

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
September 1999  
Form Must Be Typed

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

ORIGINAL

Operator: License # 30535  
Name: Hartman Oil Co., Inc.  
Address: 1223 N. Rock Rd. Bldg. A Suite 200  
City/State/Zip: Wichita, KS 67206-1270  
Purchaser: \_\_\_\_\_  
Operator Contact Person: Stan Mitchell  
Phone: (316) 272-3988  
Contractor: Name: Cheyenne Drilling Company  
License: 5382  
Wellsite Geologist: N/A

Designate Type of Completion:  
 New Well  Re-Entry  Workover  
 Oil  SWD  SLOW  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-entry: Old Well Info as follows:  
Operator: \_\_\_\_\_  
Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_  
 Deepening  Re-perf.  Conv. to Enhr./SWD  
 Plug Back \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_  
 Commingled \_\_\_\_\_ Docket No. \_\_\_\_\_  
 Dual Completion \_\_\_\_\_ Docket No. \_\_\_\_\_  
 Other (SWD or Enhr.?) \_\_\_\_\_ Docket No. \_\_\_\_\_

10/7/00 10/9/00 11/9/00  
Spud Date or Date Reached TD Completion Date or  
Recompletion Date

API No. 15 - 055-21692-0000  
County: Finney  
SW-SW-SE Sec. 25 Twp. 22 S. R. 33  East  West  
1322 feet from  N (circle one) Line of Section  
2534 feet from  W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE  SE NW SW  
Lease Name: Holsted-Thomason Well #: A-1  
Field Name: Chase  
Producing Formation: Krider-Herrington-Winfield  
Elevation: Ground: 2858' Kelly Bushing: 2863'  
Total Depth: 2810' Plug Back Total Depth: 2777'  
Amount of Surface Pipe Set and Cemented at 258' Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from 2809'  
feet depth to surface w/ 675 sx cmt.

Drilling Fluid Management Plan ALT 1 9/8 5/4/01  
(Data must be collected from the Reserve Pit)  
Chloride content \_\_\_\_\_ ppm Fluid volume \_\_\_\_\_ bbls  
Dewatering method used \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License No.: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County \_\_\_\_\_ 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 of 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: S.T. Mitchell  
Title: Production Supervisor Date: 1/17/01  
Subscribed and sworn to before me this 17th day of January,  
2001.  
Notary Public: Mary A. Siracuse  
Date Commission Expires: September 5, 2001

**KCC Office Use ONLY**  
 Letter of Confidentiality Attached  
 If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
KCC

MARY A. SIRACUSE  
Notary Public - State of Kansas  
My Appt. Expires 9/5/01

X

Operator Name: Hartman Oil Co., Inc. Lease Name: Holsted-Thomason Well #: A-1  
 Sec. 25 Twp. 22 S. R. 33  East  West County: Finney

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems 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 test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i>  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 <i>(Submit Copy)</i>  List All E. Logs Run: Dual compensated porosity Dual induction CBL	<input checked="" type="checkbox"/> Log    Formation (Top), Depth and Datum <input type="checkbox"/> Sample  <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Datum</th> </tr> </thead> <tbody> <tr> <td>Hollenberg</td> <td>2518</td> <td>+345</td> </tr> <tr> <td>Herrington</td> <td>2540</td> <td>+323</td> </tr> <tr> <td>Krider</td> <td>2558</td> <td>+305</td> </tr> <tr> <td>Winfield</td> <td>2608</td> <td>+255</td> </tr> </tbody> </table>	Name	Top	Datum	Hollenberg	2518	+345	Herrington	2540	+323	Krider	2558	+305	Winfield	2608	+255
Name	Top	Datum														
Hollenberg	2518	+345														
Herrington	2540	+323														
Krider	2558	+305														
Winfield	2608	+255														

CASING RECORD <input 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	# Sacjs Used	Type and Percent Additives
Surface	12 1/4"	8 5/8"	23#	258	Common	165	3% GELT 5CC
Production	7 7/8"	5 1/2"	15.5#	2809	Lite	450	1/2# Flo Seal
					ASC	125	5# Kol-Seal
					Common	100	

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input checked="" type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	890	Class A	200	6 SKS CC

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	2518-20' Hollenberg	65% N2 Foam	
1/SPF	2548-64' Krider	" " "	
2/SPF	2608-16' Winfield	" " "	

TUBING RECORD	Size 2 3/8	Set At 2753'	Packer At N/A	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First, Resumerd Production, SWD or Enhr. 01/09/01	Producing Method <input checked="" type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
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Estimated Production Per 24 Hours	Oil    Bbls:	Gas    Mcf	Water    Bbls.	Gas-Oil Ratio	Gravity
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Disposition of Gas    METHOD OF COMPLETION    Production Interval

Vented     Sold     Used on Lease     Open Hole     Perf.     Dually Comp.     Commingled  
*(If vented, Summit ACO-18.)*     Other (Specify) \_\_\_\_\_

ORIGINAL

15-055-21692-0000

L. Hartman Well & Pulling ReportDate: 10/8/00 - 11-9-00Lease Holsted-Thomssen Well A-1 County Finney State Ks.Well Servicing Co. Chyenne Well ServiceWELL RECORD

PULLED DESCRIPTION	EQUIPMENT	RUN DESCRIPTION
	Rods - Size	
	Number - Kind	109-3/4"
	Rod Subs	
	Number - Length	2, 4' X 3/4"
	Polish Rod	1 1/4 X 16'
	Gas Anchor	1" X 6'
	Pump	
	No. & Size	2 X 1 1/4 X 12
	Standing Valve	
	Traveling Valve	
	Tubing Size	
	No. Jts. - Tally	88 Jts 2 3/8"
	Tubing Subs	
	Number - Length	
	Anchor & Perf.	
	Working Barrel	
	Seating Nipple	2 3/8" X
	Special	
	Equipment	2 3/8" X 15' mud Anchor

