FILE NOTATIONS

Entered in NID File	✓	Checked by Chief	
Location Map Pinned	✓	Approval Letter	
Card Indexed	✓	Disapproval Letter	

COMPLETION DATA:

Date Well Completed	12/14/79	Location Inspected	
W..... WW..... TA.....		Bond released	
SIGW✓... OS..... PA.....		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.....

THE ANSCHUTZ CORPORATION

2400 ANACONDA TOWER · 555 SEVENTEENTH STREET · DENVER, COLORADO 80202 · 303-825-6100 · TWX 910-931-2620

July 5, 1979

Mr. Cleon B. Feight
Director State of Utah
Division of Oil, Gas and Mining
1588 West, North Temple
Salt Lake City, Utah 84116

Re: Anschutz Ranch Field
Anschutz Ranch Well No. 33-1
SE Sec. 33, T4N, R7E
Summit County, Utah

Dear Mr. Feight:

Enclosed is the application to drill and the survey plats (submitted in triplicate) for the above referenced well. Please feel free to contact us if you have any questions.

Sincerely,

Peter B. Doty
Operations Coordinator

PBD:sa

Enclosures

RECEIVED
JUL 9 1979
GAS, & MINING

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 [X] OTHER SINGLE ZONE [ ] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR: THE ANSCHUTZ CORPORATION

3. ADDRESS OF OPERATOR: Suite 2400, Anaconda Tower
555 Seventeenth Street, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 1377' FEL 1102' FSL SW SE Sec. 33, T4N, R7E
At proposed prod. zone

5. LEASE DESIGNATION AND SERIAL NO.: FEE

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Anschutz Ranch

9. WELL NO.: 33-1

10. FIELD AND POOL, OR WILDCAT: Anschutz Ranch

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 33, T4N, R7E S.L.M.

12. COUNTY OR PARISH: Summit

13. STATE: Utah

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 21 miles SW of Evanston, Wyoming

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

16. NO. OF ACRES IN LEASE:

17. NO. OF ACRES ASSIGNED TO THIS WELL: 320

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

19. PROPOSED DEPTH: 8400'

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 7327.5 GR

22. APPROX. DATE WORK WILL START*: 7/15/79

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
20"	13-3/8		100'	Cement to Surface
12¼"	9-5/8"		1900'	850 sx Cement to Surface
8-3/4	5½		TD	650 sx

We propose to drill this well to an approximate total depth of 8400' to test the Nugget formation. Mud and BOP programs will be those generally used in this area. Electric Logs will be run to TD (DIL-GR, Density, Neutron, Dipmeter and Fracture ID). No cores are planned at this time. Drill Stem Tests will be run as warranted. If production is encountered, casing will be set through the productive intervals. The casing will be selectively perforated. Fracing and/or acidizing may be required to stimulate production. Blanket Bond is on file. Survey plats are attached.

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 Peter B. Doty TITLE Operations Coordinator DATE June 29, 1979

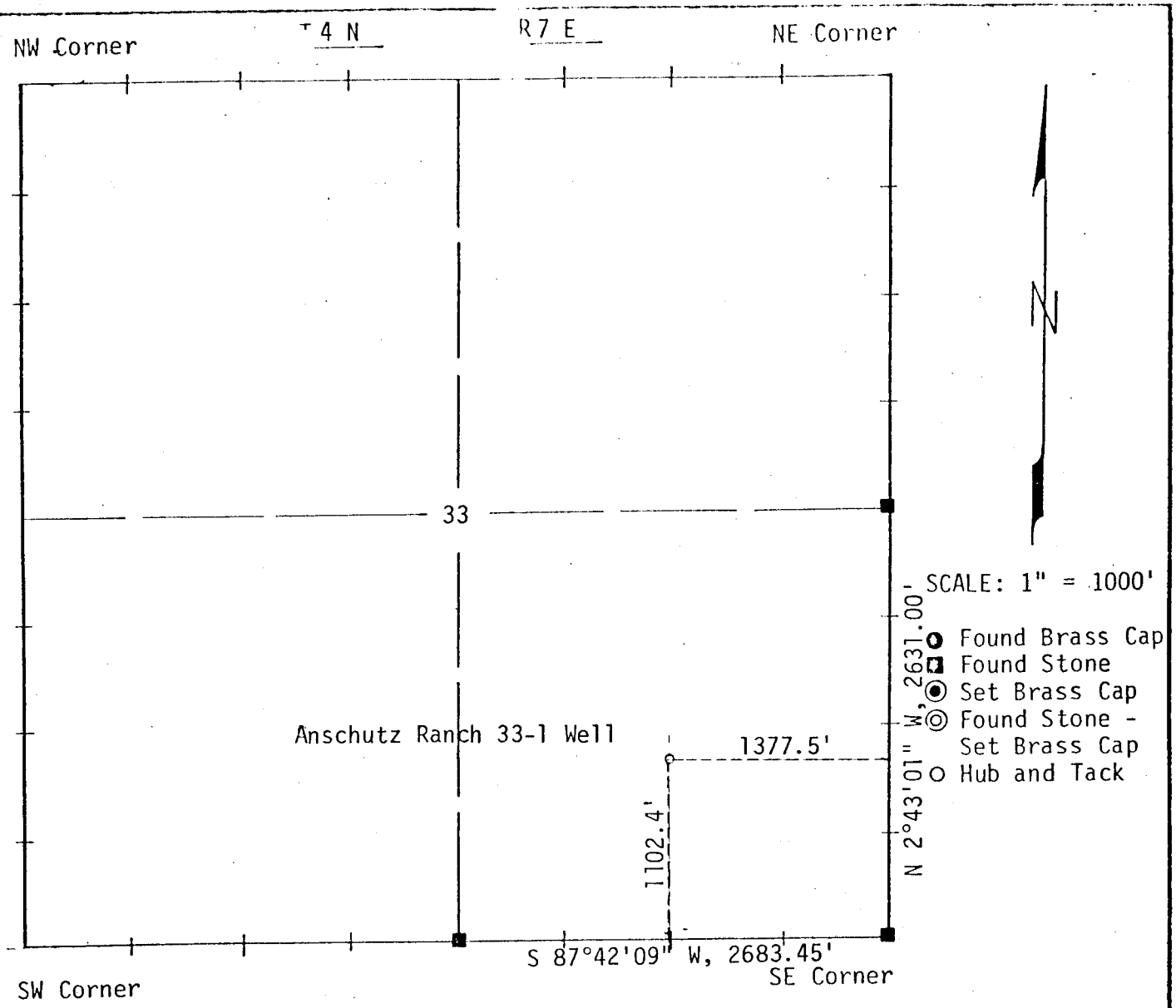
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side



I, John A. Proffit of Evanston, Wyoming certify that in accordance with a request from Pete Doty of Denver, Colorado for The Anschutz Corporation I made a survey on the 25th day of June, 19 79 for Location and Elevation of the Anschutz Ranch 33-1 Well as shown on the above map, the wellsite is in the SE¼ of Section 33, Township 4 N, Range 7 E of the Salt Lake Base & Meridian, Summit County, State of Utah, Elevation is 7327.5 Feet top of hub Datum U.S.G.S. Quadrangle - Castle Rock, Utah Spot Elev. 7722 SW¼SE¼, Sec. 34, T4N, R7E

Reference point N.E. Cor. of Pad Elev. 7343.0'

Reference point S.E. Cor. of Pad 7336.4'

Reference point S.W. Cor. of Pad 7334.5'

Reference point N.W. Cor. of Pad 7323.7'

John A. Proffit 6/29/79

JOHN A. PROFFIT UTAH R.L.S. NO. 2860

UINTA ENGINEERING & SURVEYING, INC.
808 MAIN STREET, EVANSTON, WYOMING

DATE: 6-29-79
JOB NO.: 79-20-2

STATE OF UTAH
DIVISION OF OIL, GAS, AND MINING

** FILE NOTATIONS **

Date: July 9, 1979

Operator: Anschutz Corporation

Well No: Anschutz Ranch 33-1

Location: Sec. 33 T. 4N R. 7E County: Summit

File Prepared: /✓/ Entered on N.I.D.: /✓/

Card Indexed: /✓/ Completion Sheet: /✓/

API Number: 43-043-30101

CHECKED BY:

Administrative Assistant: _____

Remarks:

Petroleum Engineer: _____

Remarks:

Director: _____

Remarks:

INCLUDE WITHIN APPROVAL LETTER:

Bond Required: /____/ Survey Plat Required: /____/

Order No. _____ Surface Casing Change to _____ /____/

Rule C-3(c), Topographic exception/company owns or controls acreage within a 660' radius of proposed site /____/

O.K. Rule C-3 /____/ O.K. In _____ Unit

Other:

/✓/ Letter Written/Approved

Dee

ltm H_2S info

July 16, 1979

Anschutz Corporation
2400 Anaconda Tower
555 Seventeenth Street
Denver, Colorado 80202

Re: Anschutz Corporation
Well No. Anschutz Ranch 33-1
Sec. 33, T. 4N, R. 7E,
Summit County, Utah

Dear Sir:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted in accordance with Rule C-4, General Rules and Regulations and Rules of Practice and Procedure which includes a provision stating that:

> "Approval shall be given if it appears that the contemplated location and operations are not in violation of any rule, regulations, or order for drilling a well for oil and/or gas. Approval shall not be given if the location of the well is off of the well location pattern proposed by a pending spacing application, without special order of the Commission after notice and hearing."

Pursuant to our conversation on July 10, 1979, and rules C-3 and C-4, the above referred to well may be conditionally approved as follows: If cause 183-1 is not approved, you would not be permitted to produce from any of the formations presently produced in Well #3-1 Anschutz Ranch. As matters stand at this point in time, even if 183-1 is approved you would not be permitted to produce gas from any formation (other than Twin Creek) common to any existing wells within a radius of 4960' of your proposed location. Commingling production from two or more pools such as Twin Creek and Nugget is not permitted.

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

MICHAEL T. MINDER - Geological Engineer
Home: 876-3001
Office: 533-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-043-30101.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Michael T. Minder
Geological Engineer

MTM:bb

Encs.
cc

m

champlin

RECEIVED
JUL 16 1979
DIVISION
GAS. & MIN.

July 12, 1979

Mr. Cleon B. Feight
Director
Division of Oil, Gas and Mining
1588 W. North Temple
Salt Lake City, Utah 84116

Dear Mr. Feight:

Champlin Petroleum Company has no objections to the drilling of Anschutz Ranch Well No. 33-1 located in the SE quarter Section 33, T4N, R7E, Summit County, Utah.

Sincerely,

Frank D. McAtee

Frank D. McAtee
Proration and Joint
Venture Supervisor

FDM:af

cc: Mr. Pete Doty
Amoco Production Company
Security Life Building
Denver, Colorado 80202

Champlin Petroleum Company
Denver Region
P.O. Box 1257
Englewood, Colorado 80150
303/771-8090

CORE ANALYSIS RESULTS FOR

ANSCHUTZ CORPORATION

NO. 33-1 ANSCHUTZ RANCH

ANSCHUTZ RANCH FIELD

SUMMIT COUNTY, UTAH

CORE LABORATORIES, INC.

Petroleum Reservoir Engineering

DALLAS, TEXAS

ANSCHUTZ CORPORATION
33-1 ANSCHUTZ RANCH
ANSCHUTZ RANCH FIELD
SUMMIT COUNTY

FORMATION : TWIN CREEK
DRLG. FLUID: WATER BASE MUD
LOCATION : SW SE SEC 33 T4N-R7E
STATE : UTAH

DATE : 9-22-79
FILE NO. : RP-4-5317-R
ANALYSTS : BOYLE
ELEVATION: 7328 GR

FULL DIAMETER ANALYSIS---BOYLE'S LAW HELIUM POROSITY

SAMP. NO.	DEPTH	PERM. TO AIR (MD) MAX.	90 DEG.	VERTICAL	POR. B.L.	FLUID SATS. OIL	WATER	DESCRIPTION	
163	7986-87	1.5	1.5		0.7	9.7	87.1	2.72 LS, BLK VFXLN	VF
164	7987-88	1.4	0.71		0.5	12.0	84.1	2.72 LS, BLK VFXLN	VF
165	7988-89	<0.01	*		0.3	0.0	94.5	2.71 LS, BLK VFXLN	VF
166	7989-90	<0.01	*		0.7	0.0	92.4	2.70 LS, BLK VFXLN	VF
167	7990-91	<0.01	*		0.4	0.0	91.6	2.70 LS, BLK VFXLN	VF
168	7991-92	<0.01	*		0.3	0.0	93.6	2.70 LS, BLK VFXLN	VF
169	7992-93	10	3.2		0.7	0.0	95.0	2.72 LS, BLK VFXLN	VF
170	7993-94	<0.01	*		0.5	15.8	79.0	2.69 LS, BLK VFXLN	VF
171	7994-95	<0.01	*		0.6	0.0	95.6	2.70 LS, BLK VFXLN	VF
172	7995-96	0.37	0.28		0.5	0.0	96.8	2.71 LS, BLK VFXLN	VF
173	7996-97	<0.01	*		0.5	15.9	79.4	2.69 LS, BLK VFXLN	VF
174	7997-98	<0.01	*		0.6	12.1	84.4	2.71 LS, BLK VFXLN	VF
175	7998-99	<0.01	*		0.4	11.8	82.6	2.70 LS, BLK VFXLN	VF
	7999-8001							LOST RECOVERY	

* SAMPLE NOT SUITABLE FOR FULL DIAMETER ANALYSIS

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CORE LABORATORIES, INC.

Petroleum Reservoir Engineering

DALLAS, TEXAS

ANSCHUTZ CORPORATION
33-1 ANSCHUTZ RANCH
ANSCHUTZ RANCH FIELD
SUMMIT COUNTY

FORMATION : TWIN CREEK
DRLG. FLUID: WATER BASE MUD
LOCATION : SW SE SEC 33 T4N-R7E
STATE : UTAH

DATE : 9-22-79
FILE NO. : RP-4-5317-R
ANALYSTS : BOYLE
ELEVATION: 7328 GR

FULL DIAMETER ANALYSIS---BOYLE'S LAW HELIUM POROSITY

SAMP. NO.	DEPTH	PERM. TO AIR (MD) MAX.	90 DEG.	VERTICAL	POR. B.L.	FLUID SATS. OIL	WATER	DESCRIPTION	
138	7961-62	<0.01	*		0.9	27.6	68.9	2.73 LS, BLK VFXLN	VF
139	7962-63	0.18	0.18		0.5	0.0	94.3	2.72 LS, BLK VFXLN	VF
140	7963-64	<0.01	*		0.8	27.0	67.6	2.71 LS, BLK VFXLN	VF
141	7964-65	<0.01	*		0.5	0.0	92.8	2.70 LS, BLK VFXLN	VF
142	7965-66	2.3	1.5		0.6	27.0	67.4	2.72 LS, BLK VFXLN	VF
143	7966-67	<0.01	*		1.8	0.0	90.5	2.76 LS, BLK VFXLN	VF
144	7967-68	0.55	0.42		0.5	0.0	93.9	2.72 LS, BLK VFXLN	VF
145	7968-69	0.27	0.18		0.4	18.7	74.7	2.72 LS, BLK VFXLN	VF
146	7969-70	<0.01	*		0.6	16.0	79.9	2.70 LS, BLK VFXLN	VF
147	7970-71	<0.01	*		0.7	16.0	79.8	2.74 LS, BLK VFXLN	VF
148	7971-72	37	35		0.3	0.0	92.9	2.72 LS, BLK VFXLN	VF
149	7972-73	<0.01	*		0.4	0.0	88.7	2.71 LS, BLK VFXLN	VF
150	7973-74	1.6	1.5		0.4	23.0	69.0	2.71 LS, BLK VFXLN	VF
151	7974-75	<0.01	*		0.4	0.0	92.2	2.73 LS, BLK VFXLN	VF
152	7975-76	3.6	1.2		0.7	15.7	78.4	2.73 LS, BLK VFXLN	VF
153	7976-77	1.6	1.3		0.5	0.0	92.6	2.73 LS, BLK VFXLN	VF
154	7977-78	<0.01	*		0.5	0.0	92.7	2.73 LS, BLK VFXLN	VF
155	7978-79	0.77	0.17		0.4	0.0	93.2	2.72 LS, BLK VFXLN	VF
156	7979-80	<0.01	*		0.9	0.0	93.6	2.72 LS, BLK VFXLN	VF
157	7980-81	<0.01	*		0.6	0.0	95.4	2.69 LS, BLK VFXLN	VF
158	7981-82	<0.01	*		0.5	0.0	85.8	2.69 LS, BLK VFXLN	VF
159	7982-83	7.8	1.7		0.5	0.0	92.8	2.70 LS, BLK VFXLN	VF
160	7983-84	<0.01	*		1.1	0.0	97.1	2.70 LS, BLK VFXLN	VF
161	7984-85	<0.01	*		0.5	0.0	96.9	2.70 LS, BLK VFXLN	VF
162	7985-86	1.4	0.65		0.4	0.0	96.4	2.72 LS, BLK VFXLN	VF

* SAMPLE NOT SUITABLE FOR FULL DIAMETER ANALYSIS

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ANSCHUTZ CORPORATION
33-1 ANSCHUTZ RANCH
ANSCHUTZ RANCH FIELD
SUMMIT COUNTY

FORMATION : TWIN CREEK
DRLG. FLUID: WATER BASE MUD
LOCATION : SW SE SEC 33 T4N-R7E
STATE : UTAH

DATE : 9-22-79
FILE NO. : RP-4-5317-R
ANALYSTS : BOYLE
ELEVATION: 7328 GR

FULL DIAMETER ANALYSIS--BOYLE'S LAW HELIUM POROSITY

SAMP. NO.	DEPTH	PERM. TO AIR (MD) MAX.	90 DEG.	VERTICAL	POR. B.L.	FLUID SATS. OIL	WATER	DESCRIPTION	
118	7687-88	0.05	*		2.1	0.0	79.1	2.76 LS, GY FXLN	VF
119	7688-89	0.02	*		1.3	0.0	86.9	2.74 LS, GY FXLN	VF
120	7689-90	0.91	0.35		1.6	0.0	88.3	2.78 LS, GY VFXLN	VF
121	7690-91	0.01	*		1.1	18.8	75.2	2.71 LS, GY VFXLN SHY	VF
122	7691-92	0.01	*		0.5	0.0	91.0	2.73 LS, GY VFXLN	VF
123	7692-93	0.01	*		1.5	0.0	91.4	2.77 LS, GY VFXLN	VF
124	7693-94	<0.01	*		0.1	0.0	91.4	2.71 LS, GY VFXLN SHY	VF
125	7694-95	5.9	0.50		1.1	0.0	92.1	2.73 LS, GY VFXLN SHY	VF
126	7695-96	<0.01	*		0.4	18.5	73.8	2.70 LS, GY VFXLN SHY	VF
127	7696-97	<0.01	*		0.5	13.4	80.4	2.70 LS, GY VFXLN SHY	VF
128	7697-98	<0.01	*		0.2	0.0	94.9	2.70 LS, GY VFXLN SHY	VF
129	7698-99	55	2.5		1.0	10.6	84.9	2.73 LS, GY VFXLN SHY	VF
130	7699 -0	<0.01	*		0.7	13.3	79.9	2.73 LS, GY VFXLN TR/CALC	VF
131	7700 -1	1.4	0.90		1.1	10.7	85.5	2.76 LS, GY VFXLN	VF
132	7701 -2	<0.01	*		1.4	9.5	85.3	2.71 LS, GY VFXLN SHY	VF
	7702-7704							ALTERED CORE-NO ANALYSIS	
133	7704 -5	<0.01	*		2.0	0.0	97.0	2.91 ANHY, GY VFXLN TR/CALC	VF
134	7705 -6	<0.01	*		1.4	27.7	55.3	2.78 LS, GY VFXLN TR/CALC	VF
	7706-7707							ALTERED CORE-NO ANALYSIS	
	7707-7712							LOST RECOVERY	
	7712-7955							DRILLED	
135	7955-56	<0.01	*		0.9	0.0	93.0	2.71 LS, BLK VFXLN	VF
136	7956-57	3.5	2.8		0.9	0.0	93.4	2.73 LS, BLK VFXLN	VF
137	7957-58	<0.01	*		1.5	0.0	62.2	2.73 LS, BLK VFXLN	VF
	7958-7961							LOST RECOVERY	

* SAMPLE NOT SUITABLE FOR FULL DIAMETER ANALYSIS

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CORE LABORATORIES, INC.

