FILE NOTATIONS

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

Checked by Chief PWB
Approval Letter 3-29-71
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..... Mi-L..... Sonic.....
CBLog..... CCLog..... Others.....

LWP
9-13-90

MEMO OF TRANSMITTAL

webb resources, inc.
1776 LINCOLN STREET
DENVER, COLORADO 80203

TO: Utah Oil & Gas Commission 1588 West North Temple Salt Lake City, Utah 84116	ATTN:
FROM: John P. Weldon - Geologist	DATE: 3-24-71
SUBJECT: #17-16 Federal SE SE 17-37S-5E	REF: Garfield County, Utah

ENCLOSURES:

Enclosed for your approval on the above caption Well, please find the following:

U. S. G. S. Permit to Drill
Survey Plat
Copy of the Designation of Agent

Thank you.

JPW:sm

SIGNED John P. Weldon /sm

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

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

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

2. NAME OF OPERATOR: Webb Resources, Inc.

3. ADDRESS OF OPERATOR: 1776 Lincoln Street Denver, Colorado 80203

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 760' FSL & 600' FEL SE SE Section 17
At proposed prod. zone: Same

5. LEASE DESIGNATION AND SERIAL NO.: U-8269

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: Collett Unit

8. FARM OR LEASE NAME: Federal

9. WELL NO.: #17-16

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 17-37S-5E

12. COUNTY OR PARISH: Garfield

13. STATE: Utah

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 26 miles ESE from Escalante, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 2,464

16. NO. OF ACRES IN LEASE: 2,464

17. NO. OF ACRES ASSIGNED TO THIS WELL: 40 acres

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

19. PROPOSED DEPTH: 3850'

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 5470' Ground Level (Surveyed)

22. APPROX. DATE WORK WILL START*: Upon Approval

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24#	300'	Sufficient to Fill to surface

PROPOSED WORK:

1. Drill 12-1/4" rotary hole from surface to 300' for surface casing.
2. Cement approx. 300' of 8-5/8" casing with sufficient sxs cement to fill to surface.
3. Install and test blowout preventor equipment.
4. Blowout preventor to be given a daily operational test and each test logged.
5. Drill 7-7/8" hole to approx. 3850' in the Cedar Mesa formation.
6. Mud Program: Native mud, surface to 2700', then 9.5# mud to total depth.
7. Run IES and Gamma Ray Sonic Caliper logs, surface to TD
8. If commercial production is indicated, cement 5½" csg. through productive sand and perforate 4 jet holes per foot.

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. SIGNED John F. Webb TITLE Geologist DATE 3-24-71

(This space for Federal or State office use)

PERMIT NO. 43-017-30031 APPROVAL DATE

APPROVED BY TITLE DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

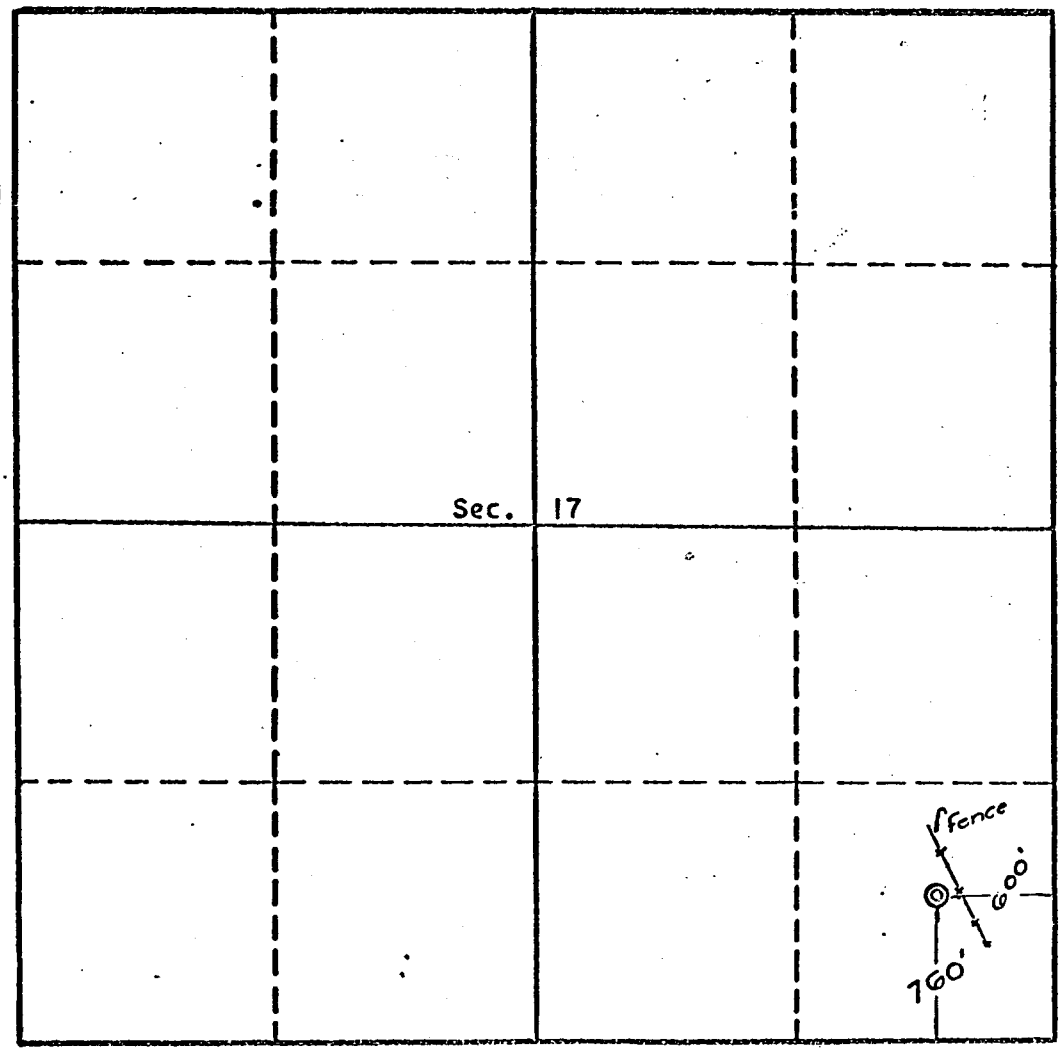
Company WEBB RESOURCES, INC.

Well Name & No. _____

Location 760 feet from the South line and 600 feet from the East line.

Sec. 17, T. 37 S., R. 5 E., S. L. M., County Garfield, Utah

Ground Elevation 5470



Scale, 1 inch = 1,000 feet

Surveyed March 19, 19 71

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.

REGISTERED LAND SURVEYOR
NO. 2611
ERNEST V. ECHOHAWK
STATE OF UTAH

Seal:

Ernest V. Echohawk
Registered Land Surveyor
Utah Registration No. 2611

March 29, 1971

Webb Resources, Inc.
1776 Lincoln Street
Denver, Colorado 80203

Re: Collett Unit Federal 17-16
Sec. 17, T. 37 S, R. 5 E,
Garfield County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted.

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

This approval terminates within 90 days if the well has not been spudded-in within said period.

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. The API number assigned to this well is 43-017-30031.

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

CLEON B. FEIGHT
DIRECTOR

CBF:sd
cc: U.S. Geological Survey

PI

PF

webb resources, inc.

The Denver Center Building · 1776 Lincoln Street · Denver, Colorado 80203 · 303/892-5504

April 2, 1971

RE: Surface Casing Revision
#17-16 Federal
SE SE 17-37S-5E
Garfield Co., Utah

U. S. Geological Survey
8416 Federal Building
Salt Lake City, Utah 84111

Attention: Mr. Gerald Daniels

Gentlemen:

The enclosed revised Application for Permit to Drill modifies the original form with respect to surface casing. You will note that we have anticipated setting 160' of 13-3/8" surface casing followed by 1800' of 8-5/8" casing. Due to several lost circulation zones from surface to approximately 1800', we have deemed this program necessary.

In the event that no lost circulation zones are encountered, we will not set the intermediate string of 8-5/8" casing.

If you have any questions regarding this matter, please call me collect.

Respectfully,

WEBB RESOURCES, INC.

John P. Weldon

John P. Weldon
Geologist

JPW:sm
enc
cc: Utah Oil & Gas Commission
1588 West North Temple
Salt Lake City, Utah 84116

Form 9-331 C
(May 1963)

REVISED

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-8269

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: Collett Federal Unit

8. FARM OR LEASE NAME: Federal

9. WELL NO.: #17-16

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 17-37S-5E

1a. TYPE OF WORK: DRILL ☒ DEEPEN ☐ PLUG BACK ☐

b. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ OTHER SINGLE ZONE ☐ MULTIPLE ZONE ☐

2. NAME OF OPERATOR: Webb Resources, Inc.

3. ADDRESS OF OPERATOR: 1776 Lincoln Street Denver, Colorado 80203

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 760' FSL & 600' FEL SE SE Section 17
At proposed prod. zone: Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 26 miles ESE from Escalante, Utah

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19. PROPOSED DEPTH: 3850'

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 5470' Ground Level (Surveyed)

22. APPROX. DATE WORK WILL START*: IMMEDIATELY

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
15"	13-3/8"	48#	160'	Sufficent to fill to
12-1/4"	8-5/8"	24#	1800'	Surface.

NOTE: surface casing revision set out above.

APPROVED BY DIVISION OF
OIL & GAS CONSERVATION

DATE 4-6-71

BY Paul W. Burchell

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.

SIGNED John V. Weldon TITLE Geologist DATE 4-2-71

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

Submit in triplicate

DESIGNATION OF AGENT

Supervisor, Oil and Gas Operations:

The undersigned is, on the records of the Geological Survey, Unit Operator under the Collett unit agreement, Garfield County, Utah (state), No. 14-08-0001-11720 approved August 5, 1970 and hereby designates:

NAME: Webb Resources, Inc.

ADDRESS: 1776 Lincoln Street, Denver, Colorado 80203

as its agent, with full authority to act in its behalf in complying with the terms of the Unit Agreement and regulations applicable therato and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Oil and Gas Operating Regulations with respect to drilling, testing and completing unit well No. 2, in the SE ¼ SE ¼ sec. 17, T. 37S., R. 5E., SLM., Garfield County, Utah.

It is understood that this designation of agent does not relieve the Unit Operator of responsibility for compliance with the terms of the unit agreement and the Oil and Gas Operating Regulations. It is also understood that this designation of agent does not consitute an assignment of any interest under the unit agreement or any lease committed thereto.

In case of default on the part of the designated agent, the Unit Operator will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The Unit Operator agrees promptly to notify the oil and gas supervisor of any change in the designated agent.

This designation of agent is deemed to be temporary and in no manner a permanent arrangement.

This designation is given only to enable the agent herein designated to drill the above-specified unit well. Unless sooner terminated, this designation shall terminate when there is filed in the appropriate district office of the U. S. Geological Survey a completed file of all required Federal reports pertaining to subject well. It is also understood that this designation of agent is limited to field operations and does not cover administrative action requiring specific authorization of the Unit Operator.

GULF OIL CORPORATION
Unit Operator

March 25, 1971
Date

By: R E Wyck
Attorney in Fact

SMITH

SMITH DRILLING FLUIDS, INC.

P. O. BOX 1999 FARMINGTON, NEW MEXICO 87401

April 9-71

OFC. 325-1391 RES. 325-1108

SERVICE ENGINEER'S TEST REPORT

CHECK NO. / DISTRICT DAY DATE Apr-8-71

Operator Webb Resources, Inc. Attn. Mr. Bill Crismon

Contractor Barker Drlg. Co. Attn. Mr. Vern Powers

Location Fed. 17-16 Field Wildcat County Garfield State Utah

Mud Volume Pits 150± Hole 150± Total 300± Pits Bbls/ In.

Present Depth 2265 Feet: Hole Size 7 7/8 Inch.: Last Casing Depth 200 Ft. Size 13 3/8 In.

	2265	2576	
Weight, Lb./Gal. ☑	9.4	9.2	Operation Drilling
Hyd. Head, P.S.I./100'			Pump, Size SPM
Circulating Density, P.P.G.			Pressure, P.S.I. B.P.M. G.P.M.
Viscosity, Funnel	38	40	Ann. Vel., Ft./Min., Hole Casing
Viscosity—600 RPM CPE	30	31	Circ. Time, Min Lag Time, Min.
Plastic Viscosity, C.P.E.	20	20	Drill String, Pipe Collars No.
Yield Value, (Lb./100 Sq. Ft.)	12	12	Bit Size Type Run No.
Gel. Strength, Grams Initial	2	1	R.P.M. Wt. on Bit String Wt.
Gel. Strength, Grams 10 Minutes	4	3	Flow Line Temp., °F. B.H.T. °F.
Filtrate, cc A.P.I. ☑	8.0	8.2	Resistivity, OHMS/M³M @ °F.
Cake, 32"/Texture	2/32	2/32	Desander, Underflow Wt. Vol. GPM
pH, Indicator ☑ Beckman ☐	8.5	8.5	Alkalinity, cc N/50 Acid P. M.
Sand Content, %/Vol.	4%		EPM, OH CO_3 HCO_3
Oil Content, %/Vol. Est.	5%		Versenate, V_F V_M
Solids Content, %/Vol.			Hardness, PPM Total Calcium EPM
Loss Material, %/Vol. ☑	10%	10%	Traces, Ca ✓ SO_4 ✓ Mg ✓
Preservative, Lbs./Bbl.			Salt, PPM Chlorides, PPM
Lbs./Bbl. (Excess) Lime ☐			Loss Zones @
			Pressure Zones @ PSI
			Dev. @ Ft.— ° FT/HR.

Remarks and Recommendations:

Would hold wt. 9.0#/gal.

Suggest viscosity 38-40 sec/qt.

Add each 8 Hrs.

1 sx. Soda Ash

1 sx. Caustic

1 sx. Petro Flo

1 sx. - 007

1/2 sx. C.M.C.

5 gals. Soap

Lost mats as needed

[signature] Loc. or (D) Motel #2

SERVICE ENGINEER TELEPHONE EXCHANGE MOBILE SERVICE WHSE. NO. & LOCATION

JOHNSTON

technical report

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P.O. BOX 36369 • HOUSTON, TEXAS

CONFIRMATION OF TECHNICAL REPORT DISTRIBUTION

CUSTOMER WEBB RESOURCES, INC. **FIELD REPORT NO.** 18385 B **DATE** 4-10-71

COMPANY SAME AS ABOVE **LEASE** FEDERAL **WELL NO.** 17-16

COUNTY GARFIELD **STATE** UTAH **FIELD** WILD CAT

JOHNSTON TESTERS HAS BEEN REQUESTED TO FURNISH THE FOLLOWING COMPANIES WITH TECHNICAL REPORTS. THIS DISTRIBUTION OF TECHNICAL REPORTS WILL BE USED FOR: ☑ ALL TESTS ON THIS WELL, ☐ THIS ONE TEST ONLY, UNLESS OTHERWISE NOTIFIED.

2 TECHNICAL REPORT (S)
WEBB RESOURCES, INC.
1776 LINCOLN STREET
DENVER, COLORADO 80203

2 TECHNICAL REPORT (S)
U. S. GEOLOGICAL SURVEY
8416 FEDERAL BUILDING
SALT LAKE CITY, UTAH 84111
ATTN: MR. GERALD DANIELS

2 TECHNICAL REPORT (S)
UTAH OIL AND GAS CONSERVATION
1588 WEST NORTH TEMPLE
SALT LAKE CITY, UTAH 84116
ATTN: MR. PAUL BUREHELL

2 TECHNICAL REPORT (S)
SUN OIL COMPANY
BOX 1798
DENVER, COLORADO 80201
ATTN: GEOLOGICAL DEPARTMENT

2 TECHNICAL REPORT (S)
GULF OIL CORPORATION
BOX 1938
ROSWELL, NEW MEXICO 88201

2 TECHNICAL REPORT (S)
CHAMPLIN PETROLEUM COMPANY
BOX 1257
ENGLEWOOD, COLORADO 80110
ATTN: MR. SAKOWSKI

TECHNICAL REPORT (S)

TECHNICAL REPORT (S)

TECHNICAL REPORT (S)

TECHNICAL REPORT (S)

It is our pleasure to be of service.

JOHNSTON

JOHNSTON

technical report

JOHNSTON
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SURFACE INFORMATION

Description (Rate of Flow)	Time	Pressure (P.S.I.G.)	Surface Choke
Opened Tool	1435	-	-
STRONG BLOW			
CLOSED FOR INITIAL SHUT-IN	1450	-	-
FINISHED SHUT-IN	1535	-	-
RE-OPENED TOOL	1540	-	-
NO BLOW			
CLOSED FOR FINAL SHUT-IN	1620	-	-
FINISHED SHUT-IN	1705	-	-
PULLED PACKER LOOSE	1710	-	-

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

MUD DATA

Mud Type: OIL BASE Wt.: 9.2
Viscosity: 40 Water Loss: 6 C.C.
Resist: of Mud 1.9 @ 68 °F; of Filtrate 1.6 @ 68 °F
Chloride Content: 300 PPM

EQUIPMENT & HOLE DATA

Type Test: M. F. E. OPEN HOLE
Formation Tested: SHINARUMP
Elevation: 5481 Ft.
Net Productive Interval: 157 Ft.
Estimated Porosity: 15 %
All Depths Measured From: KELLY BUSHING
Total Depth: 2805 Ft.
Main Hole/Casing Size: 7 7/8"
Rat Hole/Liner Size: -
Drill Collar Length: 250' I.D. 2.75"
Drill Pipe Length: 2321' I.D. 3.80"
Packer Depth(s): 2601 & 2605 Ft.

MULTI-FLOW EVALUATOR FLUID SAMPLE DATA

Sampler Pressure: - P.S.I.G. at Surface
Recovery: Cu. Ft. Gas: -
cc. Oil: -
cc. Water: 1500
cc. Mud: 900
Tot. Liquid cc.: 2400
Gravity: - °API @ - °F.
Gas/Oil Ratio: - cu. ft./bbl.

	RESISTIVITY	CHLORIDE CONTENT
Recovery Water	- @ - °F.	- ppm
Recovery Mud	- @ - °F.	
Recovery Mud Filtrate	1.6 @ 68 °F.	450 ppm
Mud Pit Sample	1.9 @ 68 °F.	
Mud Pit Sample Filtrate	1.6 @ 68 °F.	300 ppm

RECOVERY DESCRIPTION	FEET	BARRELS	% OIL	% WATER	% OTHERS	API GRAVITY	RESISTIVITY	CHL. PPM
MUD	877	12.45				@ °F.	1.9 @ 68 °F.	300
WATER	823	9.97				@ °F.	1.6 @ 68 °F.	450
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	

Remarks:

Address: 1776 LINCOLN STREET; DENVER, COLORADO 80203
Company: WEBB RESOURCES, INC. Field: WILD CAT
Well: FEDERAL #17-16 Location: SE SE 17-T37S-R5E
Test Interval: 2605' TO 2805' Test #: 1 Date: 4-10-71
County: GARFIELD State: UTAH
Technician: BEYER (VERNAL) Test Approved By: MR. B. D. CRISMON
Field Report No.: 18385 B
No. Reports Requested: 12 (5x's)

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PRESSURE DATA

Instrument No.		J-431		
Capacity (P.S.I.G.)		2800		
Instrument Depth		2610'		
Instrument Opening		INSIDE		
Pressure Gradient P.S.I./Ft.				
Well Temperature °F.		90		
Initial Hydrostatic Mud	A	1359		
Initial Shut-in	B	775		
Initial Flow	C	581		
	C-1	767		
	C-2	776		
Final Flow	D	779		
Final Shut-in	E	780		
Final Hydrostatic Mud	F	1346		

Field Report No. 18385 B

TIME DATA

Time Given	Time Computed
45 Mins.	Mins.
15 Mins.	Mins.
- Mins.	Mins.
- Mins.	Mins.
40 Mins.	Mins.
45 Mins.	Mins.