Complete Remarks on Job: RAN CBL - TOC @ 890 - Perforated 1' 4/SF  
@ 890' - Allied Cement Pump 15 SX GEL + 100 SX Lite w/ 1/4" Flaseal  
+ 100 SX class A w/ 2% CC - Drop Plug Displaced w/ 20 3/4 Bbl - Cement  
circulated (10-20-00) Tag cement @ 830' - Drilled out 60' - PSI Test  
PMP in @ 1/2 BPM @ 500 # (10/21/00) R/LH w/ PKR on 2 3/8" TEG - PSI ESG Annular  
500 # - PKR @ 730' - Squeezed w/ 100 SX class A w/ 3% CC to 750 #

(10/23/00) - R/H w/4 7/8" Bit - Tag cement @ 745 - Drilled 145' Hard cement -  
 PSI Test to 600# (Good) - Swab well down to 2050' - (10/24/00) LOG  
 TGLH - Per Forsted WinField @ 2608 - 2616 2/SPF - Herrington-Krider @ 2548 -  
 2554 1/SPF - Hollenburg @ 2518 - 20 2/SPF - R/H w/PIR - SPOT ACID  
 Across WinField - Set PRR Above WinField - Broke DN @ 520# - Treated  
 @ 3 BPM @ 300# (400 GAL 7 1/2% ACID) - Isolate - Hollenburg +  
 Herrington-Krider - RBP @ 2590' PRR @ 2477' - Acidized w/600 GAL 7 1/2% FE  
 Broke DOWN @ 670# - Treated @ 8 BPM @ 1230# - R/H w/Swab - TBG Swab Dry

(Good show of GAS) (10/28/00) Halliburton Frac w/ 65% N2 Foam + 30,300# SD

1) Pad	6000 GAL	65%	N2 Foam			17.1 BPM @ 2110#
2)	3000 GAL	"	"	1 lb/gal	16/30	20.7 BPM @ 1803#
3)	3000 GAL	"	"	2 lb/gal	16/30	20.5 BPM @ 1811#
4)	3000 GAL	"	"	3 lb/gal	16/30	20.2 BPM @ 2033#
5)	3000 GAL	"	"	4 lb/gal	16/30	20.4 BPM @ 2490#
6) Flush	350 GAL	"	"	"	"	20.4 BPM @ 2143#

11/7/00 - MIRR - Blew well down - Released PRR - POOH - 11/8/00 - R/H w/  
 sand Pump - clean sand OFF RBP - R/H w/catcher - Released RBP - POOH  
 R/H w/sand Pump checked PSTD - 11/9/00 Blew well down - R/H  
 w/MA, SN, 88 Sts 2 3/8" TBG - R/H w/2'x1 1/4"x12' RWBC (NEW) Pump + Rods  
 Load TBG - PSI to 200# (OK)

Hartman Oil

PSW Reports

Page 1

Customer: Hartman Oil      Date: 28-Oct-2000  
Well Desc.: A-1      Ticket #: 953097  
Formation: Chase Group      Job Type: N2 Foam Frac

*This report is based on sound engineering practices, but because of variable well conditions and other information which must be relied on, Halliburton makes no warranty, expressed or implied, as to the accuracy of the data or of any calculations or opinions expressed herein. You agree that Halliburton shall not be liable for any loss or damage, whether due to negligence or otherwise arising out of or in connection with such data, calculations or opinions.*

**HALLIBURTON ENERGY SERVICES  
SOLUTIONS IN ACTION!**

STAGE 1	Planned	Actual	SUMMARY	@Surface	@Perfs
Clean Volume (gal)	2100.0	2236.8	Treating Pressure Avg/Max (psi)	1574 / 2069	1574 / 2069
Slurry Volume (gal)	2100.0	2256.7	BHTP Avg/Max (psi)	1326 / 2110	1326 / 2110
Start Fluid Rate (bbl/min)	7.0	0.0	Total Avg. Rate (bbl/min)	13.7	17.1
End Fluid Rate (bbl/min)	7.0	7.3	Avg. HHP (hp)	248.5	
Start N2 Std. Rate (ft <sup>3</sup> /min)		2547	Avg. N2 Std. Rate (ft <sup>3</sup> /min)	4617.03	
End N2 Std. Rate (ft <sup>3</sup> /min)		5602	Avg. N2 Quality & IPF (%)	59.5 - 59.7	67.0 - 67.1
Friction Model	N2 Foam				
Description : Pad					

STAGE 2	Planned	Actual	SUMMARY	@Surface	@Perfs
Clean Volume (gal)	1098.0	1108.1	Treating Pressure Avg/Max (psi)	2033 / 2075	2033 / 2075
Slurry Volume (gal)	1234.7	1255.2	BHTP Avg/Max (psi)	1697 / 1803	1697 / 1803
Start Fluid Rate (bbl/min)	7.9	7.3	Total Avg. Rate (bbl/min)	14.5	20.7
End Fluid Rate (bbl/min)	7.9	8.1	Avg. HHP (hp)	392.8	
Sand	16/30	0.04560 (gal/lb)	Prop in Wellbore (lb)	1176.9	
Start Conc (lb/gal)	2.73	1.88	Avg. Prop Concentration (lb/gal)	1.49	0.77
End Conc (lb/gal)	2.73	4.98	Prop in Formation (lb)	2488.3	
Start N2 Std. Rate (ft <sup>3</sup> /min)		5602	Avg. N2 Std. Rate (ft <sup>3</sup> /min)	5240.44	
End N2 Std. Rate (ft <sup>3</sup> /min)		5177	Avg. N2 Quality & IPF (%)	48.8 - 52.1	63.8 - 65.0
Friction Model	N2 Foam				
Description : 1# Sand					

