Dually Comp.  Commingled  Other (Specify) \_\_\_\_\_

Production Interval 2688-2580 OA

ORIGINAL

GEOLOGICAL REPORT

AMERICAN WARRIOR, INC.

HAFlich #1

C E/2 E/2 SE SECTION 29-21S-34W

FINNEY COUNTY, KANSAS

RECEIVED  
STATE CORPORATION COMMISSION

JUN 8 1992

CONSERVATION DIVISION  
Wichita Kansas

# ORIGINAL

OPERATOR: American Warrior, Inc.  
P O Box 399  
Garden City, Ks 67846

WELL: Haflich No 1

LOCATION: C E/2 E/2 SE/4 Section 29-21S-34W  
Finney County, Kansas

FIELD: Wildcat

WELL SITE: Flat wheat field

ELEVATION: 2983 GL 2991 KB

COMMENCED: April 16, 1992

COMPLETED: April 23, 1992 (with rotary)

TOTAL DEPTH: RTD 4950-1959 LTD 4951-1960

CASING: Surface 8-5/8" @ 1404/600 sacks cement  
Production 4-1/2" @ 2750/475 sacks cement

SAMPLES: Samples were examined from 2500 feet to total  
depth

FORMATION TESTS:  
There were no drill stem tests

ELECTRICAL LOGS:  
Dual Induction, Caliper, PE, Compensated  
Density Neutron, Gamma Ray, Formation Evalua-  
tion log by Rosel Company

CONTRACTOR: Norseman Drilling - Rig #2

GAS DETECTOR: Norseman Drilling

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Wichita, Kansas

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	Samples	Rosel
Base Anhydrite	2086 +905	2091 +900
Herington	2543 +448	2536 +455
Krider	2580 +411	2572 +419
Winfield	2626 +365	2616 +375
Towanda	2690 +301	2684 +307
Ft Riley	2742 +249	2730 +261
Neva	3036 -45	3028 -37
Tarkio	3391 -400	3384 -393
Howard	3500 -509	3496 +505
Topeka	3546 -555	3538 +547
Heebnet	3840 -849	3833 -842
Toronto	3860 -869	3856 -865
Lansing	3885 -894	3880 -889
"F" Zone	4044 -1053	4034 -1043
Base Kansas City	4360 -1369	4356 -1365
Marmaton	4389 -1398	4380 -1389
Cherokee Shale	4531 -1540	4524 -1537
Morrow Shale	4751 -1760	4742 -1751
Morrow Lime	4765 -1775	4758 -1767
St Louis	4870 -1879	4864 -1873
Total Depth	4950 -1959	4951 -1960

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## SAMPLE ZONE DESCRIPTIONS

(All depths adjusted to log)

Herington  
2536 - 2542

Dolomite; very light brown, sub blocky, firm, very fine crystalline, fair intercrystalline porosity, trace pale yellow fluorescence, no gas increase.

Krider  
2576 - 2580

Dolomite; very light brown, sub blocky, moderately friable, very fine crystalline, fair intercrystalline porosity, slightly sandy in part, common dull yellow brown fluorescence 22 unit gas kick.

Winfield  
2637 - 2644

Dolomitic sand; very light brown, dull white, sub blocky, firm, fine grained - fine crystalline, moderately good intergranular and intercrystalline porosity, moderately common yellow and spotted yellow fluorescence, brighter fluorescence than Krider, 14 unit spike gas kick, trace oil rainbow on water, very slight white cut.

Towanda  
2684 - 2696

Dolomitic Limestone; white, sub blocky, firm, fair intercrystalline porosity, common pale yellow fluorescence, 27 unit gas increase.

Fort Riley  
2744 - 2764

Limestone; mottled grey and black, blocky to sub blocky, moderately hard, fine crystalline, abundant pellets and some fossils, poor to fair intercrystalline porosity, no gas increase.

Toronto  
3856 - 3876

Limestone; white, sub blocky, moderately friable, medium crystalline, chalky in part, trace white chert, good intercrystalline porosity in part, no oil stain, trace very pale yellow fluorescence, no odor or cut, no gas increase.

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Lansing/Kansas City  
3894 - 3900

Limestone; white, sub blocky, chalky to firm, fine crystalline, good intercrystalline porosity, no show or gas increase.

3986 - 3998

Limestone; white, very light brown, sub blocky, firm, fine crystalline, chalky in part, fair intercrystalline porosity, no show or gas increase.

4034 - 4060

Limestone; white, sub blocky, brittle, very fine crystalline, well developed medium sized ooliticasts, excellent porosity, barren, no shows or gas increase, common yellow mineral fluorescence.

4100 - 4112

Limestone; white, sub blocky, moderately hard, fine crystalline, trace oolitic and chalky, fair to good intercrystalline porosity, no shows or gas increase.

