

# ORIGINAL

SIDE ONE

4-10-98

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

Operator: License # 32193

Name: Pioneer Natural Resources USA, Inc.

Address 14000 Quail Springs Parkway  
Suite 5000

City/State/Zip Oklahoma City, OK 73134

Purchaser: K N Energy

Operator Contact Person: Mark Reichardt

Phone ( 405 ) 749-1780

Contractor: Name: Cheyenne Drilling, Inc.

License: 5382

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/Re-Entry: 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. \_\_\_\_\_

11/21/97 11/24/97 12/14/97

Spud Date Date Reached TD Completion Date

API No. 15-~~F055~~-215900000  
County KANSAS

C 19NW4310 Sec. 24 Twp. 24S Rge. 32  E  W

3,960 Feet from  N (circle one) Line of Section

3,990 Feet from  W (circle one) Line of Section

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

Lease Name Huston Well # 1-24R  
Hugoton Field

Producing Formation Chase

Elevation: Ground 2,892' KB 2,886'

Total Depth 2,805' PBTB 2,801'

Amount of Surface Pipe Set and Cemented at 520 Feet

Multiple Stage Cementing Collar Used?  Yes  No

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

If Alternate II completion, cement circulated from TD

feet depth to Surface w/ 295 sx cmt.

Drilling Fluid Management Plan Att. 2, No spud call to Dist. 6-8-98 etc.  
(Data must be collected from the Reserve Pit)

Chloride content 1000 ppm Fluid volume 3,000 bbls

Dewatering method used Evaporation & Backfill

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

Operator Name N / A

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

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

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 67202-1212, 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 Mark Reichardt

Title OTSP Operations Engineer Date 4/2/98

Subscribed and sworn to before me this 2nd day of April

19 98  
Notary Public Connie B. Turner

Date Commission Expires September 2, 2000

K.C.C. OFFICE USE ONLY		
F	<input type="checkbox"/> Letter of Confidentiality Attached	
C	<input checked="" type="checkbox"/> Wireline Log Received	
C	<input type="checkbox"/> Drillers Timelog Received	
Distribution		
<input checked="" type="checkbox"/>	KCC	<input type="checkbox"/> SWD/Rep
<input type="checkbox"/>	KGS	<input type="checkbox"/> Plug
		<input type="checkbox"/> NGPA
		<input type="checkbox"/> Other
		(Specify)

Operator Name Pioneer Natural Resources USA, Inc. Lease Name Houston Well # 1-24R  
 County Finney  
 East  
 Sec. 24 Twp. 24S Rge. 32  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 (Attach Additional Sheets.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datums	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Herrington	2,591'	KB
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Krider	2,622'	KB
List All E.Logs Run:		Winfield	2,678'	KB
High Resolution Induction Log; Mircolog; Spectral Density Dual Spaced Neutron II Log; Cement Bond Log		Towanda	2,740'	KB

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface Casing	12-1/4"	8-5/8"	24#	520'	35/65 PozC	150 6%	D20, 3% S1, 1/4# / sx D29
					Class C	100 2%	S1, 1/4# / sx D29
Production Casing	7-7/8"	5-1/2"	14#	2,808'	Class C	195 3%	D79, 2% S1, 0.2% D46
					Class C	100 2%	S1, 2% B28, 0.6% D60

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	2626' - 2638'	Acidize w/1,500 gals 7-1/2% HCl		2626-2638
		Frac w/16,000 gals 65Q + 50,000#		
		sand		

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2-7/8"	2,644'		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First Resumed Production, SWD or Inj. Production	Producing Method
Well TA'd	<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) -

Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Water	Bbls.	Gas-Oil Ratio	Gravity
			1		57			0.12

Disposition of Gas:	METHOD OF COMPLETION	Production Interval
<input type="checkbox"/> Vented <input checked="" type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, submit ACO-18.)	<input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perforation <input type="checkbox"/> Dually Completed <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____	2,626' - 2,638'



# ORIGINAL Cementing Service Report

15-055-21590-0000

Customer <b>PARKER &amp; PARSLEY PETROLEUM</b>	Job Number <b>20032082</b>
---	-------------------------------

