FILE NOTATIONS

Entered in NID File .....✓.....
Location Map Pinned .....✓.....
Card Indexed .....✓.....

Checked by Chief K.W.B.
Approval Letter 11-14-74
Disapproval Letter .....

COMPLETION DATA:

Date Well Completed .....

Location Inspected .....

OW..... WW..... TA.....
GW..... OS..... PA.✓...

Bond released
State or Fee Land .....

LOGS FILED

Driller's Log...✓.....
Electric Logs (No.) ..✓.....
E..... I..... Dual I Lat..... GR-N..... Micro.....
BHC Sonic GR..... Lat..... MEL..... Sonic.....
CBLog..... CCLog..... Others.....

JOHNSTON

Schlumberger

technical report

COMPANY ATLANTIC-RICHFIELD COMPANY WELL CART HOLLOW # 1 TEST NO. 1 COUNTY DUCHESNE STATE UTAH

F.R. #09120 C

JOHNSTON

PRESSURE LOG*

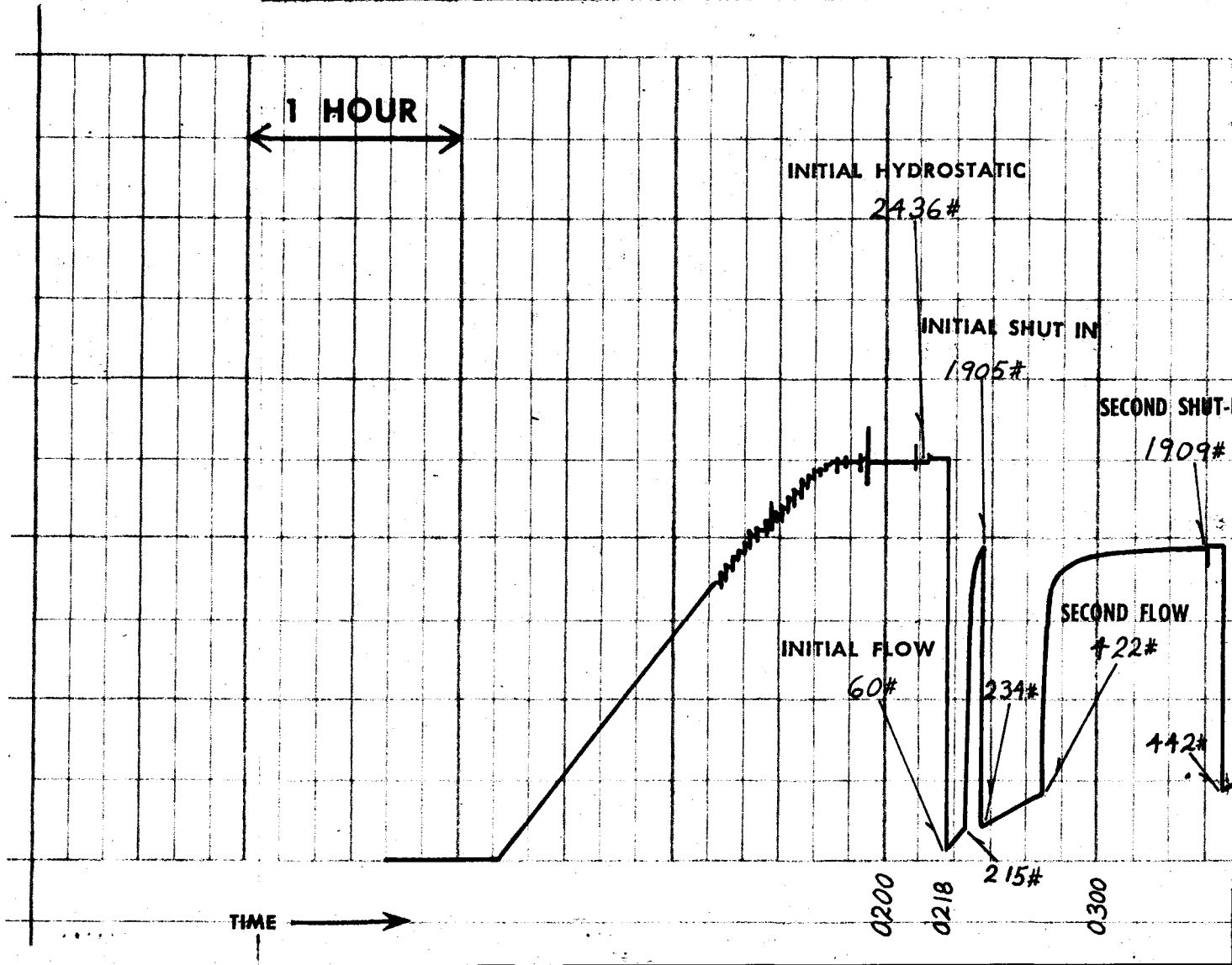
Field Report No. 09120 C

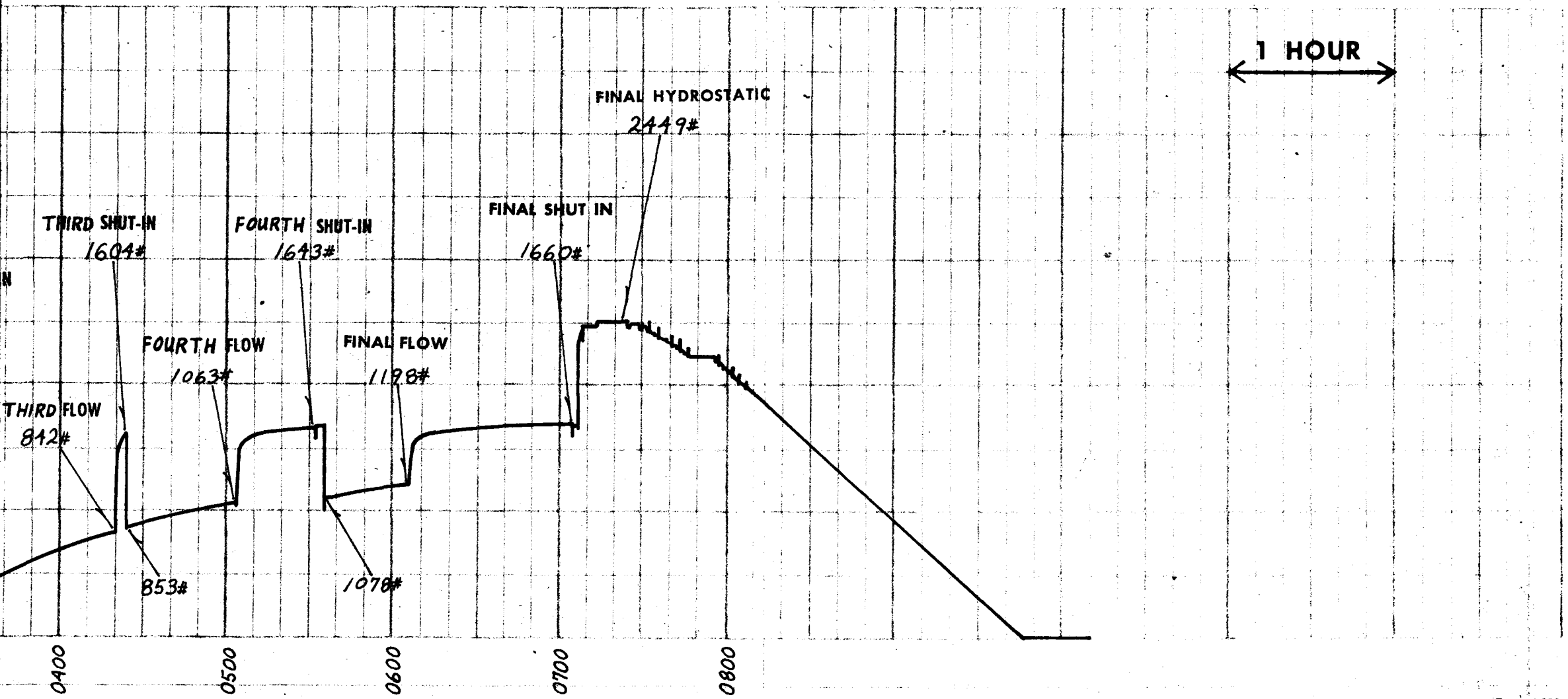
Instrument:
Number J-013

Capacity 4700 p.s.i.

Depth 5100 ft.

*a continuous tracing of the original chart




1 HOUR
FINAL HYDROSTATIC
2449#
FINAL SHUT IN
1660#
THIRD SHUT-IN
1604#
FOURTH SHUT-IN
1643#
FOURTH FLOW
1063#
FINAL FLOW
1198#
THIRD FLOW
842#
853#
1078#
0400
0500
0600
0700
0800

Form J-228a

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SURFACE INFORMATION

Description (Rate of Flow)	Time	Pressure (P.S.I.G.)	Surface Choke
Opened Tool	0218	-	-
BLOW, 2" IN WATER SLOWLY			
INCREASING TO A 5" BLOW			
IN WATER AT END OF PERIOD			
CLOSED FOR INITIAL SHUT-IN	0223	-	-
RE-OPENED TOOL	0228	-	-
CLOSED FOR SECOND SHUT-IN	0244	-	-
FINISHED SHUT-IN	0329	-	-
RE-OPENED TOOL	0335	-	-
BLOW, 1" IN WATER			
INCREASING			
BLOW OFF BOTTOM OF BUCKET	0342	-	-
CLOSED FOR THIRD SHUT-IN	0420	-	-
RE-OPENED TOOL	0425	-	-
CLOSED FOR FOURTH SHUT-IN	0502	-	-
FINISHED SHUT-IN	0532	-	-
RE-OPENED TOOL	0537	-	-
CLOSED FOR FINAL SHUT-IN	0607	-	-
FINISHED SHUT-IN	0707	-	-
PULLED PACKER LOOSE	0714	-	-

Cushion Type	Amount	Pressure	Bottom Choke
	-		Size 3/4"

MUD DATA

Mud Type: GEL - CHEMICAL Wt.: 9.0
Viscosity: 34 Water Loss: 8 C.C.
Resist. of Mud: 2.2 @ 46 °F; of Filtrate: 2.6 @ 46 °F
Chloride Content: 350 PPM

EQUIPMENT & HOLE DATA

Type Test: M.F.E. OPEN HOLE
Formation Tested: GREEN RIVER
Elevation: 7784 Ft.
Net Productive Interval: - Ft.
Estimated Porosity: - %
All Depths Measured From: KELLY BUSHING
Total Depth: 5182 Ft.
Main Hole/Casing Size: 7 7/8"
Rat Hole/Liner Size: -
Drill Collar Length: 409' I.D. -
Drill Pipe Length: 4652' I.D. -
Packer Depth(s): 5091' & 5095' Ft.

MULTI-FLOW EVALUATOR FLUID SAMPLE DATA

Sampler Pressure: 150 P.S.I.G. at Surface
Recovery: Cu. Ft. Gas: .15
cc. Oil: -
cc. Water: 2160
cc. Mud: -
Tot. Liquid cc.: 2160
Gravity: - °API @ - °F.
Gas/Oil Ratio: - cu. ft./bbl.

	RESISTIVITY	CHLORIDE CONTENT
Recovery Water	.7 @ 52 °F.	3500 ppm
Recovery Mud	- @ - °F.	
Recovery Mud Filtrate	- @ - °F.	- ppm
Mud Pit Sample	2.2 @ 46 °F.	
Mud Pit Sample Filtrate	2.6 @ 46 °F.	350 ppm

RECOVERY DESCRIPTION	FEET	BARRELS	% OIL	% WATER	% OTHERS	API GRAVITY	RESISTIVITY	CHL. PPM
WATER CUT DRILLING MUD	540	-				@ °F.	1.85@ 49 °F.	500
MUD CUT WATER	270	-				@ °F.	.9 @ 50 °F.	1800
WATER, SLIGHTLY GAS CUT	2170	-				@ °F.	.7 @ 52 °F.	3500
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	

Remarks:

Address: 1860 LINCOLN STREET, SUITE 501; DENVER, COLORADO 80202; ATTN: MR. MORSE BROWN

Company: ATLANTIC-RICHFIELD COMPANY Field: WHITE ROCK
Well: CART HOLLOW # 1 Location: SEC. 20-2N-1W
Test Interval: 5095' TO 5182' Test #: 1 Date: 1-16-75

County: DUCHESNE State: UTAH Field Report No.: 09120 C
Technician: TAYLOR (VERNAL) Test Approved By: MR. M. A. CONFER No. Reports Requested: 5

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PRESSURE DATA

Instrument No.		J-451
Capacity (P.S.I.G.)		4700
Instrument Depth		5070'
Instrument Opening		INSIDE
Pressure Gradient P.S.I./Ft.		
Well Temperature °F.		102
Initial Hydrostatic Mud	A	2427
Initial Shut-in	B	* 1904
Initial Flow	C	45
SECOND FLOW	C-3	412
SECOND SHUT-IN	B-1	* 1906
Final Flow	D	1184
Final Shut-in	E	* 1655
Final Hydrostatic Mud	F	2430
THIRD FLOW	C-5	837
THIRD SHUT-IN	B-2	* 1600
FOURTH FLOW	C-7	1050
FOURTH SHUT-IN	B-3	* 1639

Field Report No. 09120 C

TIME DATA

	Time Given	Time Computed
Initial Shut-in	5 Mins.	4 Mins.
Initial Flow	5 Mins.	6 Mins.
SECOND FLOW	16 Mins.	17 Mins.
SECOND SHUT-IN	45 Mins.	45 Mins.
Final Flow	30 Mins.	31 Mins.
Final Shut-in	60 Mins.	58 Mins.
THIRD FLOW	45 MINS.	45 MINS.
THIRD SHUT-IN	5 MINS.	4 MINS.
FOURTH FLOW	37 MINS.	40 MINS.
FOURTH SHUT-IN	30 MINS.	28 MINS.

**Shut in pressure did not reach static reservoir pressure.*

Clock Travel 0.02088 inches per min.

PRESSURE INCREMENTS

SECOND SHUT-IN			FOURTH SHUT-IN			FINAL SHUT-IN		
Point Minutes	Pressure	$\frac{T+\Delta t}{\Delta t}$	Point Minutes	Pressure	$\frac{T+\Delta t}{\Delta t}$	Point Minutes	Pressure	$\frac{T+\Delta t}{\Delta t}$
C-3 0	412		C-7 0	1050		D 0	1184	
3	1713		3	1556		5	1566	
6	1789		6	1580		10	1590	
9	1825		9	1596		15	1604	
12	1847		12	1607		20	1612	
15	1862		15	1616		25	1620	
18	1871		18	1623		30	1627	
21	1879		21	1628		35	1632	
24	1884		24	1633		40	1639	
27	1889		27	1638		45	1643	
30	1893		B-3 28	1639		50	1648	
33	1896					55	1652	
36	1899		EXTRA POINTS			E 58	1655	
39	1902		C-1	205				
42	1904		C-2	222				
B-1 45	1906		C-4	433				
			C-6	845				
			C-8	1065				

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PRESSURE DATA

Instrument No.	J-451			
Capacity (P.S.I.G.)				
Instrument Depth				
Instrument Opening				
Pressure Gradient P.S.I./Ft.				
Well Temperature °F.				
Initial Hydrostatic Mud A				
Initial Shut-in B				
Initial Flow C				
Final Flow D				
Final Shut-in E				
Final Hydrostatic Mud F				

Field Report No. 09120 C

TIME DATA

Time Given	Time Computed
Mins.	Mins.
Mins.	Mins.
Mins.	Mins.
Mins.	Mins.
Mins.	Mins.
Mins.	Mins.

Remarks:

**Shut in pressure did not reach static reservoir pressure.*

Clock Travel _____ inches per min.

PRESSURE INCREMENTS

FLOW PERIODS

Point	Minutes	Pressure	$\frac{T+\Delta t}{\Delta t}$	Point	Minutes	Pressure	$\frac{T+\Delta t}{\Delta t}$	Point	Minutes	Pressure	$\frac{T+\Delta t}{\Delta t}$
INITIAL FLOW				THIRD FLOW				FOURTH FLOW CONTINUED			
C	0	45		C-4	0	433			36	1045	
	3	144			3	459			39	1050	
C-1	6	205			6	493		C-7	40	1050	
					9	524					
					12	556					
SECOND FLOW					15	586		FINAL FLOW			
C-2	0	222			18	613		C-8	0	1065	
	3	256			21	641			3	1075	
	6	293			24	667			6	1090	
	9	330			27	692			9	1104	
	12	365			30	717			12	1117	
	15	400			33	742			15	1129	
C-3	17	412			36	766			18	1142	
					39	790			21	1154	
					42	812			24	1165	
				C-5	45	837			27	1176	
									30	1187	
				FOURTH FLOW				D	31	1184	
				C-6	0	845					
					3	858					
					6	880					
					9	899					
					12	918					
					15	936					
					18	953					
					21	970					
					24	986					
					27	1001					
					30	1016					
					33	1030					
				CONTINUED							

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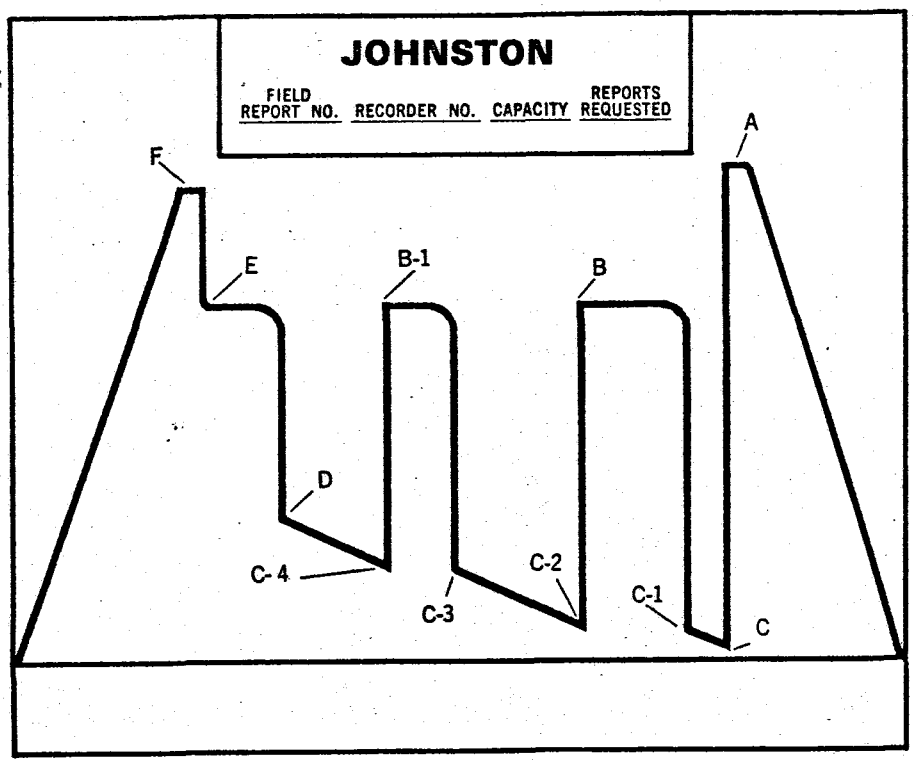
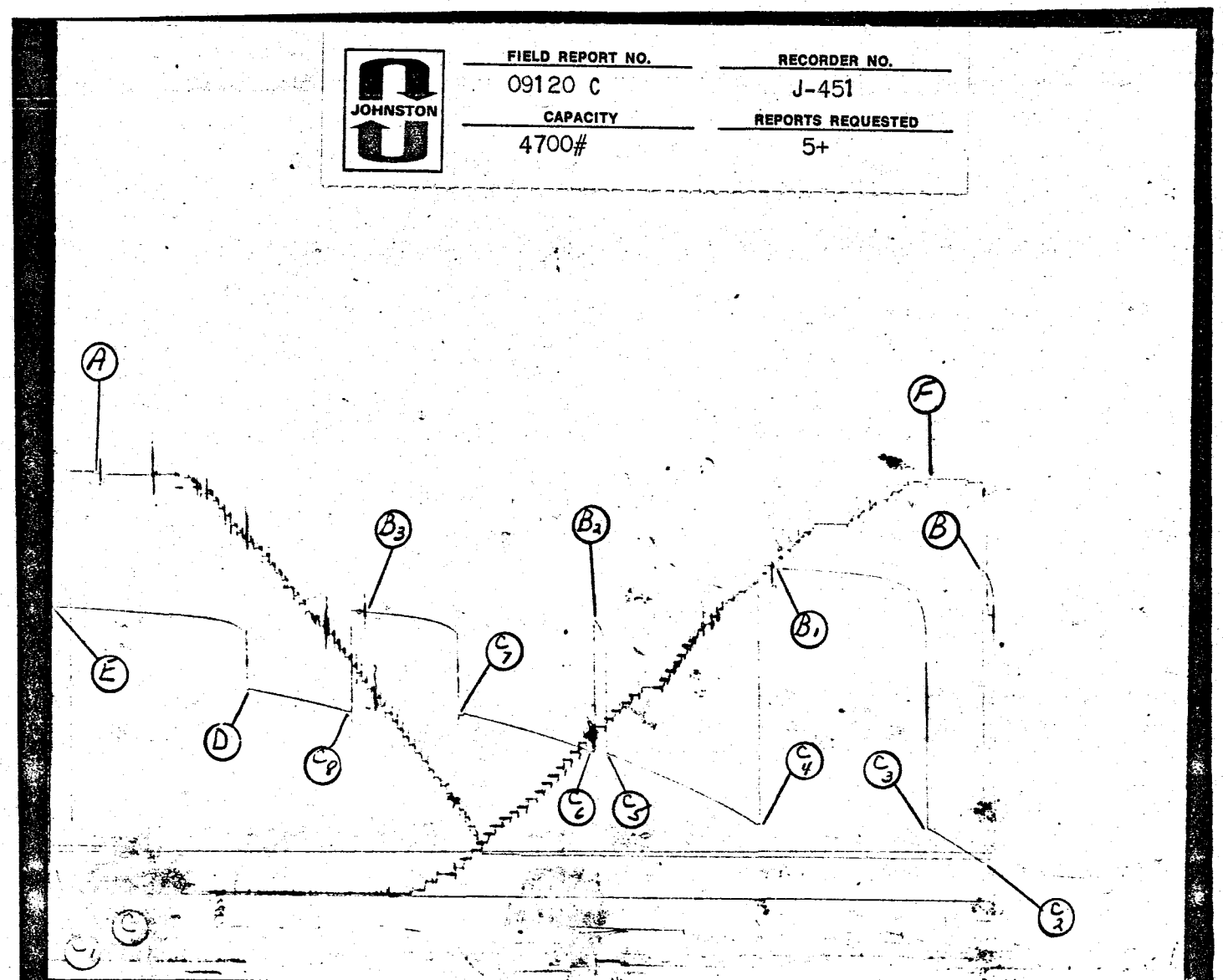
GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



A. Initial Hyd. Mud
B. Initial Shut-in
C. Initial Flow
D. Final Flow
E. Final Shut-in
F. Final Hyd. Mud

The following points are either fluctuating pressures or points indicating other packer settings, (testing different zones).

A-1, A-2, A-3, etc. Initial Hyd. Pressures
B-1, B-2, B-3, etc. Subsequent Shut-in Pressures
C-1, C-2, C-3, etc. Flowing Pressures
D-1, D-2, D-3, etc. Subsequent Final Flow Pressures
E-1, E-2, E-3, etc. Subsequent Final Shut-in Pressures
F-1, F-2, F-3, etc. Final Hyd. Mud Pressures
Z — Special pressure points such as pumping pressure recorded for formation breakdown.



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PRESSURE DATA

Instrument No.		J-013			
Capacity (P.S.I.G.)		4700			Field Report No. 09120 C
Instrument Depth		5100'			
Instrument Opening		OUTSIDE			
Pressure Gradient P.S.I./Ft.					
Well Temperature °F.		102			

			TIME DATA	
			Time Given	Time Computed
Initial Hydrostatic Mud	A	2436		
Initial Shut-in	B	* 1905	5 Mins.	4 Mins.
Initial Flow	C	60	5 Mins.	6 Mins.
SECOND FLOW	C-3	422	16 Mins.	17 Mins.
SECOND SHUT-IN	B-1	* 1909	45 Mins.	45 Mins.
Final Flow	D	1198	30 Mins.	31 Mins.
Final Shut-in	E	* 1660	60 Mins.	58 Mins.
Final Hydrostatic Mud	F	2449		
THIRD FLOW	C-5	842	45 MINS.	45 MINS.
THIRD SHUT-IN	B-2	* 1604	5 MINS.	4 MINS.
FOURTH FLOW	C-7	1063	37 MINS.	40 MINS.
FOURTH SHUT-IN	B-3	* 1643	30 MINS.	28 MINS.

**Shut in pressure did not reach static reservoir pressure.*

Clock Travel 0.02096 inches per min.

PRESSURE INCREMENTS

SECOND SHUT-IN			FOURTH SHUT-IN			FINAL SHUT-IN		
Point Minutes	Pressure	$\frac{T+\Delta t}{\Delta t}$	Point Minutes	Pressure	$\frac{T+\Delta t}{\Delta t}$	Point Minutes	Pressure	$\frac{T+\Delta t}{\Delta t}$
C-3 0	422		C-7 0	1063		D 0	1198	
3	1701		3	1536		5	1570	
6	1785		6	1571		10	1596	
9	1824		9	1591		15	1610	
12	1847		12	1604		20	1620	
15	1861		15	1613		25	1628	
18	1872		18	1622		30	1634	
21	1880		21	1628		35	1640	
24	1887		24	1634		40	1645	
27	1892		27	1640		45	1649	
30	1897		B-3 28	1643		50	1654	
33	1900					55	1658	
36	1903					E 58	1660	
39	1906		EXTRA POINTS					
42	1907		C-1	215				
B-1 45	1909		C-2	234				
			C-4	442				
			C-6	853				
			C-8	1078				

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PRESSURE DATA

Instrument No.	J-013			
Capacity (P.S.I.G.)				Field Report No. 09120 C
Instrument Depth				
Instrument Opening				
Pressure Gradient P.S.I./Ft.				TIME DATA
Well Temperature °F.				
				Time Given / Time Computed
Initial Hydrostatic Mud A				
Initial Shut-in B				Mins. / Mins.
Initial Flow C				Mins. / Mins.
				Mins. / Mins.
				Mins. / Mins.
Final Flow D				Mins. / Mins.
Final Shut-in E				Mins. / Mins.
Final Hydrostatic Mud F				Mins. / Mins.

Remarks:

**Shut in pressure did not reach static reservoir pressure.*

Clock Travel _____ inches per min.

PRESSURE INCREMENTS

FLOW PERIODS

Point Minutes	Pressure	$\frac{T+\Delta t}{\Delta t}$	Point Minutes	Pressure	$\frac{T+\Delta t}{\Delta t}$	Point Minutes	Pressure	$\frac{T+\Delta t}{\Delta t}$
INITIAL FLOW			THIRD FLOW			FOURTH FLOW CONTINUED		
C 0	60		C-4 0	442		36	1046	
3	156		3	469		39	1059	
C-1 6	215		6	503		C-7 40	1063	
			9	536				
			12	566		FINAL FLOW		
SECOND FLOW			15	595		C-8 0	1078	
C-2 0	234		18	624		3	1083	
3	268		21	651		6	1098	
6	304		24	677		9	1113	
9	343		27	703		12	1127	
12	378		30	727		15	1139	
15	412		33	751		18	1152	
C-3 17	422		36	774		21	1164	
			39	796		24	1175	
			42	819		27	1186	
			C-5 45	842		30	1196	
						D 31	1198	
			FOURTH FLOW					
			C-6 0	853				
			3	867				
			6	886				
			9	905				
			12	923				
			15	941				
			18	957				
			21	973				
			24	988				
			27	1003				
			30	1018				
			33	1032				
			CONTINUED					

JOHNSTON

Schlumberger

technical report

COMPANY ATLANTIC-RICHFIELD COMPANY WELL CART HOLLOW # 1 TEST NO. 5 COUNTY DUCHESNE STATE UTAH

F.R. # 09126 C

JOHNSTON

PRESSURE LOG*

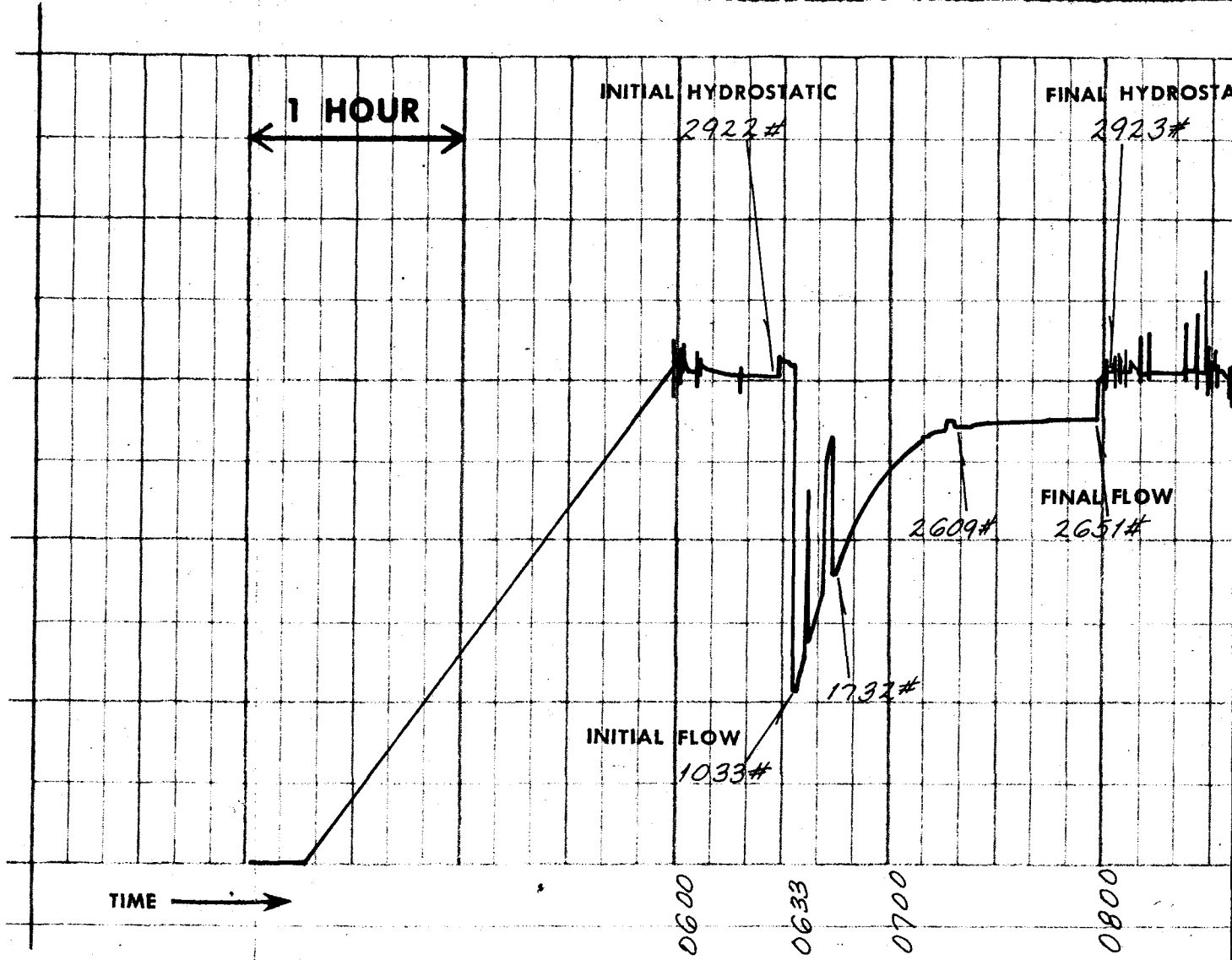
Field Report No. 09126 C

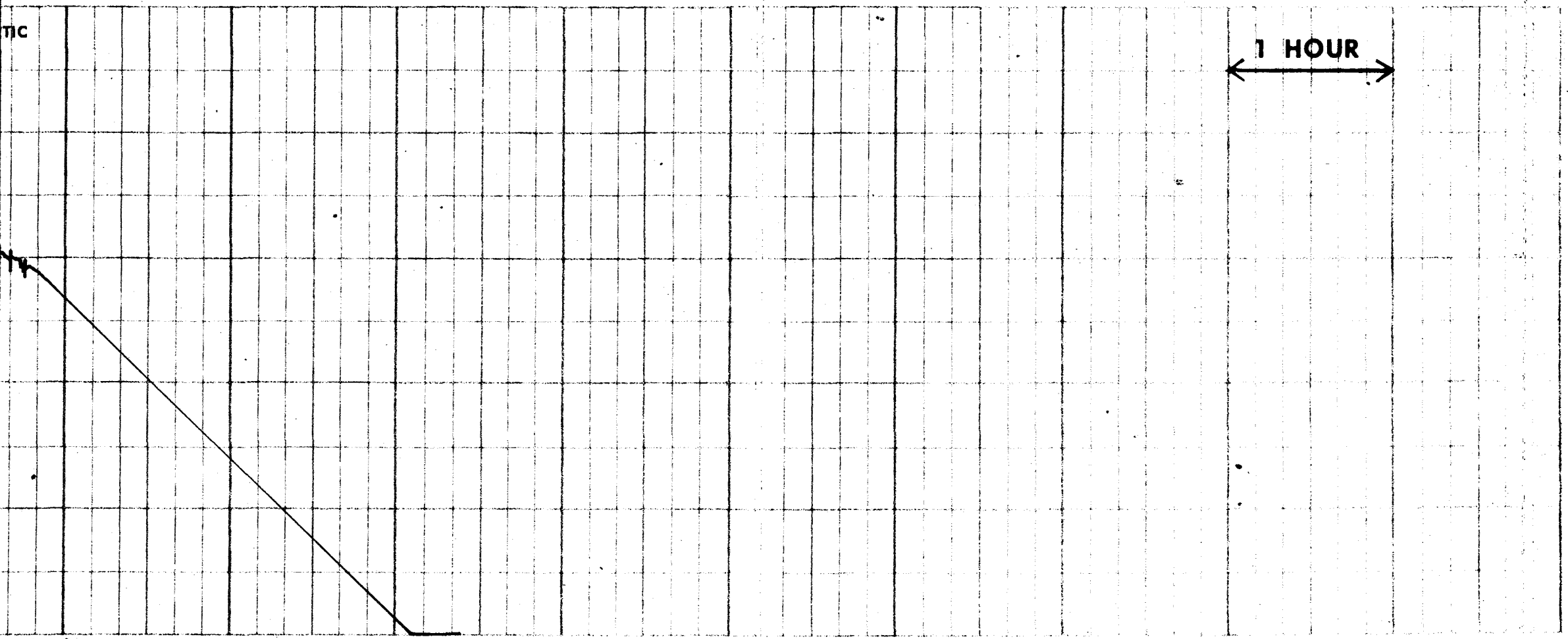
Instrument: Number J-013

Capacity 4700 p.s.i.