Remarks:

**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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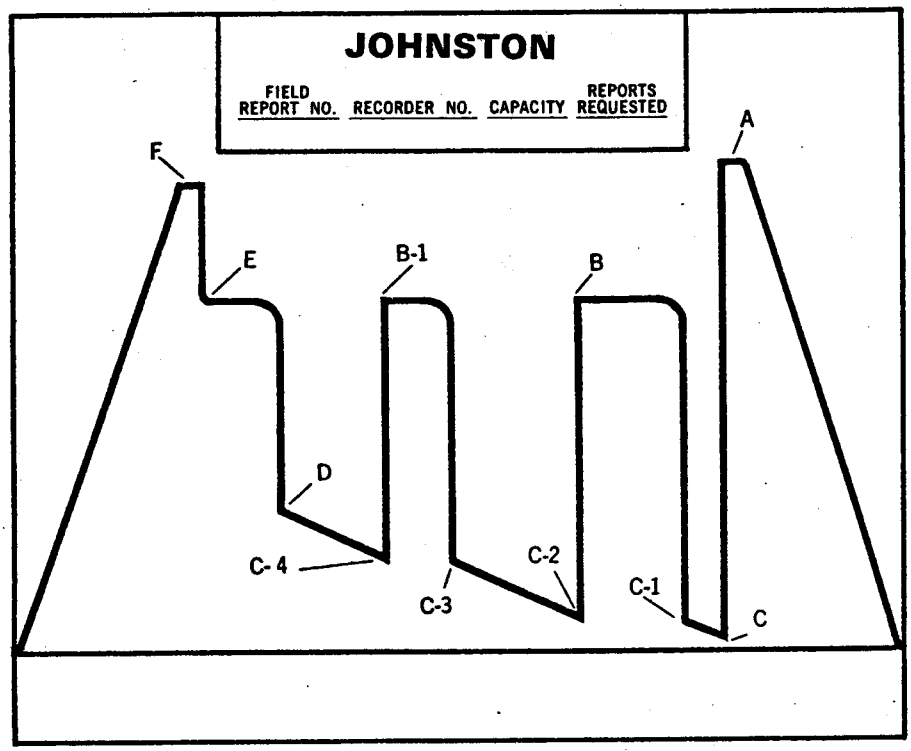
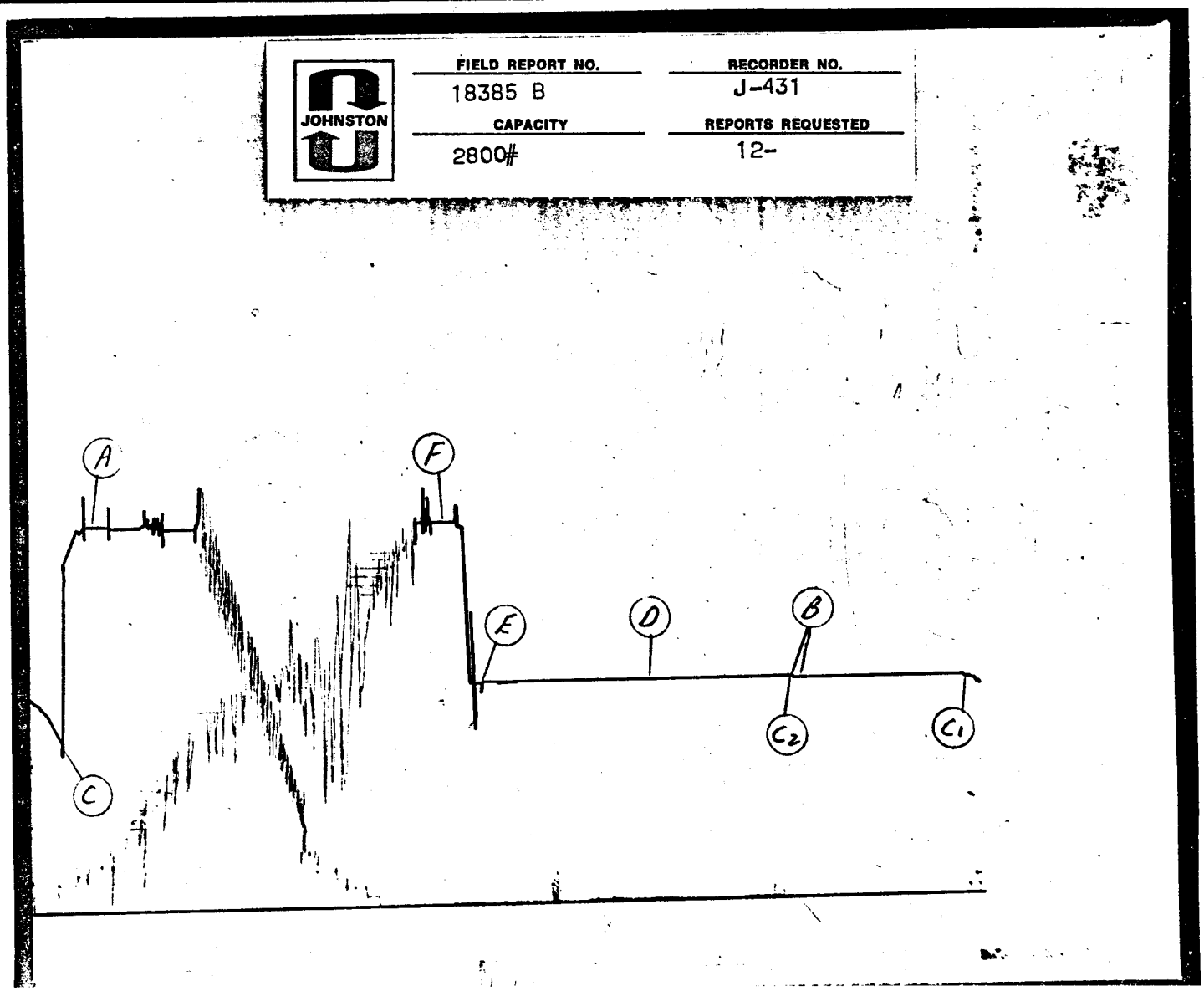
GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



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

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
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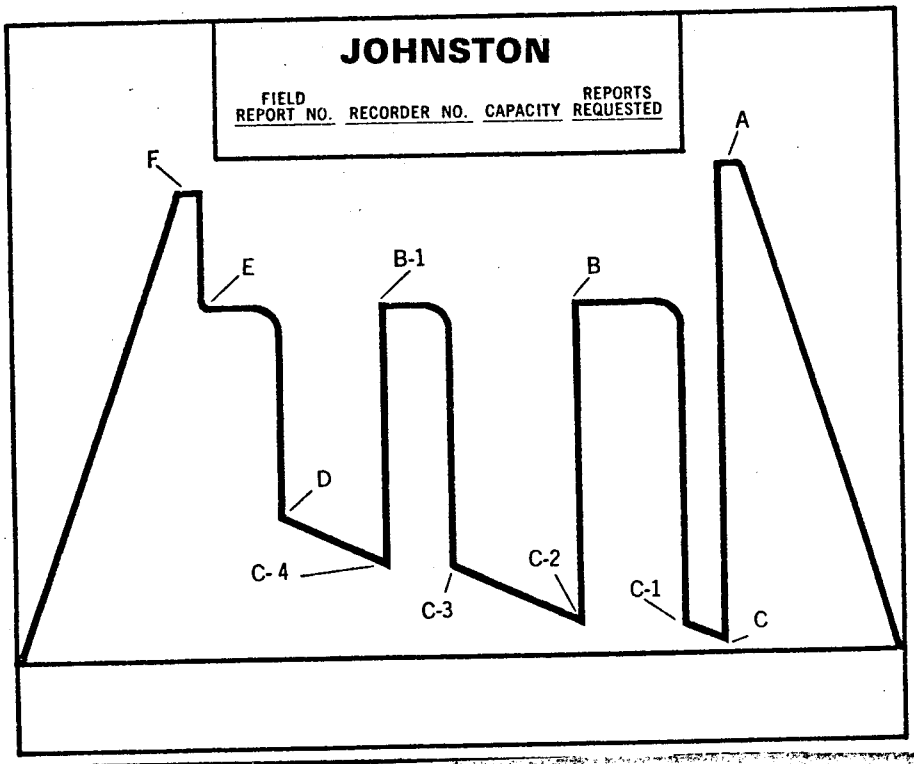

A. Initial Hyd. Mud
B. Initial Shut-in
C. Initial Flow
D. Final Flow
E. Final Shut-in
F. Final Hyd. Mud

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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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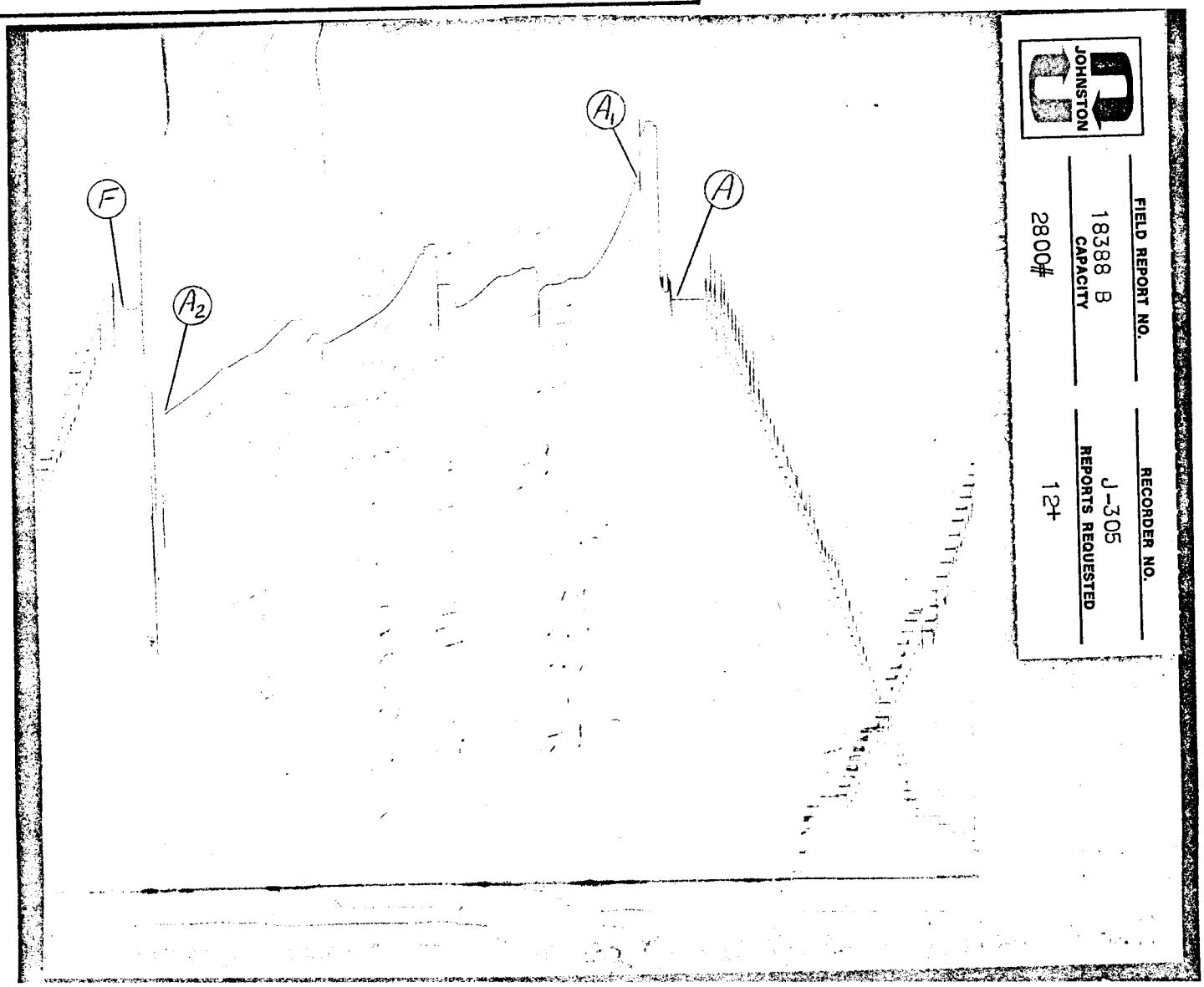

JOHNSTON
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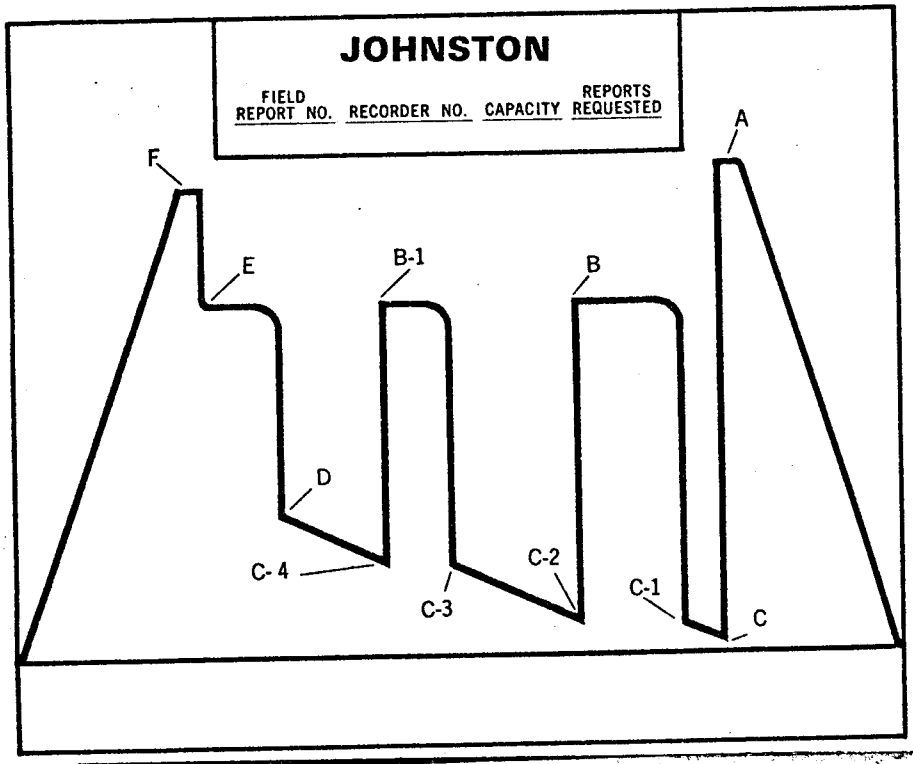
GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



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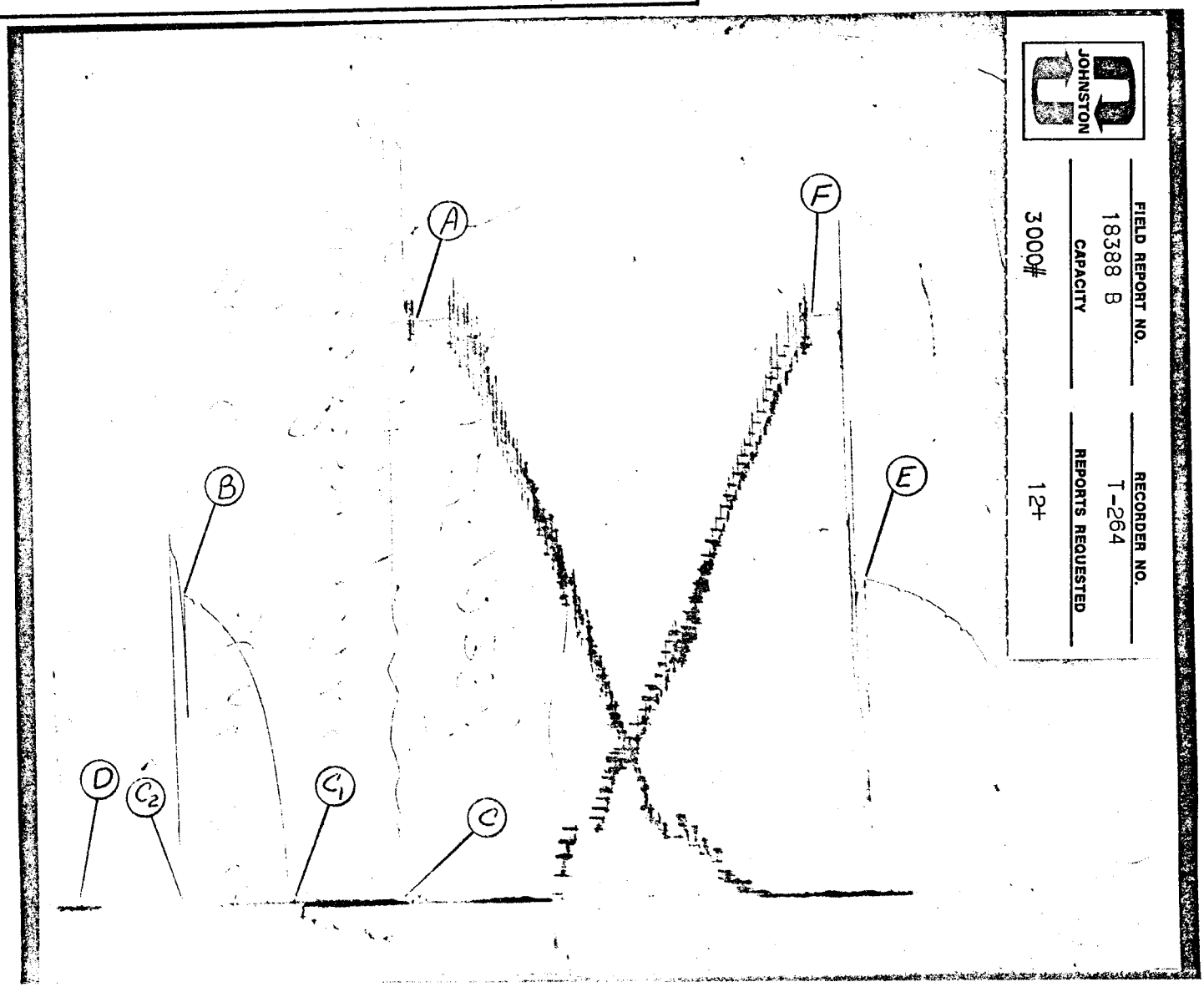
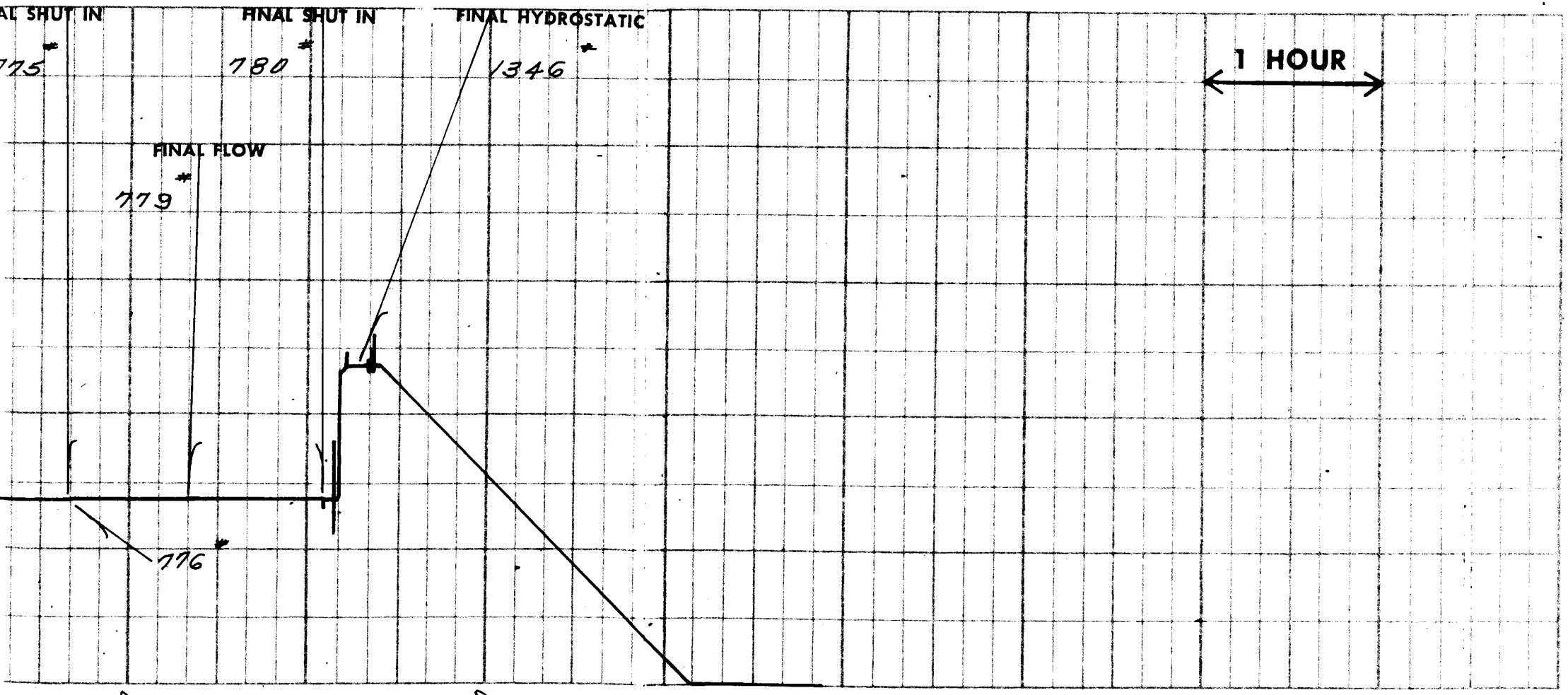
B-1, B-2, B-3, etc. Subsequent Shut-in Pressures
C-1, C-2, C-3, etc. Flowing Pressures
D-1, D-2, D-3, etc. Subsequent Final Flow Pressures
E-1, E-2, E-3, etc. Subsequent Final Shut-in Pressures
F-1, F-2, F-3, etc. Final Hyd. Mud Pressures
Z — Special pressure points such as pumping pressure recorded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