Well <b>HUSTON 224 1-24R</b>	Location (legal) <b>SEC. 103 10</b>	Dowell Location <b>Ulysses, KS</b>	Service Date <b>11/21/97</b>
---------------------------------	--	---------------------------------------	---------------------------------

Field <b>HUGOTON</b>	Formation Name/Type <b>Dirty-Sandstone</b>	Deviation <b>12.3 in</b>	Bit Size <b>12.3 in</b>	Well MD <b>521 ft</b>	Well TVD <b>521 ft</b>
-------------------------	---	-----------------------------	----------------------------	--------------------------	---------------------------

County <b>FINNEY</b>	State/Province <b>KS</b>	BHP <b>psi</b>	BHST <b>°F</b>	BHCT <b>°F</b>	Pore Press. Gradient <b>psi/ft</b>
-------------------------	-----------------------------	-------------------	-------------------	-------------------	---------------------------------------

Rig Name <b>CHEYENNE 8</b>	Drilled For <b>Gas</b>	Service Via <b>Land</b>	Casing/Liner		
-------------------------------	---------------------------	----------------------------	--------------	--	--

Offshore Zone	Well Class <b>New</b>	Well Type <b>Development</b>	Depth, ft <b>520</b>	Size, in <b>8.63</b>	Weight, lb/ft <b>24</b>	Grade <b>K55</b>	Thread <b>8RD</b>
---------------	--------------------------	---------------------------------	-------------------------	-------------------------	----------------------------	---------------------	----------------------

Drilling Fluid Type <b>Bentonite</b>	Max. Density <b>9.2 lb/gal</b>	Plastic Viscosity <b>0 cp</b>	Tubing/Drill Pipe				
---	-----------------------------------	----------------------------------	-------------------	--	--	--	--

Service Line <b>Cementing</b>	Job Type <b>Cem Surface Casing</b>	Depth, ft <b>0</b>	Size, in <b>0</b>	Weight, lb/ft <b>0</b>	Grade <b>0</b>	Thread <b>0</b>
----------------------------------	---------------------------------------	-----------------------	----------------------	---------------------------	-------------------	--------------------

Max. Allowed Tubing Pressure <b>1500 psi</b>	Max. Allowed Ann. Pressure <b>1500 psi</b>	WellHead Connection <b>Single cement head</b>	Perforations/Open Hole				
---	---	--	------------------------	--	--	--	--

Service Instructions <b>safely cement 8 5/8 surface casing as customer request.</b>	Top, ft <b>0</b>	Bottom, ft <b>0</b>	spf <b>0</b>	No. of Shots <b>0</b>	Total Interval <b>ft</b>
	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	Diameter <b>0 in</b>
	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0 in</b>
	Treat Down <b>Casing</b>	Displacement <b>30 bbl</b>	Packer Type	Packer Depth <b>0 ft</b>	
	Tubing Vol. <b>0 bbl</b>	Casing Vol. <b>33 bbl</b>	Annular Vol. <b>0 bbl</b>	Open Hole Vol. <b>0 bbl</b>	

Casing/Tubing Secured <input type="checkbox"/>	1 Hole Volume Circulated prior to Cementing <input type="checkbox"/>	Casing Tools		Squeeze Job	
--	--	--------------	--	-------------	--

Lift Pressure: <b>207 psi</b>	Shoe Type: <b>Guide</b>	Squeeze Type
----------------------------------	----------------------------	--------------

Pipe Rotated <input type="checkbox"/>	Pipe Reciprocated <input type="checkbox"/>	Shoe Depth: <b>520 ft</b>	Tool Type:
---------------------------------------	--	------------------------------	------------

No. Centralizers: <b>5</b>	Top Plugs: <b>1</b>	Bottom Plugs: <b>0</b>	Stage Tool Type:	Tool Depth: <b>0 ft</b>
-------------------------------	------------------------	---------------------------	------------------	----------------------------

Cement Head Type: <b>Single</b>	Stage Tool Depth: <b>ft</b>	Tall Pipe Size: <b>0 in</b>
------------------------------------	--------------------------------	--------------------------------

