

ORIGINAL OCT 29 1998

SIDE ONE

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

Operator: License # 4824

Name: Pioneer Natural Resources USA, Inc.

Address 14000 Quail Springs Pkwy, Suite 5000

City/State/Zip Oklahoma City, OK 73134-2600

Purchaser: Pioneer

Operator Contact Person: Mark Reichardt

Phone (405) 749-1780

RELEASED

Contractor: Name: Val Energy

License: 5822

MAY 06 2000

Wellsite Geologist: _____

FROM CONFIDENTIAL

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: _____

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. _____

7/19/98 7/22/98 8/29/98
 Spud Date Date Reached TD Completion Date

API NO. 15- 189-22294000
County Stevens CONSERVATION DIVISION WICHITA, KS

W/2 W/2 SW Sec. 13 Twp. 31S Rge. 35 X W
1,250 Feet from S (circle one) Line of Section

100 Feet from E (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)

Lease Name Moorehead Well # 3-13A
Panoma

Producing Formation Council Grove

Elevation: Ground 2,962' KB 2,967'

Total Depth 3,150' PBTB 3,092'

Amount of Surface Pipe Set and Cemented at 638' 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 API 1-11-99 U.C.
(Data must be collected from the Reserve Pit)

Chloride content 1000 ppm Fluid volume 3000 bbls

Dewatering method used Dryout/Evaporation/Backfill

Location of fluid disposal if hauled offsite: _____

Operator Name RELEASED

Lease Name _____ License No. 5822

Quarter _____ Sec. _____ Twp. _____ S Rge. _____ E/W

County Stevens Docket No. _____
FROM CONFIDENTIAL

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 [Signature]

Title Engineering Technician III Date 10/28/98

Subscribed and sworn to before me this 28th day of October

Notary Public [Signature]

Date Commission Expires August 24, 2000

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)

Operator Name Pioneer Natural Resources USA, Inc. Lease Name Moorhead Well # 3-13 A

Sec. 13 Twp. 31S Rge. 35 East West
 County Stevens

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	Three Mile	2,880'	KB
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Funston	2,946'	KB
List All E.Logs Run:		Crause	2,972'	KB
Cement Bond Log, Borehole, Compensated Sonic		Bader	3,008'	KB
Integrated Transit Time Log, Compensated Neutron		Beattie	3,064'	KB
Compensated Photo-Density Log, Array Induction				
Shallow Focused Electric 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 Casing	12 1/4"	8 5/8"	24#	638'	Class "C"	300	6%D20, 3%S1
Production Casing	7 7/8"	5 1/2"	17#	3,150'	Class "C"	340	3%D79, .2% D48 2% S1

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	
		Depth	
4	2887'-2890', 2908-2911, 2914'-2928'	Acidz'd w/2000 Gals. 15% MSR100	2887-2928
		Frac'd w/39,000 Gals. 65Q-WD130,	2887-2928
		Ramped in 85000# 16/30 Ottawa Sand	

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2 3/8"	2,914'		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First Resumed Production, SWD or Inj. Production	Producing Method
August 29, 1998	<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
		150	72		72

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

METHOD OF COMPLETION: Open Hole Perforation Dually Completed Commingled Other (Specify) _____

Production Interval: 2,887-2,928 0.A.



Cementing Service Report

ORIGINAL

Customer PIONEER NATURAL RESOURCES USA, INC.				Job Number 20069632				
Well Moorehead #3-13A		Location (legal) Sec 13-31S-35W		Dowell Location Ulysses, KS		Job Start 7/18/98		
Field Hugoton		Formation Name/Type		Deviation 0	Bit Size 12.3 in	Well MD 642 ft	Well TVD 642 ft	
County Stevens		State/Province KS		BHP 0 psi	BHST 75 °F	BHCT 70 °F	Pore Press. Gradient 0 psi/ft	
Rlg Name		Drilled For Gas		Service Via Land		Casing/Liner		
Offshore Zone		Well Class New		Well Type Development		Perforations/Open Hole		
Drilling Fluid Type Bentonite		Max. Density 9.3 lb/gal	Plastic Viscosity 30 cp	Depth, ft 0	Size, in 0	Weight, lb/ft 0	Grade 0	
Service Line Cementing		Job Type Cem Surface Casing		Depth, ft 0	Size, in 0	Weight, lb/ft 0	Grade 0	
Max. Allowed Tubing Pressure 1000 psi		Max. Allowed Ann. Pressure 0 psi		Wellhead Connection Single cement head		Perforations/Open Hole		
Service Instructions Safely cement the surface casing of the Moorehead #3-13A with 165 sks of class Poz/C lead and additives and 135 sks of class C tail plus additives as per clients instructions. Mileage 33 miles <div style="text-align: center; font-size: 2em; font-weight: bold;">CONFIDENTIAL</div>				Top, ft 0	Bottom, ft 0	spf 0	No. of Shots 0	Total Interval 0 ft
				Treat Down Casing	Displacement 37.7 bbl	Packer Type	Packer Depth ft	
				Tubing Vol. 0 bbl	Casing Vol. 40.6 bbl	Annular Vol. 46.8 bbl	Open Hole Vol 0 bbl	
				Casing Tools	Squeeze Job			
Casing/Tubing Secured <input checked="" type="checkbox"/> 1 Hole Volume Circulated prior to Cementing <input type="checkbox"/>				Shoe Type: Guide		Squeeze Type		
Lift Pressure: 175 psi				Shoe Depth: 628 ft		Tool Type:		
Pipe Rotated <input type="checkbox"/> Pipe Reciprocated <input type="checkbox"/>				Stage Tool Type		Tool Depth: 0 ft		
No. Centralizers: 5 Top Plugs: 1 Bottom Plugs: 0				Stage Tool Depth: 0 ft		Tail Pipe Size: 0 in		
Cement Head Type: Single				Collar Type:		Tail Pipe Depth: 0 ft		
Job Scheduled For: 7/18/98 15:00				Collar Depth: ft		Sqz Total Vol: 0 bbl		
Time	CumVol	Density	Pressure U1	stagevol	TotFlowrate	Message		
24 hr clock	bbl	ppg	psi	bbl	bpm			
16:45	0	0	0	0	0	START ACQUISITION		
16:45	0	7.906	9.025	0	0	KANSAS CORPORATION COMMISSION		
16:45	0	7.967	13.54	0	0	OCT 29 1998		
16:46	0	7.99	9.025	0	0			
16:46	.3129	7.929	1616	.3129	0	Pressure Test Lines		
16:47	0	0	0	0	0	CONSERVATION DIVISION		
16:47	.3129	7.906	36.1	.3129	0	WICHITA, KS		
16:48	.4075	7.906	49.64	.4075	2.936			
16:48	0	0	0	0	0	Start Job		
16:48	3.139	8.188	22.56	3.139	5.536	KCC		
16:49	5.947	8.12	58.66	5.947	5.592			
16:49	8.758	7.99	49.64	8.758	5.592	OCT 29 1998		
16:49	0	0	0	0	0	[stagevol]=0 bbl		
16:49	0	0	0	0	0	Start Mixing Lead Slurry		
16:50	11.57	10.56	58.66	.8422	5.592	CONFIDENTIAL		
16:50	14.38	12.9	130.9	3.653	5.592			
16:51	17.18	12.02	112.8	6.462	5.592			
16:51	20	11.81	99.28	9.274	5.592	RELEASED		
16:52	22.81	12.54	76.71	12.09	5.592			
16:52	25.62	13.1	112.8	14.9	5.592	OCT 06 2000		
16:53	28.43	12.36	99.28	17.71	5.62			
16:53	31.24	12.33	94.77	20.52	5.592	FROM CONFIDENTIAL		