Petroleum Reservoir Engineering

DALLAS, TEXAS

ANSCHUTZ CORPORATION
33-1 ANSCHUTZ RANCH
ANSCHUTZ RANCH FIELD
SUMMIT COUNTY

FORMATION : TWIN CREEK
DRLG. FLUID: WATER BASE MUD
LOCATION : SW SE SEC 33 T4N-R7E
STATE : UTAH

DATE : 9-19-79
FILE NO. : RP-4-5317-R
ANALYSTS : BOYLE
ELEVATION: 7328 GR

FULL DIAMETER ANALYSIS---BOYLE'S LAW HELIUM POROSITY

SAMP. NO.	DEPTH	PERM. TO AIR (MD) MAX.	90 DEG.	VERTICAL	POR. B.L.	FLUID SATS. OIL	WATER	DESCRIPTION
95	7594-95	<0.01	*		0.7	0.0	88.3	2.71 LS, GY VFXLN TR/CALC VF
96	7595-96	<0.01	*		1.0	0.0	92.1	2.71 LS, GY VFXLN VF
97	7596-97	<0.01	*		0.8	0.0	90.6	2.72 LS, GY VFXLN VF
98	7597-98	0.01	*		0.9	0.0	85.0	2.70 LS, GY VFXLN VF
99	7598-99	<0.01	*		0.8	0.0	90.2	2.71 LS, GY VFXLN VF
100	7599 -0	0.01	*		1.0	0.0	73.4	2.74 LS, GY VFXLN TR/CALC VF
101	7600 -1	<0.01	*		0.6	0.0	71.7	2.71 LS, GY VFXLN VF
102	7601 -2	<0.01	*		0.9	0.0	77.3	2.71 LS, GY VFXLN VF
103	7602 -3	0.01	*		1.0	0.0	77.6	2.73 LS, GY VFXLN VF
104	7603 -4	0.06	*		0.7	0.0	82.5	2.72 LS, GY VFXLN VF
105	7604 -5	0.24	*		0.9	0.0	95.4	2.72 LS, GY VFXLN VF
106	7605 -6	<0.01	*		0.8	0.0	73.7	2.71 LS, GY VFXLN VF
107	7606 -7	6.5	2.7		1.1	0.0	92.7	2.71 LS, GY VFXLN VF
108	7607 -8	0.01	*		1.0	0.0	94.8	2.71 LS, GY VFXLN
109	7608 -9	0.09	*		1.0	0.0	91.9	2.71 LS, GY VFXLN
110	7609-10	<0.01	*		0.9	0.0	94.5	2.71 LS, GY VFXLN
	7610-7611							ALTERED CORE-NO ANALYSIS
	7611-7680							DRILLED
111	7680-81	0.04	*		0.8	0.0	90.9	2.89 ANHY, GY DNS VF
112	7681-82	0.01	*		0.7	0.0	96.7	2.74 LS, GY VFXLN VF
113	7682-83	0.08	*		0.4	0.0	90.7	2.72 LS, MGY VFXLN SHY VF
114	7683-84	0.02	*		0.3	0.0	92.6	2.71 LS, MGY VFXLN SHY VF
115	7684-85	0.02	*		0.5	0.0	89.0	2.70 LS, MGY VFXLN SHY VF
116	7685-86	0.01	*		0.7	10.8	86.1	2.70 LS, MGY VFXLN SHY VF
117	7686-87	0.02	*		0.5	13.6	81.7	2.70 LS, MGY VFXLN SHY VF

* SAMPLE NOT SUITABLE FOR FULL DIAMETER ANALYSIS

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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

ANSCHUTZ CORPORATION
33-1 ANSCHUTZ RANCH
ANSCHUTZ RANCH FIELD
SUMMIT COUNTY

FORMATION : TWIN CREEK
DRLG. FLUID: WATER BASE MUD
LOCATION : SW SE SEC 33 T4N-R7E
STATE : UTAH

DATE : 9-10-79
FILE NO. : RP-4-5317-R
ANALYSTS : BOYLE
ELEVATION: 7328 GR

FULL DIAMETER ANALYSIS--BOYLE'S LAW HELIUM POROSITY

SAMP. NO.	DEPTH	PERM. TO AIR (MD) MAX.	90 DEG.	VERTICAL	POR. B.L.	FLUID SATS. OIL	WATER	DESCRIPTION	
71	7509-10	<0.01	*		0.7	0.0	72.2	2.70 LS, GY DNS TR/CALC	
72	7510-11	<0.01	*		0.5	0.0	76.3	2.70 LS, GY DNS	
73	7511-12	0.29	0.17		1.1	0.0	84.7	2.73 LS, GY VFXLN TR/CALC	
74	7512-13	0.06	*		0.7	0.0	75.6	2.70 LS, GY DNS	
75	7513-14	0.02	*		1.2	0.0	66.7	2.71 LS, GY VFXLN TR/CALC	
76	7514-15	0.03	*		0.8	0.0	72.9	2.70 LS, GY DNS	
77	7515-16	<0.01	*		1.3	0.0	74.9	2.70 LS, GY DNS	
78	7516-17	<0.01	*		1.0	0.0	75.0	2.70 LS, GY VFXLN	
79	7517-18	0.01	*		1.7	0.0	84.3	2.70 LS, GY VFXLN TR/CALC	VF
80	7518-19	<0.01	*		1.4	0.0	77.2	2.72 LS, GY VFXLN TR/CALC	VF
	7519-7580							DRILLED	
81	7580-81	0.02	*		0.7	0.0	45.5	2.71 LS, GY DNS	
82	7581-82	0.02	*		0.8	0.0	78.0	2.71 LS, GY DNS	
83	7582-83	0.56	0.52		0.9	0.0	70.2	2.72 LS, GY DNS	VF
84	7583-84	1.9	0.28		1.0	0.0	57.9	2.72 LS, GY VFXLN	VF
85	7584-85	0.04	*		1.1	0.0	46.1	2.71 LS, GY VFXLN TR/CALC	
86	7585-86	0.01	*		1.0	0.0	65.2	2.71 LS, GY DNS	
87	7586-87	11	6.6		1.1	0.0	70.5	2.72 LS, GY VFXLN	VF
88	7587-88	4.6	2.8		1.6	0.0	63.1	2.73 LS, GY VFXLN	VF
89	7588-89	0.02	*		0.7	0.0	62.9	2.70 LS, GY DNS	
90	7589-90	5.9	1.0		1.1	0.0	56.3	2.72 LS, GY VFXLN TR/CALC	VF
91	7590-91	0.01	*		1.6	0.0	79.0	2.73 LS, GY VFXLN	VF
92	7591-92	0.02	*		0.7	0.0	63.6	2.71 LS, GY VFXLN	VF
93	7592-93	0.01	*		1.0	0.0	64.7	2.71 LS, GY VFXLN	VF
94	7593-94	0.01	*		1.1	0.0	80.1	2.71 LS, GY VFXLN	VF

* SAMPLE NOT SUITABLE FOR FULL DIAMETER ANALYSIS

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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

ANSCHUTZ CORPORATION
33-1 ANSCHUTZ RANCH
ANSCHUTZ RANCH FIELD
SUMMIT COUNTY

FORMATION : TWIN CREEK
DRLG. FLUID: WATER BASE MUD
LOCATION : SW SE SEC 33 T4N-R7E
STATE : UTAH

DATE : 9-10-79
FILE NO. : RP-4-5317-R
ANALYSTS : BOYLE
ELEVATION: 7328 GR

FULL DIAMETER ANALYSIS---BOYLE'S LAW HELIUM POROSITY

SAMP. NO.	DEPTH	PERM. TO AIR (MD) MAX.	90 DEG.	VERTICAL	POR. B.L.	FLUID SATS. OIL	WATER	DESCRIPTION	
46	7484-85	<0.01	*		1.0	0.0	89.1	2.70 LS, GY VFXLN	VF
47	7485-86	<0.01	*		1.8	0.0	89.1	2.71 LS, GY VFXLN	VF
48	7486-87	0.02	*		2.1	0.0	85.5	2.71 LS, GY DNS TR/CALC	
49	7487-88	0.11	*		1.0	0.0	93.1	2.70 LS, GY DNS	
50	7488-89	0.10	*		1.8	0.0	80.4	2.70 LS, GY DNS	
51	7489-90	0.04	*		1.7	0.0	86.8	2.70 LS, GY DNS	
52	7490-91	0.24	*		1.2	0.0	73.4	2.71 LS, GY DNS	
53	7491-92	<0.01	*		0.8	0.0	74.4	2.70 LS, GY DNS	
54	7492-93	2.3	0.18		1.0	0.0	87.9	2.72 LS, GY DNS TR/CALC	VF
55	7493-94	0.02	*		1.0	0.0	90.4	2.71 LS, GY DNS	
56	7494-95	0.02	*		1.0	0.0	93.2	2.70 LS, GY DNS	VF
57	7495-96	<0.01	*		0.9	0.0	78.1	2.71 LS, GY DNS	VF
58	7496-97	0.02	*		1.1	0.0	83.7	2.70 LS, GY DNS TR/CALC	
59	7497-98	<0.01	*		0.6	0.0	85.9	2.70 LS, GY DNS	
60	7498-99	<0.01	*		1.2	0.0	78.0	2.71 LS, GY DNS TR/CALC	
61	7499 -0	0.02	*		0.8	0.0	86.1	2.71 LS, GY DNS	
62	7500 -1	<0.01	*		1.1	0.0	76.4	2.71 LS, GY DNS	
63	7501 -2	0.01	*		1.1	0.0	64.5	2.71 LS, GY VFXLN	
64	7502 -3	<0.01	*		0.9	0.0	83.4	2.70 LS, GY DNS	
65	7503 -4	<0.01	*		1.0	0.0	77.0	2.70 LS, GY DNS	
66	7504 -5	0.01	*		1.5	0.0	74.6	2.72 LS, GY DNS TR/CALC	
67	7505 -6	0.01	*		1.7	0.0	79.6	2.71 LS, GY DNS	
68	7506 -7	0.08	*		0.9	0.0	72.9	2.71 LS, GY DNS	
69	7507 -8	0.02	*		1.0	0.0	71.1	2.71 LS, GY DNS	
70	7508 -9	<0.01	*		0.7	0.0	65.3	2.70 LS, GY VFXLN TR/CALC	

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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

ANSCHUTZ CORPORATION
33-1 ANSCHUTZ RANCH
ANSCHUTZ RANCH FIELD
SUMMIT COUNTY

FORMATION : TWIN CREEK
DRLG. FLUID: WATER BASE MUD
LOCATION : SW SE SEC 33 T4N-R7E
STATE : UTAH

DATE : 9-10-79
FILE NO. : RP-4-5317-R
ANALYSTS : BOYLE
ELEVATION: 7328 GR

FULL DIAMETER ANALYSIS--BOYLE'S LAW HELIUM POROSITY

SAMP. NO.	DEPTH	PERM. TO AIR (MD) MAX.	90 DEG.	VERTICAL	POR. B.L.	FLUID SATS. OIL	WATER	DESCRIPTION	
24	7269-70	<0.01	*		0.8	0.0	91.8	2.70 LS, GY VFXLN SHY	VF
25	7270-71	<0.01	*		0.3	0.0	90.6	2.69 LS, GY VFXLN SHY	VF
26	7271-72	<0.01	*		0.2	0.0	90.2	2.69 LS, GY VFXLN SHY	VF
27	7272-73	<0.01	*		1.0	0.0	93.1	2.70 LS, GY VFXLN SHY	VF
	7273-7291							LOST RECOVERY	
	7291-7464							DRILLED	
28	7464-65	0.01	*		1.2	0.0	88.6	2.71 LS, GY DNS	
29	7465-66	<0.01	*		0.9	0.0	84.0	2.71 LS, GY DNS	
30	7466-67	<0.01	*		1.0	0.0	78.7	2.70 LS, GY DNS	
31	7467-68	0.01	*		1.9	0.0	89.0	2.71 LS, GY DNS	
32	7468-69	<0.01	*		1.1	0.0	90.5	2.71 LS, GY VFXLN	
33	7469-70	<0.01	*		1.1	0.0	64.1	2.70 LS, GY VFXLN	
34	7470-71	0.03	*		1.0	0.0	59.2	2.70 LS, GY VFXLN TR/CALC	
35	7471-72	0.01	*		1.3	0.0	61.4	2.76 LS, GY DNS TR/CALC	
36	7472-73	0.06	*		0.9	0.0	82.3	2.71 LS, GY DNS	
37	7473-74	0.07	*		1.0	0.0	76.7	2.71 LS, GY VFXLN	
38	7474-75	0.05	*		1.7	0.0	70.4	2.82 LS, GY VFXLN ABNT/ANHY	
39	7475-76	0.09	*		1.2	0.0	73.7	2.75 LS, GY VFXLN TR/ANHY	
	7476-7478							LOST RECOVERY	
40	7478-79	0.06	*		1.9	0.0	84.3	2.71 LS, GY VFXLN ABNT/CALC	VF
41	7479-80	0.03	*		1.7	0.0	76.5	2.71 LS, GY VFXLN TR/CALC	VF
42	7480-81	<0.01	*		1.7	0.0	64.3	2.71 LS, GY VFXLN	VF
43	7481-82	<0.01	*		1.2	0.0	82.1	2.71 LS, GY VFXLN	VF
44	7482-83	<0.01	*		1.2	0.0	86.4	2.71 LS, GY VFXLN TR/CALC	VF
45	7483-84	0.01	*		1.7	0.0	90.1	2.71 LS, GY VFXLN	VF

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CORE LABORATORIES, INC.

Petroleum Reservoir Engineering

DALLAS, TEXAS

ANSCHUTZ CORPORATION
33-1 ANSCHUTZ RANCH
ANSCHUTZ RANCH FIELD
SUMMIT COUNTY

FORMATION : TWIN CREEK
DRLG. FLUID: WATER BASE MUD
LOCATION : SW SE SEC 33 T4N-R7E
STATE : UTAH

DATE : 9-8-79
FILE NO. : RP-4-5317-R
ANALYSTS : BOYLE
ELEVATION: 7328 GR

FULL DIAMETER ANALYSIS---BOYLE'S LAW HELIUM POROSITY

SAMP. NO.	DEPTH	PERM. TO AIR (MD) MAX.	90 DEG.	VERTICAL	POR. B.L.	FLUID SATS. OIL	WATER	DESCRIPTION
1	7151-52	<0.01	*		0.7	0.0	88.2	2.65 LS, GY VFXLN SHY VF
2	7152-53	<0.01	*		0.7	0.0	54.5	2.64 LS, GY VFXLN SHY VF
3	7153-54	<0.01	*		0.7	0.0	76.9	2.66 LS, GY VFXLN SHY VF
4	7154-55	<0.01	*		0.4	0.0	81.5	2.63 LS, GY VFXLN SHY VF
5	7155-56	<0.01	*		0.6	0.0	79.1	2.61 LS, GY VFXLN SHY VF
6	7156-57	<0.01	*		0.9	0.0	92.8	2.64 LS, GY VFXLN SHY VF
7	7157-58	<0.01	*		0.6	0.0	84.1	2.63 LS, GY VFXLN SHY VF
8	7158-59	<0.01	*		0.7	0.0	96.7	2.63 LS, GY VFXLN SHY VF
9	7159-60	<0.01	*		0.5	0.0	78.1	2.64 LS, GY VFXLN SHY VF
10	7160-61	<0.01	*		0.6	0.0	90.5	2.67 LS, GY VFXLN SHY VF
11	7161-62	<0.01	*		0.6	0.0	94.6	2.67 LS, GY VFXLN SHY VF
12	7162-63	<0.01	*		1.0	0.0	90.7	2.69 LS, GY VFXLN SHY VF
13	7163-64	<0.01	*		1.0	0.0	87.5	2.70 LS, GY VFXLN SHY VF
14	7164-65	<0.01	*		0.6	0.0	92.4	2.70 LS, GY VFXLN SHY VF
15	7165-66	<0.01	*		1.2	0.0	95.3	2.69 LS, GY VFXLN SHY VF
16	7166-67	<0.01	*		1.3	0.0	93.3	2.66 LS, GY VFXLN SHY VF
17	7167-68	<0.01	*		0.6	8.7	78.6	2.68 LS, GY VFXLN SHY VF
18	7168-69	<0.01	*		0.6	0.0	93.7	2.68 LS, GY VFXLN SHY VF
19	7169-70	<0.01	*		0.9	0.0	91.9	2.70 LS, GY VFXLN SHY VF
20	7170-71	<0.01	*		0.8	0.0	95.8	2.68 LS, GY VFXLN SHY VF
	7171-7172							LOST RECOVERY
	7172-7266							DRILLED
21	7266-67	<0.01	*		1.1	0.0	89.8	2.70 LS, GY VFXLN SHY VF
22	7267-68	<0.01	*		0.7	0.0	89.7	2.69 LS, GY VFXLN SHY VF
23	7268-69	<0.01	*		0.7	0.0	87.2	2.70 LS, GY VFXLN SHY VF

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JS-164

COMPANY THE ANSCHUTZ CORPORATION WELL ANSCHUTZ RANCH #33-1 TEST NO. 2 COUNTY SUMMIT STATE UTAH

JOHNSTON

Schlumberger

technical report

F.R. # 16110 D

WELL IDENTIFICATION

COMPANY:	THE ANSCHUTZ CORP. 555 - 17TH. ST.; SUITE 2400 DENVER, COLORADO 80202	CUSTOMER:	SAME
WELL:	ANSCHUTZ RANCH #33-1	LOCATION:	SEC. 33 - 4N - 7E
TEST INTERVAL:	7460' TO 7680'	FIELD:	WILD CAT
TEST NO:	2	TEST DATE:	9-17-79
COUNTY:	SUMMIT	STATE:	UTAH
TECHNICIAN:	GREENFIELD (ROCK SPRINGS)	TEST APPROVED BY:	MR. TED M. STRADER

EQUIPMENT AND HOLE DATA

TEST TYPE:	M.F.E. OPEN HOLE		DRILL PIPE LENGTH:	6978	FT.
			DRILL PIPE I.D.:	-	IN.
ELEVATION:	-	FT.	DRILL COLLAR LENGTH:	450	FT.
TOTAL DEPTH:	7680	FT.	DRILL COLLAR I.D.:	-	IN.
MAIN HOLE/CASING SIZE:	8 3/4	IN.	PACKER DEPTHS:	7454 & 7460	FT.
RAT HOLE/LINER SIZE:	-	IN.		&	FT.
FORMATION TESTED:	TWIN CREEK			&	FT.
NET PROD. INTERVAL:	-	FT.	DEPTHS REF. TO:	KELLY BUSHING	
POROSITY:	-	%			

TEST TOOL CHAMBER DATA

SAMPLER PRESSURE:	100	PSIG
RECOVERED OIL GRAVITY:	- API @	- DEG. F.
RECOVERY GOR:	-	FT3/BBL.

