

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

Operator: License # 04824

Name: PIONEER NATURAL RESOURCES USA, INC.

Address ATTN: ANGIE HERNANDEZ - ROOM 1357

5205 N. O'CONNOR BLVD.

City/State/Zip IRVING, TX 75039

Purchaser: WNG

Operator Contact Person: ANGIE HERNANDEZ

Phone (972) 444-9001

Contractor: Name: VAL DRILLING

License: 5822

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

Designate Type of Completion

- New Well     Re-Entry     Workover
- Oil     SWD     SIOW     Temp. Abd.
- Gas     ENHR     SIGW
- Dry     Other (Core, WSW, Expl., Cathodic, etc.)

If Workover/Reentry: Old Well Info as follows:

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

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

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

Deepening     Re-perf.     Conv. to Inj/SWD

Plug Back     PBTB

Commingled    Docket No. \_\_\_\_\_

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

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

5/31/00    6/4/00    7/3/00

Spud Date    Date Reached TD    Completion Date

API NO. 15- 067-21462-0000

County GRANT

SW/4 NE/4 NE/4 Sec. 3 Twp. 30S Rge. 35W X E/W

1250' FNL    Feet from S/N (circle one) Line of Section

1250' FEL    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 ASHLAND Well # 1-3R

PANOMA FIELD

Producing Formation COUNCIL GROVE

Elevation: Ground 2985' KB 3000'

Total Depth 3300' PBTB 2960'

Amount of Surface Pipe Set and Cemented at 637.97' Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set \_\_\_\_\_ Feet

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

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

Drilling Fluid Management Plan alt I KGR 1/09/08  
(Data must be collected from the Reserve Pit)

Chloride content 1000 ppm Fluid volume 3000 bbls

Dewatering method used DRY OUT/EVAPORATION/BACKFILL

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

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

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

\_\_\_\_ Quarter Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S Rge. \_\_\_\_\_ E/W

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

RECEIVED  
KANSAS CORPORATION COMMISSION  
JUN 27 2001

CONSERVATION DIVISION

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 Angie Hernandez

Title SR. ENGINEERING TECH Date 6/22/01

Subscribed and sworn to before me this 22nd day of JUNE

Notary Public DEBORAH POLLOCK  
Notary Public, State of Texas  
Date Commission My permission expires 01-02-2005

K.C.C. OFFICE USE ONLY	
F	Letter of Confidentiality Attached
C	Wireline Log Received
C	Drillers Timelog Received
Distribution	
_____ KCC	_____ SWD/Rep _____ NGPA
_____ KGS	_____ Plug _____ Other
(Specify)	

SIDE TWO

Operator Name PIONEER NATURAL RESOURCES USA, INC. Lease Name ASHLAND Well # 1-3R  
 East County GRANT  
 Sec. 3 Twp. 30S Rge. 35W  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.)

Log Formation (Top), Depth and Datums  Sample

Name	Top	Datum
CHASE	2464'	MD
KRIDER	2520'	MD
FT. RILEY	2660'	MD
COUNCIL GROVE	2790'	MD

List All E.Logs Run:  
 SONIC CEMENT BOND LOG; GEOLOGIC REPORT LOG;  
 COMPENSATED NEUTRON COMPENSATED PHOTODENSITY LOG;  
 ARRAY INDUCTION SHALLOW FOCUSED ELECTRIC LOG;  
 MICRO RESISTIVITY LOG

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"	24#	637.97'	LT. PREM+	325	2%CaCl2
PRODUCTION	7-7/8"	5-1/2"	15.5#	3300'	15/85 POZMX	585	2%CaCl2
					PREM+8% Ge1		

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose	Depth		Type of Cement	#Sacks Used	Type and Percent Additives
	Top	Bottom			
Perforate					
Protect Casing					
Plug Back TD					
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
		Amount	Kind	
4	2979' - 3204' (24' w/ 101 Holes)	ACDZ 4750 GAL	15% HCl-Fe @ 4 BPM	
4	2940' - 2943' (3' w/ 13 Holes)			

TUBING RECORD Size 2-3/8" Set At 2948' Packer At N/A Liner Run  Yes  No

Date of First, Resumed Production, SWD or Inj. 7/18/00 Producing Method  Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	0	147	0	--	--

Disposition of Gas: METHOD OF COMPLETION Production Interval  
 Vented  Sold  Used on Lease  Open Hole  Perforation  Dually Comp.  Commingled 2940' - 2943'  
 (If vented, submit ACO-18.)  Other (Specify)



**SOLD TO**

**SHIP TO**

Halliburton Energy Services, Inc.