Job Scheduled For: <b>11/21/97 17:00</b>	Arrived on Location: <b>11/23/97 17:30</b>	Leave Location: <b>11/23/97 22:30</b>	Collar Type: <b>Auto-Fill</b>	Tall Pipe Depth: <b>0 ft</b>
---	---	--	----------------------------------	---------------------------------

Collar Depth: <b>477 ft</b>	Sqz Total Vol: <b>0 bbl</b>
--------------------------------	--------------------------------

Time	Cum Vol	Density	Pressure U1	Pump	REZERO	Message
24 hr clock	bbl	ppg	psi	bpm	bbl	
19:40	0	0	0	0	0	START ACQUISITION
19:40	0	8.219	-22.9	0	0	
19:40	0	8.238	-20.49	0	0	
19:41	0	8.162	-20.08	0	0	
19:41	0	8.21	-22.6	0	0	
19:42	0	8.203	-22.4	0	0	
19:42	0	8.221	-22.9	0	0	
19:42	0	0	0	0	0	Start Job
19:42	.6116	8.141	90.4	4.495	0	
19:43	2.796	7.759	119.9	5.339	0	
19:43	5.038	7.653	92.02	5.346	0	
19:44	7.267	7.759	87.04	5.319	0	
19:44	9.495	7.766	89.35	5.313	0	
19:44	11.72	7.728	90.73	5.314	0	
19:45	0	0	0	0	0	Start Mixing Lead Slurry
19:45	13.88	11	146.7	5.032	0	
19:45	15.98	11.99	165.7	5.015	0	
19:46	18.1	12.76	182.3	5.073	0	
19:46	20.23	12.74	174.8	5.109	0	
19:47	22.39	12	151.6	5.211	0	
19:47	24.57	12.81	164.2	5.147	0	
19:47	26.7	12.93	167.5	5.075	0	