Depth 6336 ft.

*a continuous tracing of the original chart





0900

Form J-228a

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SURFACE INFORMATION

Description (Rate of Flow)	Time	Pressure (P.S.I.G.)	Surface Choke
Opened Tool	0633	-	1/4"
GOOD BLOW OFF BOTTOM OF			
BUCKET IMMEDIATELY			
CYCLED TOOL	0638	-	"
CYCLED TOOL	0643	-	"
CYCLED TOOL	0658	-	"
CYCLED TOOL	0710	-	"
CYCLED TOOL	0718	-	"
EQUALIZED MUD	0758	-	"
PULLED PACKER LOOSE	0812	-	-

Cushion Type	Amount	Pressure	Bottom Choke
	-		Size 5/8"

MUD DATA

Mud Type: GELEX - GEL Wt.: 9.0
Viscosity: 50 Water Loss: 13 C.C.
Resist: of Mud 1.7 @ 58 °F; of Filtrate 1.5 @ 56 °F
Chloride Content: 1400 PPM

EQUIPMENT & HOLE DATA

Type Test: M.F.E. OPEN HOLE
Formation Tested: PARK CITY
Elevation: 7784 Ft.
Net Productive Interval: - Ft.
Estimated Porosity: - %
All Depths Measured From: KELLY BUSHING
Total Depth: 6382 Ft.
Main Hole/Casing Size: 7 7/8"
Rat Hole/Liner Size: -
Drill Collar Length: 345' I.D. -
Drill Pipe Length: 5951' I.D. -
Packer Depth(s): 6326' & 6330' Ft.

MULTI-FLOW EVALUATOR FLUID SAMPLE DATA

Sampler Pressure: 25 P.S.I.G. at Surface
Recovery: Cu. Ft. Gas: -
cc. Oil: -
cc. Water: 2480
cc. Mud: -
Tot. Liquid cc.: 2480
Gravity: - °API @ - °F.
Gas/Oil Ratio: - cu. ft./bbl.

	RESISTIVITY	CHLORIDE CONTENT
Recovery Water	3.8 @ 72 °F.	75 ppm
Recovery Mud	- @ - °F.	
Recovery Mud Filtrate	- @ - °F.	- ppm
Mud Pit Sample	1.7 @ 58 °F.	
Mud Pit Sample Filtrate	1.5 @ 56 °F.	1400 ppm

RECOVERY DESCRIPTION	FEET	BARRELS	% OIL	% WATER	% OTHERS	API GRAVITY	RESISTIVITY	CHL. PPM
MUD CUT WATER	1080	-				@ °F.	1.7 @ 50 °F.	750
WATER	4920	-				@ °F.	4.6 @106 °F.	75
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	

Remarks: UNSUCCESSFUL TEST; M.F.E. TOOL FAILED TO STAY IN SHUT-IN POSITION.

Address: 1860 LINCOLN STREET, SUITE 501; DENVER, COLORADO 80202; ATTN: MR. M. E. BROWN

Company: ATLANTIC-RICHFIELD COMPANY Field: WHITE ROCK
Well: CART HOLLOW # 1 Location: SEC. 20-TWNSP-2N-RGE-1W
Test Interval: 6330' TO 6382' (UNSUCCESSFUL) Test #: 5 Date: 2-1-75

County: DUCHESNE State: UTAH Field Report No.: 09126 C
Technician: TAYLOR (VERNAL) Test Approved By: MR. E. E. SANDERS No. Reports Requested: 5

JOHNSTON
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PRESSURE DATA

Instrument No.		J-451	J-013	
Capacity (P.S.I.G.)		4700	4700	
Instrument Depth		6306'	6336'	
Instrument Opening		INSIDE	OUTSIDE	
Pressure Gradient P.S.I./Ft.				
Well Temperature °F.		120	120	
Initial Hydrostatic Mud	A	2912	2922	
Initial Shut-in	B	-	-	
Initial Flow	C	972	1033	
	C-1	1710	1732	
	C-2	2603	2609	
Final Flow	D	2645	2651	
Final Shut-in	E	-	-	
Final Hydrostatic Mud	F	2905	2923	

Field Report No. 09126 C

TIME DATA

	Time Given	Time Computed
B	- Mins.	Mins.
C	- Mins.	Mins.
C-1	- Mins.	Mins.
C-2	- Mins.	Mins.
D	85 Mins.	Mins.
E	- Mins.	Mins.

Remarks:

UNSUCCESSFUL TEST.

**Shut in pressure did not reach static reservoir pressure.*

Clock Travel _____ inches per min.

PRESSURE INCREMENTS

Point Minutes	Pressure	$\frac{T+\Delta t}{\Delta t}$	Point Minutes	Pressure	$\frac{T+\Delta t}{\Delta t}$	Point Minutes	Pressure	$\frac{T+\Delta t}{\Delta t}$

JOHNSTON
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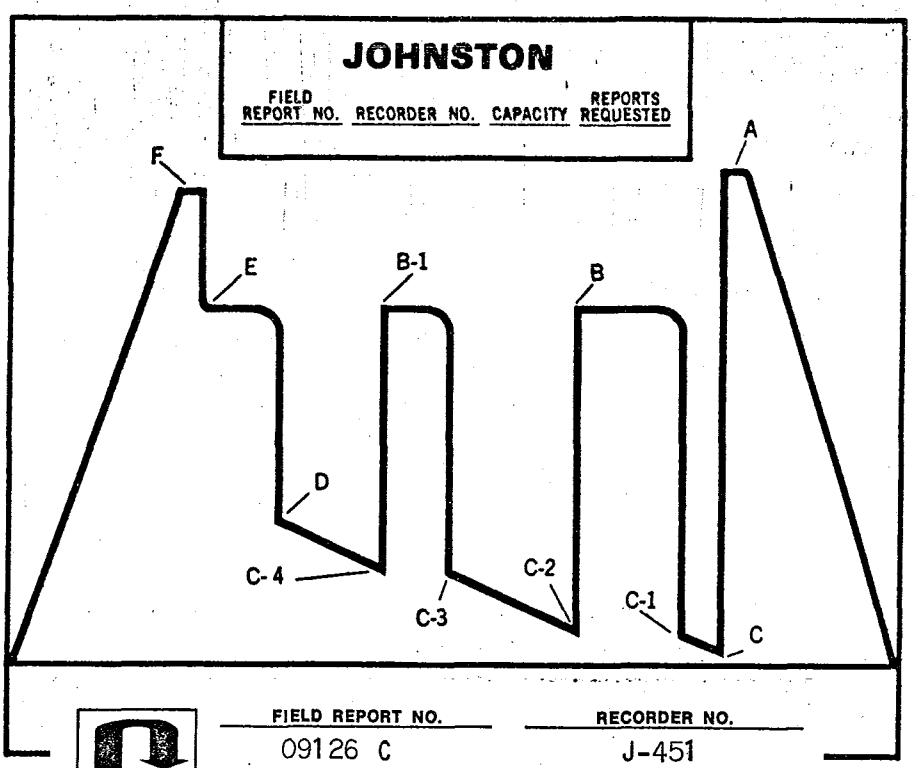
GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



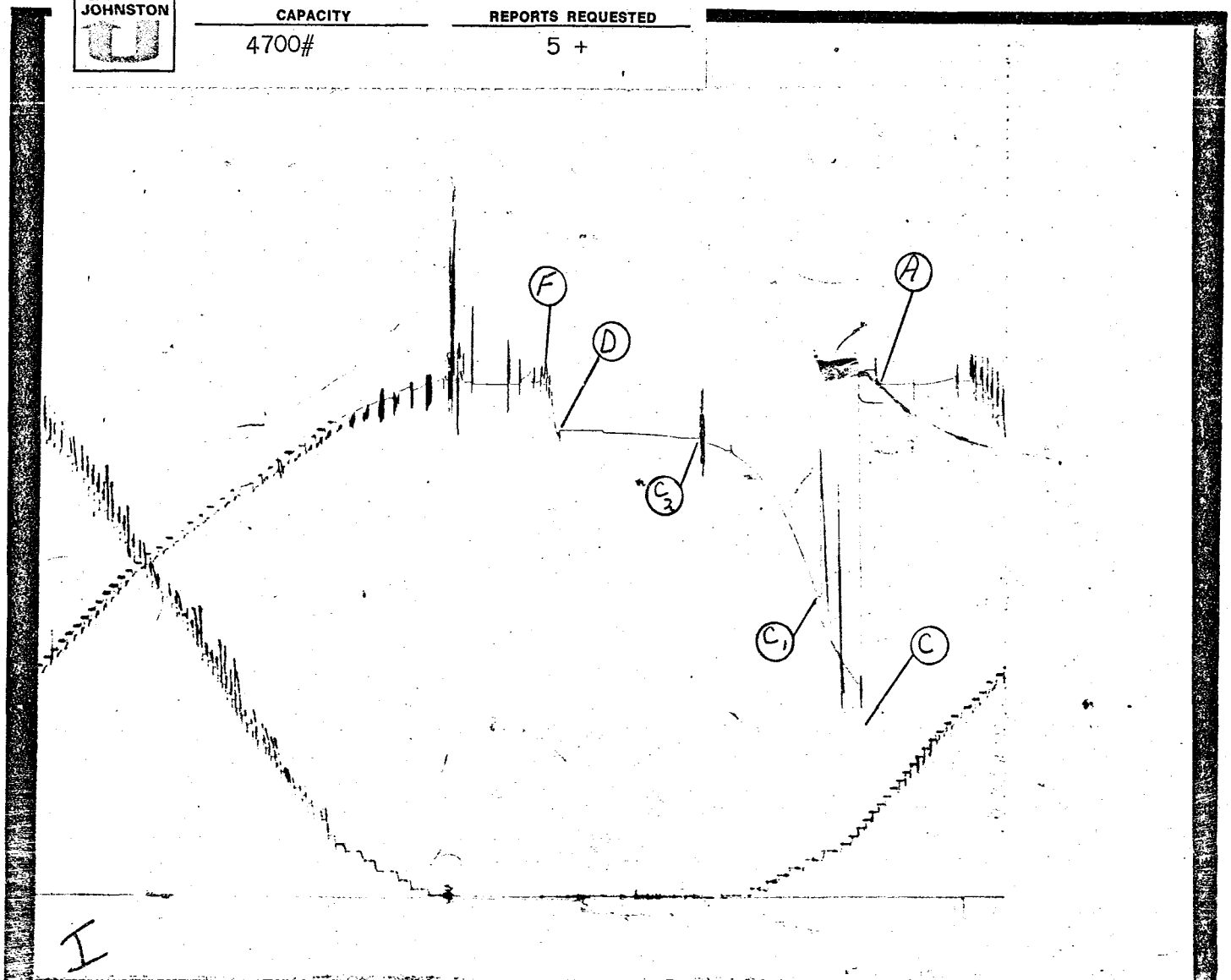
A. Initial Hyd. Mud
B. Initial Shut-in
C. Initial Flow
D. Final Flow
E. Final Shut-in
F. Final Hyd. Mud

The following points are either fluctuating pressures or points indicating other packer settings, (testing different zones).

A-1, A-2, A-3, etc. Initial Hyd. Pressures
B-1, B-2, B-3, etc. Subsequent Shut-in Pressures
C-1, C-2, C-3, etc. Flowing Pressures
D-1, D-2, D-3, etc. Subsequent Final Flow Pressures
E-1, E-2, E-3, etc. Subsequent Final Shut-in Pressures
F-1, F-2, F-3, etc. Final Hyd. Mud Pressures
Z — Special pressure points such as pumping pressure recorded for formation breakdown.

JOHNSTON

FIELD REPORT NO.	RECORDER NO.
09126 C	J-451
CAPACITY	**REPORTS REQUESTED**
4700#	5 +



JOHNSTON
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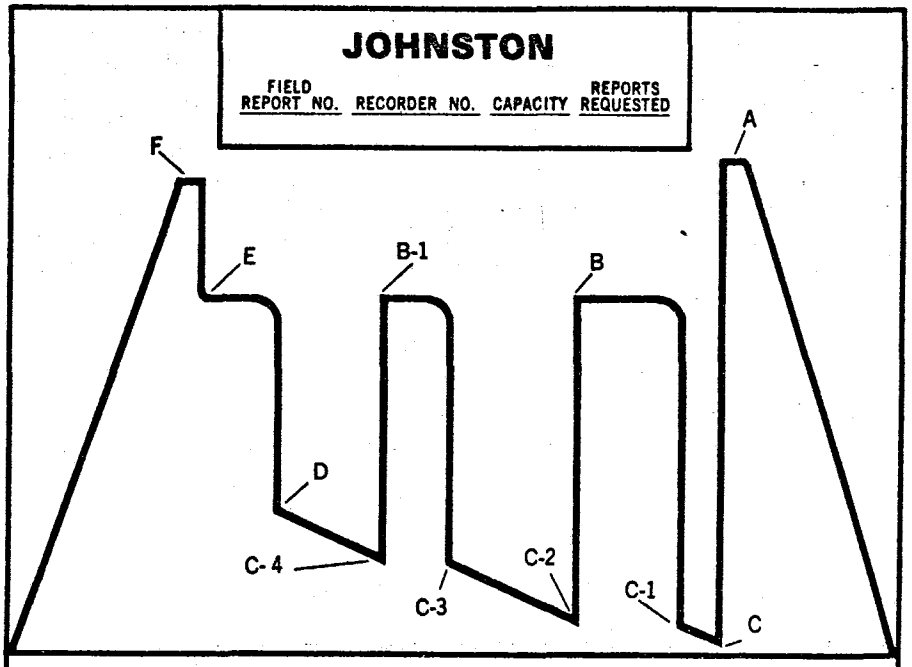
GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



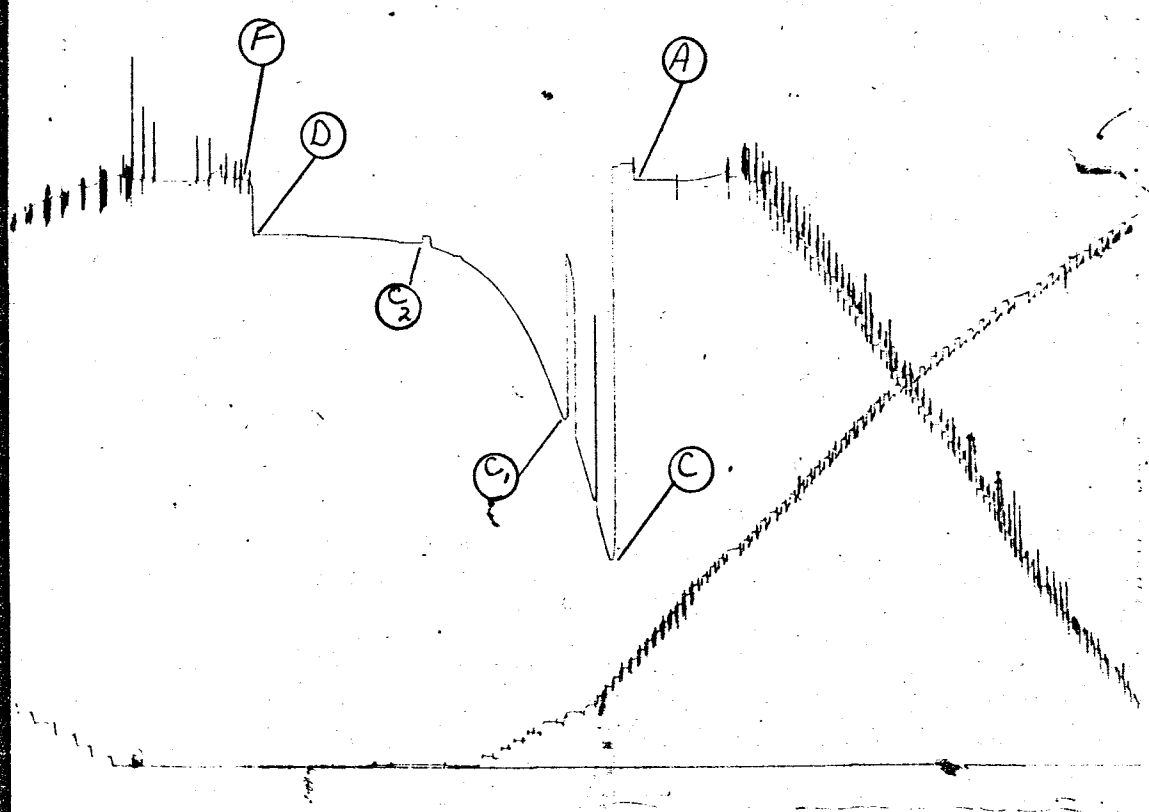
A. Initial Hyd. Mud
B. Initial Shut-in
C. Initial Flow
D. Final Flow
E. Final Shut-in
F. Final Hyd. Mud

The following points are either fluctuating pressures or points indicating other packer settings, (testing different zones).

A-1, A-2, A-3, etc. Initial Hyd. Pressures
B-1, B-2, B-3, etc. Subsequent Shut-in Pressures
C-1, C-2, C-3, etc. Flowing Pressures
D-1, D-2, D-3, etc. Subsequent Final Flow Pressures
E-1, E-2, E-3, etc. Subsequent Final Shut-in Pressures
F-1, F-2, F-3, etc. Final Hyd. Mud Pressures
Z — Special pressure points such as pumping pressure recorded for formation breakdown.

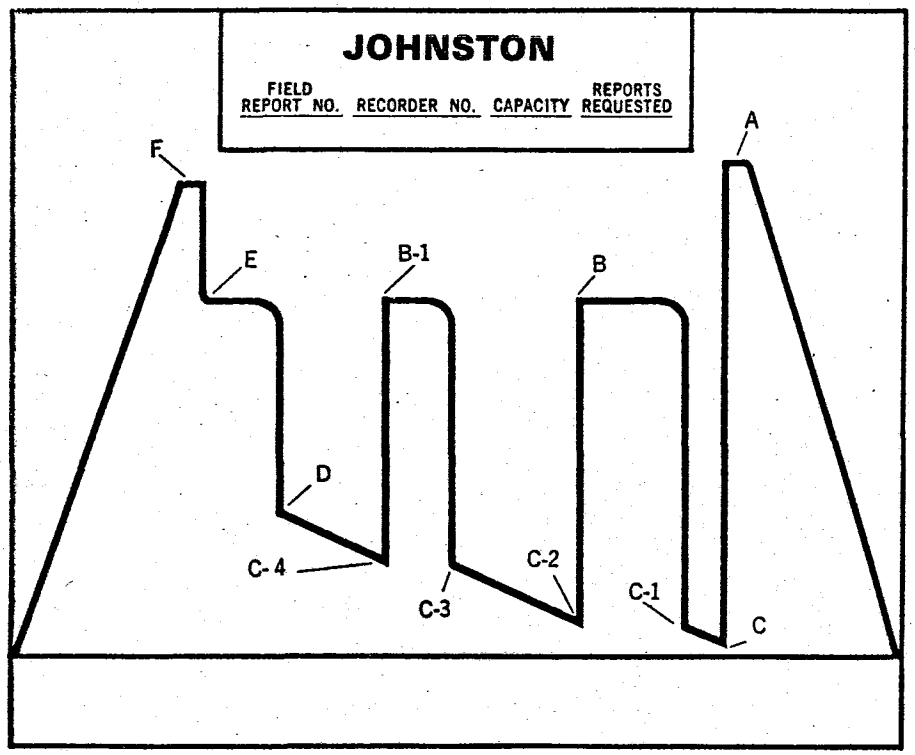
JOHNSTON

FIELD REPORT NO.	RECORDER NO.
09126 C	J-013
CAPACITY	**REPORTS REQUESTED**
4700#	5 +



JOHNSTON
...found a better way

GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



A. Initial Hyd. Mud
B. Initial Shut-in
C. Initial Flow
D. Final Flow
E. Final Shut-in
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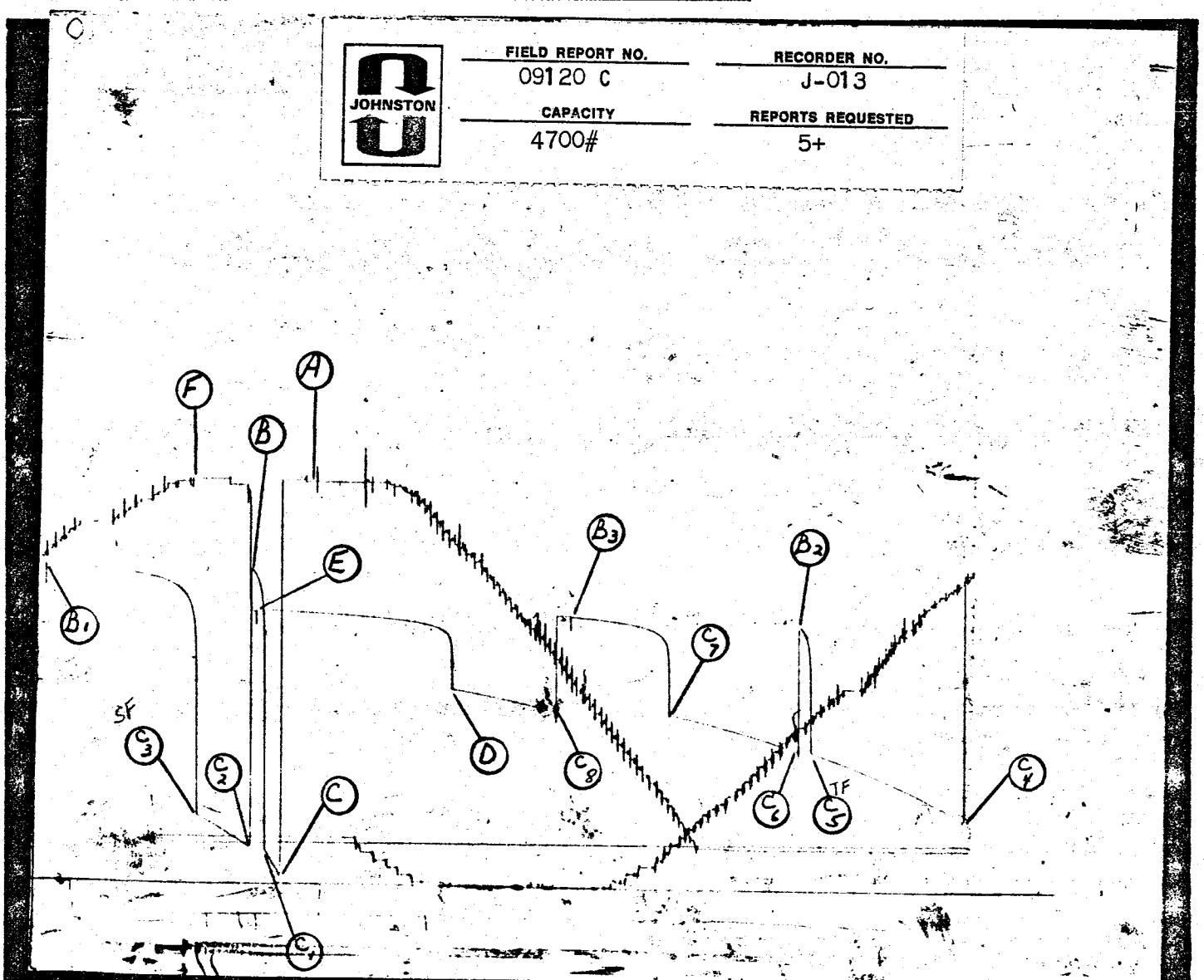


COMPANY ATLANTIC-RICHFIELD COMPANY WELL CART HOLLOW # 1 TEST NO. 4 COUNTY DUCHESNE STATE UTAH

JOHNSTON

Schlumberger

technical report

F.R. # 09125 C

JOHNSTON

PRESSURE LOG*

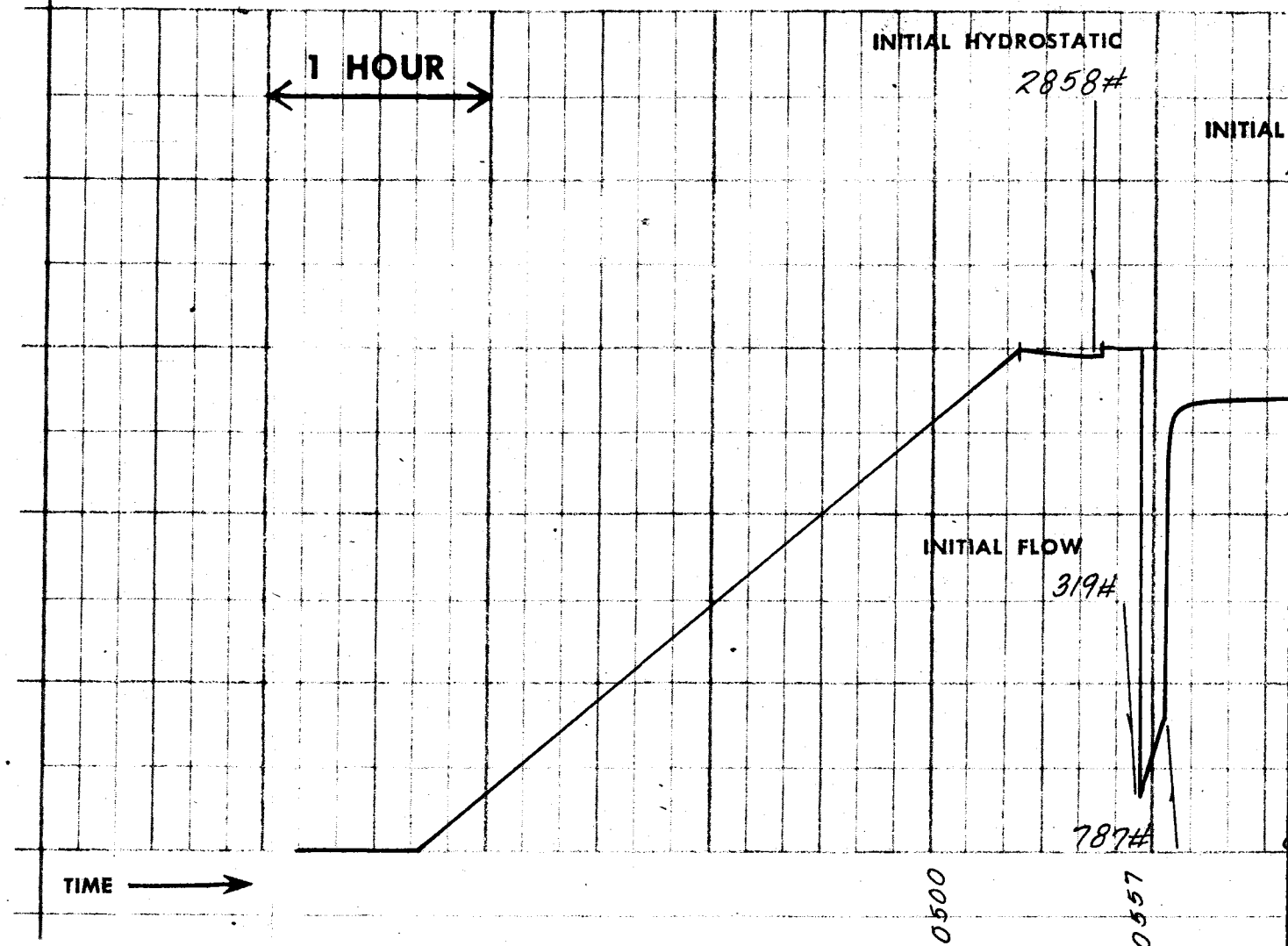
Field Report No. 09125C

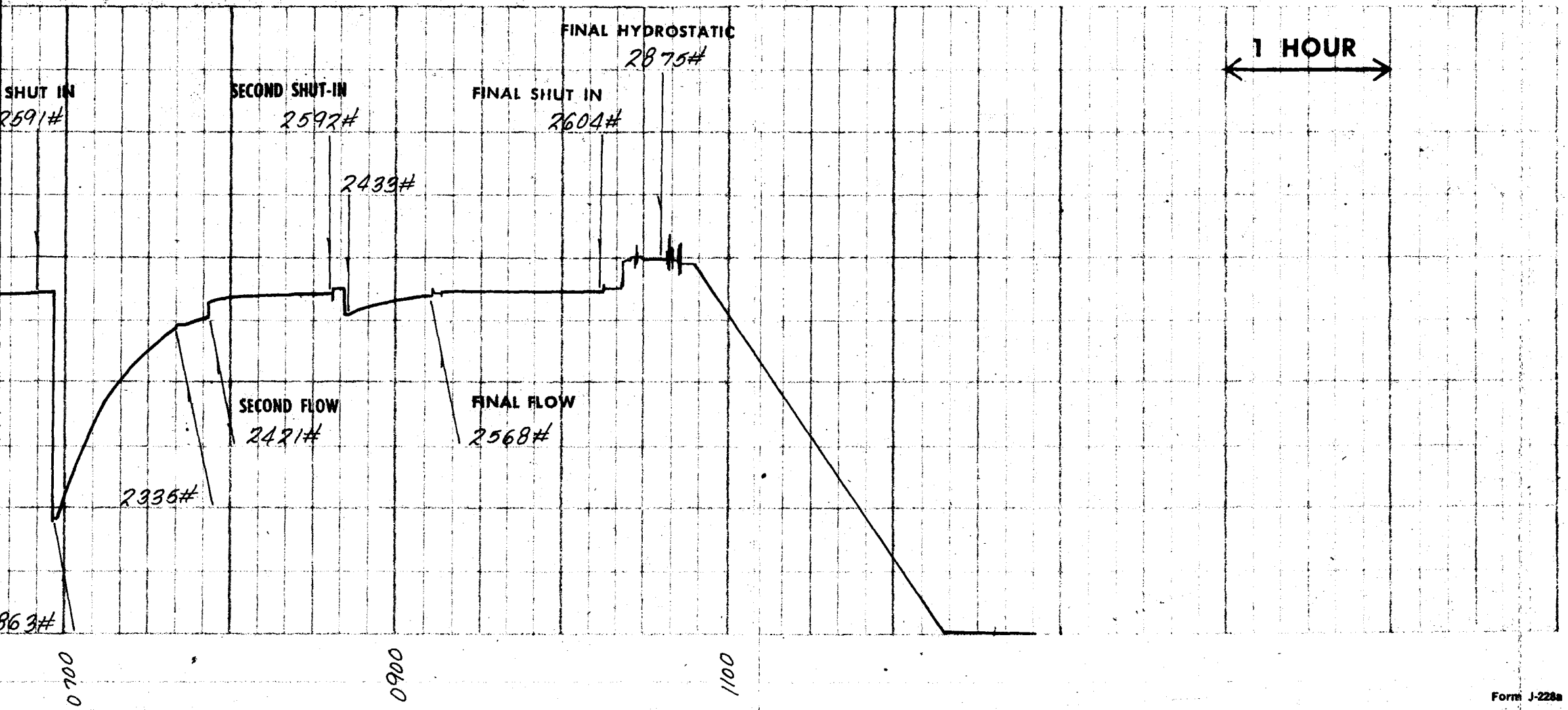
Instrument: Number J-013

Capacity 4700 p.s.i.