*AGS*

PIONEER NATURAL RES U S A INC  
 PO BOX 3178  
 MIDLAND TX 79702  
 USA

WELL OPERATOR  
 PNR ASHLAND 1-3R, GRANT  
 LEASE NAME / OFFSHORE AREA  
 ASHLAND  
 WELL NUMBER  
 1-3R  
 WELL PERMIT NO.  
 SEC3-30S-35W  
 ADDRESS  
 API 925721-001  
 CITY, STATE, ZIP CODE  
 ULYSSES KS 67880 US

TICKET TYPE	COMPANY CODE	HALLIBURTON ORDER NO.
Services	1100	658420
CUSTOMER P.O. NO.	JOB DATE	PRIMARY SERVICE LOC.
N/A	06/04/2000	Liberal, KS, USA

SALES OFFICE	WELL TYPE	WELL CATEGORY	RIG NAME / NO.
Mid-Continent BD	Oil	Development	PIONEER NATURAL RES U S A I

ITEM	MATERIAL	DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT
10	7523	PSL-CMT CEMENT PRODUCTION CASING-BOM Liberal, KS, USA Hwy 54 West	1.00	JOB	0.00	0.00
		JP035				
20	1	MILEAGE FROM NEAREST HES BASE,/UNIT Liberal, KS, USA Hwy 54 West	30	MI	4.05	121.50
			30	MI	2.11-	63.18-
			30	MI	1.94	58.32
		000-117				
		With the following configuration: Number of Units		1 unit		
30	2	MILEAGE FOR CEMENTING CREW,ZI Liberal, KS, USA Hwy 54 West	30	MI	2.38	71.40
			30	MI	1.24-	37.13-
			30	MI	1.14	34.27
		000-119				
		With the following configuration: Number of Units		1 unit		

INVOICE INSTRUCTIONS	
PAYMENT TERMS	HALLIBURTON APPROVAL
net due 45 days	<i>[Signature]</i>
HALLIBURTON OPERATOR / ENGINEER	CUSTOMER SIGNATURE
	<i>[Signature]</i>

TOTAL FROM THIS PAGE	92.59
TOTAL FROM NEXT PAGE(S)	11,415.48
SUBTOTAL	11,508.07
TAXES	684.75
GRAND TOTAL	12,192.82
	US Dollars

ORIGINAL



Halliburton Energy Services, Inc.

ITEM	MATERIAL	DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT
	LOCATION					
40	16091	CSG PUMPING,0-4 HRS,ZI				
	Liberal, KS, USA Hwy 54 West		1.00	EA	2,114.00	2,114.00
			1.00	EA	1,099.28-	1,099.28-
			1.00	EA	1,014.72	1,014.72
		001-016				
		CSG PUMPING,0-4 HRS,ZI				
		With the following configuration:				
		DEPTH	3,300			
		FEET/METRES (FT/M)	FT			
50	7	ENVIRONMENTAL SURCHARGE,/JOB,ZI				
	Liberal, KS, USA Hwy 54 West		1.00	JOB	60.00	60.00
		000-150				
60	132	PORTABLE DAS,/DAY/JOB,ZI				
	Liberal, KS, USA Hwy 54 West		1.00	JOB	829.00	829.00
			1.00	JOB	621.75-	621.75-
			1.00	JOB	207.25	207.25
		045-050				
		With the following configuration:				
		NUMBER OF DAYS	1	Days		
70	100003142	PLUG,CMTG,TOP AL,5 1/2 13-23# & 5 3/4				
	Liberal, KS, USA Hwy 54 West		1.00	EA	70.16	70.16
			1.00	EA	36.48-	36.48-
			1.00	EA	33.68	33.68
		402.1505				
		PLUG - CMTG - TOP ALUM - 5-1/2 13-23#				
		& 5-3/4 19.5-22.5#				
90	100003729	CHEMICAL - CLAYFIX II (HALTANK)				
	Liberal, KS, USA Hwy 54 West		3.00	GAL	36.09	108.27
			3.00	GAL	18.77-	56.30-
			3.00	GAL	17.32	51.97
		314-163 516.00472				
		CHEMICAL - CLAYFIX II - IN HAL TANK				
		BULK SHIPMENTS - FRESNO, TX. -				
		8.4545 LBS. PER GAL.				

ORIGINAL



Halliburton Energy Services, Inc.

ITEM	MATERIAL	DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT
	LOCATION					
100	66994	SBM Modified Hall Light Cmt Prem Plus				
	Hugoton, KS, USA		410.00	SK	17.10	7,011.00
			410.00	SK	8.89-	3,645.72-
			410.00	SK	8.21	3,365.28
140	100012205	Cement- Class C / Premium (Bulk)				
	Hugoton, KS, USA		175.00	SK	16.68	2,919.00
			175.00	SK	8.67-	1,517.88-
			175.00	SK	8.01	1,401.12
		504-050516.00265				
		CEMENT - CLASS C - PREMIUM - BULK				
150	100005053	Chemical - Calcium Chloride Hi Test Plt				
	Hugoton, KS, USA		11.00	SK	49.85	548.35
			11.00	SK	25.92-	285.14-
			11.00	SK	23.93	263.21
		509-406890.50812				
		CALCIUM CHLORIDE - HI TEST PELLETT -				
		94-97% CAACL 2 - 80# BAG				
160	100005049	Chemical - Flocele (25 lb sk)				
	Hugoton, KS, USA		147.00	LB	2.22	326.34
			147.00	LB	1.15-	169.70-
			147.00	LB	1.07	156.64
		XXXXXXX 890.50071				
		FLOCELE - 3/8 - 25 LB SACK				
170	100003700	Chemical- Gilsonite (Bulk)				
	Hugoton, KS, USA		4,975.00	LB	0.62	3,084.50
			4,975.00	LB	0.32-	1,603.94-
			4,975.00	LB	0.30	1,480.56
		508-292516.00337				
		CHEMICAL - GILSONITE - BULK				
180	101206563	Chemical - Halad-12 (50 lb)				
	Hugoton, KS, USA		83.00	LB	10.36	859.88
			83.00	LB	5.39-	447.14-
			83.00	LB	4.97	412.74

ORIGINAL



Halliburton Energy Services, Inc.