STAGE 3	Planned	Actual	SUMMARY	@Surface	@Perfs
Clean Volume (gal)	1145.0	1135.5	Treating Pressure Avg/Max (psi)	2041 / 2140	2041 / 2140
Slurry Volume (gal)	1418.6	1436.5	BHTP Avg/Max (psi)	1641 / 1811	1641 / 1811
Start Fluid Rate (bbl/min)	8.7	8.1	Total Avg. Rate (bbl/min)	14.9	20.5
End Fluid Rate (bbl/min)	8.7	8.7	Avg. HHP (hp)	434.3	
Sand	16/30	0.04560 (gal/lb)	Prop in Wellbore (lb)	1873.2	
Start Conc (lb/gal)	5.24	5.01	Avg. Prop Concentration (lb/gal)	3.06	1.94
End Conc (lb/gal)	5.24	6.75	Prop in Formation (lb)	8376.9	
Start N2 Std. Rate (ft <sup>3</sup> /min)		5176	Avg. N2 Std. Rate (ft <sup>3</sup> /min)	4845.87	
End N2 Std. Rate (ft <sup>3</sup> /min)		4789	Avg. N2 Quality & IPF (%)	47.4 - 53.8	62.4 - 65.5
Friction Model	N2 Foam				
Description : 2# Sand					

STAGE 4	Planned	Actual	SUMMARY	@Surface	@Perfs
Clean Volume (gal)	1193.0	1178.1	Treating Pressure Avg/Max (psi)	2243 / 2308	2243 / 2308
Slurry Volume (gal)	1603.7	1604.1	BHTP Avg/Max (psi)	1927 / 2033	1927 / 2033
Start Fluid Rate (bbl/min)	9.4	8.7	Total Avg. Rate (bbl/min)	14.5	20.2
End Fluid Rate (bbl/min)	9.4	9.3	Avg. HHP (hp)	507.2	
Sand	16/30	0.04560 (gal/lb)	Prop in Wellbore (lb)	2578.3	
Start Conc (lb/gal)	7.55	6.79	Avg. Prop Concentration (lb/gal)	4.44	2.82
End Conc (lb/gal)	7.55	9.09	Prop in Formation (lb)	16988.4	
Start N2 Std. Rate (ft <sup>3</sup> /min)		4789	Avg. N2 Std. Rate (ft <sup>3</sup> /min)	4514.88	
End N2 Std. Rate (ft <sup>3</sup> /min)		4475	Avg. N2 Quality & IPF (%)	44.0 - 53.4	60.9 - 65.4
Friction Model	N2 Foam				
Description : 3# Sand					

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STAGE 5	Planned	Actual	SUMMARY	@Surface	@Perfs
Clean Volume (gal)	1240.0	1331.5	Treating Pressure Avg/Max (psi)	2382 / 2496	2382 / 2496
Slurry Volume (gal)	1787.3	1760.5	BHTP Avg/Max (psi)	2630 / 3066	2630 / 3066
Start Fluid Rate (bbl/min)	10.1	9.3	Total Avg. Rate (bbl/min)	14.9	20.4
End Fluid Rate (bbl/min)	10.1	10.8	Avg. HHP (hp)	596.9	
Sand	16/30	0.04560 (gal/lb)	Prop in Wellbore (lb)	1006.8	
Start Conc (lb/gal)	9.68	9.22	Avg. Prop Concentration (lb/gal)	4.59	3.67
End Conc (lb/gal)	9.68	1.25	Prop in Formation (lb)	28000.1	
Start N2 Std. Rate (ft <sup>3</sup> /min)		4475	Avg. N2 Std. Rate (ft <sup>3</sup> /min)	4210.47	
End N2 Std. Rate (ft <sup>3</sup> /min)		4182	Avg. N2 Quality & IPF (%)	38.3 - 48.5	58.6 - 64.5
Friction Model	N2 Foam				
Description : 4# Sand					

STAGE 6	Planned	Actual	SUMMARY	@Surface	@Perfs
Clean Volume (gal)	190.0	453.5	Treating Pressure Avg/Max (psi)	2082 / 2143	2082 / 2143
Slurry Volume (gal)	190.0	467.5	BHTP Avg/Max (psi)	2329 / 2615	2329 / 2615
Start Fluid Rate (bbl/min)	7.0	10.8	Total Avg. Rate (bbl/min)	15.6	20.4
End Fluid Rate (bbl/min)	7.0	0.0	Avg. HHP (hp)	539.4	
None	None	0.00000 (gal/lb)	Prop in Wellbore (lb)	280.7	
Start Conc (lb/gal)	0.00	1.23	Avg. Prop Concentration (lb/gal)	0.46	1.15
End Conc (lb/gal)	0.00	0.00	Prop in Formation (lb)	29042.0	
Start N2 Std. Rate (ft <sup>3</sup> /min)		4182	Avg. N2 Std. Rate (ft <sup>3</sup> /min)	4112.71	
End N2 Std. Rate (ft <sup>3</sup> /min)		0	Avg. N2 Quality & IPF (%)	32.8 - 33.7	49.9 - 52.3
Friction Model	N2 Foam				
Description : Flush					

STAGE 7	Planned	Actual	SUMMARY	@Surface	@Perfs
Clean Volume (gal)	0.0	0.1	Treating Pressure Avg/Max (psi)	627 / 631	627 / 631
Slurry Volume (gal)	0.0	0.1	BHTP Avg/Max (psi)	1221 / 1226	1221 / 1226
Start Fluid Rate (bbl/min)	0.0	0.0	Total Avg. Rate (bbl/min)	0.0	0.0
End Fluid Rate (bbl/min)	0.0	0.0	Avg. HHP (hp)	0.4	
None	None	0.00000 (gal/lb)	Prop in Wellbore (lb)	280.7	
Start Conc (lb/gal)	0.00	0.00	Avg. Prop Concentration (lb/gal)	0.00	0.62
End Conc (lb/gal)	0.00	0.00	Prop in Formation (lb)	29042.0	
Friction Model	N2 Foam				
Description : Monitor Pressure					