AL SHUT IN
775 #
FINAL SHUT IN
780 #
FINAL HYDROSTATIC
1346 #
1 HOUR
FINAL FLOW
779 #
776 #
1600
1700
1800

Form J-228a

JOHNSTON

PRESSURE LOG*

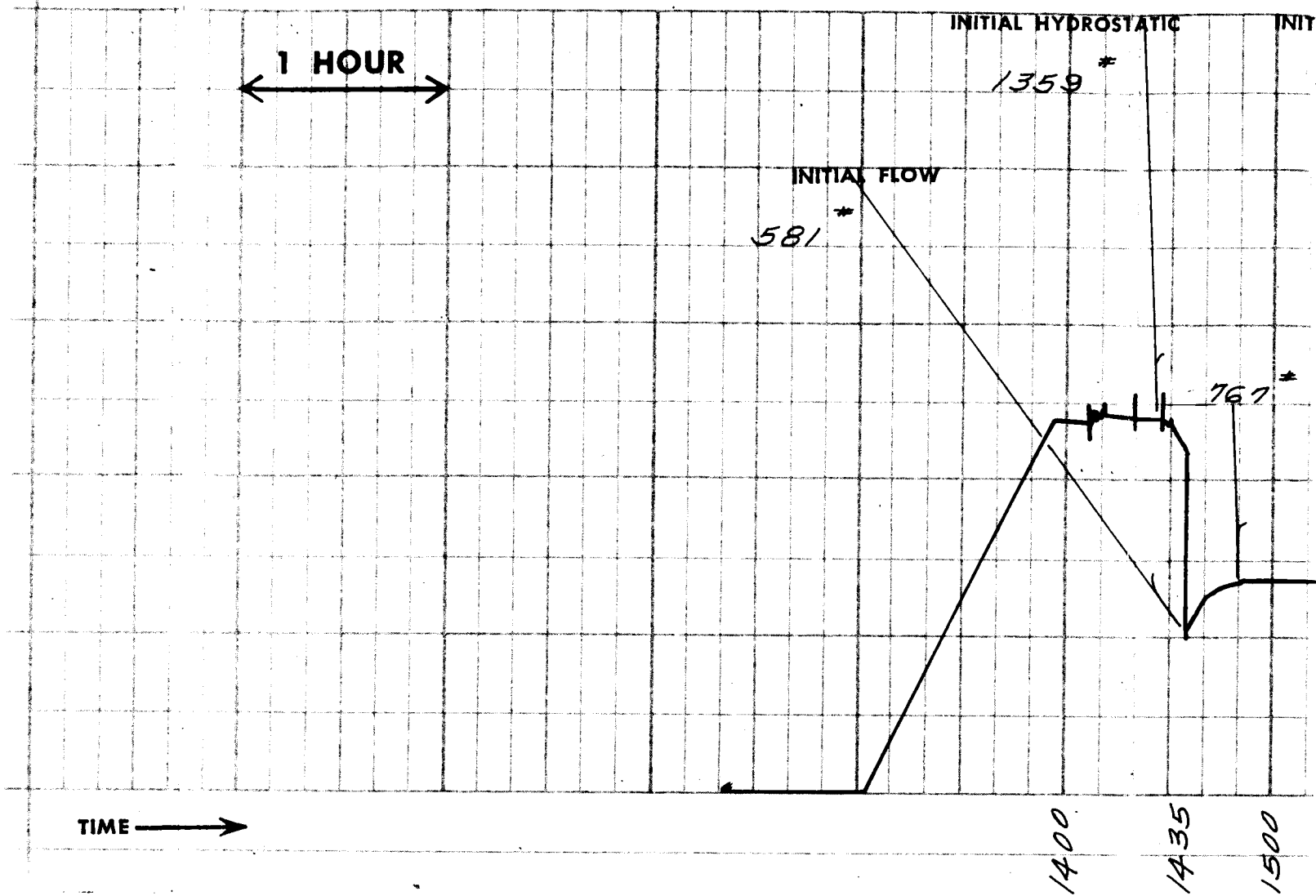
Field Report No. 18385B

Instrument: Number J-431

Capacity 2800 p.s.i.

Depth 2610 ft.

*a continuous tracing of the original chart



SMITH

SMITH DRILLING FLUIDS, INC.

P. O. BOX 1999 FARMINGTON, NEW MEXICO 87401

OFC. 325-1391 RES. 325-1108

April-14-71
April 12 '71
April 11-71

SERVICE ENGINEER'S TEST REPORT

CHECK NO. DISTRICT DAY DATE

Operator Webb Resources, Inc. Attn. Mr. Bill Crismon
Contractor Backer Drlg. Co. Attn. Mr. Vern Powers
Location Fed. 17-16 Field Wildcat County Garfield State Utah
Mud Volume Pits 160± Hole 170± Total 330± Pits Bbls/ In.
Present Depth 2939 Feet: Hole Size 7 7/8 Inch.: Last Casing Depth 300 Ft. Size 13 3/8 In.

	2939'	3201'	
Weight, Lb./Gal. ☑	9.4	9.0	Operation Drilling
Hyd. Head, P.S.I./100'			Pump, Size SPM
Circulating Density, P.P.G.			Pressure, P.S.I. B.P.M. G.P.M.
Viscosity, Funnel	44	55	Ann. Vel., Ft./Min., Hole Casing
Viscosity—600 RPM CPE	50		Circ. Time, Min Lag Time, Min.
Plastic Viscosity, C.P.E.	40		Drill String, Pipe Collars No.
Yield Value, (Lb./100 Sq. Ft.)	15		Bit Size Type Run No.
Gel. Strength, Grams Initial	6		R.P.M. Wt. on Bit String Wt.
Gel. Strength, Grams 10 Minutes	14		Flow Line Temp., °F. B.H.T. °F.
Filtrate, cc A.P.I. ☑ 7½	8.8	6.8	Resistivity, OHMS/M³M @ °F.
Cake, 32"/Texture	3/32	2/32	Desander, Underflow Wt. Vol. GPM
pH, Indicator ☑ Beckman ☐	8.5		Alkalinity, cc N/50 Acid P. M.
Sand Content, %/Vol.	4%		EPM, OH CO_3 HCO_3
Oil Content, %/Vol.			Versenate, V_F V_M
Solids Content, %/Vol.	3%		Hardness, PPM Total Calcium EPM
Loss Material, %/Vol. ☑	8%	20%	Traces, Ca 30 EPM SO_4 20 EPM Mg 20 EPM
Preservative, Lbs./Bbl.			Salt, PPM 250 Chlorides, PPM
Lbs./Bbl. (Excess) Lime ☐			Loss Zones @
			Pressure Zones @ PSI
			Dev. @ Ft. — ° FT/HR.

Remarks and Recommendations:

Suggest wt. 9.0 #/gal.
Viscosity 40-45 sec/qt.

Solids are high. Centipoise & Plastic
Viscosity are too high.
Add full 1 inch stream of water while
drilling & keep pits clean.

Add each 8 Hrs.
~~1 sx - Soda Ash~~
1 sx - Caustic
1 sx - Petro Flo
1 sx - 007
½ sx - C.M.C.
5 - Gals. Soap

Loss mats. 10%

Bill Smith | Loc. or Room-2 | (D) Motel

SERVICE ENGINEER TELEPHONE EXCHANGE MOBILE SERVICE WHSE. NO. & LOCATION

JOHNSTON

technical report

JOHNSTON
...found a better way

SURFACE INFORMATION

Description (Rate of Flow)	Time	Pressure (P.S.I.G.)	Surface Choke
Opened Tool	1931	-	-
WEAK BLOW INCREASING			
BLOW, 12" IN WATER	1934	-	-
CLOSED FOR INITIAL SHUT-IN	2001	-	-
FINISHED SHUT-IN	2046	-	-
RE-OPENED TOOL	2051	-	-
VERY WEAK BLOW INCREASING			
BLOW, 12" IN WATER DECREASING	2056	-	-
BLOW, 8" IN WATER	2230	-	-
CLOSED FOR FINAL SHUT-IN	2251	-	-
FINISHED SHUT-IN	2351	-	-
PULLED PACKER LOOSE	2355	-	-

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

MUD DATA

Mud Type: OIL BASE Wt.: 9.1
Viscosity: 50 Water Loss: 8.8 C.C.
Resist: of Mud 1.8 @ 68 °F; of Filtrate 1.4 @ 68 °F
Chloride Content: 250 PPM

EQUIPMENT & HOLE DATA

Type Test: M. F. E. OPEN HOLE
Formation Tested: KIABAB
Elevation: 5481 Ft.
Net Productive Interval: - Ft.
Estimated Porosity: - %
All Depths Measured From: KELLY BUSHING
Total Depth: 3402 Ft.
Main Hole/Casing Size: 7 7/8"
Rat Hole/Liner Size: -
Drill Collar Length: 501' I.D. 2.75"
Drill Pipe Length: 2795' I.D. 3.80"
Packer Depth(s): 3326 & 3330 Ft.

MULTI-FLOW EVALUATOR FLUID SAMPLE DATA

Sampler Pressure: - P.S.I.G. at Surface
Recovery: Cu. Ft. Gas: -
cc. Oil: -
cc. Water: 2220
cc. Mud: -
Tot. Liquid cc. 2220
Gravity: - °API @ - °F.
Gas/Oil Ratio: - cu. ft./bbl.

	RESISTIVITY	CHLORIDE CONTENT
Recovery Water	2.2 @ 62 °F.	150 ppm
Recovery Mud	- @ - °F.	
Recovery Mud Filtrate	- @ - °F.	- ppm
Mud Pit Sample	1.8 @ 68 °F.	
Mud Pit Sample Filtrate	1.4 @ 68 °F.	250 ppm

RECOVERY DESCRIPTION	FEET	BARRELS	% OIL	% WATER	% OTHERS	API GRAVITY	RESISTIVITY	CHL. PPM
MUD	434	6.16				@ °F.	1.4 @ 68 °F.	250
WATER	1566	18.78				@ °F.	2.2 @ 62 °F.	150
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	

Remarks:

Address: 1776 LINCOLN STREET; DENVER, COLORADO 80203
Company: WEBB RESOURCES, INC. Field: WILD CAT
Well: FEDERAL #17-16 Location: SEC.52-17T37S-R5E
Test Interval: 3330' TO 3402' Test #: 2 Date: 4-13-71
County: GARFIELD State: UTAH Field Report No. 18386 B
Technician: BEYER (VERNAL) Test Approved By: MR. B. D. CRISMON No. Reports Requested: 12 (5x's)

JOHNSTON
...found a better way

PRESSURE DATA

Instrument No.		J-305			
Capacity (P.S.I.G.)		2800			
Instrument Depth		3346'			
Instrument Opening		OUTSIDE			
Pressure Gradient P.S.I./Ft.					
Well Temperature °F.		92			
Initial Hydrostatic Mud	A	1690			
Initial Shut-in	B	* 1029			
Initial Flow	C	46			
	C-2	488			
	C-3	494			
Final Flow	D	954			
Final Shut-in	E	* 1031			
Final Hydrostatic Mud	F	1678			
Remarks:	C-1	224			

Field Report No. 18386 B

TIME DATA

	Time Given	Time Computed
Initial Shut-in	45 Mins.	Mins.
Initial Flow	30 Mins.	Mins.
C-2	- Mins.	Mins.
C-3	- Mins.	Mins.
Final Flow	120 Mins.	Mins.
Final Shut-in	60 Mins.	Mins.

**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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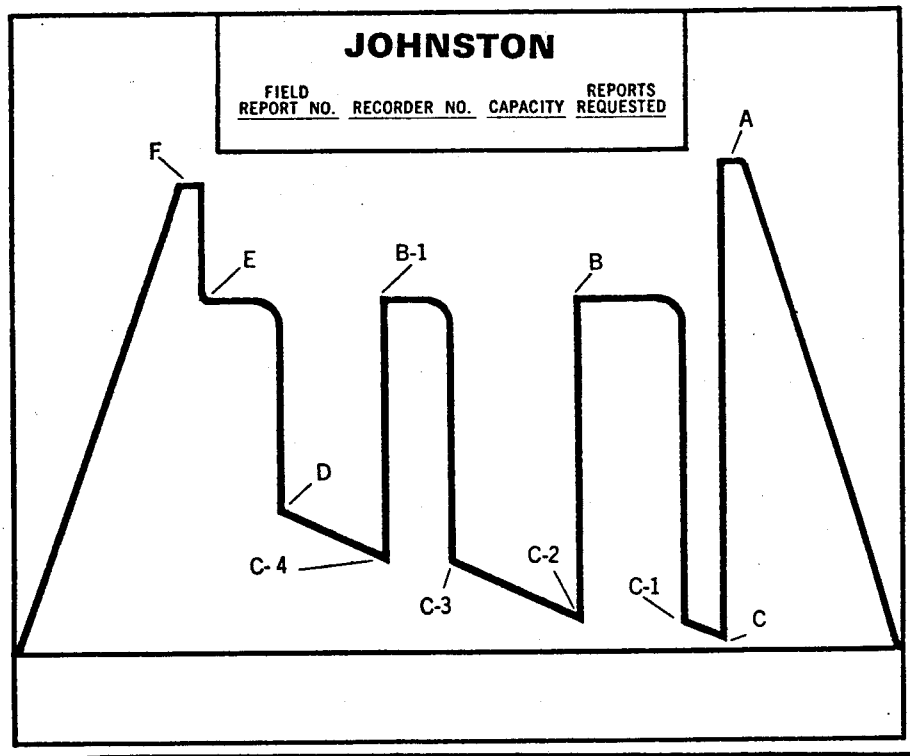
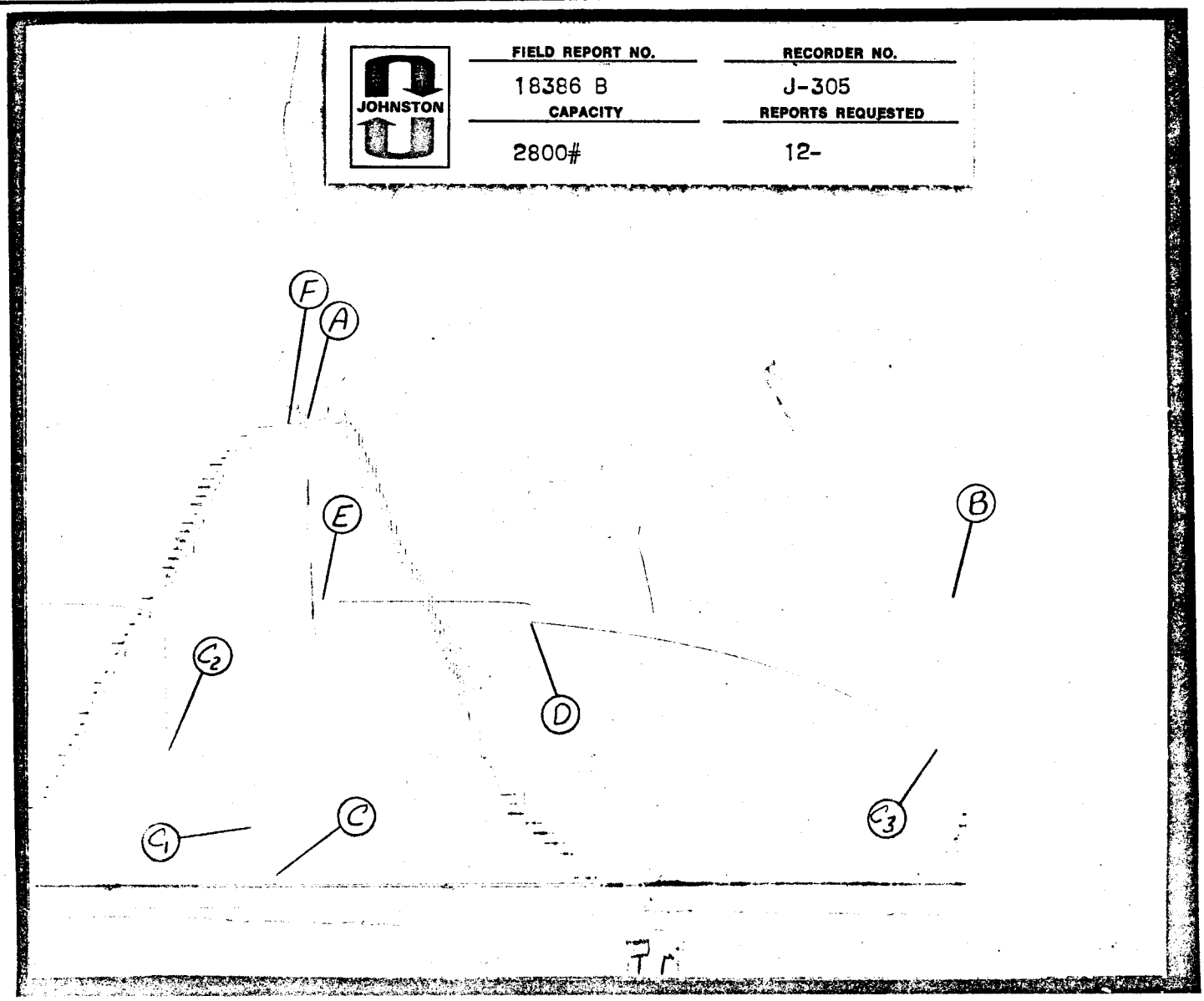
GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