Well		Field				Service Date	Customer	Job Number
Moorehead ##3-13A		Hugoton					IR NATURAL RESOURCES	20069632
Time	CumVol	Density	Pressure U1	stagevol	TotFlowrate	Message		
24 hr clock	bbl	ppg	psl	bbl	bpm	CONFIDENTIAL		
16:54	34.05	12.36	94.77	23.33	5.62	0	0	ORIGINAL
16:54	36.86	12.79	103.8	26.14	5.592	0	0	
16:55	39.67	12.93	112.8	28.95	5.592	0	0	
16:55	42.49	12.39	94.77	31.76	5.592	0	0	
16:56	45.3	12.36	94.77	34.57	5.592	0	0	
16:56	48.11	12.39	90.25	37.38	5.592	0	0	
16:57	50.92	12.64	103.8	40.19	5.592	0	0	
16:57	53.73	12.47	99.28	43	5.62	0	0	
16:58	56.54	12.47	99.28	45.81	5.592	0	0	
16:58	59.35	12.48	94.77	48.63	5.564	0	0	
16:59	62.16	12.53	99.28	51.44	5.592	0	0	
16:59	64.97	12.42	99.28	54.25	5.592	0	0	
16:59	0	0	0	0	0	0	0	CONSERVATION DIVISION WICHITA, KS
17:00	67.78	14.11	117.3	56.19	5.592	0	0	
17:00	0	0	0	0	0	0	0	Start Mixing Tail Slurry
17:00	70.59	13.84	121.8	3.372	5.592	0	0	
17:01	73.4	14.74	148.9	6.181	5.592	0	0	
17:01	76.21	14.74	153.4	8.992	5.564	0	0	
17:02	79.02	14.42	139.9	11.8	5.592	0	0	
17:02	81.83	14.5	135.4	14.61	5.592	0	0	
17:03	84.64	14.49	135.4	17.42	5.592	0	0	KCC
17:03	87.45	14.74	144.4	20.24	5.592	0	0	
17:04	90.26	14.47	135.4	23.05	5.592	0	0	OCT 29 1998
17:04	93.07	14.44	130.9	25.85	5.592	0	0	CONFIDENTIAL
17:05	95.88	14.68	126.4	28.67	5.592	0	0	
17:05	98.69	14.41	157.9	31.47	5.592	0	0	
17:06	101.5	13.99	130.9	34.29	5.592	0	0	
17:06	0	0	0	0	0	0	0	[stagevol]=0 bbl
17:06	0	0	0	0	0	0	0	Drop Top Plug
17:06	0	0	0	0	0	0	0	Start Displacement
17:06	101.7	13.13	0	.1007	0	0	0	
17:07	101.7	13.28	0	.1007	0	0	0	
17:07	101.7	13.1	0	.1007	0	0	0	
17:08	101.8	13.39	31.59	.1208	.9786	0	0	
17:08	104	10.58	103.8	2.362	5.62	0	0	
17:09	106.8	8.425	40.61	5.174	5.592	0	0	
17:09	109.6	8.02	36.1	7.985	5.592	0	0	
17:10	112.4	7.906	49.64	10.8	5.592	0	0	
17:10	115.2	7.73	81.23	13.61	5.592	0	0	
17:11	118.1	8.074	81.23	16.42	5.592	0	0	RELEASED
17:11	120.9	7.776	85.74	19.23	5.592	0	0	
17:12	123.7	7.814	108.3	22.04	5.592	0	0	JULY 06 2000
17:12	126.5	7.898	130.9	24.85	5.564	0	0	
17:13	129.3	7.761	157.9	27.66	5.592	0	0	FROM CONFIDENTIAL
17:13	132.1	7.647	176	30.47	5.592	0	0	
17:14	134.9	7.624	194	33.28	5.592	0	0	
17:14	137.7	7.563	203.1	36.09	5.592	0	0	
17:15	138.9	7.547	139.9	37.25	1.985	0	0	
17:15	139.9	7.647	148.9	38.25	2.013	0	0	
17:16	140.9	7.303	162.5	39.26	2.013	0	0	
17:16	141.9	7.326	171.5	40.26	1.985	0	0	
17:17	142.7	5.495	1047	41.1	0	0	0	
17:17	142.7	6.731	1065	41.1	0	0	0	
17:18	142.7	6.616	0	41.1	0	0	0	