15-055-21590-0000

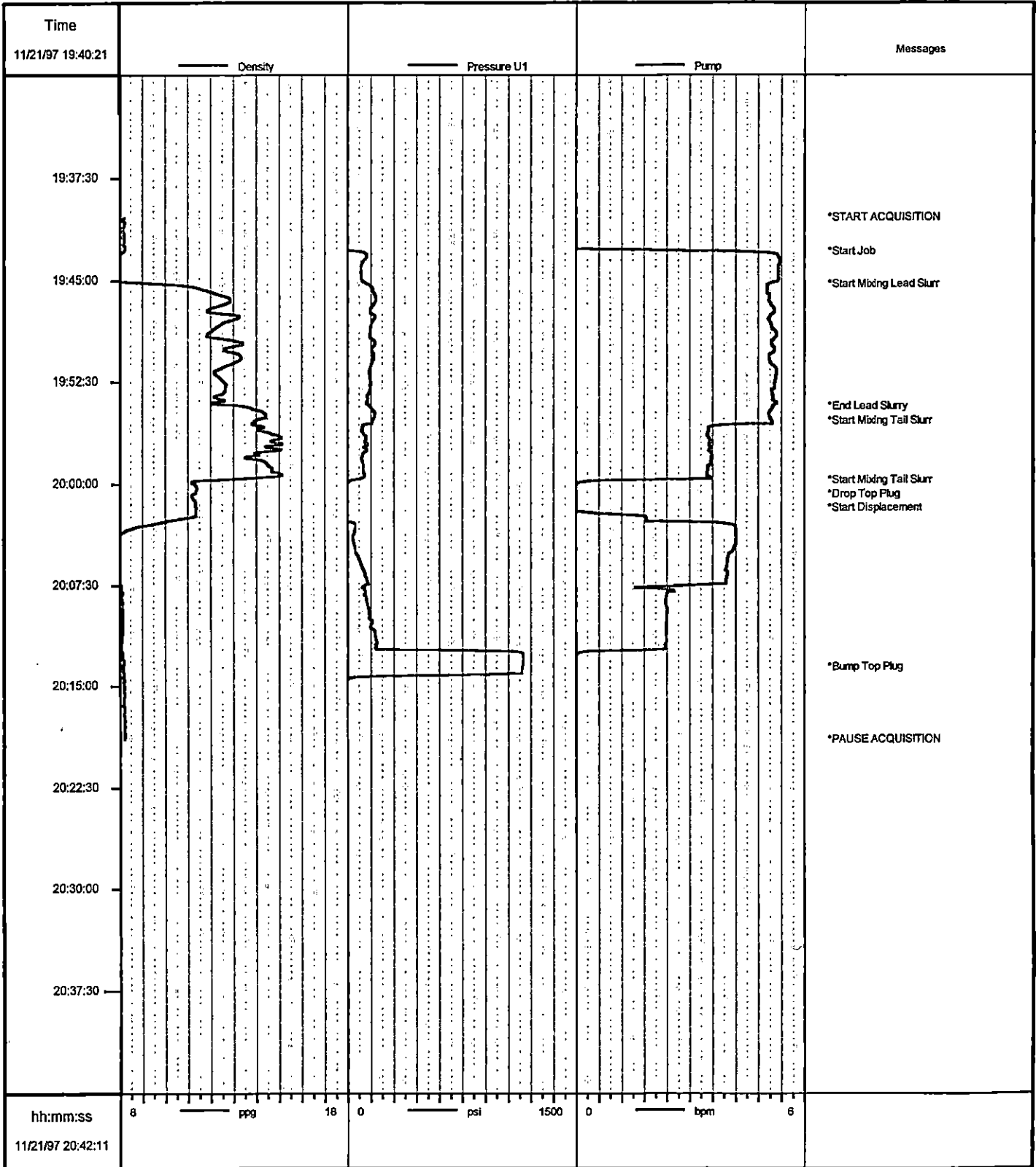
Well		Field				Service Date	Customer	Job Number
HUSTON #2-24		HUGOTON				11/21/97	KER & PARSLEY PETROL	20032082
Time	CumVol	Density	Pressure U1	Pump	REZERO	Message		
24 hr clock	bbl	ppg	psi	bpm	bbl			
19:48	28.84	12.38	153	5.138	0	0	0	RECEIVED
19:48	31.01	12.04	147.7	5.238	0	0	0	KANSAS CORP CO.
19:49	33.21	11.92	143.5	5.249	0	0	0	
19:49	35.38	13.39	178.2	5.139	0	0	0	NO DR 10 12 27
19:50	37.55	12.64	158.5	5.215	0	0	0	
19:50	39.72	13.2	166.5	5.115	0	0	0	
19:50	41.85	13.3	165.9	5.084	0	0	0	
19:51	44	12.76	151.9	5.178	0	0	0	
19:51	46.19	12.2	140.8	5.259	0	0	0	
19:52	48.4	12.35	144.5	5.256	0	0	0	
19:52	50.59	12.59	149.7	5.231	0	0	0	
19:52	52.78	12.65	147.3	5.223	0	0	0	
19:53	54.94	12.51	136.5	5.162	0	0	0	
19:53	57.11	12.51	129.9	5.163	0	0	0	
19:54	59.3	13.03	137.4	5.192	0	0	0	
19:54	0	0	0	0	0	0	0	End Lead Slurry
19:54	0	0	0	0	0	0	0	Start Mixing Tail Slurry
19:54	61.46	14.17	166.9	5.107	0	0	0	
19:55	63.59	14.44	174.5	5.084	0	0	0	
19:55	65.73	13.91	158	5.16	0	0	0	
19:55	67.47	14.27	96.36	3.5	0	0	0	
19:56	68.94	14.68	103.3	3.473	0	0	0	
19:56	70.4	14.91	116.7	3.523	0	0	0	
19:57	71.88	14.81	124.7	3.515	0	0	0	
19:57	73.36	14.76	122.8	3.512	0	0	0	
19:57	74.85	13.64	94.55	3.57	0	0	0	
19:58	76.34	14.41	98.78	3.553	0	0	0	
19:58	77.82	14.69	102.3	3.473	0	0	0	
19:59	79.27	15.03	107.2	3.452	0	0	0	
19:59	80.71	12.58	49.31	2.667	0	0	0	
19:59	0	0	0	0	0	0	0	Start Mixing Tail Slurry
19:59	0	0	0	0	0	0	0	Drop Top Plug
19:59	0	0	0	0	0	0	0	Start Displacement
20:00	80.86	11.32			0	0	0	
20:00	80.86	11.36	-12.66		0	0	0	
20:00	80.86	11.18	-19.62		0	0	0	
20:01	80.86	11.33	-22.87		0	0	0	
20:01	80.86	11.35	-22.89		0	0	0	
20:02	80.92	11.36	-11.84	.5396	0	0	0	
20:02	81.6	10.56	-4.43	1.869	0	0	0	
20:02	82.85	9.235	49.27	4.12	0	0	0	
20:03	84.61	8.264	44.49	4.203	0	0	0	
20:03	86.38	7.855	32.67	4.221	0	0	0	
20:04	88.14	7.802	36.41	4.214	0	0	0	
20:04	89.9	7.88	48.48	4.17	0	0	0	
20:05	91.63	7.969	54	4.039	0	0	0	
20:05	93.31	7.958	73.42	3.996	0	0	0	
20:05	94.98	7.909	87.43	3.978	0	0	0	
20:06	96.64	7.838	103.2	3.946	0	0	0	
20:06	98.31	7.828	116.7	3.992	0	0	0	
20:07	99.97	7.88	126.9	3.95	0	0	0	
20:07	101.4	8.075	103.6	2.116	0	0	0	
20:08	102.4	8.129	115	2.417	0	0	0	
20:08	103.4	8.072	121.3	2.38	0	0	0	