4134 - 4141

Limestone; white, sub blocky, firm, fine crystalline, oolitic and trace ooliticastic, moderately good intergranular and vugular porosity, no oil shows, no odor or cut, pale yellow fluorescence, 10 unit gas increase.

4172 - 4210

Limestone; very light brown, sub blocky, firm to brittle, fine crystalline, well developed small ooliticasts, some oolites, excellent porosity barren, no oil stain or gas increase.

4234 - 4254

Limestone; dull grey white, sub blocky, brittle, fine crystalline, moderately well developed ooliticasts very good porosity, no shows or gas increase.

4283 - 4288

Limestone; light brown, sub blocky, brittle, very fine crystalline, common ooliticasts and oolites, very good porosity, no oil shows or gas increase.

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4338 - 4344

Limestone; dull white, light brown, sub blocky, firm, fine crystalline, chalky in part, trace chalk and grey chert, fair intercrystalline porosity, no oil shows or gas increase. no odor or cut, no gas increase.

Marmaton  
4404 - 4411

Limestone; white, sub blocky, brittle, fine crystalline, well developed medium ooliticasts, very good porosity, barren, no oil stain, yellow mineral fluorescence, or odor or cut, no gas increase.

Beymer  
4480 - 4488

Limestone; white, very light brown, sub blocky, firm, fine crystalline, common fossils and oolites, moderately good intergranular porosity, no oil show or gas increase.

Johnson  
4510 - 4520

Limestone; light brown, sub blocky, firm, fine crystalline, common oolites, fair to moderately good intergranular porosity, no oil show or gas increase.

Cherokee  
4562 - 4568

Limestone; dull white, light grey, sub blocky, firm, fine crystalline, slightly fossiliferous, fair to good intercrystalline porosity, no oil show or gas increase.

4632 - 4638, 4640 - 4642

Limestone; very light brown, sub blocky, firm, fine crystalline, sucrosic, fair intercrystalline porosity, no oil stain, trace yellow fluorescence, no odor or cut, 14 unit gas kick.

4712 - 4718

Limestone; light grey, sub blocky, firm, medium crystalline, poor to fair intercrystalline porosity, common scattered black dead oil stain, no fluorescence or odor, very week white cut, 20 unit gas increase.

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# ORIGINAL

Morrow  
4758 - 4768

Limestone; white, sub blocky, moderately hard, fine crystalline, fair intercrystalline porosity, trace dead oil stain, no fluorescence, odor or cut, 16 unit increase.

4776 - 4780; 4783 - 4789; 4800 - 4802

Limestone; white, sub blocky, moderately hard, very fine crystalline tight, trace oolitic, common glauconite, no oil stain, yellow mineral fluorescence, no odor or cut, no gas increase.

4802 - 4858

Shale; very dark grey, platy, waxy, firm with very rare sand streaks. One cluster sandstone; clear, fine grained, moderately friable, good intergranular porosity, common oil stain, few drops heavy black free oil when crushed, no fluorescence or odor, weak white cut.

4858 - 4864

Sandstone; white, blocky, clusters, hard, dense, fine grained subangular quartz, pyritic in part, silty in part, poor to fair intergranular porosity, trace dead oil stain, no fluorescence, odor or cut, no gas kick.

Mississippian St Louis  
4864 - 4880; 4892 - 4900

Limestone; white, blocky, hard, very fine crystalline, chalky in part, slightly oolitic in part, no oil stain, dull yellow mineral fluorescence, no odor or cut, carried @40-80 units background gas from @4860 to @4900 with no gas kicks.

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Wichita, Kansas

# ORIGINAL

## Structural Correlation

	Haflich #1 C E/2E/2 SE 29-21-34W	Haflich #1 C SE/4 29-21-34W	Hutchinson #1 C NE/4 32-21-34W	Wright #1 SE NW NW 33-21-34W	Powers 1-33 C NE SW 33-21-34W
Herington	+ 455	+ 448	+ 462	+ 472	+ 474
Krider	+ 419	+ 408	+ 433	+ 441	+ 443
Heebner	- 842	-	-	- 828	- 827
Lansing	- 889	-	-	- 876	- 876
Marmaton	-1389	-	-	-1364	-1362
Cherokee Shale	-1537	-	-	-1501	-1497
Morrow Shale	-1751	-	-	-1702	-1703
Mississippian	-1873	-	-	-1774	-1774
Total Depth	-1960	+ 343	+ 378	-1933	-1914
	-	450 MCF	8.43 MMCF	9.11 MMCF	D & A
	HUGOTON 1992	HUGOTON 1955	HUGOTON 1955	HUGOTON 1945	- 1992

In view of the absence of favorable structure at depth it was recommended that production casing be set to further evaluate the Hugoton gas zones. Rosel recommends the following zones for perforation:

Krider:	2576 - 2580
Winfield:	2637 - 2644
Towanda:	2684 - 2690

The Towanda should be isolated following perforation and mud clean up acid. If water production is excessive it should be isolated with a bridge plug before the Krider and Winfield are stimulated.