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

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

PRESSURE LOG*

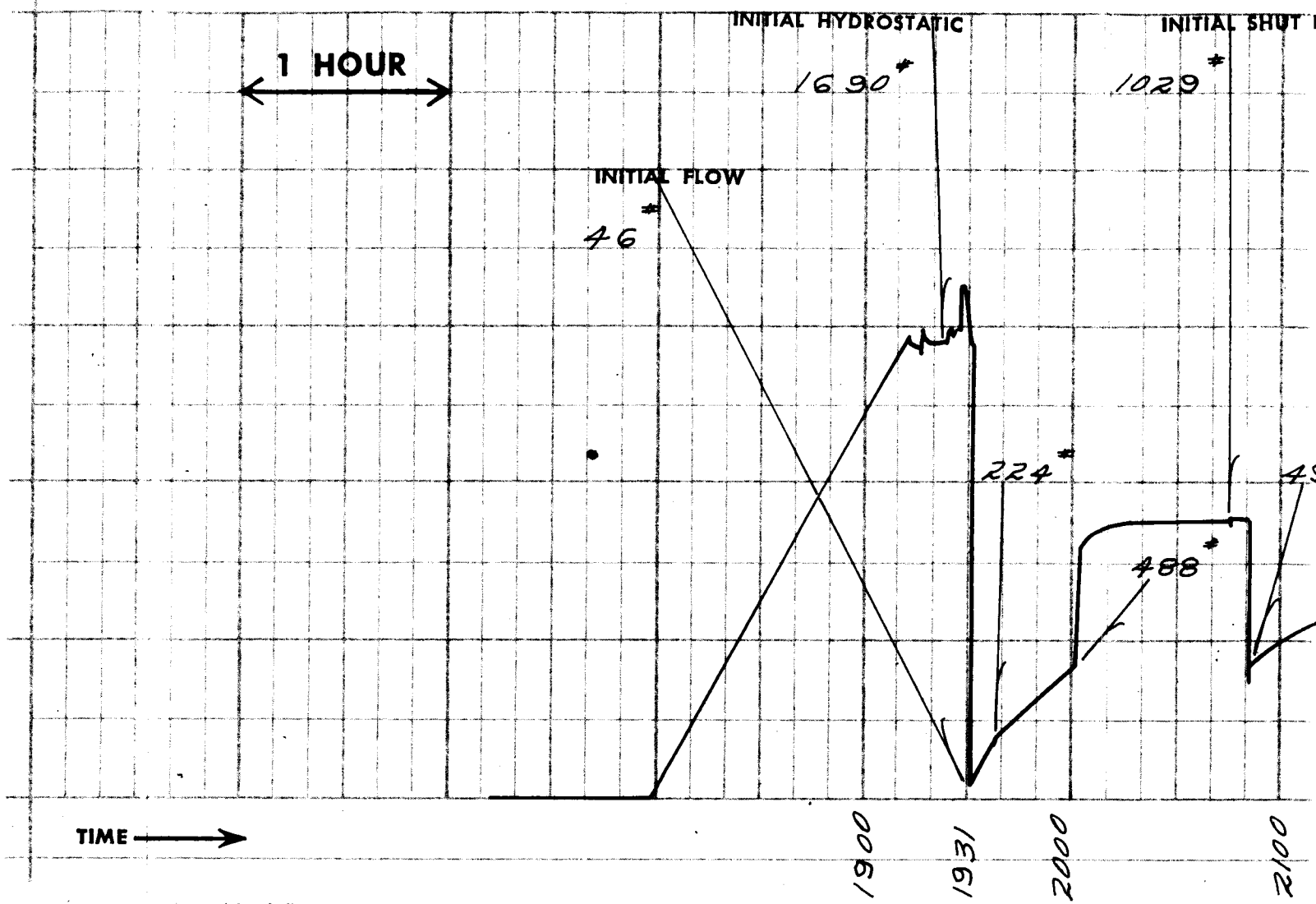
Field Report No. 18386B

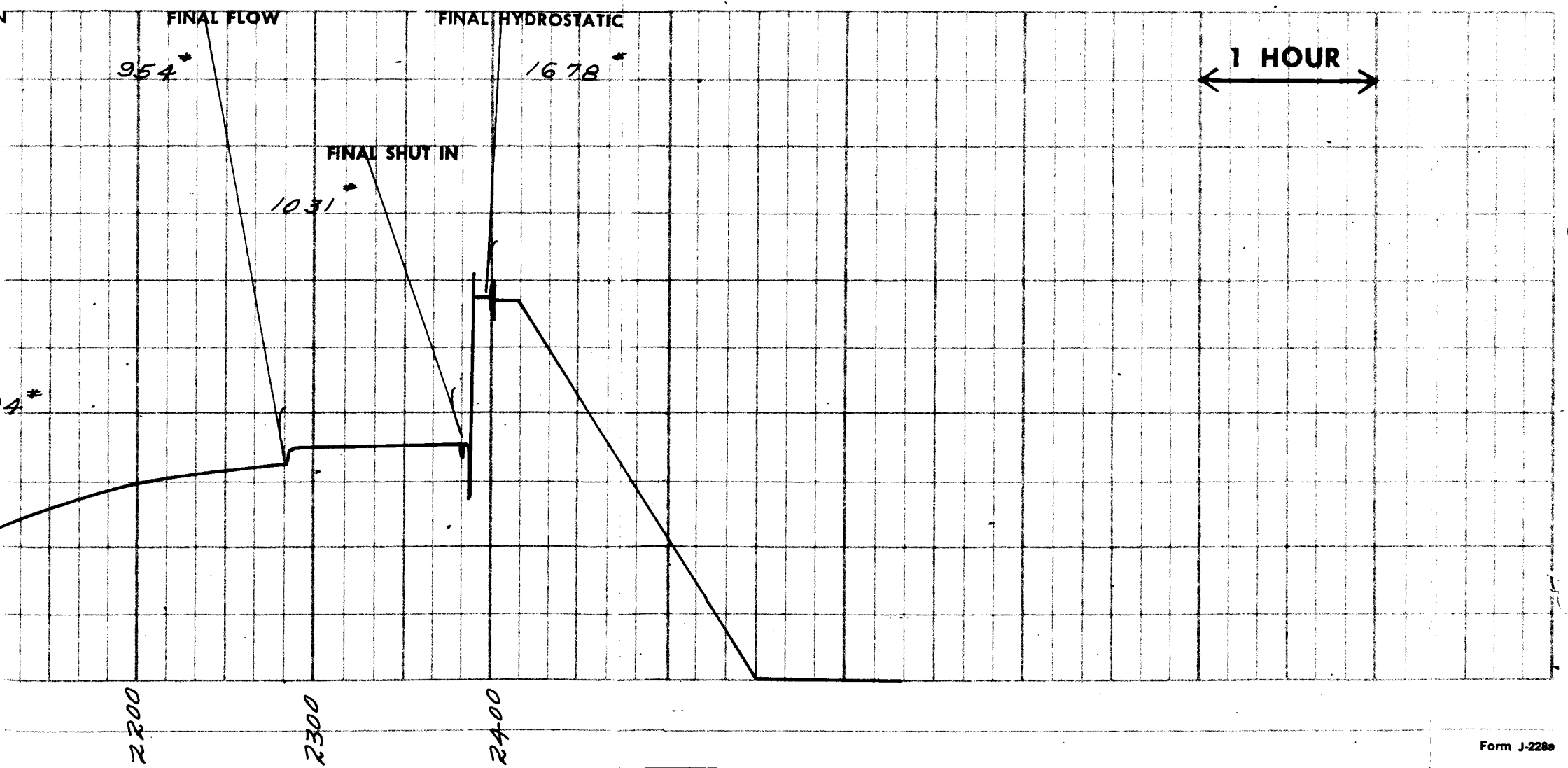
Instrument: Number J-305

Capacity 2800 p.s.i.

Depth 3346 ft.

*a continuous tracing of the original chart




FINAL FLOW
954#
FINAL HYDROSTATIC
1678#
1 HOUR
FINAL SHUT IN
1031#
4#
2200
2300
2400

Form J-228a

SMITH

SMITH DRILLING FLUIDS, INC.

P. O. BOX 1999 FARMINGTON, NEW MEXICO 87401

OFC. 325-1391 RES. 325-1108

SERVICE ENGINEER'S TEST REPORT

CHECK NO. DISTRICT DAY DATE APRIL 16-81

Operator WEBB RESOURCES, INC. Attn. Mr. BIRDSONG, CRISMON

Contractor BARKER DRLG. CO. Attn. Mr. VERN POWERS

Location FED 17-16 Field WILDCAT County GARFIELD State UTAH

Mud Volume Pits 200± Hole 200± Total 400± Pits Bbls/ In.

Present Depth 3965 Feet: Hole Size 7 7/8 Inch.: Last Casing Depth 200 Ft. Size 13 3/8 In.

Weight, Lb./Gal. ☑	9.4		Operation DRILLING
Hyd. Head, P.S.I./100'			Pump, Size SPM
Circulating Density, P.P.G.			Pressure, P.S.I. B.P.M. G.P.M.
Viscosity, Funnel	41		Ann. Vel., Ft./Min., Hole Casing
Viscosity—600 RPM CPE	36		Circ. Time, Min Lag Time, Min.
Plastic Viscosity, C.P.E.	22		Drill String, Pipe Collars No.
Yield Value, (Lb./100 Sq. Ft.)	12		Bit Size Type Run No.
Gel. Strength, Grams Initial	2		R.P.M. Wt. on Bit String Wt.
Gel. Strength, Grams 10 Minutes	8		Flow Line Temp., °F. B.H.T. °F.
Filtrate, cc A.P.I. ☑	10.0		Resistivity, OHMS/M³M @ °F.
Cake, 32"/Texture	2/32		Desander, Underflow Wt. Vol. GPM
pH, Indicator ☑, Beckman ☐	8.5		Alkalinity, cc N/50 Acid P. M.
Sand Content, %/Vol.	3%		EPM, OH CO_3 HCO_3
Oil Content, %/Vol.			Versenate, V_F V_M
Solids Content, %/Vol.	2%		Hardness, PPM Total Calcium EPM
Loss Material, %/Vol. ☐	8%		Traces, Ca HEAVY SO_4 HEAVY Mg HEAVY
Preservative, Lbs./Bbl.			Salt, PPM 250 Chlorides, PPM
Lbs./Bbl. (Excess) Lime ☐			Loss Zones @
			Pressure Zones @ PSI
			Dev. @ Ft. — ° FT/HR.

Remarks and Recommendations:

HOLD WT. 9.0 #/GAL.

MAINTAIN VIS - 40-45 SEC/QT. WHILE DRILLING.

RAISE VISCOSITY TO 55-60 SEC/QT. FOR LOGGING.

Add each 8 Hrs.

1 SX. SODA ASH

1 SX. CAUSTIC

2 SX. - 007

1 SX. PETRO FLO

1 SX. C.M.C.

LOST CIRC. MATS. AS NEEDED —

[signature] | LOC. OR CIRCLE "D" MOTEL - | R-2

SERVICE ENGINEER TELEPHONE EXCHANGE MOBILE SERVICE WHSE. NO. & LOCATION

JOHNSTON

technical report

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SURFACE INFORMATION

Description (Rate of Flow)	Time	Pressure (P.S.I.G.)	Surface Choke
Opened Tool	0823	-	-
VERY WEAK BLOW			
CLOSED FOR INITIAL SHUT-IN	0838	-	-
FINISHED SHUT-IN	0908	-	-
RE-OPENED TOOL	0914	-	-
NO BLOW			
CLOSED FOR FINAL SHUT-IN	1014	-	-
FINISHED SHUT-IN	1044	-	-
PULLED PACKER LOOSE	1050	-	-

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

MUD DATA

Mud Type: OIL BASE Wt.: 9.1
Viscosity: 79 Water Loss: 2.8 C.C.
Resist: of Mud 1.9 @ 68 °F; of Filtrate 1.4 @ 68 °F
Chloride Content: 250 PPM

EQUIPMENT & HOLE DATA

Type Test: M. F. E. STRADDLE OPEN HOLE
Formation Tested: CEDAR MESA
Elevation: 5481 Ft.
Net Productive Interval: 20 Ft.
Estimated Porosity: 17 %
All Depths Measured From: KELLY BUSHING
Total Depth: 4097 Ft.
Main Hole/Casing Size: 7 7/8"
Rat Hole/Liner Size: -
Drill Collar Length: 432' I.D. 2.75"
Drill Pipe Length: 3555' I.D. 3.80"
Packer Depth(s): 4022, 4026, & 4041 Ft.

MULTI-FLOW EVALUATOR FLUID SAMPLE DATA

Sampler Pressure: 20 P.S.I.G. at Surface
Recovery: Cu. Ft. Gas: -
cc. Oil: -
cc. Water: -
cc. Mud: 2200
Tot. Liquid cc.: 2200
Gravity: - °API @ - °F.
Gas/Oil Ratio: - cu. ft./bbl.

	RESISTIVITY	CHLORIDE CONTENT
Recovery Water	- @ - °F.	- ppm
Recovery Mud	- @ - °F.	
Recovery Mud Filtrate	1.9 @ 68 °F.	300 ppm
Mud Pit Sample	1.9 @ 68 °F.	
Mud Pit Sample Filtrate	1.4 @ 68 °F.	250 ppm

RECOVERY DESCRIPTION	FEET	BARRELS	% OIL	% WATER	% OTHERS	API GRAVITY	RESISTIVITY	CHL. PPM
PIT MUD	10	.07				@ °F.	1.9 @ 68 °F.	300
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	

Remarks:

Address: 1776 LINCOLN STREET; DENVER, COLORADO 80203
Company: WEBB RESOURCES, INC. Field: WILD CAT
Well: FEDERAL #17-16 Location: SEC.52-17T37S-R5E
Test Interval: 4026' TO 4041' Test #: 3 Date: 4-18-71
County: GARFIELD State: UTAH Field Report No.: 18387 B
Technician: BEYER (VERNAL) Test Approved By: MR. B. D. CRISMON No. Reports Requested: 12 (5x's)

JOHNSTON
...found a better way

PRESSURE DATA

Instrument No.		J-431	J-305	
Capacity (P.S.I.G.)		2800	2800	
Instrument Depth		4005'	4043'	
Instrument Opening		INSIDE	INSIDE	
Pressure Gradient P.S.I./Ft.				
Well Temperature °F.		95	95	
Initial Hydrostatic Mud	A	2080	2107	
Initial Shut-in	B	* 1158	-	
Initial Flow	C	5	-	
	C-1	5	-	
	C-2	16	-	
Final Flow	D	27	-	
Final Shut-in	E	* 1036	-	
Final Hydrostatic Mud	F	2072	2095	

Field Report No. 18387 B

TIME DATA

Time Given	Time Computed
30 Mins.	Mins.
15 Mins.	Mins.
- Mins.	Mins.
- Mins.	Mins.
60 Mins.	Mins.
30 Mins.	Mins.

Remarks: A-1 2142
A-2 1386

INSTRUMENT NUMBER J-305; BELOW STRADDLE

**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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PRESSURE DATA

Instrument No.		T-264	J-305		Field Report No. 18388 B
Capacity (P.S.I.G.)		3000	2800		
Instrument Depth		4042'	4058'		
Instrument Opening		OUTSIDE	INSIDE		
Pressure Gradient P.S.I./Ft.					TIME DATA
Well Temperature °F.		95	95		
					Time Given / Time Computed
Initial Hydrostatic Mud	A	2106	2110		
Initial Shut-in	B	* 1126	-		30 Mins. / Mins.
Initial Flow	C	16	-		30 Mins. / Mins.
	C-1	24	-		- Mins. / Mins.
	C-2	28	-		- Mins. / Mins.
Final Flow	D	31	-		30 Mins. / Mins.
Final Shut-in	E	* 1139	-		45 Mins. / Mins.
Final Hydrostatic Mud	F	2098	2108		

Remarks: A-1 2538
A-2 1729

INSTRUMENT NUMBER J-305; BELOW STRADDLE

**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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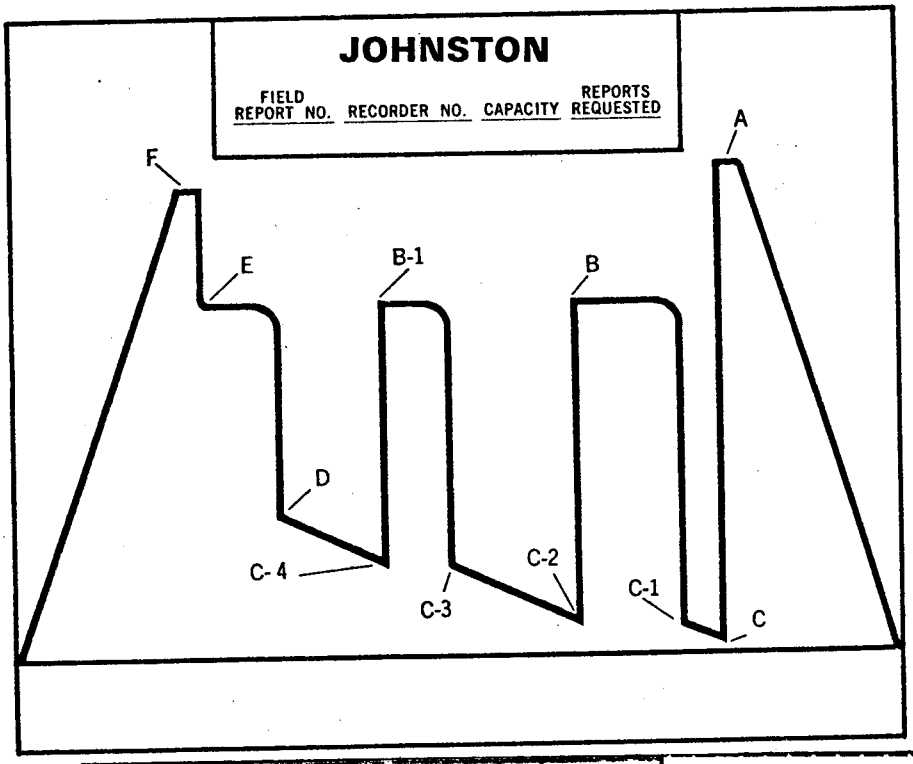
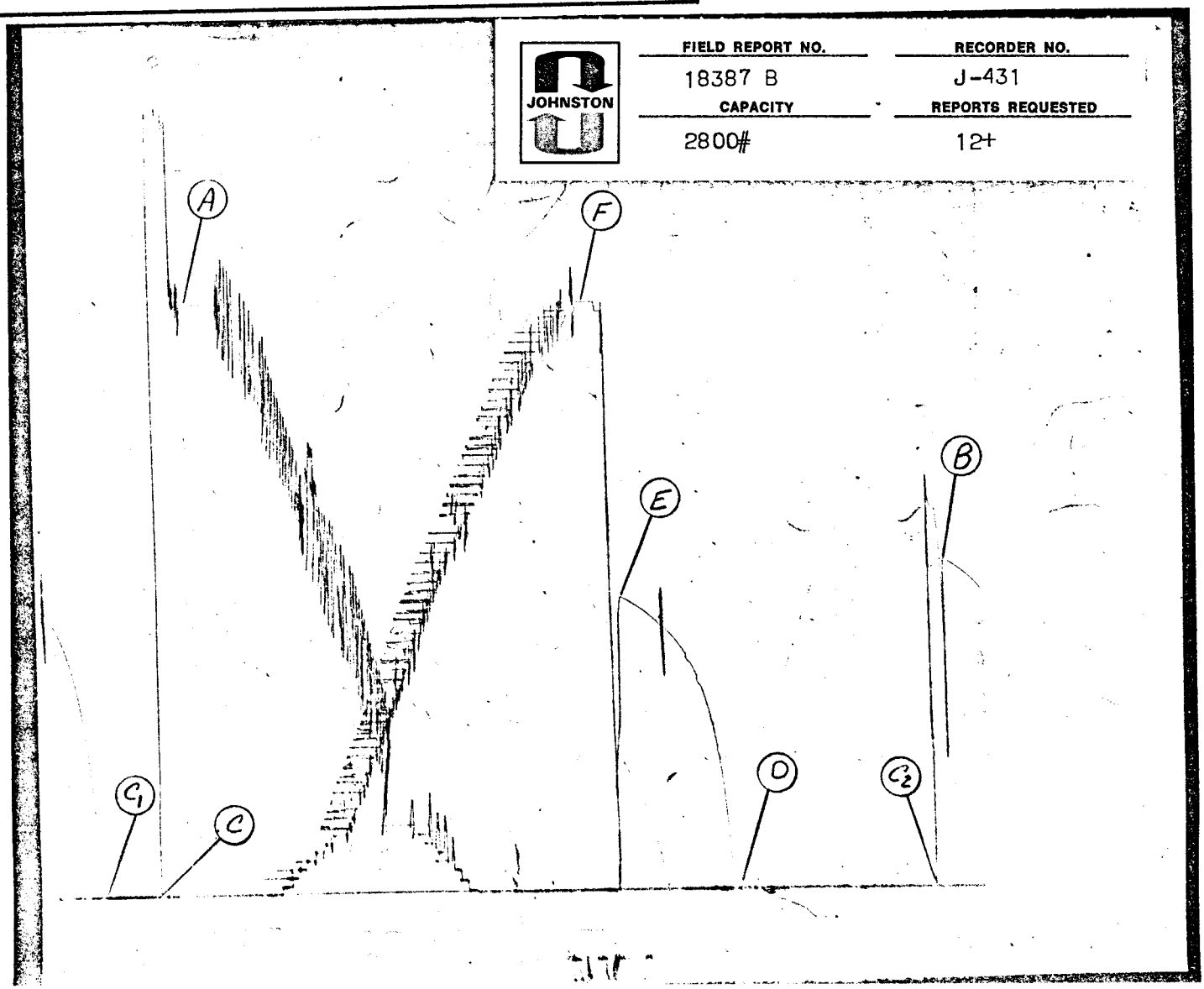
GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



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.