Well		Field				Service Date	Customer	Job Number
HUSTON #224 <sup>1-24</sup>		HUGOTON				11/21/97	KER & PARSLEY PETROL	20032082
Time	CumVol	Density	Pressure U1	Pump	REZERO	Message		
24 hr clock	bbl	ppg	psi	bpm	bbl			
20:08	104.4	8.119	128.9	2.371	0	0	0	RECEIVED KANSAS CORP COMM
20:09	105.4	8.153	137.2	2.406	0	0	0	1990 NOV 10 12:21
20:09	106.4	8.147	148.7	2.398	0	0	0	
20:10	107.4	8.152	160.6	2.396	0	0	0	
20:10	108.4	8.159	146.9	2.39	0	0	0	
20:10	109.4	8.163	178.8	2.384	0	0	0	
20:11	110.4	8.126	182.9	2.389	0	0	0	
20:11	111.4	8.08	191.2	2.383	0	0	0	
20:12	112.4	8.106	183.3	2.349	0	0	0	
20:12	112.6	8.131	1148		0	0	0	
20:13	112.6	8.182	1150		0	0	0	
20:13	112.6	8.163	1145		0	0	0	
20:13	0	0	0	0	0	0	0	Bump Top Plug
20:13	112.6	8.169	1140		0	0	0	
20:14	112.6	8.154	59.43		0	0	0	
20:14	112.6	8.192	-4.494		0	0	0	
20:15	112.6	8.237	-4.58		0	0	0	
20:15	112.6	8.207	-4.58		0	0	0	
20:15	112.6	8.206	-4.58		0	0	0	
20:16	112.6	8.172	-4.67		0	0	0	
20:16	112.6	8.227	-4.58		0	0	0	
20:17	112.6	8.227	-4.58		0	0	0	
20:17	112.6	8.253	-4.58		0	0	0	
20:18	112.6	8.225	-4.58		0	0	0	
20:18	112.6	8.224	-4.58		0	0	0	
20:18	112.6	8.208	-4.58		0	0	0	
20:18	0	0	0	0	0	0	0	PAUSE ACQUISITION
Post Job Summary								
Average Pump Rates, bpm				Volume of Fluid Injected, bbl				
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2	
4	0	0	5	75	0	12	0	
Treating Pressure Summary, psi				Breakdown Fluid				
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density	
1148	1148	200	1148			bbl	lb/gal	
Avg. N2 Percent	Designed Slurry Volume	Displacement		<input checked="" type="checkbox"/> Cement Circulated to Surface? Volume 5 bbl <input type="checkbox"/> Washed Thru Perfs To 0 ft				
0 %	0 bbl	30 bbl						
Customer or Authorized Representative				Dowell Supervisor		<input type="checkbox"/> Circulation Lost <input checked="" type="checkbox"/> Job Completed		
MARK REICHERT				Jeffrey Dutton				