All Measurements are taken from the Kelly bushing elevation and Rosel's measurements of zones and total depth are taken as correct.

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JUN 8 1992

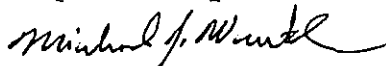
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Wichita, Kansas

ORIGINAL

PRODUCTION CASING

Ran 77 joints (2741') 4-1/2" OD, 9-1/2 Lb K-55 production casing. Set at 2750' with 9' landing joint. Cemented by Howco with 10 barrels freshwater flush, 300 sacks Howco Lite, 175 sacks 60-40 POZ mix with 2% gel, 10% salt, 1/4 Lb Floscal per sack. Ran 5 centralizers from 2750' to 2550' and one centralizer at 2085'. Ran baskets at 2510' and 1650'. Full returns throughout job. Plug down 7:30 AM April 24, 1992. Shoe joint 33.57 feet. Packer shoe with flapper type insert float. Plug at 2716'. Six joints left on location.

Respectfully submitted,



Michael J Wreath  
Company Geologist

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STATE CORPORATION COMMISSION

JUN 8 1992

CONSERVATION DIVISION  
Wichita, Kansas

# BULK MATERIALS DELIVERY AND TICKET CONTINUATION

# ORIGINAL

FOR INVOICE AND  
TICKET NO.



DATE <b>4-23-92</b>	CUSTOMER ORDER NO.	WELL NO. AND FARM <b>Haslick #1</b>	COUNTY <b>Finney</b>	STATE <b>Kansas</b>
CHARGE TO <b>American Warrior</b>		OWNER <b>Same</b>	CONTRACTOR <b>Noresman Drig.</b> No. <b>B 942284</b>	
MAILING ADDRESS		DELIVERED FROM <b>Hays, Ks</b>	LOCATION CODE <b>25525</b>	PREPARED BY <b>Kuhn</b>
CITY & STATE		DELIVERED TO <b>S/W S cottCity, Ks</b>	TRUCK NO. <b>0530</b>	RECEIVED BY <i>[Signature]</i>

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE		DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT	
		L	D		QTY.	MEAS.	QTY.	MEAS.			
				150Cu. Ft. Pozmix Cement	102	Gel					
504-398	516.00261	2	B	Standard Cement	98				6.06	593	88
506-105	516.00286	2	B	Pozmix 'A'	52				3.40	176	80
506-121	516.00259	2	B	3sk Halliburton Gel	102	X					n/c
507-277	516.00259	2	B	Halliburton gel	10	8Z			14.75	147	50
				50Cu. Ft. Pozmix Cement	2	Gel					
504-308	516.00261	2	B	Standard Cement	90				6.06	181	00
506-105	516.00286	2	B	Pozmix 'A'	20				3.40	68	00
506-121	516.00259	2	B	2sk Halliburton Gel	102	X					n/c
509-968	516.00158	2	B	Salt Blended	239	1b			.10	23	90
508-291	516.00337	2	B	Gilsonite Blended	750	1b			.35	262	50
507-210	890.50071	2	B	Flocele B lended	13	1b			1.30	16	90

		Returned Mileage Charge	TOTAL WEIGHT	LOADED MILES	TON MILES		
			SERVICE CHARGE ON MATERIALS RETURNED		CU. FEET		
500-2207		2	B	SERVICE CHARGE	239	1.15	274 85
					CU. FEET		
500-306		2	B	Mileage Charge	19,752	75	740.700
				TOTAL WEIGHT	75	LOADED MILES	TON MILES
						80	592 56
No. <b>B 942284</b>						CARRY FORWARD TO INVOICE	SUB-TOTAL
							2,337 89

CONTRACTING DIVISION  
EXTRA COPY

ORIGINAL

TICKET NO. 194647-2

FORM 1906 R-11

WELL NO. - FARM OR LEASE NAME <i>1 Hottish</i>		COUNTY <i>Finnay</i>	STATE <i>Ks</i>	CITY / OFFSHORE LOCATION	DATE <i>7-21-92</i>	
CHARGE TO <i>American Water</i>		OWNER <i>same</i>	TICKET TYPE (CHECK ONE) SERVICE <input checked="" type="checkbox"/> SALES <input type="checkbox"/>		NITROGEN JOB YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	
ADDRESS <i>Box 319</i>		CONTRACTOR		1 LOCATION <i>11000 Hwy, Ks</i>	CODE <i>25853</i>	
CITY, STATE, ZIP <i>Cochran City, Ks</i>		SHIPPED VIA <i>501 0102</i>	FREIGHT CHARGES <input type="checkbox"/> PPD <input type="checkbox"/> COLLECT		2 LOCATION <i>Hwy, Ks</i>	CODE <i>37225</i>
WELL TYPE <i>01</i>	WELL CATEGORY <i>03</i>	WELL PERMIT NO.	DELIVERED TO <i>3/20 Hottish, Ks</i>	3 LOCATION	CODE	
TYPE AND PURPOSE OF JOB <i>035</i>		<b>B-</b> <i>7112294</i>	ORDER NO.	REFERRAL LOCATION		