SAMPLE CHAMBER CONTENTS

FLUID	VOLUME	RESIST. (OHM-M)	MEAS. TEMP. (DEG F.)	CHLOR. (PPM)
GAS:	.7 FT.3			
OIL:	- CC			
WATER:	10 CC	-	-	22000
MUD:	- CC			
FILTRATE:				
TOTAL LIQUID:	10 CC			

MUD DATA

TYPE:	LSND		
WEIGHT:	8.9	LB/GAL.	
VISCOSITY:	45-50	SEC.	
WATER LOSS:	9.0	CC	
FLUID	RESIST (OHM-M)	TEMP (DEG F)	CHLOR (PPM)
MUD:	2.8	70	
FILTRATE:	1.9	70	3000

REMARKS

MUD LOSS DURING TEST - 3'.
-

NO. OF REPORTS REQUESTED: 10 (5X)

FIELD REPORT NO. 16110D

SURFACE INFORMATION

DESCRIPTION(RATE OF FLOW)	TIME	PRESSURE PSIG	SURFACE CHOKE
OPENED TOOL	12Ø8	-	-
SLIGHT BLOW, INCREASING TO 6" IN WATER			
BLOW, 1Ø" IN WATER	1211	-	-
CLOSED FOR INITIAL SHUT-IN	1211	-	-
BLOW DIED	1219	-	-
FINISHED SHUT-IN	1241	-	-
RE-OPENED TOOL	1244	4	1/8"
BLOW OFF BOTTOM OF BUCKET			
	1247	5	"
OPENED TO FLARE LINE	1255	-	"
	1258	Ø	"
BLOW, 6" IN WATER FOR BALANCE OF TEST			
CLOSED FOR FINAL SHUT-IN	1416	Ø	"
FINISHED SHUT-IN	1545	-	"
PULLED PACKER LOOSE	1546	-	-

CUSHION TYPE: - - FT - PSIG | 15/16 IN. BOTTOM CHOKE

RECOVERY INFORMATION

RECOVERY	FEET	BARRELS	%OIL	%WATER	%OTHERS	API GRAV.	DEG.	RESIST	DEG.	CHL PPM
DRILLING MUD	2ØØ	-	-	-	-	-	-	2.8	69	3ØØØ

FIELD REPORT NO. 1611ØD

JOHNSTON
Schlumberger

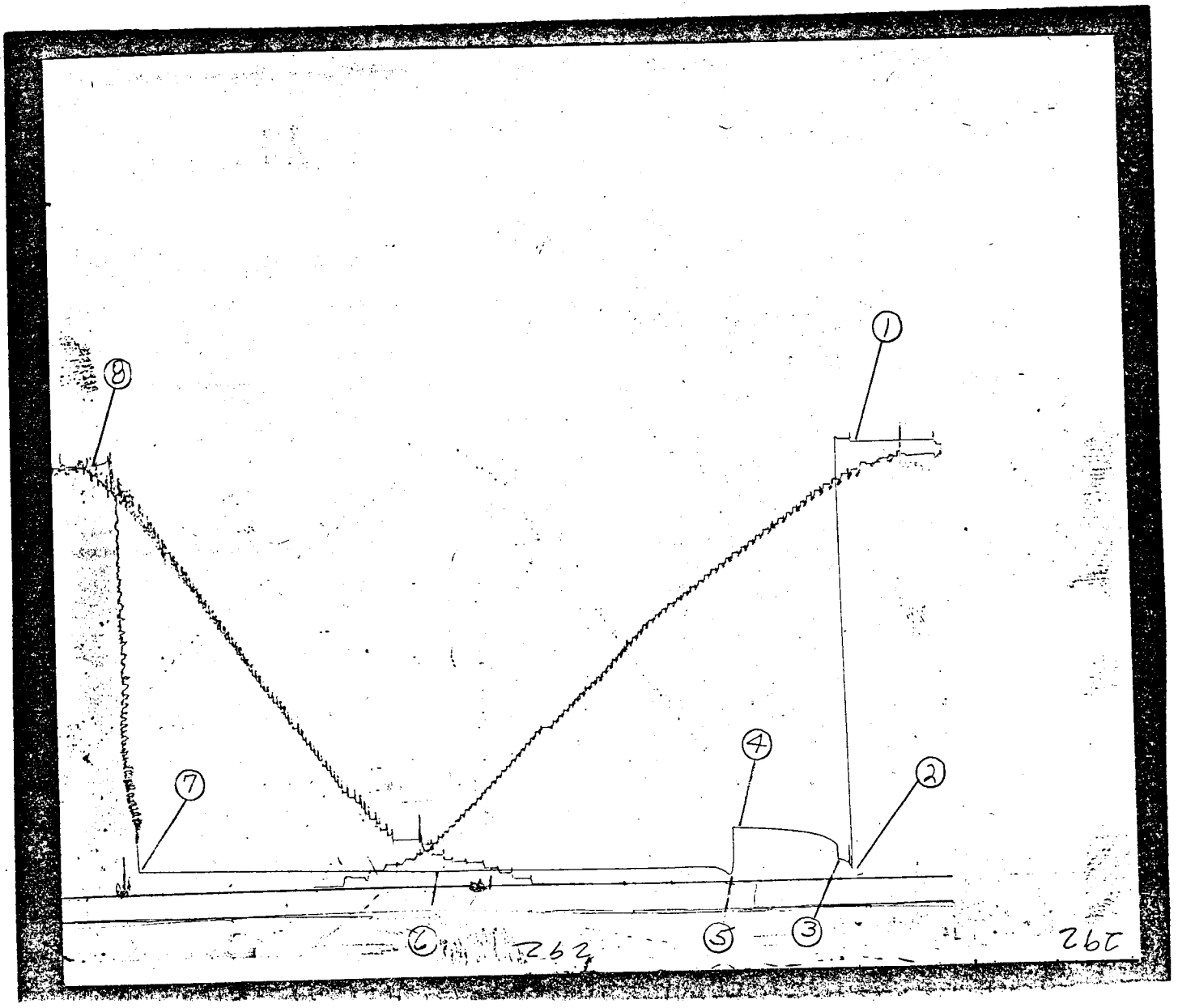
FIELD REPORT NO.: 16110 D

CAPACITY: 6400#

INSTRUMENT NO.: J-292

NUMBER OF REPORTS: 10+

CHARTS INDICATE PERFORATED ANCHOR PLUGGING DURING THE INITIAL FLOW PERIOD.

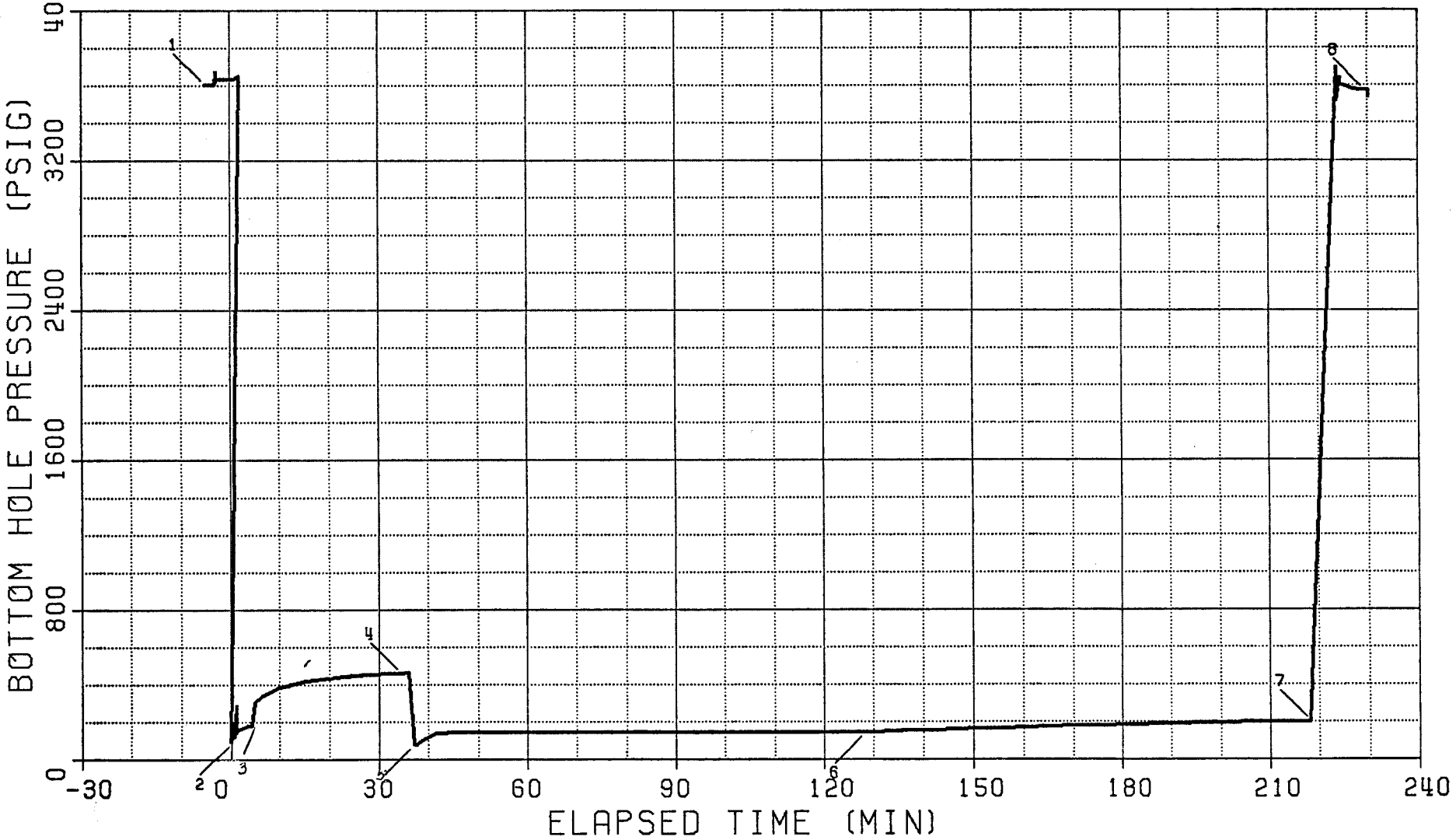


PRESSURE LOG

FIELD REPORT NO. 16110D

INSTRUMENT:

NUMBER: J-292
CAPACITY: 6400 PSI
DEPTH: 7463 FT
PORT OPENING: INSIDE



BOTTOM HOLE PRESSURE AND TIME DATA

INSTRUMENT NO.: J-292 CAPACITY (PSI): 6400 DEPTH (FT): 7463
PORT OPENING: INSIDE BOTTOM HOLE TEMP (F): 131 PAGE 1

EXPLANATION	LABELED POINT	PRESSURE (PSIG)	ELAPSED TIME (MIN)
HYDROSTATIC MUD	1	3606	-5.1
START FLOW	2	87	0.0
END FLOW & START SHUT-IN	3	182	4.3
END SHUT-IN	4	461	34.4
START FLOW	5	80	37.1
END FLOW & START SHUT-IN	6	144	128.3
END SHUT-IN	7	202	218.1
HYDROSTATIC MUD	8	3574	229.6

SUMMARY OF FLOW PERIODS

FLOW PERIOD	ELAPSED TIME AT START (MIN)	ELAPSED TIME AT END (MIN)	DURATION OF FLOW (MIN)	PRESSURE AT START (PSIG)	PRESSURE AT END (PSIG)
1	0.0	4.3	4.3	87	182
2	37.1	128.3	91.2	80	144

SUMMARY OF SHUT-IN PERIODS

SHUT-IN PERIOD	ELAPSED TIME AT START (MIN)	ELAPSED TIME AT END (MIN)	DURATION OF SHUT-IN (MIN)	PRESSURE AT START (PSIG)	PRESSURE AT END (PSIG)	FINAL FLOW PRESSURE (PSIG)	PRODUCING TIME (MIN)
1	4.3	34.4	30.1	182	461	182	4.3
2	128.3	218.1	89.8	144	202	144	95.5

FIELD REPORT NO. 16110D
INSTRUMENT NO. J-292

FIELD REPORT NO. 16110D
INSTRUMENT NO. J-292

TEST PHASE : FLOW PERIOD # 1

ELAPSED TIME (MIN)	DELTA TIME (MIN)	FLOWING PRESSURE (PSIG)
0.0	0.0	87
4.3	4.3	182

TEST PHASE : SHUT-IN PERIOD # 1

1. FINAL FLOW PRESSURE ["P_{WF}"] = 182 PSIG
2. PRODUCING TIME ["T_P"] = 4.3 MIN

ELAPSED TIME (MIN)	DELTA TIME ["DT"] (MIN)	SHUT-IN PRESSURE ["P_{WS}"] (PSIG)	LOG [(T_P+DT)/DT]	DELTA PRESSURE [P_{WS} - P_{WF}]
4.3	0.0	182		0
5.3	1.0	316	0.725	134
6.3	2.0	338	0.499	156
7.3	3.0	352	0.387	170
8.3	4.0	367	0.318	185
9.3	5.0	378	0.270	196
10.3	6.0	387	0.235	205
11.3	7.0	395	0.208	212
12.3	8.0	402	0.187	220
13.3	9.0	409	0.170	227
14.3	10.0	414	0.156	232
16.3	12.0	423	0.133	241
18.3	14.0	429	0.117	247
20.3	16.0	435	0.104	253
22.3	18.0	441	0.093	259
24.3	20.0	446	0.085	264
26.3	22.0	451	0.078	269
28.3	24.0	455	0.072	273
30.3	26.0	457	0.067	275
32.3	28.0	460	0.062	278
34.3	30.0	461	0.058	279
34.4	30.1	461	0.058	279

FIELD REPORT NO. 1611ØD
INSTRUMENT NO. J-292

TEST PHASE : FLOW PERIOD # 2
****

ELAPSED TIME (MIN)	DELTA TIME (MIN)	FLOWING PRESSURE (PSIG)
37.1	Ø.Ø	8Ø
42.1	5.Ø	142
47.1	1Ø.Ø	147
52.1	15.Ø	147
57.1	2Ø.Ø	147
62.1	25.Ø	146
67.1	3Ø.Ø	146
72.1	35.Ø	146
77.1	4Ø.Ø	146
82.1	45.Ø	146
87.1	5Ø.Ø	146
92.1	55.Ø	146
97.1	6Ø.Ø	145
1Ø2.1	65.Ø	145
1Ø7.1	7Ø.Ø	145
112.1	75.Ø	145
117.1	8Ø.Ø	145
122.1	85.Ø	145
127.1	9Ø.Ø	145
128.3	91.2	144

TEST PHASE : SHUT-IN PERIOD # 2
****

1. FINAL FLOW PRESSURE ["P_{WF}"] = 144 PSIG
2. PRODUCING TIME ["T_P"] = 95.5 MIN

ELAPSED TIME (MIN)	DELTA TIME ["DT"] (MIN)	SHUT-IN PRESSURE ["P_{WS}"] (PSIG)	LOG [(T_P+DT)/DT]	DELTA PRESSURE [P_{WS} - P_{WF}]
128.3	Ø.Ø	144		Ø
129.3	1.Ø	145	1.985	1
13Ø.3	2.Ø	146	1.688	2
131.3	3.Ø	147	1.516	2
132.3	4.Ø	148	1.396	4
133.3	5.Ø	149	1.3Ø3	5
134.3	6.Ø	15Ø	1.228	6
135.3	7.Ø	151	1.166	7
136.3	8.Ø	152	1.112	7
137.3	9.Ø	153	1.Ø65	8
138.3	1Ø.Ø	154	1.Ø23	9
14Ø.3	12.Ø	155	Ø.952	1Ø
142.3	14.Ø	156	Ø.893	11
144.3	16.Ø	158	Ø.843	14

FIELD REPORT NO. 1611ØD
INSTRUMENT NO. J-292

TEST PHASE : SHUT-IN PERIOD # 2
****

1. FINAL FLOW PRESSURE ["P_{WF}"] = 144 PSIG
2. PRODUCING TIME ["T_P"] = 95.5 MIN

ELAPSED TIME (MIN)	DELTA TIME ["DT"] (MIN)	SHUT-IN PRESSURE ["P_{WS}"] (PSIG)	LOG [(T_P+DT)/DT]	DELTA PRESSURE [P_{WS} - P_{WF}]
146.3	18.Ø	161	Ø.8ØØ	16
148.3	2Ø.Ø	162	Ø.762	18
15Ø.3	22.Ø	163	Ø.728	19
152.3	24.Ø	164	Ø.697	2Ø
154.3	26.Ø	166	Ø.67Ø	21
156.3	28.Ø	167	Ø.645	23
158.3	3Ø.Ø	168	Ø.622	24
163.3	35.Ø	172	Ø.572	28
168.3	4Ø.Ø	177	Ø.53Ø	32
173.3	45.Ø	18Ø	Ø.494	36
178.3	5Ø.Ø	183	Ø.464	39
183.3	55.Ø	187	Ø.437	42
188.3	6Ø.Ø	19Ø	Ø.414	46
193.3	65.Ø	192	Ø.393	47
198.3	7Ø.Ø	194	Ø.374	49
2Ø3.3	75.Ø	197	Ø.357	52
2Ø8.3	8Ø.Ø	2ØØ	Ø.341	56
213.3	85.Ø	2Ø1	Ø.327	57
218.1	89.8	2Ø2	Ø.315	57

