

FORM MUST BE TYPED

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

API NO. 15- 075-206470000

County Hamilton

    NW     SE     SE Sec. 36 Twp. 21S Rps. 41 X     E

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

1250 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 HCU Well # 36-11B

Field Name Bradshaw

Producing Formation Chase

Elevation: Ground 3603 KB    

Total Depth 3007 PSTD 2957

Amount of Surface Pipe Set and Cemented at 225 Feet

Multiple Stage Cementing Collar Used? Yes X No    

If yes, show depth set     Feet

If Alternate II completion, cement circulated from 3000

feet depth to Surface w/ 460 sx cnt.

Drilling Fluid Management Plan ALT 2 97 7-2-98  
(Data must be collected from the Reserve P(c))

Chloride content 18,000 ppm Fluid volume 800 bbls

Dewatering method used evaporation 10-22-97

Location of fluid disposal if hauled offsite:    

Operator Name HCU

Lease Name 99T 20 License No.    

Quarter 1 Sec. 1 Twp. 5 Rng.     E/W    

County Hamilton Docket No.    

Operator: License # 04680

Name: American Exploration Company

Address 1331 Lamar, Suite 900

City/State/Zip Houston, Texas 77010-3088

Purchaser: K-N Gas Marketing

Operator Contact Person: Melinda Mayse

Phone (713) 756-6338

Contractor: Name: Cheyenne Drilling

License: 5382

Wellsite Geologist: N/A

Designate Type of Completion  
 New Well  Re-Entry  Workover

Oil  SWD  SIOW  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, MSW, Expl., Cathodic, etc)

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

Operator:    

Well Name: JAN 29 1999

Comp. Date     FROM OPERATOR

Deepening  Re-perf.  Conv. to Inj/SWD  
 Plug Back  PSTD  
 Commingled  Docket No.      
 Dual Completion  Docket No.      
 Other (SWD or Inj?)  Docket No.    

8/5/97 8/7/97 9/10/97

Spud Date Date Reached TD Completion Date

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

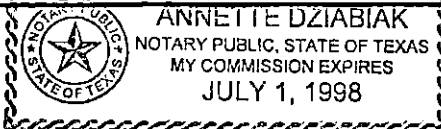
Signature Melinda Mayse

Title Regulatory Coordinator Date 10/17/97

Subscribed and sworn to before me this 17<sup>th</sup> day of October, 19 97.

Notary Public Annette Dziabiak

Date Commission Expires 7-1-98



E.C.C. OFFICE USE ONLY  
F  Letter of Confidentiality Attached  
C  Wireline Log Received  
C  Geologist Report Received  
Distribution  
 KCC  SWD/Rep  NSPA  
 KGS  Plug  Other (Specify)

COMPLETION

SIDE TWO

Operator Name American Exploration Company Lease Name HCU Well # 36-11B

Sec. 36 Twp. 21S Rge. 41  East  West County Hamilton

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken  Yes  No (Attach Additional Sheets.)

Samples Sent to Geological Survey  Yes  No

Cores Taken  Yes  No

Electric Log Run  Yes  No (Submit Copy.)

List All E.Logs Run:  
 Compensated Neutron/Compensated Photo-Density  
 Array Induction Shallow Focused Electric

Log Formation (Top), Depth and Datum  Sample Name Top Datum

See Attachments

**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#	225	Class C	155	2%CC, 1/4# flake
Production	7 7/8	4 1/2	9.5#	3000	Class C	310	3%D79, 2%CC, 2%D16, 1/4# flake
					Class C	150	2% CC, 1/4# flake

**ADDITIONAL CEMENTING/SQUEEZE RECORD**

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

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
2	28 <del>24</del> <sup>45</sup> -2870	2000 gals 15% HCl	2840
2	2822-2831	Frac w/14,300 gal 65 Quality N2 Foam & 30,000# 12/20 SD	