ITEM	MATERIAL	DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT
		NEW CHEMICAL				
190	101007446	CHEM,D-AIR 3000	42.00	LB	4.56	191.52
	Hugoton, KS, USA		42.00	LB	2.37-	99.59-
			42.00	LB	2.19	91.93
		Chemical - D-Air 3000				
200	3965	HANDLE&DUMP SVC CHRGE, CMT&ADDITIVES,ZI	777.00	CF	1.76	1,367.52
	Hugoton, KS, USA		777.00	CF	0.92-	711.11-
			777.00	CF	0.84	656.41
		500-207				
		With the following configuration:				
		NUMBER OF EACH		1	each	
210	3975	MILEAGE,CMTG MTL DEL/RETURNED,ZI	2,215.0	TMI	1.39	3,078.85
	Hugoton, KS, USA		2,215.0	TMI	0.72-	1,601.00-
			2,215.0	TMI	0.67	1,477.85
		500-306				
		With the following configuration:				
		NUMBER OF TONS		1.00	ton	
220	100004723	SHOE - GUIDE - 5-1/2 8RD	1.00	EA	190.00	190.00
	Liberal, KS, USA Hwy 54 West		1.00	EA	98.80-	98.80-
			1.00	EA	91.20	91.20
		12A825.205				
		SHOE - GUIDE - 5-1/2 8RD				
230	100004699	V ASSY,INSR FLOAT,51/2,8RD 14-20#	1.00	EA	225.00	225.00
	Liberal, KS, USA Hwy 54 West		1.00	EA	117.00-	117.00-
			1.00	EA	108.00	108.00
		24A - 815.19251				
		VALVE ASSY - INSERT FLOAT - 5-1/2 8RD				
		14-20#				

ORIGINAL



Halliburton Energy Services, Inc.

ITEM	MATERIAL	DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT
240	100013932	FILLUP ASSY - 1.000 ID - 5-1/2 -				
	Liberal, KS, USA Hwy 54 West		1.00	EA	45.00	45.00
			1.00	EA	23.40-	23.40-
			1.00	EA	21.60	21.60
		27815.19311				
		FILLUP ASSY - 1.000 ID - 5-1/2 -				
		6-5/8 INSERT FLOAT VALVE				
250	100004476	CTRZR ASSY,5 1/2 CSG X 7 7/8 HOLE,HINGED				
	Liberal, KS, USA Hwy 54 West		15.00	EA	70.00	1,050.00
			15.00	EA	36.40-	546.00-
			15.00	EA	33.60	504.00
		806.60022				
		CENTRALIZER ASSY - API - 5-1/2 CSG X				
		7-7/8 HOLE - HINGED - W/WELDED				
		IMPERIAL BOWS				
270	100004639	COLLAR-STOP-5 1/2"-W/DOGS				
	Liberal, KS, USA Hwy 54 West		1.00	EA	17.65	17.65
			1.00	EA	9.18-	9.18-
			1.00	EA	8.47	8.47
		XXXXXXX 806.72730				
		CLAMP - LIMIT - 5-1/2 - FRICTION -				
		W/DOGS				
280	100005045	HALLIBURTON WELD-A KIT				
	Liberal, KS, USA Hwy 54 West		1.00	EA	18.43	18.43
			1.00	EA	9.58-	9.58-
			1.00	EA	8.85	8.85
		HALLIBURTON WELD-A KIT				
		INVOICE AMOUNT				11,508.07
		Sales Tax - State				545.83
		Sales Tax - County				27.51
		Sales Tax - City/Loc				111.41
		INVOICE TOTAL				12,192.82
						US Dollars

ORIGINAL



**JOB SUMMARY**

ORDER NO. 70006

TICKET # **658420**

TICKET DATE **6-5-00**

REGION **North America**

NWA/COUNTRY **Mid Continent**

BDA / STATE **KS**

COUNTY **Grant**

MBU ID / EMP # **MCL20101 106322**

EMPLOYEE NAME **O. McLane**

PSL DEPARTMENT **ZE**

**ORIGINAL**

LOCATION **Liberal**

COMPANY **Pioneer Natural Res**

CUSTOMER REP / PHONE

TICKET AMOUNT **12192.82**

WELL TYPE **01**

API / UWI #

WELL LOCATION **N Satanka**

DEPARTMENT **ZE**

JOB PURPOSE CODE **035**

LEASE / WELL # **Ashland 1-3R**

SEC / TWP / RING **3 30s 35w**

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
<b>D. McLane 106322</b>	<b>55</b>						
<b>R. Selgusen 106154</b>	<b>55</b>						
<b>G. Humphries 106085</b>	<b>55</b>						
<b>R. Earls 191251</b>	<b>55</b>						

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
<b>420995</b>	<b>30</b>						
<b>54038-72941</b>	<b>20</b>						
<b>54225-6612</b>	<b>10</b>						
<b>52935-75821</b>	<b>10</b>						

Form Name \_\_\_\_\_ Type: \_\_\_\_\_  
 Form Thickness \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
 Packer Type \_\_\_\_\_ Set At \_\_\_\_\_  
 Bottom Hole Temp. \_\_\_\_\_ Pressure \_\_\_\_\_  
 Misc. Data \_\_\_\_\_ Total Depth \_\_\_\_\_