JOHNSTON
Schlumberger

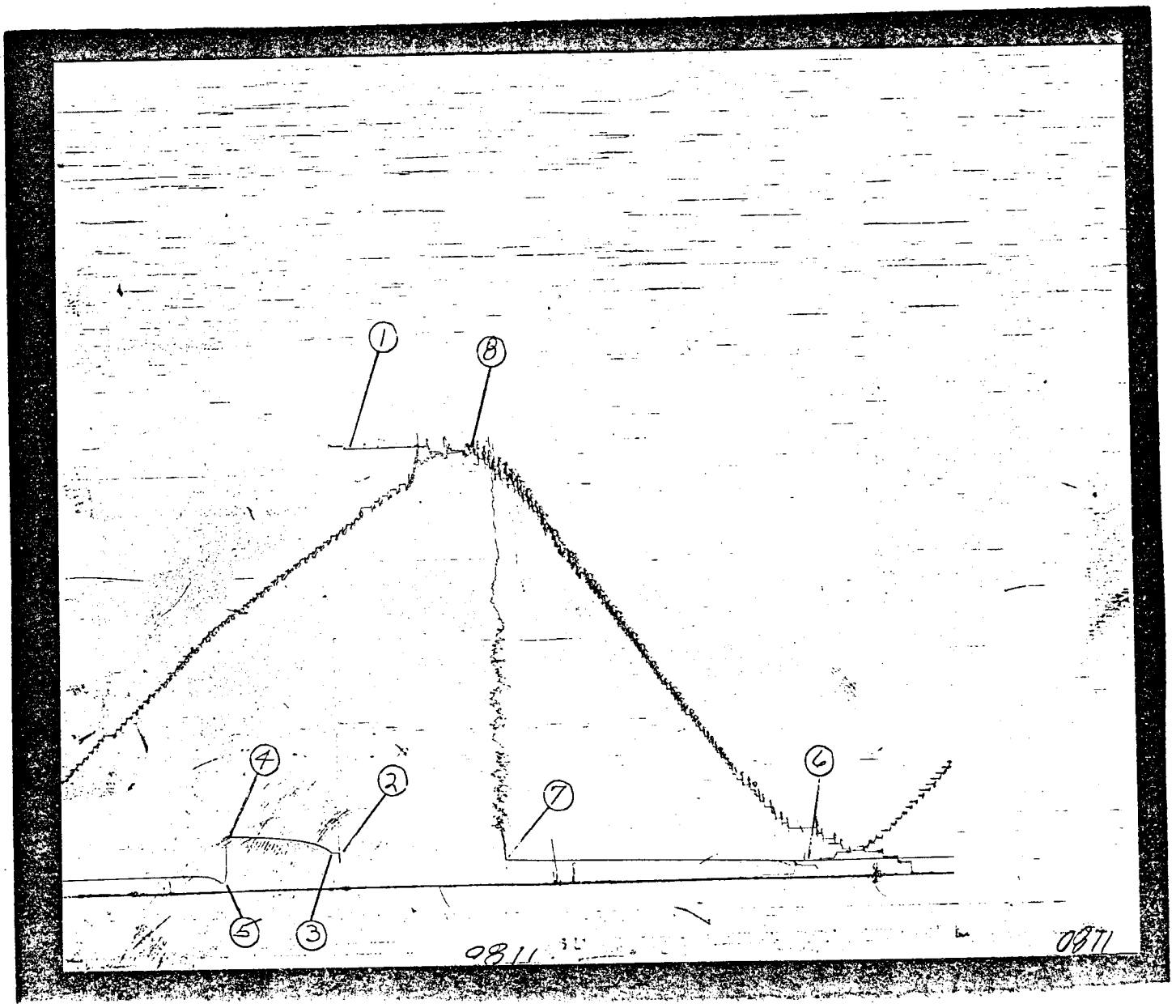
FIELD REPORT NO.: 16110 D

CAPACITY: 6400#

INSTRUMENT NO.: J-1180

NUMBER OF REPORTS: 10+

CHARTS INDICATE PERFORATED ANCHOR PLUGGING DURING THE INITIAL FLOW PERIOD.



BOTTOM HOLE PRESSURE AND TIME DATA

INSTRUMENT NO.: J-118Ø CAPACITY (PSI): 64ØØ DEPTH (FT): 7469
PORT OPENING: OUTSIDE BOTTOM HOLE TEMP (F): 131

EXPLANATION	LABELED POINT	PRESSURE (PSIG)	ELAPSED TIME (MIN)
HYDROSTATIC MUD	1	3578	-7.2
START FLOW	2	288	Ø.Ø
END FLOW & START SHUT-IN	3	292	2.2
END SHUT-IN	4	451	32.7
START FLOW	5	7Ø	34.6
END FLOW & START SHUT-IN	6	131	128.4
END SHUT-IN	7	199	216.9
HYDROSTATIC MUD	8	3542	224.3

SUMMARY OF FLOW PERIODS

FLOW PERIOD	ELAPSED TIME AT START (MIN)	ELAPSED TIME AT END (MIN)	DURATION OF FLOW (MIN)	PRESSURE AT START (PSIG)	PRESSURE AT END (PSIG)
1	Ø.Ø	2.2	2.2	288	292
2	34.6	128.4	93.8	7Ø	131

SUMMARY OF SHUT-IN PERIODS

SHUT-IN PERIOD	ELAPSED TIME AT START (MIN)	ELAPSED TIME AT END (MIN)	DURATION OF SHUT-IN (MIN)	PRESSURE AT START (PSIG)	PRESSURE AT END (PSIG)	FINAL FLOW PRESSURE (PSIG)	PRODUCING TIME (MIN)
1	2.2	32.7	3Ø.5	292	451	292	2.2
2	128.4	216.9	88.6	131	199	131	96.Ø

FIELD REPORT NO. 1611ØD
INSTRUMENT NO. J-118Ø

File

JOHNSTON
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CONFIRMATION OF TECHNICAL REPORT DISTRIBUTION

CUSTOMER THE ANSCHUTZ CORPORATION **FIELD REPORT NO.** 16071 D **DATE** 9-10-79

COMPANY SAME AS ABOVE **LEASE** ANSCHUTZ RANCH **WELL NO.** 33-1

COUNTY SUMMIT **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)
THE ANSCHUTZ CORPORATION
555-17TH STREET; SUITE 2400
DENVER, COLORADO 80202
ATTN: GEORGE SCHLICK

1 TECHNICAL REPORT (S)
NATURAL GAS PIPELINE
720 S. COLORADO BLVD.; SOUTH TOWER;
SUITE 1160
DENVER, COLORADO 80222
ATTN: TIM LOVESETH

1 TECHNICAL REPORT (S)
RON JANC
6946 WEST 14TH AVE.
LAKEWOOD, COLO. 80215

3 TECHNICAL REPORT (S)
AMOCO PRODUCTION COMPANY
SECURITY LIFE BLDG.
DENVER, COLO. 80202
ATTN: CLIFF BRUCE

2 TECHNICAL REPORT (S)
CHAMPLIN PETROLEUM
BOX 1257
ENGLEWOOD, COLORADO 80150
ATTN: GINNY GREEN & T.W. FAUTIN

1 TECHNICAL REPORT (S)
DIVISION OF OIL, GAS & MINING
1588 WEST NORTH TEMPLE
SALT LAKE CITY, UTAH 84116

_____ TECHNICAL REPORT (S)

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It is our pleasure to be of service.

JOHNSTON

RECEIVED SEP 27 1979 DIVISION OF OIL, GAS & MINING

JS-164

COMPANY THE ANSCHUTZ CORPORATION WELL ANSCHUTZ RANCH #33-1 TEST NO. 1 COUNTY SUMMIT STATE UTAH

JOHNSTON

Schlumberger

technical report

F.R. # 16071 D

WELL IDENTIFICATION

COMPANY:	THE ANSCHUTZ CORPORATION 555-17TH STREET; SUITE 2400 DENVER, COLORADO 80202	CUSTOMER:	SAME
WELL:	ANSCHUTZ RANCH #33-1	LOCATION:	SEC. 33 - 4N - 7E
TEST INTERVAL:	7141' TO 7291'	FIELD:	WILD CAT
TEST NO:	1	TEST DATE:	9-10-79
COUNTY:	SUMMIT	STATE:	UTAH
TECHNICIAN:	WHEELER (ROCK SPRINGS)	TEST APPROVED BY:	MR. TED STRADER

EQUIPMENT AND HOLE DATA

TEST TYPE:	M.F.E. OPEN HOLE		DRILL PIPE LENGTH:	6667	FT.
			DRILL PIPE I.D.:	-	IN.
ELEVATION:	-	FT.	DRILL COLLAR LENGTH:	436	FT.
TOTAL DEPTH:	7291	FT.	DRILL COLLAR I.D.:	-	IN.
MAIN HOLE/CASING SIZE:	8 3/4	IN.	PACKER DEPTHS:	7137 & 7141	FT.
RAT HOLE/LINER SIZE:	-	IN.		&	FT.
FORMATION TESTED:	TWIN CREEK			&	FT.
NET PROD. INTERVAL:	-	FT.	DEPTHS REF. TO:	KELLY BUSHING	
POROSITY:	-	%			

TEST TOOL CHAMBER DATA

SAMPLER PRESSURE:	10	PSIG
RECOVERED OIL GRAVITY:	- API @	- DEG. F.
RECOVERY GOR:	-	FT3/BBL.

SAMPLE CHAMBER CONTENTS

FLUID	VOLUME	RESIST. (OHM-M)	MEAS. TEMP. (DEG F.)	CHLOR. (PPM)
GAS:	- FT.3			
OIL:	- CC			
WATER:	- CC	-	-	-
MUD:	1900 CC	2.8	68	
FILTRATE:		2.0	68	4000
TOTAL LIQUID:	1900 CC			

MUD DATA

TYPE:	L.S.N.D.	
WEIGHT:	8.9	LB/GAL.
VISCOSITY:	41	SEC.
WATER LOSS:	9.0	CC

FLUID	RESIST (OHM-M)	TEMP (DEG F)	CHLOR (PPM)
MUD:	2.8	64	
FILTRATE:	2.0	64	4000

REMARKS

MUD LOSS DRUING D.S.T. 3' PER HOUR.

NO. OF REPORTS REQUESTED: 10 (5X)

FIELD REPORT NO. 16071D

SURFACE INFORMATION

DESCRIPTION(RATE OF FLOW)	TIME	PRESSURE PSIG	SURFACE CHOKE
OPENED TOOL	Ø635	-	1/8"
BLOW, 1/2" IN WATER			
BLOW, 1/2" IN WATER	Ø638	-	"
CLOSED FOR INITIAL SHUT-IN	Ø638	-	"
FINISHED SHUT-IN	Ø7Ø8	-	"
RE-OPENED TOOL	Ø71Ø	-	"
VERY WEAK BLOW, 6 BUBBLES & DIED			
CLOSED FOR FINAL SHUT-IN	Ø84Ø	-	"
FINISHED SHUT-IN	1Ø1Ø	-	"
PULLED PACKER LOOSE	1Ø12	-	-

CUSHION TYPE: - - FT - PSIG | 15/16 IN. BOTTOM CHOKE

RECOVERY INFORMATION

RECOVERY	FEET	BARRELS	%OIL	%WATER	%OTHERS	API GRAV.	DEG.	RESIST	DEG.	CHL PPM
DRILLING MUD	3Ø	-	-	-	-	-	-	2.Ø	68	4ØØØ

FIELD REPORT NO. 16Ø71D

FIELD REPORT NO.: 16071 D

CAPACITY: 6400#

INSTRUMENT NO.: J-073

NUMBER OF REPORTS: 10+

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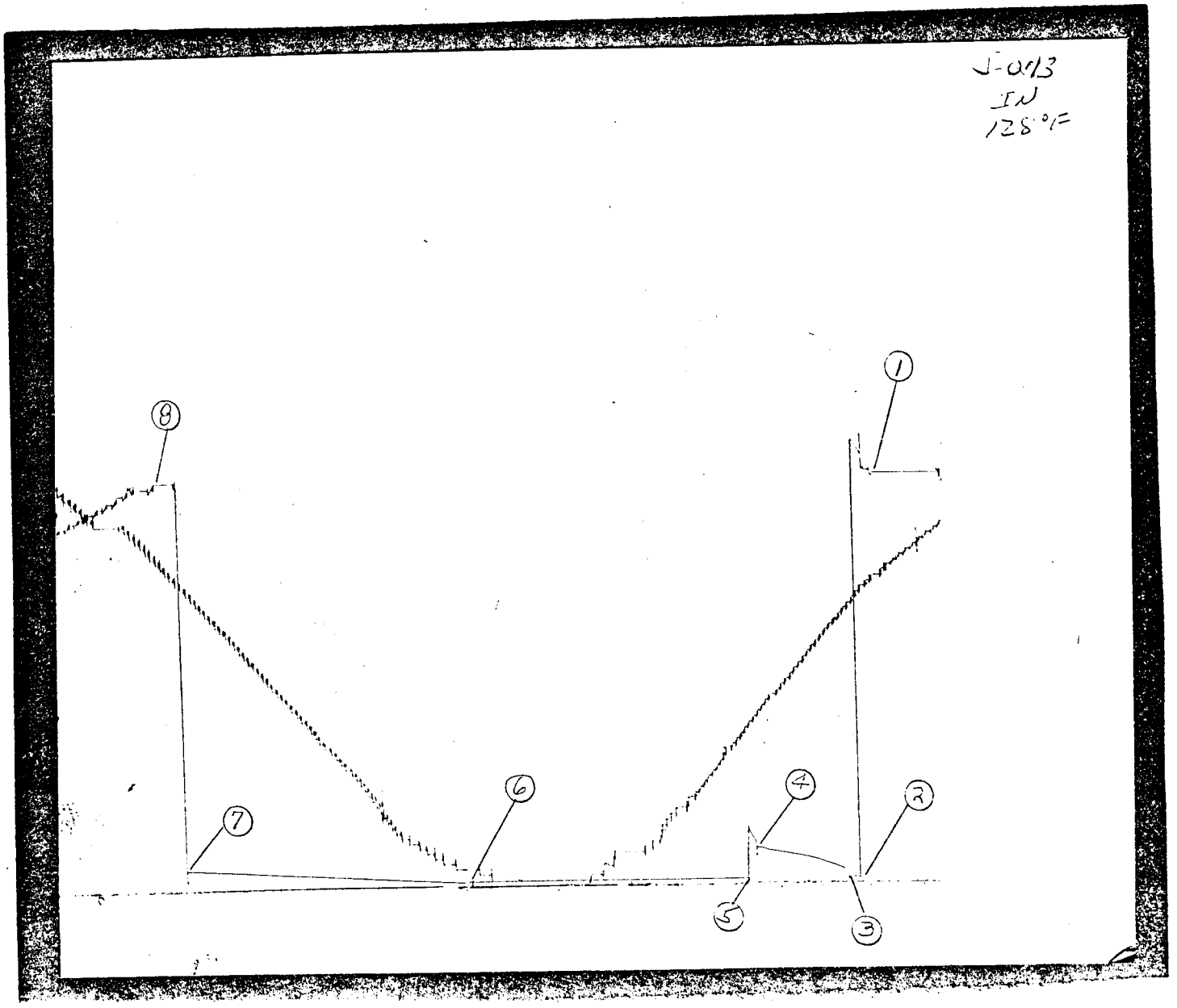

BOTTOM HOLE PRESSURE AND TIME DATA

INSTRUMENT NO.: J-Ø73 CAPACITY (PSI): 64ØØ DEPTH (FT): 715Ø
PORT OPENING: INSIDE BOTTOM HOLE TEMP (F): 128

EXPLANATION	LABELED POINT	PRESSURE (PSIG)	ELAPSED TIME (MIN)
HYDROSTATIC MUD	1	339Ø	-6.2
START FLOW	2	5Ø	Ø.Ø
END FLOW & START SHUT-IN	3	52	3.6
END SHUT-IN	4	3Ø8	33.1
START FLOW	5	53	35.8
END FLOW & START SHUT-IN	6	59	124.8
END SHUT-IN	7	179	214.3
HYDROSTATIC MUD	8	3388	223.2

SUMMARY OF FLOW PERIODS

FLOW PERIOD	ELAPSED TIME AT START (MIN)	ELAPSED TIME AT END (MIN)	DURATION OF FLOW (MIN)	PRESSURE AT START (PSIG)	PRESSURE AT END (PSIG)
1	Ø.Ø	3.6	3.6	5Ø	52
2	35.8	124.8	89.Ø	53	59

SUMMARY OF SHUT-IN PERIODS

SHUT-IN PERIOD	ELAPSED TIME AT START (MIN)	ELAPSED TIME AT END (MIN)	DURATION OF SHUT-IN (MIN)	PRESSURE AT START (PSIG)	PRESSURE AT END (PSIG)	FINAL FLOW PRESSURE (PSIG)	PRODUCING TIME (MIN)
1	3.6	33.1	29.5	52	3Ø8	52	3.6
2	124.8	214.3	89.5	59	179	59	92.6