Depth 6217 ft.

*a continuous tracing of the original chart




FINAL HYDROSTATIC
2875#
1 HOUR
SHUT IN
2591#
SECOND SHUT-IN
2592#
FINAL SHUT IN
2604#
2433#
SECOND FLOW
2421#
FINAL FLOW
2568#
2335#
863#
0700
0900
1100

Form J-228a

JOHNSTO
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SURFACE INFORMATION

Description (Rate of Flow)	Time	Pressure (P.S.I.G.)	Surface Choke
Opened Tool	0557	-	1/4"
BLOW, 2" IN WATER, IN-			
CREASED TO BLOW OFF BOTTOM			
OF BUCKET IMMEDIATELY			
CLOSED FOR INITIAL SHUT-IN	0603	-	"
FINISHED SHUT-IN	0649	-	"
RE-OPENED TOOL	0656	-	"
BLOW, 1" IN WATER, IN-			
CREASING			
BLOW OFF BOTTOM OF BUCKET	0659	-	"
CYCLED TOOL	0641	-	"
CLOSED FOR SECOND SHUT-IN	0751	-	"
FINISHED SHUT-IN	0836	-	"
RE-OPENED TOOL	0841	-	"
BLOW, 1" IN WATER, SLOWLY			
INCREASING			
BLOW, 8" IN WATER, SLOWLY			
DECREASING	0850	-	"
CLOSED FOR FINAL SHUT-IN	0914	-	"
FINISHED FINAL SHUT-IN	1014	-	-
PULLED PACKER LOOSE	1026	-	-

Cushion Type	Amount	Pressure	Bottom Choke Size
	-		5/8"

MUD DATA

Mud Type: GELEX-GEL Wt.: 9.0
Viscosity: 36 Water Loss: 12.8 C.C.
Resist: of Mud 1.0 @ 59 °F; of Filtrate .97 @ 60 °F
Chloride Content: 750 PPM

EQUIPMENT & HOLE DATA

Type Test: M.F.E. OPEN HOLE
Formation Tested: PARK CITY
Elevation: - Ft.
Net Productive Interval: 24 Ft.
Estimated Porosity: - %
All Depths Measured From: KELLY BUSHING
Total Depth: 6235 Ft.
Main Hole/Casing Size: 7 7/8"
Rat Hole/Liner Size: -
Drill Collar Length: 345' I.D. -
Drill Pipe Length: 5832' I.D. -
Packer Depth(s): 6207' & 6211' Ft.

MULTI-FLOW EVALUATOR FLUID SAMPLE DATA

Sampler Pressure: 25 P.S.I.G. at Surface
Recovery: Cu. Ft. Gas: -
cc. Oil: -
cc. Water: 2480
cc. Mud: -
Tot. Liquid cc.: 2480
Gravity: - °API @ - °F.
Gas/Oil Ratio: - cu. ft./bbl.

	RESISTIVITY	CHLORIDE CONTENT
Recovery Water	4.1 @ 59 °F.	50 ppm
Recovery Mud	- @ - °F.	
Recovery Mud Filtrate	- @ - °F.	- ppm
Mud Pit Sample	1.0 @ 59 °F.	
Mud Pit Sample Filtrate	.97 @ 60 °F.	750 ppm

RECOVERY DESCRIPTION	FEET	BARRELS	% OIL	% WATER	% OTHERS	API GRAVITY	RESISTIVITY	CHL. PPM
MUD CUT WATER	540	-				@ °F.	1.3 @ 54 °F.	750
WATER	5460	-				@ °F.	4.2 @ 58 °F.	50
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	

Remarks:

Address: 1860 LINCOLN STREET, SUITE 501; DENVER, COLORADO 80202; ATTN: MR. MORSE BROWN

Company: ATLANTIC-RICHFIELD COMPANY Field: WHITE ROCK
Well: CART HOLLOW # 1 Location: SEC. 20-TWP 2N-RGE-1W
Test Interval: 6211' TO 6235' Test #: 4 Date: 1-30-75

County: DUCHESNE State: UTAH
Technician: TAYLOR (VERNAL) Test Approved By: MR. M. A. CORFER

Field Report No.: 09125 C
No. Reports Requested: 5

JOHNSTON
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PRESSURE DATA

Instrument No.		J-451	J-013
Capacity (P.S.I.G.)		4700	4700
Instrument Depth		6184'	6217'
Instrument Opening		INSIDE	OUTSIDE
Pressure Gradient P.S.I./Ft.			
Well Temperature °F.		120	120
Initial Hydrostatic Mud	A	2847	2858
Initial Shut-in	B	* 2594	* 2591
Initial Flow	C	278	319
SECOND FLOW	C-4	2424	2421
SECOND SHUT-IN	B-1	* 2588	* 2592
Final Flow	D	2559	2568
Final Shut-in	E	2593	2604
Final Hydrostatic Mud	F	2861	2875
Remarks:	C-1	775	787
	C-2	844	863
	C-3	2337	2335
	C-5	2426	2433

Field Report No. 09125 C

TIME DATA

Time Given	Time Computed
46 Mins.	47 Mins.
6 Mins.	6 Mins.
55 Mins.	55 Mins.
45 Mins.	45 Mins.
33 Mins.	31 Mins.
60 Mins.	61 Mins.

INCREMENTAL BREAKDOWN DONE ON INSTRUMENT NUMBER J-013.

**Shut in pressure did not reach static reservoir pressure.*

Clock Travel 0.02087 inches per min.

PRESSURE INCREMENTS

Point	Minutes	Pressure	$\frac{T+\Delta t}{\Delta t}$
INITIAL SHUT-IN			
C-1	0	787	
	3	2486	
	6	2536	
	9	2555	
	12	2565	
	15	2571	
	18	2576	
	21	2579	
	24	2581	
	27	2583	
	30	2585	
	33	2586	
	36	2587	
	39	2589	
	42	2590	
	45	2590	
B	47	2591	
INITIAL FLOW			
C	0	319	
	5	702	
C-1	6	787	
SECOND FLOW			
C-2	0	863	
	5	1141	
	10	1406	
	15	1627	
	20	1812	
	25	1964	
CONTINUED			

Point	Minutes	Pressure	$\frac{T+\Delta t}{\Delta t}$
	30	2088	
	35	2188	
	40	2267	
	45	2330	
	50	2381	
C-4	55	2421	
FINAL FLOW			
C-5	0	2433	
	5	2466	
	10	2498	
	15	2523	
	20	2542	
	25	2557	
	30	2567	
D	31	2568	
SECOND SHUT-IN			
C-4	0	2421	
	3	2559	
	6	2566	
	9	2570	
	12	2573	
	15	2576	
	18	2579	
	21	2581	
	24	2583	
	27	2585	
	30	2586	
	33	2588	
	36	2589	
CONTINUED			

Point	Minutes	Pressure	$\frac{T+\Delta t}{\Delta t}$
	39	2590	
	42	2591	
B-1	45	2592	
FINAL SHUT-IN			
D	0	2568	
	5	2604	
	10	2604	
	15	2604	
	20	2604	
	25	2604	
	30	2604	
	35	2604	
	40	2604	
	45	2604	
	50	2604	
	55	2604	
	60	2604	
E	61	2604	

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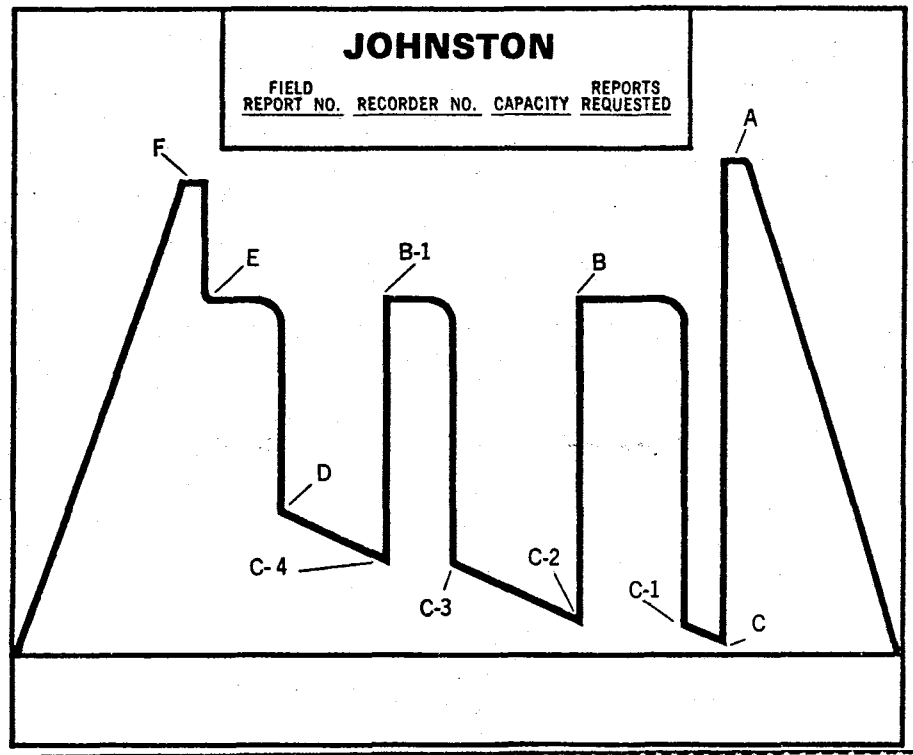
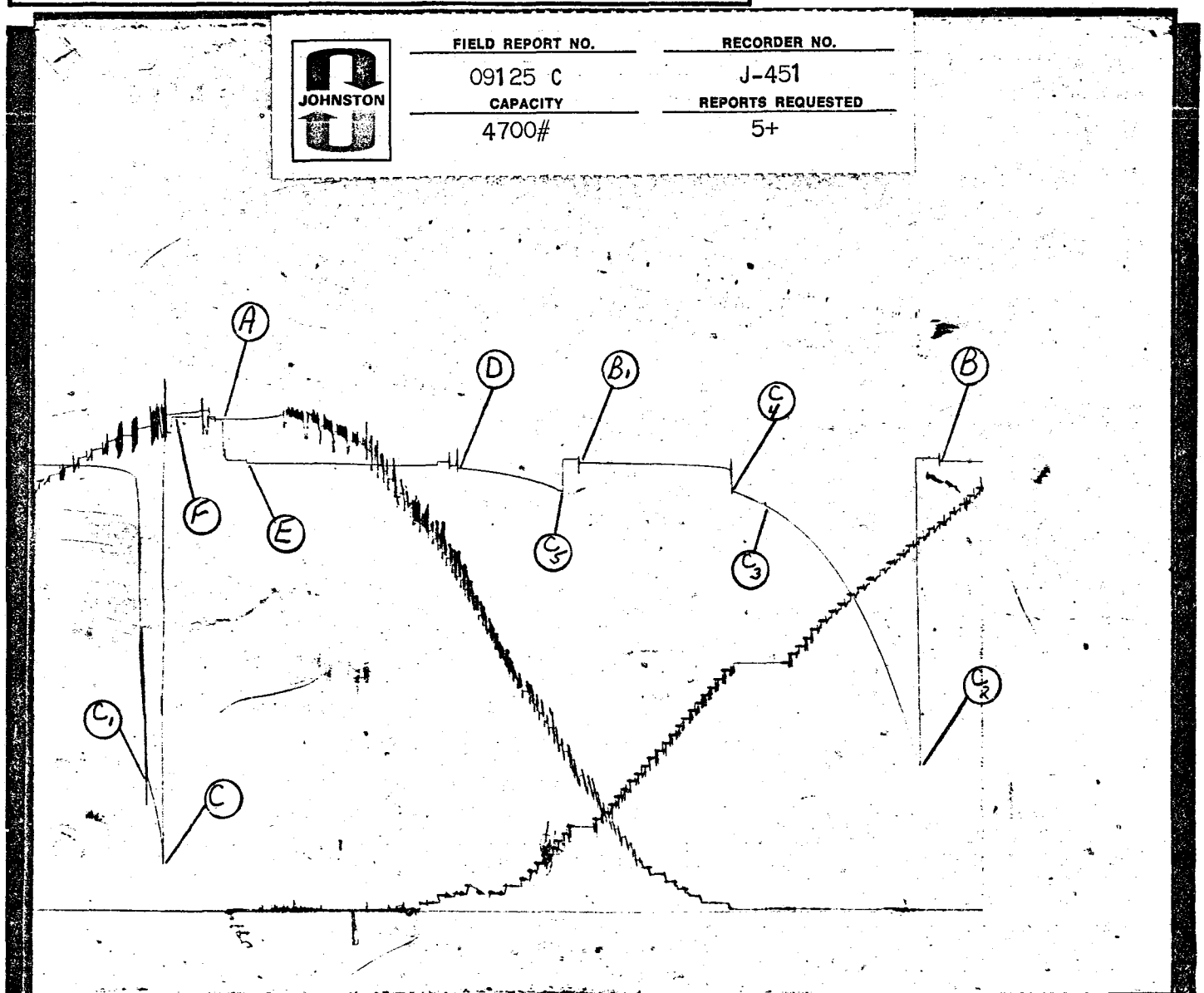
GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



A. Initial Hyd. Mud
B. Initial Shut-in
C. Initial Flow
D. Final Flow
E. Final Shut-in
F. Final Hyd. Mud

The following points are either fluctuating pressures or points indicating other packer settings, (testing different zones).

A-1, A-2, A-3, etc. Initial Hyd. Pressures
B-1, B-2, B-3, etc. Subsequent Shut-in Pressures
C-1, C-2, C-3, etc. Flowing Pressures
D-1, D-2, D-3, etc. Subsequent Final Flow Pressures
E-1, E-2, E-3, etc. Subsequent Final Shut-in Pressures
F-1, F-2, F-3, etc. Final Hyd. Mud Pressures
Z — Special pressure points such as pumping pressure recorded for formation breakdown.



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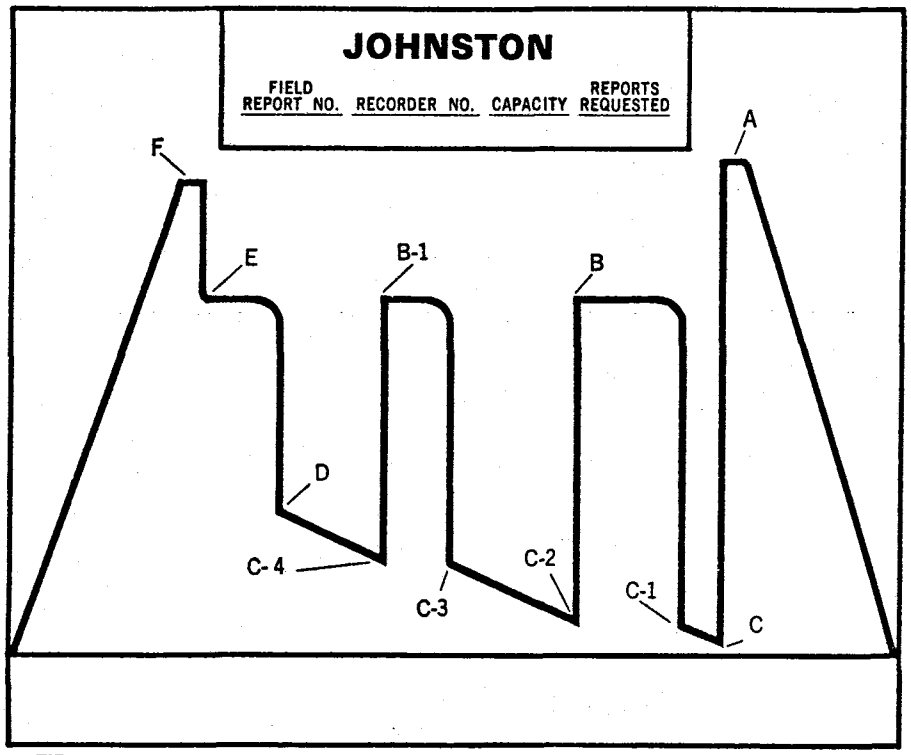
GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



A. Initial Hyd. Mud
B. Initial Shut-in
C. Initial Flow
D. Final Flow
E. Final Shut-in
F. Final Hyd. Mud

The following points are either fluctuating pressures or points indicating other packer settings, (testing different zones).

A-1, A-2, A-3, etc. Initial Hyd. Pressures
B-1, B-2, B-3, etc. Subsequent Shut-in Pressures
C-1, C-2, C-3, etc. Flowing Pressures
D-1, D-2, D-3, etc. Subsequent Final Flow Pressures
E-1, E-2, E-3, etc. Subsequent Final Shut-in Pressures
F-1, F-2, F-3, etc. Final Hyd. Mud Pressures
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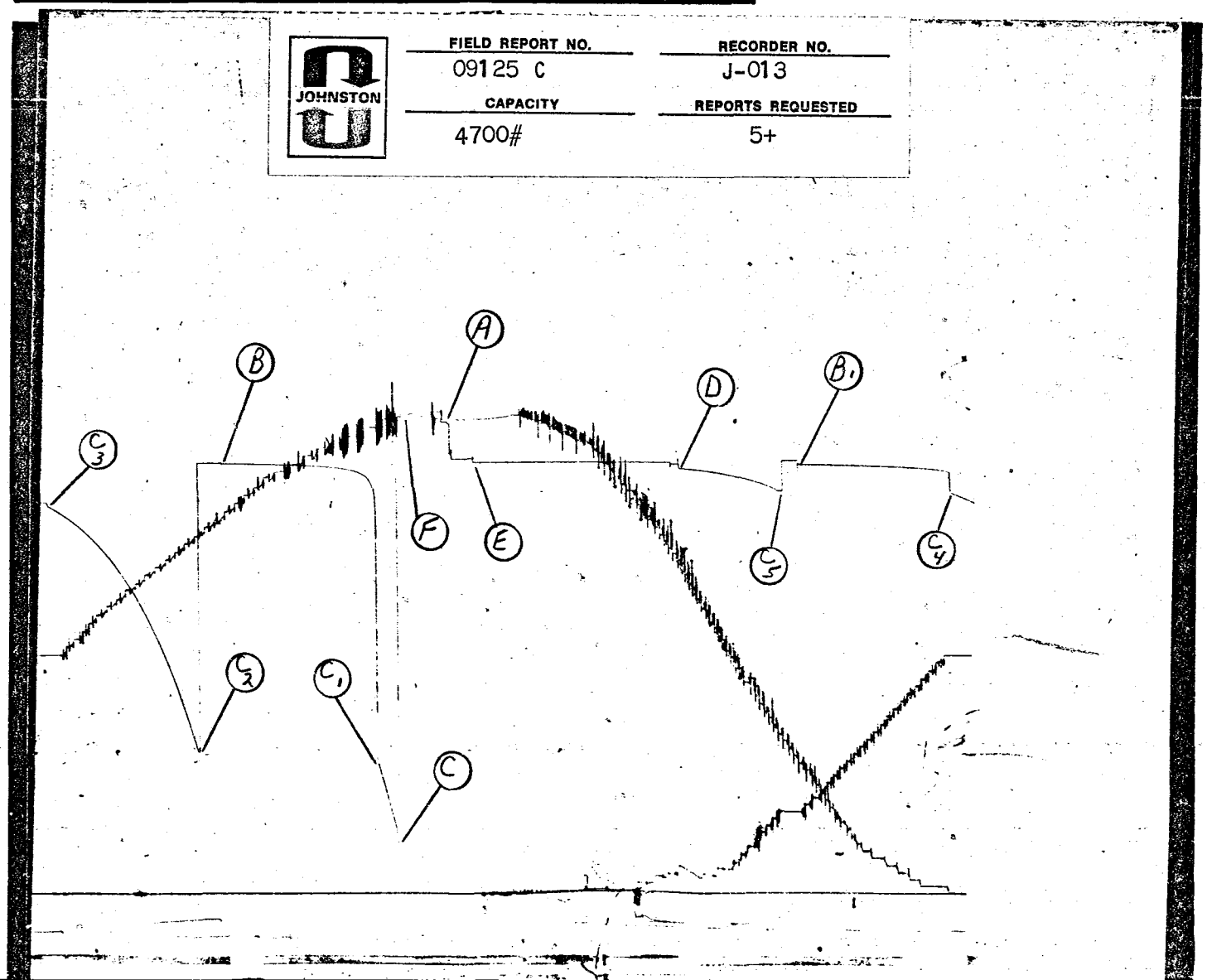


JOHNSTON

Schlumberger

technical report

F.R. # 06847 C

COMPANY ATLANTIC-RICHFIELD COMPANY WELL CART HOLLOW # 1 TEST NO. 3 COUNTY DUCHESNE STATE UTAH

JOHNSTON

PRESSURE LOG*

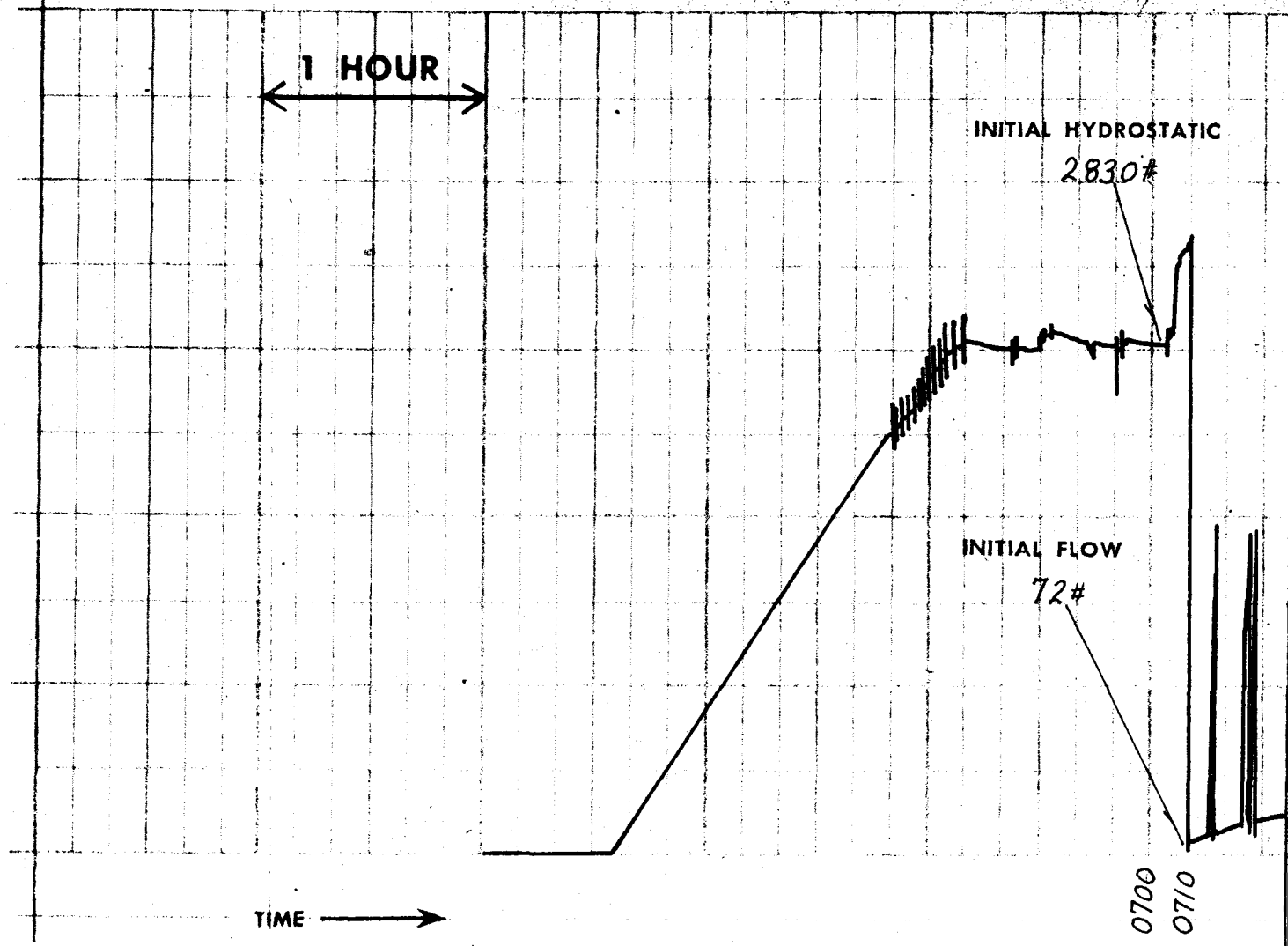
Field Report No. 06847 C

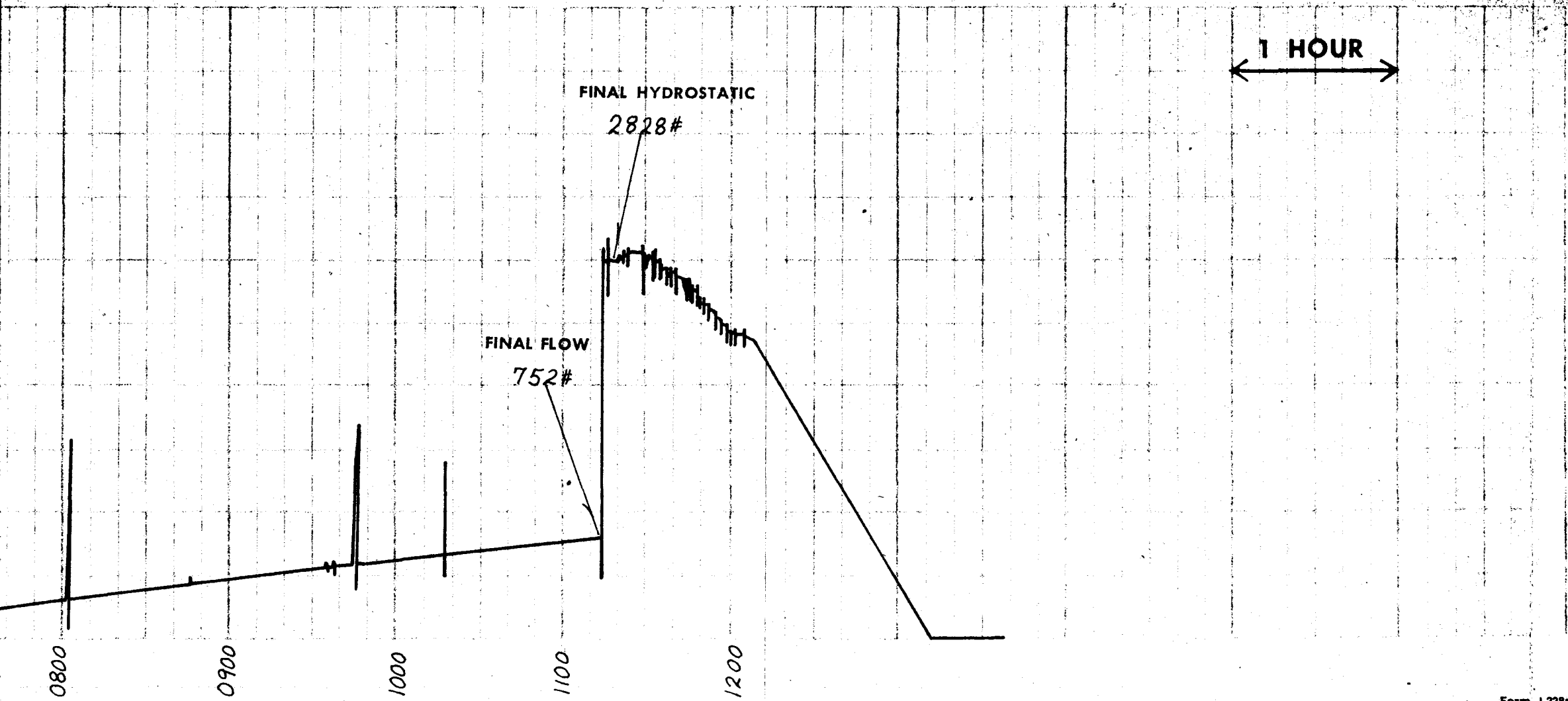
Instrument:
Number J-253

Capacity 4700 p.s.i.

Depth 6067 ft.