**TUBING RECORD**

Size	Set At	Packer At	Liner Run
2 3/8"	2840	2840	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First, Resumed Production, SWD or Inj. 9/22/97 Producing Method  Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	0	230	200		

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

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

Production Interval: 2822-31  
2845-70

ORIGINAL

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RECEIVED  
HAMILTON COUNTY CLERK  
1997 OCT 22 D 1:08

DRILLERS LOG

AMERICAN EXPLORATION COMPANY  
HCU 36 -11B  
SECTION 36-T21S-R41W  
HAMILTON COUNTY, KANSAS

RELEASED

15-075-20647.0000

COMMENCED: 08-05-97  
COMPLETED: 08-08-97

JAN 29 1999

SURFACE CASING: 228' OF 8 5/8" CMTD  
W/155 SKS CLASS C + 2% CC +  
1/4# FLOCELE.

FROM CONFIDENTIAL

FORMATION

DEPTH

SURFACE HOLE

0 - 228

CLAY & RED BED

228 - 1162

RED BED

1162 - 2637

CHASE

2637 - 3007 RTD

NO  
OCT 20,  
CONFIDENTIAL

I DO HEREBY CERTIFY THAT THE FOREGOING STATEMENTS ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

CHEYENNE DRILLING, INC.

WRAY VALENTINE

STATE OF KANSAS : ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 11TH DAY OF AUGUST, 1997.

NOTARY PUBLIC  
JOLENE K. RUSSELL  
State of Kansas  
My Appt. Exp. 8-13-99

JOLENE K. RUSSELL

  
NOTARY PUBLIC

# ORIGINAL CONFIDENTIAL

## Cementing Service Report

**Schlumberger**  
Dowell

15-075-20647-0000

Customer: AMERICAN EXPLORATION COMPANY  
Job Number: 20012705

Well: HCU #36 A-B <sup>11-B</sup>		Location (legal):		Dowell Location: Ulysses, KS		Service Date: 8/5/97			
Field: Bradshaw		Formation Name/Type: Shale		Deviation: 0		Blt Size: 12.3 in			
County: Hamilton		State/Province: KS		Well MD: 228 ft		Well TVD: 228 ft			
Rig Name:		Drilled For: Gas		Service Via: Land		Casing/Liner:			
Water Depth:		Well Class: 201		Well Type: Workover		Perforations/Open Hole:			
Drilling Fluid Type: Bentonite		Max. Density: 9.2 lb/gal		Plastic Viscosity: 33 cp		Tubing/Drill Pipe:			
Service Line: Cementing		Job Type: Cem Surface Casing		Max. Allowed Tubing Pressure: 750 psi		Max. Allowed Ann. Pressure: 0 psi			
WellHead Connection: Single cement head		Wellhead Connection:		Top, ft: 0		Bottom, ft: 0			
Service Instructions: Safely deliver & perform Surface Cement Job with materials & equipment listed below. Per clients instructions  <b>15-075-20647</b>		Wellhead Connection: Single cement head		spf: 0		No. of Shots: 0			
		Wellhead Connection: Single cement head		Total Interval: 0 ft		Diameter: 0 in			
		Wellhead Connection: Single cement head		Treat Down: Casing		Displacement: 12.4 bbl		Packer Type: None	
		Wellhead Connection: Single cement head		Tubing Vol.: 0 bbl		Casing Vol.: 15.1 bbl		Annular Vol.: 16.8 bbl	
		Wellhead Connection: Single cement head		Packer Depth: 0 ft		OpenHole Vol: 0 bbl		Casing Tools:	
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Volume Circulated prior to Cementing <input type="checkbox"/>		Shoe Type: Guide		Squeeze Job:			
Lift Pressure: 100 psi		Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth: 238 ft			
No. Centralizers: 2		Top Plugs: 1		Bottom Plugs: 0		Stage Tool Type:			
Cement Head Type: Single		Stage Tool Depth: 0 ft		Tail Pipe Size: 0 in		Tool Depth: 0 ft			
Job Scheduled For:		Arrived on Location: 8/5/97 13:00		Leave Location: 8/5/97 16:30		Collar Type: Auto-Fill			
						Collar Depth: 195 ft			
						Sqz Total Vol: 0 bbl			