15-055-21590-0000

Well	HUSTON	Client	PIONEER
Field	HUGOTON	SIR NO.	20024394
Country	USA	Job Date	11/21/97 7:40:21 PM

RECEIVED  
KANSAS CORP  
1997 APR 10 12:28



Job: pioneer  
11/23/1997 08:21



**ORIGINAL**

**Cementing Service Report 15-055-21590-0000**

Well Huston Unit #2-24 1-24R		Location (legal) Ks sec 24 24S-32W		Customer PIONEER NATURAL RESOURCES USA, INC.		Job Number 20032349		
Field Finney		Formation Name/Type Dolomite 1998 APR 10 9 12		Dowell Location Ulysses, KS		Service Date 11/23/97		
County Finney		State/Province Ks		Deviation 0 psi		Well MD 2,818 ft		
Rlg Name CHEYENNE 8		Drilled For Gas		Service Via Land		Well TVD 2,818 ft		
Offshore Zone		Well Class New		Well Type Development		Pore Press. Gradient 0 psi/ft		
Drilling Fluid Type Bentonite		Max. Density 9.3 lb/gal		Plastic Viscosity 0 cp		Casing/Liner		
Service Line Cementing		Job Type Cem Prod Casing		Depth, ft 2808		Size, in 5.5		
Max. Allowed Tubing Pressure 0 psi		Max. Allowed Ann. Pressure 0 psi		WellHead Connection Single cement head		Weight, lb/ft 14		
Service Instructions Cement and equipment to safely cement 5 1/2 casing as per customer's request		Perforations/Open Hole		Grade 0		Thread 0		
Casing/Tubing Secured <input type="checkbox"/>		1 Hole Volume Circulated prior to Cementin <input type="checkbox"/>		Top, ft 0		Bottom, ft 0		
Lift Pressure: <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		spf 0		No. of Shots 0		
Pipe Rotated <input type="checkbox"/>		No. Centralizers: 6		Top Plugs: 1		Bottom Plugs: 0		
Cement Head Type: Single		Job Scheduled For: 11/24/97 8:00		Arrived on Location: 11/24/97 19:00		Leave Location: 11/24/97 22:00		
Casing Tools		Squeeze Job		Total Interval 0 ft		Diameter 0 in		
Shoe Type: Guide		Shoe Depth: 2808 ft		Displacement 67.5 bbl		Packer Type		
Stage Tool Type:		Stage Tool Depth: 0 ft		Tubing Vol. 0 bbl		Casing Vol. 68.5 bbl		
Collar Type: Auto-Fill		Collar Depth: 2765 ft		Annular Vol. 0 bbl		OpenHole Vol 0 bbl		
Squeeze Type		Tool Type:		Packer Depth 0 ft		Tail Pipe Size: 0 in		
Tail Pipe Depth: 0 ft		Sqz Total Vol: 0 bbl		Tool Depth: 0 ft		Tail Pipe Depth: 0 ft		
Time	CumVol	Density	Pressure U1	TotFlowrate				Message
24 hr clock	bbl	ppg	psi	bpm				
19:51	0	0	0	0	0	0	0	START ACQUISITION
19:51	0	4.67	-3727	0	0	0	0	
19:52	0	8.476	3.727	0	0	0	0	
19:53	0	0	0	0	0	0	0	Start Pumping Wash
19:53	0	8.472	4.022	0	0	0	0	
19:55	4172E-5	8.44	1885E-9	.6665	0	0	0	
19:56	4.988	8.196	460.8	5.099	0	0	0	
19:57	10.96	8.193	459	5.139	0	0	0	
19:58	17.06	8.157	351.1	5.086	0	0	0	
19:59	0	0	0	0	0	0	0	[CumVol] = 20.85 bbl
19:59	0	0	0	0	0	0	0	Reset Volume
19:59	0	0	0	0	0	0	0	Start Pumping Water
19:59	2.135	8.073	350	5.027	0	0	0	
20:00	0	0	0	0	0	0	0	Reset Volume
20:00	0	0	0	0	0	0	0	[CumVol] = 7.116 bbl
20:00	0	0	0	0	0	0	0	Start Mixing Lead Slurry
20:00	.8411	11.2	377.9	4.981	0	0	0	
20:02	6.63	11.09	376.3	5.067	0	0	0	
20:03	12.68	10.65	289.2	5.229	0	0	0	
20:04	18.72	10.96	328.6	5.011	0	0	0	
20:05	24.69	11.75	318.8	5.086	0	0	0	
20:06	30.69	11.45	252.1	5.211	0	0	0	