	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE	<b>6-4-00</b>	<b>6-4-00</b>	<b>6-5-00</b>	<b>6-5-00</b>
TIME	<b>1800</b>	<b>2100</b>	<b>0005</b>	<b>0115</b>

**TOOLS AND ACCESSORIES**

TYPE AND SIZE	QTY	MAKE
Float <b>Getter Insert 5 1/2</b>	<b>1</b>	
Float Shoe		
Guide Shoe <b>5 1/2</b>	<b>1</b>	
Centralizers <b>5 1/2</b>	<b>15</b>	
Bottom Plug		
Top Plug <b>SW 5 1/2</b>	<b>1</b>	
Head <b>PLC 5 1/2</b>	<b>1</b>	
Packer		
Other <b>Clamp 5 1/2</b>	<b>1</b>	

**WELL DATA**

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	<b>N</b>	<b>15.5</b>	<b>5 1/2</b>	<b>3002</b>	<b>KB</b>	
Liner						
Liner						
Tbg/D.P.						
Tbg/D.P.						
Open Hole						SHOTS/FT.
Perforations						
Perforations						
Perforations						

**MATERIALS**

Treat Fluid	Density	Lb/Gal
Disp. Fluid	Density	Lb/Gal
Prop. Type	Size	Lb.
Prop. Type	Size	Lb.
Acid Type	Gal.	%
Acid Type	Gal.	%
Surfactant	Gal.	In
NE Agent	Gal.	In
Fluid Loss	Gal/Lb	In
Gelling Agent	Gal/Lb	In
Fric. Red.	Gal/Lb	In
Breaker	Gal/Lb	In
Blocking Agent	Gal/Lb	
Perfpac Balls	Qty.	
Other		
Other		
Other		

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
				<b>See Job Log</b>
<b>TOTAL</b>		<b>TOTAL</b>		

**HYDRAULIC HORSEPOWER**

ORDERED	Avail.	Used
TREATED	<b>AVERAGE RATES IN BPM</b>	
	Disp.	Overall
FEET <b>22.64</b>	<b>CEMENT LEFT IN PIPE</b>	
	Reason	<b>Shoe Joint</b>

**CEMENT DATA**

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
	<b>25</b>	<b>15/85 Poz P+</b>	<b>B</b>	<b>220CC 8% Gel 1/4" Floccle 10% Gilsomite</b>	<b>5.34</b>	<b>10</b>
	<b>385</b>	<b>15/85 Poz P+</b>	<b>B</b>	<b>220CC 8% Gel 1/4" Floccle 10% Gilsomite</b>	<b>2.11</b>	<b>12.6</b>
	<b>175</b>	<b>Prom Plus</b>	<b>B</b>	<b>220CC 1/4" Floccle 5% Gilsomite 15% Haled 12 25% D-Air</b>	<b>1.42</b>	<b>14.5</b>

Circulating	Displacement	Preflush:	Gal - BBI	Type
Breakdown	Maximum	Load & Bkdn:	Gal - BBI	Pad: BBI - Gal
Average	Frac Gradient	Treatment	Gal - BBI	Disp: <b>99</b> - Gal <b>28</b>
Shut In: Instant	5 Min	Cement Slurr	Gal <b>23.5</b>	<b>M.S. 144.5 T.C. 44</b>
	15 Min	Total Volume	Gal - BBI	

Frac Ring #1 \_\_\_\_\_ Frac Ring #2 \_\_\_\_\_ Frac Ring #3 \_\_\_\_\_ Frac Ring #4 \_\_\_\_\_

**THE INFORMATION STATED HEREIN IS CORRECT**

CUSTOMER'S REPRESENTATIVE SIGNATURE **Dave W. Dyer**



<b>HALLIBURTON</b>		<b>JOB LOG</b>		TICKET #	TICKET DATE
REGION North America		NWA/COUNTRY Mid Continent	ORDER NO. 70006	658420	6-5-00
MBU ID / EMP #	106372	EMPLOYEE NAME	D. McLean	BDA / STATE	KS
LOCATION	Liberal	COMPANY	Pennaco Natural Gas	PSL DEPARTMENT	ZE
TICKET AMOUNT	12192.83	WELL TYPE	01	CUSTOMER REP / PHONE	
WELL LOCATION	US 1	DEPARTMENT	ZI	API / UWI #	
LEASE / WELL #	Liberal 1-3R	SEC / TWP / RNG	3 30S 35.1	JOB PURPOSE CODE	035

ORIGINAL

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
D. McLean 106372	8.5						
R. Johnson 105154	5.5						
G. H. Johnson 105085	8.5						
K. E. E. 191251	5.5						

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	1800							Called for Job
	2100							on location rig nipping down Hold Safety meeting set up pump truck
	2120							Rig up Csg crew
	2150							Start running Csg & float Equip.
	2231							Csg on bottom
	2235							Hook up PIC & Circulating Iron
	2339							Start Circulating
	0002							then Circulating
	0003							Hook up to pump truck
								Job Procedure for 5 1/2 L.S
	0005							013500 Pressure test line
	0007	4.5	23.5		✓			01250 Start Savermer Cement @ 10 #
	0013	6	144.5		✓			250 Start Lead Cement @ 12.6 #
	0039	6	44		✓			100 Start Tail Cement @ 14.5 #
	0049							then mixing Cement
	0052							Shut down & Release plug
	0053							Wash up pumps & lines
	0056	6-8	78		✓			01500 Start Displacement
	0103				✓			0004700 Displacement caught Cement
	0111	2			✓			1250 1000 Slow down rate
	0115				✓			1300 1200 Plug landed
	0116				✓			1400 1100 Release float