Time	CumVol	Density	Pressure U1	Reset Volume	TotFlowrate	Message	
24 hr clock	bbl	ppg	psi	bbl	bpm		
15:05	0	0	0	0	0	0	0
15:05	0	0	0	0	0	0	0
15:06	233E-5	8.318	-1077E-11	233E-5	.1398	0	0
15:06	7544E-5	8.318	-1077E-11	7544E-5	.1448	0	0
15:07	.1482	8.318	-1077E-11	.1482	.1421	0	0
15:07	.2207	8.313	-1077E-11	.2207	.1437	0	0
15:08	.2928	8.316	-1077E-11	.2928	.1443	0	0
15:08	.3655	8.313	-1077E-11	.3655	.1448	0	0
15:09	.4381	8.314	2408E-5	.4381	.1455	0	0
15:09	.5108	8.315	1375E-5	.5108	.1448	0	0
15:10	.5868	8.317	.9464	.5868	.1471	0	0
15:10	.6594	8.313	.1283	.6594	.1352	0	0
15:11	.7319	8.316	3.537	.7319	.1381	0	0
15:11	.8058	8.317	3.585	.8058	.1424	0	0
15:12	.8805	8.315	2.893	.8805	.1469	0	0
15:12	.954	8.315	4.512	.954	.1344	0	0
15:13	1.109	8.316	17.17	1.109	.6858	0	0
15:13	1.292	8.316	278.4	1.292	4059E-5	0	0
15:14	1.313	8.313	1072	1.313	1154E-5	0	0
15:14	1.319	8.311	1647	1.319	1641E-7	0	0
15:15	1.333	8.31	24.46	1.333	8935E-5	0	0
15:15	1.34	8.31	9.18	1.34	4771E-8	0	0

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JAN 29 1999  
FROM CONFIDENTIAL