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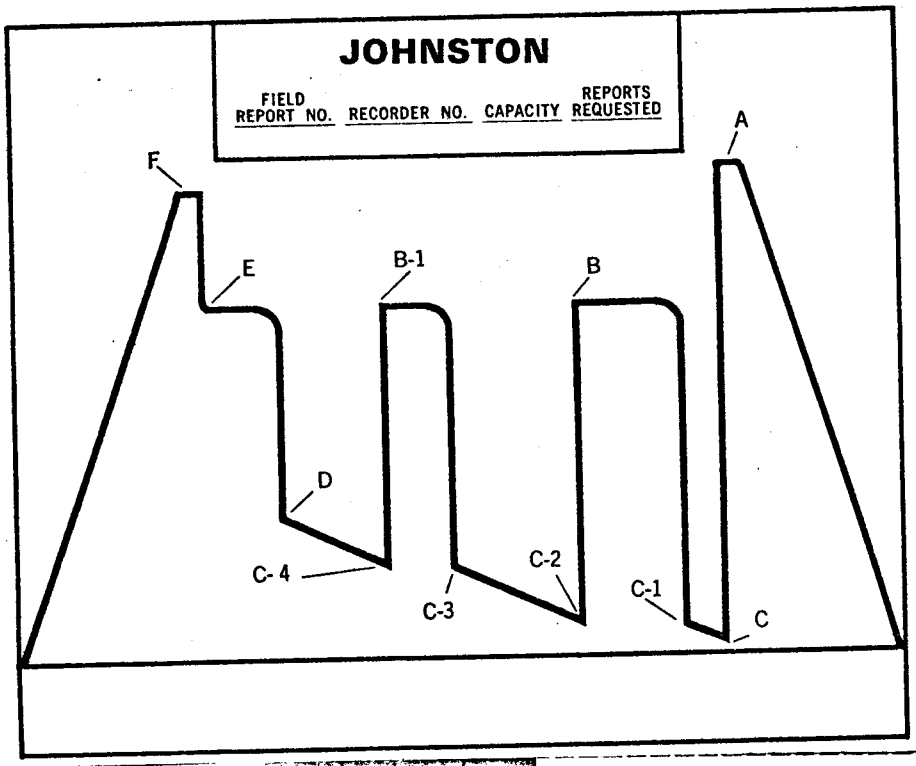
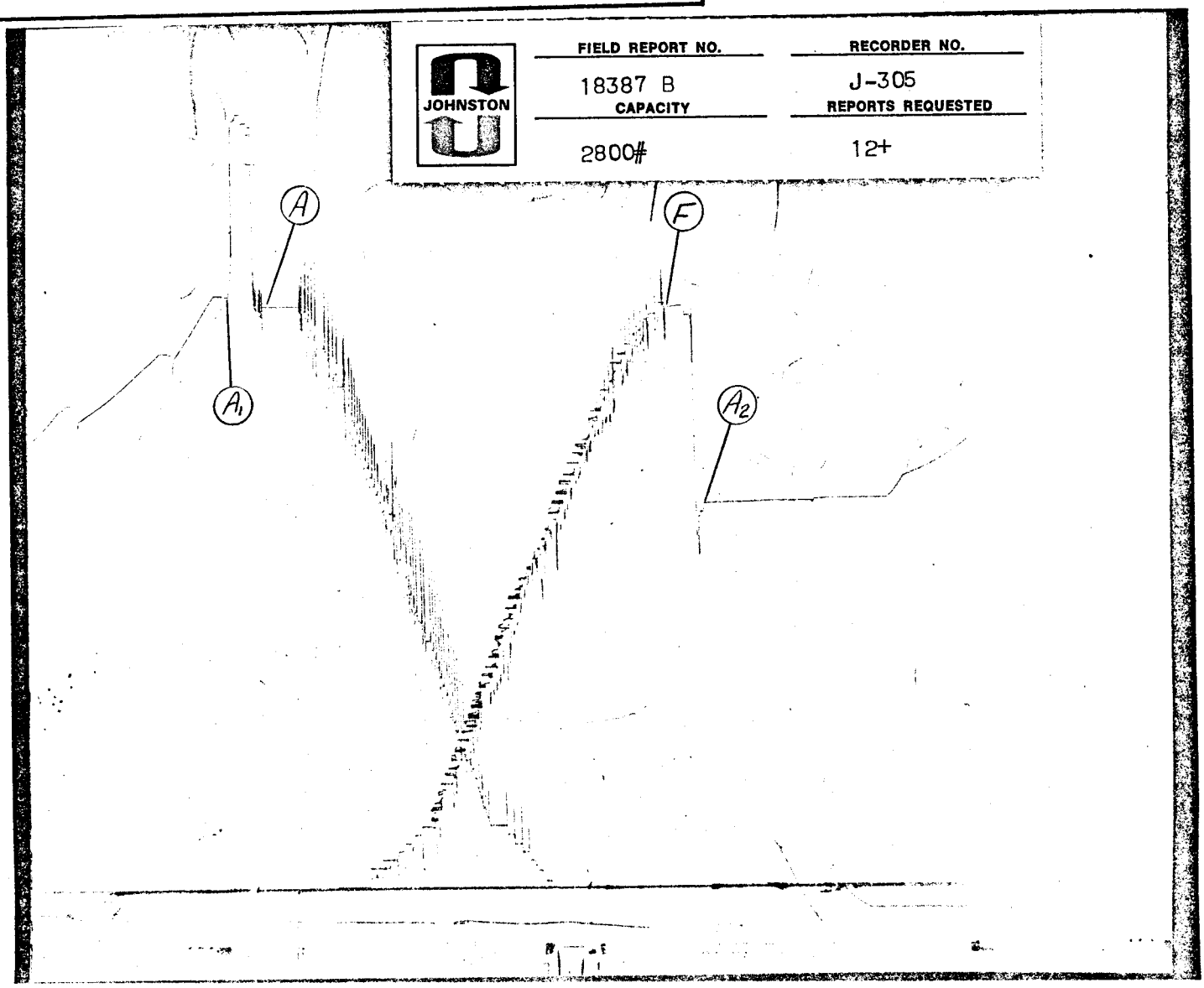
GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



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

PRESSURE LOG*

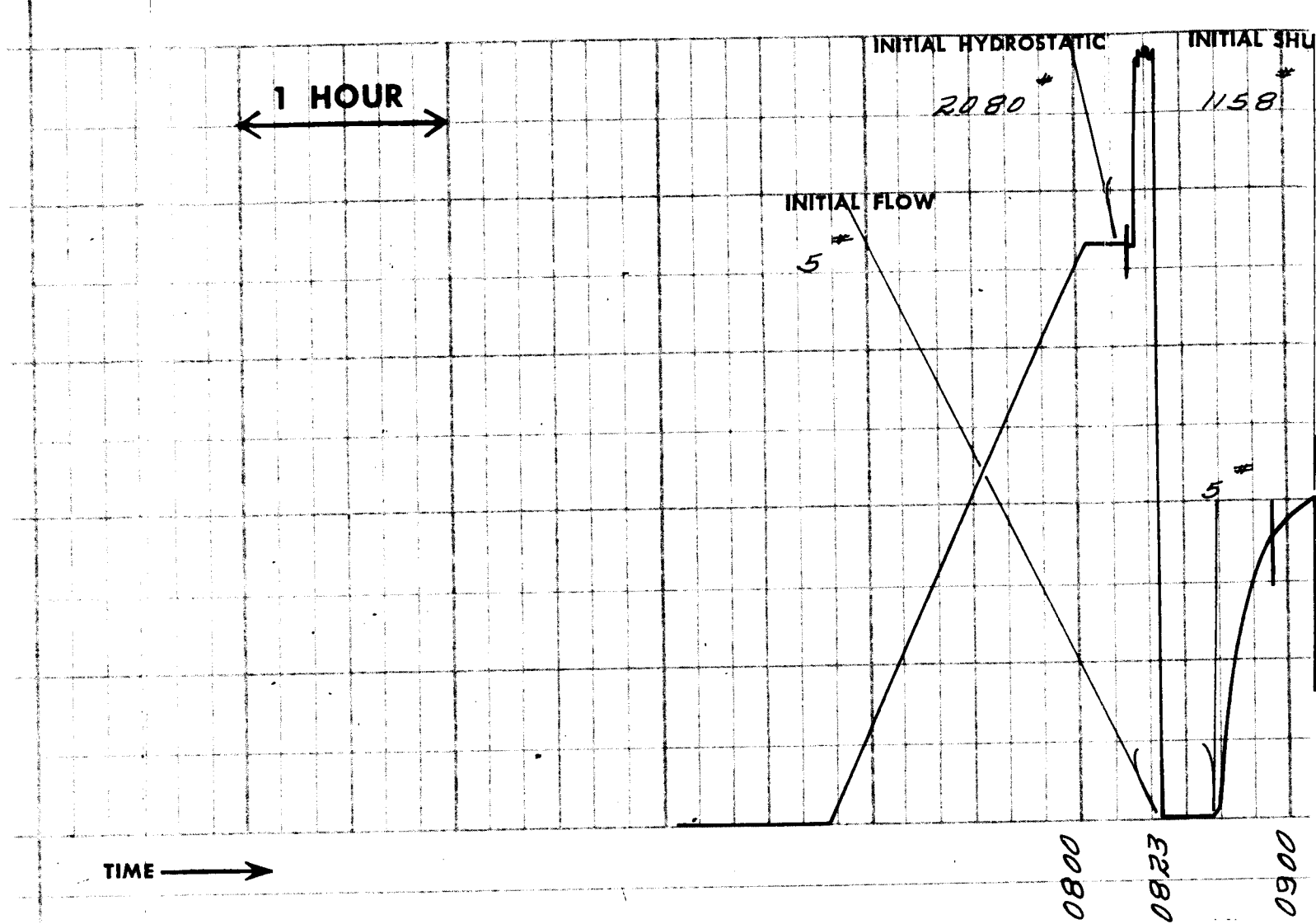
Field Report No. 18387B

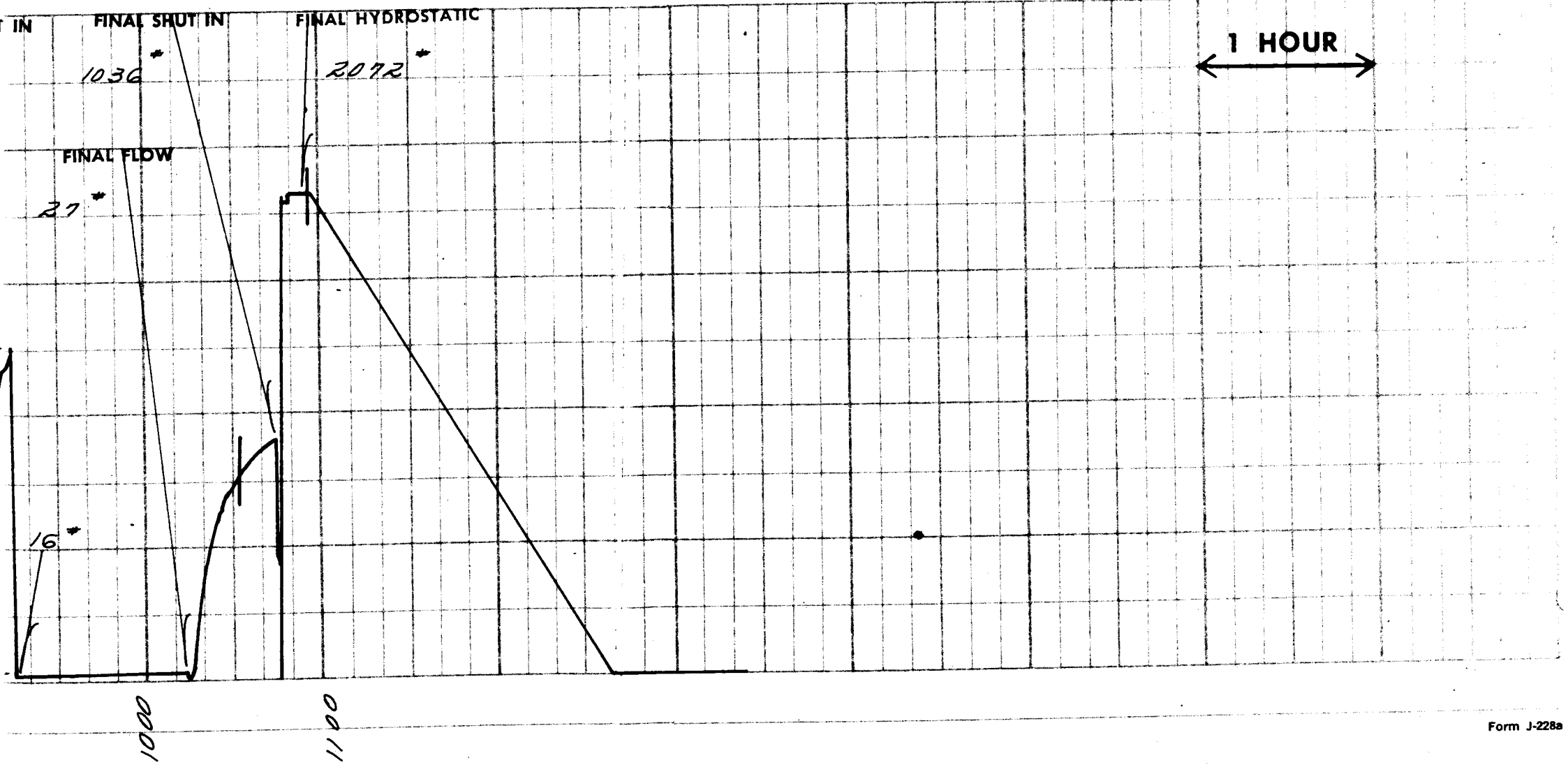
Instrument: Number J-431

Capacity 2800 p.s.i.

Depth 4005 ft.

*a continuous tracing of the original chart




IN
FINAL SHUT IN
1036 #
FINAL HYDROSTATIC
2072 #
1 HOUR
FINAL FLOW
27 #
16 #
1000
1100

Form J-228a

JOHNSTON

technical report

JOHNSTON
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SURFACE INFORMATION

Description (Rate of Flow)	Time	Pressure (P.S.I.G.)	Surface Choke
Opened Tool	2010	-	-
VERY WEAK BLOW, THEN DIED			
CLOSED FOR INITIAL SHUT-IN	2040	-	-
FINISHED SHUT-IN	2110	-	-
RE-OPENED TOOL	2115	-	-
NO BLOW			
CLOSED FOR FINAL SHUT-IN	2145	-	-
FINISHED SHUT-IN	2230	-	-
PULLED PACKER LOOSE	2238		

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

MUD DATA

Mud Type: OIL BASE Wt.: 9.1
Viscosity: 79 Water Loss: 2.8 C.C.
Resist: of Mud 1.9 @ 68 °F; of Filtrate 1.5 @ 68 °F
Chloride Content: 250 PPM

EQUIPMENT & HOLE DATA

Type Test: M. F. E. STRADDLE OPEN HOLE
Formation Tested: CEDAR MESA
Elevation: 5481 Ft.
Net Productive Interval: 26 Ft.
Estimated Porosity: 17 %
All Depths Measured From: KELLY BUSHING
Total Depth: 4097 Ft.
Main Hole/Casing Size: 7 7/8"
Rat Hole/Liner Size: -
Drill Collar Length: 432' I.D. 2.75"
Drill Pipe Length: 3555' I.D. 3.80"
Packer Depth(s): 4018, 4022, & 4048 Ft.

MULTI-FLOW EVALUATOR FLUID SAMPLE DATA

Sampler Pressure: 20 P.S.I.G. at Surface
Recovery: Cu. Ft. Gas: -
cc. Oil: -
cc. Water: -
cc. Mud: 2200
Tot. Liquid cc.: 2200
Gravity: - °API @ - °F.
Gas/Oil Ratio: - cu. ft./bbl.

	RESISTIVITY	CHLORIDE CONTENT
Recovery Water	- @ - °F.	- ppm
Recovery Mud	- @ - °F.	
Recovery Mud Filtrate	1.9 @ 68 °F.	300 ppm
Mud Pit Sample	1.9 @ 68 °F.	
Mud Pit Sample Filtrate	1.5 @ 68 °F.	250 ppm

RECOVERY DESCRIPTION	FEET	BARRELS	% OIL	% WATER	% OTHERS	API GRAVITY	RESISTIVITY	CHL. PPM
PIT MUD	10	.07				@ °F.	1.9 @ 68 °F.	300
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	

Remarks:

Address: 1776 LINCOLN STREET; DENVER, COLORADO 80203
Company: WEBB RESOURCES, INC. Field: WILD CAT
Well: FEDERAL #17-16 Location: SEC.52-17T37S-R5E
Test Interval: 4022' TO 4048' Test #: 4 Date: 4-18-71
County: GARFIELD State: UTAH Field Report No.: 18388 B
Technician: BEYER(VERNAL) Test Approved By: MR. B. D. CRISMON No. Reports Requested: 12 (5x's)

JOHNSTON
...found a better way

PRESSURE DATA

Instrument No.		T-264	J-305	
Capacity (P.S.I.G.)		3000	2800	
Instrument Depth		4042'	4058'	
Instrument Opening		OUTSIDE	INSIDE	
Pressure Gradient P.S.I./Ft.				
Well Temperature °F.		95	95	
Initial Hydrostatic Mud	A	2106	2110	
Initial Shut-in	B	* 1126	-	
Initial Flow	C	16	-	
	C-1	24	-	
	C-2	28	-	
Final Flow	D	31	-	
Final Shut-in	E	* 1139	-	
Final Hydrostatic Mud	F	2098	2108	

Field Report No. 18388 B

TIME DATA

Time Given	Time Computed
30 Mins.	Mins.
30 Mins.	Mins.
- Mins.	Mins.
- Mins.	Mins.
30 Mins.	Mins.
45 Mins.	Mins.