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Time	Description
08:34:07	Test Lines Saturday October 28, 2000
08:55:53	Start Job
08:57:40	Stage Change Stage 1 - Pad
09:07:29	Stage Change Stage 2 - 1# Sand
09:11:11	BH Proppant Conc 1.01 lb/gal
09:11:16	Stage Change Stage 3 - 2# Sand
09:12:43	BH Proppant Conc 2.01 lb/gal
09:15:13	Stage Change Stage 4 - 3# Sand
09:17:01	BH Proppant Conc 3.01 lb/gal
09:19:21	Stage Change Stage 5 - 4# Sand
09:21:09	BH Proppant Conc 4.02 lb/gal
09:23:09	BH Proppant Conc 2.84 lb/gal
09:23:27	Stage Change Stage 6 - Flush
09:23:32	BH Proppant Conc 1.81 lb/gal
09:24:10	BH Proppant Conc 0.81 lb/gal
09:25:15	Stage Change Stage 7 - Monitor Pressure
09:26:00	ISIP 1100 PSI
09:30:12	5 MINUTE SHUT IN 690 PSI
09:33:10	10 MINUTE SHUT IN 640 PSI
09:38:06	15 MINUTE SHUT IN 570 PSI
09:39:46	LOAD TO RECOVER 178 BBL
09:40:09	N2 DOWNHOLE 125000 SCF
09:40:26	TOTAL SAND 303 SK
09:40:43	MAX PRESSURE 2500 PSI
09:41:21	AVERAGE PRESSURE 2150 PSI
09:41:37	AVERAGE RATE 20 BPM
09:41:44	End Job



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**PRESSURE**

Stage	Tubing Pressure psi (avg/max)	Calc'd BH Pressure psi (avg/max)	Friction Pressure psi (avg/max)	Hydraulic Horsepower hp (avg/max)	Bldr 1 WLC-6 lb/1000 (avg/max)	Bldr 1 OPT lb/1000 (avg/max)
1	1624 / 2069	1339 / 2110	806 / 1055	301.9 / 368.8	122.90 / 181.30	.077 / 3.55
2	2034 / 2075	1698 / 1803	1080 / 1197	393.1 / 406.1	24.18 / 131.43	0.00 / 0.00
3	2041 / 2140	1641 / 1811	1283 / 1314	434.7 / 456.9	0.02 / 0.25	0.00 / 0.00
4	2243 / 2308	1927 / 2033	1343 / 1373	508.4 / 527.6	0.04 / 0.26	0.00 / 0.00
5	2382 / 2496	2630 / 3066	905 / 1524	598.7 / 650.2	0.04 / 0.49	0.00 / 0.00
6	2082 / 2143	2329 / 2615	635 / 657	547.9 / 565.4	0.00 / 0.24	0.00 / 0.00
7	627 / 631	1221 / 1226	0 / 0	0.2 / 0.5	0.00 / 8.66	0.00 / 0.00
Totals:	(1862/2496)	(1826/3066)	(865/1524)	(397.9/650.2)	(21.03/181.30)	(0.11/3.55)

**RATE**

Stage	BH Foam Rate bbl/min (avg/max)	Standard N2 Rate ft <sup>3</sup> /min (avg/max)	Slurry Rate bbl/min (avg/max)	Bldr 1 AQF gal/1000 (avg/max)	Bldr 1 GBW gal/1000 (avg/max)	Bldr 1 SSO gal/1000 (avg/max)	Bldr 1 Clayfix gal/1000 (avg/max)
1	17.3 / 21.1	4690.40 / 5640.00	5.7 / 7.4	4.84 / 7.92	0.98 / 3.80	1.92 / 3.63	1.92 / 4.03
2	20.7 / 21.0	5240.72 / 5602.62	7.9 / 8.1	4.97 / 6.16	0.97 / 1.23	1.97 / 2.47	1.97 / 2.47
3	20.5 / 21.0	4847.26 / 5176.52	8.7 / 8.8	4.96 / 5.74	0.97 / 1.16	1.96 / 2.34	1.96 / 2.34
4	20.2 / 20.3	4514.88 / 4788.69	9.2 / 9.4	4.96 / 5.82	0.97 / 1.13	1.98 / 3.45	1.97 / 2.50
5	20.4 / 21.0	4210.47 / 4474.92	10.2 / 10.8	4.92 / 5.32	0.96 / 1.06	4.89 / 5.45	1.95 / 2.14
6	20.4 / 21.0	4112.71 / 4185.82	10.5 / 10.9	4.92 / 5.05	0.96 / 1.00	4.91 / 5.07	1.95 / 2.02
7	0.0 / 0.0	0.00 / 0.00	0.0 / 0.0	0.00 / 0.00	0.00 / 0.00	0.00 / 0.00	0.00 / 0.00
Totals:	(17.1/21.1)	(3945.21/5640.00)	(7.5/10.9)	(4.22/7.92)	(0.83/3.80)	(2.52/5.45)	(1.68/4.03)

**VOLUME**

Stage	Stage Clean Vol gal	Job Clean Vol gal	Job Slurry Vol gal	Stage Slurry Vol gal	Job Standard N2 Vol ft <sup>3</sup>
1	2236.8	2234.5	2254.1	2256.7	45255.4
2	1108.1	3344.9	3511.9	1255.2	65172.3
3	1135.5	4478.1	4945.4	1436.5	84235.7
4	1178.1	5653.9	6546.1	1604.1	102899.1
5	1331.5	6982.9	8305.5	1760.5	120163.6
6	453.5	7443.5	8780.5	467.5	124516.5
7	0.1	7443.6	8780.6	0.1	124516.5
Totals:	(7443.6)	(7443.6)	(8780.6)	(8780.6)	(124516.5)