Well		Field			Service Date	Customer	Job Number
Huston Unit #2 #24 1-24					11/23/97	R NATURAL RESOURCES	20032349
Time	CumVol	Density	Pressure U1	TotFlowrate	Message		
24 hr clock	bbl	ppg	psl	bpm			
20:07	36.83	11.68	223.1	5.27	0	0	0
20:09	42.99	11.77	174.1	5.225	0	0	0
20:10	49.06	11.74	173.8	5.251	0	0	0
20:11	55.2	11.06	158.5	5.265	0	0	0
20:12	61.23	11.57	168.5	5.24	0	0	0
20:13	67.32	13.13	196.6	5.085	0	0	0
20:14	73.36	11.77	170.7	5.211	0	0	0
20:16	79.49	11.67	169.2	5.249	0	0	0
20:17	85.61	11.03	151.5	5.317	0	0	0
20:17	0	0	0	0	0	0	[CumVol] = 86.41 bbl
20:17	0	0	0	0	0	0	Reset Volume
20:17	0	0	0	0	0	0	Start Mixing Tail Slurry
20:18	5.035	14.57	240.4	4.928	0	0	0
20:19	10.81	13.41	172.4	4.64	0	0	0
20:20	15.13	14.54	132.4	3.422	0	0	0
20:22	19.13	15.26	160.9	3.363	0	0	0
20:23	23.15	15.12	154.8	3.435	0	0	0
20:23	0	0	0	0	0	0	Shutdown
20:24	0	0	0	0	0	0	Reset Volume
20:24	0	0	0	0	0	0	[CumVol] = 25.13 bbl
20:33	5148E-7	8.56	3266E-12	6108E-16	0	0	0
20:33	0	0	0	0	0	0	Drop Top Plug
20:33	0	0	0	0	0	0	Start Displacement
20:34	2.081	8.393	79.89	4.56	0	0	0
20:35	8.144	8.38	112.5	5.386	0	0	0
20:36	14.64	8.454	195.1	5.735	0	0	0
20:37	21.33	8.43	246.5	5.647	0	0	0
20:39	27.92	8.399	292	5.661	0	0	0
20:40	34.61	8.392	273.4	5.693	0	0	0
20:41	41.24	8.446	345.3	5.639	0	0	0
20:42	47.84	8.435	470	5.595	0	0	0
20:43	54.39	8.442	595.7	5.57	0	0	0
20:44	60.88	8.407	774	5.599	0	0	0
20:45	0	0	0	0	0	0	Lower Pump Rate
20:46	64.42	8.412	759.9	2.291	0	0	0
20:47	67.1	8.367	747.8	2.3	0	0	0
20:48	69	8.695	1265	4066E-6	0	0	0
20:48	0	0	0	0	0	0	Bump Top Plug
20:48	0	0	0	0	0	0	Bleed Off Pressure
20:49	69	9.115	5.461	37E-12	0	0	0
20:49	0	0	0	0	0	0	End Job