As consideration, the above-named Customer agrees to pay Halliburton in accord with the rates and terms stated in Halliburton's current price lists. Invoices payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event it becomes necessary to employ an attorney to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account. These terms and conditions shall be governed by the law of the state where services are performed or equipment or materials are furnished.

Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and customer's exclusive remedy in any cause of action (whether in contract, tort, product liability, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.

PRICE REFERENCE	SECONDARY REF OR PART NO.	L O C.	ACCOUNT	DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT
					QTY	MEAS	QTY	MEAS		
<i>000-117</i>		<i>1</i>		MILEAGE <i>3530</i>	<i>75</i>	<i>mi</i>			<i>2.60</i>	<i>195.00</i>
<i>001-016</i>		<i>1</i>		Pumping Charge	<i>7750</i>	<i>ft.</i>		<i>8/YR</i>		<i>1130.00</i>
<i>80</i>	<i>055-0178</i>	<i>1</i>		Foundation 7hr Job	<i>1</i>	<i>hr</i>	<i>7 1/2</i>	<i>hr</i>		<i>2300.00</i>
<i>82</i>	<i>855-01545</i>	<i>1</i>		Filling Unit	<i>1</i>	<i>hr</i>	<i>1</i>	<i>hr</i>		<i>45.00</i>
<i>91</i>	<i>807,73004</i>	<i>1</i>		2nd Connections	<i>6</i>	<i>hr</i>	<i>7 1/2</i>	<i>hr</i>	<i>43.00</i>	<i>258.00</i>
<i>330</i>	<i>810,8081</i>	<i>1</i>		Concrete Paved	<i>2</i>	<i>hr</i>	<i>7 1/2</i>	<i>hr</i>	<i>85.00</i>	<i>170.00</i>

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO. **B-** *9112294 + 9112294*

WAS JOB SATISFACTORILY COMPLETED? \_\_\_\_\_  
WAS OPERATION OF EQUIPMENT SATISFACTORY? \_\_\_\_\_  
WAS PERFORMANCE OF PERSONNEL SATISFACTORY? \_\_\_\_\_

WE CERTIFY THAT THE FAIR LABOR STANDARDS ACT OF 1938, AS AMENDED HAS BEEN COMPLIED WITH IN THE PRODUCTION OF GOODS AND OR WITH RESPECT TO SERVICES FURNISHED UNDER THIS CONTRACT.

*[Signature]*  
HALLIBURTON OPERATOR

HALLIBURTON APPROVAL

RECEIVED  
STATE CORPORATION COMMISSION  
JUN 8 1992  
Wichita, Kansas

X CUSTOMER OR HIS AGENT (PLEASE PRINT)  
X *[Signature]*  
CUSTOMER OR HIS AGENT (SIGNATURE)

RETAIN



WORK ORDER CONTRACT AND PRE-TREATMENT DATA

ORIGINAL

FORM 1908 R-7

A Division of Halliburton Company

ATTACH TO INVOICE & TICKET NO. 191017

DISTRICT Pratt, Ks

DATE 4-24-92

TO: HALLIBURTON SERVICES YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE

THE SAME AS AN INDEPENDENT CONTRACTOR TO: American Warrior (CUSTOMER) AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. 1 LEASE Haffloch SEC. 29 TWP. 21 S RANGE 34 W

FIELD COUNTY Finney STATE K OWNED BY Same

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME TYPE FORMATION THICKNESS FROM TO PACKER: TYPE SET AT TOTAL DEPTH 1950' MUD WEIGHT BORE HOLE 7 7/8 INITIAL PROD: OIL BPD, H2O BPD, GAS MCF PRESENT PROD: OIL BPD, H2O BPD, GAS MCF

Table with columns: NEW USED, WEIGHT, SIZE, FROM, TO, MAX. ALLOW. P.S.I. Rows include CASING, LINER, TUBING, OPEN HOLE, and PERFORATIONS.

PREVIOUS TREATMENT: DATE TYPE MATERIALS

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED

Removal prod casing as directed

CUSTOMER OR HIS AGENT WARRANTS THE WELL IS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES

- As consideration, the above-named Customer agrees: THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED. a) To pay Halliburton in accord with the rates and terms stated in Halliburton's current price list. b) To defend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, parent and affiliated companies... c) That because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, Halliburton is unable to guarantee the effectiveness of the products, supplies or materials... d) That Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. e) That Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well... f) To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act... g) That this contract shall be governed by the law of the state where services are performed or materials are furnished. h) That Halliburton shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized executive officer of Halliburton.