**PROP**

Stage	Proppant Conc lb/gal (avg/max)	BH Proppant Conc lb/gal (avg/max)	Job Proppant Pumped sack	Stage Proppant Pumped sack	Proppant In Formation sack	Proppant In Wellbore sack
1	0.21 / 1.85	0.01 / 0.15	4.3	4.4	0.7	3.6
2	2.93 / 4.92	0.78 / 1.04	36.7	32.3	24.9	11.8
3	5.81 / 6.75	1.95 / 2.24	102.5	66.0	83.8	18.7
4	7.94 / 9.09	2.83 / 3.20	195.7	93.4	169.9	25.8
5	7.48 / 10.21	3.68 / 4.27	290.1	94.1	280.0	10.1
6	0.68 / 1.23	1.15 / 2.07	293.2	3.1	290.4	2.8
7	0.00 / 0.00	0.62 / 0.74	293.2	0.0	290.4	2.8
Totals:	(3.58/10.21)	(1.57/4.27)	(293.2)	(293.2)	(290.4)	(2.8)

15-055-21692-0000

Time of Day	Tubing Pressure	Calc'd BH Pressure	BH Foam Rate	BH Proppant Conc	Slurry Rate	Standard N2 Rate
	psi	psi	bbl/min	lb/gal	bbl/min	ft <sup>3</sup> /min
08:55:53	0	0	0.0	0.00	0.0	544.80
08:56:53	8	1095	0.0	0.00	1.5	0.00
08:57:53	289	794	11.4	0.00	0.0	2563.30
08:58:53	700	472	9.9	0.00	3.7	2540.68
08:59:53	1042	915	9.6	0.00	3.5	2548.65
09:00:53	1432	1118	14.8	0.00	4.8	4112.17
09:01:53	1717	1863	14.1	0.01	0.1	5626.93
09:02:53	2069	1628	20.9	0.01	7.2	5599.10
09:03:53	1998	1680	21.1	0.00	7.3	5605.84
09:04:53	1996	1678	21.1	0.03	7.3	5603.44
09:05:53	2012	1697	21.1	0.03	7.4	5602.85
09:06:53	2032	1726	21.0	0.02	7.3	5606.13
09:07:53	2056	1748	20.5	0.33	7.7	5247.07
09:08:53	2060	1745	20.6	0.78	7.9	5204.77
09:09:53	2041	1713	20.6	0.92	7.9	5217.19
09:10:53	1955	1559	20.7	0.96	8.1	5181.56
09:11:53	1980	1544	20.4	1.46	8.5	4860.70
09:12:53	2015	1596	20.5	2.20	8.8	4801.23
09:13:53	2075	1701	20.4	2.23	8.8	4792.85
09:14:53	2124	1782	20.4	2.20	8.7	4789.22
09:15:53	2154	1868	19.7	2.28	8.7	4512.89
09:16:53	2248	1924	20.2	2.82	9.4	4478.67
09:17:53	2266	1948	20.3	3.05	9.4	4472.87
09:18:53	2288	1985	20.2	3.15	9.4	4473.81
09:19:53	2363	2082	19.9	3.21	9.7	4221.39
09:20:53	2484	3000	20.8	3.86	10.7	4184.53
09:21:53	2495	3059	20.6	4.26	10.5	4177.21
09:22:53	2285	2678	20.9	3.91	10.7	4179.79
09:23:53	2093	2321	21.0	1.19	10.8	4184.06
09:24:53	1005	1837	0.0	0.75	0.0	0.00
09:25:53	852	1682	0.0	0.73	0.0	0.00
09:26:53	788	1619	0.0	0.72	0.0	0.00
09:27:53	748	1577	0.0	0.71	0.0	0.00
09:28:53	716	1545	0.0	0.70	0.0	0.00
09:29:53	692	1522	0.0	0.70	0.0	0.00
09:30:53	671	1501	0.0	0.70	0.0	0.00
09:31:53	655	1485	0.0	0.69	0.0	0.00
09:32:53	636	1466	0.0	0.69	0.0	0.00
09:33:53	624	1218	0.0	0.64	0.0	0.00
09:34:53	611	1201	0.0	0.63	0.0	0.00
09:35:53	598	1188	0.0	0.63	0.0	0.00
09:36:53	584	1174	0.0	0.63	0.0	0.00
09:37:53	570	1160	0.0	0.62	0.0	0.00
09:38:53	559	1149	0.0	0.62	0.0	0.00
09:39:53	43	634	0.0	0.45	0.0	0.00
09:40:53	29	619	0.0	0.44	0.0	0.00

# WYENNE WELL SERVICE ORIGINAL

P.O. Box 384 Phone 785-798-2282  
 NESS CITY, KANSAS 67560

No 1649 E

API # 15-055-21692-0000

Company Hartman Oil Co 10-20 19-2000  
 Lease Husted Thompson Well No. A 10-24 19-2000

JTS.	PULLED FROM WELL	EQUIPMENT	JTS.	RAN IN WELL
		POLISHED ROD		
		RODS		
		PONY RODS		
		PUMP		
		TUBING		
		TUBING SUBS		
		BARREL		
		ANCHOR		

RECORD OR ROD BREAKS 109-34" New ( ) USED ( )

SIZE & TYPE OF ROD	KIND OF BREAK	NO. OF RODS DEEP	SIZE & TYPE REPLACEMENT
		2, 4	x 1/4"

### RECORD OF TUBING FAILURE 1 1/2" x 16'

Found Hole ( ) Split ( ) Collar Leak ( ) In. Jt. ( ) Length ( )  
 Replaced With New ( ) B Grade ( ) Size \_\_\_\_\_ Length ( )