CONFIDENTIAL

ORIGINAL

KCC

OCT 29 1998

CONFIDENTIAL

Well Moorehead ##3-13A		Field Hugoton			Service Date	Customer R NATURAL RESOURCES	Job Number 20069632
Time 24 hr clock	CumVol bbl	Density ppg	Pressure U1 psi	stagevol bbl	TotFlowrate bpm	Message	
17:18	142.7	6.418	9.025	41.1	0	0	0
17:18	0	0	0	0	0	0	Shutdown
Post Job Summary							
Average Pump Rates, bpm				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2
5.6	0	0	5.7	90	0	10	0
Treating Pressure Summary, psi					Breakdown Fluid		
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density
175	1060	110	1060	0		0 bbl	0 lb/gal
Avg. N2 Percent	Designed Slurry Volume	Displacement		<input checked="" type="checkbox"/> Cement Circulated to Surface? Volume 6 bbl <input type="checkbox"/> Washed Thru Perfs To 0 ft (17 Secs)			
0 %	0 bbl	37.7 bbl					
Customer or Authorized Representative Mike Harris			Dowell Supervisor Danny Reid			<input type="checkbox"/> Circulation Lost <input checked="" type="checkbox"/> Job Completed	

RECEIVED
KANSAS CORPORATION COMMISSION

OCT 29 1998

CONSERVATION DIVISION
WICHITA, KS

RELEASED

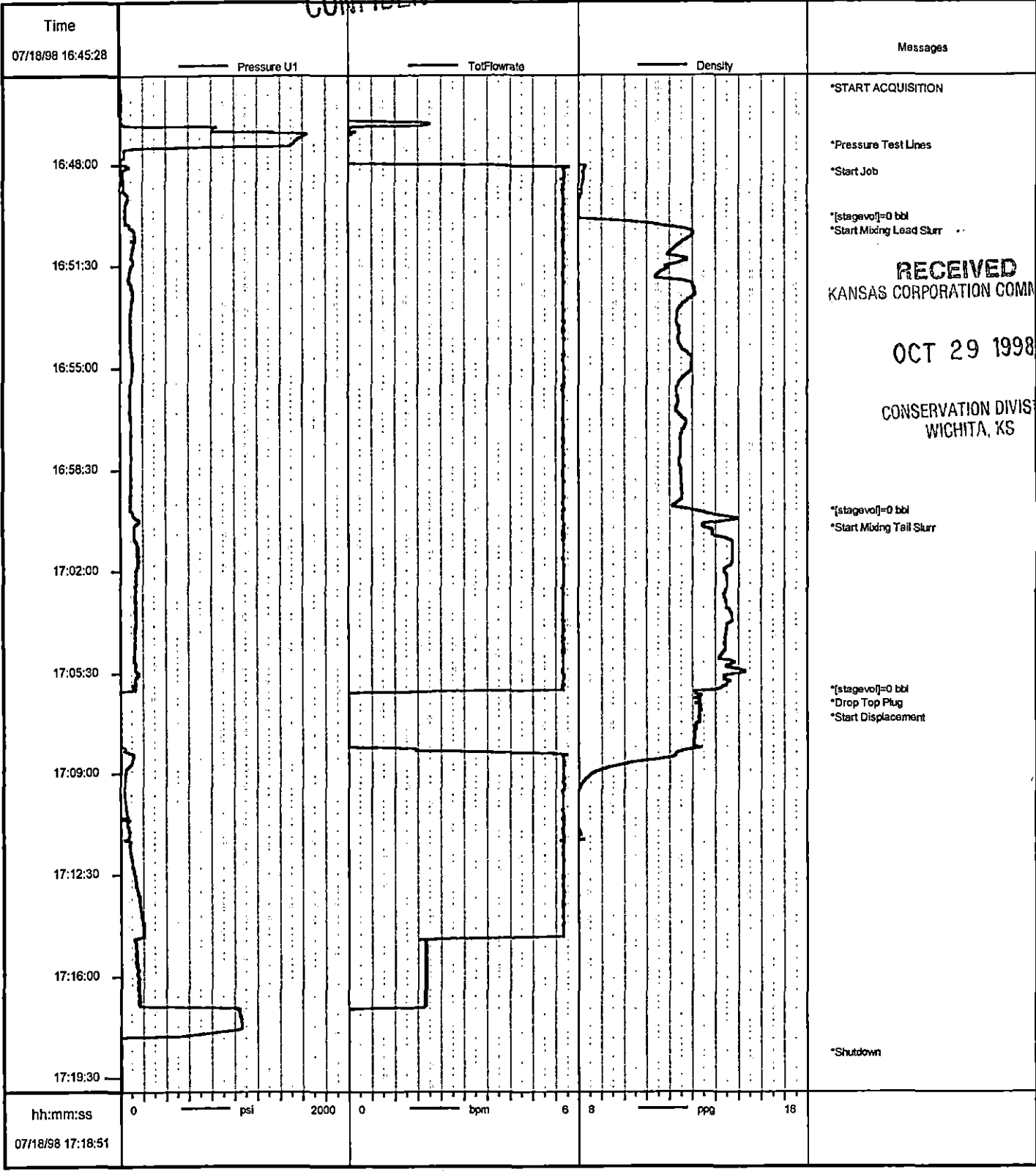
MAY 06 2000

FROM CONFIDENTIAL

Well	Moorehead #3-13A	KCC OCT 29 1998	Client	Pioneer Natural Resource
Field	Hugoton		SIR No.	20069632
Country	USA		Job Date	7/18/98 4:45:28 PM