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT. SIGNED Frank Powell CUSTOMER DATE 4-24-92 TIME 0100 P.M.

RECEIVED CONSERVATION DIVISION JUN 8 1992 Wichita, Kansas

We certify that the Fair Labor Standards Act of 1938, as amended, has been complied with in the production of goods and/or with respect to services furnished under this contract.

RETAIN

# HALLIBURTON SERVICES JOB SUMMARY

FORM 2025

HALLIBURTON DIVISION Wichita, KS

HALLIBURTON LOCATION Wichita, KS

BILLED ON TICKET NO. 104677

ORIGINAL

## WELL DATA

FIELD \_\_\_\_\_ SEC. 29 TWP. 21 RNG. 34 COUNTY Finney STATE K

FORMATION NAME \_\_\_\_\_ TYPE \_\_\_\_\_

FORMATION THICKNESS \_\_\_\_\_ FROM \_\_\_\_\_ TO \_\_\_\_\_

INITIAL PROD: OIL \_\_\_\_\_ BPD. WATER \_\_\_\_\_ BPD. GAS \_\_\_\_\_ MCFD \_\_\_\_\_

PRESENT PROD: OIL \_\_\_\_\_ BPD. WATER \_\_\_\_\_ BPD. GAS \_\_\_\_\_ MCFD \_\_\_\_\_

COMPLETION DATE \_\_\_\_\_ MUD TYPE \_\_\_\_\_ MUD WT. \_\_\_\_\_

PACKER TYPE \_\_\_\_\_ SET AT \_\_\_\_\_

BOTTOM HOLE TEMP. \_\_\_\_\_ PRESSURE \_\_\_\_\_

MISC. DATA TP 2777' TOTAL DEPTH 7950'

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	4	7	1 1/2	BL	2750'	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

## JOB DATA

### TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG		
HEAD		
PACKER		
OTHER		

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>4-23</u>	DATE <u>4-23</u>	DATE <u>4-24</u>	DATE <u>4-24</u>
TIME <u>2000</u>	TIME <u>2345</u>	TIME <u>0410</u>	TIME <u>0745</u>

### PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>D. Lamm</u>	<u>51145</u>	<u>Wichita, KS</u>
<u>K. Carter</u>	<u>51145</u>	<u>Wichita, KS</u>
		<u>Wichita, KS</u>
		<u>Wichita, KS</u>

### MATERIALS

TREAT. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB/GAL. °API

DISPL. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB/GAL. °API

PROP. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB.

PROP. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB.

ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %

ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %

ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %

SURFACTANT TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ IN

NE AGENT TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ IN

FLUID LOSS ADD. TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN

GELLING AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN

FRIC. RED. AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN

BREAKER TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN

BLOCKING AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN

PERFPAC BALLS TYPE \_\_\_\_\_ QTY. \_\_\_\_\_

OTHER \_\_\_\_\_

OTHER \_\_\_\_\_

DEPARTMENT Conservation

DESCRIPTION OF JOB Conservation pond casing

JOB DONE THRU: TUBING  CASING  ANNULUS  TBG./ANN.

CUSTOMER REPRESENTATIVE X Frank Bevell

HALLIBURTON OPERATOR \_\_\_\_\_ COPIES REQUESTED \_\_\_\_\_

## CEMENT DATA

STAGE	NUMBER OF SACKS	TYPE	API CLASS	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	300	65/35	A	Hiz	B	16% gal. 5 <sup>#</sup> sil.	2.43	11.7
	125	60/40	A	Dom	B	2% gal., 17% salt 1/2 <sup>#</sup> flocc	1.30	14.54

### PRESSURES IN PSI

### SUMMARY

### VOLUMES

CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_ PRESLUSH: BBL.-GAL. \_\_\_\_\_ TYPE \_\_\_\_\_

BREAKDOWN \_\_\_\_\_ MAXIMUM \_\_\_\_\_ LOAD & BKDN: BBL.-GAL. \_\_\_\_\_ PAD: BBL.-GAL. \_\_\_\_\_

AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_ TREATMENT: BBL.-GAL. \_\_\_\_\_ DISPL: BBL.-GAL. 7 1/2

SHUT-IN: INSTANT \_\_\_\_\_ 5-MIN. \_\_\_\_\_ 15-MIN. \_\_\_\_\_ CEMENT SLURRY: BBL.-GAL. 130 70.75

ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_ TOTAL VOLUME: BBL.-GAL. \_\_\_\_\_