	SIZE	GOOD	MILDLY * / BADLY *		CHECK IF PRESENT	
			PITTED	PITTED	SCALE	PARAFFIN
Visual Condition of:						
	Rods					
	Rods					
	Tubing					

Remarks Fri 10/20 Arrive to loc. - rigged up - tall bit  
 ran bit, change over to 27 jts - rigged up surface - drill 60'  
 cement - circ clean - test - pulled tubing & bit - Finished  
 putting guy wires - Home (10 hrs)

Sat 10/21 Arrive to loc. - ran packer 27 jts - set  
 packer - rigged up All the cementing - cement - reverse out  
 - pulled tubing & packer - pressured casing 2 1/2" x 16" mud anchor (8 hrs)

Mon 10/23 Arrive to loc. - increased pressure - ran bit &  
 tubing - drilled 145' hard cement to 40' of drift - test -  
 good - ran tubing to bottom - rigged up tubing subs - scrubbed  
 down to 2050' - pulled 89 jts & bit - Home (14 hrs)

1/57 = 2548-24 hoider  
 2/57 = 2402-16 windrod

UNIT	HRS.	PER HRS.	AMOUNT
OPERATOR			
FLOORHANDS			
SWAB CUPS <sup>53'</sup>			
NO. USED			
TYPE			
R-25	1		27.45
BX-25	1		21.75
OIL SAVER RUBBERS	2		28.50
SAND PUMP			
TONGS			
POWER SUB			
REVERSE CIRCULATOR			
DRILLING HEAD			
DRILLING HEAD RUBBER			
DIESEL FUEL and PAINT			
TOTAL			

Approved by \_\_\_\_\_

PLEASE PAY BY INVOICE.  
 NO STATEMENT WILL BE SENT

# WEYENNE WELL SERVICE ORIGINAL

P.O. Box 384 Phone 785-798-2262  
 NESS CITY, KANSAS 67560

No 1650 E

Company Hartman Oil Co. 10 - 20 19-2000  
 Lease Holstad Thomasen Well No. A #1 10 - 24 192000

JTS.	PULLED FROM WELL	EQUIPMENT	JTS.	RAN IN WELL
		POLISHED ROD		
		RODS		
		PONY RODS		
		PUMP		
		TUBING		
		TUBING SUBS		
		BARREL		
		ANCHOR		

RECORD OR ROD BREAKS New ( ) USED ( )

SIZE & TYPE OF ROD	KIND OF BREAK	NO. OF RODS DEEP	SIZE & TYPE REPLACEMENT

RECORD OF TUBING FAILURE

Found Hole ( ) Split ( ) Collar Leak ( ) In. Jt. ( ) Length ( )  
 Replaced With New ( ) B Grade ( ) Size \_\_\_\_\_ Length ( )

Visual Condition of:		SIZE	GOOD	MILDLY PITTED	BADLY PITTED	CHECK IF PRESENT	
						SCALE	PARAFFIN
Rods	Rods						
	Rods						
	Tubing						

Remarks Trs 10/24 Move to loc - picked up perforators -  
port (port had problems) - ran plug, packer & 85jts - set plug  
- set acid - pull lit - set packer - acidize - got plug -  
pull lit - set plug - pulled 4jts - set packer - acidize -  
swabbed down - made 6 runs - tie down swab - rigged down  
cleaned loc & left.

13 1/2 hrs

Thank You!! Gary Rob  
Jeremy Weary  
Kahl Schneider  
 Rig #25

		HRS.	PER HRS.	AMOUNT
UNIT		35 1/2	125.00	4437.50
OPERATOR				
FLOOR HANDS				
SWAB CUPS	NO. USED	TYPE		
OIL SAVER RUBBERS				
SAND PUMP				
TONGS X		14	10.00	140.00
POWER SUB				
REVERSE CIRCULATOR	<u>Pickup &amp; Crew</u>	10 1/2	75.00	787.50
DRILLING HEAD	PLEASE PAY BY INVOICE			
DRILLING HEAD RUBBER	NO STATEMENT WILL BE SENT			
DIESEL FUEL and PAINT				
TOTAL				\$5,437.70

Approved by S.T. Mitchell 11/4/00

# CIEYENNE WELL SER ICE

P.O. Box 384 Phone 785-798-2282  
NESS CITY, KANSAS 67560

15-055-21692-0000  
**ORIGINAL**

No 1658 E

Company Hartman Oil Co. 11-7 192000  
Lease Holstead Thomas Well No. A #1 11-9 192000

JTS.	PULLED FROM WELL	EQUIPMENT	JTS.	RAN IN WELL
		POLISHED ROD	1	1 1/4" X 16'
		RODS	109	3/4"
		PONY RODS		1-2' 1-4'
		PUMP	1	2" X 1 1/4" X 12'
		TUBING	88	2 3/8"
		TUBING SUBS		
		BARREL		
		ANCHOR		

### RECORD OR ROD BREAKS

SIZE & TYPE OF ROD	KIND OF BREAK	NO. OF RODS DEEP	SIZE & TYPE REPLACEMENT

### RECORD OF TUBING FAILURE

Found Hole ( )	Split ( )	Collar Leak ( )	In. Jt. ( )	Length ( )
Replaced With New ( )	B Grade ( )	Size	Length ( )	

Visual Condition of:	Rods	SIZE	GOOD	MILDLY PITTED	BADLY PITTED	CHECK IF PRESENT	
						SCALE	PARAFFIN

Remarks Tues 11/7 Drove to loc - rigged up - blew well down - unpacked head & pulled slips - released packer - ran 4 jts - hooked up water truck to circ sand off of plug - couldn't get on plug - pulled 83 jts & packer - shut well in - Home (12/15)