*a continuous tracing of the original chart




1 HOUR
FINAL HYDROSTATIC
2828#
FINAL FLOW
752#
0800
0900
1000
1100
1200

Form J-228a

JOHNSTON
...found a better way

SURFACE INFORMATION

Description (Rate of Flow)	Time	Pressure (P.S.I.G.)	Surface Choke
Opened Tool	0710	-	1/4"
BLOW, 1/2" IN WATER INCREASING			
TO BLOW, 2" IN WATER	0714	-	"
ATTEMPTED TO CLOSE FOR			
INITIAL SHUT-IN	0715	-	"
BLOW INCREASED TO 12" IN			
WATER			
ATTEMPTED TO CYCLE TOOL	0800	-	"
ATTEMPTED TO CYCLE TOOL	0802	-	"
STEADY BLOW, 12" IN WATER			
ATTEMPTED TO CLOSE FOR			
SECOND SHUT-IN	0847	-	"
ATTEMPTED TO CYCLE TOOL	0935	-	"
ATTEMPTED TO CYCLE TOOL	0945	-	"
STEADY BLOW, 12" IN WATER			
ATTEMPTED TO CLOSE FOR FINAL			
SHUT-IN	1015	-	"
EQUALIZED MUD	1114	-	"
PULLED PACKER LOOSE	1115	-	-

Cushion Type	Amount	Pressure	Bottom Choke Size
	-		15/16"

MUD DATA

Mud Type: CHEMICAL - GEL Wt.: 9.2
Viscosity: 41 Water Loss: 12.4 C.C.
Resist. of Mud: 1.0 @ 62 °F; of Filtrate: 1.0 @ 65 °F
Chloride Content: 200 PPM

EQUIPMENT & HOLE DATA

Type Test: M.F.E. OPEN HOLE
Formation Tested: PARK CITY
Elevation: - Ft.
Net Productive Interval: 14 Ft.
Estimated Porosity: - %
All Depths Measured From: KELLY BUSHING
Total Depth: 6108 Ft.
Main Hole/Casing Size: 7 7/8"
Rat Hole/Liner Size: -
Drill Collar Length: 511' I.D. -
Drill Pipe Length: 5543' I.D. 3.8"
Packer Depth(s): 6084' & 6088' Ft.

MULTI-FLOW EVALUATOR FLUID SAMPLE DATA

Sampler Pressure: 0 P.S.I.G. at Surface
Recovery: Cu. Ft. Gas: -
cc. Oil: -
cc. Water: 2480
cc. Mud: -
Tot. Liquid cc.: 2480
Gravity: - °API @ - °F.
Gas/Oil Ratio: - cu. ft./bbl.

	RESISTIVITY	CHLORIDE CONTENT
Recovery Water	3.2 @ 64 °F.	7100 ppm
Recovery Mud	- @ - °F.	
Recovery Mud Filtrate	- @ - °F.	- ppm
Mud Pit Sample	1.0 @ 62 °F.	
Mud Pit Sample Filtrate	1.0 @ 65 °F.	200 ppm

RECOVERY DESCRIPTION	FEET	BARRELS	% OIL	% WATER	% OTHERS	API GRAVITY	RESISTIVITY	CHL. PPM
MUDDY WATER	1320	18				@ °F.	1.4 @ 52 °F.	200
WATER	440	2.3				@ °F.	3.9 @ 56 °F.	100
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	

Remarks: UNSUCCESSFUL TEST; FAILED TO GET BOTTOM HOLE SHUT-IN PRESSURES.

Address: 1860 LINCOLN STREET, SUITE 501; DENVER, COLORADO 80202; ATTN: MORSE BROWN

Company: ATLANTIC-RICHFIELD COMPANY Field: WHITE ROCKS
Well: CART HOLLOW # 1 Location: SEC. 20-2N-1W
Test Interval: 6088' TO 6108' (UNSUCCESSFUL) Test #: 3 Date: 1-27-75

County: DUCHESNE State: UTAH Field Report No.: 06847 C
Technician: MARTIN (RIVERTON) Test Approved By: MR. M. A. CONFER No. Reports Requested: 5

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PRESSURE DATA

Instrument No.		J-253	T-203	
Capacity (P.S.I.G.)		4700	5000	
Instrument Depth		6067'	6096'	
Instrument Opening		INSIDE	OUTSIDE	
Pressure Gradient P.S.I./Ft.				
Well Temperature °F.		101	101	
Initial Hydrostatic Mud	A	2830	2836	
Initial Shut-in	B	-	-	
Initial Flow	C	72	79	
Final Flow	D	752	745	
Final Shut-in	E	-	-	
Final Hydrostatic Mud	F	2828	2817	

Field Report No. 06847 C

TIME DATA

Time Given	Time Computed
- Mins.	Mins.
- Mins.	Mins.
- Mins.	Mins.
- Mins.	Mins.
244 Mins.	Mins.
- Mins.	Mins.

Remarks:

UNSUCCESSFUL TEST.

*Shut in pressure did not reach static reservoir pressure.

Clock Travel _____ inches per min.

PRESSURE INCREMENTS

Point Minutes	Pressure	$\frac{T+\Delta t}{\Delta t}$	Point Minutes	Pressure	$\frac{T+\Delta t}{\Delta t}$	Point Minutes	Pressure	$\frac{T+\Delta t}{\Delta t}$

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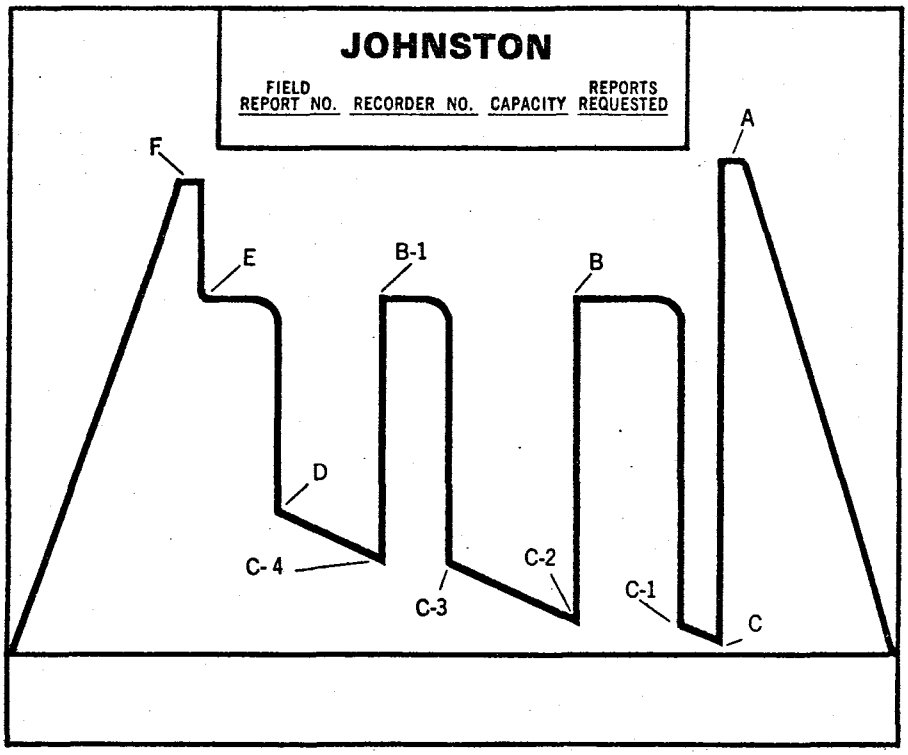
GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



A. Initial Hyd. Mud
B. Initial Shut-in
C. Initial Flow
D. Final Flow
E. Final Shut-in
F. Final Hyd. Mud

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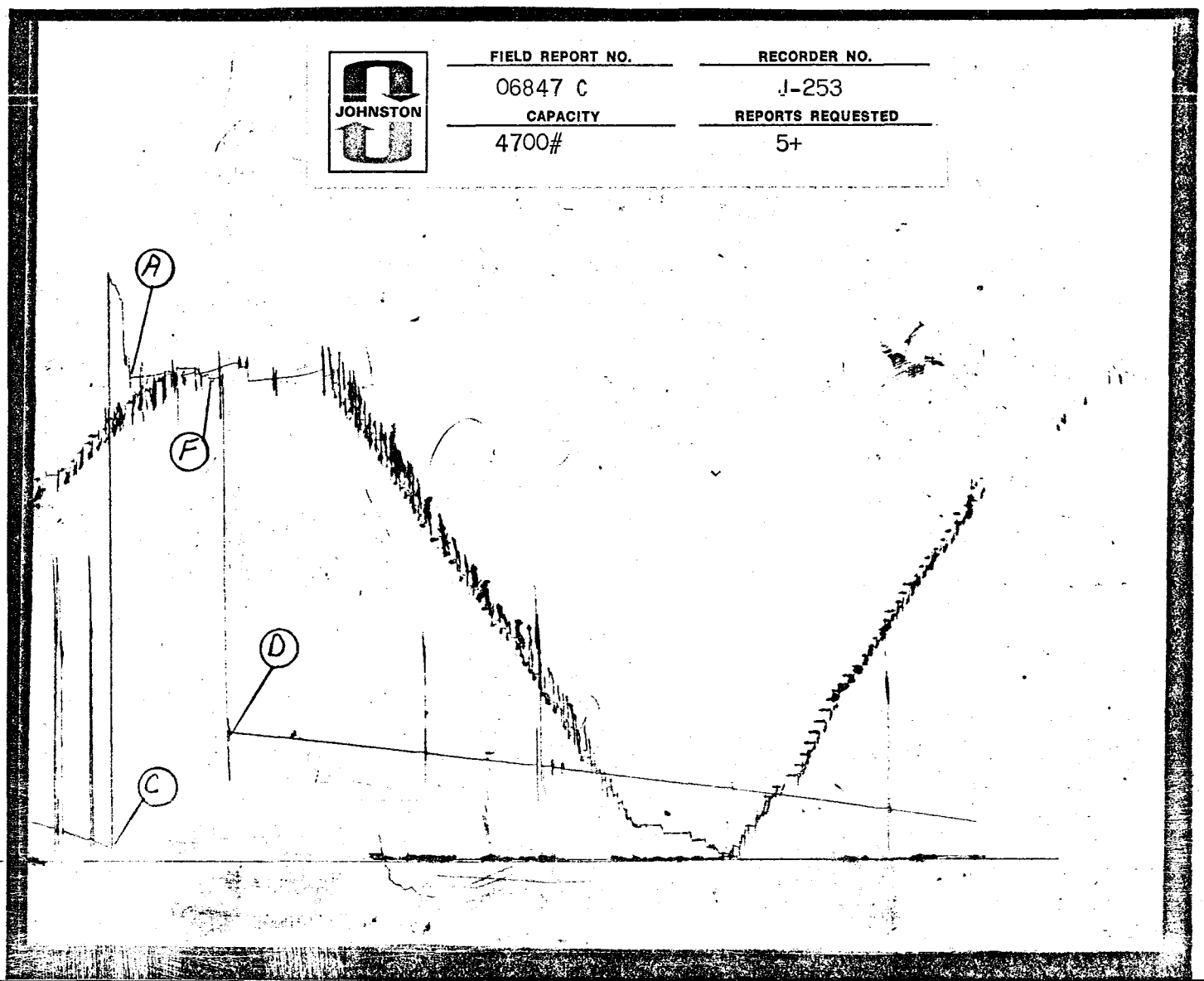
Z — Special pressure points such as pumping pressure recorded for formation breakdown.



JOHNSTON
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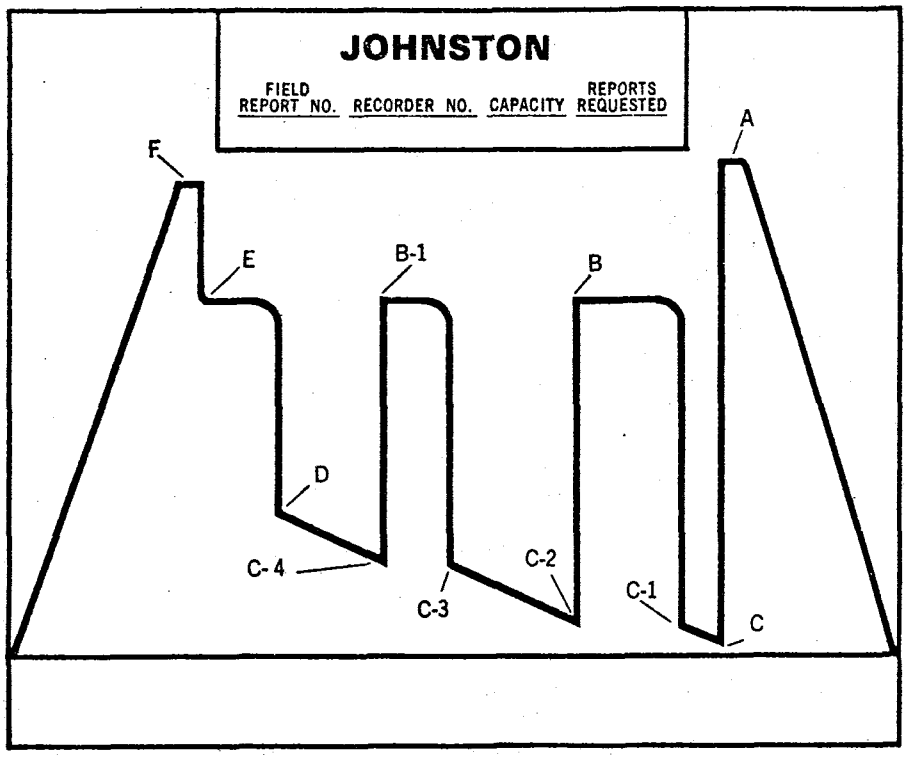
GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



A. Initial Hyd. Mud
B. Initial Shut-in
C. Initial Flow
D. Final Flow
E. Final Shut-in
F. Final Hyd. Mud

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C-1, C-2, C-3, etc. Flowing Pressures
D-1, D-2, D-3, etc. Subsequent Final Flow Pressures
E-1, E-2, E-3, etc. Subsequent Final Shut-in Pressures
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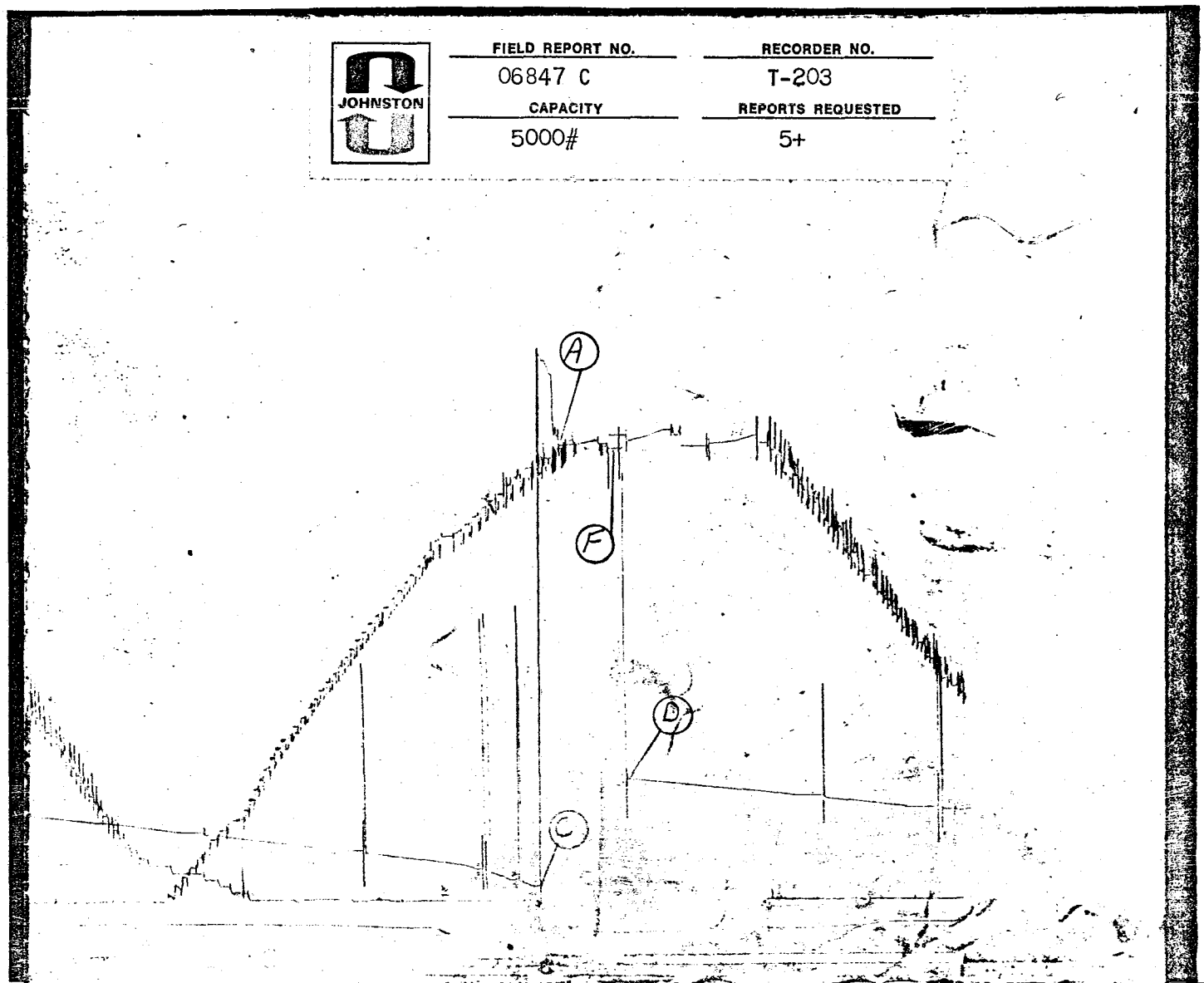
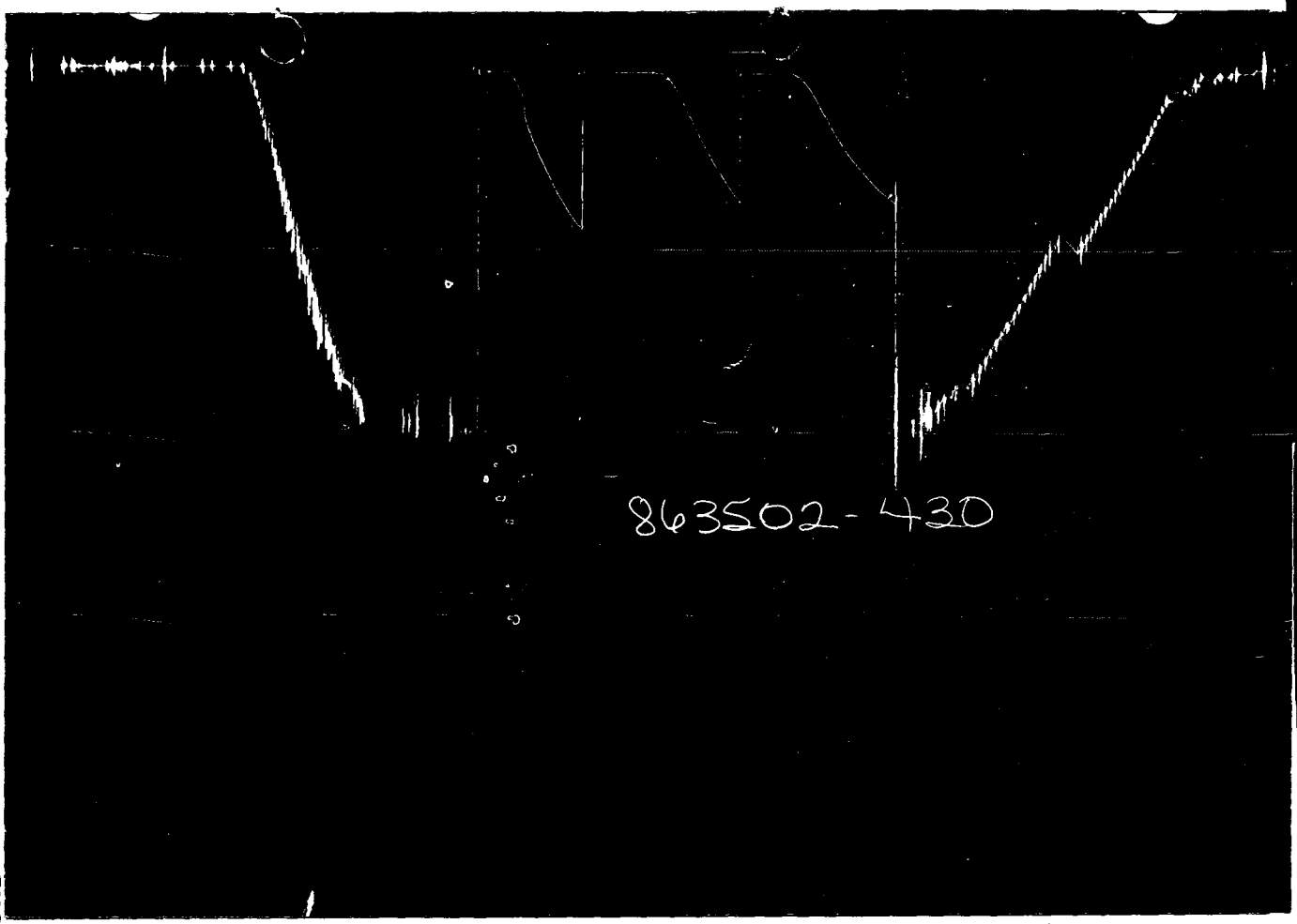
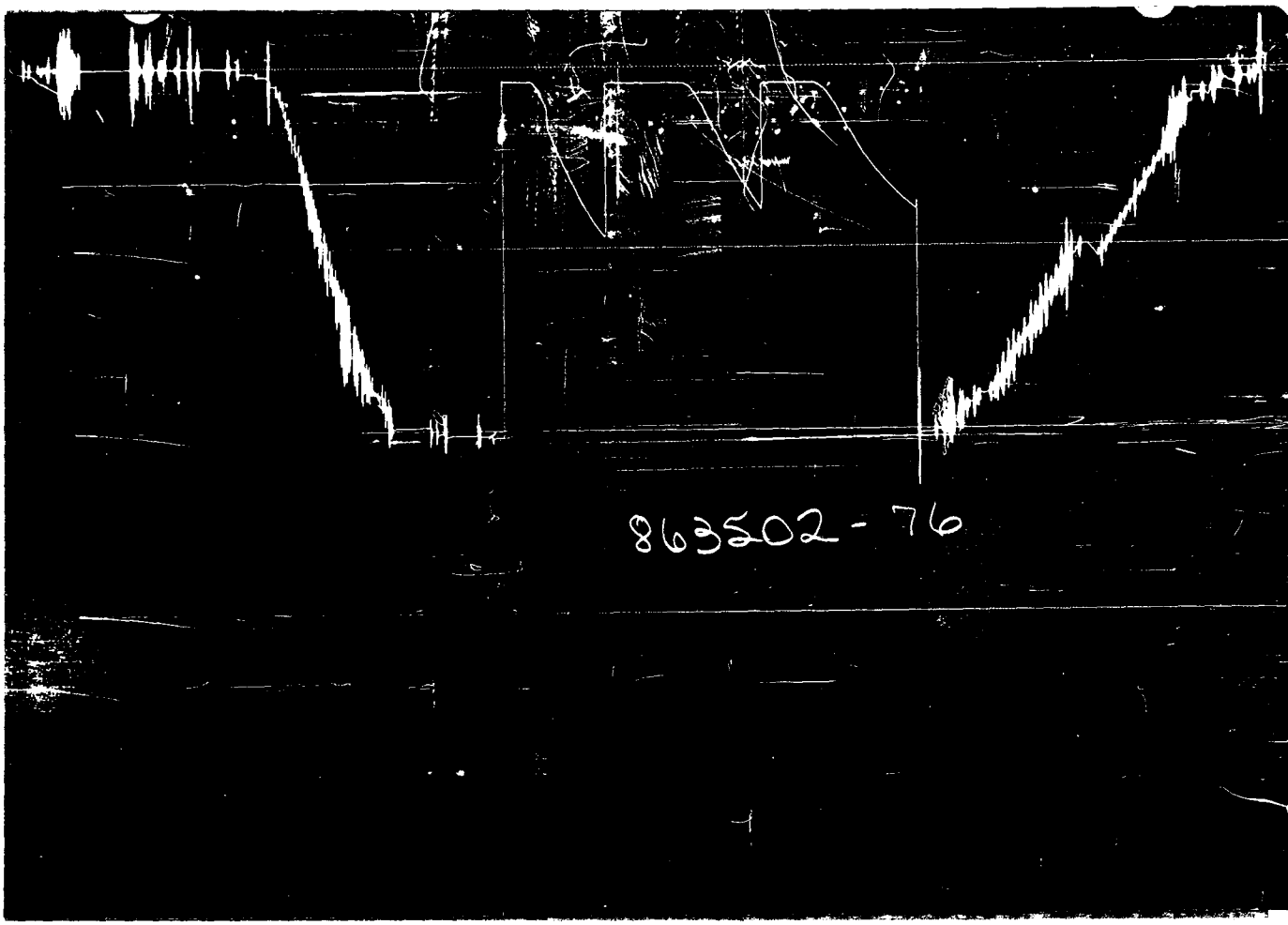




PRESSURE

TIME



Each Horizontal Line Equal to 1000 p.s.i.

FLUID SAMPLE DATA

Sampler Pressure _____ P.S.I.G. at Surface

Recovery: Cu. Ft. Gas _____

cc. Oil _____

cc. Water _____

cc. Mud 2250

Tot. Liquid cc. 2250

Gravity _____ ° API @ _____ °F.

Gas/Oil Ratio _____ cu. ft./bbl.

	RESISTIVITY			CHLORIDE CONTENT	
Recovery Water		@	°F.		ppm
Recovery Mud	1.1	@ 58	°F.	6000	ppm
Recovery Mud Filtrate	.8	@ 100	°F.	5400	ppm
Mud Pit Sample	1.1	@ 58	°F.	6000	ppm
Mud Pit Sample Filtrate	.8	@ 100	°F.	5400	ppm

Mud Weight 8.9 vis 7 cp

Date 1-8-75 Ticket Number 863502

Kind of Job OPEN HOLE TEST Halliburton District VERNAL

Tester MR. CANTRELL Witness MR. SANNER

Drilling Contractor SIGNAL DRILLING COMPANY PW S

EQUIPMENT & HOLE DATA

Formation Tested _____

Elevation 7772' Ft.

Net Productive Interval 10' Ft.

All Depths Measured From Kelly Bushing

Total Depth 4330' Ft.

Main Hole/Casing Size 7 7/8"

Drill Collar Length 434' I.D. 2.75"

Drill Pipe Length 3773' I.D. 3.826"

Packer Depth(s) 4225' - 4230' Ft.

Depth Tester Valve 4207' Ft.

Cushion TYPE AMOUNT Ft. Depth Back Pres. Valve Surface Choke 1/8" Bottom Choke 3/4"

Recovered 50 Feet of Drilling mud 1.1 ohms @ 58° 6000 p.p.m.

Recovered Feet of

Recovered Feet of

Recovered Feet of

Recovered Feet of

Mea. From Tester Valve

Remarks Opened tool for a 16 minute first flow period with a very weak blow, remained weak. Closed tool for a 45 minute initial closed in pressure period. Reopened tool for a 45 minute second flow period with a very weak blow, remained weak. Closed tool for a 47 minute second closed in pressure period. Reopened tool for a 31 minute third flow period. Closed tool for a 60 minute final closed in pressure.

TEMPERATURE	Gauge No. 430 Depth: 4208 Ft.		Gauge No. 76 Depth: 4326 Ft.		Gauge No. Depth: Ft.		TIME	
	12 Hour Clock		12 Hour Clock		Hour Clock		Tool Opened	A.M. 08:40 P.M.
Est. °F.	Blanked Off No		Blanked Off Yes		Blanked Off			
Actual 80 °F.	Pressures		Pressures		Pressures		Opened Bypass	A.M. 12:45 P.M.
	Field	Office	Field	Office	Field	Office	Reported Minutes	Computed Minutes
Initial Hydrostatic	1986	1973	2038	2037				
First Period Flow Initial	14	26	83	86			—	—
First Period Flow Final	14	26	97	87			17	16
First Period Closed in	901	889	962	939			47	45
Second Period Flow Initial	27	32	97	98			—	—
Second Period Flow Final	27	32	97	94			46	45
Second Period Closed in	751	742	798	792			45	47
Third Period Flow Initial	27	37	97	104			—	—
Third Period Flow Final	27	36	97	97			30	31
Third Period Closed in	724	745	784	798			60	60
Final Hydrostatic	1986	1958	2038	2019			—	—

Legal Location Sec. - Twp. - Rng. 20 - 2N - 1W

Lease Name CART HOLLOW

Well No. 1

Test No. 1

Field Area WILDCAT

Tested Interval 4230' - 4330'

County DUCHESNE

State UTAH

Lease Owner/Company Name ATLANTIC RICHFIELD COMPANY

Gauge No. 430				Depth 4208'			Clock No. 6744			12 hour	Ticket No. 863502			
	First Flow Period		First Closed In Pressure			Second Flow Period		Second Closed In Pressure			Third Flow Period		Third Closed In Pressure		
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log}\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log}\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log}\frac{t+\theta}{\theta}$	PSIG Temp. Corr.
0	.000	26	.000		26	.000	32	.000		32	.000	37	.000		36
1	.113	26	.0335		75	.307	32	.0133*		40	.209	36	.0407		78
2			.0670		185			.0467		92			.0813		158
3			.1005		389			.0802		174			.1220		258
4			.1340		500			.1135		269			.1627		359
5			.1675		595			.1470		364			.2033		451
6			.2010		686			.1803		455			.2440		526
7			.2345		766			.2137		535			.2847		591
8			.2680		834			.2471		610			.3254		649
9			.3020		889			.2805		677			.3660		701
10								.3140		742			.4070		745
11															
12															
13															
14															
15															
Gauge No. 76				Depth 4326'			Clock No. 2797			12 hour					
0	.000	86	.000		87	.000	98	.000		94	.000	104	.000		97
1	.108	87	.0331		136	.304	94	.0133*		101	.205	97	.0404		136
2			.0662		247			.0466		150			.0808		215
3			.0993		446			.0799		230			.1212		319
4			.1324		553			.1132		321			.1616		417
5			.1655		646			.1465		417			.2020		508
6			.1986		740			.1798		508			.2424		580
7			.2317		820			.2131		591			.2828		646
8			.2648		887			.2464		666			.3232		703
9			.2980		939			.2797		733			.3636		756
10								.3130		792			.4040		798
11															
12															
13															
14															
15															
Reading Interval			5					5					6		Minutes

REMARKS:

* = 2 minutes

4

TICKET NO. 863502

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Reversing Sub	6"	2.75"	1'	
Water Cushion Valve				
Drill Pipe	4.5"	3.826"	3773'	
Drill Collars	6.5"	2.75"	434'	
Handling Sub & Choke Assembly				
Dual CIP Valve				
Dual CIP Sampler	5"	.87"	8.73'	4202'
Hydro-Spring Tester	5"	.75"	5.04'	4207'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	2.37"	4.11'	4208'
Hydraulic Jar	5"	1.75"	5'	
VR Safety Joint	5"	1.00"	2.55'	
Pressure Equalizing Crossover				
Packer Assembly	6.75"	1.53"	5.80'	4225'
Distributor				
Packer Assembly	6.75"	1.53"	4.80'	4230'
Flush Joint Anchor	5.75"	4.75"	28.50'	
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case				
Drill Collars	6"	2.5"	56.40'	
Anchor Pipe Safety Joint				
Packer Assembly				
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor	5.75"	4.75"	10.5'	
Blanked-Off B.T. Running Case	5.75"	4.5"	4.5'	4326'
Total Depth				4330'

EQUIPMENT DATA

Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: U - 13036

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: -

7. UNIT AGREEMENT NAME: -

8. FARM OR LEASE NAME: Cart Hollow

9. WELL NO.: 1

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 20-2N-1W, USB&M

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] OTHER SINGLE ZONE [X] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR: Atlantic Richfield Company

3. ADDRESS OF OPERATOR: 501 Lincoln Tower Bldg., 1860 Lincoln St., Denver, Colorado 80203

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: SE NW SW - 1623' f/South and ~~1202'~~ 1272' f/West lines Sec. 20
At proposed prod. zone: Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: North thru Whiterocks, Utah 3.5 mi, left 1.2 mi on blacktop, then north & northeast 4.5 mi to location

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): Approx ~~120'~~ 48' f/lease line

16. NO. OF ACRES IN LEASE: 1601.50 ac

17. NO. OF ACRES ASSIGNED TO THIS WELL: - -

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.: 1st well on lease

19. PROPOSED DEPTH: 7,000'

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 7778', GL ungraded

22. APPROX. DATE WORK WILL START*: When approval rec'd., est 10/10/74

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
18 or 18½"	13-3/8"	48#	500'	500 sx (Circ to surface)
7-7/8"	5-1/2"	15.5 & 17#	T.D.	300 sx

Propose to drill this well with rotary tools to an approx depth of 7,000' to test Pre-Tertiary formations, base of Tertiary is estimated to be 3,800'. 13-3/8" surface casing to be set at approx 500' and cemented to surface. A 7-7/8" hole to be drilled to T.D., and well logged. If productive, 5-1/2" casing will be set with sufficient cement to protect all zones. Productive zone(s) will be perforated, treated if necessary, and the well completed.