Well			Field			Service Date	Customer	Job Number
HCU ##36 A-B			Bradshaw			8/5/97	RICAN EXPLORATION CO	20012705
Time	CumVol	Density	Pressure U/I	Reset Volume	TotFlowrate	Message		
24 hr clock	bbbl	ppg	psi	bbbl	bpm			
15:16	1.344	8.315	9.084	1.344	5763E-5	0	0	
15:16	1.794	8.315	44.64	1.794	2.881	0	0	
15:17	4.266	8.288	108.3	4.266	5.588	0	0	
15:17	7.089	8.299	112.7	7.089	5.583	0	0	
15:17	0	0	0	0	0	0	0	Start Pumping Water
15:18	9.889	8.303	114.7	9.889	5.567	0	0	
15:18	11.91	8.251	59.07	11.91	3.72	0	0	
15:19	13.77	8.272	63.94	13.77	3.7	0	0	
15:19	15.63	8.264	63.2	15.63	3.703	0	0	
15:20	17.5	8.272	61.56	17.5	3.691	0	0	
15:20	19.36	8.272	59.65	19.36	3.713	0	0	
15:21	0	0	0	0	0	0	0	[Reset Volume]=0 bbl
15:21	21.24	10.92	59.55	.3113	3.705	0	0	
15:21	0	0	0	0	0	0	0	Start Cement Slurry
15:21	23.09	13.71	83.7	2.17	3.695	0	0	
15:22	24.95	15.36	102	4.022	3.678	0	0	
15:22	26.8	15.14	102.8	5.874	3.667	0	0	
15:23	28.64	14.63	97.17	7.718	3.682	0	0	
15:23	30.5	14.45	87.48	9.573	3.689	0	0	
15:24	32.35	14.61	91.73	11.43	3.677	0	0	
15:24	34.2	14.68	91.86	13.28	3.686	0	0	
15:25	36.06	14.63	91.98	15.14	3.671	0	0	
15:25	37.91	14.5	91.74	16.98	3.679	0	0	
15:26	39.76	14.65	92.14	18.83	3.672	0	0	
15:26	41.61	14.65	94.91	20.68	3.672	0	0	
15:27	43.52	14.5	93.54	22.59	3.681	0	0	
15:27	45.37	14.44	91.76	24.45	3.666	0	0	
15:28	47.22	14.4	96.02	26.29	3.677	0	0	
15:28	49.07	14.48	96.31	28.14	3.673	0	0	
15:29	50.91	15.74	111.6	29.99	3.649	0	0	
15:29	52.75	14.84	109.5	31.82	3.66	0	0	
15:30	0	0	0	0	0	0	0	Drop Top Plug
15:30	54.6	15.16	98.39	33.68	3.658	0	0	
15:30	56.44	14.2	103.4	35.52	3.686	0	0	
15:31	56.96	13.82	3.992	36.04	5148E-6	0	0	
15:31	56.96	13.89	4.822	36.04	4005E-7	0	0	
15:32	56.96	13.89	4.739	36.04	1434E-10	0	0	
15:32	56.96	13.89	4.587	36.04	5133E-14	0	0	
15:33	56.96	13.88	4.611	36.04	1838E-17	0	0	
15:33	56.96	13.91	4.587	36.04	658E-20	0	0	
15:34	56.96	13.92	4.587	36.04	2356E-24	0	0	
15:34	56.96	13.93	4.587	36.04	8434E-28	0	0	
15:35	0	0	0	0	0	0	0	Start Displacement
15:35	56.96	13.93	4.587	36.04	3019E-31	0	0	
15:35	56.96	13.93	4.587	36.04	1081E-34	0	0	
15:36	57.26	12.26	90.76	36.34	1.696	0	0	
15:36	57.43	12.13	4.714	36.51	1596E-6	0	0	
15:37	57.43	12.17	2.937	36.51	5715E-10	0	0	
15:37	57.43	12.18	4.266	36.51	2046E-13	0	0	
15:38	57.43	12.18	3.939	36.51	7326E-17	0	0	
15:38	57.77	12.01	36.05	36.85	2.091	0	0	
15:39	59.41	9.904	83.71	38.49	3.941	0	0	
15:39	61.4	8.742	74.5	40.48	3.958	0	0	

ORIGINAL

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[Reset Volume]=0 bbl

Start Cement Slurry

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RELEASED

JAN 29 1999

FROM CONFIDENTIAL

Well		Field				Service Date	Customer	Job Number
HCU ##36 A-B		Bradshaw				8/5/97	RICAN EXPLORATION CON	20012705
Time	CumVol	Density	Pressure U1	Reset Volume	Total Flowrate	Message		
24 hr clock	bbl	ppg	psi	bbl	bpm			
15:40	0	0	0	0	0	0	Bump Top Plug	
15:40	63.39	8.363	82.27	42.46	3.936	0		
15:40	65.37	8.204	89.12	44.44	3.915	0		
15:41	66.6	8.362	57.67	45.68	1.953	0		
15:41	67.57	8.338	60.99	46.65	1.916	0		
15:42	68.52	8.333	64.22	47.6	1.883	0		
15:42	69.47	8.321	68.73	48.54	1.869	0		
15:43	70	8.325	752.7	49.07	2437E-5	0		
15:43	70	8.333	731.4	49.08	8727E-9	0		
15:44	70	8.333	128.7	49.08	3124E-12	0		
15:44	70	8.326	4274E-5	49.08	1119E-15	0		
15:45	70	8.326	9005E-5	49.08	4005E-19	0		
15:45	70	8.326	2542E-5	49.08	1042E-8	0		
15:46	70	8.326	4646E-7	49.08	373E-11	0		
15:46	70	8.326	.6523	49.08	1336E-15	0		
15:47	70.06	8.327	3.499	49.14	.7495	0		
15:47	70.28	8.326	4.023	49.36	.7876	0		
15:48	70.69	8.326	221.6	49.77	.3282	0		
15:48	70.73	8.328	504.9	49.8	656E-6	0		
15:49	70.73	8.327	27.56	49.81	4142E-6	0		
15:49	70.73	8.327	9864E-6	49.81	6224E-7	0		
15:50	70.73	8.326	1848E-5	49.81	2216E-6	0		
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	4	37	0	0	0	
Treating Pressure Summary, psi				Breakdown Fluid				
Maximum	Final	Average	Bump Plug to Breakdown	Type	Volume	Density		
100	100	100	0		0 bbl	0 lb/gal		
Avg. N2 Percent	Designed Slurry Volume		Displacement	<input checked="" type="checkbox"/> Cement Circulated to Surface? Volume <input type="checkbox"/> Washed Thru Perfs To		bbl		
0 %	0 bbl		12 bbl	To 0 ft				
Customer or Authorized Representative			Dowell Supervisor			<input type="checkbox"/> Circulation Lost <input checked="" type="checkbox"/> Job Completed		
Hawk Demoss			BRAWLEY DAVID					