AVERAGE RATES IN BPM \_\_\_\_\_ REMARKS See Job Log Chart

TREATING \_\_\_\_\_ DISPL. \_\_\_\_\_ OVERALL \_\_\_\_\_

CEMENT LEFT IN PIPE \_\_\_\_\_

FEET 33 1/2 REASON Shoe JT

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JUN 8 1992

CUSTOMER \_\_\_\_\_ LEASE \_\_\_\_\_ WELL NO. \_\_\_\_\_ JOB TYPE \_\_\_\_\_ DATE 4-24-92

# JOB LOG

ORIGINAL

WELL NO. #1 LEASE HaFlich TICKET NO. 144617

CUSTOMER American Waxing PAGE NO. 1

JOB TYPE Cement 4 1/2 casing DATE 7-21-92

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0710							On location - R <sub>2</sub> laying down DP.
	0720							Start 4" casing
								Setting FIT. Dis filling ball & PKR
	0600							Fin. running casing
	0610							R <sub>2</sub> air hole
	0610							Stop run - Drop PKR shoe ball
	0650							R <sub>2</sub> PKR ball down & set PKR shoe
	0655							Start to thru casing
	0700	5	7					Start 1st gal ahead of Gilbertson
	0701	6 1/2	130					Start 200 sps 45/100 Per, 10% gel, and 5" 1st Gilbertson
			90 1/2					Start 175 sps 45/100 Per, 2% gel, 10% salt, 1/4" 1st throte.
	0725							Fin. cement. west out pump & hoses
	0729							Release 300 let down Plug
	0730	6 1/2						Start Diapl
	0737		14 1/2					Plug down - hold press
								Release press - OK
	0745							Job complete
								Wash up & hook up
								Thank You
								D. Lowman 71719
								K. Carter
								A. Cable
								B. Naylor E2361

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 CONSERVATION DIVISION  
 Wichita, Kansas





# BULK MATERIALS DELIVERY AND TICKET CONTINUATION

FOR INVOICE AND  
TICKET NO. 17454

## ORIGINAL

DATE <b>4-18-92</b>	CUSTOMER ORDER NO.	WELL NO. AND FARM <b>Haslick #1</b>	COUNTY <b>Finney</b>	STATE <b>Kansas</b>
CHARGE TO <b>American Warrior</b>		OWNER <b>Same</b>	CONTRACTOR <b>No. B 942271</b>	
MAILING ADDRESS		DELIVERED FROM <b>Hays, Ks</b>	LOCATION CODE <b>25525</b>	PREPARED BY <b>Kuhn</b>
CITY & STATE		DELIVERED TO <b>S/W Scott City, Ks</b>	TRUCK NO. <b>0530 51252</b>	RECEIVED BY <i>[Signature]</i>

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE	DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT	
				QTY.	MEAS.	QTY.	MEAS.			
504-316		2B	Halliburton Light Cement	450				5.65	2,542	50
<i>504-308</i>	<i>516.00261</i>		<i>292 Pozmix</i>							
<i>506-105</i>	<i>516.00286</i>		<i>157 Pozmix</i>							
<i>506-121</i>	<i>516.00259</i>		<i>23 Halliburton Gel</i>							
			150Cu. Ft. Pozmix Cement 2% Gel							
504-308	516.00261	2B	Standard Cement	90				6.06	545	40
506-105	516.00286	2B	Pozmix 'A'	60				3.40	204	00
506-121	516.00259	2B	3bk Halliburton Gel@2%							n/c
509-406	890.50812	2B	Calcium Chloride Blended	12				26.50	318	00
507-210	890.50071	2B	Flocele Blended	150	1b			1.30	195	00

		Returned Mileage Charge	TOTAL WEIGHT	LOADED MILES	TON MILES			
			SERVICE CHARGE ON MATERIALS RETURNED		CU. FEET			
500-207		2B	SERVICE CHARGE		634	1.15		
					CU. FEET			
500-306		2B	Mileage Charge	55,160	75	2,068.500		
			TOTAL WEIGHT		LOADED MILES	TON MILES		
						.80		
No. <b>B 942271</b>						CARRY FORWARD TO INVOICE	SUB-TOTAL	<b>6,188 80</b>

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JUN 8 1992  
CONSERVATION DIVISION  
Wichita Kansas 729 10