Circulated 25 Bbls to pit

Thank You For Calling Halliburton



# Work Order Contract

# ORIGINAL

Halliburton Energy Services, Inc.  
Houston Texas 77056

Order Number

658420

70012 SAP

TO: HALLIBURTON ENERGY SERVICES, INC. - YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICE PERSONNEL TO DELIVER AND OPERATE THE SAME AS AN INDEPENDENT CONTRACTOR TO CUSTOMER LISTED BELOW AND DELIVER AND SELL PRODUCTS, SUPPLIES AND MATERIALS FOR THE PURPOSE OF SERVICING:

Well No. 1-3R	Farm or Lease Ashland	County Grant	State TX	Well Permit #
Customer Pioneer Natural Res		Well Owner Same	Job Purpose 075	

**THIS WORK ORDER MUST BE SIGNED BEFORE WORK IS COMMENCED**

A. **CUSTOMER REPRESENTATION** - Customer warrants that the well is in proper condition to receive the services, equipment, products, and materials to be supplied by Halliburton Energy Services, Inc. (hereinafter "Halliburton").

B. **PRICE AND PAYMENT** - The services, equipment, products, and/or materials to be supplied hereunder are priced in accordance with Halliburton's current price list. All prices are exclusive of taxes. If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If Customer has an approved open account, invoices are payable on the twentieth day after the date of invoice. Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer agrees to pay attorney fees of 20% of the unpaid account, or Halliburton's actual attorneys fees, whichever is greater, plus all collection and court costs. Customer agrees that the amount of attorney fees set out herein are reasonable and necessary.

C. **RELEASE AND INDEMNITY** - Customer agrees to **RELEASE** Halliburton Group from any and all liability for any and all damages whatsoever to property of any kind owned by, in the possession of, or leased by Customer and those persons and entities Customer has the ability to bind by contract or which are co-interest owners or joint ventures with Customer. Customer also agrees to **DEFEND, INDEMNIFY, AND HOLD** Halliburton Group **HARMLESS** from and against any and all liability, claims, costs, expenses, attorney fees and damages whatsoever for personal injury, illness, death, property damage and loss resulting from:

loss of well control; services to control a wild well whether underground or above the surface; reservoir or underground damage, including loss of oil, gas, other mineral substances or water; surface damage arising from underground damage; damage to or loss of the well bore; subsurface trespass or any action in the nature thereof; fire; explosion; subsurface pressure; radioactivity; and pollution and contamination and its cleanup and control.

**CUSTOMER'S RELEASE, DEFENSE, INDEMNITY AND HOLD HARMLESS** obligations will apply even if the liability and claims are caused by the sole, concurrent, active or passive negligence, fault, or strict liability of one or more members of the Halliburton Group, the unseaworthiness of any vessel or any defect in the data, products, supplies, materials or equipment furnished by any member or members of the Halliburton Group whether in the design, manufacture, maintenance or marketing thereof or from a failure to warn of such defect. "Halliburton Group" is defined as Halliburton Energy Services, Inc., its parent, subsidiary, and affiliated companies, insurers and subcontractors and all its/their officers, directors, employees, consultants and agents. **Customer's RELEASE, DEFENSE, INDEMNITY AND HOLD HARMLESS** obligations apply whether the personal injury, illness, death, property damage or loss is suffered by one or more members of the Halliburton Group, Customer, or any other person or entity. Customer agrees to support such obligations assumed herein with liability insurance with limits of not less than \$500,000. Customer agrees to name Halliburton Group as named additional insureds on all of its general liability policy(s). Customer agrees that its liability under this Contract is not limited by the amounts of its insurance coverage, except where and as may be required by applicable local law for the provisions of this Contract to be enforceable.

D. **EQUIPMENT LIABILITY** - Customer shall at its risk and expense attempt to recover any Halliburton Group equipment lost or lodged in the well. If the equipment is recovered and repairable, Customer shall pay the repair costs, unless caused by Halliburton's sole negligence. If the equipment is not recovered or is irreparable, Customer shall pay the replacement cost, unless caused by Halliburton's sole negligence. If a radioactive source becomes lost or lodged in the well, Customer shall meet all requirements of Section 39.15(a) of the Nuclear Regulatory Commission regulations and any other applicable laws or regulations concerning retrieval or abandonment and shall permit Halliburton to monitor the recovery or abandonment efforts all at no risk or liability to Halliburton Group. Customer shall be responsible for damage to or loss of Halliburton group equipment, products, and materials while in transit aboard Customer-supplied transportation, even if such is arranged by Halliburton at Customer's request, and during loading and unloading from such transport. Customer will also pay for the repair or replacement of Halliburton group equipment damaged by corrosion or abrasion due to well effluents.