FIELD REPORT NO.: 16071 D

CAPACITY: 6400#

INSTRUMENT NO.: J-292

NUMBER OF REPORTS: 10+

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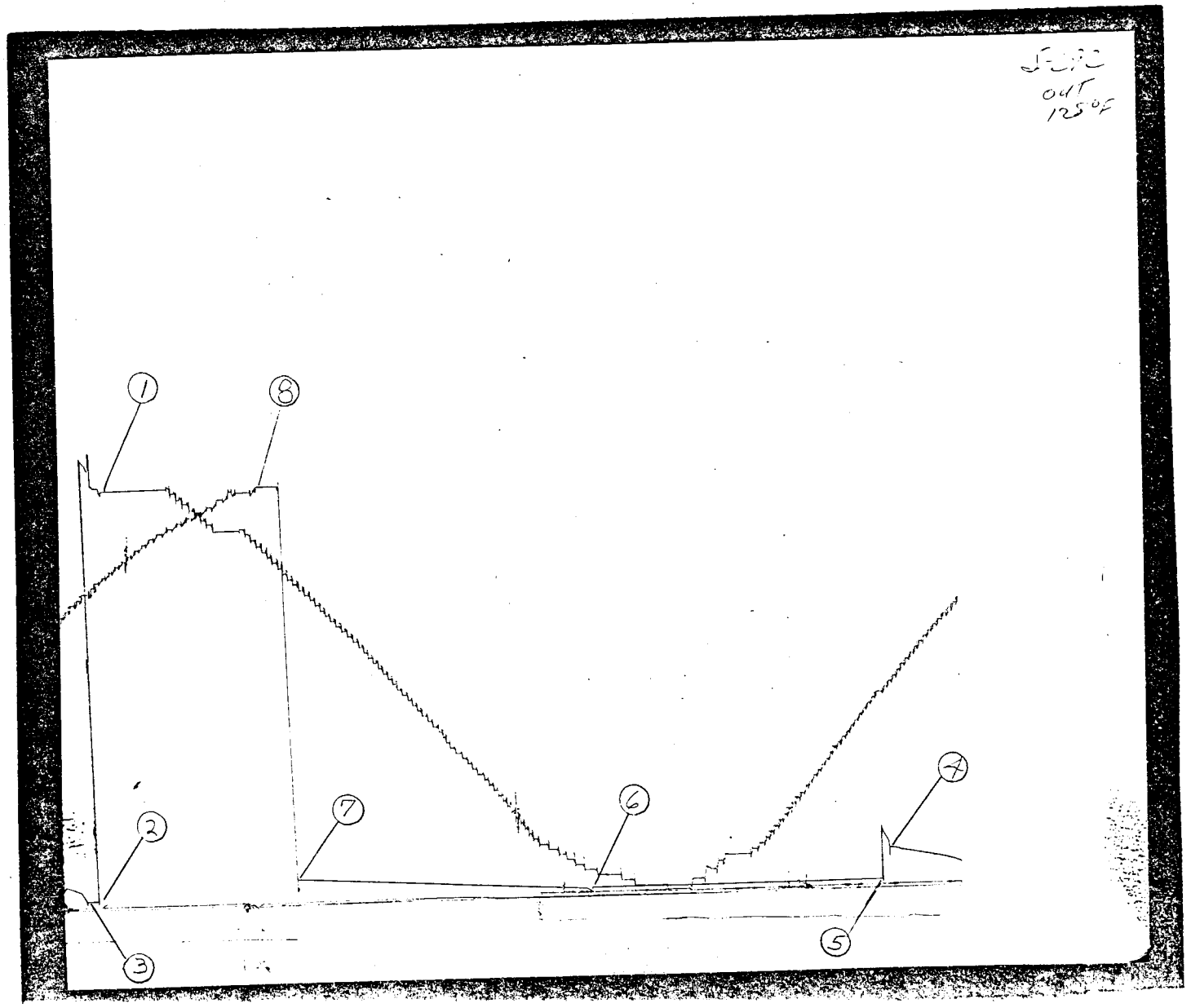
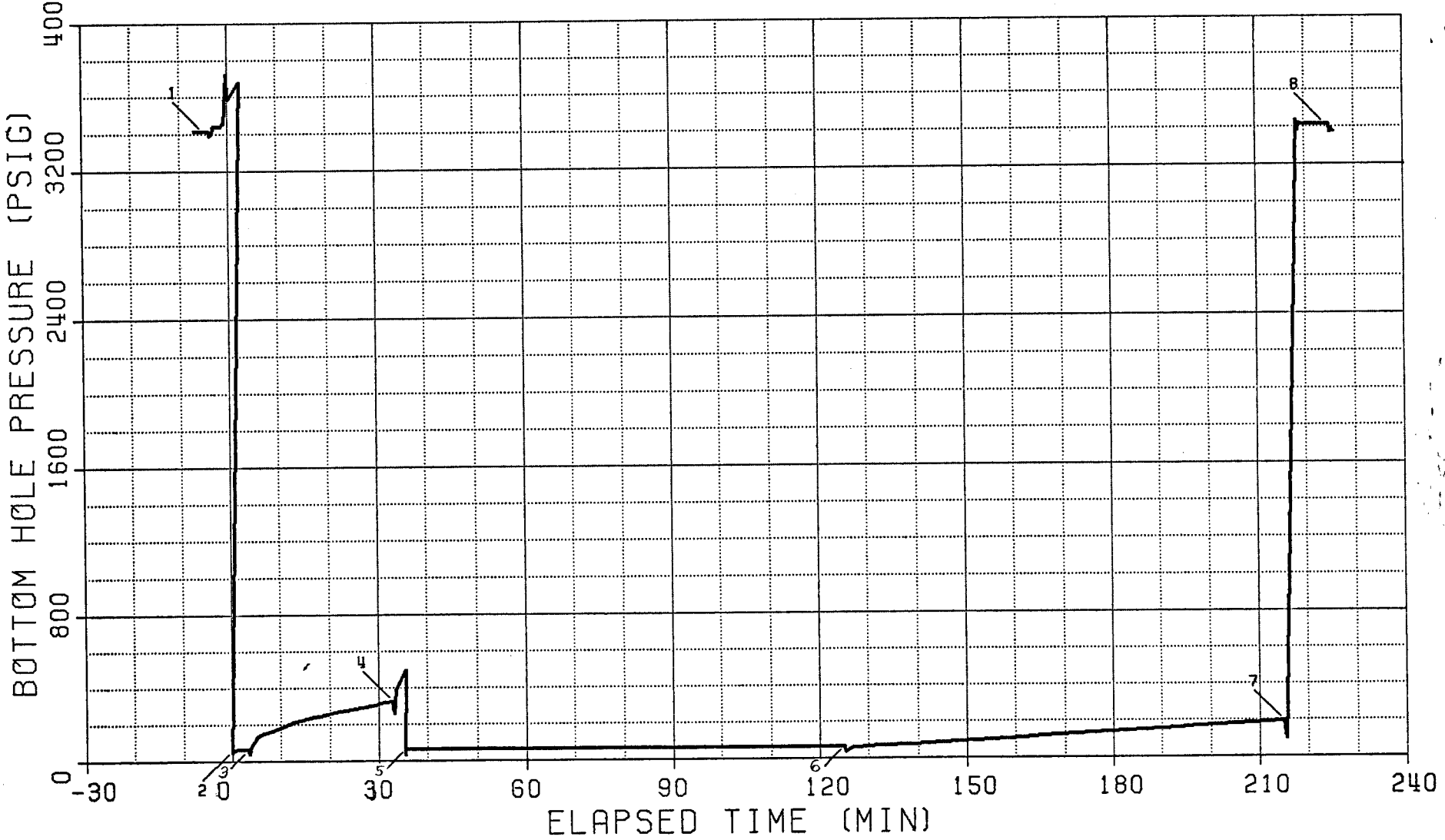


PRESSURE LOG

FIELD REPORT NO. 16071D

INSTRUMENT:

NUMBER: J-292
CAPACITY: 6400 PSI
DEPTH: 7156 FT
PORT OPENING: OUTSIDE



BOTTOM HOLE PRESSURE AND TIME DATA

INSTRUMENT NO.: J-292 CAPACITY (PSI): 6400 DEPTH (FT): 7156
PORT OPENING: OUTSIDE BOTTOM HOLE TEMP (F): 128

EXPLANATION	LABELED POINT	PRESSURE (PSIG)	ELAPSED TIME (MIN)
HYDROSTATIC MUD	1	3413	-4.9
START FLOW	2	62	0.0
END FLOW & START SHUT-IN	3	64	3.4
END SHUT-IN	4	326	32.9
START FLOW	5	66	35.5
END FLOW & START SHUT-IN	6	67	125.0
END SHUT-IN	7	193	214.9
HYDROSTATIC MUD	8	3413	224.4

SUMMARY OF FLOW PERIODS

FLOW PERIOD	ELAPSED TIME AT START (MIN)	ELAPSED TIME AT END (MIN)	DURATION OF FLOW (MIN)	PRESSURE AT START (PSIG)	PRESSURE AT END (PSIG)
1	0.0	3.4	3.3	62	64
2	35.5	125.0	89.6	66	67

SUMMARY OF SHUT-IN PERIODS

SHUT-IN PERIOD	ELAPSED TIME AT START (MIN)	ELAPSED TIME AT END (MIN)	DURATION OF SHUT-IN (MIN)	PRESSURE AT START (PSIG)	PRESSURE AT END (PSIG)	FINAL FLOW PRESSURE (PSIG)	PRODUCING TIME (MIN)
1	3.4	32.9	29.5	64	326	64	3.3
2	125.0	214.9	89.9	67	193	67	92.9

FIELD REPORT NO. 16071D
INSTRUMENT NO. J-292

TEST PHASE : FLOW PERIOD # 1
****

ELAPSED TIME (MIN)	DELTA TIME (MIN)	FLOWING PRESSURE (PSIG)
0.0	0.0	62
3.4	3.3	64

TEST PHASE : SHUT-IN PERIOD # 1
****

1. FINAL FLOW PRESSURE ["P_{WF}"] = 64 PSIG
2. PRODUCING TIME ["T_P"] = 3.3 MIN

ELAPSED TIME (MIN)	DELTA TIME ["DT"] (MIN)	SHUT-IN PRESSURE ["P_{WS}"] (PSIG)	LOG [(T_P+DT)/DT]	DELTA PRESSURE [P_{WS} - P_{WF}]
3.4	0.0	64		0
4.4	1.0	96	0.635	33
5.4	2.0	136	0.425	72
6.4	3.0	149	0.324	85
7.4	4.0	159	0.262	96
8.4	5.0	169	0.221	105
9.4	6.0	179	0.191	115
10.4	7.0	189	0.169	125
11.4	8.0	199	0.151	135
12.4	9.0	209	0.136	145
13.4	10.0	217	0.125	153
15.4	12.0	231	0.106	167
17.4	14.0	244	0.092	180
19.4	16.0	255	0.082	191
21.4	18.0	266	0.074	202
23.4	20.0	276	0.067	212
25.4	22.0	286	0.061	222
27.4	24.0	296	0.056	232
29.4	26.0	304	0.052	241
31.4	28.0	319	0.049	256
32.9	29.5	326	0.046	263

FIELD REPORT NO. 16071D
INSTRUMENT NO. J-292

TEST PHASE : FLOW PERIOD # 2

ELAPSED TIME (MIN)	DELTA TIME (MIN)	FLOWING PRESSURE (PSIG)
35.5	0.0	66
40.5	5.0	66
45.5	10.0	66
50.5	15.0	66
55.5	20.0	66
60.5	25.0	66
65.5	30.0	65
70.5	35.0	65
75.5	40.0	65
80.5	45.0	65
85.5	50.0	65
90.5	55.0	65
95.5	60.0	65
100.5	65.0	65
105.5	70.0	65
110.5	75.0	66
115.5	80.0	66
120.5	85.0	66
125.0	89.6	67

TEST PHASE : SHUT-IN PERIOD # 2

1. FINAL FLOW PRESSURE ["P_{WF}"] = 67 PSIG
2. PRODUCING TIME ["T_P"] = 92.9 MIN

ELAPSED TIME (MIN)	DELTA TIME ["DT"] (MIN)	SHUT-IN PRESSURE ["P_{WS}"] (PSIG)	LOG [(T_P+DT)/DT]	DELTA PRESSURE [P_{WS} - P_{WF}]
125.0	0.0	67		0
126.0	1.0	49	1.973	-18
127.0	2.0	60	1.676	-7
128.0	3.0	62	1.505	-5
129.0	4.0	63	1.384	-4
130.0	5.0	64	1.292	-3
131.0	6.0	66	1.217	-1
132.0	7.0	67	1.154	0
133.0	8.0	69	1.101	2
134.0	9.0	70	1.054	3
135.0	10.0	72	1.012	5
137.0	12.0	74	0.942	7
139.0	14.0	77	0.883	10
141.0	16.0	80	0.833	13
143.0	18.0	83	0.790	16

FIELD REPORT NO. 16071D
INSTRUMENT NO. J-292

TEST PHASE : SHUT-IN PERIOD # 2
****

1. FINAL FLOW PRESSURE ["P_{WF}"] = 67 PSIG

2. PRODUCING TIME ["T_P"] = 92.9 MIN

ELAPSED TIME (MIN)	DELTA TIME ["DT"] (MIN)	SHUT-IN PRESSURE ["P_{WS}"] (PSIG)	LOG [(T_P+DT)/DT]	DELTA PRESSURE [P_{WS} - P_{WF}]
145.0	20.0	86	0.752	19
147.0	22.0	89	0.718	22
149.0	24.0	92	0.688	25
151.0	26.0	95	0.660	28
153.0	28.0	98	0.635	31
155.0	30.0	101	0.612	34
160.0	35.0	109	0.563	42
165.0	40.0	117	0.521	50
170.0	45.0	124	0.486	57
175.0	50.0	133	0.456	66
180.0	55.0	141	0.430	74
185.0	60.0	149	0.406	82
190.0	65.0	157	0.385	90
195.0	70.0	164	0.367	97
200.0	75.0	172	0.350	105
205.0	80.0	179	0.335	112
210.0	85.0	187	0.321	120
214.9	89.9	193	0.308	126

JS—165

RECEIVED
OCT 11 1979
DIVISION OF OIL
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JOHNSTON

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computerized data analysis

COMPANY THE ANSCHUTZ CORPORATION

WELL ANSCHUTZ RANCH #33-1

TEST NO. 3

COUNTY SUMMIT

STATE UTAH

F.R. # 16112 D

JS-166

JOHNSTON
Schlumberger

COMPUTERIZED DATA ANALYSIS

OCTOBER 8, 1979

GENTLEMEN:

THE ENCLOSED TEST APPEARS TO BE A GOOD MECHANICAL DRILL STEM TEST DURING WHICH THE TOOLS DID FUNCTION PROPERLY. THE FORMATION DID NOT PRODUCE ENOUGH RESERVOIR FLUID FOR PROPER IDENTIFICATION. RESERVOIR PRESSURE DRAWDOWN WAS SUFFICIENT BUT ADEQUATE SHUT-IN BUILD-UPS DID NOT OCCUR FOR RELIABLE QUANTITATIVE ANALYSIS. AFTERFLOW WAS STILL IN EFFECT ON THE INITIAL AND FINAL SHUT-IN BUILD-UPS TO THE EXTENT THAT THE PLOTS ARE CONSIDERED UNRELIABLE FOR ANALYSIS.

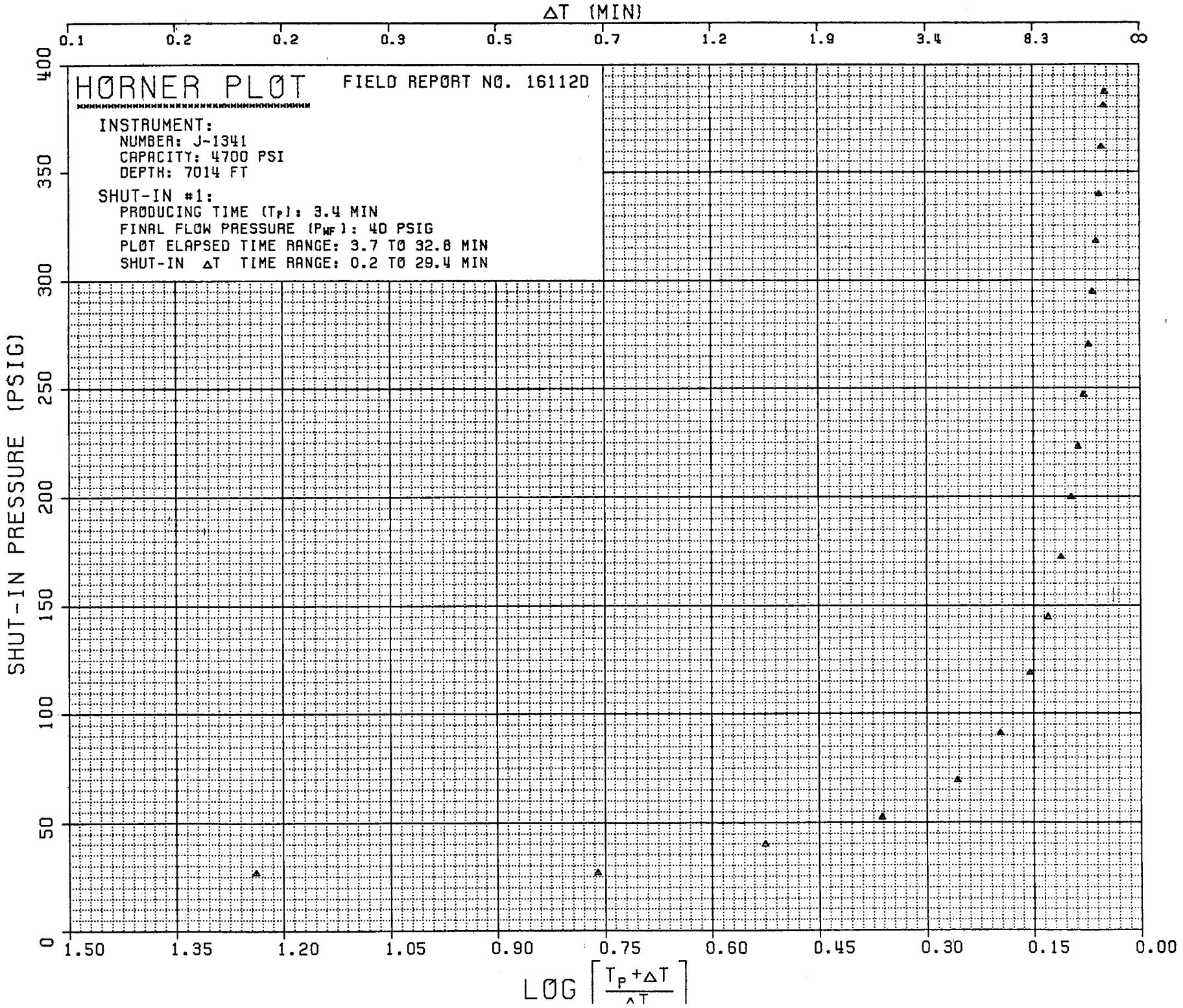
FROM THE CONTOUR OF THE SHUT-IN PRESSURE BUILD-UP CURVES AND THE AMOUNT OF MUD PRODUCED, A LOW PERMEABILITY FORMATION IS INDICATED. NO CALCULATIONS CAN BE PERFORMED ON THIS TEST DATA.