Remarks: A-1 2538
A-2 1729

INSTRUMENT NUMBER J-305; BELOW STRADDLE

**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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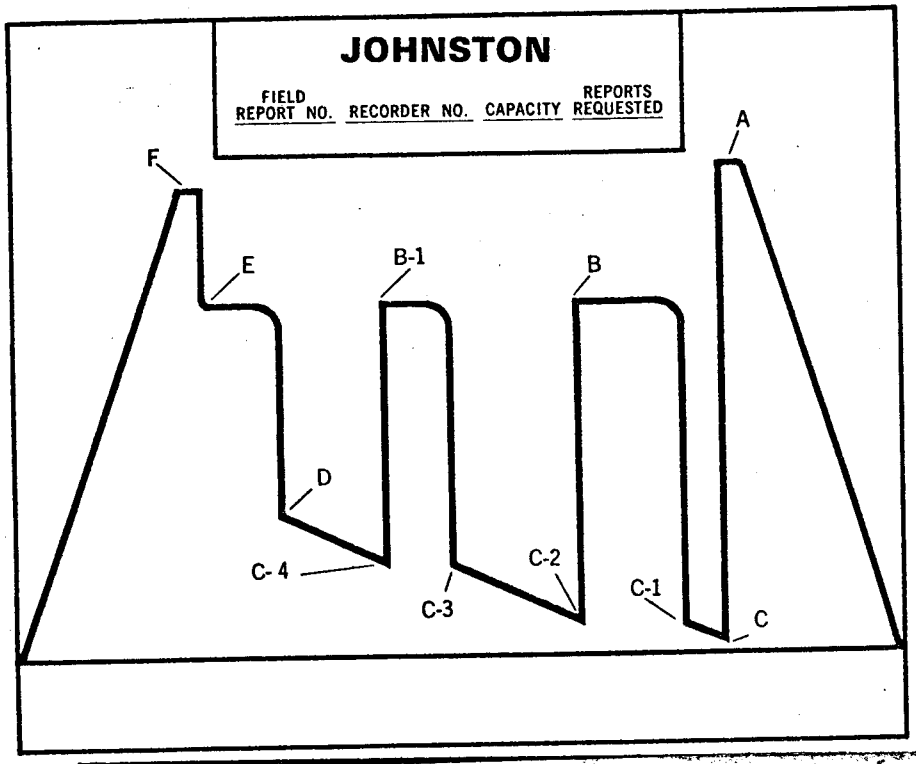
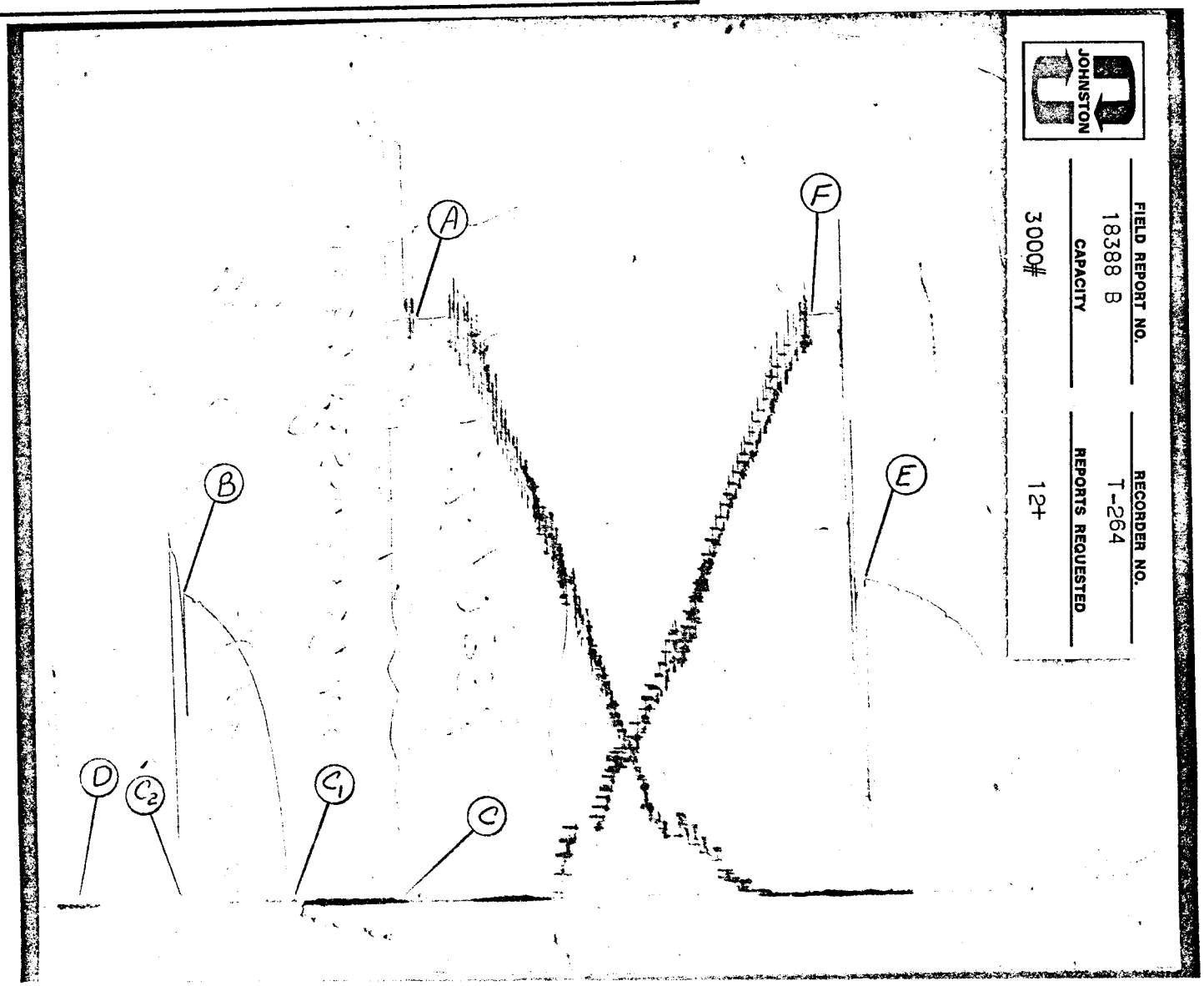
GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



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

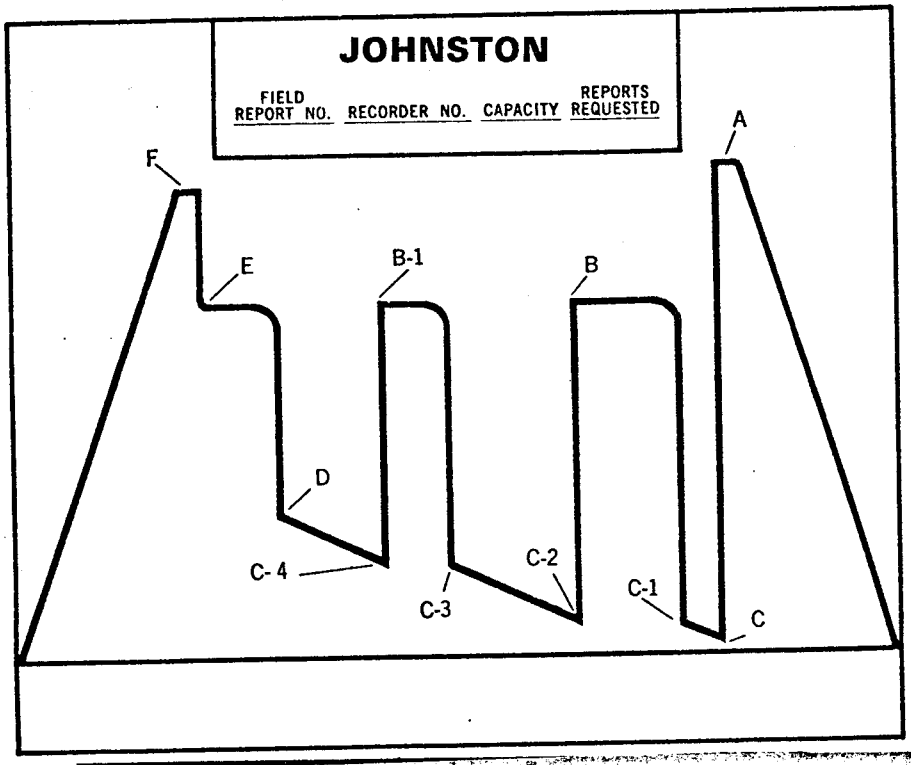
The following points are either fluctuating pressures or points indicating other packer settings, (testing different zones).

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
...found a better way

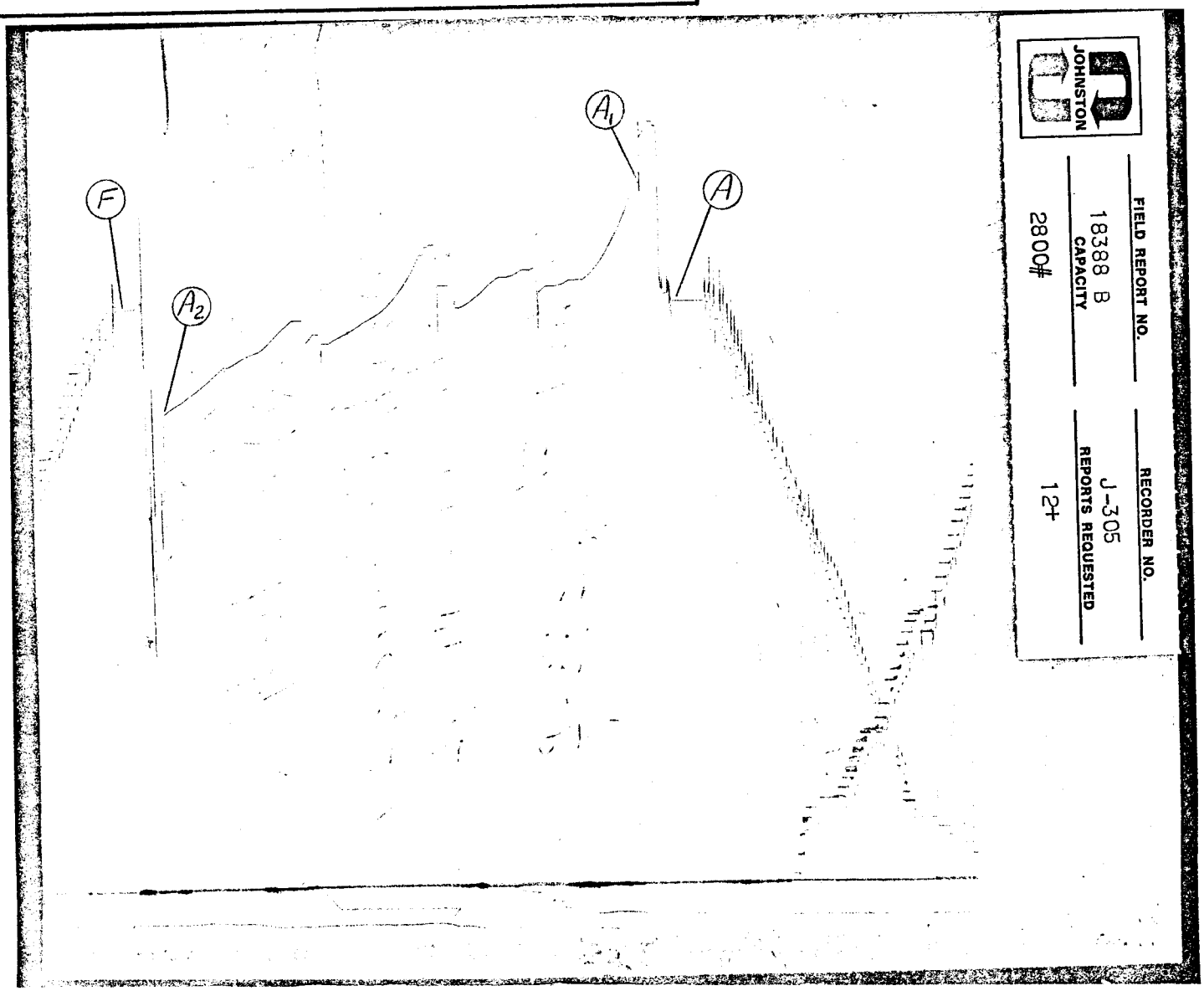
GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS

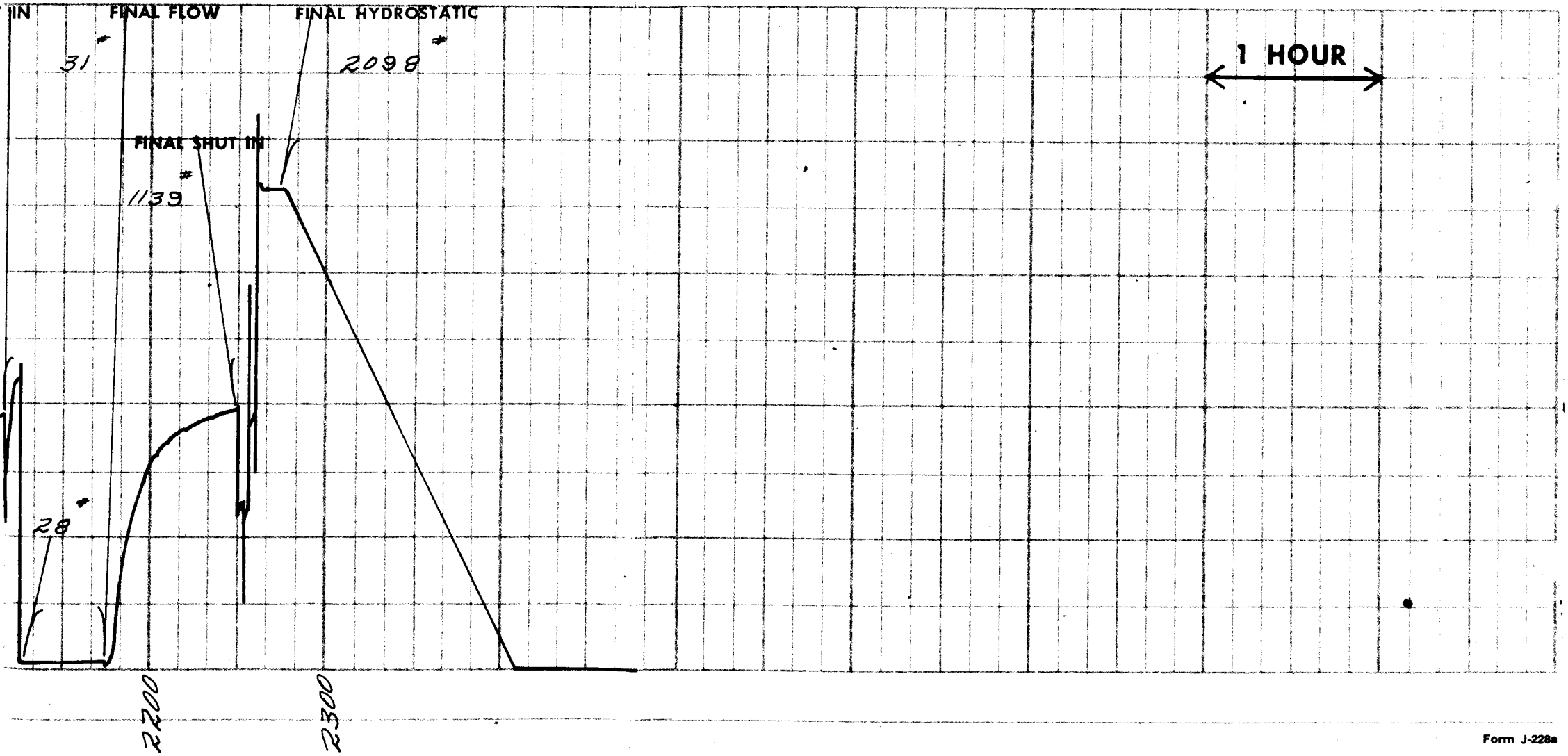


A. Initial Hyd. Mud
B. Initial Shut-in
C. Initial Flow
D. Final Flow
E. Final Shut-in
F. Final Hyd. Mud

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.




IN
FINAL FLOW
FINAL HYDROSTATIC
31#
2098#
1 HOUR
FINAL SHUT IN
1139#
28#
2200
2300

Form J-228a

JOHNSTON

PRESSURE LOG*

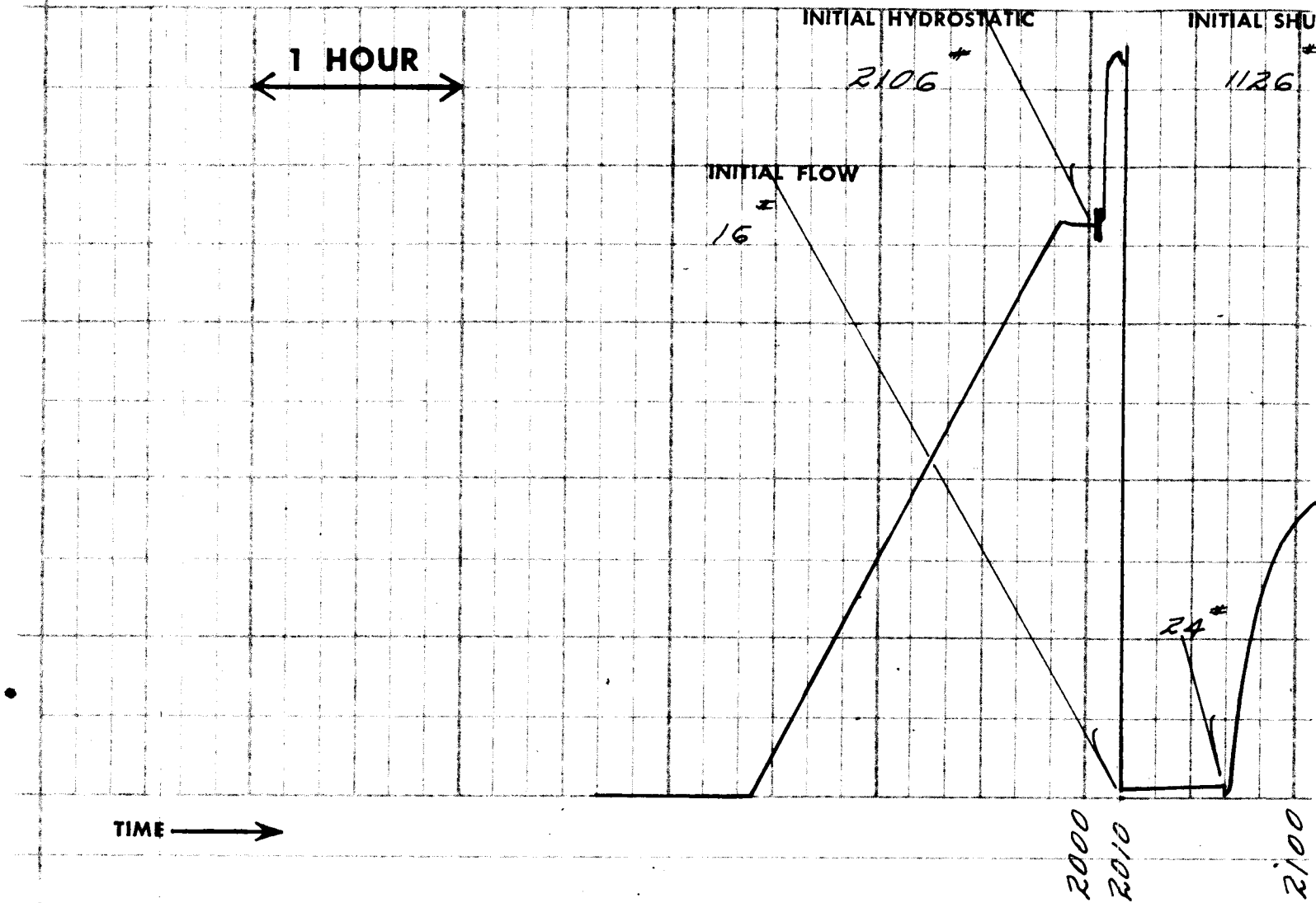
Field Report No. 18388B

Instrument:
Number T-264

Capacity 3000 p.s.i.

Depth 4042 ft.

*a continuous tracing of the original chart



SMITH

SMITH DRILLING FLUIDS, INC.

P. O. BOX 1999 FARMINGTON, NEW MEXICO 87401

OFC. 325-1391 RES. 325-1108

SERVICE ENGINEER'S TEST REPORT

CHECK NO. DISTRICT DAY DATE April 17-81

Operator Wesb Resources Inc. Attn. Mr. Bill Crismon

Contractor Barker Drlg. Co. Attn. Mr. Vern Powers

Location Fed. 17-16 Field Wildcat County Garfield State Utah

Mud Volume Pits 200± Hole 200± Total 400± Pits Bbls/ In.

Present Depth 4095 Feet: Hole Size 7 7/8 Inch.: Last Casing Depth 200 Ft. Size 13 3/8 In.

Weight, Lb./Gal. ☑	9.1		Operation Circ. Cond. Hole to Log
Hyd. Head, P.S.I./100'			Pump, Size SPM
Circulating Density, P.P.G.			Pressure, P.S.I. B.P.M. G.P.M.
Viscosity, Funnel	79		Ann. Vel., Ft./Min., Hole Casing
Viscosity—600 RPM CPE	36		Circ. Time, Min Lag Time, Min.
Plastic Viscosity, C.P.E.	20		Drill String, Pipe Collars No.
Yield Value, (Lb./100 Sq. Ft.)	12		Bit Size Type Run No.
Gel. Strength, Grams Initial	1		R.P.M. Wt. on Bit String Wt.
Gel. Strength, Grams 10 Minutes	6		Flow Line Temp., °F. B.H.T. °F.
Filtrate, cc A.P.I. ☑	2.8		Resistivity, OHMS/M³M @ °F.
Cake, 32"/Texture	3/32		Desander, Underflow Wt. Vol. GPM
pH, Indicator ☑ Beckman ☐	9.0		Alkalinity, cc N/50 Acid P. M.
Sand Content, %/Vol.			EPM, OH CO_3 HCO_3
Oil Content, %/Vol.	10%		Versenate, V_F V_M
Solids Content, %/Vol.			Hardness, PPM Total Calcium EPM
Loss Material, %/Vol. ☐	3%		Traces, Ca ✓ SO_4 ✓ Mg ✓
Preservative, Lbs./Bbl.			Salt, PPM 250 Chlorides, PPM
Lbs./Bbl. (Excess) Lime ☐			Loss Zones @
			Pressure Zones @ PSI
			Dev. @ Ft. — ° FT/HR.