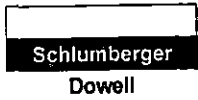
ORIGINAL

CONFIDENTIAL



Job: p1069632
07/18/1998 17:20

* Mark of Schlumberger



CONFIDENTIAL

Cementing Service Report ORIGINAL

Customer: PIONEER NATURAL RESOURCES USA, INC. Job Number: 20070845

Well: Moorehead 3-13A		Location (legal): SEC. 13-31S-35W		Dowell Location: Ulysses, KS		Job Start: 7/22/98		
Field	Formation Name/Type: Dolomite		Deviation: 0	Bit Size: 7.88 in	Well MD: 3,150 ft	Well TVD: 3,150 ft		
County: Stevens	State/Province: Kansas		BHP: 0 psi	BHST: 100 °F	BHCT: 80 °F	Pore Press. Gradient: 0 psi/ft		
Rig Name	Drilled For: Gas	Service Via: Land		Casing/Liner				
Offshore Zone	Well Class: New	Well Type: Development		Depth, ft: 3150	Size, in: 5.5	Weight, lb/ft: 17	Grade: K55	Thread: 8RD
Drilling Fluid Type: Bentonite		Max. Density: 9.2 lb/gal	Plastic Viscosity: 0 cp	Tubing/Drill Pipe				
Service Line: Cementing	Job Type: Cem Prod Casing		Depth, ft: 0	Size, in: 0	Weight, lb/ft: 0	Grade:	Thread:	
Max. Allowed Tubing Pressure: 2000 psi	Max. Allowed Ann. Pressure: 2000 psi	Wellhead Connection: Single cement head		Perforations/Open Hole				
Service Instructions: 145 Sks. Class C + 3% D79 + 0.2% D46 + 2% S1 + 0.25 #/sk. D29 195 Sks. Class C + 2% S1 + 2% B28 + 0.6% D60 + 0.2% D46 30 BBL CW100				Top, ft: 0	Bottom, ft: 0	spf: 0	No. of Shots: 0	Total Interval: 0 ft
				Treat Down Casing	Displacement: 64 bbl	Packer Type:	Packer Depth: 0 ft	
				Tubing Vol.: 0 bbl	Casing Vol.: 65 bbl	Annular Vol.: 98 bbl	Open Hole Vol.: 0 bbl	
Casing/Tubing Secured: <input checked="" type="checkbox"/>	1 Hole Volume Circulated prior to Cementing: <input type="checkbox"/>		Casing Tools		Squeeze Job			
Lift Pressure: 923 psi	Pipe Rotated: <input type="checkbox"/>	Pipe Reciprocated: <input type="checkbox"/>		Shoe Type: Guide	Squeeze Type:			
No. Centralizers: 10	Top Plugs: 1	Bottom Plugs: 0		Shoe Depth: 3150 ft	Tool Type:			
Cement Head Type: Single	Job Scheduled For: 7/21/98 23:00		Arrived on Location: 7/21/98 11:00	Leave Location: 7/22/98	Stage Tool Type:	Tool Depth: 0 ft		
				Stage Tool Depth: 0 ft	Tail Pipe Size: 0 in			
				Collar Type: Auto-Fill	Tail Pipe Depth: 0 ft			
				Collar Depth: 3130 ft	Sqz Total Vol: 0 bbl			
Time	CumVol	Density	Pressure	TotFlowrate	TotVol	Message		
24 hr clock	bbl	ppg	psi	bpm	bbl			
2:41	0	0	0	0	0	START ACQUISITION		
2:41	0	5	-3541	0	0			
2:42	0	0	0	0	0	Start Pumping Wash		
2:42	3.748	8.212	249.1	5.617	3.748	RECEIVED		
2:43	9.411	8.218	269.7	5.79	9.411	KANSAS CORPORATION COMMISSION		
2:44	15.4	8.217	270.3	5.988	15.4	OCT 29 1998		
2:45	21.43	8.22	292	6.03	21.43			
2:46	27.51	8.198	280.6	5.988	27.51			
2:47	33.49	8.199	290.9	5.988	33.49	CONSERVATION DIVISION		
2:47	0	0	0	0	0	End Wash WICHITA, KS		
2:48	39.61	8.05	276.8	6.097	39.61			
2:49	45.74	8.137	277	6.116	45.74			
2:49	0	0	0	0	0	[CumVol]=48.39 bbl		
2:49	0	0	0	0	0	Reset Volume KCC		
2:50	0	0	0	0	0	Start Mixing Lead Slurry		
2:50	3.313	10.66	310.1	5.988	51.81	OCT 29 1998		
2:51	9.338	11.3	328.1	6.024	57.83			
2:52	15.37	11.65	309.8	6.008	63.87	RELEASED CONFIDENTIAL		
2:53	21.5	11.46	279.4	6.076	69.99			
2:54	27.62	11.78	256.5	6.12	76.12	MAY 06 2000		
2:55	33.78	11.38	208.5	6.124	82.28			
2:56	39.94	12.08	224.8	6.118	88.43	FROM CONFIDENTIAL		