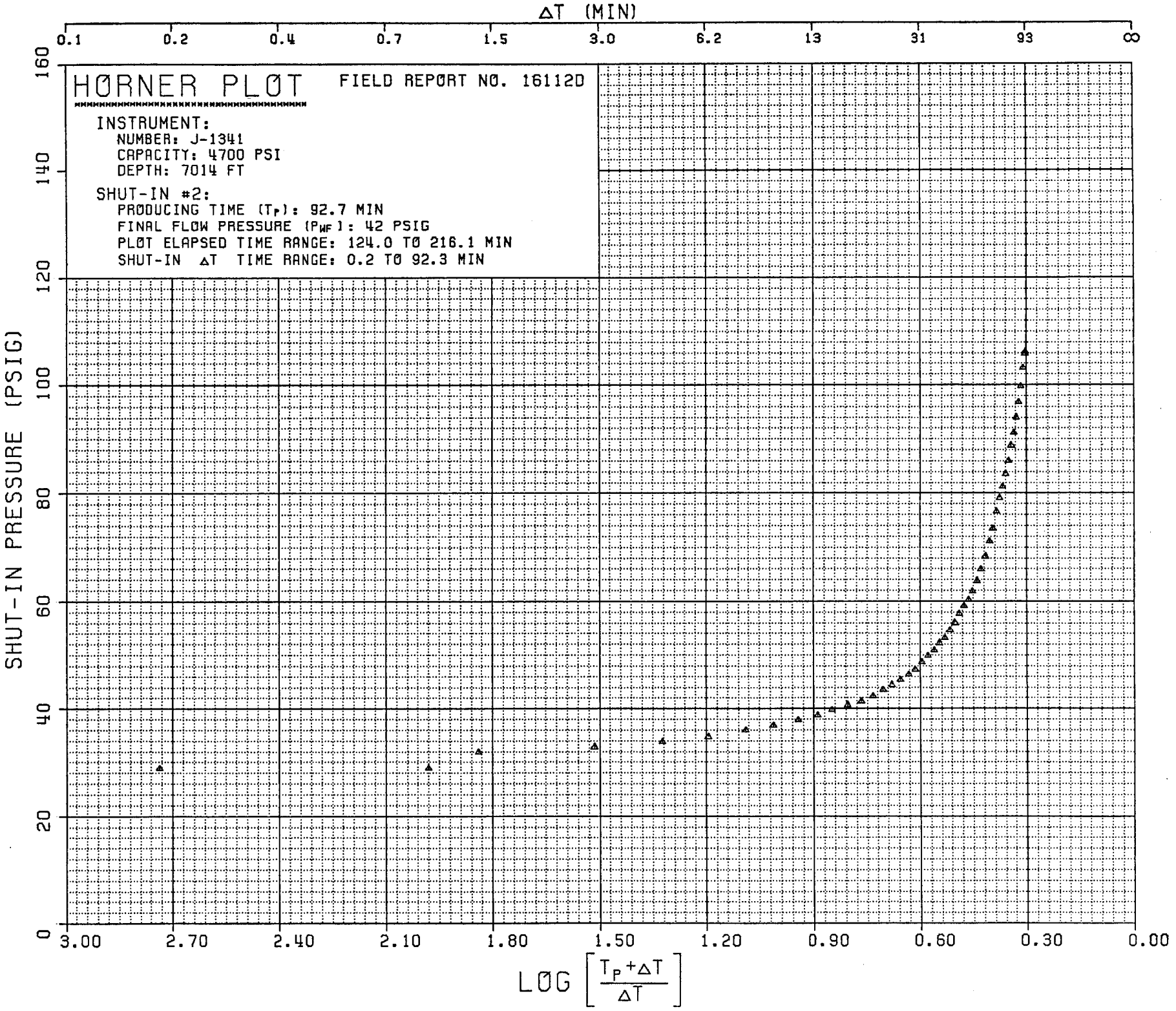
Stephen Gardner

STEPHEN GARDNER
RESERVOIR EVALUATION
DEPARTMENT

THE ANSCHUTZ CORPORATION
ANSCHUTZ RANCH #33-1; SUMMIT COUNTY, UTAH
TEST #3; 7901' TO 8001'
LOCATION: SEC. 33 - T4N - R7E
FIELD REPORT # 16112 D

In making any interpretation, our employees will give Customer the benefit of their best judgment as to the correct interpretation. Nevertheless, since all interpretations are opinions based on inferences from electrical, mechanical or other measurements, we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not be liable or responsible, except in the case of gross or wilful negligence on our part, for any loss, costs, damages or expenses incurred or sustained by Customer resulting from any interpretation


HØRNER PLØT
FIELD REPØRT NØ. 161120
INSTRUMENT:
NUMBER: J-1341
CAPACITY: 4700 PSI
DEPTH: 7014 FT
SHUT-IN #1:
PRODUCING TIME (T_P): 3.4 MIN
FINAL FLOW PRESSURE (P_{WF}): 40 PSIG
PLØT ELAPSED TIME RANGE: 3.7 TØ 32.8 MIN
SHUT-IN ΔT TIME RANGE: 0.2 TØ 29.4 MIN
ΔT (MIN)
0.1
0.2
0.2
0.3
0.5
0.7
1.2
1.9
3.4
8.3
∞
SHUT-IN PRESSURE (PSIG)
0
50
100
150
200
250
300
350
400
1.50
1.35
1.20
1.05
0.90
0.75
0.60
0.45
0.30
0.15
0.00
LØG $\left[\frac{T_P+\Delta T}{\Delta T}\right]$


HØRNER PLØT
FIELD REPØRT NØ. 16112D
INSTRUMENT:
NUMBER: J-1341
CAPACITY: 4700 PSI
DEPTH: 7014 FT
SHUT-IN #2:
PRØDUCING TIME (T_P): 92.7 MIN
FINAL FLØW PRESSURE (P_{WF}): 42 PSIG
PLØT ELAPSED TIME RANGE: 124.0 TØ 216.1 MIN
SHUT-IN ΔT TIME RANGE: 0.2 TØ 92.3 MIN
ΔT (MIN)
0.1
0.2
0.4
0.7
1.5
3.0
6.2
13
31
93
∞
SHUT-IN PRESSURE (PSIG)
0
20
40
60
80
100
120
140
160
3.00
2.70
2.40
2.10
1.80
1.50
1.20
0.90
0.60
0.30
0.00
LØG $\left[\frac{T_P+\Delta T}{\Delta T}\right]$

FIELD REPORT NO. 16112D

INSTRUMENT:

NUMBER: J-1341

CAPACITY: 4700 PSI

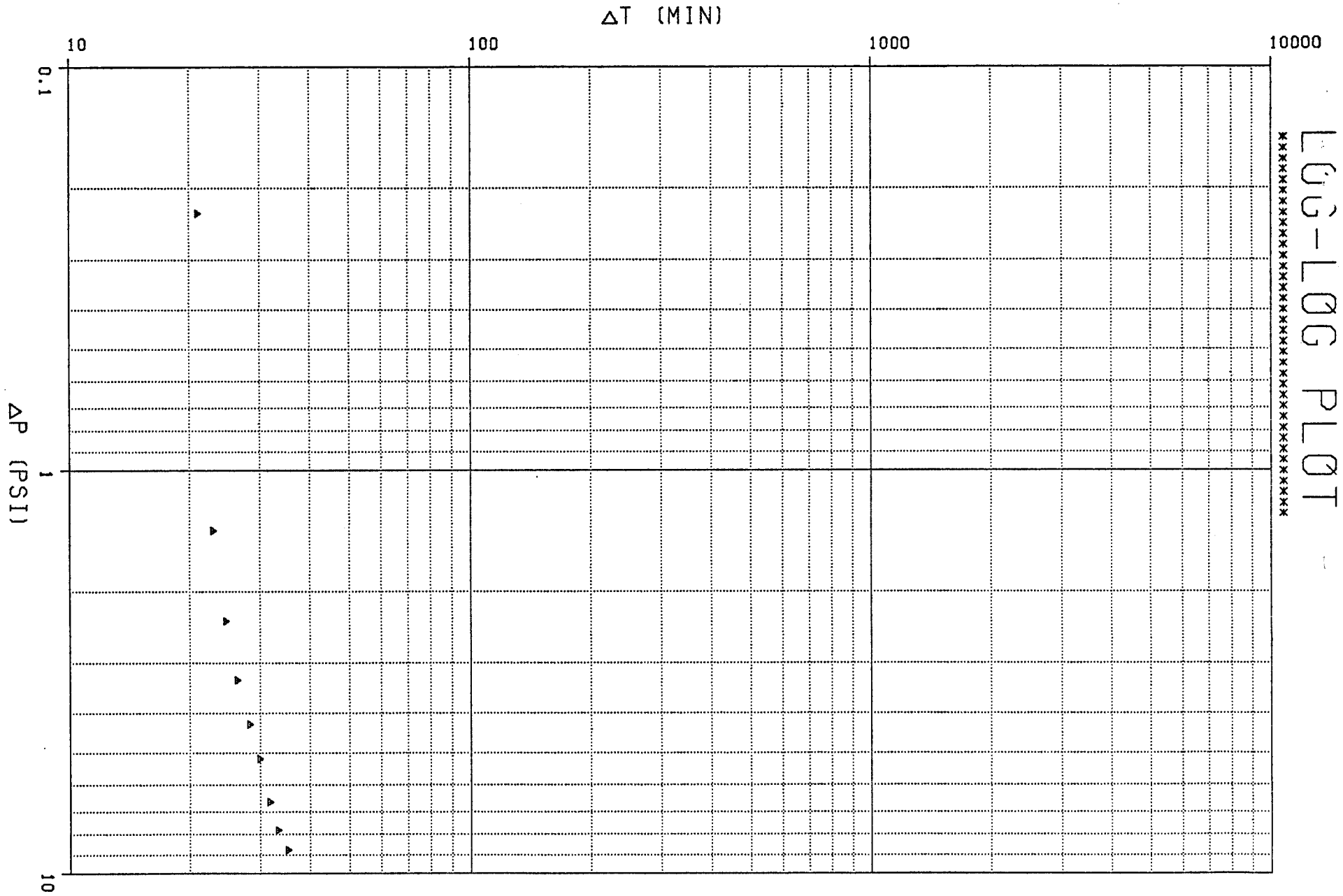
DEPTH: 7014 FT

SHUT-IN #2:

FINAL FLOW PRESSURE (P_{WF}): 42 PSIG

PLOT ELAPSED TIME RANGE: 144.8 TO 159.0 MIN

SHUT-IN ΔT TIME RANGE: 20.9 TO 35.1 MIN



FIELD REPORT NO. 16112D

INSTRUMENT:

NUMBER: J-1341

CAPACITY: 4700 PSI

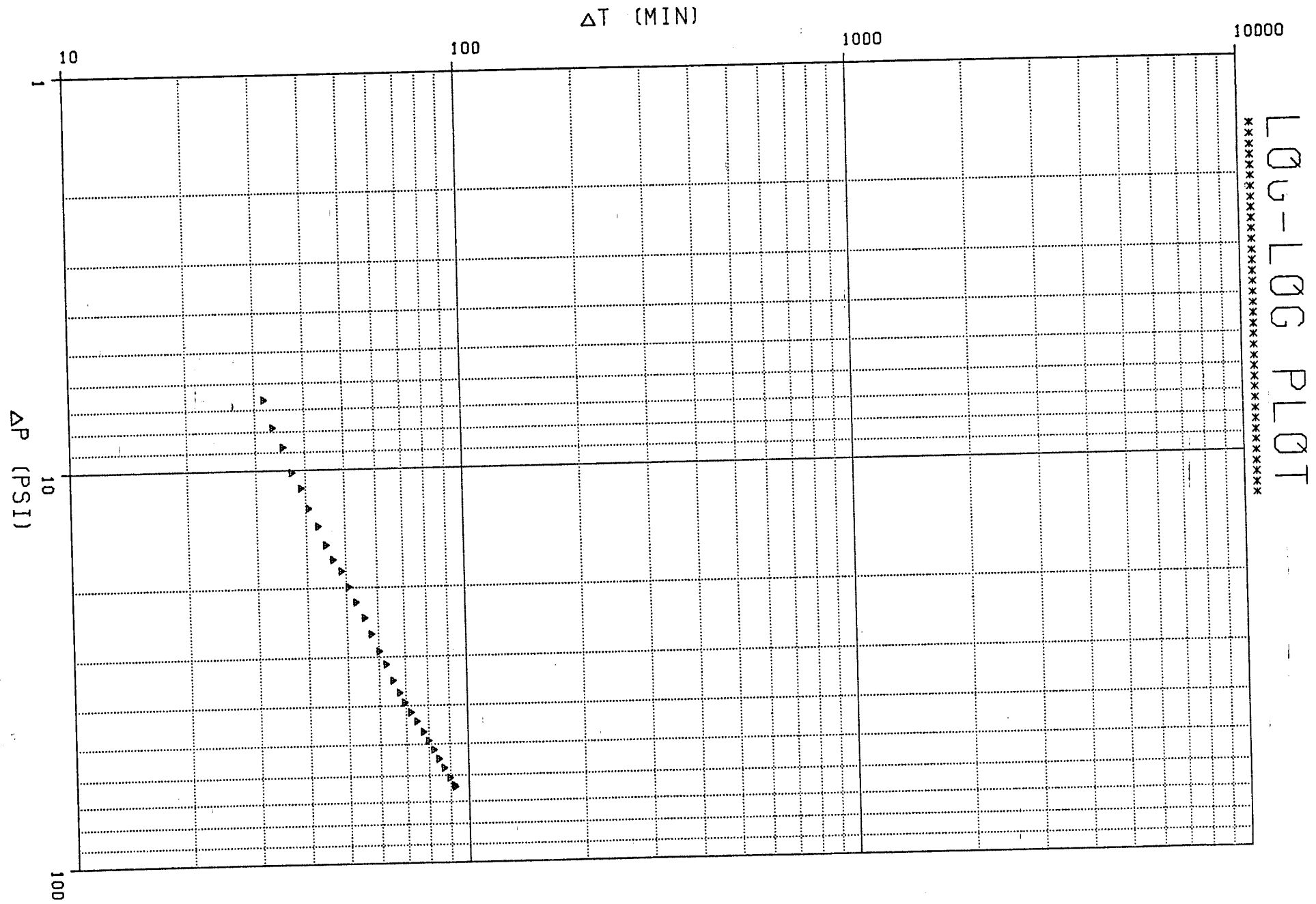
DEPTH: 7014 FT

SHUT-IN #2:

FINAL FLOW PRESSURE (P_{WF}): 42 PSIG

PLOT ELAPSED TIME RANGE: 155.5 TO 216.1 MIN

SHUT-IN ΔT TIME RANGE: 31.6 TO 92.3 MIN



WELL IDENTIFICATION

COMPANY:	THE ANSCHUTZ CORPORATION		2100 ANACONDA TOWER 555-17TH STREET DENVER, COLORADO 80202
WELL:	ANSCHUTZ RANCH #33-1	LOCATION:	SEC. 33 - T4N - R7E
TEST INTERVAL:	7901' TO 8001'	FIELD:	WILD CAT
TEST NO:	3	TEST DATE:	9-22-79
COUNTY:	SUMMIT	STATE:	UTAH
TECHNICIAN:	GREENFIELD (ROCK SPRINGS)	TEST APPROVED BY:	-

EQUIPMENT AND HOLE DATA

TEST TYPE:	M.F.E. OPEN HOLE		DRILL PIPE LENGTH:	7369	FT.
			DRILL PIPE I.D.:	-	IN.
ELEVATION:	7345 K.B.	FT.	DRILL COLLAR LENGTH:	493	FT.
TOTAL DEPTH:	8001	FT.	DRILL COLLAR I.D.:	2.25	IN.
MAIN HOLE/CASING SIZE:	8 3/4	IN.	PACKER DEPTHS:	7895 & 7901	FT.
RAT HOLE/LINER SIZE:	-	IN.		&	FT.
FORMATION TESTED:	TWIN CREEK			&	FT.
NET PROD. INTERVAL:	1.5	FT.	DEPTHS REF. TO:	KELLY BUSHING	
POROSITY:	-	%			

TEST TOOL CHAMBER DATA

SAMPLER PRESSURE:	15	PSIG
RECOVERED OIL GRAVITY:	- API @	- DEG. F.
RECOVERY GOR:	-	FT3/BBL.

SAMPLE CHAMBER CONTENTS

FLUID	VOLUME	RESIST. (OHM-M)	MEAS. TEMP. (DEG F.)	CHLOR. (PPM)
GAS:	- FT.3			
OIL:	- CC			
WATER:	- CC	-	-	-
MUD:	15 CC	1.8	70	
FILTRATE:		1.6	70	3000
TOTAL LIQUID:	15 CC			

MUD DATA

TYPE:	LSND	
WEIGHT:	8.9	LB/GAL.
VISCOSITY:	45-50	SEC.
WATER LOSS:	8	CC

FLUID	RESIST (OHM-M)	TEMP (DEG F)	CHLOR (PPM)
MUD:	2.2	70	
FILTRATE:	1.8	70	3000

REMARKS

MUD LOSS 2' DURING TEST.
-

NO. OF REPORTS REQUESTED: 10 (5X)

FIELD REPORT NO. 16112D

SURFACE INFORMATION

DESCRIPTION(RATE OF FLOW)	TIME	PRESSURE PSIG	SURFACE CHOKE
OPENED TOOL	Ø345	-	1/8"
VERY SLIGHT BLOW, 1/4" IN WATER			
CLOSED FOR INITIAL SHUT-IN	Ø349	-	"
BLOW DIED	Ø351	-	"
FINISHED SHUT-IN	Ø418	-	"
RE-OPENED TOOL	Ø42Ø	-	"
NO BLOW			
CLOSED FOR FINAL SHUT-IN	Ø551	-	"
PULLED PACKER LOOSE	Ø721	-	"