HCU  
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JAN 29 1999  
FROM CONFIDENTIAL



# Cementing Service Report ORIGINAL

Customer: **AMERICAN EXPLORATION COMPANY** Job Number: **20013058**

Well: <b>HCU 36-11B</b>		Location (legal): <b>Sec</b>		Dowell Location: <b>Ulysses, KS</b>		Service Date: <b>8/6/97</b>			
Field: <b>Bradshaw</b>		Formation Name/Type: <b>Dolomite</b>		Deviation: <b>0 °</b>		Well MD: <b>3,000 ft</b>			
County: <b>Hamilton</b>		State/Province: <b>KS</b>		BHP: <b>0 psi</b>		Well TVD: <b>3,000 ft</b>			
Rig Name: <b>CHEYENNE 8</b>		Drilled For: <b>Gas</b>		Service Via: <b>Land</b>		Casing/Liner			
Water Depth:		Well Class: <b>101</b>		Well Type: <b>Development</b>		Depth, ft: <b>3000</b>			
Drilling Fluid Type: <b>Bentonite</b>		Max. Density: <b>9.3 lb/gal</b>		Plastic Viscosity: <b>0 cp</b>		Size, in: <b>4.5</b>			
Service Line: <b>Cementing</b>		Job Type: <b>Cem Prod Casing</b>		BHT: <b>0 °F</b>		Weight, lb/ft: <b>9.5</b>			
Max. Allowed Tubing Pressure: <b>670 psi</b>		Max. Allowed Ann. Pressure: <b>0 psi</b>		Wellhead Connection: <b>Single cement head</b>		Grade: <b>0</b>			
Service Instructions cement and equipment to safely cement 4 1/2 longstring as per customer's request  <b>15-075-20647.0000</b>		Perforations/Open Hole		Thread: <b>0</b>		Thread: <b>0</b>			
		Top, ft: <b>0</b>		Bottom, ft: <b>0</b>		spf: <b>0</b>			
		No. of Shots: <b>0</b>		Total Interval: <b>0 ft</b>		Diameter: <b>0</b>		in: <b>0</b>	
		Treat Down Casing: <b>0</b>		Displacement: <b>47.7 bbl</b>		Packer Type: <b>0</b>		Packer Depth: <b>0 ft</b>	
		Tubing Vol.: <b>0 bbl</b>		Casing Vol.: <b>47.9 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 checked="" type="checkbox"/>		Casing Tools		Squeeze Job			
Lift Pressure: <b>670 psi</b>		Pipe Rotated: <input type="checkbox"/>		Pipe Reciprocated: <input type="checkbox"/>		Shoe Type: <b>Guide</b>			
No. Centralizers: <b>6</b>		Top Plugs: <b>1</b>		Bottom Plugs: <b>0</b>		Shoe Depth: <b>3000 ft</b>			
Cement Head Type: <b>Single</b>		Job Scheduled For: <b>8/8/97 2:00</b>		Arrived on Location: <b>8/8/97 1:45</b>		Leave Location: <b>8/9/97 11:00</b>			
Stage Tool Type: <b>0 ft</b>		Stage Tool Depth: <b>0 ft</b>		Collar Type: <b>Auto-Fill</b>		Collar Depth: <b>2963 ft</b>			
Tool Depth: <b>0 ft</b>		Tail Pipe Size: <b>0 in</b>		Tail Pipe Depth: <b>0 ft</b>		Sgz Total Vol.: <b>0 bbl</b>			
Time		CumVol		Density		Pressure U1			
24-hr clock		bbl		ppg		psi			
						TotFlowrate			
						bpm			
						Message			
8:31		0		0		0			
8:31		0		8.272		4.569			
8:31		0		0		0			
8:32		.0147		8.31		676.3			
8:32		0		0		0			
8:33		.0246		8.275		2252			
8:34		2461E-5		8.236		.8559			
8:34		0		0		0			
8:35		1.477		8.268		137.9			
8:36		5.412		8.258		145.8			
8:37		9.249		8.234		151.4			
8:37		0		0		0			
8:38		0		0		0			
8:38		0		0		0			
8:38		2.429		8.242		164.8			
8:39		6.266		8.17		242.5			
8:40		0		0		0			
8:40		10.1		11.45		243			
8:40		0		0		0			
8:40		0		0		0			
8:41		3.324		10.72		192.2			