E. **LIMITED WARRANTY** - Halliburton warrants only title to the equipment, products, and materials supplied under this Contract and that same are free from defects in workmanship and materials for thirty (30) days from the date of delivery. **THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE.** Halliburton's sole liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale, lease or use of any equipment, products, or materials is expressly limited to the replacement of such on their return to Halliburton or, at Halliburton's option, to the allowance to Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, consequential, or punitive damages. 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 EQUIPMENT, MATERIALS, OR SERVICE, NOR THE ACCURACY OF ANY CHART INTERPRETATION, RESEARCH ANALYSIS, JOB RECOMMENDATION OR OTHER DATA FURNISHED BY HALLIBURTON GROUP.** Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton Group shall not be liable for and **CUSTOMER SHALL INDEMNIFY HALLIBURTON GROUP AGAINST ANY DAMAGES ARISING FROM THE USE OF SUCH INFORMATION,** even if such is contributed to or caused by the active or passive negligence, fault or strict liability of any member or members of Halliburton Group. Halliburton also does not warrant the accuracy of data transmitted by electronic process, and Halliburton will not be responsible for accidental or intentional interception of such data by third parties.

F. **GOVERNING LAW** - The validity, interpretation and construction of this Contract shall be determined by the laws of the jurisdiction where the services are performed or the equipment or materials are delivered.

G. **DISPUTE RESOLUTION** - Customer and Halliburton agree that any dispute that may arise out of the performance of this Contract shall be resolved by binding arbitration by a panel of three arbitrators under the rules of the American Arbitration Association. The arbitration will take place in Houston, TX.

H. **SEVERABILITY** - If any provision or part thereof of this Contract shall be held to be invalid, void, or of no effect for any reason, such holding shall not be deemed to affect the validity of the remaining provisions of this Contract which can be given effect, without the invalid provision or part thereof, and to this end, the provisions of this Contract are declared to be severable. Customer and Halliburton agree that any provision of this Contract that is unenforceable or void under applicable law will be modified to achieve the intent of the parties hereunder to the greatest extent allowed by applicable law.

I. **MODIFICATIONS** - Customer agrees that Halliburton shall not be bound by any modifications to this Contract, except where such modification is made in writing by a duly authorized executive officer of Halliburton. Requests for modifications should be directed to the Vice President - Legal, 4100 Clinton Drive, Houston, TX. 77020.

I HAVE READ AND UNDERSTAND THIS WORK ORDER CONTRACT WHICH CONTAINS RELEASE AND INDEMNITY LANGUAGE WHICH CUSTOMER ACKNOWLEDGES IS CONSPICUOUS AND AFFORDS FAIR AND ADEQUATE NOTICE AND I REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT.

SIGNED: David W. Higgins DATE: \_\_\_\_\_ TIME: \_\_\_\_\_ A.M./P.M.  
CUSTOMER Authorized Signatory

### Customer Acceptance of Materials and Services

THE CUSTOMER HEREBY ACKNOWLEDGES RECEIPT OF THE MATERIALS AND SERVICES DESCRIBED ON THE ATTACHED ORDER NUMBER \_\_\_\_\_

David W. Higgins  
CUSTOMER Authorized Signatory

White-Office

Canary-Field Office

Pink-Customer

Green-Retain



Halliburton Energy Services, Inc.

ORIGINAL

Remit to: P.O. Box 951046  
Dallas, TX 75395-1046

INVOICE

Site/Well Address: PNR ASHLAND 1-3R,GRANT ASHLAND API 925721-001 ULYSSES KS 67880	<b>DIRECT CORRESPONDENCE TO:</b> P.O. Box-1598 Liberal, KS 67905-1598 (316) 624-3879	Invoice No.	Date
		90480801	06/06/2000
		Customer PO No.	Date
		N/A	
		Delivery No.	Date
		80838477	06/06/2000
		Order/Ticket No.	Date
		858109	06/31/2000
		Shipping Point	Manual Ticket No.
		LIBERAL Shipping Poi	05/31/2000
		Service Location	Customer No.
		Liberal, KS, USA	304606
		Payment Terms	Payment Due Date
		net due 45 days	07/21/2000

TO:  
 PIONEER NATURAL RES-U.S A INC  
 ATTN: LESLIE BAUER  
 5205 N O'CONNOR BLVD, SUITE 1400  
 IRVING TX 75039-3746

Reference Number	Description	QTY	U/M	Unit Price	Amount
7521	PSL-CMT Cement Surface Casing-BOM JP010	1	JOB		
1	MILEAGE FROM NEAREST HES BASE,/UNIT  Discount : \$63.18- With the following configuration: Number of Units 000-117	30	MI	4.05	121.50
2	MILEAGE FOR CEMENTING CREW,ZI  Discount : \$37.13- With the following configuration: Number of Units 000-119	30	MI	2.38	71.40
16091	CSG PUMPING,0-4 HRS,ZI  Discount : \$924.56- With the following configuration: DEPTH FEET/METRES (FT/M) 001-016 CSG PUMPING,0-4 HRS,ZI	1	EA	1,778.00	1,778.00

Terms: If customer does not have an approved open account with Halliburton, all sums are payable in cash at the time of performance of services or delivery of equipment, products, or materials. If customer has an approved open account, invoices are payable on the twentieth day after date of invoice. Customer agrees to pay interest on unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any amount, Customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.



Continuation	
Invoice No.	Date
90480801	06/06/2000

**INVOICE**

Halliburton Energy Services, Inc.