CUSHION TYPE: - - FT - PSIG | 15/16 IN. BOTTOM CHOKE

RECOVERY INFORMATION

RECOVERY	FEET	BARRELS	%OIL	%WATER	%OTHERS	API GRAV.	DEG.	RESIST	DEG.	CHL PPM
DRILLING MUD	15	Ø.Ø7	-	-	-	-	-	1.8	7Ø	4ØØØ

FIELD REPORT NO. 16112D

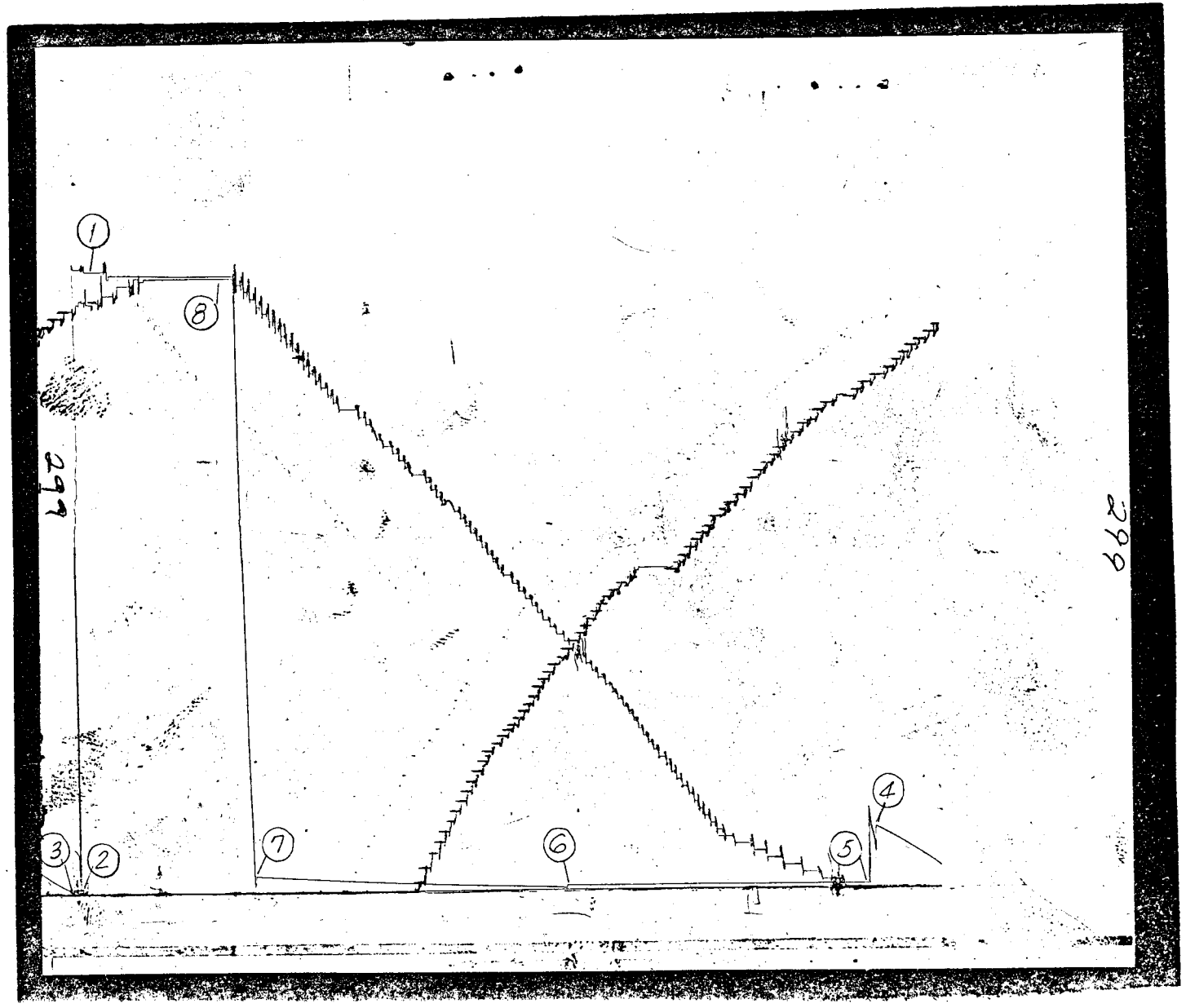
FIELD REPORT NO.: 16112 D

CAPACITY: 4700#

INSTRUMENT NO.: J-299

NUMBER OF REPORTS: 10+

JOHNSTON
Schlumberger



BOTTOM HOLE PRESSURE AND TIME DATA

INSTRUMENT NO.: J-299 CAPACITY (PSI): 4700 DEPTH (FT): 7008
PORT OPENING: INSIDE BOTTOM HOLE TEMP (F): 138

EXPLANATION	LABELED POINT	PRESSURE (PSIG)	ELAPSED TIME (MIN)
HYDROSTATIC MUD	1	3740	-3.1
START FLOW	2	31	0.0
END FLOW & START SHUT-IN	3	32	2.5
END SHUT-IN	4	374	31.6
START FLOW	5	32	33.3
END FLOW & START SHUT-IN	6	32	123.7
END SHUT-IN	7	101	216.0
HYDROSTATIC MUD	8	3693	225.2

SUMMARY OF FLOW PERIODS

FLOW PERIOD	ELAPSED TIME AT START (MIN)	ELAPSED TIME AT END (MIN)	DURATION OF FLOW (MIN)	PRESSURE AT START (PSIG)	PRESSURE AT END (PSIG)
1	0.0	2.5	2.5	31	32
2	33.3	123.7	90.4	32	32

SUMMARY OF SHUT-IN PERIODS

SHUT-IN PERIOD	ELAPSED TIME AT START (MIN)	ELAPSED TIME AT END (MIN)	DURATION OF SHUT-IN (MIN)	PRESSURE AT START (PSIG)	PRESSURE AT END (PSIG)	FINAL FLOW PRESSURE (PSIG)	PRODUCING TIME (MIN)
1	2.5	31.6	29.1	32	374	32	2.5
2	123.7	216.0	92.3	32	101	32	92.8

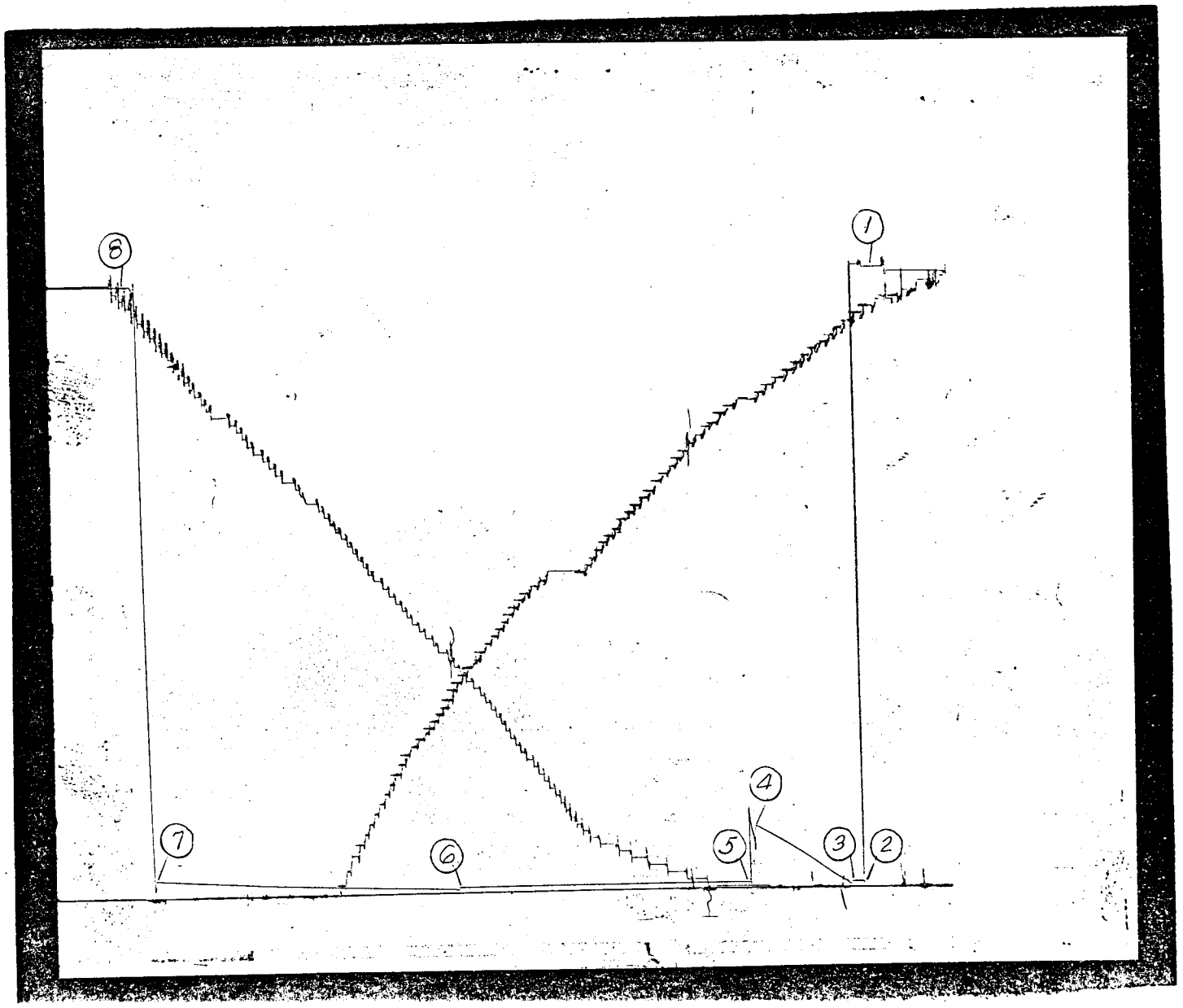
FIELD REPORT NO.: 16112 D

CAPACITY: 4700#

INSTRUMENT NO.: J-1341

NUMBER OF REPORTS: 10+

JOHNSTON
Schlumberger



PRESSURE LOG

FIELD REPORT NO. 16112D

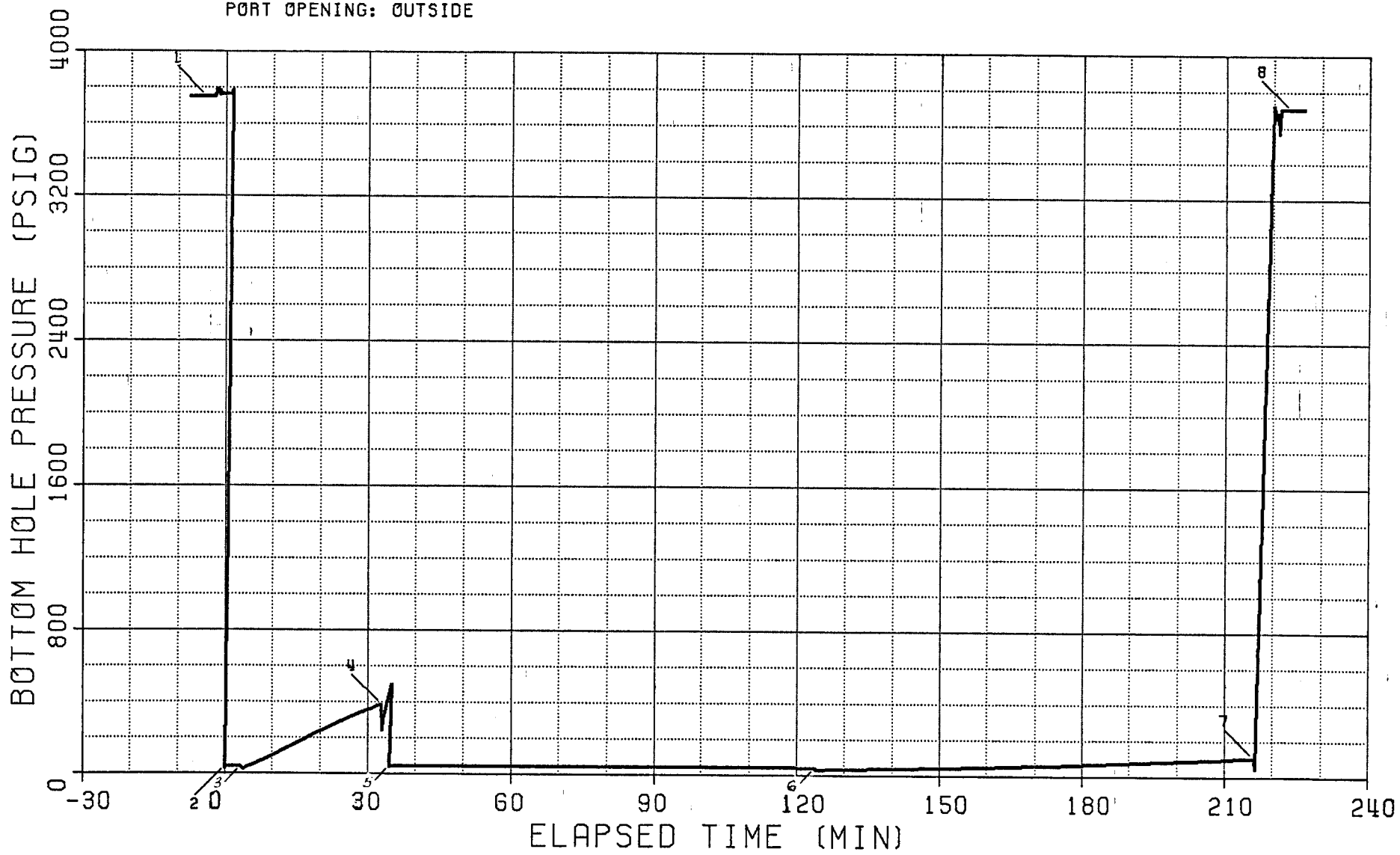
INSTRUMENT:

NUMBER: J-1341

CAPACITY: 4700 PSI

DEPTH: 7014 FT

PORT OPENING: OUTSIDE



BOTTOM HOLE PRESSURE AND TIME DATA

INSTRUMENT NO.: J-1341 CAPACITY (PSI): 4700 DEPTH (FT): 7014
PORT OPENING: OUTSIDE BOTTOM HOLE TEMP (F): 138 PAGE 1

EXPLANATION	LABELED POINT	PRESSURE (PSIG)	ELAPSED TIME (MIN)
HYDROSTATIC MUD	1	3749	-4.2
START FLOW	2	40	0.0
END FLOW & START SHUT-IN	3	40	3.5
END SHUT-IN	4	387	32.8
START FLOW	5	45	34.6
END FLOW & START SHUT-IN	6	42	123.8
END SHUT-IN	7	106	216.1
HYDROSTATIC MUD	8	3703	223.6

SUMMARY OF FLOW PERIODS

FLOW PERIOD	ELAPSED TIME AT START (MIN)	ELAPSED TIME AT END (MIN)	DURATION OF FLOW (MIN)	PRESSURE AT START (PSIG)	PRESSURE AT END (PSIG)
1	0.0	3.5	3.4	40	40
2	34.6	123.8	89.3	45	42

SUMMARY OF SHUT-IN PERIODS

SHUT-IN PERIOD	ELAPSED TIME AT START (MIN)	ELAPSED TIME AT END (MIN)	DURATION OF SHUT-IN (MIN)	PRESSURE AT START (PSIG)	PRESSURE AT END (PSIG)	FINAL FLOW PRESSURE (PSIG)	PRODUCING TIME (MIN)
1	3.5	32.8	29.4	40	387	40	3.4
2	123.8	216.1	92.3	42	106	42	92.7

FIELD REPORT NO. 16112D
INSTRUMENT NO. J-1341

TEST PHASE : FLOW PERIOD # 1
****

ELAPSED TIME (MIN)	DELTA TIME (MIN)	FLOWING PRESSURE (PSIG)
Ø.Ø	Ø.Ø	4Ø
3.5	3.4	4Ø

TEST PHASE : SHUT-IN PERIOD # 1
****

1. FINAL FLOW PRESSURE ["P_{WF}"] = 4Ø PSIG
2. PRODUCING TIME ["T_P"] = 3.4 MIN

ELAPSED TIME (MIN)	DELTA TIME ["DT"] (MIN)	SHUT-IN PRESSURE ["P_{WS}"] (PSIG)	LOG [(T_P+DT)/DT]	DELTA PRESSURE [P_{WS} - P_{WF}]
3.5	Ø.Ø	4Ø		Ø
4.5	1.Ø	32	Ø.646	-9
5.5	2.Ø	46	Ø.434	5
6.5	3.Ø	56	Ø.331	16
7.5	4.Ø	67	Ø.269	27
8.4	5.Ø	79	Ø.227	39
9.4	6.Ø	91	Ø.196	51
1Ø.4	7.Ø	1Ø5	Ø.173	65
11.4	8.Ø	119	Ø.155	79
12.4	9.Ø	133	Ø.14Ø	92
13.4	1Ø.Ø	147	Ø.128	1Ø6
15.4	12.Ø	175	Ø.1Ø9	135
17.5	14.Ø	2Ø3	Ø.Ø95	162
19.5	16.Ø	229	Ø.Ø84	189
21.5	18.Ø	255	Ø.Ø76	215
23.5	2Ø.Ø	28Ø	Ø.Ø69	24Ø
25.5	22.Ø	3Ø4	Ø.Ø63	264
27.5	24.Ø	328	Ø.Ø58	288
29.5	26.Ø	352	Ø.Ø54	311
31.5	28.Ø	374	Ø.Ø5Ø	334
32.8	29.4	387	Ø.Ø48	347

FIELD REPORT NO. 16112D
INSTRUMENT NO. J-1341

TEST PHASE : FLOW PERIOD # 2
****

ELAPSED TIME (MIN)	DELTA TIME (MIN)	FLOWING PRESSURE (PSIG)
34.6	0.0	45
39.6	5.0	46
44.6	10.0	46
49.6	15.0	46
54.6	20.0	46
59.6	25.0	47
64.6	30.0	47
69.6	35.0	46
74.6	40.0	46
79.6	45.0	46
84.6	50.0	46
89.6	55.0	46
94.6	60.0	46
99.6	65.0	46
104.6	70.0	45
109.6	75.0	44
114.6	80.0	43
119.6	85.0	42
123.8	89.3	42

TEST PHASE : SHUT-IN PERIOD # 2
****

1. FINAL FLOW PRESSURE ["P_{WF}"] = 42 PSIG
2. PRODUCING TIME ["T_P"] = 92.7 MIN

ELAPSED TIME (MIN)	DELTA TIME ["DT"] (MIN)	SHUT-IN PRESSURE ["P_{WS}"] (PSIG)	LOG [(T_P+DT)/DT]	DELTA PRESSURE [P_{WS} - P_{WF}]
123.8	0.0	42		0
124.8	1.0	29	1.972	-13
125.8	2.0	32	1.675	-10
126.8	3.0	33	1.504	-9
127.8	4.0	33	1.383	-9
128.9	5.0	34	1.291	-8
129.9	6.0	35	1.216	-8
130.9	7.0	35	1.154	-7
131.9	8.0	36	1.100	-6
132.9	9.0	36	1.053	-6
133.9	10.0	37	1.012	-5
135.9	12.0	38	0.941	-4
137.9	14.0	39	0.882	-3
139.9	16.0	40	0.832	-2
141.9	18.0	41	0.789	-1

FIELD REPORT NO. 16112D
INSTRUMENT NO. J-1341

TEST PHASE : SHUT-IN PERIOD # 2
****

1. FINAL FLOW PRESSURE ["P_{WF}"] = 42 PSIG
2. PRODUCING TIME ["T_P"] = 92.7 MIN

ELAPSED TIME (MIN)	DELTA TIME ["DT"] (MIN)	SHUT-IN PRESSURE ["P_{WS}"] (PSIG)	LOG [(T_P+DT)/DT]	DELTA PRESSURE [P_{WS} - P_{WF}]
143.9	20.0	42	0.751	0
145.9	22.0	43	0.717	1
147.9	24.0	44	0.687	2
149.9	26.0	45	0.660	3
151.9	28.0	46	0.635	4
153.9	30.0	47	0.612	5
158.9	35.0	51	0.562	9
163.9	40.0	54	0.521	12
168.9	45.0	58	0.486	16
173.9	50.0	61	0.455	19
178.9	55.0	66	0.429	24
183.9	60.0	71	0.406	29
188.9	65.0	77	0.385	35
193.9	70.0	82	0.366	40
198.9	75.0	87	0.349	45
203.9	80.0	92	0.334	50
208.9	85.0	98	0.320	56
213.9	90.0	104	0.308	62
216.1	92.3	106	0.302	64

SCOTT M. MATHESON
Governor

GORDON E. HARMSTON
Executive Director,
NATURAL RESOURCES

CLEON B. FEIGHT
Director

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL, GAS, AND MINING

1588 West North Temple
Salt Lake City, Utah 84116
(801) 533-5771

OIL, GAS, AND MINING BOARD

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EDWARD T. BECK
E. STEELE McINTYRE

March 3, 1980

The Anschutz Corporation
555 Seventeenth St.
Denver, Colorado 80202

RE: See enclosed sheet for wells

Gentlemen:

Our records indicate that you have not filed the monthly drilling reports for the months indicated above on the subject wells.