ORIGINAL NO. **TICKET** 194834-2

FORM 1906 R-11

WELL NO. - FARM OR LEASE NAME <i>1 Hshock</i>		COUNTY <i>Finney</i>	STATE <i>K.</i>	CITY / OFFSHORE LOCATION	DATE <i>4-17-92</i>
CHARGE TO <i>American Well</i>		OWNER <i>Same</i>	TICKET TYPE (CHECK ONE) SERVICE <input checked="" type="checkbox"/> SALES <input type="checkbox"/>		NITROGEN JOB YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
ADDRESS <i>Box 399</i>		CONTRACTOR <i>Northern Drilling</i>	LOCATION <i>1 Mo. City, K.</i>		CODE <i>2553</i>
CITY, STATE, ZIP <i>Clenden City, K.</i>		SHIPPED VIA <i>M. C. Y.</i>	FREIGHT CHARGES <input type="checkbox"/> PPD <input type="checkbox"/> COLLECT	LOCATION <i>2 Hwy, K.</i>	
WELL TYPE <i>01</i>	WELL CATEGORY <i>01</i>	WELL PERMIT NO.	DELIVERED TO <i>W/ C. W.</i>	LOCATION <i>3</i>	
TYPE AND PURPOSE OF JOB <i>010</i>		<b>B- 942271</b>	ORDER NO.	REFERRAL LOCATION	

As consideration, the above-named Customer agrees to pay Halliburton in accord with the rates and terms stated in Halliburton's current price lists. Invoices payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event it becomes necessary to employ an attorney to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account. These terms and conditions shall be governed by the law of the state where services are performed or equipment or materials are furnished.

Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and customer's exclusive remedy in any cause of action (whether in contract, tort, product liability, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.

PRICE REFERENCE	SECONDARY REF OR PART NO.	L O C.	ACCOUNT	DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT	
					QTY	MEAS	QTY	MEAS			
000-117		1		MILEAGE <i>51147</i>	45	mi			2.00	195	0101
001-016		1		Pump Service	1405	Ft				900	0101
001-003		1		1 1/2" Top Plug	1	ea	81	ea		90	0101
16A	830.2711	1		Grade Shoe	1	ea				161	0101
40	807.92059	1		S-4 Cont.	4	ea			62.50	243	0101
24A	815.19502	1		Invert Float Valve	1	ea				171	0101
27	815.14415	1		Auto. Filling Assy	1	ea				30	0101
390	800.8322	1		Cont. B. Net	2	ea			122.00	244	0101
350	840.10503	1		Thro. Weld	1	ea				11	0101

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO. **B- 942271**

RECEIVED STATE CORPORATION COMMISSION JUN 8 1992

WE CERTIFY THAT THE FAIR LABOR STANDARDS ACT OF 1938, AS AMENDED HAS BEEN COMPLIED WITH IN THE PRODUCTION OF GOODS AND OR WITH RESPECT TO SERVICES FURNISHED UNDER THIS CONTRACT.

HALLIBURTON OPERATOR: *Ray B. Splett*

HALLIBURTON APPROVAL: \_\_\_\_\_

CUSTOMER OR HIS AGENT (PLEASE PRINT): \_\_\_\_\_

CUSTOMER OR HIS AGENT (SIGNATURE): *Frank B. Splett*

EXTRA COPY

APPLICABLE TAXES WILL BE ADDED ON INVOICE.



# JOB SUMMARY

HALLIBURTON DIVISION Oil & Gas, Inc.  
 HALLIBURTON LOCATION Midway, K.

BILLED ON TICKET NO. 17434

## WELL DATA

FIELD \_\_\_\_\_ SEC. 29 TWP. 21 RNG. 24 COUNTY \_\_\_\_\_ STATE K

FORMATION NAME \_\_\_\_\_ TYPE \_\_\_\_\_

FORMATION THICKNESS \_\_\_\_\_ FROM \_\_\_\_\_ TO \_\_\_\_\_

INITIAL PROD: OIL \_\_\_\_\_ BPD. WATER \_\_\_\_\_ BPD. GAS \_\_\_\_\_ MCFD \_\_\_\_\_

PRESENT PROD: OIL \_\_\_\_\_ BPD. WATER \_\_\_\_\_ BPD. GAS \_\_\_\_\_ MCFD \_\_\_\_\_

COMPLETION DATE \_\_\_\_\_ MUD TYPE \_\_\_\_\_ MUD WT. \_\_\_\_\_

PACKER TYPE \_\_\_\_\_ SET AT \_\_\_\_\_

BOTTOM HOLE TEMP. \_\_\_\_\_ PRESSURE \_\_\_\_\_

MISC. DATA \_\_\_\_\_ TOTAL DEPTH 1107

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<u>0</u>	<u>22.86</u>	<u>16</u>	<u>1404</u>		
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

## JOB DATA

### TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <u>1 7/8" x 47'</u>	<u>1</u>	<u>H-70</u>
FLOAT SHOE		
GUIDE SHOE <u>1 7/8" x 47'</u>	<u>1</u>	<u>"</u>
CENTRALIZERS <u>3/4" x 11"</u>	<u>4</u>	<u>"</u>
BOTTOM PLUG		
TOP PLUG <u>1 1/4" x 47'</u>	<u>1</u>	<u>"</u>
HEAD		
PACKER		
OTHER <u>C-100</u>	<u>2</u>	<u>"</u>