Remarks and Recommendations:

Mud is in excellent condition.

Add each Hrs.

[signature]

SERVICE ENGINEER	TELEPHONE	EXCHANGE	MOBILE SERVICE	WHSE. NO. & LOCATION
[signature]	325-1108			325-1704

Location or Room 2 - Circle "D" Motel, Escalante, Utah

PS

DIVISION OF OIL & GAS CONSERVATION
DEPARTMENT OF NATURAL RESOURCES

PLUGGING PROGRAMS

NAME OF COMPANY: Webb Resources

WELL NAME: Collett Hunt Fed. 17-16

Sec. 17 Township 37S Range 5E County Garfield

Verbal Approval Was Given to Plug the Above Mentioned Well in the Following Manner:

13 3/8" at 196, 7 7/8" hole to T.D. of 4,094'
Did not run intermediate string

Tops:
Kayenta - 1475
Wingate - 1725
Chinle - 2062
Shinarump - 2599
Moenkopi - 2816
Timpoweep - 3242
Kaibab - 3330
White Rim - 3510
Toroweep - 3607
Morgan Rock - 3766
Cedar Mesa - 4002

Testing Cedar Mesa
Fresh water shows in
Shinarump at 2600'
Lost circulation at 391', 606',
& 2600'

Plugs:
4050 - 3950
3300 - 3200
2800 - 2700
196 up with 35 sacks
10 sacks at surface

Date Approved: 4-19-71 Signed: Schein

U.S.G.S. Approved

12 pbp

PAUL R. BUEHLER
PETROLEUM GEOLOGIST
2775 CRABAPPLE RD.
GOLDEN, COLORADO 80401
PHONE 279-4323

April 20, 1971

Webb Resources, Inc.
1776 Lincoln St.
Denver, Colorado 80203

Gentlemen:

Enclosed herewith are a descriptive sample log, drill stem test results, cronological log, bit record, slope test record, drilling time log and plugging procedure from your No. 17-16 Federal, Garfield County, Utah. The formations penetrated and other data are as follows:

WEBB RESOURCES, INC. NO. 17-16 FEDERAL
SE SE Sec. 17; T37S; R5E
Garfield County, Utah

Elev	:	5470' grd; 5481' K.B.
Comm	:	April 1, 1971
Comp	:	April 19, 1971
Contr	:	Barker Drlg. Co., Rig #4
Csg	:	13 3/8" @ 196' K.B.
Mud	:	Chem Gel
Hole Size		7 7/8"
Cores	:	None
DST's	:	Four (See DST Results)
Logs	:	Schlumberger Dual Ind. Laterolog, GR/Neutron; GR/Density & GR/Sonic.
Status	:	P & A

Schlumberger measure and driller's measure are very close to agreement at formation drilling breaks compared to porosity log zones.

The Shinarump formation, 2599 to 2816', exhibited fast drilling breaks from 2599 to 2692' (93') and from 2719 to 2784' (65').

Samples from the Shinarump contained sandstone, medium grained to coarse grained, slightly friable, to free sand with good porosity. The samples contained spotty tan oil stain, bright yellow fluorescence and fair cut. Since a 10% oil mud was being used as drilling fluid, some doubt existed as to the legitimacy of this show in such a high porosity zone, however it was drill stem tested with the resultant recovery of water. Later and deeper this same type of stain was seen in other sands which were tighter and it was possible to determine definitely by breaking fragments of sand that this stain was present only on the surface and was not internal. Therefore, it is now believed that the reported oil show in the very porous Shinarump was invasion of drilling fluid into a highly porous sand and not a legitimate show.

The Timpoweap, 3242 to 3330', did not exhibit any fast drilling breaks but did contain dolomitic limestone with an occasional rare spot of black oil stain with traces of pin point porosity. Schlumberger calculations of several zones indicated 100% water. No drill stem test was taken in the Timpoweap.

The Kaibab, 3330 to 3510', exhibited drilling breaks as follows: 3335 to 3400' (65'); 3406 to 3429' (23'); 3453 to 3465' (12'); and 3477 to 3509' (32').

The top drilling break contained dolomite with pin point porosity and black oil stain and was drill stem tested from 3330 to 3402' with the resultant recovery of water.

The White Rim, 3510 to 3607', being transitional with the Kaibab was difficult to pick with confidence, however using interval thickness from a control well, drilling time and lithology change from arenaceous dolomite to pretty much clean sand, it was called at 3510'. No shows were seen in the White Rim. Drilling breaks were encountered from 3518 to 3521' (3') and 3566 to 3585' (19').

The Toroweap, 3607 to 3766', had a drilling break from 3614 to 3618' (4'). No shows were encountered in the Toroweap.

The Cedar Mesa, 4002' to T.D. broke down and had fast drilling from 4022 to 4090' in what appeared to be very porous friable sand. Samples contained black oil stain with strong sample odor at the top getting weaker and finally absent in the bottom. From sample interpretation, it was thought that the top 30' of this drilling break, 4022 to 4052', was showing oil and the bottom 43' was without show. Two drill stem tests in the top part of the indicated porosity failed to yield fluid upon drill stem testing.

Since no commercial shows had been encountered on the No. 17-16 Federal, the hole was plugged and abandoned.

Very truly yours,

Paul R. Buehler

Paul R. Buehler,
Geologist

PRB/j

Webb Resources, Inc. No. 17-16 Federal, Garfield County, Utah

FORMATION TOPS

		Schlum	Drlr
Top	Kayenta	1475'	1470'
"	Wingate	1725'	1740'
"	Chinle	2062'	2060'
"	Shinarump	2599'	2598'
"	Moenkopi	2816'	2784'
"	Timpoweap	3242'	3238'
"	Kaibab	3330'	3335'
"	White Rim	3510'	3509'
"	Toroweap	3607'	3605'
"	Organ Rock	3766'	3766'
"	Cedar Mesa	4002'	4005'
T.D.		4094'	4095'

Webb Resources, Inc. No. 17-16 Federal, Garfield County, Utah

LOG CALCULATIONS

by Schlumberger

Depth	Porosity	Water Saturation	Rw
3246-53	11%	100	0.9
-98	15%	100	"
3362	14%	90	1.6
3396	18%	77	"
3410-14	18%	73	"
3444-50	15%	100	"
3470-76	15%	100	"
3502	11½	90	"
3530-40	13%	100	"
3575	15%	78	"
3583	14%	81	"
3606	13%	100	"
3696-00	6%	71	1.0
3708-12	5%	79	"
3718-20	7%	100	"
4022-26	14%	76	.75
4030-34	18%	59	"
4038-48	17%	64	"
4055	15%	100	"
4065	15%	100	"

Webb Resources, Inc. No. 17-16 Federal, Garfield County, Utah.

SAMPLE DESCRIPTIONS

Samples examined and logged from 250' to T. D. by
Paul R. Buehler, geologist on location.

220 - 250	Cement & ss, m.g. pnk, sr.
- 280	Cement & ss, m.g. pnk, sr & sh, pnk.
- 370	Cement & ss as above.
- 400	Ss, m.g.-crs.g. pnk, sr, friable.
- 460	Ss as above.
- 490	Sand, f.g.-m.g. loose, unconsolidated, pnk.
- 610	Sand as above.
- 700	Sand as above & sh, pnk.
- 970	Sand, f.g.-m.g. loose, unconsolidated, pnk.
-1050	Sand as above & ss, f.g. red, silty.
-1120	Sand, f.g.-m.g. pnk, unconsolidated.
-1270	Ss, f.g.-m.g. red, firm.
-1390	Ss, f.g.-m.g.-crs.g. red, firm.
-1450	Same.

TOP KAYENTA 1475' Schlum

-1480	Sand, m.g. loose, unconsolidated, pnk.
-1570	Ss, m.g.-crs g. sr, friable, pnk.
-1600	Siltst, lt pnk w/sand, loose, unconsolidated, pnk w/sh, red.
-1660	Ss, m.g.-crs g. pnk & red, friable w/red sh.
-1690	Ss, f.g.-m.g. red, firm.

TOP WINGATE 1725' Schlum

1690-1810	Ss, f.g.-m.g. red, firm.
-1930	Ss, f.g.-m.g. red, firm.
-1990	Ss, f.g.-m.g. red, firm.
-2020	Ss as above.
-2055	Ss as above.

TOP CHINLE 2062' Schlum

2055-2090	Sh, pnk, anhydritic.
-2100	Sh, pnk w/ltl ls, f. xln, dns.
-2200	Sh, pnk, mottled.
-2300	Sh, pnk-red, sli silty.
-2360	Sh as above.
-2370	Sh, pnk & ss, wh-gry, crs g. v. low por. No show.
-2380	Sh, pnk & ss, wh-gry, crs g. v. low por. No show.
-2400	Ss & sh as above.
-2430	Ss & sh as above.
-2440	Sh, grn, sh, brn, sndy & sh, lav.
-2450	Sh, grh, sh, lav & sh, brn w/tr ls, f. xln, dns.
-2490	Sh, grn, sh, lav & sh, brn.
-2500	Sh, brn-red brn.
-2510	Ss, m.g.-crs g. gry, cherty. No por. & sh, lav.
-2520	Ss as above & sh, lav & sh, grn.
-2580	Sh, grn & sh, lav.

Webb Resources, Inc. No. 17-16 Federal, Garfield County, Utah

2580-2600 Sh, grn-gry grn.

TOP SHINARUMP 2599' Schlum

2600-2620 Sh, grn & sh, lav.
-2630 Ss, wh, m.g.-crs.g. sli friable. Med low por. Tr tan oil stain, yellow fluor. Poor cut.
-2650 Ss as above & sh, grn.
-2660 Ss, m.g. wh, sli friable. Med low por. Spotty tan oil stain. Low por, bright yell fluor. Fair cut.
-2670 Same.
-2680 Sand, crs free g. sa-sr, bright yell fluor as above. Consid pyrite.
-2710 Sand as above.
-2800 Sh, lav, purple & green.
-2805 Sand, m.g. wh, friable, drills up free. Golden yell fluor.
-2805 (Circ 1 hr) Ss as above & sh, lav & green.

DST #1 2605-2805' Drlr & Schlum

2805-2810 Sh, gry-grn, lav & pnk.

TOP MOENKOPI 2816' Schlum

2810-2850 Sh as above & Ltl ls, f. xln, gry, dns & ss, m.g. wh, sa-sr, friable. (may be cvgs.).
-2900 Sh, drk red, mica.
-3000 Sh, drk red, mica.
-3040 Sh, drk red, mica.
-3050 Sh, drk red, mica & siltst to v.f.g. ss, red, mica. (?spotty blk dead oil stain).
-3060 Siltst & sh as above.
-3070 Sh, drk red, mica.
-3100 Sh, drk red, mica.
-3200 Sh, drk red, mica.
-3240 Sh, drk red, mica.

TOP TIMPOWEAP 3242' Schlum

3240-3250 Ls, dolomitic, wh, f. xln, w/occ rare trace pin point porosity. Trace spotty black oil stain.
-3270 Dolo, wh, f. xln, dns, sli pyritic. No por. No show.
-3290 Same w/tr wh chert & tr pin pt por w/blk oil stain.
-3320 Dolo as above.
-3330 Dolo as above.

TOP KAIBAB 3330' Schlum

-3340 Dolo, crm-wh, f. xln, v. glauc, w/traces of pin point por & blk oil stain. Fair cut. Mineral fluor.
-3370 Dolo as above. Tr pin pt por & blk oil stain.
-3380 Dolo, crm-wh, f. xln, glauc, w/ltl chert. Tr pin pt por & blk oil stain. Ltl dolo, crm-wh, arenaceous. No show.

Webb Resources, Inc. No. 17-16 Federal, Garfield County, Utah

3380-3390 Dolo as above w/ltl ss, wh, f.g. dolomitic.
-3400 Same.
-3402 (Circ 1 hr) Ss, f.g. wh, v. dolomitic. Low por. No show.

DST #2 3330-3402' Drlr & Schlum

3400-3410 Poor smpl after trip.
-3420 Ss, f.g. wh, dolomitic & Dolo, crm-wh, f. xln. Tr pin point por. No show.
-3440 Same.
-3460 Sh, gry-grn & sh, red.
-3480 Dolo, crm-wh, v. arenaceous. No show.
-3500 Same.
-3510 Same.

TOP WHITE RIM 3510' Schlum

-3520 Dolo as above.
-3530 Dolo as above & ss, m.g. wh, friable. Good por. No show.
-3560 Dolo, wh, f. xln, arenaceous.
-3580 Ss, m.g. wh, friable. Good por. No show.
-3590 Ss as above w/some crs. g. & dolo, f. xln, w/pin pt por. No show.
-3600 Same but mostly ss.
-3610 Ss as above w/ltl ls, tan-gry, v. f. xln, dns.

TOP TOROWEAP 3607' Schlum

3610-3620 Ss, m.g. wh, v. friable. (very much invaded w/drlg mud). Good por. No show.
-3630 Same w/tr anhydrite.
-3670 (poor smpls) Ss as above becoming pnk, w/low por. No show.
-3680 Anhydrite, wh, f. xln & ss, pnk, m.g.-crs.g. sr. No show.
-3700 Anhydrite, wh, f. xln & ss, m.g. wh, friable. Good por. No show.
-3740 Ss, m.g. wh, friable. Good por. No show.
-3780 Ss, f.g. as above w/ltl sh, red.

TOP ORGAN ROCK 3766' Schlum

3780-3790 Sh, red & ss as above.
-3800 Sh, red & sh, grn.
-3820 Sh, grn w/ltl red.
-3900 Sh, red, grn & lav, waxy & siltst, red.
-3930 Sh, red & grn w/siltst, red.
-3960 Siltst, red.
-4000 Siltstone, red.
-4010 Siltstone, red.

TOP CEDAR MESA 4002' Schlum

4010-4020 Siltstone, red & ss, f.g. wh, gypsiferous. Low por. No show.

Webb Resources, Inc. No. 17-16 Federal, Garfield County, Utah

4020-4030	Siltstone, red & ss, f.g. wh, gypsiferous. Low por. No show.
-4040	Ss, f.g.-m.g. crm-brn, w/blk oil stain, good smpl odor. Good cut. Good por.
-4050	Same.
-4090	Ss, m.g. wh, w/tr blk oil stain. No smpl odor. Show oil becoming weak.
-4095	Ss as above. No show.
-4095	(Circ 1 hr) Ss as above.
T.D.	4095' Drlr; 4094' Schlum

Paul R. Buehler,
Geologist

Webb Resources, Inc. No. 17-16 Federal, Garfield County, Utah

DST RECORD

DST No. 1, 2605-2805' Drlr & Schlum
(Shinarump)

Johnston Straight Test w/200' anchor & two top packers.
T.D. 2805'

Took 15 min preflow with immediate strong blow. Took 45 min initial shutin. Reopened tool with no blow. Left tool open 15 min and reset tool. Left tool open 15 more minutes w/no blow. Took 45 min final shutin.

Recovered: 1700' fluid of which
126' was drlg mud
252' was wtr cut mud
1322' was muddy water.

		IPF	581		
IH	1376	FPF	783	ISI	794
FH	1264	IF	plug tool	FSI	794
		FF	plug tool		

Rw of test wtr was 1.6 @ 68° 450 ppm Cl
Rw of make up wtr was 1.9 @ 68° 300 ppm Cl

BHT 90°

Note: Tool open only for the 15 min preflow. Tool plugged when opened on 2nd opening & remained plugged.

DST No. 2, 3330-3402' Drlr & Schlum
(Kaibab)

Johnston Straight Test with 72' anchor & two top packers.

Took 30 min preflow with weak blow increasing to strong (under 12" water) in 3 min.
Took 45 min initial shutin. Reopened tool with weak blow increasing to strong in 5 min (under 12" water). Blow strong 1 hour & 45 min., then decreased to 8" inch blow. Tool open two hours. Took 1 hour final shutin.

Recovered: 2000' of fluid of which
434' was drlg mud
1566' sulphur water. No show oil.

		IPF	8		
IH	1671	FPF	25	ISI	1013
FH	1660	IF	50	FSI	1018
		FF	945		

BHT 92°

Rw of test water 2.2 @ 60° 150 ppm Cl
Rw of make up water 1.9 @ 68° 300 ppm Cl

Webb Resources, Inc. No. 17-16 Federal, Garfield County, Utah

DST No. 3, 4026-4040' Drlr & Schlum
(Cedar Mesa)

Johnston Straddle Test w/14' between packers & 55' anchor. Two top packers.

Took 15 min preflow w/very weak blow. Took 30 min initial shutin. Reopened tool w/no blow. Left tool open 1 hour. Took 30 min final shutin.

Recovered: 10' drlg mud

		IPF	0		
IH	2082	FPF	0	ISI	1133
FH	2065	IF	4	FSI	1035
		FF	7		

BHT 95°

DST No. 4, 4022-4048' Drlr & Schlum
(Cedar Mesa)

Johnston Straddle Test w/26' between packers & 47' anchor.

Took 30 min preflow w/very weak blow. Took 30 min initial shutin. Reopened tool for 30 min with no blow. Took 45 min final shutin.

Recovered: 10' drlg mud.

		IPF	11		
IH	2103	FPF	17	ISI	1118
FH	2092	IF	11	FSI	1136
		FF	23		

BHT 95°

Webb Resources, Inc. No. 17-16 Federal, Garfield County, Utah

CRONOLOGICAL LOG

4/1	Rig up. Drld rat hole. Spud @ 6:00 p.m. Drld 220' of 12 1/4" hole. Reamed 0 to 196' w/17 1/2" hole opener. Ran 199.55' of 13 3/8" 48# Rge 3;8 rd csg. set @ 196' K.B. Cemented w/170 sxs reg 2% CaCl. Circ. cement. Plug down @ 9:30 p.m.
4/2	W.O.C. & drlg mouse hole.
4/3	W.O.C. Drlg mouse hole. Drlg cement. Drlg 220 to 391'. Lost Circ & stuck pipe @ 391' @ 4:00 p.m.
4/4	Mix mud. Spot 15 bbls oil. Pipe loose @ 2:00 p.m. Drlg 391 to 704'. Lost circ @ 606' (2 hrs)
4/5	Drlg 704 to 1296'.
4/6	Drlg 1296 to 1782'.
4/7	Drlg 1782 to 2150'.
4/8	Drlg 2150 to 2498'.
4/9	Drlg 2498 to 2805'. Nipple up & set B.O.P.
4/10	Ran DST #1 2605-2805'. Drlg 2805 to 2807'.
4/11	Drlg 2807 to 3068'.
4/12	Drlg 3068 to 3280'.
4/13	Drlg 3280 to 3402'. Ran DST #2 3330-3402'.
4/14	Pull DST #2. Drlg 3402-3635'.
4/15	Drlg 3635-3857'.
4/16	Drlg 3857-4095' T.D. @ 7:00 p.m.
4/17	Ran Schlumberger Dual Ind. Laterolog. Tried Porosity log and had bridge @ 2600'. Cleaned bridge. Ran Schlum GR/Sonic.
4/18	Ran Schlum GR-Neutron. Ran Schlum GR Density; Ran DST #3 4026-4040'. Ran DST #4 4022-4048'.
4/19	Plug and abandon hole.