Wed 11/8 Drove to loc - rigged up sand pump - sand pumped off of plug - ran gatcher & 84 jts - got on plug - released plug - pulled & laid down on trailer 84 jts tubing & plug - ran sand pump 9 X - shut well in - Home (14/15)

Thurs 11/9 Drove to loc - 1/2 pressure - blew well down - ran Kelly MA S.M. & tubing - rigged over for rods - ran new pump legs - spaced well out - loaded tubing - 1/2 pump - good - rigged down, clean loc & left (14/15)

UNIT	HRS.	PER HRS.	AMOUNT
	30	125.00	3750.00
OPERATOR			
FLOOR HANDS			
SWAB CUPS	NO. USED	TYPE	
OIL SAVER RUBBERS			
SAND PUMP X			150.00
TONGS X		10.00	100.00
POWER SUB			
REVERSE CIRCULATOR			
DRILLING HEAD	PLEASE PAY BY INVOICE		
DRILLING HEAD RUBBER	NO STATEMENT WILL BE SENT		
DIESEL FUEL and PAINT			
TOTAL			4400.00

NEW WELL Approved by J.T. Mitchell 11/26/00

# ALLIED CEMENTING CO., INC.

Federal Tax I.D.# 48-0727860

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:  
Dakley

DATE <u>11/1/60</u>	SEC. <u>25</u>	TWP. <u>27c</u>	RANGE <u>33W</u>	CALLED OUT	ON LOCATION <u>3:00 PM</u>	JOB START <u>9:00 AM</u>	JOB FINISH <u>12:10 PM</u>
LEASE <u>Hampson</u>	WELL# <u>A-1</u>	LOCATION <u>Carleton City 7 1/2 W 2 1/2 N</u>			COUNTY <u>Finnick</u>	STATE <u>Ks</u>	
OLD OR NEW (Circle one)							

**CONTRACTOR**

**TYPE OF JOB**

HOLE SIZE \_\_\_\_\_ T.D. \_\_\_\_\_

CASING SIZE 5 1/2 15.50 DEPTH \_\_\_\_\_

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_

TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES. MAX 600 MINIMUM 50

MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_

CEMENT LEFT IN CSG. 17 FT

PERFS. 890

DISPLACEMENT 20 3/4 GAL

**OWNER**

**CEMENT**

AMOUNT ORDERED

leak. Litr 1 1/2 2 1/2 gal

leak. class A + 2 1/2 gal 19 in - 1

COMMON	<u>100 sks</u>	@	<u>7.55</u>	<u>755.00</u>
POZMIX		@		
GEL	<u>15 sks</u>	@	<u>9.50</u>	<u>142.50</u>
CHLORIDE	<u>3.8</u>	@	<u>28.00</u>	<u>84.00</u>
<u>Litch right</u>	<u>100 sks</u>	@	<u>6.65</u>	<u>665.00</u>
<u>Flo-seal</u>	<u>250</u>	@	<u>1.15</u>	<u>287.50</u>
		@		
		@		
		@		
HANDLING	<u>223</u>	@	<u>1.05</u>	<u>234.15</u>
MILEAGE	<u>2.23</u>	@	<u>210.00</u>	<u>470.60</u>
				<b>TOTAL</b> <u>2400.00</u>

**EQUIPMENT**

PUMP TRUCK CEMENTER 1-11/4 May

# 191 HELPER Wal

BULK TRUCK

# 709 DRIVER Andrew

BULK TRUCK

# \_\_\_\_\_ DRIVER \_\_\_\_\_

**REMARKS:**

**SERVICE**

Mix 15 sks 1-1/2 local circulation

Mix 100 sks Litr + 1/2 chemical + leak. class

A + 2 1/2 gal Quap Plus Displace 20 3/4 GAL

Close in Head with 300 PSI

Cement Did Circulate

45 sks cement to pit

May Ball

DEPTH OF JOB 890 FT

PUMP TRUCK CHARGE \_\_\_\_\_ 580.00

EXTRA FOOTAGE \_\_\_\_\_ @ \_\_\_\_\_

MILEAGE 55 MI @ 3.00 165.00

PLUG 5 1/2 Rubber @ \_\_\_\_\_ 50.00

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

**TOTAL** 795.00

CHARGE TO: Hartman Oil

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

**FLOAT EQUIPMENT**

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

To Allied Cementing Co., Inc.

You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

**TOTAL** \_\_\_\_\_

TAX \_\_\_\_\_

TOTAL CHARGE 3175.00

DISCOUNT 317.50 IF PAID IN 30 DAYS

2857.50

SIGNATURE S. T. Mitchell

S. T. Mitchell

PRINTED NAME

# ALLIED CEMENTING CO., INC. ORIGINAL

Federal Tax I.D.# 48-0727860

5388

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:

15.055-21692-0600

Oakley

DATE <u>10/21/66</u>	SEC. <u>25</u>	TWP. <u>22c</u>	RANGE <u>33W</u>	CALLED OUT	ON LOCATION <u>8:00 AM</u>	JOB START <u>7:00 AM</u>	JOB FINISH <u>11:30 AM</u>
LEASE <u>Harpson</u>	WELL # <u>H-1</u>	LOCATION <u>Garden City 7N 2W 34 Ek</u>		COUNTY <u>Finnway</u>	STATE <u>Ks</u>		
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR Harpson Well Service  
 TYPE OF JOB Case 20  
 HOLE SIZE \_\_\_\_\_ T.D. \_\_\_\_\_  
 CASING SIZE 5 7/8 15.50" DEPTH \_\_\_\_\_  
 TUBING SIZE 2 3/4" DEPTH 775  
 DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TOOL PKK DEPTH 775  
 PRES. MAX 1000 MINIMUM 50  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_  
 CEMENT LEFT IN CSG. \_\_\_\_\_  
 PERFS. 590  
 DISPLACEMENT 7.22 MAI