Attachments: Certified Location Plat
Development Plan for Surface Use
Seven Point Drilling Plan

AOH

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. Copy Original Signed W. A. Walther, Jr.

SIGNED W. A. Walther, Jr. TITLE Dist. Prod. & Drlg. Supt. DATE 9/27/74

(This space for Federal or State office use)

PERMIT NO. 43-013-30350 APPROVAL DATE

APPROVED BY [illegible] TITLE [redacted] DATE [redacted]

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

OPTR

Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

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15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): Approx ~~1100'~~ 1/2 f/lease line

16. NO. OF ACRES IN LEASE: 1801.50 ac

17. NO. OF ACRES ASSIGNED TO THIS WELL: - -

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.: 1st well on lease

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24.

SIGNED W. A. Walther, Jr. TITLE Dist. Prod. & Drlg. Supt. DATE 9/27/74

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY E. W. Guynn TITLE ACTING DISTRICT ENGINEER DATE OCT 17 1974

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

OPTR

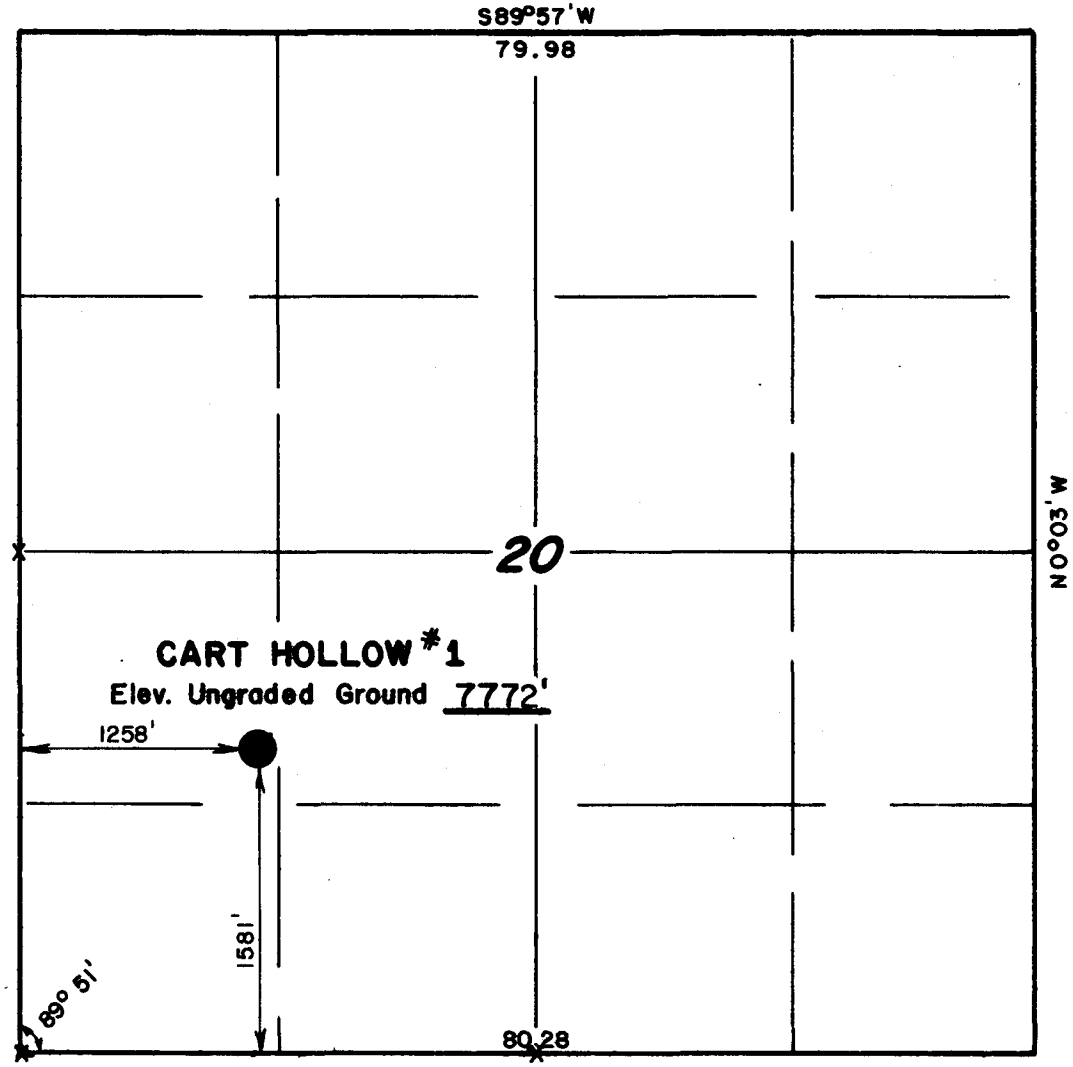
PROJECT

ATLANTIC RICHFIELD

Well location Cart Hollow #1,
located as shown in the NW 1/4,
SW 1/4, Section 20, T2N, R1W,
U.S.B. & M.
Duchesne County, Utah

Revised Location

T2N, R1W, U.S.B. & M.



X=Section Corners Located

CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Lawrence C. Kay
REGISTERED LAND SURVEYOR
REGISTRATION № 3137
STATE OF UTAH

Revised Date: 10/22/74
Revised Date: 9/26/74

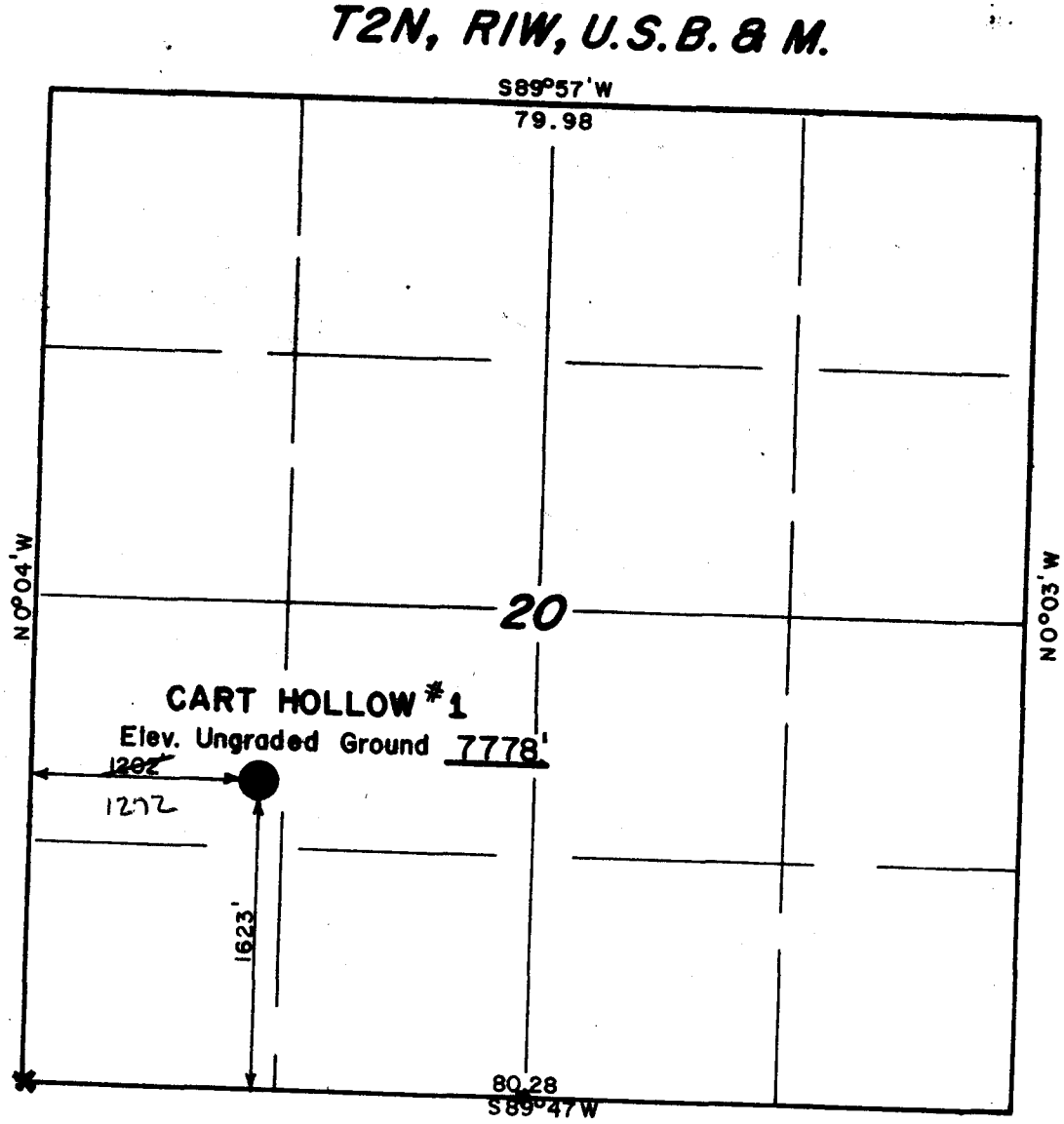
UINTAH ENGINEERING & LAND SURVEYING
P. O. BOX Q – 110 EAST - FIRST SOUTH
VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 9-23-74
PARTY GS – MS – RR	REFERENCES GLO Plat
WEATHER FAIR & WARM	FILE ATLANTIC RICHFIELD

PROJECT

ATLANTIC RICHFIELD

Well location Cart Hollow #1, located as shown in the NW 1/4, SW 1/4, Section 20, T2N, R1W, U.S.B. & M.
Duchesne County, Utah



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Revised Date: 9/26/74

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P. O. BOX Q — 110 EAST - FIRST SOUTH
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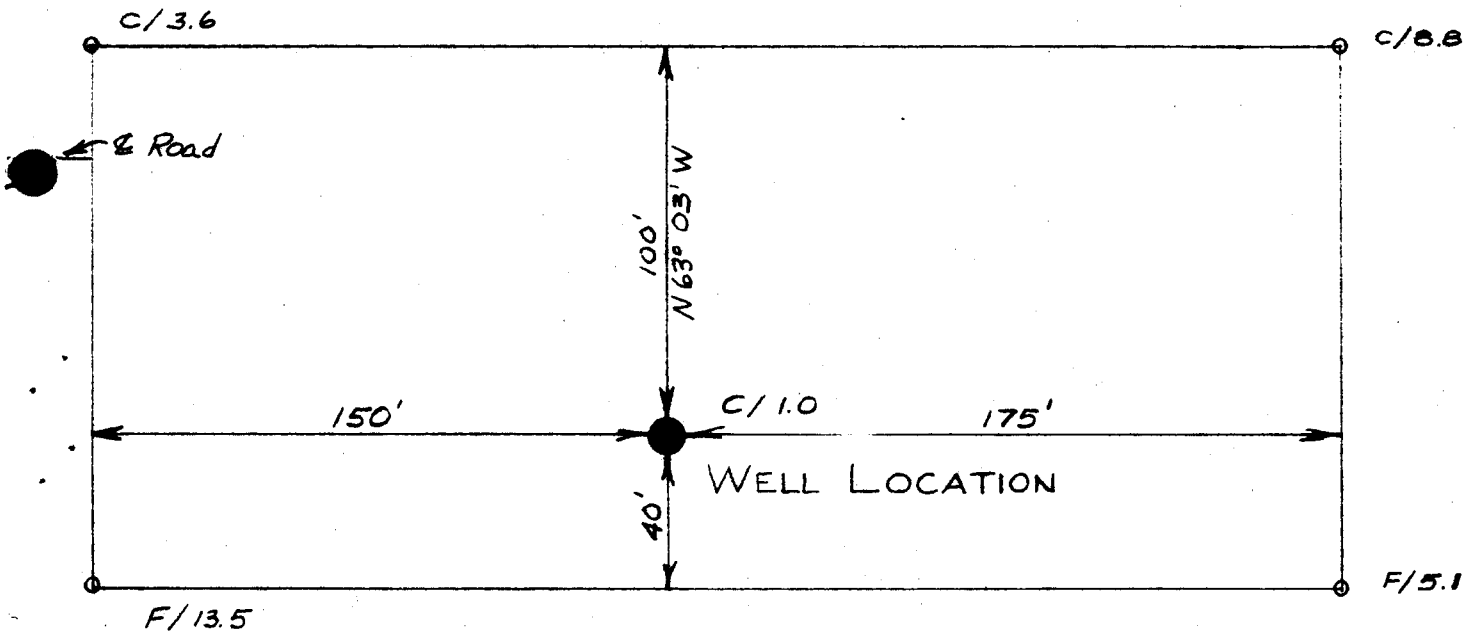
SCALE 1" = 1000'	DATE 9-23-74
PARTY GS – MS – RR	REFERENCES GLO Plat
WEATHER FAIR & WARM	FILE ATLANTIC RICHFIELD

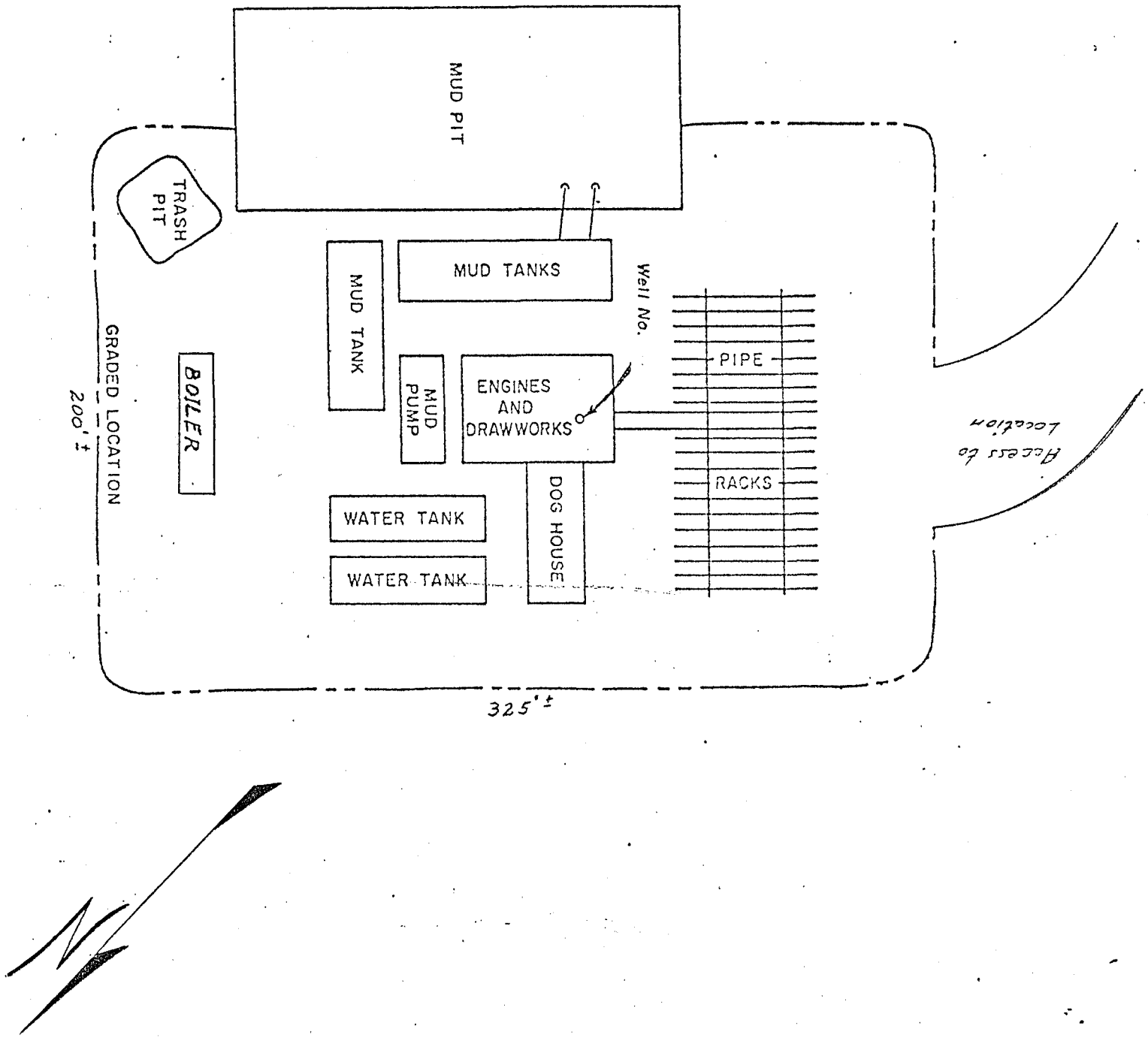
ATLANTIC RICHFIELD

Sec. 20, T2N, R1W,
U.S.B.&M. DUCHESNE
COUNTY, UTAH

Proposed Location



SCALE: 1" = 50'
DATE: Oct. 22, 1974


MUD PIT
TRASH PIT
MUD TANKS
MUD TANK
Well No.
PIPE
BOILER
MUD PUMP
ENGINES AND DRAWWORKS
GRADED LOCATION
200'±
RACKS
WATER TANK
DOG HOUSE
WATER TANK
325'±
Access to Location
N

SEVEN-POINT DRILLING PROGRAM

Cart Hollow, Well #1
NW SW Sec. 20-2N-1W
Duchesne County, Utah

1. Surface Casing: 13-3/8"OD 48# H-40 New - 500'

2. Casing Head: 13-3/8" x 12", Ser 900 (3000#WP, 6000#T) OCT-22, or equivalent, 2/ 2 - 2" LP outlets w/ 1 - 3000#WP valve.

3. Intermediate Casing: None anticipated

4. Blowout Preventers:

Type -	Ram Type
Series -	Ser. 900 (3000#WP, 6000#T) or greater.
No. of Rams -	Two - One blind ram and one pipe ram for 4-1/2"OD drill pipe. No other size drill pipe is anticipated to be used.
Manufacturer -	Cameron or Shaffer, hydraulic operated. Will also use Hydril, 3000#WP, 6000#T, or greater.

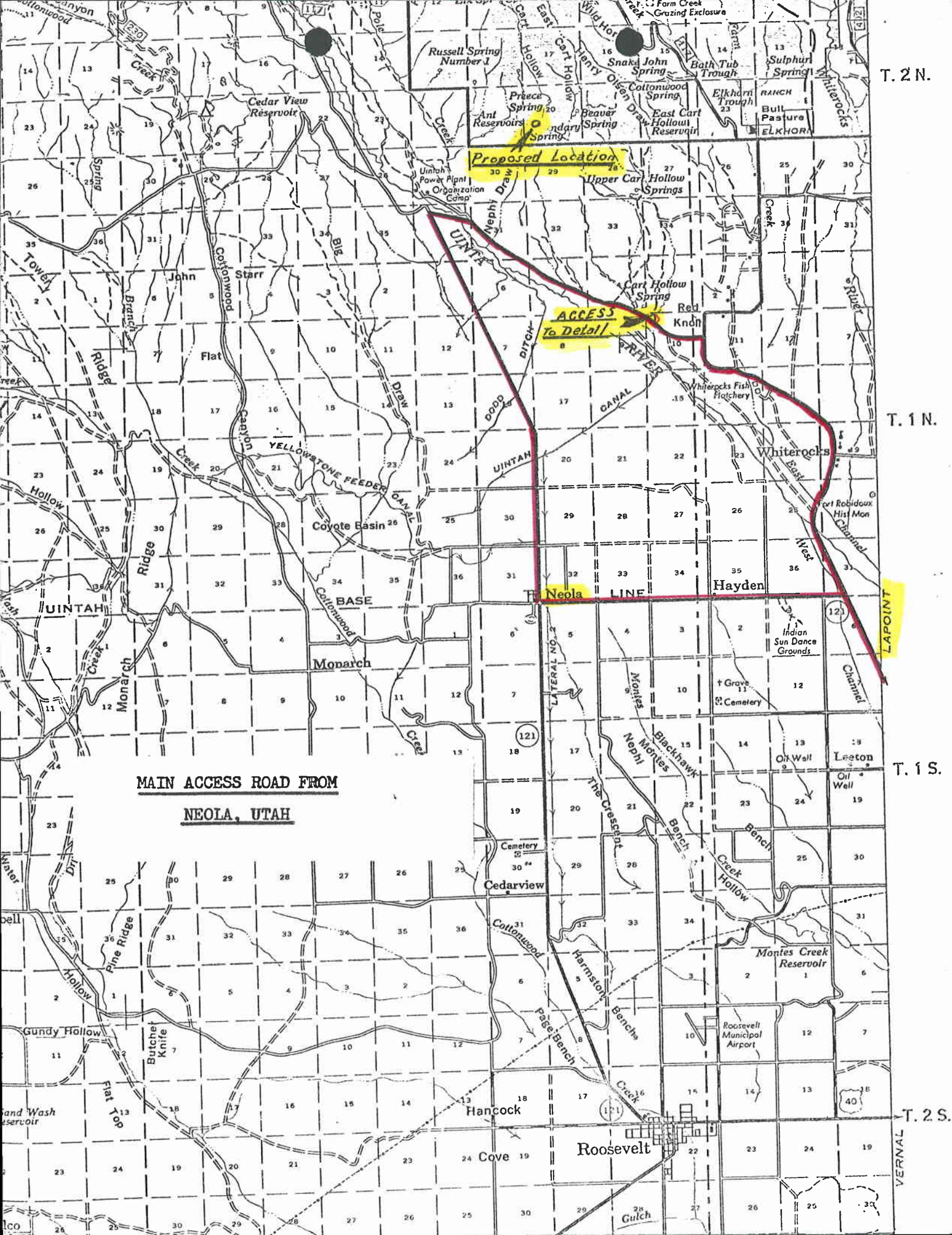
Fill, kill and choke line will be 3000#WP, or greater, connected below rams on BOP.

Blowout equipment will be pressure tested to 1000 psi before drilling out of casing, and operational checks will be made daily.

5. Auxilliary Equipment - Kelly cock
Pit level alarm on mud pit
Sub with full opening valve on floor for use when kelly not in hole.

6. Anticipated Bottom Hole or Maximum Expected Pressure - 2000 psi.

7. Drilling Fluid: Water & gel w/ lime to maintain clean hole for running surface casing.
Below Surface: Water w/ Benex & gel as required to clean hole, 9.0± ppg, viscosity as required, 10cc± water loss, LCM as required.


MAIN ACCESS ROAD FROM
NEOLA, UTAH
Proposed Location
ACCESS To Detail
T. 2 N.
T. 1 N.
T. 1 S.
T. 2 S.
Russell Spring Number 1
Snake John Spring
Bath Tub Trough
Sulphur Spring
Cottonwood Spring
Elkhorn Trough
Preece Spring
Ant Reservoirs
Beaver Spring
East Cart Hollow Reservoir
Cedar View Reservoir
Uintah Power Plant Organization Camp
Upper Cart Hollow Springs
Cart Hollow Spring
Red Knob
Whiterocks Fish Hatchery
Whiterocks
Fort Robidoux Hist Mon
Indian Sun Dance Grounds
Neola
Hayden
Leeton
Oil Well
Coyote Basin
Monarch
Cedarview
Montes Creek Reservoir
Roosevelt Municipal Airport
Hancock
Roosevelt
Cove
UINTAH
UINTAH BASE LINE
YELLOWSTONE FEEDER CANAL
UINTAH DITCH
DODD CANAL
LATERAL NO. 2
LAPOINT
VERNAL
Cottonwood Creek
Cottonwood Canyon
Big Draw
Nephi Draw
Henry Olsen Draw
Cart Hollow
East Cart Hollow
Wild Horse Creek
Farm Creek Grazing Exclosure
Spring Creek
Towely Ridge
John Starr Flat
Pine Ridge
Butchet Knife
Flat Top
Gundy Hollow
Monarch Ridge
Monarch Creek
Montes Nephi
Blackhawk
The Crescent
Harmston Bench
Page Bench
Bench Creek
Hollow
Whiterocks River
East Channel
West Channel
Cemetery
Grove
Gulch

DEVELOPMENT PLAN FOR SURFACE USE

Cart Hollow #1
NW SW Sec. 20-2N-1W
Duchesne County, Utah

1. Existing roads including location of the exit from the main highway:

   Existing road system shown on attached maps. (Trails and shortcuts not to be used have not been included.)

2. Planned access roads:

   The main access roads from Neola, Utah, are highlighted in "red" on the attached maps. A more detailed map showing existing roads near the location and the access road to be constructed is also attached. The new road will be about 2600' from the approximate center of the south line of Section 20 in a northwest direction to the southwest end of the location. About 4.5 miles of existing access road in Sections 29, 28, 27, 34, and 33 will need to be improved.

3. Location of existing wells:

   There are no known wells within a 2 mile radius of the proposed location.

4. Lateral roads to well locations:

   All roads are shown on the attached map. There are no lateral roads to well locations within a 1/2 mile radius.

5. Location of tank batteries and flow lines:

   In the event production is established, temporary testing facilities would be installed at, or adjacent to, the well site and near the present access road. A subsequent Development Plan for Surface Use will be submitted at a later date for permanent tank battery site and flow lines.

6. Location and type of water supply (rivers, creeks, lakes, ponds, wells, etc.):

   Water to be hauled from the Unitah River where it crosses the main road in Section 36-2N-2W.

7. Methods for handling waste disposal:

   Cuttings to be dispoed of in reserve pit, a burn pit to be used for disposal of trash, garbage, etc., and covered on clean-up of location. If any additional surface is required for disposal of waste material from producing operations, the subsequent Development Plan for Surface Use will cover this aspect when it is submitted.

8. Location of camps:

   No camp is anticipated.

9. Location of airstrips:

   No airstrip is planned.

10. Location of layout to include position of the rig, mud tanks, reserve pits, burn pits, pipe racks, etc.:

    Well site location to be approximately 200' X 325' with drilling pad compacted. Sketch attached.

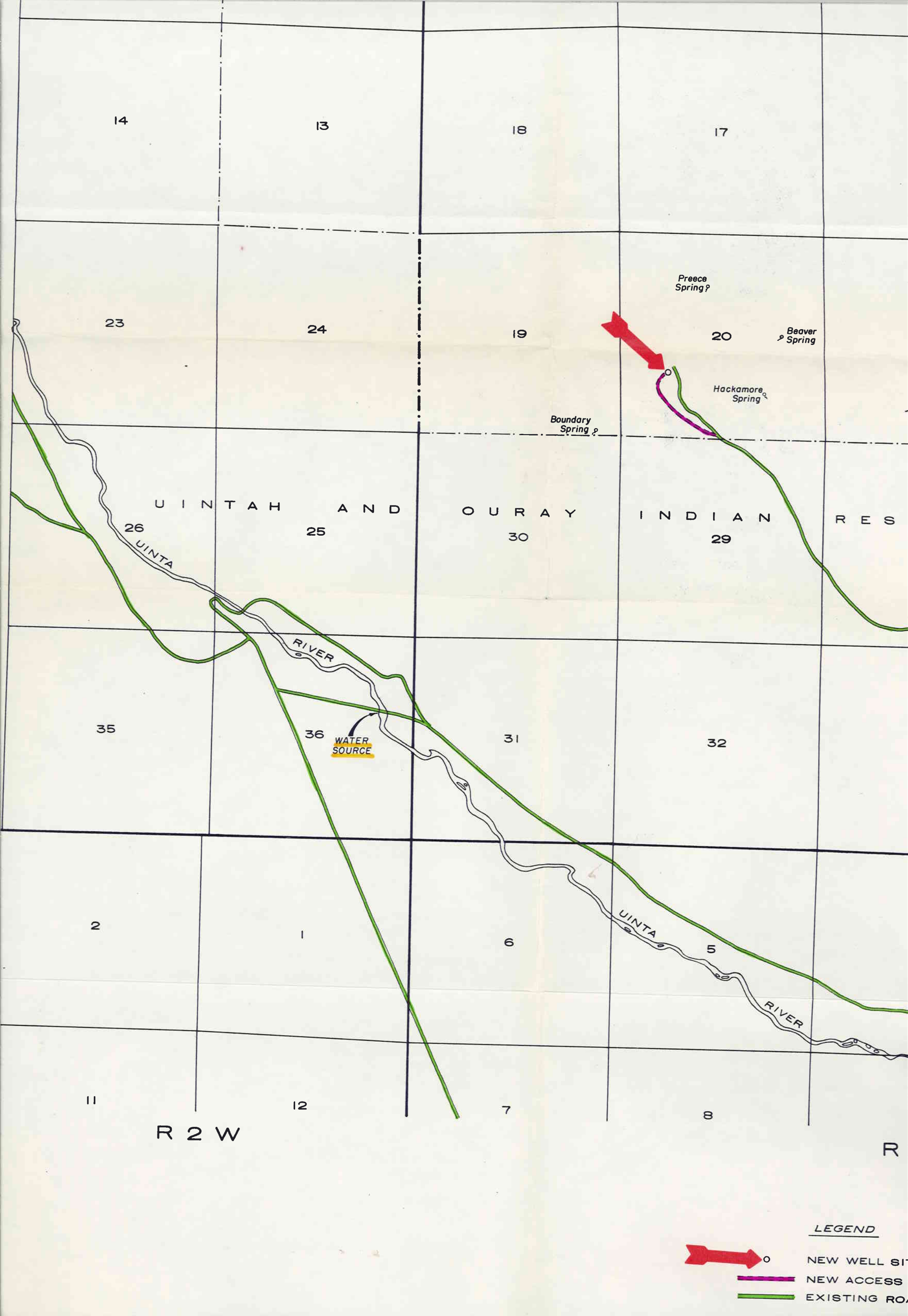
11. Plans for restoration of the surface:

    Upon completion of drilling operations, the disturbed surface area will be restored as near as practical to its original contours. If sufficient top soil is encountered, it will be stockpiled for restoration of surface, and reseeding. All restoration and reseeding will be per instructions of, and to the satisfaction of U. S. Forestry Department; and the Bureau of Indian Affairs if the improved road requires reseeding.