Rule C-22, General Rules and Regulations and Rules of Practice and Procedure, requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGC-1B, (U.S. Geological Survey Form 9-331) "Sundry Notices and Reports on Wells", or on company forms containing substantially the same information. We are enclosing forms for your convenience.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

Janice Tabish

JANICE TABISH
CLERK TYPIST

(1) **Well No. Anschutz Ranch 33-1**
Sec. 33, T. 4N, R. 7E.
Summit County, Utah
September 1979-February 1980

(2) Well No. Anschutz Ranch 27-1
Sec. 27, T. 4N, R. 7E.
Summit County, Utah
November 1979-February 1980

(3) Well No. Anschutz Ranch 34-2
Sec. 34, T. 4N, R. 7E.
Summit County, Utah
August 1979-February 1980

THE ANSCHUTZ CORPORATION

2400 ANACONDA TOWER
555 SEVENTEENTH STREET
DENVER, COLORADO 80202
TELEPHONE 303-825-6100
TWX 910-931-2620

April 11, 1980

RECEIVED
APR 16 1980
DIVISION OF
OIL, GAS & MINING

Mr. Cleon B. Feight, Director
Division of Oil Gas & Mining
1588 West, North Temple
Salt Lake City, Utah 84116

RE: Anschutz Ranch Field
Anschutz Ranch No. 33-1
SE¼ Sec. 33, T4N, R7E
Summit County, Utah

Dear Mr. Feight,

Enclosed please find our completion report on the subject well. We apologize for the delay, however, we are still evaluating further completion efforts. We shall keep you advised of those results. If you should have any questions regarding this matter please feel free to contact me.

Sincerely,

PBD

Peter B. Doty
Operations Coordinator

PBD/rtz

encl.

14

Form OGCC-3

SUBMIT IN DUPLICATE*

STATE OF UTAH

OIL & GAS CONSERVATION COMMISSION

(See other instructions on reverse side)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

5. LEASE DESIGNATION AND SERIAL NO.: FEE

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

1a. TYPE OF WELL: OIL WELL [ ] GAS WELL [X] DRY [ ] Other

b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] Other

8. FARM OR LEASE NAME: Anschutz Ranch

2. NAME OF OPERATOR: TheAnschutz Corporation

9. WELL NO.: 33-1

3. ADDRESS OF OPERATOR: 555 17th St. Suite 2400 Denver, Colorado 80202

10. FIELD AND POOL, OR WILDCAT: Anschutz Ranch

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*

At surface: 1377 FEL 1102' FSL (SWSE)

At top prod. interval reported below

At total depth: 852'FEL & 1058 FSL

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec.33,T4N, R7E S.L.M.

14. PERMIT NO.: 43-043-30101 DATE ISSUED: 7-16-79

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

15. DATE SPUDDED: 7-26-79 16. DATE T.D. REACHED: 9-25-79 17. DATE COMPL. (*Ready to prod.*): 12-16-79 (TA) 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*: 7327 S GR 19. ELEV. CASINGHEAD: 7327.5

20. TOTAL DEPTH, MD & TVD: 8271 8218TVD 21. PLUG, BACK T.D., MD & TVD: 22. IF MULTIPLE COMPL., HOW MANY*: 23. INTERVALS DRILLED BY: → ROTARY TOOLS: 0- T.D. CABLE TOOLS:

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

7516 - 94 Watton Canyon Lower

7410 - 72 Watton Canyon Middle

25. WAS DIRECTIONAL SURVEY MADE: YES

26. TYPE ELECTRIC AND OTHER LOGS RUN: DIL, CNL/FDC, BHC, FID, DIP, CBL/VDL, GRAVITOMEMTER (AMOCO)

27. WAS WELL CORED: YES

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
7"	26 - 29	8271	8 3/4	885 sx	-0-
9 5/8	36	1581	12 3/4	750 sx	-0-
~~13 3/8~~	~~48~~	~~99~~		~~150 sx~~	

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 7/8	7604	None

31. PERFORATION RECORD (*Interval, size and number*)

8004-44, 44 holes; 7803-78, 66 holes
7694-7703, 36 holes; 7516-94, 86 holes
7410-72', 28 holes; 7235-7348, 90 holes
7114-60, 40 holes

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
ATTACHED	

33.* PRODUCTION

DATE FIRST PRODUCTION: PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*): Well could not maintain production WELL STATUS (*Producing or shut-in*): T.A. [redacted]

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.)

RECEIVED APR 16 1980 DIVISION OF OIL, GAS & MINING

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

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

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

SIGNED Peter B. Doty TITLE Operations Coordinator DATE 4-14-80

*(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.
Cretaceous		4520	
Preuss	4542	6532'	SALT
Twin Creek	6532	8160	TIGHT-GAS
Nugget	8160	TD	WET

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
PREUSS	454	
TWIN CREEK	6532	
NUGGET	7160	

ACID, FRACTURE & CEMENT SQUEEZE SUMMARY
Anschutz Ranch # 33-1
SE ¼ Sec. 33T4N R7E
Summit County, Utah

INTERVAL	AMOUNT & KIND OF MATERIAL USED
8004-44	6200 gal 15% HCL w/ rock salt diverter
7803-78	8000 gal 15% HCL w/ rock salt diverter
7679-7745	4000 gal 15% HCL w/ rock salt diverter
7516-94	8000 gal 15% HCL w/ rock salt diverter
7410-72	6000 gal 15% HCL w/ rock salt diverter
7235-7348	10000 gal 15% HCL w/ rock salt diverter
7114-60	4000 gal 15% HCL w/ rock salt diverter
7516-94	100 sacks cement squeeze
7516-94	500 gal 28% HCL
7516-94 & 7410-72	35000 gal 28% HCL Acid Frac

April 17, 1980

The Anschutz Corp.
555 17th St.
Suite 2400
Denver, Colorado 80202

Re: Well No. Anschutz Ranch 33-1
Sec. 33, T. 4N, R. 7E.
Summit County, Utah

Gentlemen:

According to our records, a "Well Completion Report" filed with this office 4-14-80, from above referred to well indicates the following electric logs were run: DIL, CNL/FDC, BHC, FID, DIP, CBL/VDL, GRAVITOMEMTER. As of todays date this office has not received the following: DIP, CBL/VDL, GRAVITO-MEMTER.

To complete our files, please forward the logs this office has not received as soon as possible.

Your prompt attention to the above will be greatly appreciated.

Sincerely,

DIVISION OF OIL, GAS, AND MINING

Janice Tabish

JANICE TABISH
CLERK-TYPIST

THE ANSCHUTZ CORPORATION

2400 ANACONDA TOWER · 555 SEVENTEENTH STREET · DENVER, COLORADO 80202 · 303-825-6100 · TWX 910-931-2620

April 24, 1980

State of Utah
Department of Natural Resources
Division of Oil, Gas, and Mining
1588 West North Temple
Salt Lake City, Utah 84116

Re: Well No. Anschutz Ranch 33-1
Sec. 33, T4N, R7E
Summit County, Utah

Gentlemen:

We are in receipt of your letter dated April 17, 1980, in reference to the above Lease. Enclosed you will find the necessary logs that you were missing. We hope this will be satisfactory. Thank you.

Sincerely yours,

Peter B. Doty
Operations Coordinator

PBD:amc

Enclosures

RECEIVED
APR 28 1980
DIVISION OF
OIL, GAS & MINING

Form OGCC-1 b

STATE OF UTAH

OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

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.)

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

2. NAME OF OPERATOR: The Anschutz Corporation

3. ADDRESS OF OPERATOR: 2400 Anaconda Tower, 555 17th. St. Denver, Colo. 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1377 FEL 1102' FSL

5. LEASE DESIGNATION AND SERIAL NO.: FEE

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Anschutz Ranch

9. WELL NO.: 33-1

10. FIELD AND POOL, OR WILDCAT: Anschutz Ranch

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec.33,T4N,R7E S.L.M.

14. PERMIT NO.: 43-043-30101

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 7327 S GR

12. COUNTY OR PARISH: Summit

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) Weekly Report of Operations			[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.)*

9/1-9/8/79	Ø 6230'-7227'
	Core #1 @7151'-7171'
9/9-9/15	Ø 7281'-7596'
	Core #2 7266'-7291'
	DST #1 7141'-7291'
	Core #3 7464'-7478'
	Core #4 7478'-7519'
9/16-9/22	Ø 7612'-8001'
	Core #5 7580'-7612'
	DST #2 7460'-7680'
	Core #6 7682'-7707'
	Core #7 7707'-7978'
	Core #8 7978'-8001'
9/23-9/29	8085'-8271'
	DST #3
	Reached TD (8271') 9/24/79
	Logging
	Ran 203 jts. 7" 29# & 26# & cmt.
	Rig down 9/28/79 MORT
9/30-10/2	Tear down, Move out, clean up.

RECEIVED
MAY 20 1980
DIVISION OF
OIL, GAS & MINING

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

SIGNED Jim Bundy (by: MG) TITLE Drilling Manager DATE 5/17/80
Jim Bundy

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Form OGCC-1 b

STATE OF UTAH

OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

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.)

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

2. NAME OF OPERATOR: The Anschutz Corporation

3. ADDRESS OF OPERATOR: 2400 555-17th Street Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1,377' FEL & 1,102 FSL

5. LEASE DESIGNATION AND SERIAL NO.: Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Anschutz Ranch

9. WELL NO.: 33-1

10. FIELD AND POOL, OR WILDCAT: Anschutz Ranch

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 33 T4N R7E

14. PERMIT NO.: 43-043-30101

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 7,317 Gr.

12. COUNTY OR PARISH: Summit

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.)*

1. Spot cement from 8,050-7,050 ft. K.B. (covers all perforated intervals)
2. Spot 100 ft. of cement across any casing stub left as a result of cutting and pulling casing. 1600
3. Spot 10 sacks of cement at the surface to plug hole.
4. Weld steel plate over surface opening, marked to identify well and location.

253

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

SIGNED David J. Kaufman TITLE Production Engineer DATE 7/2/81

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

D

Form OGCC-1 b

STATE OF UTAH

OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

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.)

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

2. NAME OF OPERATOR: The Anschutz Corporation

3. ADDRESS OF OPERATOR: 2400 555-17th Street Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1,377' FEL & 1,102 FSL

5. LEASE DESIGNATION AND SERIAL NO.: Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Anschutz Ranch

9. WELL NO.: 33-1

10. FIELD AND POOL, OR WILDCAT: Anschutz Ranch

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 33 T4N R7E

14. PERMIT NO.: 43-043-30101

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 7,317 Gr.

12. COUNTY OR PARISH: Summit

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.)*

1. Spot cement from 8,050-7,050 ft. K.B. (covers all perforated intervals)
2. Spot 100 ft. of cement across any casing stub left as a result of cutting and pulling casing.
3. Spot 10 sacks of cement at the surface to plug hole.
4. Weld steel plate over surface opening, marked to identify well and location.

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 7/21/81
BY: B Feight

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

SIGNED David Kingston TITLE Production Engineer DATE 7/2/81

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Form OGCC-1 b

STATE OF UTAH

OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

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.)

1. OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR: The Anschutz Corporation

3. ADDRESS OF OPERATOR: 555 Seventeenth Street, Suite 2400, Denver CO 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1,377 FEL & 1,102 FSL

5. LEASE DESIGNATION AND SERIAL NO.: FEE

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Anschutz Ranch

9. WELL NO.: 33-1

10. FIELD AND POOL, OR WILDCAT: Anschutz Ranch

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec 33 T4N R7E

12. COUNTY OR PARISH: Summit

13. STATE: Utah

14. PERMIT NO.: 43-043-30101

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 7317' GL

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*	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.)*

1. Spot cement plugs at:
   #1 8050' - 7050'
   #2 5950' - 5800'
   #3 1650' - 1500'
   #4 50' - surface

   Plugs are to be spaced with 9.2 ppg 40 VIS gel-base, fresh water mud.

2. Weld steel plate over surface opening, marked to identify well and location.

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

SIGNED Robert C. Ormau TITLE _____ DATE _____

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

THE ANSCHUTZ CORPORATION

2400 ANACONDA TOWER
555 SEVENTEENTH STREET
DENVER, COLORADO 80202
TELEPHONE 303-825-6100
TWX 910-931-2620

Anschutz 33-1

July 28, 1981

Mr. Michael Minder
Division of Oil, Gas and
Mining
State of Utah
1588 West, North Temple
Salt Lake City, UT 84116

Dear Michael:

Here is another copy of the sundry notice for plugging the Anschutz Ranch 33-1. Please check this over and return to me as soon as possible.

If you have any questions or suggestions, please call me at 825-6100.

Sincerely yours,

Mark Buckland

Mark Buckland
Engineering Assistant

MB:cg

Enclosure

RECEIVED
8 1981
DIVISION OF
OIL, GAS & MINING

P

DIVISION OF OIL, GAS AND MINING

PLUGGING PROGRAM

NAME OF COMPANY: Anschutz Corporation David Kingston 303-825-6100

WELL NAME: Anschutz Ranch 33-1

SECTION 33 TOWNSHIP 4N RANGE 7E COUNTY Summit

VERBAL APPROVAL GIVEN TO PLUG AND ABOVE REFERRED TO WELL IN THE FOLLOWING MANNER:

TOTAL DEPTH: 8271'

CASING PROGRAM:

13 3/8", 48# @ 99' cement to surface

9 5/8", 36# @ 1581' cement to surface

7", 26-29# @ 8271' (TOC 5600)

FORMATION TOPS:

Kelvin-	2416'
Cretaceons-	4520'
Pruess-	4542'
Salt-	6480'
Twin Creek-	6532'
Boundry Butte-	7268'
Nugget-	8160'

Perfs:
8004-44;7803-78; 7609-7703;7516-94; 7410-72; 7235-7348' 7114-60

Cores:
Eight core from 7151-8000

DST's:
1) 7141-7291'
2) 7460-7680'
3) 8085-8271'

No water, no shows

PLUGS SET AS FOLLOWS:

1) 8050-7050'
2) 5950-5800'
3) Part 7" casing at 1600' set 150' cement plug
4) 1650-1500'
5) 50'-surface

The interval between plugs shall be filled with a 9.2#, 50 vis. fresh water gel based mud; erect regulation dryhole marker; clean up, grade and restore the location; and notify this Division when the location is prepared for inspection.

DATE 8-4-81 SIGNED MTM M.T.M.

Form OGCC-1 b

STATE OF UTAH

OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

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.)

AUG 06 1981

DIVISION OF OIL, GAS & MINING

1. OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR: The Anschutz Corporation

3. ADDRESS OF OPERATOR: 555 Seventeenth Street, Suite 2400, Denver CO 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1,377 FEL & 1,102 FSL

5. LEASE DESIGNATION AND SERIAL NO.: FEE

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Anschutz Ranch

9. WELL NO.: 33-1

10. FIELD AND POOL, OR WILDCAT: Anschutz Ranch

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec 33 T4N R7E

12. COUNTY OR PARISH: Summit

13. STATE: Utah

14. PERMIT NO.: 43-043-30101

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 7317' GL

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.)*

1. Spot cement plugs at:
   #1 8050' - 7050'
   #2 5950' - 5800'
   #3 1650' - 1500'
   #4 50' - surface

   Plugs are to be spaced with 9.2 ppg 40 VIS gel-base, fresh water mud.

2. Weld steel plate over surface opening, marked to identify well and location.

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 8-11-81
BY: M. J. Minder

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

SIGNED [signature] TITLE Production Engineer DATE 8/4/81

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Form OGCC-3

14

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

STATE OF UTAH

OIL & GAS CONSERVATION COMMISSION

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

RECEIVED MAY 03 1982 DIVISION OF OIL, GAS & MINING

2. NAME OF OPERATOR: TheAnschutz Corporation

3. ADDRESS OF OPERATOR: 555 17th St. Suite 2400 Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface: 1377 FEL 1102' FSL SWSE

At top prod. interval reported below

At total depth: 852'FEL & 1058 FSL

5. LEASE DESIGNATION AND SERIAL NO.: FEE

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Anschutz Ranch

9. WELL NO.: 33-1

10. FIELD AND POOL, OR WILDCAT: Anschutz Ranch

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec.33,T4N, R7E S.L.M.

14. PERMIT NO.	DATE ISSUED	12. COUNTY OR PARISH	13. STATE
43-043-30101	7-16-79	Summit	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
7-26-79	9-25-79	12-16-79 (TA) 7-31-81	7327 S GR	7327.5

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
8271 8218TVD			→	0- T.D.	

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

7516 - 94 Watton Canyon Lower
7410 - 72 Watton Canyon Middle

25. WAS DIRECTIONAL SURVEY MADE: YES

26. TYPE ELECTRIC AND OTHER LOGS RUN: DIL, CNL/FDC, BHC, FID, DIP, CBL/VDL, GRAVITOMEMTER (AMOCO)

27. WAS WELL CORED: YES

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
7"	26 - 29	8271	8 3/4	885 sx	-0-
9 5/8	36	1581	12 3/4	750 sx	-0-
~~13 3/8~~	~~48~~	~~99~~		~~150 sx~~	

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 7/8	7604	None

31. PERFORATION RECORD (Interval, size and number)

8004-44, 44 holes; 7803-78, 66 holes
7694-7703, 36 holes; 7516-94, 86 holes
7410-72', 28 holes; 7235-7348, 90 holes
7114-60, 40 holes

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
ATTACHED	

P+A

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
	Well could not maintain production	T.A.(T.S.I.)

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

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

SIGNED Peter B. Doty TITLE Operations Coordinator DATE 4-14-80

*(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, INCLULING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Cretaceous		4520	
Preuss	4542	6532'	SALT
Twin Creek	6532	8160	TIGHT-GAS
Nugget	8160	TD	WET

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
PREUSS	454	
TWIN CREEK	6532	
NUGGET	7160	

454