Well		Field				Service Date	Customer	Job Number
Moorehead #3-13A							IR NATURAL RESOURCES	20070845
Time	CumVol	Density	Pressure	TotFlowrate	TotVol	Message		
24 hr clock	bbl	ppg	psi	bpm	bbl	CONFIDENTIAL ORIGINAL		
2:57	46.08	11.24	200.9	6.121	94.57	0	0	
2:58	52.23	11.69	210	6.086	100.7	0	0	
2:59	58.36	11.58	206.9	6.13	106.9	0	0	
3:00	64.5	11.56	203.8	6.107	113	0	0	
3:01	0	0	0	0	0	0	0	End Lead Slurry
3:01	0	0	0	0	0	0	0	Reset Volume
3:01	0	0	0	0	0	0	0	[CumVol]=70.55 bbl
3:01	0	12.59	222.3	6.081	119.2	0	0	
3:01	0	0	0	0	0	0	0	Start Mixing Tail Slurry
3:02	6.069	14.01	273.3	6.038	125.2	0	0	
3:03	12.11	15.05	311.2	5.957	131.3	0	0	
3:04	18.1	15	310.5	6.01	137.2	0	0	
3:05	24.08	15.16	308.8	5.937	143.2	0	0	
3:06	30.12	14.93	300.7	5.996	149.3	0	0	
3:07	36.16	14.72	293.8	6.055	155.3	0	0	
3:08	42.18	15.07	310.7	5.938	161.3	0	0	
3:09	0	0	0	0	0	0	0	End Tail Slurry
3:09	0	0	0	0	0	0	0	Reset Volume
3:09	0	0	0	0	0	0	0	[CumVol]=46.13 bbl
3:09	0	12.99	4.391	0	165.3	0	0	
3:09	0	0	0	0	0	0	0	Shutdown
3:09	0	0	0	0	0	0	0	PAUSE ACQUISITION
3:18	0	0	0	0	0	0	0	RESTART AFTER PAUSE
3:18	0	8.715	-13.58	0	165.3	0	0	
3:19	1.053	8.683	68.02	4.451	166.3	0	0	
3:20	6.042	8.646	82.65	4.999	171.3	0	0	
3:21	11.05	8.623	77.95	4.919	176.3	0	0	
3:22	16.23	8.628	98.36	5.796	181.5	0	0	
3:23	22.1	8.582	126.2	5.896	187.4	0	0	
3:24	28.06	8.556	132.9	5.978	193.3	0	0	
3:25	34.03	8.524	130.8	5.93	199.3	0	0	
3:26	40.01	8.49	214.5	5.931	205.3	0	0	
3:27	45.87	8.495	337.8	5.807	211.2	0	0	
3:28	51.67	8.464	436.2	5.762	216.9	0	0	
3:29	0	0	0	0	0	0	0	Lower Pump Rate
3:29	55.82	8.432	323.7	2.126	221.1	0	0	
3:30	57.91	8.442	355.7	2.057	223.2	0	0	
3:31	59.95	8.464	381.8	1.96	225.2	0	0	
3:32	61.92	8.479	418.6	1.985	227.2	0	0	
3:33	63.97	8.488	466.3	2.137	229.3	0	0	
3:34	66.19	8.372	515.4	2.286	231.5	0	0	
3:35	68.56	8.414	573.7	2.421	233.8	0	0	
3:36	70.95	8.425	616.2	2.325	236.2	0	0	
3:37	72.65	8.386	1075	0	237.9	0	0	
3:37	0	0	0	0	0	0	0	Bump Top Plug
3:38	72.65	8.399	1.103	0	237.9	0	0	
3:39	72.65	8.385	.6708	0	237.9	0	0	
3:40	72.65	8.375	2.671	0	237.9	0	0	
3:41	73.06	8.384	1099	0	238.3	0	0	
3:42	73.06	8.382	615.4	0	238.3	0	0	
3:43	73.06	8.389	1.549	0	238.3	0	0	
3:44	73.06	8.375	2.135	0	238.3	0	0	
3:45	73.06	8.599	1.219	0	238.3	0	0	
3:46	73.06	9.102	.8034	0	238.3	0	0	

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Well Moorehead #3-13A		Field CONFIDENTIAL		Service Date		Customer :R NATURAL RESOURCES		Job Number 20070845	
Time	CumVol	Density	Pressure	TotFlowrate	TotVol	Message			
24 hr clock	bbbl	ppg	psi	bpm	bbbl	ORIGINAL			
3:47	73.06	8.78	.6663	0	238.3	0	0		
3:48	0	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		
5	0	0	6	119	0	15	0		
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density		
1100	1100	250	0	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		72.6 bbl					
Customer or Authorized Representative				Dowell Supervisor			<input type="checkbox"/> Circulation Lost <input checked="" type="checkbox"/> Job Completed		
Mike Harris				Jeffrey Dutton					

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CONFIDENTIAL Service Order

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22-Jul-98



Customer PIONEER NATURAL RESOURCES USA,		Person Taking Call FRANCISCO DENNIS		Dowell Location Ulysses, KS		OrderDate 7/21/98		Job Number 20070845		
Well Name and Number Moorehead 3-13A			Legal Location SEC. 13-31S-35W		Field		County Stevens		State/Province Kansas	
Rig Name		Well Age New	Sales Engineer GRENVIK GREGORY			Job Type Cem Prod Casing				
Time Well Ready: 7/21/98 11:00 PM		Deviation 0	Bit Size 7.88 in	Well MD 3,150 ft	Well TVD 3,150 ft	BHP 0 psi	BHST 100 °F	BHCT 80 °F		
Treat Down Casing	Packer Type	Packer Depth 0 ft	WellHead Connection Single cement head		HHP on Location 0	Max Allowed Pressure 2000		Max Allowed AnnPressure 2000		
Casing					Services Instructions: 145 Sks. Class C + 3% D79 + 0.2% D46 + 2% S1 + 0.25 #/sk. D29 195 Sks. Class C + 2% S1 + 2% B28 + 0.6% D60 + 0.2% D46 30 BBL CW100 Extra Equipment: 1- 5 1/2 cement nose guide shoe 1- 5 1/2 orifice fill float collar 10- 5 1/2 centralizers 1- 5 1/2 top plastic plug 1- 5 1/2 stop ring 1- thread lock kit					
Depth, ft	Size, In	Weight, lb/ft	Grade	Thread						
3150	5.5	17	K55	8RD						
0	0	0								
Tubing										
Depth,	Size, In	Weight, lb/ft	Grade	Thread						
0	0	0								
0	0	0								
Perforated Intervals										
Top, ft	Bottom, ft	spf	No. of Shots	Total Interval						
0	0	0	0	0 ft						
0	0	0	0	Diameter						
0	0	0	0	0 in						

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Contact	Voice	Mobile	FAX	Notes
Mike Harris	1-580-821-2491			

Notes:
Take chemicals for 30 BBL CW100

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Directions:
MOSCOW KS. -East & NorthEast on Hwy. 56 to Cave Ks. - 50 ft. South - 3.5 mi. East on gravel rd. South into location

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Other Notes:

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Comments:

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Fluid Systems:

System: LEAD 145 SKS. Class C + 3% D79 + 0.2% D46 + 2% S1 + 0.25 #SK D29

Density:	11.5	lb/gal	Thickening Time:	
Yield:	2.75	ft ³ /sk	Viscosity:	cp
H2O:	2421.5	gal	Break Time:	
			Eq. Sack Weight:	94 lb

Dowell Code	Conc./Amount	Unit	Total Quantity
D29	0.25	lbs/sk	36.25
D46	0.188	lbs/sk	27.26
S001	1.88	lbs/sk	272.6
D79	2.82	lbs/sk	408.9
D903	145	sacks	145

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System: TAIL 195 SKS. Class C + 2% S1 + 2% B28 + 0.6% D60 + 0.2% D46

Density:	14.8	lb/gal	Thickening Time:	
Yield:	1.37	ft ³ /sk	Viscosity:	cp
H2O:	1251.9	gal	Break Time:	
			Eq. Sack Weight:	0 lb

Dowell Code	Conc./Amount	Unit	Total Quantity
D46	0.188	lbs/sk	36.66
D600	0.564	lbs/sk	109.98
B28	1.88	lbs/sk	366.6
S001	1.88	lbs/sk	366.6
D903	195	sacks	195

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System: CW100 30 BBLS

Density:	8.34	lb/gal	Thickening Time:	
Yield:		ft ³ /sk	Viscosity:	cp
H2O:	1260	gal	Break Time:	
			Eq. Sack Weight:	0 lb

Dowell Code	Conc./Amount	Unit	Total Quantity
H2O	30	bbl	30
J237A	7.5	gal	7.5
D122A	15	gal	15

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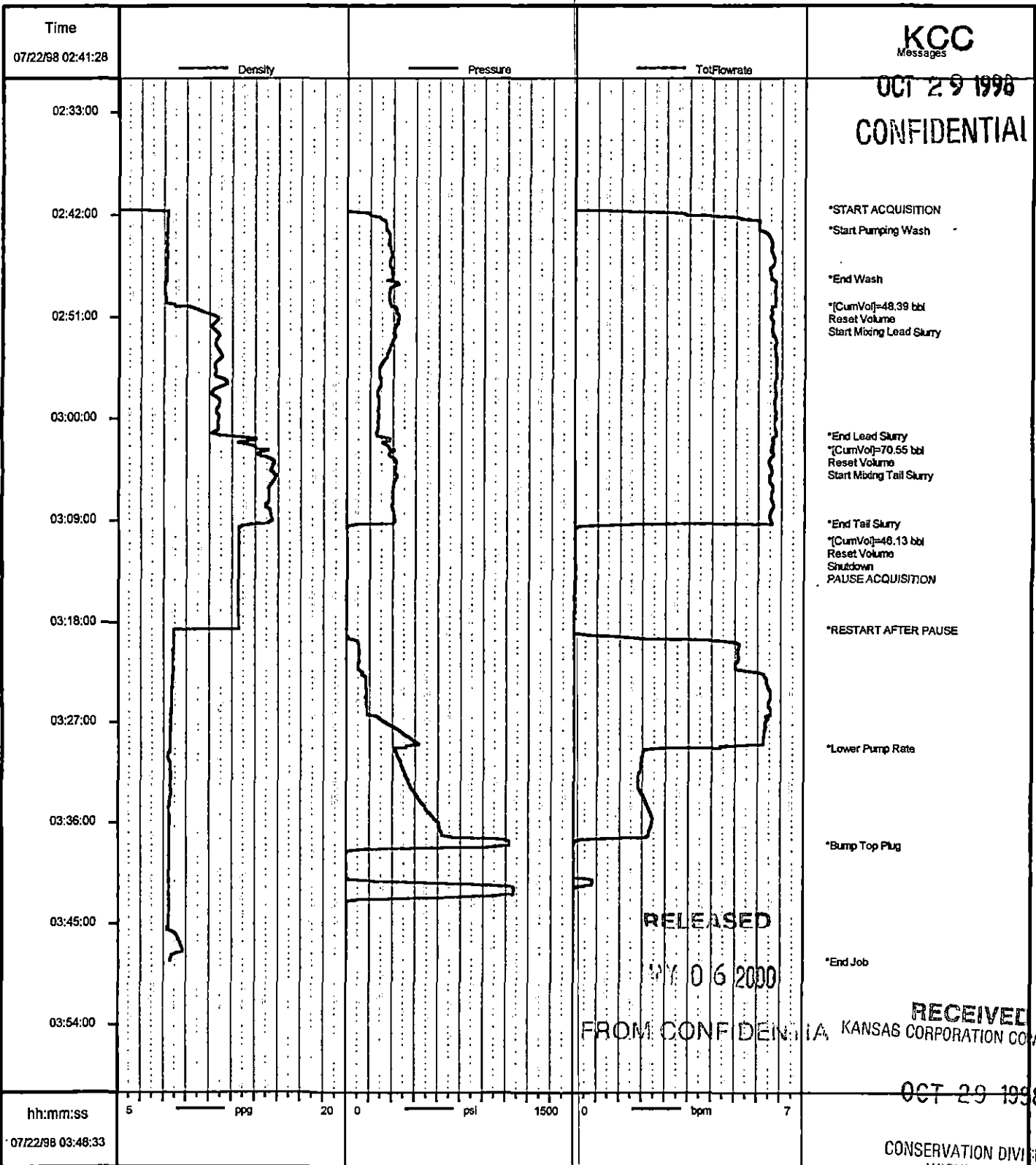
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Well	Moorehead 3-13a	Client	Pioneer
Field	CONFIDENTIAL	SIR No.	20070845
Country		USA	Job Date