12. Any other information that may be used in evaluating the impact on environment. Include general description of the topography, vegetation, and other aspects of the area:

    The well location is on a low, narrow ridge which runs approximately south southeast. General slope in the immediate area is southeast. About twelve pine trees, mainly Ponderosa, will need to be removed. These range from 15-20" diameter. Ground cover is fairly sparse consisting of Bitter Brush, Mountain Mahogany and Scrub Sage. Removal of vegetation will be limited to the location and access road.

    It is estimated that a maximum 20' cut will be required on the northern corner of the location with maximum 9' fill on southern corner.


14
13
18
17
23
24
19
20
Preece Spring
Beaver Spring
Hackamore Spring
Boundary Spring
UINTAH AND OURAY INDIAN RES
26
25
30
29
UINTA RIVER
35
36
WATER SOURCE
31
32
2
1
6
5
UINTA RIVER
11
12
7
8
R 2 W
R
LEGEND
NEW WELL SI
NEW ACCESS
EXISTING RO

17 16 15 14

T 2 N

Preece Spring

20 Beaver Spring 21 22 23

Hackamore Spring

FOREST BOUNDARY

INDIAN RESERVATION

29 28 27 26

Upper Cart Hollow Springs

32 33 34 35

UINTA RIVER

5 4 3 2

DUCHESNE CO.
UINTAH CO.

T 1 N

Cart Hollow Spring

TO MAIN ACCESS MAP

8 9 10 11

R 1 W

LEGEND

NEW WELL SITE

NEW ACCESS ROAD

EXISTING ROAD

Atlantic Richfield Company
ROCKY MOUNTAIN DISTRICT
DENVER, COLORADO

NO. 1 CART HOLLOW

DUCHESNE COUNTY, UTAH

DRAFTED BY _____ CHECKED BY J. W. H. DATE 9-27-74

SCALE: 1" = 2000' REVISED _____

AtlanticRichfieldC[redacted]any

T[redacted]mittal/Call Slip

To

Mr. Burchell

Location

Transmittal

- ☐ Approval
- ☐ Handling
- ☐ Mailing
- ☐ Note & return
- ☐ Please see me
- ☐ Your comment
- ☐ Your files
- ☐ Your information
- ☐ Your recommendation
- ☐ Your signature

Call memo

- ☐ Telephoned
- ☐ Please call
- ☐ Returned your call
- ☐ Will call again
- ☐ _____
- ☐ Came in
- ☐ Waiting to see you
- ☐ Will come back

Time ☐ A.M. ☐ P.M.

Caller

Name

Phone no.

Company

Extension

Message

These are extra copies returned by the U.S.G.S.. Please advise if you would prefer copies without their approval. Our file indicates you received copies of the "Change of Location" dated 10/28/74, so have not enclosed. OK

From

M.E. Brown

Location

Date

AR3B-130

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.: U - 13036

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1. OIL WELL [x] GAS WELL [ ] OTHER

7. UNIT AGREEMENT NAME:

2. NAME OF OPERATOR: Atlantic Richfield Company

8. FARM OR LEASE NAME: Cart Hollow

3. ADDRESS OF OPERATOR: 501 Lincoln Tower Building

9. WELL NO.: 1

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: NW SW - 1581' f/South & 1258' f/West line Sec. 20

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 20-2N-1W, USB&M

14. PERMIT NO.: Appd. Mr. Guynn, 10/17/74

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 7772' GR

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other) Location Change			[x]
(Other)			[ ]	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

Application was made for the well to be drilled 1623' f/South line and 1202' f/West line of Section 20-2N-1W, within the boundary of Ashley National Forest.

Upon the initial inspection, the location was approved 1623' f/South line and 1272' f/West line of Section 20-2N-1W. A subsequent inspection was made, and the above location was mutually agreed to by Mr. Bill Sims, U.S.Forestry Service, and Mr. Bill Fiant, United States Geological Survey. Certified Location Plat attached. Also attached is plat of location site.

APPROVED BY DIVISION OF
OIL & GAS CONSERVATION

DATE 11-14-74

BY C. B. Feight

Revised Location -

18. I hereby certify that the foregoing is true and correct

SIGNED W. A. Walther, Jr. TITLE Dist. Prod. & Drlg. Supt. DATE 10/28/74

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

November 14, 1974

Atlantic Richfield Company
501 Lincoln Tower Building
Denver, Colorado 80203

Re: Well No. Cart Hollow #1
Sec. 20, T. 2 N, R. 1 W, USM
Duchesne County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted in accordance with Rule C-3(c), General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

PAUL W. BURCHELL - Chief Petroleum Engineer
HOME: 277-2890
OFFICE: 328-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountere d during drilling.

The API number assigned to this well is 43-013-30350.

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

CLEON B. FEIGHT
DIRECTOR

CBF:sw

cc: U.S. Geological Survey

Form approved.
Budget Bureau No. 42-R356.5.

LAND OFFICE
LEASE NUMBER U - 13036
UNIT

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah *County* Duchesne *Field* Exploratory Well

The following is a correct report of operations and production (including drilling and producing wells) for the month of December, 19 74, Cart Hollow, Well #1

Agent's address 501 Lincoln Tower Bldg., 1860 Lincoln St., Denver, Colorado 80203 *Company* Atlantic Richfield Company

Phone A/C 303 266-2463 *Signed* W A Walthew Jr

Agent's title Dist. Prod. & Drlg. Supt.

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NW SW Sec.20	2N	1W	1	-	Operations for month of December 1974, per attached daily reports.					

NOTE.—There were none runs or sales of oil; none M cu. ft. of gas sold; none runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

CART HOLLOW #1
NW SW Sec. 20-2N-1W
Duchesne County, Utah

12-6-74		MI-RURT.
7	44'	Drlg; Spudded 17½" hole @ 9:00 PM 12-6-74.
8	136	Drlg.
9	140	Drlg & Reaming boulders. Mud-Gel-Water. 1-3/4 @ 112'
10	190	Drlg, twisted off 4½" DP, Rec. fish in 9½ Hrs. Mud - Gelled Wtr. Bit #2.
11	420	Drlg Boulders. 2 @ 403' Mud: 9.3#, Vis-60. Bit #3 - 17½"
12	508	Reaming boulders at 160' - 2-3/4 @ 508' - Attempted run 13-3/8" OD Csg, hit bridge @ 105' - Pulled 13-3/8" - Re-ran bit, reamed 65' to 160'
~~13~~	~~508~~	
13	508	Running 13-3/8" Csg. Reamed f/160' to 508' Cond. hole. Twisted off DP 33' below surface. Fished & rec. in 2-3/4 Hrs. Pulled bit. RU to run 13-3/8.
14	508	WOC. NU BOP. Finished running 13 jts 13-3/8"OD 48# H-40 casing w/ guide shoe & baffle collar, set casing @ 508' KB. Cmtd w/ 600 sx reg cmt w/ 3% $CaCl_2$. Plug down 9:15 am 12/13. Cemant circ'd. WOC 8 hrs. Cut off csg & started nip'g up.
15	508	Drlg shoe joint. BO BOP. Tested blind rams @ 1000#, O.K. Ran in hole w/ BH assy, tested pipe rams, casing @ 1000# O.K.. Tag cmt @ 467'.
16	820	Drilling. 3-3/4 @ 612, 4-1/4 @ 701 & 795'. Mud: 8.8#, 35 vis, 60+WL, 3/32 FC, Ph 13, Pl 5, Yld 8. 42 RPM, 20,000#. B #4, HTC, WD7, 508-612', 104' in 9½ hrs. B #5, Smith, F4J, in @ 612, 208' in 8-3/4 hrs.
17	1303	Drlg boulders & clay 4-1/2 @ 890, 5 @ 1016, 1190, 1205 & 1298'. 42 RPM, 20M#. Mud: 8.7#, 33 vis, 32 WL, 2/32 FC, Ph 10.5. B #5, Smith, F4J, in @ 612, 691' in 28-3/4 hrs.
18	1528	Drlg boulders & quartz 5 @ 1294 & 1362, 4-1/2 @ 1450. Mud: 8.7#, 36 vis, 40 WL, 2/32 FC, Ph 10.5. 42 RPM, 20M#. B #5 Smith, F4J, 612-1362', 750' in 33 hrs. B #6, Smith, F4J, in @ 1362 & drlg.
19	1665	Drlg rose & white quartz. 4-1/2 @ 1553 & 1640. Mud: 8.8#, 36 vis, 25 WL, 2/32 FC, Sd tr, Ph 10.5, pl 5, yld 5. 42 RPM, 25M#. B #6, Smith, F4J, 1362-1553', 191' in 19 hrs. B #7, Smith, F-6, in @ 1553, 112' in 15 hrs.
20	1830	Drlg quartz & hd pyrite. 4-1/2 @ 1790'. Mud: 8.9#, 35 vis, 20 WL, 2/32 FC, .25% sand, Ph 10.5, pl 7, yld 4, sol 4%. 42 RPM, 25M#. B #7, Smith F-6, 1553-1825', 272' in 33-3/4 hrs. B #8, Smith, F-57. 1770-75', 700 units of gas in hard pyrite.
21	2050	Drlg quartz & hd pyrite. 4-1/2 @ 1890'. Mud: 8.8#, 30 vis, 20.6 WL, 2/32 FC, Sand-tr., Ph 15. B #8, Smith, F-57, in @ 1825' & drlg, 225' in 24-1/4 hrs. Sli drlg brk 1932-50', no shows.

CART HOLLOW #1
NW SW Sec. 20-2N-1W
Duchesne County, Utah

12/22/74	2220	Trip out, hard quartz. 4-1/4 @ 2060, 4-1/2 @ 2220. Mud: 8.9#, 37 vis, 17.6 WL, 2/32 FC, sand-nil, Ph 10.5. B #8, Smith, F-57, in @ 1825 & pulling 395' in 44.5 hrs.
23	2430	Drlg quartz & pyrite. Mud: 8.9#, 41 vis, 24 WL, 2/32 FC, sand- nil, Ph 11.5. B #9, Smith, E-896, in @ 2220 & drlg, 210' in 20 hrs.
24	2517	Drlg dolo & chert, hit @ 2490'. 4-1/4 @ 2430, 4-1/2 @ 2490. Mud: 8.9#, 39 vis, 22 WL, 2/32 FC, Ph 11.5. B #9, Smith, E-896, 2220-2490', 270' in 28.5 hrs. B #10, HTC, J-77, in @ 2490, 27' in 6 hrs.
25	2629	Drlg dolo & chert. 4-1/2 @ 2603. Mud: 8.9#, 36 vis, 20 WL, 2/32 FC, sand-nil Ph 11.5.. 42 RPM, 40M#. B #10, HTC, J-77, 2490-2603, 113' in 21.5 hrs. B #11, Smith, E-896, in @ 2603 & drlg.
26	2750	Trip in. Sand & some dolo & chert. 4-3/4 @ 2750. Mud: 8.9#, 37 vis, 15 WL, 2/32 FC, .25% sand, Ph 10.5, 4% solids. 42 RPM, 40M#. B #11, Smith, E-896, 2603-2750', 147' in 20.5 hrs. B #12, Smith, F-57 going in.
27	2928	Drlg sd & lime Mud: 8.9#, 37 vis, 13.2 WL, 2/32 FC, Sand-trace, Ph 11. 42 RPM, 40M#. B #12, Smith, F-57, in @ 2750', 178' in 23 hrs.
28	3045	Drlg sand, chert & lime. 4-1/2 @ 3016 Mud: 9.1#, 36 vis, 15.2 WL 2/32 FC, .25% sand, Ph 11. 42 RPM, 40M#. B #12, Smith, F-57, 2750-3016, 266' in 36-1/2 hrs. B #13, HTC, J-77, in @ 3016, 29' in 5 hrs.
29	3207	Drlg sand, quartz & lime Mud: 9.1#, 36 vis, 14.8 WL, 2/32 FC, .5% sand, Ph 11.5. 42 RPM, 40M#. B #13, HTC, J-77, in @ 3016, 191' in 29 hrs.
30	3391	Drlg sd, lime & dole.. Mud: 8.9#, 36 vis, 16 WL, 2/32 FC, sand-nil, Ph 11.5 42 RPM, 40M#. B #13, HTC, J-77, in @ 3016, 375' in 52-1/2 hrs.
31	3567	Drlg limestone w/ sand. Mud: 8.9#, 36 vis, 14.8 WL, 2/32 FC, .12½% sand, Ph 11.5. B #13, HTC, J-77, in @ 3016', 551' in 76-1/2 hrs.
1/1/75	3662	Drilling 4-1/2 @ 3589 Mud: 9.0#, 39 vis, 15 WL, 2/32 FC, .125% sand, Ph 11.5. B #13, HTC, J-77, 3016-3589, 573' in 79.5 hrs. B #14, Smith, F-5 in @ 3589, 73' in 9.5 hrs.
2	3828	Drlg li & dolo w/ scattered white sand stringers. Mud: 9.0#, 36 vis, 14.8 WL, 2/32 FC, .25% sand, Ph 11.5. 42 RPM, 40M#, B #14, Smith, F-5 in @ 3589, 239' in 33.5 hrs.
3	3961	Drlg li & shale Mud: 9.1#, vis 39, 13.2 WL, 2/32 FC, Sd-nil, Ph 11 B #14, Smith, F-5, in @ 3589 & drlg, 372' in 57-1/2 hrs.

The above is correct

Form approved.
Budget Bureau No. 42-R356.5.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE
LEASE NUMBER U - 13036
UNIT

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah *County* Duchesne *Field* Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of January, 19 75, Cart Hollow, Well #1

Agent's address 501 Lincoln Tower Bldg. *Company* Atlantic Richfield Company

1860 Lincoln St., Denver, Colorado 80203 *Signed* W. A. Walthew Jr.

Phone A/C 303 266-2463 *Agent's title* Dist. Prod. & Drlg. Supt.

Sec. and ¼ of ¼	Twp.	Range	Well No.	Days Produced	Barrels of Oil	Gravity	Cu. Ft. of Gas (In thousands)	Gallons of Gasoline Recovered	Barrels of Water (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NW SW Sec.20	2N	1W	1	-	Operations for month of January 1975, and to when well P & A, per attached daily reports.					February 5th,

NOTE.—There were none runs or sales of oil; none M cu. ft. of gas sold; none runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

16—25766-9 U. S. GOVERNMENT PRINTING OFFICE

GPO 837-082

CART HOLLOW, Well #1

1/1/75	3662	Drilling 4-1/2 @ 3589 Mud: 9.0#, 39 vis, 15 WL, 2/32 FC, .125% sand Ph 11.5. B #13, HTC, J-77, 3016-3589, 573' in 79.5 hrs. B #14, Smith, F-5 in @ 3589, 73' in 9.5 hrs.
1/2/75	3828	Drlg Li & dolo w/ scattered white sand stringers. Mud: 9.0#, 36 vis, 14.8 WL, 2/32 FC, .25% sand, Ph 11.5. 42 RPM, 40M#, B #14, Smith, F-5 in @ 3589, 239' in 33.5 hrs.
1/3/75	3961	Drlg li & Sh Mud: 9.1#, vis 39, 13.2 WL, 2/32 FC, Sd-nil, Ph 11 B #14, Smith, F-5, in @ 3589 & drlg, 372' in 57-1/2 hrs.
1/4/75	4085	Drlg li & sh Mud: 9.1#, 37 vis, 14.8 WL, 2/32 FC, .25% sand, 11.5 Ph. 42 RPM, 40M#. B #14, Smith, F-5, in @ 3589 & drlg. 496' in 81.5 hrs.
1/5/75	4154	Li & sh, working stuck pipe, stuck 4:45 am 1/5/75. 4-1/2 @ 4142'. Mud: 9.3#, 39 vis, 13 WL, 2/32 FC, sand-tr., Ph 11.5. 42 RPM, 40M#. B #14, Smith, F-5, 3589-4142, 553' in 95-1/2 hrs. B #15, HTC, J-33, in @ 4142, 12' in 2-1/4 hrs.
1/6/75	4230	Drlg sd, sh & li 6 hrs work & free pipe. Mud: 9#, 38 vis, 14 WL, 2/32 FC, Sd- tr., 11.5 Ph. 40 RPM, 35M#. B #15, HTC, J-33, in @ 4142, 88' in 20-1/4 hrs.
1/7/75	4303	Drlg li & sd. Mud: 9#, 36 vis, 13.2 WL, 2/32 FC, .25% sand, 11.5 Ph, 5% solids. 35 RPM, 35M#. B #15, HTC, J-33, in @ 4142' & drlg, 161' in 41 hr.
1/8/75	4330	Sand & lime, going in f/ DST #1, 4230-4330'. 4-1/4 @ 4330'. Mud: 9.0#, 35 vis, 13.5 WL, 2/32 FC, .25% sand, Ph 11.5. 35 RPM, 35M#. B #15, HTC, J-33, 4142-4330', 188' in 47 hrs.
1/9/75	4330	Trip out w/ fishing tools f/ 507', fishing f/ slips. DST 4230-4330', 3/4" BHC. 17 min pre-flow, opened dead, inc to weak blow. SI 47 min.. 2nd open 45 min, dead, inc to weak blow. SI 45 min.. Final flow 30 min., dead. 60 min FSIP. Rec'd 50' drlg mud. IH 2038#. 17 min IF 85-97#, 47 min ISIP 962#, 45 min 2nd flow 97-97#, 45 min 2nd SI 798#, 30 min FF 97-97#, 60 min FSIP 784#. Sampler: 0#, 2250 cc mud, Res 1.0 ohm @ 58°, Cl 6000 ppm, BHT 80°. Breaking down tail pipe & dropped slips in hole. Ran basket, started milling @ 485', trip out @ 500' & rec'd 3 chunks cement. Reran tools. (Later report - rec'd slips).
1/10/75	4397	Li & sand, trip in. Pld fishing tools & rec'd slips & 1 handle. Ran B #16. Mud: 8.8#, 35 vis, 16 WL, 2/32 FC, sand-tr., Ph 10.5 B #16, HTC, WTR, 4330-4397', 67' in 12 hrs. GIH w/ B #17, RR #15, HTC, J-33
1/11/75	4505	Li, sand & anhydrite, changing pump head. Mud: 8.8#, 38 vis, WL 18, 2/32 FC, Sand-tr., Ph 10.5.. 40 RPM, 42M#. B #17, RR #15, HTC, J-33, in @ 4397 & drlg, 108' in 16-3/4 hrs.
1/12/75	4666	Drlg li, sand & chert. Mud: 8.8#, 37 vis, 25 WL, 2/32 FC, .5% sand, 11.5 PH, Pl 9, Yld 14, 3% solids. 40 RPM, 42M#. B #17, RR #15, HTC, J-33, in @ 4397', 269' in 39-1/2 hrs.
1/13/75	4780	Sand & red shale, trip in, building volume. 5-1/2° @ 4780'. Mud: 8.8#, 36 vis, 12.4 WL, 2/32 FC, Sand tr., Ph 11. 40 RPM, 42M#. B #17, RR #15, HTC J-33, 4397-4780, 283' in 54 hrs (total 471' in 101 hrs).. GIH w/#18, Smith, F-4
1/14/75	4963	Drlg sd & lime Mud: 8.8#, 35 vis, 22.4 WL, 2/32 FC, Sand-tr., 11.5 Ph 40 RPM, 42M#. B #18, Smith, F-4, in @ 4780 & drlg, 183' in 20.5 hrs.
1/15/75	5182	Sand, sh & dolo, circulating for samples. Drlg break f/ 9' to 16'-/hr @ 5089' Mud: 8.9#, 33 vis, 18.4 WL, 2/32 FC, .25% sand, Ph 11. 42 RPM, 40M#. B #18, Smith, F-4, in @ 4780', 402' in 44-1/4 hrs.

CART HOLLOW, Well #1

1/16/75	5182	Pulling DST #2, 5095-5182', 9 stands out. DST #2, 5095-5182', 3/4" BHC, 1/4" TC. IF 26 min, sli to fair blow, tool failed to close. ISIP 45 min. 2nd Flow, 87 min, wanted 45 min & tool failed to close, sli to fair blow. 2nd SI 30 min, tried for 45 min.. Final flow 30 min, sli blow. Final SI 60 min.. Mud: 9.0#, 34 vis, 18 WL, 2/32 FC, .125% sand, Ph 11. B #18, Smith, F-4, 4780-5182', 402' in 44-1/4 hrs.
1/17/75	5282	Drlg sd & shale 13-3/4 @ 5150, 14 @ 5254 Mud: 9.0#, 37 vis, 18 WL, 2/32 FC, .12½% sand, Ph 11, solids 4%. 42 RPM, 40M#. B #19, RR #18, Smith, F-4, in @ 5182, 100' in 12-3/4 hrs. DST #2, 5095-5182', recovered: 540' WCDM Res 1.85 @ 49° 500 ppm Cl 270' MCW .9 @ 50° 1800 2170' sli GCW .7 @ 52° 3500 Sampler: .15 CFG, 2160 cc wtr, res .7 @ 52°, 3500 ppm . Pit mud: 2.2 @ 46°, 3500 ppm. BHT 102°. IHMP 2416#, 26 min IF 50-205#, 45 min ISIP 1902#, 87 min 2nd flow 428-816#, 30 min 2nd SI 1650#, 30 min FF 1078-1184#, 60 min FSIP 1640#, FHMP 2407#.
1/18/75	5454	Drlg sd, sh & silt. 16 @ 5340, 16½ @ 5443. Mud: 9#, 36 vis, 40 WL, 2/32 FC .5% sand, Ph 9.5, solids 6%. 42 RPM, 40M#. B #19, RR #18, Smith F-4, in @ 5182 & drlg, 272' in 35-1/2 hrs.
1/19/75	5601	Drlg siltstone & anhydrite 20 @ 5525 Mud: 8.9#, 30 vis, 22.6 WL, 2/32 FC Sand-tr., Ph 11.0, solids 4%. 42 RPM, 35M#. B #19, RR #18, Smith, F-4, in @ 5182, 419' in 58-1/4 hrs.
1/20/75	5735	Drlg sd & sh 22 @ 5625, misrun @ 5725 Mud: 9.1#, 35 vis, 16 WL, 2/32 FC .25% sand, Ph 11.5. 40 RPM, 35M#. B #19, RR #18, Smith, F-4, in @ 5182, 553' in 80-3/4 hrs.
1/21/75	5807	Sd, sh & dolo, prep to log. 5-1/2 @ 4780, 10 @ 4868, 10 @ 4962, 10 @ 5057, 13-3/4 @ 5150, 24 @ 5755'. Mud: 9.1#, 50 vis, 11.6 WL, 2/32 FC, Sand-nil, Ph 12. 40 RPM, 25M#. B #19, RR #18, Smith, F-4, in @ 5152-5807, 625' in 94-1/2 hrs.
1/22/75	5819	Drlg sd & shale. Ran DM & Dual Ind. log 5807-508' Mud: 9.1#, 43 vis, 11.6 WL, 2/32 FC, Sand-nil, Ph 12. 42 RPM, 25M#. B #20, HTC, XV, in @ 5807 & drlg, 12' in 3 hrs. Schlumberger says BH loc (5807') is 528.7' north & 239.1' west of point of origin (600') Per Charley Alcock 12:50 pm. 1/22/75.
1/23/75	5914	Drlg sd & sh. 26° @ 5838, 5870 & 5902. Mud: 9.1#, 36 vis, 12.4 WL, 2/32 FC, .25% sand, Ph 11.5. 40 RPM, 32M# (inc f/22M# @ 5838'. B #20, HTC, XV, in @ 5807, 107' in 24-1/2 hrs.
1/24/75	5966	GIH after trip to rec HOWCO line. 27 @ 5934, 28 @ 5966. Mud: 9.0#, 36 vis, 14 WL, 2/32 FC, .125 Sd, Ph 11. 40 RPM, 25-30M#. B #20, HTC, XV, 5807-5949, 142' in 34.5 hrs. B #21, Smith, F-45, in @ 5949, 17' in 3.5 hrs.

CART HOLLOW, Well #1

1/25/75	6034	Drilling sd, dolo & chert 27° @ 6025 Mud: 9.1#, 33 vis, 15.2 WL, 2/32 FC, .12½% Sand, Ph 11.5 40 RPM, 25M#. B #21, Smith, F-45, in @ 5949, 85' in 23½ hrs. At 5986, 6-7' drlg brk. at 6023, 6 unit kick on mud logger.
1/26/75	6108	Circ'g f/ DST, sand, shale & dolo. 24-1/2 @ 6092'. Mud: 9.1#, 33 vis, 12.4 WL, 2/32 FC, sand-tr., 11.5 Ph. 42 RPM, 30M#. B #21, Smith, F-45, in @ 5949', 159' in 39-1/2 hrs. Drlg brk @ 6086', good cut & fluor.
1/27/75	6108	Setting packer for DST #3, 6088-6108', Park City ??.. Mud: 9.2#, 51 vis, 12.4 WL, 2/32 FC, sand-trace, Ph 12
1/28/75	6131	Coring dolo., core #1, started @ 6108'. DST #3, 6088-6108', 15/16" BHC, 1/4" surf needle valve. 5 minpre-flow, air blow under 1/2 to 2" water. Attempted 45 min ISI, blow inc., cycled tool; 45 min 2nd flow, air blow under 12" water; att 45 min 2nd SI; 30 min final flow, air blow under 12" water; Att 60 min FSIP. Rec'd 1760' fluid: 1320' MW, res 1.4 @ 52°, 100 ppm Cl; 440' clear water, res 3.9 @ 56°, 100 ppm Cl.. Sampler: 2410 cc water, less than 100 ppm Cl. Pit mud 200 ppm Cl. NO SHOWS. BHT 101° F. No shut in pressures, "J" pin broken & tool malfunctioned. IHP 2849#, FHP 2840#; Flow pressures: 1st 85-132#, 2nd 132-189#; 3rd 208-303#, 4th 303-579#, 5th 579-645#; 6th 645-759#.. Mud: 9.1#, 42 vis, 12.4 WL, 2/32 FC, Sand-tr., Ph 12. B #22, Chris'n MC-23, in @ 6108', cored 23' in 6-3/4 hrs. 42 RPM, 20M#.
1/29/75	6192	Drilling dolo & chert Core #1, 6108-6148', cut 40', rec'd 33' dolomite, no shows. Bbbl jammed. Mud: 9.2#, 37 vis, 10.8 WL, 2/32 FC, .25% sand, Ph 11.5. 40 RPM, 40M#. B #22, Chris'n, MC-23, cored 6108-48', 40' in 13-3/4 hrs. B #23, Smith, F-4, in @ 6148 & drlg. 44' in 7 hrs.
1/30/75	6235	Running DST #4, 6211-6235'. 21° @ 6210'. Mud: 9#, 39 vis, 12.8 WL, 2/32 FC, Sand - tr., Ph 11.5. 40 RPM, 40M#. B #23, Smith, F-4, 6148-6235', 87' in 10-1/2 hrs. DST #4, 6211-6235'. Set pkr @ 5:44 a.m., Opened tool 5:57 am 1/30/75. 6 min pre-flow, blow 4" to 12" immed & thru pre-flow. 46 min ISI. 2nd open, opened w/blow f/4" to 12" in 1 min.. Still open on 2nd open.
1/31/75	6361	Drilling 31° @ 6290'. DST #4, Cont'd, 6211-6235', 5/8" BH & 1/4" SC, no WC. 2nd Flow, 55 min w/ air blow under 12" wtr thruout. 45 min 2nd SI, Final flow, 33 min, open w/ blow under 1" water, inc to blow under 8" @ end, no GTS. 60 min FSI.. Rec'd 6000' fluid: 540' MCW, res 1.3 @ 54°, 750 ppm Cl.. 5460' water, res 4.2 @ 58° w/50 ppm Cl. Sampler: 2480 cc water, res 4.1 @ 59°, 50 ppm Cl. Recovered mud filtrate 1.2 @ 62°, 750 ppm Cl. Pit mud filtrate 1.0 @ 59°, .97 @ 60°, 750 ppm. IH & FH 2865#, 6 min IF 278-777#, 46 min ISI 2611#, 55 min 2nd open 847-2442#, 45 min 2nd SI 2611#, 33 min FF 2442-2574#, 60 min FSIP 2597#. BHT 120°. Mud: 9.1#, 38 vis, 12.8 WL, 2/32 FC, sand-tr., Ph 10.5.. 42 RPM, 45M#. Bit #24, RR #23, Smith, F-4, in @ 6235, 126' in 8-3/4 hrs.

CART HOLLOW, Well #1

2/1/75	6382	Prep release pkr on DST #5, 6330-82'. DST #5, 6330-82', open tool 6:33 a.m. Good blow, 0 to btm bucket, immediately, NGTS. Tool would not close, open 1 hr 15 min. Prep to pull. 32° @ 6368'. Mud: 9.0#, 50 vis, 10.4 WL, 2/32 FC, .5% sand, Ph 12.. 42 RPM, 45M#. B #24, RR #23, Smith, F-4, 6235-6382', 147' in 10 hrs.
2/2/75	6544	Taking straight hole test. 33° @ 6425'. Worked free DST #5, 6330-82', pulled. Rec'd 6000' fluid: 1080' MCW, res 1.7 @ 50°, 750 ppm; 4920' water, res 4.6 @ 106°, 75 ppm. Sampler: 2480 cc water, res 3.8 @ 72°, 75 ppm. Pit mud filtrate, 1.5 @ 56°, 1400 ppm. BHT 120°. IHMP 2922#, FHMP 2912#, IF 974# to 2649# in 75 min. No SI, tool did not work. Mud: 9.1#, 41 vis, 10.4 WL, 2/32 FC, .5% sand, Ph 12. 42 RPM, 45M#. B #25, RR #23 & 24, Smith, F-4, in @ 6382' & drlg, 162' in 10-1/4 hrs.
2/3/75	6674	Logging 35° @ 6557, 37° @ 6620 Ran CNL & FDC 6673-4000', DM 6673-5800', WLTD 6673'. Now running Dual Ind-Laterolog. DM off scale at 36°, believe 200' off TD. Mud: 9.1#, 50 vis, 10.2 WL, 2/32 FC, .5% sand, Ph 11.5. 42 RPM, 45M#. B #25, RR #23 & 24, Smith, F-4, 6382-6674, 292' in 17-3/4 hrs.
2/4/75	6674	WOO. Ran Dual Ind. Laterolog T.D.-4000'. On bank w/drill string. Mud: 9.1#, 60 vis, 10.2 WL, 2/32 FC, .5% sand, Ph 11.5.
2/5/75	6674	TD - Prep set cmt plug in btm surf casing. Spotted 4 cmt plugs as follows: 50 sx 6450-6300', 50 sx 5900-5750', 50 sx 4750-4600' & 35 sx 1900-1800'.
2/6/75	6674	TD - Spot 80 sk cmt plug 525-450', 20 sk cmt plug 20' to surface with regulation marker. Rig released 8 p.m. 2/5/75. COMPLETED P & A DRY HOLE 2/5/75

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.: U - 13036

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1. OIL WELL ☐ GAS WELL ☐ OTHER Dry Hole

7. UNIT AGREEMENT NAME:

2. NAME OF OPERATOR: Atlantic Richfield Company

8. FARM OR LEASE NAME: Cart Hollow

3. ADDRESS OF OPERATOR: 501 Lincoln Tower Bldg., 1860 Lincoln St., Denver, Colo. 80203

9. WELL NO.: 1

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: NW SW - 1581' f/South & 1258' f/West lines Sec. 20

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 20-2N-1W, USB&M

14. PERMIT NO. 43-013-30350 Appd. Mr. Guynn 10/17/74

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 7772' GR

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	X	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

Drilled to T.D. 6674' with no commercial show of hydrocarbons. Ran logs - Tops: Ankareh 4691', Thaynes 5093', Woodside 5180', Park City 5914', and Weber 6496'. Propose to plug and abandon as follows: Spot 50 sack cement plugs 6450-6300', 5900-5750', 4750-4600', 35 sack cement plug 1900-1800', 80 sack cement plug across bottom of casing 525-450', and 20 sack cement plug in surface 26' to GL w/ regulation marker, clean and restore location and access road(s). Intervals between cement plugs to be filled with 9.1# gel-chem mud.