Well		Field			Service Date	Customer	Job Number
HCU #36-11B		Bradshaw			8/6/97	RICAN EXPLORATION CON	20013058
Time	CumVol	Density	Pressure U1	TotFlowmb	ORIGINAL		Message
24 hr clock	bbbl	ppg	psl	bpm			
8:42	7.161	11.34	174	3.82	0	0	0
8:43	11	11.07	142	3.828	0	0	0
8:44	14.84	10.84	119.1	3.828	0	0	0
8:45	18.67	11.29	95.58	3.822	0	0	0
8:46	22.58	11.21	83.11	3.818	0	0	0
8:47	26.42	11.03	67.52	3.819	0	0	0
8:48	30.25	11.09	68.69	3.828	0	0	0
8:49	34.09	10.73	64.73	3.828	0	0	0
8:50	37.93	11.17	66.02	3.828	0	0	0
8:51	41.83	11.04	64.57	3.828	0	0	0
8:52	45.67	11.1	63.21	3.82	0	0	0
8:53	49.51	11.09	63.27	3.829	0	0	0
8:54	53.34	11.02	63.6	3.829	0	0	0
8:55	57.18	10.92	61.55	3.829	0	0	0
8:56	61.02	10.83	59.77	3.829	0	0	0
8:57	0	0	0	0	0	0	0
8:57	66.36	10.55	122.7	5.718	0	0	0
8:58	71.78	11.29	96.47	4.934	0	0	0
8:59	76.72	11.24	92.5	4.928	0	0	0
9:00	82.17	11.17	132.6	5.711	0	0	0
9:01	87.9	11.42	141.3	5.718	0	0	0
9:02	93.63	11.02	129.4	5.712	0	0	0
9:03	99.35	11.11	133.5	5.711	0	0	0
9:04	105.1	11.14	135.8	5.71	0	0	0
9:05	110.8	11.17	132.1	5.718	0	0	0
9:06	116.5	11.13	128.1	5.711	0	0	0
9:07	122.3	10.86	122.8	5.711	0	0	0
9:08	128.1	11.04	127.3	5.711	0	0	0
9:09	133.8	11.08	130	5.718	0	0	0
9:10	139.6	11.22	128.9	5.711	0	0	0
9:11	145.3	11.1	129.7	5.708	0	0	0
9:12	151.2	11.25	132.4	5.72	0	0	0
9:13	157	11.15	125.9	5.717	0	0	0
9:14	162.8	11.25	126.8	5.711	0	0	0
9:15	168.5	10.8	117.8	5.71	0	0	0
9:16	0	0	0	0	0	0	0
9:16	0	0	0	0	0	0	0
9:16	0	0	0	0	0	0	0
9:16	.9544	11.35	115.4	5.71	0	0	0
9:17	5.868	12.13	46.4	2.504	0	0	0
9:18	9.465	14.42	132.6	3.912	0	0	0
9:19	13.38	15.25	157.4	3.914	0	0	0
9:20	17.3	15.01	152	3.911	0	0	0
9:21	21.22	14.74	133.8	3.905	0	0	0
9:22	25.14	15.09	137.8	3.912	0	0	0
9:23	29.14	15.13	137.4	3.911	0	0	0
9:24	33.06	15.28	117.6	3.911	0	0	0
9:25	36.66	14.01	11.27	.7416	0	0	0
9:26	0	0	0	0	0	0	0
9:26	0	0	0	0	0	0	0
9:26	0	0	0	0	0	0	0
9:31	2417E-7	7.309	-5.372	7116E-20	0	0	0
9:31	0	0	0	0	0	0	0