OWNER Sullivan  
 CEMENT AMOUNT ORDERED  
2000 lb. Class H 6.00 ea  
1100 lb. Class H 3.00 ea  
 COMMON 100 sl. @ 7.55 755.00  
 POZMIX \_\_\_\_\_ @ \_\_\_\_\_  
 GEL \_\_\_\_\_ @ \_\_\_\_\_  
 CHLORIDE 30 lb. @ 25.00 750.00  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 HANDLING 206.30 @ 1.05 216.30  
 MILEAGE 206.30 55 mi 453.20  
 TOTAL 1559.50

**EQUIPMENT**

PUMP TRUCK CEMENTER Max  
 # 171 HELPER Wayne  
 BULK TRUCK  
 # 212 DRIVER Andrew  
 BULK TRUCK  
 # \_\_\_\_\_ DRIVER \_\_\_\_\_

**REMARKS:**

**SERVICE**

Pressure Ann. to 500 PSI before 2nd test  
Rate 2.1 PL/min - 400 PSI Min/1000  
Class H 13.500 Was Ann. to my Lines  
Displace 4.8 MAI Show to 750 PSI Service  
4.8 MAI out Rate - Pressure 1000 PSI  
Hold down till the Pressure down to 500 PSI

DEPTH OF JOB \_\_\_\_\_ 590 ft  
 PUMP TRUCK CHARGE \_\_\_\_\_ 580.00  
 EXTRA FOOTAGE \_\_\_\_\_ @ \_\_\_\_\_  
 MILEAGE 55 mi @ 3.00 165.00  
 PLUG \_\_\_\_\_ @ \_\_\_\_\_  
General manifold @ N/A  
 \_\_\_\_\_ @ \_\_\_\_\_  
 TOTAL 745.00

CHARGE TO: Harpson Oil  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

**FLOAT EQUIPMENT**

\_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 TOTAL \_\_\_\_\_

To Allied Cementing Co., Inc.  
 You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

TAX \_\_\_\_\_  
 TOTAL CHARGE 2253.50  
 DISCOUNT 225.35 IF PAID IN 30 DAYS  
12028.15

SIGNATURE S.T. Mitchell

S.T. Mitchell  
 PRINTED NAME

# ALLIED CEMENTING CO., INC. ORIGINAL 5311

Federal Tax I.D.# 48-0727860

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT  
OAKLEY

15-055-21692-0000

DATE <u>10-9-00</u>	SEC. <u>25</u>	TWP. <u>22S</u>	RANGE <u>33W</u>	CALLED OUT	ON LOCATION <u>9:45 AM</u>	JOB START <u>3:00 PM</u>	JOB FINISH <u>4:00 PM</u>
HOLSTER LEASE <u>THOMAS</u>			WELL # <u>A1</u>	LOCATION <u>GARDEN CITY 9N-1/2W-2N-1/4E</u>		COUNTY <u>JINNEY</u>	STATE <u>KS</u>
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR <u>CHEYENNE DRILL RIG # 8</u>	OWNER <u>SAME</u>
TYPE OF JOB <u>Production String</u>	
HOLE SIZE <u>7 7/8"</u> T.D. <u>2810'</u>	CEMENT
CASING SIZE <u>5 1/2"</u> DEPTH <u>2805'</u>	AMOUNT ORDERED <u>125 SKS ASC 5" KOL-SEAL</u>
TUBING SIZE DEPTH	<u>350 SKS LITE 1 1/4" FLO-SEAL</u>
DRILL PIPE DEPTH	

PRES. MAX <u>10000</u> MINIMUM <u>250PSI</u>	COMMON <u>ASC 125 SKS</u> @ <u>9.05</u> <u>1131.25</u>
MEAS. LINE SHOE JOINT <u>30.69</u>	POZMIX @
CEMENT LEFT IN CSG. <u>30.68</u>	GEL @
PERFS.	CHLORIDE @
DISPLACEMENT <u>66 OBL.</u>	<u>LITE 350 SKS</u> @ <u>6.65</u> <u>2327.50</u>
	<u>FLO-SEAL 88"</u> @ <u>1.15</u> <u>101.20</u>
	<u>KOL-SEAL 650"</u> @ <u>8.38</u> <u>237.20</u>
	HANDLING <u>475 SKS</u> @ <u>1.05</u> <u>498.75</u>
	MILEAGE <u>40 PER SK / MILE</u> <u>1045.00</u>
	TOTAL <u>5341.20</u>

**REMARKS:**

PLUG LANCED  
FLOAT HELD  
LOST RETURNS CEMENT 220  
NOT CONC.

THANK YOU

**SERVICE**

DEPTH OF JOB <u>2805'</u>	
PUMP TRUCK CHARGE <u>1080.00</u>	
EXTRA FOOTAGE @	
MILEAGE <u>55 MI</u> @ <u>3.00</u> <u>165.00</u>	
PLUG <u>5 1/2 RUBBER</u> @ <u>50.00</u> <u>50.00</u>	
	TOTAL <u>1295.00</u>

CHARGE TO: HARTMAN OIL & GAS

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

**FLOAT EQUIPMENT**

<u>1-6430E SHOE</u> @ <u>150.00</u> <u>150.00</u>	
<u>1-AFU INSERT</u> @ <u>235.00</u> <u>235.00</u>	
<u>5-CENTRALIZERS</u> @ <u>50.00</u> <u>250.00</u>	
<u>2-BASKETS</u> @ <u>128.00</u> <u>256.00</u>	
	TOTAL <u>891.00</u>

To Allied Cementing Co., Inc.  
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

TAX \_\_\_\_\_

TOTAL CHARGE 7527.20

DISCOUNT 752.20 IF PAID IN 30 DAYS

AFTER DISC. 6774.00

S.T. Mitchell

SIGNATURE S.T. Mitchell

PRINTED NAME