Confirming verbal approval Mr. Ed Guynn, U.S.G.S., and Mr. E. E. Sanders, AMCO, 2/4/75.

2cc - Mr. C. B. Feight, Director
Utah Div. O & G Cons.

18. I hereby certify that the foregoing is true and correct

SIGNED W. A. Walther, Jr. TITLE Dist. Prod. & Drlg. Supt. DATE 2/5/75

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

ORAL APPROVAL TO PLUG AND ABANDON WELL

PI 7

Operator Atlantic-Richfield Co. Representative Conn Fanders

Well No. Carl Heilbu #1 Located NW ¼ SW ¼ Sec. 20 Twp 2N Range 1W USM

Lease No. U 13036 Field W/C Duchesne Co State Utah

Unit Name and Required Depth — Base of fresh water sands

T.D. 6674' Size hole and Fill Per Sack 7⅞" 508' to TD' Mud Weight and Top 9.1 #/gal. '

Casing Size	Set At	Top of Cement	To Be Pulled	Plugging Requirements From	To	Sacks Cement
13⅜	508'	Circ cmt.		20 ft plug @ sur w/ reg marker 525'	450'	75' X Shoe

Formation	Top	Base	Shows	From	To	Sacks Cement
Weber	6412		¢-wtr No Shows	6450'	6300'	150' - 50 SX
(Phosphoria) Park City	5890		¢	5900'	5750'	150' - 50 SX
Woodside	5780		Shale			
Thaye	5242		Lm ¢			
Ankarra	4530'			4750	4600'	150' - 50 SX
Unconformity to Sur fr			4530	1900	1800	100' - 30 SX

Remarks

DST's, lost circulation zones, water zones, etc. Encountered fresh wtr.

5-DSTs DST #1 4230-4330 Rec mud; DST #2 5045-5182

Rec 3000' wtr, small gas show; DST #3 6088-6108 Rec ?

DST #4: 6211-6235' Rec 6000' wtr (fresh - 50-75 ppm Cl) DST #5: 6330-6382 Rec 6000 fresh

Approved by [signature] Date 2/4/75 Time 1130 ~~A.M.~~ P.M.

a) Mud Pit - Small vol fluid in pit - 4 strand fence
b) Fill in rathole & mouse hole
c) Pick up trash & debris.
d) Wtr bar. road as need for erosion

✓ Oil & Gas, State of Ut
WRD
Operator.

cc: USFS, Vernal & Roosevelt, BIA, BLM, Vernal,

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.: U - 13036

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: -

1. OIL WELL ☐ GAS WELL ☐ OTHER Dry Hole

7. UNIT AGREEMENT NAME: -

2. NAME OF OPERATOR: Atlantic Richfield Company

8. FARM OR LEASE NAME: Cart Hollow

3. ADDRESS OF OPERATOR: 501 Lincoln Tower Bldg., 1860 Lincoln St., Denver, Colo. 80203

9. WELL NO.: 1

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: NW SW - Sec. 20 - 1581' f/South & 1258' f/West lines

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 20-2N-1W, USB&M

14. PERMIT NO. 43-013-30350
Appd Mr. Guynn, 10/17/74

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 7772' GR

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	X
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			
(Other)							

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

TD - 6674' - Spotted cement plugs as follows:

50 sacks 6450-6300'
50 sacks 5900-5750'
50 sacks 4750-4600'
35 sacks 1900-1800'
80 sacks 525 - 450' (Across btm of surface set at 508')
20 sacks 20 - Surface with regulation marker.
COMPLETED P & A DRY HOLE 2/5/75.

Location to be cleaned and restored, also roads, to satisfaction of U.S.G.S. and Forestry Service. When completed, a "Subsequent Report" will be submitted.

18. I hereby certify that the foregoing is true and correct

SIGNED _____ TITLE Dist. Prod. & Drlg. Supt. DATE 2/6/75

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.: U - 13036

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: --

1. OIL WELL ☐ GAS WELL ☐ OTHER Dry Hole

7. UNIT AGREEMENT NAME: --

2. NAME OF OPERATOR: Atlantic Richfield Company

8. FARM OR LEASE NAME: Cart Hollow

3. ADDRESS OF OPERATOR: 501 Lincoln Tower Bldg., 1860 Lincoln St., Denver, Colo. 80203

9. WELL NO.: 1

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: NW SW - Section 20 - 1581' f/South & 1258' f/West lines

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Section 20-T2N-R1W, USB&M

14. PERMIT NO. ~~43-013-30350~~ appd Mr. Guynn, 10/17/74

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 7772' GR

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

16. **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other) Interim P & A			X
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Interim Report Until Final Clean-up Completed:

On 2/24/75 and 2/25/75, filled rathole and fenced cellar and reserve pit and picked up trash. Also restored fence across gap in forestry boundary fence where new road passed through.

We propose to leave the road and well site in this condition until Spring 1975, as soon as weather permits surface restoration according to the Conditions of Approval.

18. I hereby certify that the foregoing is true and correct

SIGNED B. J. Sartain TITLE Dist. Drlg. Supv. DATE 3/10/75

B. J. Sartain

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Form 9-330
(Rev. 5-63)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*
(See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

PE 12

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☒ Other

b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other

2. NAME OF OPERATOR: Atlantic Richfield Company

3. ADDRESS OF OPERATOR: 501 Lincoln Tower Bldg., 1860 Lincoln St., Denver, Colo. 80203

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface NW SW - 1581' f/South & 1258' f/West line Sec. 20
At top prod. interval reported below
At total depth 996.8' N & 299.2' W f/508'. API #43-013-30350
(Approx: 2577.8' f/South & 958.8' f/West lines Sec. 20

5. LEASE DESIGNATION AND SERIAL NO.: U - 13036
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT AGREEMENT NAME:
8. FARM OR LEASE NAME: Cart Hollow
9. WELL NO.: 1
10. FIELD AND POOL, OR WILDCAT: Wildcat
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 20-2N-1W, USB&M

14. PERMIT NO.	DATE ISSUED	12. COUNTY OR PARISH	13. STATE
Mr. Guynn	10/17/74	Duchesne	Utah

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
12-6-74	2-2-75	P & A 2-5-75	7772'GL; 7784'KB	-

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
6674' Drlr MD 6670' WLTD MD	6483.4' TVD -	Dry hole	→	0 - 6674	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: Dry hole

25. WAS DIRECTIONAL SURVEY MADE: Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN: Dual Ind.-Dual Laterolog; Comp. Neut-Fm. Dens.; Directional; DM

27. WAS WELL CORED: 1 core

28. CASING RECORD (*Report all strings set in well*)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	48#	508' KB	17-1/2"	600 Sx	None

29. LINER RECORD None

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD None

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (*Interval, size and number*): None

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.* PRODUCTION - Dry hole

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
			→				

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
		→				

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*)

TEST WITNESSED BY

35. LIST OF ATTACHMENTS
Dual Ind.-Dual LL; Comp.Neut.-Fm.Dens.; Dir. Logs; ~~Gas analysis; Water Analysis; Utah OGC-8-X~~ DST Charts; Daily Well History

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED ~~W. A. Walther, Jr./m~~ TITLE Dist. Prod. & Drlg. Supt. DATE 4/16/75

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.
If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.
Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.
Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.
Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.
Item 29: *"Sacks Cement":* Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.
Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
DST #1 4230-4330'	Chart	Attached	Daily History 1/9/75
DST #2 5095-5182'	"	"	" " 1/16-17/75
DST #3 6088-6108"	"	"	" " 1/28/75
DST #4 6211-6235'	"	"	" " 1/30-31/75
DST #5 6330-6382'	"	"	" " 2/1-2/75

Core #1 - 6108-6148', bbl jammed. Rec'd 33' dolomite. Has not been analyzed.

Spotted cement plugs as follows:
50 sx 6450-6300'
50 sx 5900-5750'
50 sx 4750-4600'
35 sx 1900-1800'
80 sx 525- 450'
20 sx 20-Surf. w/regulation marker.
COMPLETED P & A DRY HOLE 2/5/75

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
Ankareh	4691'	
Thaynes	5093'	
Woodside	5180'	
Park City	5914'	
Weber	6496'	

APR 17 1975

pI 7

CART HOLLOW #1
NW SW Sec. 20-2N-1W
Duchesne County, Utah

12-6-74		MI-RURT.
7	44'	Drlg; Spudded 17½" hole @ 9:00 PM 12-6-74.
8	136	Drlg.
9	140	Drlg & Reaming boulders. Mud-Gel-Water. 1-3/4 @ 112'
10	190	Drlg, twisted off 4½" DP, Rec. fish in 9½ Hrs. Mud - Gelled Wtr. Bit #2.
11	420	Drlg Boulders. 2 @ 403' Mud: 9.3#, Vis-60. Bit #3 - 17½"
12	508	Reaming boulders at 160' - 2-3/4 @ 508' - Attempted run 13-3/8" OD Csg, hit bridge @ 105' - Pulled 13-3/8" - Re-ran bit, reamed 65' to 160'
~~12~~	~~508~~	
13	508	Running 13-3/8" Csg. Reamed f/160' to 508' Cond. hole. Twisted off DP 33' below surface. Fished & rec. in 2-3/4 Hrs. Pulled bit. RU to run 13-3/8.
14	508	WOC. NU BOP. Finished running 13 jts 13-3/8"OD 48# H-40 casing w/ guide shoe & baffle collar, set casing @ 508' KB. Cmtd w/ 600 sx reg cmt w/ 3% $CaCl_2$. Plug down 9:15 am 12/13. Cement circ'd. WOC 8 hrs. Cut off csg & started nip'g up.
15	508	Drlg shoe joint. BO BOP. Tested blind rams @ 1000#, O.K. Ran in hole w/ BH assy, tested pipe rams, casing @ 1000# O.K.. Tag cmt @ 467'.
16	820	Drilling. 3-3/4 @ 612, 4-1/4 @ 701 & 795'. Mud: 8.8#, 35 vis, 60+WL, 3/32 FC, Ph 13, Pl 5, Yld 8. 42 RPM, 20,000#. B #4, HTC, WD7, 508-612', 104' in 9½ hrs. B #5, Smith, F4J, in @ 612, 208' in 8-3/4 hrs.
17	1303	Drlg boulders & clay 4-1/2 @ 890, 5 @ 1016, 1190, 1205 & 1298'. 42 RPM, 20M#. Mud: 8.7#, 33 vis, 32 WL, 2/32 FC, Ph 10.5. B #5, Smith, F4J, in @ 612, 691' in 28-3/4 hrs.
18	1528	Drlg boulders & quartz 5 @ 1294 & 1362, 4-1/2 @ 1450. Mud: 8.7#, 36 vis, 40 WL, 2/32 FC, Ph 10.5. 42 RPM, 20M#. B #5 Smith, F4J, 612-1362', 750' in 33 hrs. B #6, Smith, F4J, in @ 1362 & drlg.
19	1665	Drlg rose & white quartz. 4-1/2 @ 1553 & 1640. Mud: 8.8#, 36 vis, 25 WL, 2/32 FC, Sd tr, Ph 10.5, pl 5, yld 5. 42 RPM, 25M#. B #6, Smith, F4J, 1362-1553', 191' in 19 hrs. B #7, Smith, F-6, in @ 1553, 112' in 15 hrs.
20	1830	Drlg quartz & hd pyrite. 4-1/2 @ 1790'. Mud: 8.9#, 35 vis, 20 WL, 2/32 FC, .25% sand, Ph 10.5, pl 7, yld 4, sol 4%. 42 RPM, 25M#. B #7, Smith F-6, 1553-1825', 272' in 33-3/4 hrs. B #8, Smith, F-57. 1770-75', 700 units of gas in hard pyrite.
21	2050	Drlg quartz & hd pyrite. 4-1/2 @ 1890'. Mud: 8.8#, 30 vis, 20.6 WL, 2/32 FC, Sand-tr., Ph 15. B #8, Smith, F-57, in @ 1825' & drlg, 225' in 24-1/4 hrs. Sli drlg brk 1932-50', no shows.

Cart Hollow #1
NW SW Sec. 20-2N-1W
Duchesne County, Utah

12/22/74	2220	Trip out, hard quartz. 4-1/4 @ 2060, 4-1/2 @ 2220. Mud: 8.9#, 37 vis, 17.6 WL, 2/32 FC, sand-nil, Ph 10.5. B #8, Smith, F-57, in @ 1825 & pulling 395' in 44.5 hrs.
23	2430	Drlg quartz & pyrite. Mud: 8.9#, 41 vis, 24 WL, 2/32 FC, sand- nil, Ph 11.5. B #9, Smith, E-896, in @ 2220 & drlg, 210' in 20 hrs.
24	2517	Drlg dolo & chert, hit @ 2490'. 4-1/4 @ 2430, 4-1/2 @ 2490. Mud: 8.9#, 39 vis, 22 WL, 2/32 FC, Ph 11.5. B #9, Smith, E-896, 2220-2490', 270' in 28.5 hrs. B #10, HTC, J-77, in @ 2490, 27' in 6 hrs.
25	2629	Drlg dolo & chert. 4-1/2 @ 2603. Mud: 8.9#, 36 vis, 20 WL, 2/32 FC, sand-nil Ph 11.5.. 42 RPM, 40M#. B #10, HTC, J-77, 2490-2603, 113' in 21.5 hrs. B #11, Smith, E-896, in @ 2603 & drlg.
26	2750	Trip in. Sand & some dolo & chert. 4-3/4 @ 2750. Mud: 8.9#, 37 vis, 15 WL, 2/32 FC, .25% sand, Ph 10.5, 4% solids. 42 RPM, 40M#. B #11, Smith, E-896, 2603-2750', 147' in 20.5 hrs. B #12, Smith, F-57 going in.
27	2928	Drlg sd & lime Mud: 8.9#, 37 vis, 13.2 WL, 2/32 FC, Sand-trace, Ph 11. 42 RPM, 40M#. B #12, Smith, F-57, in @ 2750', 178' in 23 hrs.
28	3045	Drlg sand, chert & lime. 4-1/2 @ 3016 Mud: 9.1#, 36 vis, 15.2 WL 2/32 FC, .25% sand, Ph 11. 42 RPM, 40M#. B #12, Smith, F-57, 2750-3016, 266' in 36-1/2 hrs. B #13, HTC, J-77, in @ 3016, 29' in 5 hrs.
29	3207	Drlg sand, quartz & lime Mud: 9.1#, 36 vis, 14.8 WL, 2/32 FC, .5% sand, Ph 11.5. 42 RPM, 40M#. B #13, HTC, J-77, in @ 3016, 191' in 29 hrs.
30	3391	Drlg sd, lime & dole.. Mud: 8.9#, 36 vis, 16 WL, 2/32 FC, sand-nil, Ph 11.5 42 RPM, 40M#. B #13, HTC, J-77, in @ 3016, 375' in 52-1/2 hrs.
31	3567	Drlg limestone w/ sand. Mud: 8.9#, 36 vis, 14.8 WL, 2/32 FC, .12½% sand, Ph 11.5. B #13, HTC, J-77, in @ 3016', 551' in 76-1/2 hrs.
1/1/75	3662	Drilling 4-1/2 @ 3589 Mud: 9.0#, 39 vis, 15 WL, 2/32 FC, .125% sand, Ph 11.5. B #13, HTC, J-77, 3016-3589, 573' in 79.5 hrs. B #14, Smith, F-5 in @ 3589, 73' in 9.5 hrs.
2	3828	Drlg li & dolo w/ scattered white sand stringers. Mud: 9.0#, 36 vis, 14.8 WL, 2/32 FC, .25% sand, Ph 11.5. 42 RPM, 40M#, B #14, Smith, F-5 in @ 3589, 239' in 33.5 hrs.
3	3961	Drlg li & shale Mud: 9.1#, vis 39, 13.2 WL, 2/32 FC, Sd-nil, Ph 11 B #14, Smith, F-5, in @ 3589 & drlg, 372' in 57-1/2 hrs.

The above is correct

CART HOLLOW, Well #1

1/1/75	3662	Drilling 4-1/2 @ 3589 Mud: 9.0#, 39 vis, 15 WL, 2/32 FC, .125% sand Ph 11.5. B #13, HTC, J-77, 3016-3589, 573' in 79.5 hrs. B #14, Smith, F-5 in @ 3589, 73' in 9.5 hrs.
1/2/75	3828	Drlg Li & dolo w/ scattered white sand stringers. Mud: 9.0#, 36 vis, 14.8 WL, 2/32 FC, .25% sand, Ph 11.5. 42 RPM, 40M#, B #14, Smith, F-5 in @ 3589, 239' in 33.5 hrs.
1/3/75	3961	Drlg li & Sh Mud: 9.1#, vis 39, 13.2 WL, 2/32 FC, Sd-nil, Ph 11 B #14, Smith, F-5, in @ 3589 & drlg, 372' in 57-1/2 hrs.
1/4/75	4085	Drlg li & sh Mud: 9.1#, 37 vis, 14.8 WL, 2/32 FC, .25% sand, 11.5 Ph. 42 RPM, 40M#. B #14, Smith, F-5, in @ 3589 & drlg. 496' in 81.5 hrs.
1/5/75	4154	Li & sh, working stuck pipe, stuck 4:45 am 1/5/75. 4-1/2 @ 4142'. Mud: 9.2#, 39 vis, 13 WL, 2/32 FC, sand-tr., Ph 11.5. 42 RPM, 40M#. B #14, Smith, F-5, 3589-4142, 553' in 95-1/2 hrs. B #15, HTC, J-33, in @ 4142, 12' in 2-1/4 hrs.
1/6/75	4230	Drlg sd, sh & li 6 hrs work & free pipe. Mud: 9#, 38 vis, 14 WL, 2/32 FC, Sd- tr., 11.5 Ph. 40 RPM, 35M#. B #15, HTC, J-33, in @ 4142, 88' in 20-1/4 hrs.
1/7/75	4303	Drlg li & sd. Mud: 9#, 36 vis, 13.2 WL, 2/32 FC, .25% sand, 11.5 Ph, 5% solids. 35 RPM, 35M#. B #15, HTC, J-33, in @ 4142' & drlg, 161' in 41 hr.
1/8/75	4330	Sand & lime, going in f/ DST #1, 4230-4330'. 4-1/4 @ 4330'. Mud: 9.0#, 35 vis, 13.5 WL, 2/32 FC, .25% sand, Ph 11.5. 35 RPM, 35M#. B #15, HTC, J-33, 4142-4330', 188' in 47 hrs.
1/9/75	4330	Trip out w/ fishing tools f/ 507', fishing f/ slips. DST 4230-4330', 3/4" BHC. 17 min pre-flow, opened dead, inc to weak blow. SI 47 min.. 2nd open 45 min, dead, inc to weak blow. SI 45 min.. Final flow 30 min., dead. 60 min FSIP. Rec'd 50' drlg mud. IH 2038#. 17 min IF 85-97#, 47 min ISIP 962#, 45 min 2nd flow 97-97#, 45 min 2nd SI 798#, 30 min FF 97-97#, 60 min FSIP 784#. Sampler: 0#, 2250 cc mud, Res 1.0 ohm @ 58°, Cl 6000 ppm, BHT 80°. Breaking down tail pipe & dropped slips in hole. Ran basket, started milling @ 485', trip out @ 500' & rec'd 3 chunks cement. Reran tools. (Later report - rec'd slips).
1/10/75	4397	Li & sand, trip in. Pld fishing tools & rec'd slips & 1 handle. Ran B #16. Mud: 8.8#, 35 vis, 16 WL, 2/32 FC, sand-tr., Ph 10.5 B #16, HTC, WTR, 4330-4397', 67' in 12 hrs. GIH w/ B #17, RR #15, HTC, J-33
1/11/75	4505	Li, sand & anhydrite, changing pump head. Mud: 8.8#, 38 vis, WL 18, 2/32 FC, Sand-tr., Ph 10.5.. 40 RPM, 42M#. B #17, RR #15, HTC, J-33, in @ 4397 & drlg, 108' in 16-3/4 hrs.
1/12/75	4666	Drlg li, sand & chert. Mud: 8.8#, 37 vis, 25 WL, 2/32 FC, .5% sand, 11.5 PH, Pl 9, Yld 14, 3% solids. 40 RPM, 42M#. B #17, RR #15, HTC, J-33, in @ 4397', 269' in 39-1/2 hrs.
1/13/75	4780	Sand & red shale, trip in, building volume. 5-1/2° @ 4780'. Mud: 8.8#, 36 vis, 12.4 WL, 2/32 FC, Sand tr., Ph 11. 40 RPM, 42M#. B #17, RR #15, HTC J-33, 4397-4780, 283' in 54 hrs (total 471' in 101 hrs).. GIH w/#18, Smith, F-
1/14/75	4963	Drlg sd & lime Mud: 8.8#, 35 vis, 22.4 WL, 2/32 FC, Sand-tr., 11.5 Ph 40 RPM, 42M#. B #18, Smith, F-4, in @ 4780 & drlg, 183' in 20.5 hrs.
1/15/75	5182	Sand, sh & dolo, circulating for samples. Drlg break f/ 9' to 16'-/hr @ 5089' Mud: 8.9#, 33 vis, 18.4 WL, 2/32 FC, .25% sand, Ph 11. 42 RPM, 40M#. B #18, Smith, F-4, in @ 4780', 402' in 44-1/4 hrs.

CART HOLLOW, Well #1

1/16/75	5182	Pulling DST #2, 5095-5182', 9 stands out. DST #2, 5095-5182', 3/4" BHC, 1/4" TC. IF 26 min, sli to fair blow, tool failed to close. ISIP 45 min. 2nd Flow, 87 min, wanted 45 min & tool failed to close, sli to fair blow. 2nd SI 30 min, tried for 45 min.. Final flow 30 min, sli blow. Final SI 60 min.. Mud: 9.0#, 34 vis, 18 WL, 2/32 FC, .125% sand, Ph 11. B #18, Smith, F-4, 4780-5182', 402' in 44-1/4 hrs.
1/17/75	5282	Drlg sd & shale 13-3/4 @ 5150, 14 @ 5254 Mud: 9.0#, 37 vis, 18 WL, 2/32 FC, .12½% sand, Ph 11, solids 4%. 42 RPM, 40M#. B #19, RR #18, Smith, F-4, in @ 5182, 100' in 12-3/4 hrs. DST #2, 5095-5182', recovered: 540' WCDM Res 1.85 @ 49° 500 ppm Cl 270' MCW .9 @ 50° 1800 2170' sli GCW .7 @ 52° 3500 Sampler: .15 CFG, 2160 cc wtr, res .7 @ 52°, 3500 ppm . Pit mud: 2.2 @ 46°, 3500 ppm. BHT 102°. IHMP 2416#, 26 min IF 50-205#, 45 min ISIP 1902#, 87 min 2nd flow 428-816#, 30 min 2nd SI 1650#, 30 min FF 1078-1184#, 60 min FSIP 1640#, FHMP 2407#.
1/18/75	5454	Drlg sd, sh & silt. 16 @ 5340, 16½ @ 5443. Mud: 9#, 36 vis, 40 WL, 2/32 FC .5% sand, Ph 9.5, solids 6%. 42 RPM, 40M#. B #19, RR #18, Smith F-4, in @ 5182 & drlg, 272' in 35-1/2 hrs.
1/19/75	5601	Drlg siltstone & anhydrite 20 @ 5525 Mud: 8.9#, 30 vis, 22.6 WL, 2/32 FC Sand-tr., Ph 11.0, solids 4%. 42 RPM, 35M#. B #19, RR #18, Smith, F-4, in @ 5182, 419' in 58-1/4 hrs.
1/20/75	5735	Drlg sd & sh 22 @ 5625, misrun @ 5725 Mud: 9.1#, 35 vis, 16 WL, 2/32 FC .25% sand, Ph 11.5. 40 RPM, 35M#. B #19, RR #18, Smith, F-4, in @ 5182, 553' in 80-3/4 hrs.
1/21/75	5807	Sd, sh & dolo, prep to log. 5-1/2 @ 4780, 10 @ 4868, 10 @ 4962, 10 @ 5057, 13-3/4 @ 5150, 24 @ 5755'. Mud: 9.1#, 50 vis, 11.6 WL, 2/32 FC, Sand-nil, Ph 12. 40 RPM, 25M#. B #19, RR #18, Smith, F-4, in @ 5152-5807, 625' in 94-1/2 hrs.
1/22/75	5819	Drlg sd & shale. Ran DM & Dual Ind. log 5807-508'. Mud: 9.1#, 43 vis, 11.6 WL, 2/32 FC, Sand-nil, Ph 12. 42 RPM, 25M#. B #20, HTC, XV, in @ 5807 & drlg, 12' in 3 hrs. Schlumberger says BH loc (5807') is 528.7' north & 239.1' west of point of origin (600') Per Charley Alcock 12:50 pm. 1/22/75.
1/23/75	5914	Drlg sd & sh. 26° @ 5838, 5870 & 5902. Mud: 9.1#, 36 vis, 12.4 WL, 2/32 FC, .25% sand, Ph 11.5. 40 RPM, 32M# (inc f/22M# @ 5838'. B #20, HTC, XV, in @ 5807, 107' in 24-1/2 hrs.
1/24/75	5966	GIH after trip to rec HOWCO line. 27 @ 5934, 28 @ 5966. Mud: 9.0#, 36 vis, 14 WL, 2/32 FC, .125 Sd, Ph 11. 40 RPM, 25-30M#. B #20, HTC, XV, 5807-5949, 142' in 34.5 hrs. B #21, Smith, F-45, in @ 5949, 17' in 3.5 hrs.

CART HOLLOW, Well #1

1/25/75	6034	Drilling sd, dolo & chert 27° @ 6025 Mud: 9.1#, 33 vis, 15.? WL, 2/32 FC, .12½% Sand, Ph 11.5 40 RPM, 25M#. B #21, Smith, F-45, in @ 5949, 85' in 23½ hrs. At 5986, 6-7' drlg brk. at 6023, 6 unit kick on mud logger.
1/26/75	6108	Circ'g f/ DST, sand, shale & dolo. 24-1/2 @ 6092'. Mud: 9.1#, 33 vis, 12.4 WL, 2/32 FC, sand-tr., 11.5 Ph. 42 RPM, 30M#. B #21, Smith, F-45, in @ 5949', 159' in 39-1/2 hrs. Drlg brk @ 6086', good cut & fluor.
1/27/75	6108	Setting packer for DST #3, 6088-6108', Park City ??.. Mud: 9.2#, 51 vis, 12.4 WL, 2/32 FC, sand-trace, Ph 12
1/28/75	6131	Coring dolo., core #1, started @ 6108'. DST #3, 6088-6108', 15/16" BHC, 1/4" surf needle valve. 5 minpre-flow, air blow under 1/2 to 2" water. Attempted 45 min ISI, blow inc., cycled tool; 45 min 2nd flow, air blow under 12" water; att 45 min 2nd SI; 30 min final flow, air blow under 12" water; Att 60 min FSIP. Rec'd 1760' fluid: 1320' MW, res 1.4 @ 52°, 100 ppm Cl; 440' clear water, res 3.9 @ 56°, 100 ppm Cl.. Sampler: 2410 cc water, less than 100 ppm Cl. Pit mud 200 ppm Cl. NO SHOWS. BHT 101° F. No shut in pressures, "J" pin broken & tool malfunctioned. IHP 2849#, FHP 2840#; Flow pressures: 1st 85-132#, 2nd 132-189#; 3rd 208-303#, 4th 303-579#, 5th 579-645#; 6th 645-759#.. Mud: 9.1#, 42 vis, 12.4 WL, 2/32 FC, Sand-tr., Ph 12. B #22, Chris'n MC-23, in @ 6108', cored 23' in 6-3/4 hrs. 42 RPM, 20M#.
1/29/75	6192	Drilling dolo & chert Core #1, 6108-6148', cut 40', rec'd 33' dolomite, no shows. Bbbl jammed. Mud: 9.2#, 37 vis, 10.8 WL, 2/32 FC, .25% sand, Ph 11.5. 40 RPM, 40M#. B #22, Chris'n, MC-23, cored 6108-48', 40' in 13-3/4 hrs. B #23, Smith, F-4, in @ 6148 & drlg. 44' in 7 hrs.
1/30/75	6235	Running DST #4, 6211-6235'. 21° @ 6210'. Mud: 9#, 39 vis, 12.8 WL, 2/32 FC, Sand - tr., Ph 11.5. 40 RPM, 40M#. B #23, Smith, F-4, 6148-6235', 87' in 10-1/2 hrs. DST #4, 6211-6235'. Set pkr @ 5:44 a.m., Opened tool 5:57 am 1/30/75. 6 min pre-flow, blow 4" to 12" immed & thru pre-flow. 46 min ISI. 2nd open, opened w/blow f/4" to 12" in 1 min.. Still open on 2nd open.
1/31/75	6361	Drilling 31° @ 6290'. DST #4, Cont'd, 6211-6235', 5/8" BH & 1/4" SC, no WC. 2nd Flow, 55 min w/ air blow under 12" wtr thruout. 45 min 2nd SI, Final flow, 33 min, open w/ blow under 1" water, inc to blow under 8" @ end, no GTS. 60 min FSI.. Rec'd 6000' fluid: 540' MCW, res 1.3 @ 54°, 750 ppm Cl.. 5460' water, res 4.2 @ 58° w/50 ppm Cl. Sampler: 2480 cc water, res 4.1 @ 59°, 50 ppm Cl. Recovered mud filtrate 1.2 @ 62°, 750 ppm Cl. Pit mud filtrate 1.0 @ 59°, .97 @ 60°, 750 ppm. IH & FH 2865#, 6 min IF 278-777#, 46 min ISI 2611#, 55 min 2nd open 847-2442#, 45 min 2nd SI 2611#, 33 min FF 2442-2571#, 60 min FSIP 2597#. BHT 120°. Mud: 9.1#, 38 vis, 12.8 WL, 2/32 FC, sand-tr., Ph 10.5.. 42 RPM, 45M#. Bit #24, RR #23, Smith, F-4, in @ 6235, 126' in 8-3/4 hrs.