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>7/19/92</u>	DATE <u>7/19/92</u>	DATE <u>7/19/92</u>	DATE <u>7/19/92</u>
TIME <u>0600</u>	TIME <u>0645</u>	TIME <u>1100</u>	TIME <u>2015</u>

### PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>R. L. ...</u>	<u>6-2</u>	<u>Midway</u>
<u>W. D. ...</u>	<u>114</u>	<u>"</u>
<u>D. J. ...</u>	<u>4-4</u>	<u>"</u>
<u>A. C. ...</u>	<u>0530</u>	<u>11/1/92</u>
	<u>4-15</u>	<u>"</u>
	<u>5012</u>	<u>"</u>

### MATERIALS

TREAT. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB/GAL.-API \_\_\_\_\_

DISPL. FLUID \_\_\_\_\_ DENISTY \_\_\_\_\_ LB/GAL.-API \_\_\_\_\_

PROP. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB. \_\_\_\_\_

PROP. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB. \_\_\_\_\_

ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ % \_\_\_\_\_

ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ % \_\_\_\_\_

ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ % \_\_\_\_\_

SURFACTANT TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ IN \_\_\_\_\_

NE AGENT TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ IN \_\_\_\_\_

FLUID LOSS ADD. TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN \_\_\_\_\_

GELLING AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN \_\_\_\_\_

FRIC. RED. AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN \_\_\_\_\_

BREAKER TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN \_\_\_\_\_

BLOCKING AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_

PERFPAC BALLS TYPE \_\_\_\_\_ QTY. \_\_\_\_\_

OTHER \_\_\_\_\_

OTHER \_\_\_\_\_

DEPARTMENT Oil

DESCRIPTION OF JOB 1 1/2" x 47' ...

JOB DONE THRU: TUBING  CASING  ANNULUS  TBG/ANN.

CUSTOMER REPRESENTATIVE X Frank Brunell

HALLIBURTON OPERATOR R. D. ... COPIES REQUESTED \_\_\_\_\_

## CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>450</u>	<u>110</u>		<u>450</u>	<u>7110</u>	<u>1.16</u>	<u>11.6</u>
	<u>100</u>	<u>10-40</u>		<u>100</u>	<u>7110</u>	<u>1.22</u>	<u>11.6</u>

### PRESSURES IN PSI

### SUMMARY

### VOLUMES

CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_ PRESLUSH: BBL.-GAL. \_\_\_\_\_ TYPE \_\_\_\_\_

BREAKDOWN \_\_\_\_\_ MAXIMUM \_\_\_\_\_ LOAD & BKDN: BBL.-GAL. \_\_\_\_\_ PAD: BBL.-GAL. \_\_\_\_\_

AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_ TREATMENT: BBL.-GAL. \_\_\_\_\_ DISPL: BBL.-GAL. \_\_\_\_\_

SHUT-IN: INSTANT \_\_\_\_\_ 5-MIN. \_\_\_\_\_ 15-MIN. \_\_\_\_\_ CEMENT SLURRY: BBL.-GAL. 1.15

ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_ TOTAL VOLUME: BBL.-GAL. \_\_\_\_\_

AVERAGE RATES IN BPM \_\_\_\_\_

TREATING \_\_\_\_\_ DISPL. \_\_\_\_\_ OVERALL \_\_\_\_\_

CEMENT LEFT IN PIPE \_\_\_\_\_

FEET 40' REASON SLURRY

### REMARKS

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JUN 8 1992  
CONSERVATION DIVISION  
Wichita, Kansas

CUSTOMER \_\_\_\_\_  
 LEASE \_\_\_\_\_  
 WELL NO. \_\_\_\_\_  
 JOB TYPE \_\_\_\_\_  
 DATE \_\_\_\_\_

**JOB LOG**

WELL NO. 1 LEASE Hg. 100 TICKET NO. 179534  
 CUSTOMER American Wind PAGE NO. 1  
 JOB TYPE Shutdown DATE 4-17-92

FORM 2013 R-2

ORIGINAL

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0600							Call out
	0645							on loc. Ry. D. 11, 12' going to 1405'
	1:00							1.500 + 1.000 gal
	16:00							1000' of Casing in hole
								6.6 lbs + 7.000
								Casing on "1", "3", "12"
								Casing on "13", "14"
	1:10							Drop P.H.
	1:20							Point casing 1400' with Ry. pump
	1:25	65	1474			300		Start on 40' Pz 1115' 7' 1112, 1116
			341					100' to 40' Pz 2166, 2168, 2171, 2174
	1:35							Finished mixing out Ry. 11, 12, and D. 11
	1:43	65				40		Running 40' Pz
						650		Pl. 1112 65' in hole
								Ry. 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

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JUN 8 1992

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CONSERVATION DIVISION  
Wichita, Kansas