**ORIGINAL**

Reference Number	Description	QTY	U/M	Unit Price	Amount
7	ENVIRONMENTAL SURCHARGE, /JOB, ZI 000-150	1	JOB	60.00	60.00
100003163	PLUG-CMTG-TOP PLASTIC-8-5/8 Discount : \$101.92- 402.15781 PLUG - CMTG - TOP PLASTIC - 8-5/8 24-49d	1	EA	196.00	196.00
100004727	SHOE - GUIDE - 8-5/8 8RD Discount : \$155.48- 12A825.217 SHOE - GUIDE - 8-5/8 8RD	1	EA	299.00	299.00
100004702	VALVE ASSY-INSERT FLOAT-8-5/8 Discount : \$170.56- 24A- 815.19502 VALVE ASSY - INSERT FLOAT - 8-5/8 6RD CSG 24d	1	EA	328.00	328.00
100013933	FILLUP ASSY - 1.500 ID - 7 IN. - 8-5/8 Discount : \$23.40- 815.19406 FILLUP ASSY - 1.500 ID - 7 IN. - 8-5/8 INSERT FLOAT VALVE	1	EA	45.00	45.00
100004521	CENTRALIZER ASSY - 8-5/8 CSG X 12-1/4 Discount : \$148.51- 40806.61048 CENTRALIZER ASSY - 8-5/8 CSG X 12-1/4 HOLE - HINGED - W/WELDED STANDARD BOWS	4	EA	71.40	285.60

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Continuation	
Invoice No.	Date
90460801	08/08/2000

**INVOICE**

Halliburton Energy Services, Inc.

ORIGINAL

Reference Number	Description	QTY	U/M	Unit Price	Amount
100004642	CLP,LIM,8 5/8,FRICT,WTH DOGS  Discount : \$12.84- XXXXXXXX 806.72750 CLAMP - LIMIT - 8-5/8 - FRICTION - W/DOGS	1	EA	24.70	24.70
100005045	HALLIBURTON WELD-A KIT  Discount : \$9.58- HALLIBURTON WELD-A KIT	1	EA	18.43	18.43
14241	SBM Halliburton Light Premium Plus  Discount : \$1,354.55- 504-120	190	SK	13.71	2,604.90
100005053	Chemical - Calcium Chloride Hi Test Pit  Discount : \$181.45- 508-406890.50812 CALCIUM CHLORIDE - HI TEST PELLET - 94-97% CACL 2 - 80# BAG	7	SK	49.85	348.95
100005049	Chemical - Flocele (25 lb sk)  Discount : \$94.66- XXXXXXXX 890.60071 FLOCELE - 3/8 - 25 LB SACK	82	LB	2.22	182.04
100012205	Cement- Class C / Premium (Bulk)  Discount : \$1,170.94- 504-050516.00265 CEMENT - CLASS C - PREMIUM - BULK	135	SK	16.68	2,251.80

Terms:

If customer does not have an approved open account with Halliburton, all sums are payable in cash at the time of performance of services or delivery of equipment, products, or materials. If customer has an approved open account, invoices are payable on the twentieth day after date of invoice. Customer agrees to pay interest on unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any amount, Customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.



Continuation	
Invoice No.	Date
90460801	06/05/2000

**INVOICE**

Halliburton Energy Services, Inc.

**ORIGINAL**

Reference Number	Description	QTY	U/M	Unit Price	Amount
3965	HANDLE&DUMP SVC CHRG, CMT&ADDITIVES,ZI  Discount : \$322.15- With the following configuration: NUMBER OF EACH 500-207	352	CF	1.76	619.52
3975	MILEAGE,CMTG MTLs DEL/RETURNED,ZI  Discount : \$111.31- With the following configuration: NUMBER OF TONS 600-306	154	TMI	1.39	214.06
	INVOICE SUBTOTAL				9,448.90
	DISCOUNT				4,882.22
	INVOICE AMOUNT				4,566.68
	Sales Tax - State				216.28
	Sales Tax - County				21.41
	Sales Tax - City/Loc				44.14
	<b>INVOICE TOTAL - PLEASE PAY THIS AMOUNT</b>				<b>4,848.51</b>

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**JOB SUMMARY**

ORDER NO. 70006

TICKET # <b>656109</b>	TICKET DATE <b>5-31-00</b>
BDA / STATE <b>Ks.</b>	COUNTY <b>Grant</b>
PSL DEPARTMENT <b>22</b>	<b>ORIGINAL</b>
CUSTOMER REP / PHONE <b>David Higgins</b>	
WELL TYPE <b>02</b>	API / UWI #
DEPARTMENT <b>22</b>	JOB PURPOSE CODE <b>010</b>

REGION <b>North America</b>	NW/COUNTRY <b>USA</b>
MBU ID / EMP # <b>106304</b>	EMPLOYEE NAME <b>T. Davis</b>
LOCATION <b>Liberal, KS</b>	COMPANY <b>Pioneer Nat</b>
TICKET AMOUNT	WELL LOCATION <b>9th. N.W. Sutton #9</b>
LEASE / WELL # <b>751996 1-3K</b>	SEC / TWP / RNG <b>3-30-35</b>

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
--	--	--	--

<b>T. Davis - 106304 6</b>			
<b>J. Zimmerman 20215</b>			
<b>J. S. Ring 199491</b>			

