Form OGC-1a

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work: DRILL [XX] DEEPEN [ ] PLUG BACK [ ]

b. Type of Well: Oil Well [XX] Gas Well [ ] Other Single Zone [ ] Multiple Zone [ ]

2. Name of Operator: Wexpro Company

3. Address of Operator: P.O. Box 1129, Rock Springs, Wyoming 82901

4. Location of Well (Report location clearly and in accordance with any State requirements.*)
At surface: NE 1/4 NW 1/4 Section 22, T.36S., R.26E., 610' FNL, 1986' FWL
At proposed prod. zone

5. Lease Designation and Serial No.: Fee

6. If Indian, Allottee or Tribe Name: --

7. Unit Agreement Name: None

8. Farm or Lease Name: Bug

9. Well No.: 10

10. Field and Pool, or Wildcat: Wildcat

11. Sec., T., R., M., or Blk. and Survey or Area: ~~S. 22, T.36S., R.26E.~~

12. County or Parrish: San Juan 13. State: Utah

14. Distance in miles and direction from nearest town or post office*: 20 miles to Dove Creek, Colorado

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any): 610'

16. No. of acres in lease: 120

17. No. of acres assigned to this well: --

18. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft.: ~~Bug Well #4,6370'~~ NE SW S.16,T.36S., R.26E.

19. Proposed depth: 6410' Salt

20. Rotary or cable tools: Rotary

21. Elevations (Show whether DF, RT, GR, etc.): GR 6620'

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"	9-5/8"	36#	2055'	Circ. To Surface 940 Sks.Reg."G"cement w/3% CaCl.
8-3/4"	5-1/2"	17#	6410'	To be determined from caliper logs

Wexpro Company proposes to drill the subject well to a total depth of 6410'.

APPROVED BY THE DIVISION OF OIL, GAS, AND MINING
DATE: 8-29-80
BY: [signature]

RECEIVED AUG 28 1980 DIVISION OF OIL, GAS & MINING

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: Jay W. Headd Title: Division Engr. Date: 8/21/80

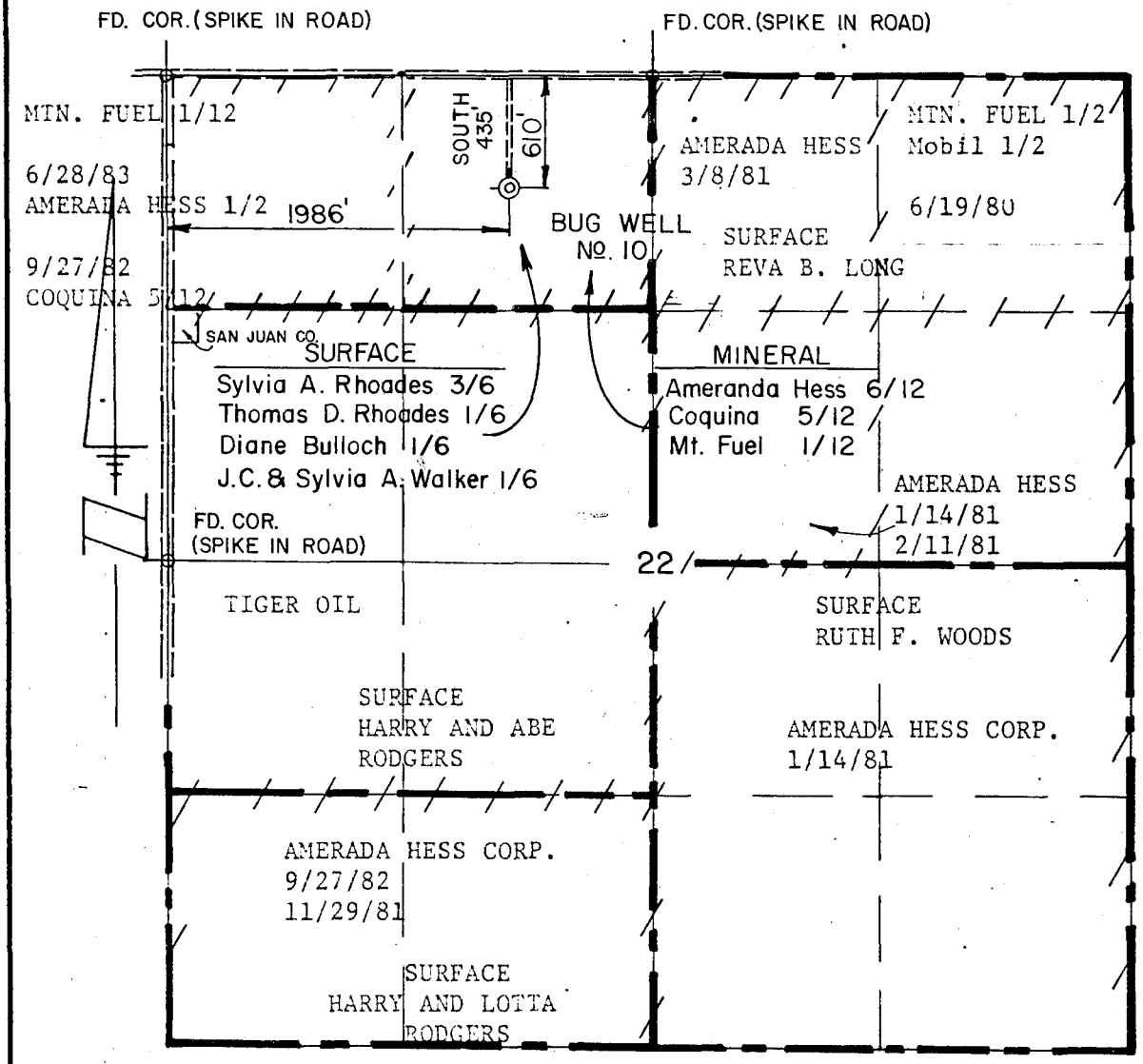
(This space for Federal or State office use)