Job: pio70845
07/22/1998 03:50

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Schlumberger
Dowell

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Cementing Service Report

ORIGINAL

Customer: PIONEER NATURAL RESOURCES USA, INC. Job Number: 20069992

Well: Moorehead 3-13		Location (legal): Sec. 13-31S-35W		Dowell Location: Ulysses, KS		Job Start: 7/16/98	
Field: Hugoton		Formation Name/Type:		Deviation: 0		Well MD: 542 ft	
County: Stevens		State/Province: KS		BHP: 0 psi		Well TVD: 542 ft	
Rig Name:		Drilled For: Gas		Service Via: Land		Casing/Liner:	
Offshore Zone:		Well Class: New		Well Type: Development		Depth, ft: 0	
Drilling Fluid Type: Bentonite		Max. Density: 8.9 lb/gal		Plastic Viscosity: 0 cp		Tubing/Drill Pipe:	
Service Line: Cementing		Job Type: Plug & Abandon		Depth, ft: 420		Size, in: 4.5	
Max. Allowed Tubing Pressure: 1000 psi		Max. Allowed Ann. Pressure: 0 psi		Wellhead Connection: 4 1/2" XH DP pin		Weight, lb/ft: 16.6	
Service Instructions: Safety plug the Moorehead 3-13 with 100 sks of 12-3 RFC as per client's instructions. Mileage 33 miles		Perforations/Open Hole:		Top, ft: 0		Bottom, ft: 0	
				spf: 0		No. of Shots: 0	
				Total Interval: 0 ft		Diameter: 0 in	
		Treat Down Drill Pipe:		Displacement: 3.5 bbl		Packer Type:	
		Tubing Vol.: 6 bbl		Casing Vol.: 0 bbl		Annular Vol.: 53 bbl	
		Casing Tools:		Squeeze Job:		Packer Depth: 0 ft	
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Volume Circulated prior to Cementing <input type="checkbox"/>		Shoe Type:		Squeeze Type:	
Lift Pressure: 440 psi		Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth: ft	
No. Centralizers: 0		Top Plugs: 0		Bottom Plugs: 0		Tool Type:	
Cement Head Type: Swadge		Stage Tool Type:		Tool Depth: 0 ft		Stage Tool Depth: 0 ft	
Job Scheduled For: 7/16/98		Arrived on Location: 7/16/98 11:00		Leave Location: 7/16/98 19:00		Tail Pipe Size: 0 in	
						Collar Type:	
						Collar Depth: ft	
						Sqz Total Vol: 0 bbl	
						MESSAGE	
						ANSAS CORPORATION	
						ON COMMISSION	
						OCT 29 1998	
						CONSERVATION DIVISION	
						WICHITA, KS	
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						start pumping water	
						start pumping plug	

Well		Field				Service Date	Customer	Job Number
Moorehead #3-13		Hugoton					IR NATURAL RESOURCES	20069992
Time	CumVol	Density	Pressure U1	stagevol	TotFlowrate	Message		
24 hr clock	bbl	ppg	psi	bbl	bpm			
17:05	15.28	14.38	36.11	4.825	2.153	0	0	
17:06	16.9	15.08	31.6	6.445	2.153	0	0	
17:06	18.52	15.04	36.11	8.067	2.125	0	0	
17:07	20.14	14.97	36.11	9.688	2.153	0	0	
17:08	21.76	14.99	36.11	11.31	2.153	0	0	
17:09	23.38	14.29	36.11	12.93	2.153	0	0	
17:10	25.01	15.02	27.08	14.55	2.153	0	0	
17:10	26.63	14.6	27.08	16.17	2.153	0	0	
17:11	0	0	0	0	0	0	0	[stagevol]=0 bbl
17:11	28.25	11.57	-4.514	.8656	2.153	0	0	
17:11	0	0	0	0	0	0	0	start displacement
17:12	29.87	10.45	-9.028	2.486	2.153	0	0	
17:12	0	0	0	0	0	0	0	Shutdown
17:13	30.69	10.29	-4.514	3.31	0	0	0	
17:13	30.69	9.76	4.514	3.31	0	0	0	
17:14	30.69	10.39	13.54	3.31	0	0	0	
17:15	30.69	10.16	13.54	3.31	0	0	0	
17:16	30.69	10.41	13.54	3.31	0	0	0	
17:16	30.69	10	13.54	3.31	0	0	0	
17:17	30.69	9.951	13.54	3.31	0	0	0	
17:18	30.69	9.829	13.54	3.31	0	0	0	
17:19	31.93	9.272	31.6	4.543	3.551	0	0	
17:19	34.59	8.112	-31.6	7.211	3.523	0	0	
17:20	37.3	8.143	-40.63	9.913	3.607	0	0	
17:21	40.02	7.784	-22.57	12.64	3.607	0	0	
17:22	0	0	0	0	0	0	0	[stagevol]=0 bbl
17:22	41.21	7.853	-18.06	0	0	0	0	
17:22	41.21	7.944	-4.514	0	0	0	0	
17:23	41.21	7.906	4.514	0	0	0	0	
17:24	41.21	7.982	4.514	0	0	0	0	
17:25	41.21	7.921	9.028	0	0	0	0	
17:25	41.21	7.906	13.54	0	0	0	0	
17:26	41.21	7.906	9.028	0	0	0	0	
17:27	41.21	7.914	9.028	0	0	0	0	
17:28	41.21	7.898	13.54	0	0	0	0	
17:28	41.21	7.906	4.514	0	0	0	0	
17:29	41.21	7.906	4.514	0	0	0	0	
17:29	0	0	0	0	0	0	0	PAUSE ACQUISITION
18:12	0	0	0	0	0	0	0	RESTART AFTER PAUSE
18:12	41.21	0	0	0	0	0	0	
18:12	41.21	0	4.514	0	0	0	0	
18:13	41.21	0	4.514	0	0	0	0	
18:14	0	0	0	0	0	0	0	start water
18:14	41.96	8.265	4.514	.7559	2.181	0	0	
18:14	0	0	0	0	0	0	0	start cement casing
18:15	43.62	14.92	27.08	2.412	2.181	0	0	
18:15	45.28	14.44	40.63	4.07	2.209	0	0	
18:16	46.93	14.74	40.63	5.727	2.237	0	0	
18:17	48.59	13.48	36.11	7.384	2.209	0	0	
18:18	49.18	13.06	18.06	7.973	1.482	0	0	
18:18	50.36	12.97	-18.06	9.154	1.594	0	0	
18:19	50.42	13.22	4.514	9.21	0	0	0	
18:20	50.42	13.06	4.514	9.21	0	0	0	
18:21	50.42	13.12	4.514	9.21	0	0	0	