Webb Resources, Inc. No. 17-16 Federal, Garfield County, Utah

BIT RECORD

1.	12 1/4"	Reed	YT3J	0	- 220'	220'	12	hrs.
2.	17 1/2	"	H.O.			196'	5	
2.	7 7/8"	"	YS1G	220	- 827'	607'	14	
3.	"	HTC	ODVJ		-1296'	469'	13	
4.	"	Smith	DGTH		-1594'	298'	7 1/2	
5.	"	Reed	YS1GH		-1880'	286'	11 1/4	
6.	"	HTC	WD7J		-2060'	180'	8 1/2	
7.	"	"	"		-2270'	210'	14 3/4	
8.	"	Smith	V2H		-2586'	316'	15 1/2	
9.	"	"	"		-2805'	219'	12	
10	"	"	DGTH		-3025'	220'	17 3/4	
11	"	Reed	YS1G		-3230'	205'	17 3/4	
12	"	Smith	L4H		-3322'	92'	8 3/4	
13	"	HTC	WD7J		-3402'	80'	6 3/4	
14	"	Reed	SCMS		-4095'	693'	61	

SLOPE TESTS

4/1	180'	1 °	4/7	1850'	2 °
4/3	300'	1 1/4	4/7	1950'	1 3/4
4/3	360'	1 1/4	4/7	2050'	1 1/2
4/4	505'	3/4	4/8	2230'	1 1/2
4/4	672'	1 1/2	4/9	2546'	1 1/2
4/5	870'	3/4	4/9	2800'	1 1/4
4/5	1140'	1	4/11	2990'	1 1/2
4/5	1280'	1/2	4/12	3205'	3/4
4/6	1540'	2 1/4	4/17	4055'	2 1/2
4/6	1600'	2			

Webb Resources, Inc. No. 17-16 Federal, Garfield County, Utah

PLUGGING PROCEDURE

1.	4050 up to 3950'	35 sxs	100'	Cedar Mesa
2.	3300 up to 3200'	35 sxs	100'	Timpoweap
3.	2800 up to 2700'	35 sxs	100'	Shinarump
4.	196 up to 146'	35 sxs	50'	In & Out of 13 3/8"
5.	12 up to 0'	10 sxs	12'	Top 13 3/8" w/marker

Verbal approval granted @ 1:30 p.m. Sunday, April 19 by Mr. Gerald Daniels, U.S.G.S. Salt Lake City, Utah.

STATE: Utah	COMPANY: Webb Resources
COUNTY: Garfield	FARM: Federal — WELL NO.: 17-16
BLOCK: SE SE	SURVEY:
SEC.: 17	TOTAL DEPTH: 4095
T. 37S — R. 5E	
	CONTRACTOR: Barker
17	COMMENCED: April 1, 1971
	COMPLETED: April 19, 1971
ALTITUDE: 5481 K.B.	REMARKS: T.D. @ 7:00 PM April 16
PRODUCTION:	

CASING RECORD

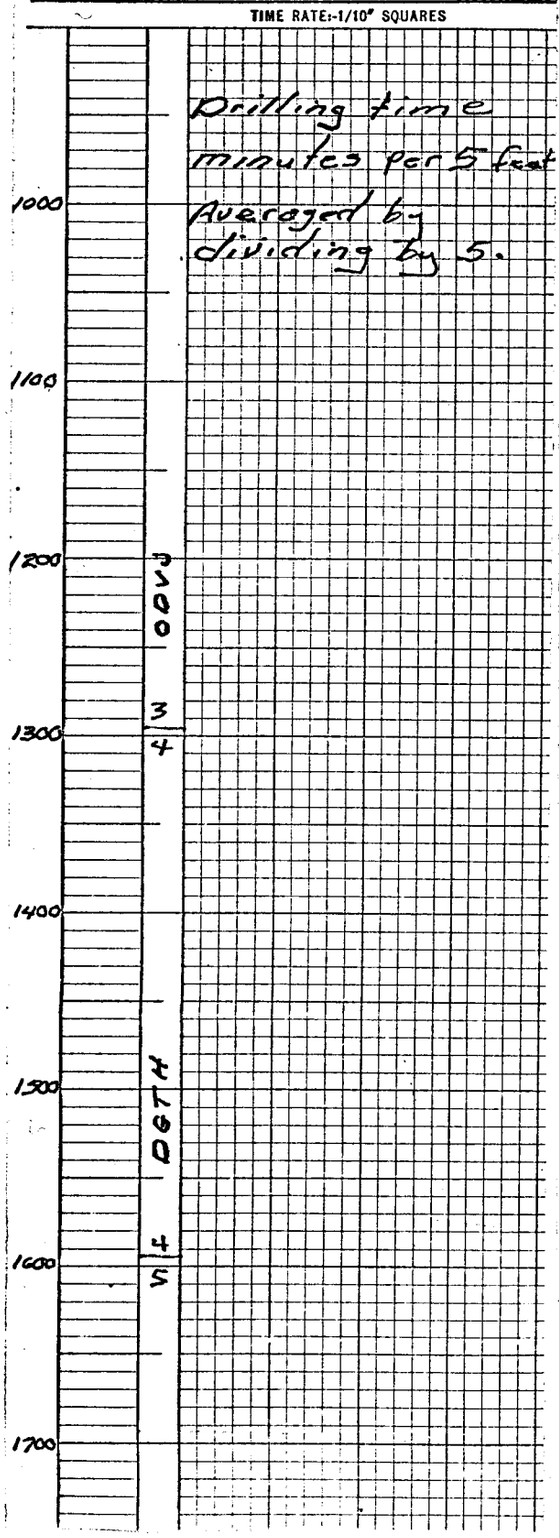
13 3/8" @ 196' KB

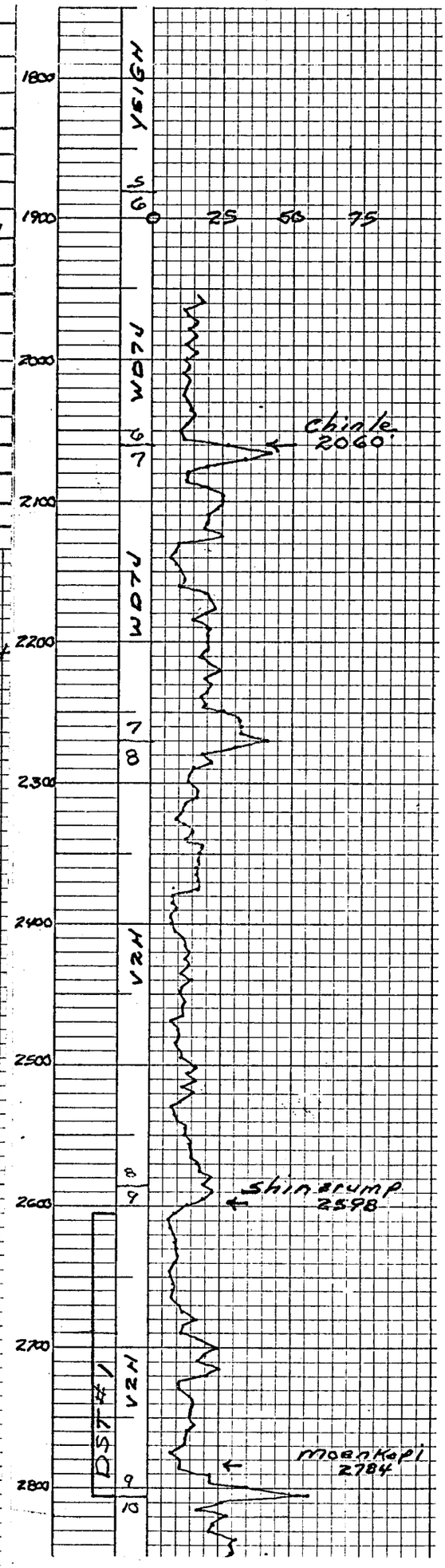
SHOT — QUARTS — BETWEEN

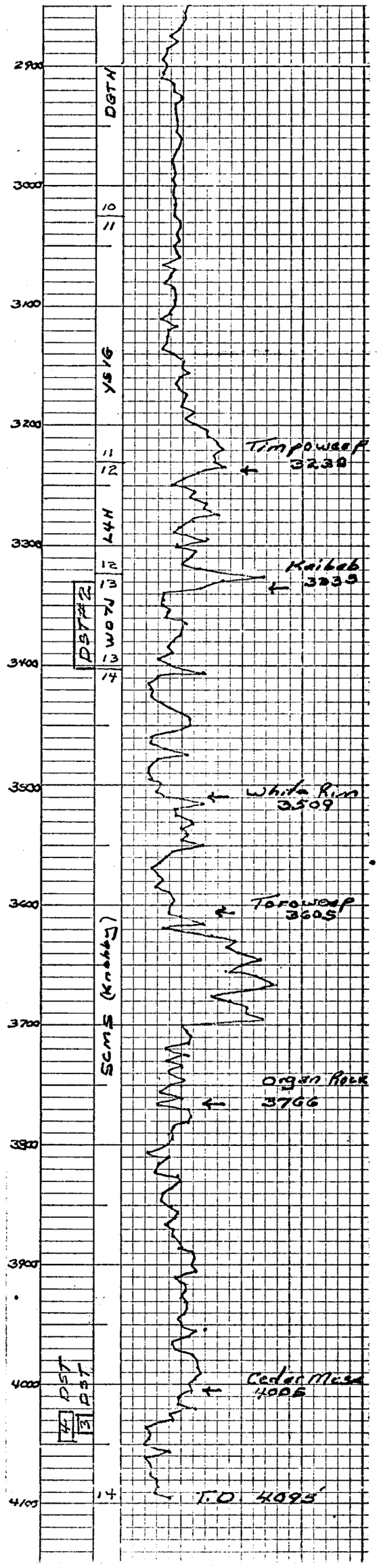
TIME RATE SCALE: 1/10" = MINUTES

Kraftbilt 450 ROSS-MARTIN CO. TULSA 1, OKLAHOMA PRINTED IN U.S.A.

TIME RATE:-1/10" SQUARES







2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000
4100
DGTH
10
11
YSIG
11
12
L4H
12
13
DST#2
WOTJ
13
14
SCMS (Knobby)
DST
4
DST
3
14
Timpoweap
3230
Kaibab
3335
White Rim
3509
Toroweap
3605
Organ Rock
3766
Cedar Mesa
4006
T.D. 4095'

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-8269

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

1. OIL WELL ☐ GAS WELL ☐ OTHER DRY

2. NAME OF OPERATOR: Webb Resources, Inc.

8. FARM OR LEASE NAME: Federal

3. ADDRESS OF OPERATOR: 1776 Lincoln Street Denver, Colorado 80203

9. WELL NO.: #17-16

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 760' FSL & 600' FEL SE SE Section 17

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 17-37S-5E

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5470' Ground Level

12. COUNTY OR PARISH: Garfield

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*	XX	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.)*

This well was spudded 4-2-71 and was drilled to a total depth of 4097'. The well was proven non-productive and therefore, plugged and abandoned, upon verbal permission from Mr. Gerald Daniels, U.S.G.S. Salt Lake City, Utah, as follows: (4-19-71 Completion Date)

PLUGS:

35 sxs	4050-3950'
35 sxs	3300-3200'
35 sxs	2800-2700'
35 sxs	196- 146'
10 sxs	Surface with Marker.

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

SIGNED [signature] TITLE Geologist DATE 4-22-71

(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.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

5. LEASE DESIGNATION AND SERIAL NO.: U-8269

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Federal

9. WELL NO.: #17-16

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: 17-37S-5E

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: Webb Resources, Inc.

3. ADDRESS OF OPERATOR: 1776 Lincoln Street Denver, Colorado 80203

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: 760' FSL & 600' FEL SE SE Section 17
At top prod. interval reported below
At total depth: Same

14. PERMIT NO.:
DATE ISSUED: 3-31-71

12. COUNTY OR PARISH: Garfield
13. STATE: Utah

15. DATE SPUDDED: 4-2-71
16. DATE T.D. REACHED: 4-16-71
17. DATE COMPL. (*Ready to prod.*): 4-19-71 P&A
18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*: 5470' G.L.
19. ELEV. CASINGHEAD: ---

20. TOTAL DEPTH, MD & TVD: DTD 4097'
21. PLUG, BACK T.D., MD & TVD: --
22. IF MULTIPLE COMPL., HOW MANY*: --
23. INTERVALS DRILLED BY: → ROTARY TOOLS: 0-4097' CABLE TOOLS: --

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

25. WAS DIRECTIONAL SURVEY MADE: no

26. TYPE ELECTRIC AND OTHER LOGS RUN: DIL, FDC-GR; SNP-GR;

27. WAS WELL CORED: no

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#	196' KB	12-1/4	170 sxs	---

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

PLUGS:
Surface with Marker - 10 sxs

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
4050-3950	35 sxs
3300-3200	35 sxs
2800-2700	35 sxs
196- 146	35 sxs

33.* PRODUCTION

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: Geological Report with Driller's Time log and Drilling Fluid Report

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

SIGNED: [signature] TITLE: Geologist DATE: 4-22-71

*(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.
Navajo	surface	1480	Sandstone Water Fresh
Wingate	1726	2062	Sandstone Water Fresh
Shinarump	2600	2816	Sandstone Water Salty
Kaibab	3330	3510	Limestone Water Salty
White Rim	3510	3620	Sandstone Water Salty
Tortweap	3620	3766	Sandstone Water Salty
Cedar Mesa	4020	4097	Sandstone Water Salty
DST #1	2605	2805	SEE GEOLOGICAL REPORT
DST #2	3330	3402	
DST #3	4025	4040	
DST #4	4022	4048	
BLOWOUT PREVENTOR REPORT:			Blowout preventor hooked up and tested 4-2-71 and held 500 lbs of pressure for 20 minutes. From 4-2-71 to 4-19-71, rams were closed once daily and once on each trip.

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
Kayenta	1480'	
Wingate	1726'	
Chinle	2062'	
Shinarump	2600'	
Moenkopi	2816'	
Timpoweap	3242'	
Kaibab	3330'	
White Rim	3510'	
Toroweap	3620'	
Organ Rock	3766'	
Cedar Mesa	4020'	
Logger's TD	4094'	
Driller's TD	4097'	

U.S. GOVERNMENT PRINTING OFFICE: 1963—O-683636
GPO 837-497
871-233

WEBB RESOURCES - COLLETT UNIT FEDERAL 17-16

FORM OGC-8-X

FILE IN QUADRUPLICATE

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

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number #17-16 Federal

Operator Webb Resources, Inc Address 1776 Lincoln St. Denver, Colo 80203 Phone 303-892-5504

Contractor Barker Drilling & Well Service Address Box 756, 110 East, 1st South Vernal, Utah Phone 801-789-2101

Location SE ¼ SE ¼ Sec. 17 T. 37S N/S R. 5E E/W Garfield County, Utah

Water Sands:

	Depth From	Depth To	Volume Flow Rate or Head	Quality Fresh or Salty
1.	Surface	1480		Fresh
2.	1726	2062		Fresh
3.	2600	2816		Salty
4.	3330	3510		Salty
5.	3510	3620		Salty

*(Continue on reverse side if necessary)

Formation Tops:

Kayenta	1480'	Moenkopi	2816'	Organ Rock	3766'
Wingate	1726'	Timpoweap	3242'	Cedar Mesa	4020'
Chinle	2062'	Kaibab	3330'	LTD	4094'
Shinarump	2600'	White Rim	3510'	DTD	4097'
		Toroweap	3620'		

Remarks:

NOTE:
(a) Upon diminishing supply 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, (See Back of form).
(c) If a water analysis has been made of the above reported zone, please forward a copy along with this form.

RULE C-20 REPORTING OF FRESH SANDS.

It shall be the duty of any person, operator or contractor drilling an oil or gas well or drilling a seismic, core or other exploratory hole to report to this office all fresh water sands encountered; such report shall be in writing and give the location of the well or hole, the depth at which the sands were encountered and the thickness of such sands, and the rate of flow of water if known.

If no fresh water sands are encountered, it is requested that a negative report to that effect be filed.

*(CONT)

DEPTH		QUALITY
FROM	TO	
3620	3766	Salty
4020	4097	Salty

SMITH

SMITH DRILLING FLUIDS, INC.

P. O. BOX 1999 FARMINGTON, NEW MEXICO 87401

OFC. 325-1391 RES. 325-1108

SERVICE ENGINEER'S TEST REPORT

CHECK NO. DISTRICT DAY DATE 6-7-81

Operator WEBB RESOURCES, INC. Attn. Mr. BILL CRISMON

Contractor BARKER DRLG. CO. Attn. Mr. VERN POWERS

Location FED. 17-16 Field WILDCAT County GARFIELD State UTAH

Mud Volume Pits 150± Hole 100± Total 250± Pits Bbls/ In.

Present Depth 906 Feet: Hole Size 7 7/8 Inch.: Last Casing Depth 200 Ft. Size 13 3/8 In.

	906'	1958'	
Weight, Lb./Gal. ☑	9.0	9.3	Operation DRILLING
Hyd. Head, P.S.I./100'			Pump, Size SPM
Circulating Density, P.P.G.			Pressure, P.S.I. B.P.M. G.P.M.
Viscosity, Funnel	43	44	Ann. Vel., Ft./Min., Hole Casing
Viscosity—600 RPM CPE	35	30	Circ. Time, Min Lag Time, Min.
Plastic Viscosity, C.P.E.	25	20	Drill String, Pipe Collars No.
Yield Value, (Lb./100 Sq. Ft.)	15	12	Bit Size Type Run No.
Gel. Strength, Grams Initial	8	2	R.P.M. Wt. on Bit String Wt.
Gel. Strength, Grams 10 Minutes	40	4	Flow Line Temp., °F. B.H.T. °F.
Filtrate, cc A.P.I. ☑ 7½	14.0	12.0	Resistivity, OHMS/M³M @ °F.
Cake, 32"/Texture	6/32	2/32	Desander, Underflow Wt. Vol. GPM
pH, Indicator ☑ Beckman ☐	8	9.0	Alkalinity, cc N/50 Acid P. M.
Sand Content, %/Vol.	6%	4%	EPM, OH CO_3 HCO_3
Oil Content, %/Vol.	15%±	10%	Versenate, V_F V_M
Solids Content, %/Vol.			Hardness, PPM Total Calcium EPM
Loss Material, %/Vol. ☑	30%	✓	Traces, Ca 20 SO_4 20 Mg 10 EPM's.
Preservative, Lbs./Bbl.			Salt, PPM Chlorides, PPM
Lbs./Bbl. (Excess) Lime ☐			Loss Zones @ 391' & 606'
			Pressure Zones @ PSI
			Dev. @ Ft.— ° FT/HR.

Remarks and Recommendations: MAKE UP WATER IS HEAVY WITH CALCIUM (20 EPM) MUD IS HEAVILY CONTAMINATED WITH CALCIUM, ALSO. CAKE IS TOO THICK, SO SUGGEST CHEMICALS TO THIN IT, AND REDUCE GEL STRENGTHS.

WOULD HOLD WT. 9.0 #/GAL OR LESS — SUGGEST VIS. AT 40 SEC./QT.

HOLD LOSS CIRC. MATERIALS AT 15%.

ADD WATER WHILE DRLG. KEEP PITS CLEAN.

Add each 8 Hrs.

1 SX. SODA ASH

1 SX. CAUSTIC SODA

1 SX. PETRO FLO

2 SX. - 007

½ SX. C.M.C.

5-GALS. SOAP.

[signature]

SERVICE ENGINEER	TELEPHONE	EXCHANGE	MOBILE SERVICE	WHSE. NO. & LOCATION
[signature]	LOC. OR	(D) MOTEL	ROOM #2	

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.: Utah-8269

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

1. OIL WELL ☐ GAS WELL ☐ OTHER DRY

2. NAME OF OPERATOR: Webb Resources, Inc.

8. FARM OR LEASE NAME: Federal

3. ADDRESS OF OPERATOR: 1776 Lincoln Street, Denver, Colorado 80203

9. WELL NO.: #17-16

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 760' FSL & 600' FEL SE SE Section 17

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 17-37S-5E

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5470' Ground Level

12. COUNTY OR PARISH: Garfield

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*	XX
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.)*

This well was spudded 4-2-71 and was drilled to a total depth of 4097'. The well was proven non-productive and therefore, plugged and abandoned, upon verbal approval from Mr. Gerald Daniels, U.S.G.S. Utah, as follows: (4-19-71 P&A Date)

35 sxs	4050-3950'
35 sxs	3300-3200'
35 sxs	2800-2700'
35 sxs	196- 146'
10 sxs	Surface w/Marker

This well is ready for inspection.

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

SIGNED Evelyn Gerry TITLE Exploration Manager DATE 9-29-71

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

March 9, 1972

MEMO FOR FILING

Re: Webb Resources
Collett Unit Federal #17-16
Sec. 17, T. 37 S, R. 5 E,
Garfield County, Utah

On March 6, 1972, the above referred to location was visited.

The location was inspected and found to be cleaned and leveled with the marker erected and identified. It is, therefore, recommended that the bond be released.

Cleon B. Feight

CLEON B. FEIGHT
DIRECTOR

CBF:ck

cc: U.S. Geological Survey