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
<b>4219-78294</b>	<b>30</b>						
<b>54225-77031</b>	<b>10</b>						

Form Name \_\_\_\_\_ Type: \_\_\_\_\_  
 Form Thickness \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
 Packer Type \_\_\_\_\_ Set At \_\_\_\_\_  
 Bottom Hole Temp. \_\_\_\_\_ Pressure \_\_\_\_\_  
 Misc. Data \_\_\_\_\_ Total Depth \_\_\_\_\_

DATE	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
<b>5-31-00</b>	<b>1930</b>	<b>5-31-00</b>	<b>6-1-00</b>	<b>6-1-00</b>
		<b>2230</b>	<b>0300</b>	<b>0400</b>

**TOOLS AND ACCESSORIES**

TYPE AND SIZE	QTY	MAKE
Float Collar <b>Insert 8 1/2</b>	<b>1</b>	
Float Shoe <b>Fill</b>	<b>1</b>	
Guide Shoe <b>Key</b>	<b>1</b>	
Centralizers <b>54</b>	<b>4</b>	
Bottom Plug		
Top Plug		
Head		
Packer		
Other		

**WELL DATA**

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	<b>N</b>	<b>24</b>	<b>8 1/2</b>	<b>KB</b>	<b>639</b>	
Liner						
Liner						
Tbg/D.P.						
Tbg/D.P.						
Open Hole						SHOTS/FT.
Perforations						
Perforations						
Perforations						

**MATERIALS**

Treat Fluid	Density	Lb/Gal
Disp. Fluid	Density	Lb/Gal
Prop. Type	Size	Lb.
Prop. Type	Size	Lb.
Acid Type	Gal.	%
Acid Type	Gal.	%
Surfactant	Gal.	in
NE Agent	Gal.	in
Fluid Loss	Gal/Lb	in
Gelling Agent	Gal/Lb	in
Fric. Red.	Gal/Lb	in
Breaker	Gal/Lb	in
Blocking Agent	Gal/Lb	
Perfpac Balls	Qty.	
Other		
Other		
Other		
Other		

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
				<b>Cost</b>
				<b>8 1/2</b>
				<b>58</b>
<b>TOTAL</b>		<b>TOTAL</b>		

ORDERED	HYDRAULIC HORSEPOWER Avail.	Used
TREATED	AVERAGE RATES IN BPM Disp.	Overall
FEET	CEMENT LEFT IN PIPE Reason	

**CEMENT DATA**

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
<b>1</b>	<b>190</b>	<b>P+L+</b>	<b>B</b>	<b>210cc 1/4" Floe</b>	<b>2.05</b>	<b>12.3</b>
<b>1</b>	<b>135</b>	<b>PT</b>	<b>B</b>	<b>220cc 1/4" Floe</b>	<b>1.32</b>	<b>14.2</b>

Circulating _____	Displacement _____	Preflush: Gal - BBI _____	Type _____
Breakdown _____	Maximum _____	Load & Bkdn: Gal - BBI _____	Pad: BBI - Gal _____
Average _____	Frac Gradient _____	Treatment Gal - BBI _____	Disp: BBI Gal <b>38</b>
Shut In: Instant _____	5 Min _____ 15 Min _____	Cement Slurr Gal <b>(BBI) 642.6</b>	<b>32 T.L.</b>
		Total Volume Gal - BBI _____	

Frac Ring #1 \_\_\_\_\_ Frac Ring #2 \_\_\_\_\_ Frac Ring #3 \_\_\_\_\_ Frac Ring #4 \_\_\_\_\_  
 THE INFORMATION STATED HEREIN IS CORRECT  
 CUSTOMER'S REPRESENTATIVE SIGNATURE: *David W. Higgins*



**JOB LOG**

ORDER NO. 70098

REGION North America	NW/COUNTRY	BOA/STATE	COUNTY
MBU ID / EMP #	EMPLOYEE NAME	PSL DEPARTMENT	
LOCATION	COMPANY	CUSTOMER REP / PHONE	
TICKET AMOUNT	WELL TYPE	API / LIWI #	
WELL LOCATION	DEPARTMENT	JOB PURPOSE CODE	
LEASE / WELL #	SEC / TWP / RNG		

ORIGINAL

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
6			
7			

CHART NO.	TIME	RATE (BPM)	VOLUME (GAL)	PUMPS		PRESS. (psig)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	1930							Called out for job
	2230							on loc. kid drilling
	000							start 2BOP
	0100							out of hole 10" P. kid up cover
	0115							start 8" P. CSB & F.F.
	0215							CSB on boom hook up 8" P. & C.C. & circ iron.
	0230							work lift
	0233							circ to pit
	0250							Thru circ hook iron to pit
	0255							1st fast iron.
	0300	6.0	20		✓	150		Pump. 14" spacer
	0304	6.0	69		✓	150		Pump 1905m pt at 12.3"
	0315	6.0	32		✓	140		pump 1755m pt at 14.2"
	0320	0			✓	0		shut down. drop plug.
	0321	6.0	32		✓	120		pump. disp.
	0328	6.0	38		✓	100		20 bbl in cont to pit
	0330	2.0	38		✓	140		28 bbl in 5m rate.
	0336	2.0	38		✓	0		25% w/ 100' cont plug.
	0337	0	38		✓	400		Release float - HELD.
								Thanks for calling HES.
								Try 1912 & crew