CART HOLLOW, Well #1

2/1/75	6382	Prep release pkr on DST #5, 6330-82'. DST #5, 6330-82', open tool 6:33 a.m. Good blow, 0 to btm bucket, immediately, NGTS. Tool would not close, open 1 hr 15 min. Prep to pull. 32° @ 6368'. Mud: 9.0#, 50 vis, 10.4 WL, 2/32 FC, .5% sand, Ph 12.. 42 RPM, 45M#. B #24, RR #23, Smith, F-4, 6235-6382', 147' in 10 hrs.
2/2/75	6544	Taking straight hole test. 33° @ 6425'. Worked free DST #5, 6330-82', pulled. Rec'd 6000' fluid: 1080' MCW, res 1.7 @ 50°, 750 ppm; 4920' water, res 4.6 @ 106°, 75 ppm. Sampler: 2480 cc water, res 3.8 @ 72°, 75 ppm. Pit mud filtrate, 1.5 @ 56°, 1400 ppm. BHT 120°. IHMP 2922#, FHMP 2912#, IF 974# to 2649# in 75 min. No SI, tool did not work. Mud: 9.1#, 41 vis, 10.4 WL, 2/32 FC, .5% sand, Ph 12. 42 RPM, 45M#. B #25, RR #23 & 24, Smith, F-4, in @ 6382' & drlg, 162' in 10-1/4 hrs.
2/3/75	6674	Logging 35° @ 6557, 37° @ 6620 Ran CNL & FDC 6673-4000', DM 6673-5800', WLTD 6673'. Now running Dual Ind-Laterolog. DM off scale at 36°, believe 200' off TD. Mud: 9.1#, 50 vis, 10.2 WL, 2/32 FC, .5% sand, Ph 11.5. 42 RPM, 45M#. B #25, RR #23 & 24, Smith, F-4, 6382-6674, 292' in 17-3/4 hrs.
2/4/75	6674	WOO. Ran Dual Ind. Laterolog T.D.-4000'. On bank w/drill string. Mud: 9.1#, 60 vis, 10.2 WL, 2/32 FC, .5% sand, Ph 11.5.
2/5/75	6674	TD - Prep set cmt plug in btm surf casing. Spotted 4 cmt plugs as follows: 50 sx 6450-6300', 50 sx 5900-5750', 50 sx 4750-4600' & 35 sx 1900-1800'.
2/6/75	6674	TD - Spot 80 sk cmt plug 525-450', 20 sk cmt plug 20' to surface with regulation marker. Rig released 8 p.m. 2/5/75. <u>COMPLETED P & A DRY HOLE 2/5/75</u>

UNITED STATES DEPARTMENT OF AGRICULTURE
FOREST SERVICE

July 14, 1975

Atlantic Richfield Company
1860 Lincoln Street
Suite 501
Denver, Colorado 80203

Dear Sirs:

All requirements for clean up and restoration of U-13036 - Cart Hollow #1 well location site have been completed to the satisfaction of the Roosevelt Ranger District.

The site has been restored to a natural contour and the top soil spread back. The access road has been restored to an acceptable condition and ready for seeding.

Seeding will not be required on the site or road due to the late season. The company is relieved of the seeding responsibility. The Forest Service will seed the site and road this fall.

The Roosevelt Ranger District appreciates the fine cooperation in completing all conditions and requirements of the operating plan.

Sincerely,

S. Ronald Lisonbee

S. RONALD LISONBEE
DISTRICT RANGER

6200-11 (1/69)

ROSS CONSTRUCTION COMPANY

ORIGINAL

OIL FIELD CONSTRUCTION

Mailing Address: P.O. Box 397
VERNAL, UTAH 84078

Phone 789-3248

#5680

Atlantic Richfield Co.
1860 Lincoln St. Suite 501
501 Lincoln Tower Bldg.
Denver, Colorado 80203

Date July 31, 1975

Our Order

Your Order

AR-GL-33984

KELLY CO., MFRS., SALT LAKE

Date	Amount	Terms Net
	Cart Hollow #1	
	Equipment to restore location & backfill reserve pit	
June 5, 11, 12	Mack tandemn truck #T-10 & lowboy trailer #L-1.	
13, 14, 16, 17,	12½ hrs. @ $30.00 $B 375.00	
18, 23, 24, 25	Ford F-600 gin truck #T-9	
26, 27, 28, 30	26½ hrs. @ $14.00 $ 371.00	
	D-7 E series Cat #C-14 w/dozer & hyd. ripper	
	58 hrs. @ $36.00 $2,088.00	
	D-7 F series Cat #C-16 w/hyd. dozer & hyd. ripper	
	80 hrs. @ $36.00 $2,880.00	
	D-7 17A series Cat #C-10 w/dozer	
	76 hrs. @ $26.00 $1,976.00	
	Cat 12 99E series motor grader #G-6	
	14½ hrs. @ $23.00 $ 333.50	
	Roustabout foreman	
	11 hrs. @ $ 7.50 $ 82.50	
	Roustabout labor	
	77 hrs. @ $ 6.50 $ 500.50	
	½ ton Dodge pickup #P-28 w/tools	
	11 hrs. @ $ 5.00 $ 55.00	
	3/4 ton Dodge pickup #P-31 w/tools	
	16 hrs. @ $ 5.50 $ 88.00	
	Welder	
	2 hrs. @ $12.00 $ 24.00	
	3" Centrifical pump	
	55 hrs. @ $ 2.50 $ 137.50	
	Travel time one way for operators	
	26 hrs. @ $14.00 $ 364.00 A	
	100 ft. net wire fence from contractors stock $C 32.00 1999	
	18 steel posts from contractors stock @ $2.25 $ 40.50	
	2-15X7 ft. cattleguards from contractors stock	
	@ $450.00 $ 900.00 2099	
	Uintah Basin Concrete ticket #3160 $ 20.95 1999	
	Plus 10% handling charge $ 2.10	
	Flint Engineering & Const. Co. invoice #114777 B $294.00	
	Plus 10% handling charge $ 29.00	
	Ashton Supply Co. ticket #7977 $C 111.87 2040	
	Plus 10% handling charge $ 11.19	
	Vernal N. O. Nelson Co. invoice #000803 1999 $ 58.16	
	Plus 10% handling charge $ 5.82	
	Work tickets #17199, 17210, 17166, 15949, 17167, 17295, 17168, 17296, 17297, 17169, 17170, 17298, 17032, 17052, 17299, 17001, 17835, 16980, 17002, 17003, 17004, 17005, 17006, 17007, 17008, 17178, 17009, 17179, 17180, 17010, 17181, 17182, 17315, 17316, 17317, 16670, 17391, 17357, 17803	
	Total this invoice net	$10,780.59

APPROVED BY

FORM OGC-8-X
File in Quadruplicate

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS CONSERVATION
1588 West North Temple
Salt Lake City, Utah 84116

REPORT OF WATER ENCOUNTERED DURING DRILLING
* *

Well Name and Number Cart Hollow, Well #1

Operator Atlantic Richfield Company

Address 501 Lincoln Tower Bldg., 1860 Lincoln St., Denver, Colo. 80203

Contractor Signal Drilling Company, Inc.

Address 1200 Security Life Building, Denver, Colorado 80202

Location NW 1/4, SW 1/4; Sec. 20 ; T. 2 N; R. 1 W., Duchesne County.

Water Sands: None other than as indicated on DST.

	Depth: From - To -	Volume: Flow Rate or Head -	Quality: Fresh or Salty -
1.	DST #1 4230-4330'	Rec'd 50' DM	
2.	DST #2 5095-5182'	(Rec'd 540' WCDM ((270' MCW (((2170' Sli GCW	Analysis att'd.
3.	DST #3 6088-6108'	(Rec'd 1320' MW ((440' Clear wtr	2 Analysis att'd.
4.	DST #4 6211-6235'	(Rec'd 540' MCW ((5460' W	Analysis f/Sampler att'd.
5.	DST #5 6330-6382'	(Rec'd 1080' MCW ((4920' W	Analysis f/Sampler att'd.

(Continue on Reverse Side of Necessary)

Formation Tops:

Ankareth	4691'
Thaynes	5093'
Woodside	5180'
Park City	5914'
Weber	6496'

NOTE: (a) Upon diminishing supply of forms, please inform this office.
(b) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure.
(c) If a water quality analysis has been made of the above reported zone, please forward a copy along with this form.

CLI-51 (REV. 1966)

CHEM LAB

WATER ANALYSIS EXCHANGE REPORT

MEMBER	Atlantic Richfield Company	LAB NO.	15149-2
OPERATOR	Atlantic Richfield	REPORT NO.	
WELL NO.	Cart Hollow No. 1	LOCATION	NW SW 20-2N-1W
FIELD	Wildcat	FORMATION	Park City
COUNTY	Duchesne	INTERVAL	6330-6382
STATE	Utah	SAMPLE FROM	DST No. 5 (MFE)
		DATE	February 13, 1975

REMARKS & CONCLUSIONS: Cloudy water.

Cations	mg/l	meq/l	Anions	mg/l	meq/l
Sodium	104	4.54	Sulfate	750	15.60
Potassium	12	0.31	Chloride	8	0.23
Lithium			Carbonate	0	-
Calcium	179	8.93	Bicarbonate	146	2.39
Magnesium	54	4.44	Hydroxide		
Iron	-		Hydrogen sulfide	-	
Total Cations		18.22	Total Anions		18.22

Total dissolved solids, mg/l	1179
NaCl equivalent, mg/l	816
Observed pH	7.5

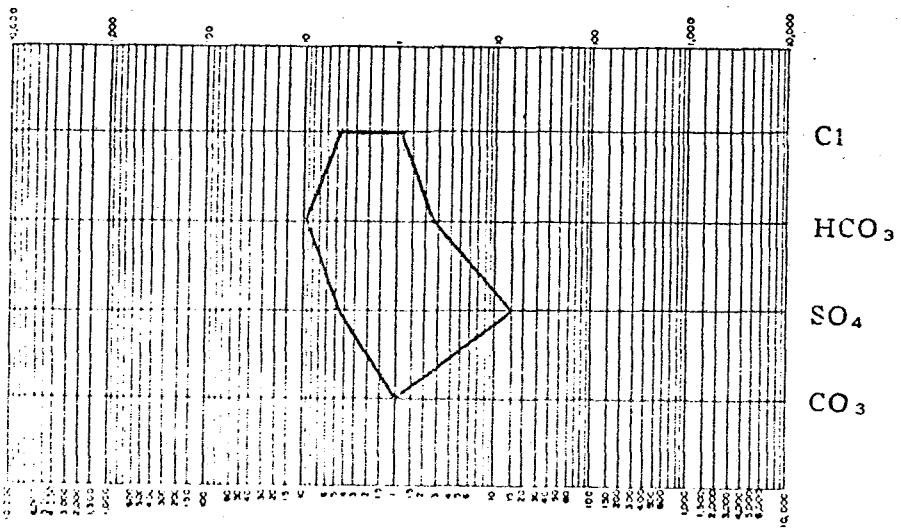
Specific resistance @ 68° F.:

Observed	8.80	ohm-meters
Calculated	7.60	ohm-meters

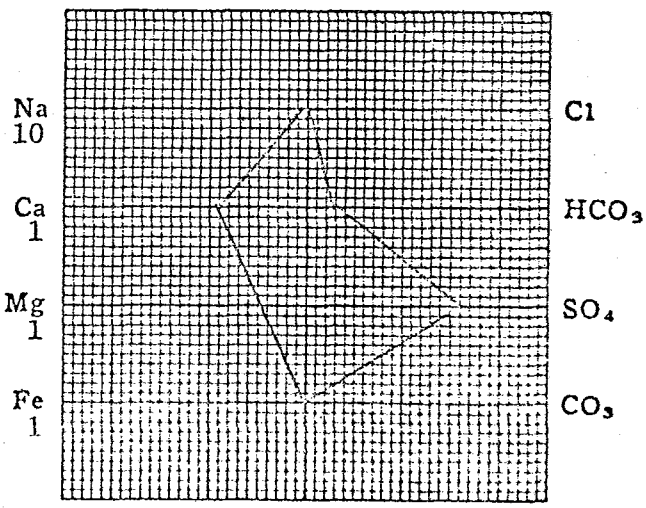
WATER ANALYSIS PATTERNS

MEQ per unit

LOGARITHMIC



STANDARD



(Na value in above graphs includes Na, K, and Li)

NOTE: Mg/l = Milligrams per liter. Meq/l = Milligram equivalents per liter

Sodium chloride equivalent = by Dunlap & Hawthorne calculation from components

CL1-51 (REV. 1966)

CHEM LAB

WATER ANALYSIS EXCHANGE REPORT

MEMBER	Atlantic Richfield Company	LAB NO.	15149-1
OPERATOR	Atlantic Richfield Company	REPORT NO.	
WELL NO.	Cart Hollow No. 1	LOCATION	NW SW 20-2N-1W
FIELD	Wildcat	FORMATION	Park City
COUNTY	Duchesne	INTERVAL	6211-6235
STATE	Utah	SAMPLE FROM	DST No. 4 (MFE)
		DATE	February 13, 1975

REMARKS & CONCLUSIONS: Cloudy water.

Cations	mg/1	meq/1	Anions	mg/1	meq/1
Sodium	53	2.30	Sulfate	650	13.52
Potassium	12	0.31	Chloride	18	0.51
Lithium			Carbonate	0	–
Calcium	189	9.43	Bicarbonate	134	2.20
Magnesium	51	4.19	Hydroxide		
Iron	–		Hydrogen sulfide	–	
Total Cations		16.23	Total Anions		16.23

Total dissolved solids, mg/1	1039
NaCl equivalent, mg/1	726
Observed pH	7.2

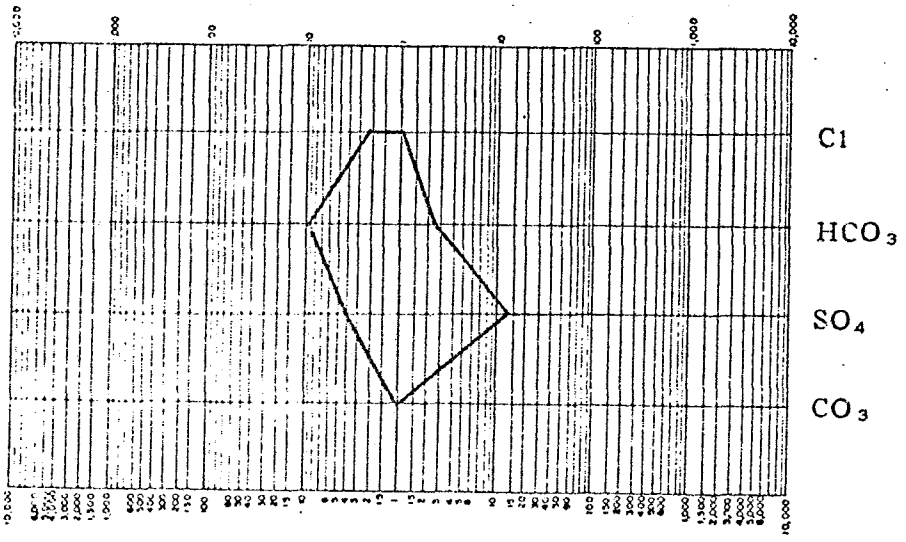
Specific resistance @ 68° F.:

Observed	9.00	ohm-meters
Calculated	8.00	ohm-meters

WATER ANALYSIS PATTERNS

MEQ per unit

LOGARITHMIC



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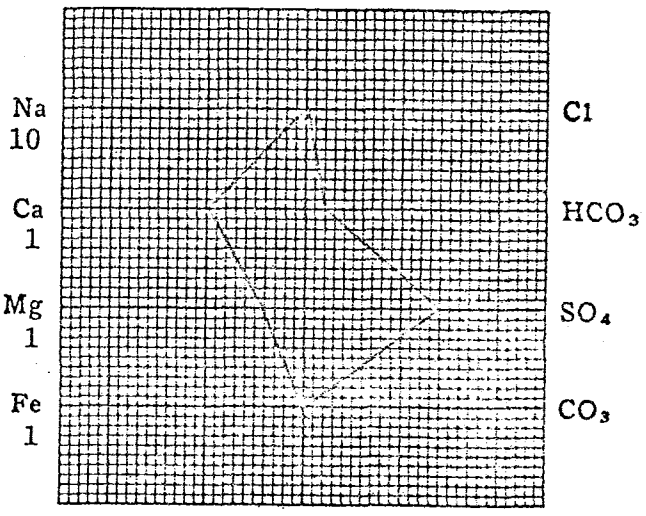


(Na value in above graphs includes Na, K, and Li)

NOTE: Mg/1 = Milligrams per liter. Meq/1 = Milligram equivalents per liter

Sodium chloride equivalent = by Dunlap & Hawthorne calculation from components

CL1-51 (REV. 1966)

CHEM LAB

WATER ANALYSIS EXCHANGE REPORT

MEMBER	Atlantic-Richfield Company	LAB NO.	15089-2
OPERATOR	Atlantic-Richfield Company	REPORT NO.	
WELL NO.	Cart Hollow No. 1	LOCATION	NW NW 20-2N-1W
FIELD	Wildcat	FORMATION	
COUNTY	Duchesne	INTERVAL	6088-6108
STATE	Utah	SAMPLE FROM	DST No. 3 (400 feet)
		DATE	Februay 7, 1975

REMARKS & CONCLUSIONS: Cloudy water.

Cations	mg/1	meq/1	Anions	mg/1	meq/1
Sodium	644	28.00	Sulfate	2300	47.84
Potassium	40	1.02	Chloride	52	1.47
Lithium			Carbonate	–	
Calcium	329	16.42	Bicarbonate	220	3.61
Magnesium	91	7.48	Hydroxide		
Iron	–		Hydrogen sulfide	–	
Total Cations		52.92	Total Anions		52.92

Total dissolved solids, mg/1	3564
NaC1 equivalent, mg/1	2440
Observed pH	7.5

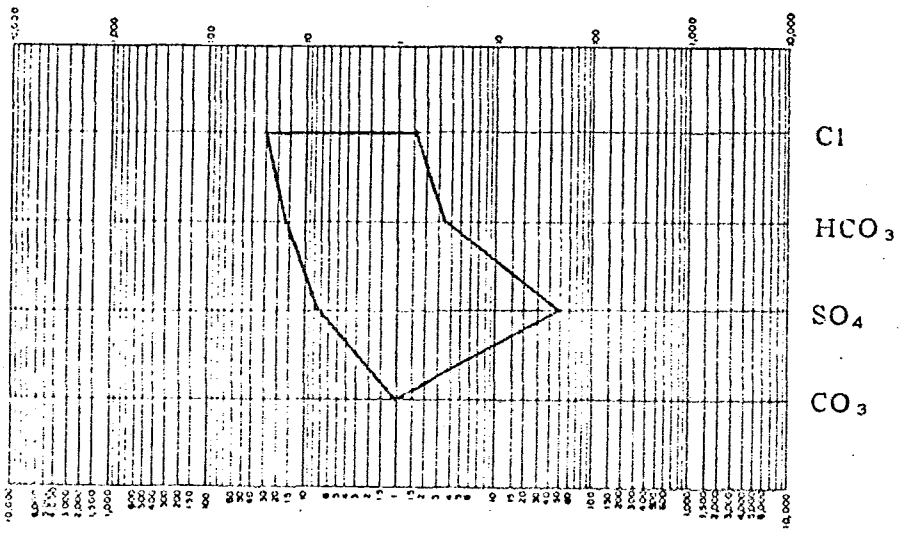
Specific resistance @ 68° F.:

Observed	3.20	ohm-meters
Calculated	2.90	ohm-meters

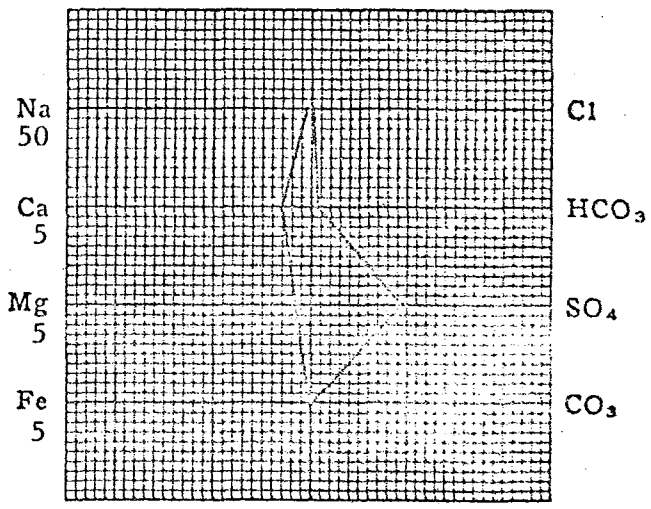
WATER ANALYSIS PATTERNS

MEQ per unit

LOGARITHMIC



STANDARD



(Na value in above graphs includes Na, K, and Li)

NOTE: Mg/1 = Milligrams per liter. Meq/1 = Milligram equivalents per liter

Sodium chloride equivalent = by Dunlap & Hawthorne calculation from components

CLI-51 (REV. 1966)

CHEM LAB

WATER ANALYSIS EXCHANGE REPORT

MEMBER	Atlantic Richfield Company	LAB NO.	15089-1
OPERATOR	Atlantic Richfield Company	REPORT NO.	
WELL NO.	Cart Hollow No. 1	LOCATION	NW NW 20-2N-1W
FIELD	Wildcat	FORMATION	
COUNTY	Duchesne	INTERVAL	6088-6108
STATE	Utah	SAMPLE FROM	DST No. 3 (Top)
		DATE	February 7, 1975

REMARKS & CONCLUSIONS: Mud, dark colored filtrate.

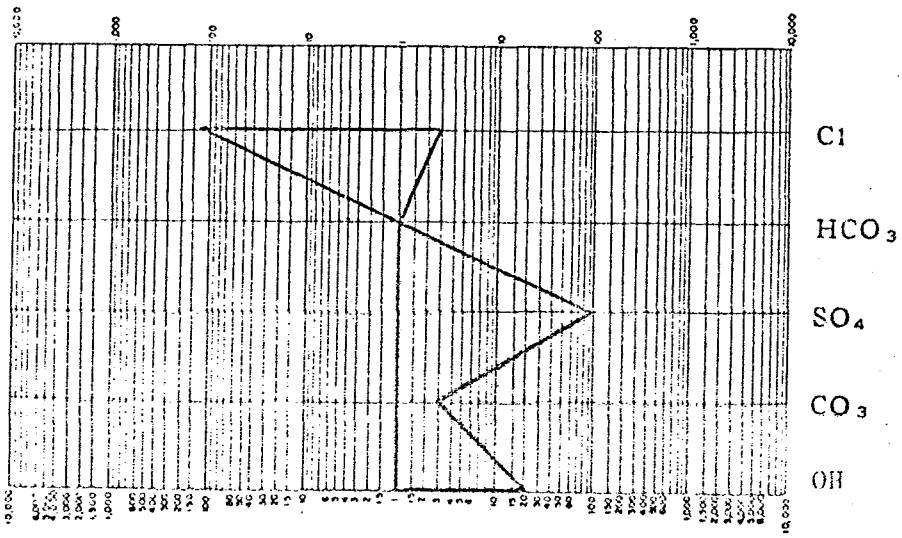
Cations	mg/1	meq/1	Anions	mg/1	meq/1
Sodium	2691	117.08	Sulfate	4500	93.60
Potassium	29	0.74	Chloride	100	2.82
Lithium			Carbonate	183	3.00
Calcium	14	0.70	Bicarbonate		
Magnesium	1	0.08	Hydroxide	576	19.18
Iron	–		Hydrogen sulfide	–	
Total Cations		118.60	Total Anions		118.60

Total dissolved solids, mg/1	8001	Specific resistance @ 68° F.:	
NaCl equivalent, mg/1	5860	Observed	1.25 ohm-meters
Observed pH	11.0	Calculated	1.10 ohm-meters

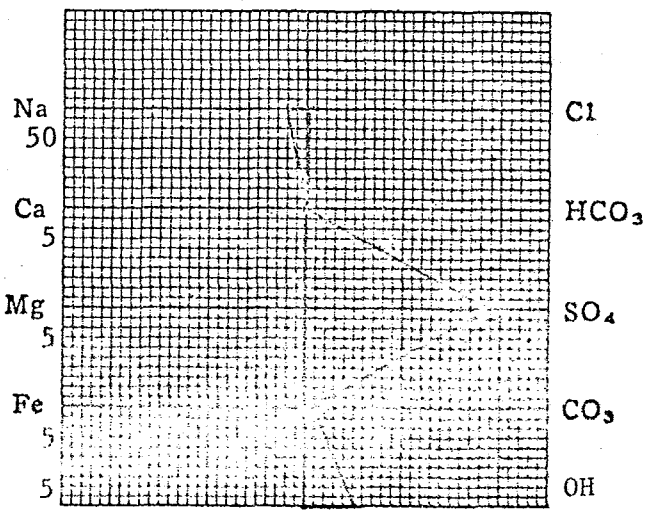
WATER ANALYSIS PATTERNS

MEQ per unit

LOGARITHMIC



STANDARD



(Na value in above graphs includes Na, K, and Li)

NOTE: Mg/1 = Milligrams per liter. Meq/1 = Milligram equivalents per liter

Sodium chloride equivalent = by Dunlap & Hawthorne calculation from components

CL-51 (REV. 1966)

CHEM LAB

WATER ANALYSIS EXCHANGE REPORT

MEMBER	Atlantic Richfield Company	LAB NO. 15014	REPORT NO. 1-475
OPERATOR	Atlantic Richfield Company	LOCATION	NW SW 20-2N-1W
WELL NO.	1 Cart Hollow	FORMATION	Green River
FIELD	Wildcat	INTERVAL	5095-5182
COUNTY	Duchesne	SAMPLE FROM	DST No. 2 (Middle)
STATE	Utah	DATE	January 27, 1975

REMARKS & CONCLUSIONS: Clear water

Cations	mg/1	meq/1	Anions	mg/1	meq/1
Sodium	4749	206.57	Sulfate	5000	104.00
Potassium	68	1.74	Chloride	6000	169.20
Lithium			Carbonate	0	-
Calcium	847	42.27	Bicarbonate	134	2.20
Magnesium	302	24.82	Hydroxide		
Iron	-		Hydrogen sulfide	-	
Total Cations		275.40	Total Anions		275.40

Total dissolved solids, mg/1	17032
NaCl equivalent, mg/1	14762
Observed pH	6.4

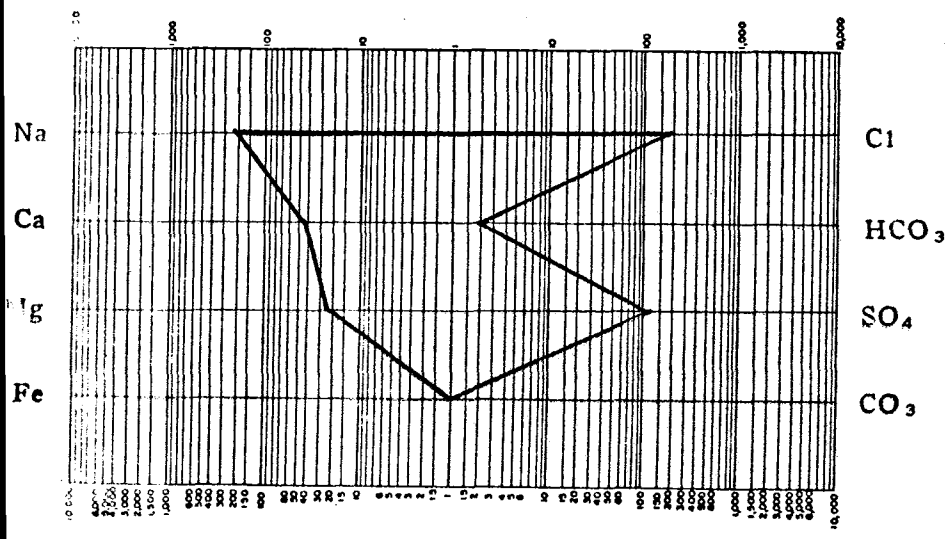
Specific resistance @ 68° F.:

Observed	0.53	ohm-meters
Calculated	0.47	ohm-meters

WATER ANALYSIS PATTERNS

MEQ per unit

LOGARITHMIC



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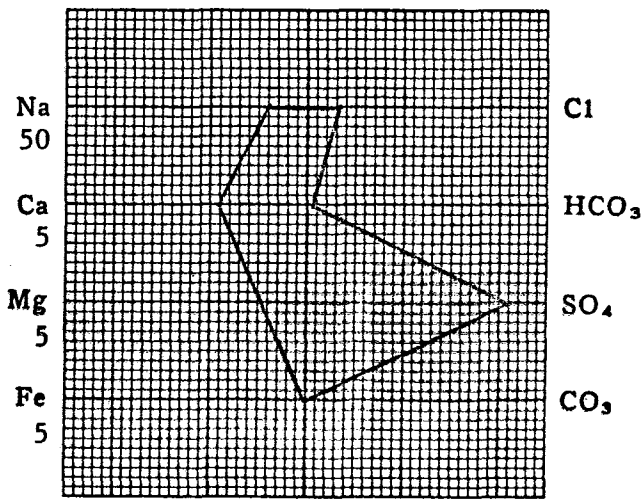

(Na value in above graphs includes Na, K, and Li)

NOTE: Mg/1=Milligrams per liter. Meq/1=Milligram equivalents per liter

Sodium chloride equivalent=by Dunlap & Hawthorne calculation from components

CHEMICAL & GEOLOGICAL LABORATORIES

P. O. Box 2794
Casper, Wyoming 82601

GAS ANALYSIS REPORT

Company: Atlantic Richfield Company Date: February 12, 1975 Lab. No. 15221
Well No.: Cart Hollow #1 Location: NW SW 20-2N-1W
Field: White Rocks Formation:
County: Duchesne Depth: 6088-6108
State: Utah Sampling point: DST No. 3
Line pressure: – psig; Sample pressure: 0 psig; Temperature: – ° F; Container number: 1L
Remarks: Sample brough in 2-12-75 by Tom Loomis (Johnston Testers)

Component	Mole % or Volume %	Gallons per MCF
Oxygen	0	
Nitrogen	99.39	
Carbon dioxide	Trace	
Hydrogen sulfide	0	
Methane	Trace	
Ethane	0.17	
Propane	0.09	0.025
Iso-butane	0.02	0.007
N-butane	0.03	0.009
Iso-pentane	0.01	0.004
N-pentane	0.01	0.004
Hexanes & higher	0.28	0.129
Total	100.00	0.178

GPM of pentanes & higher fraction: 0.137

Gross btu/cu. ft. @60° F. & 14.7 psia (dry basis): 23
Specific gravity (calculated from analysis): 0.975
Specific gravity (measured): 0.973

Remarks: Analysis corrected for 6.28% air contamination.

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.: U - 13036

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: - -

7. UNIT AGREEMENT NAME: - -

8. FARM OR LEASE NAME: Cart Hollow

9. WELL NO.: 1

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 20-2N-1W, USB&M

OIL WELL ☐ GAS WELL ☐ OTHER Dry hole

2. NAME OF OPERATOR: Atlantic Richfield Company

3. ADDRESS OF OPERATOR: 501 Lincoln Tower Bldg., 1860 Lincoln St., Denver, Colorado 80203

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
NW SW - 1581' f/South & 1258' f/West lines Sec. 20

14. PERMIT NO. 43-013-30350
Mr. Guynn 10/17/74

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 7772' GR

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other) Location Restoration			X
(Other)			☐	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Location has been restored, inspected and approved by United States Department of Agriculture, Forest Service. See Mr. S. R. Lisonbee's letter of 7/14/75, attached.

18. I hereby certify that the foregoing is true and correct

SIGNED B J Sartain B. J. Sartain TITLE Drilling Supervisor DATE 8/7/75

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side