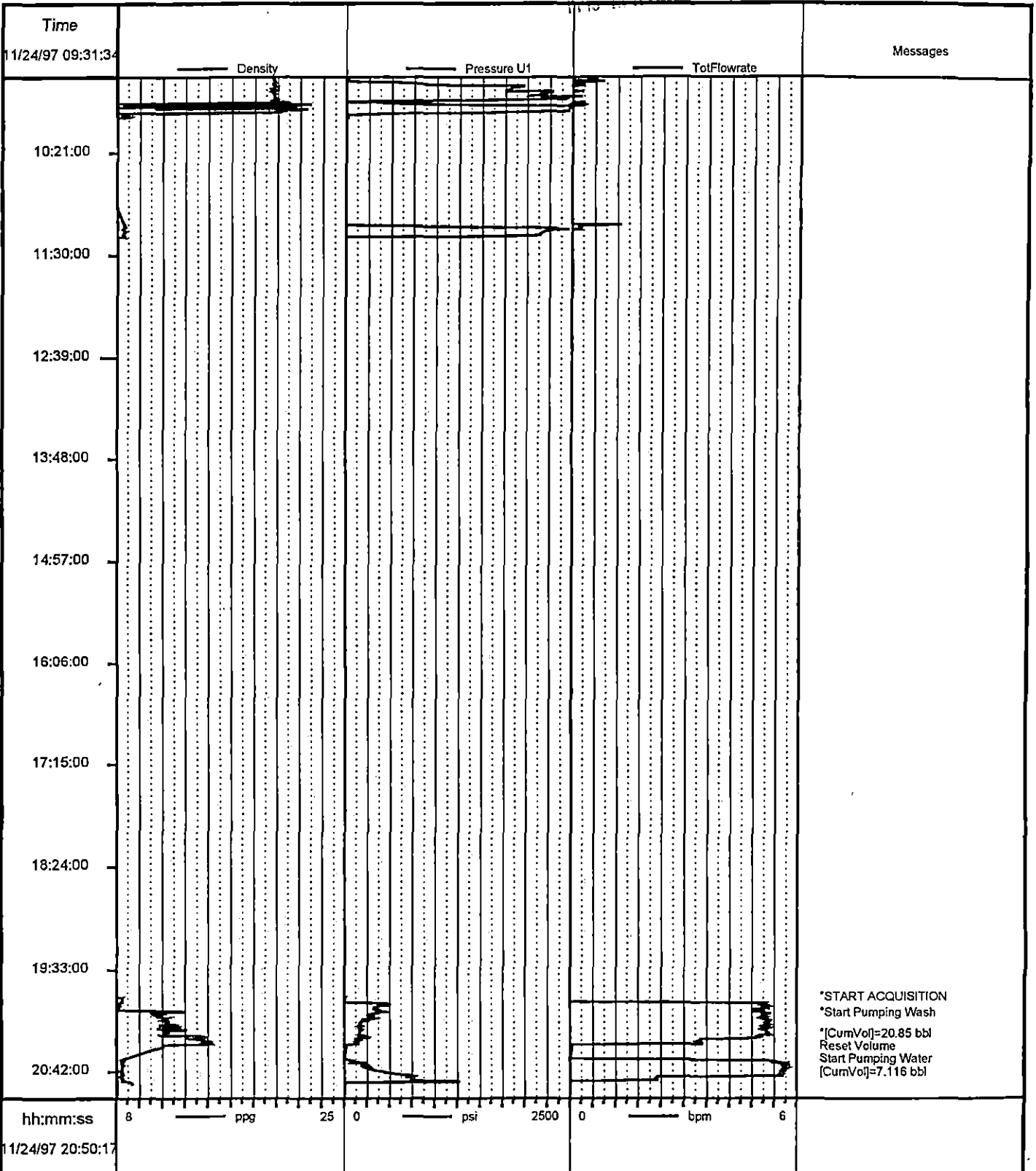
Post Job Summary

Average Pump Rates, bpm				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2
4.5	0	0	5.2	112	0	25	0
Treating Pressure Summary, psi				Breakdown Fluid			
Maximum	Final	Average	Bump Plug to Breakdown	Type	Volume	Density	
740	1260	400	0		0 bbl	0 lb/gal	
Avg. N2 Percent		Designed Slurry Volume	Displacement	<input type="checkbox"/> Cement Circulated to Surface? Volume 0 bbl <input type="checkbox"/> Washed Thru Perfs To 0 ft			
0 %		0 bbl	67.5 bbl				
Customer or Authorized Representative			Dowell Supervisor			<input type="checkbox"/> Circulation Lost <input checked="" type="checkbox"/> Job Completed	
Paul Peoples			Charley King				



15-055-21590-0000

Well	Huston 2-1	Client	Pioneer
Field	Hugoton	SIR No.	20032349
Country	USA	Job Date	11/24/97 9:31:34 AM



Job: pioneer

11/28/1997 05:54