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Well Moorehead #3-13		Field Hugoton		Service Date		Customer R NATURAL RESOURCES		Job Number 20069992				
Time 24 hr clock	CumVol bbl	Density ppg	Pressure U1 psi	stagevol bbl	TotFlowrate bpm	Message CONFIDENTIAL ORIGINAL						
18:21	50.75	11.25	27.08	9.544	1.398	0	0					
Post Job Summary												
Average Pump Rates, bpm					Volume of Fluid Injected, bbl							
Slurry		N2		Mud	Maximum Rate		Total Slurry		Mud	Spacer	N2	
2.1		0			2.25		26.3		0		10	0
Treating Pressure Summary, psi					Breakdown Fluid							
Maximum	Final	Average		Bump Plug to	Breakdown		Type 12-3 RFC		Volume	Density		
85	27	40		0	0				26.30	bbl	14.9 lb/gal	
Avg. N2 Percent		Designed Slurry Volume		Displacement		<input type="checkbox"/> Cement Circulated to Surface?		Volume		0 bbl		
0 %		0 bbl		3 bbl		<input type="checkbox"/> Washed Thru Perfs		To		0 ft		
Customer or Authorized Representative Mike Harris				Dowell Supervisor Danny Reid				<input type="checkbox"/> Circulation Lost		<input checked="" type="checkbox"/> Job Completed		

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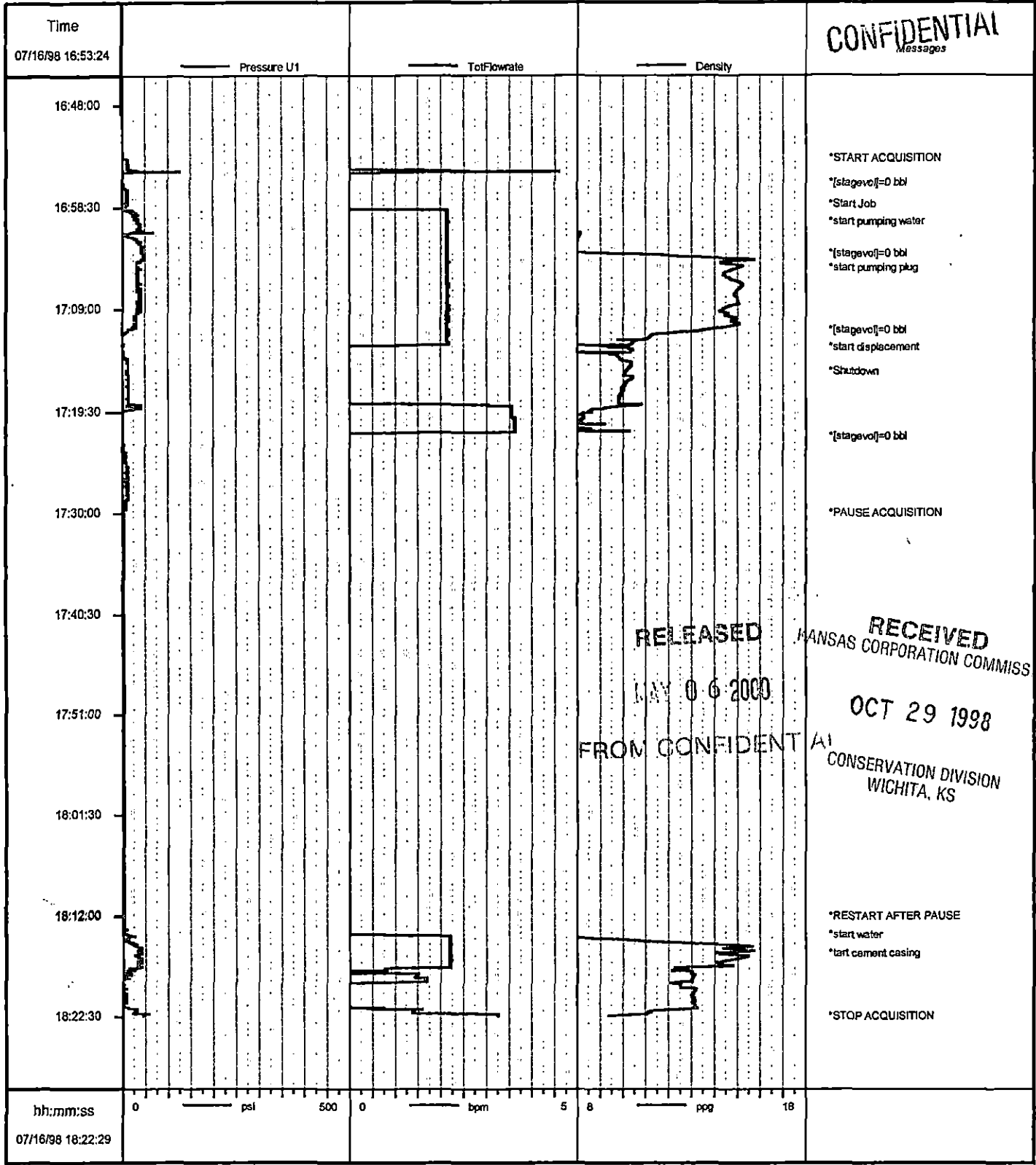
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Well	Moorehead #3-13	CONFIDENTIAL	Client	Pioneer Natural Resource	KCC
Field	Hugoton		SIR No.	20069992	
Country	USA		Job Date	7/16/98 4:53:24 PM	

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Job: p1069992
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