CONFIDENTIAL

Increase Pump Rate

KCC

OCT 20

CONFIDENTIAL

RELEASED

JAN 29 1999

FROM CONFIDENTIAL

Shutdown

Reset Volume

[CumVol]=36.7 bbl

Start Displacement



Well		Field			Service Date	Customer	Job Number
HCU #36-11B		Bradshaw			8/6/97	RICAN EXPLORATION CON	20013058
Time	CumVol	Density	Pressure Uf	Yofflowrate	Message		
24 hr clock	bbbl	ppg	psal	bpm	ORIGINAL		
9:32	3.703	8.21	60.76	5.711	0	0	0
9:33	9.432	8.065	62.88	5.718	0	0	0
9:34	15.16	8.106	51.08	5.722	0	0	0
9:35	20.89	8.201	57.09	5.718	0	0	0
9:36	26.55	7.986	184	5.592	0	0	0
9:37	32.15	7.904	338.6	5.59	0	0	0
9:38	0	0	0	0	0	0	0
9:38	0	0	0	0	0	0	0
9:38	37.76	7.9	487.8	5.588	0	0	0
9:39	0	0	0	0	0	0	0
9:39	41.94	7.71	473.4	2.069	0	0	0
9:40	44.04	7.431	534.9	2.062	0	0	0
9:41	46.11	7.383	592.9	2.061	0	0	0
9:42	48.17	7.21	670.4	2.06	0	0	0
9:42	0	0	0	0	0	0	0
9:43	48.88	7.716	696.6	3108E-8	0	0	0
9:44	49.22	5.186	732.1	4618E-5	0	0	0
9:45	0	0	0	0	0	0	0
9:45	0	0	0	0	0	0	0
9:45	49.22	3.901	1.755	4544E-12	0	0	0
9:46	49.22	3.484	4.566	5824E-19	0	0	0
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	5.6	212	0	20	0
Treating Pressure Summary, psi				Breakdown Fluid			
Maximum	Final	Average	Bump Plug to Breakdown	Type	Volume	Density	
0	0	0	0		0 bbl	0 lb/gal	
Avg. N2 Percent	Designed Slurry Volume	Displacement		<input checked="" type="checkbox"/> Cement Circulated to Surface? Volume 17 SK 3 bbl 10 B812 <input type="checkbox"/> Washed Thru Perfs To 0 ft			
0 %	0 bbl	49.7 bbl					
Customer or Authorized Representative			Dowell Supervisor			<input type="checkbox"/> Circulation Lost <input checked="" type="checkbox"/> Job Completed	
Hawk Demoss			Charley King				

RELEASED

HCU

JAN 29 1999

OCT 20

FROM CONFIDENTIAL

CONFIDENTIAL