Permit No. ..... Approval Date .....

Approved by ..... Title ..... Date .....
Conditions of approval, if any:

*See Instructions On Reverse Side

T. 36 S., R. 26 E., S.L.B.& M.
San Juan County, Utah



LOCATION PLAN
SCALE 1" = 1000

Surface
Mineral

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.

LEGEND

- ℄ Well
- Stone Corner
- Pipe Corner

Brent J. Bai
ENGINEER
BRENT J. BAI, UTAH Registration L.S. No. 5031

ENGINEERING RECORD	
SURVEYED BY	B & G 8/11/80
REFERENCES	G.L.O. PLAT ☐ U.S.G.S. QUAD. MAP ☒
LOCATION DATA	
FIELD	Bug
LOCATION: NE 1/4 NW 1/4, Sec. 22, T. 36 S., R. 26 E., S.L.B.& M. 610' FNL, 1986' FWL	
San Juan County, Utah	
WELL ELEVATION: 6608" as graded" by electronic vertical angle from Company Bench Mark.	

WEXPRO COMPANY

CERTIFIED WELL LOCATION AND WELL SITE PLAN

BUG WELL No. 10

DRAWN B & G 8/14/80	SCALE: 1" = 1000	
CHECKED CFW & DTM	DRWG. NO M-15480	1/4
APPROVED: RWH		

FILE NO. A-11 SHEET 1 OF 4

WEXPRO COMPANY
BUG WELL NO. 10
LEASE NO.: FEE
NE NW SECTION 22, T.36S., R.26E.
SAN JUAN COUNTY, UTAH
10-Point Plan

1. The surface formation is Morrison.

2. Estimated tops of important geological markers are:

Morrision	Surface
Entrada	1,130'
Carmel	1,270'
Navajo	1,320'
Chinle	1,980'
Shinarump	2,715'
Cutler	2,985'
Honaker Trail	4,650'
Paradox	5,360'
Upper Ismay	5,830'
Lower Upper Ismay (Base 2nd Shale)	6,010'
Lower Ismay Shale	6,065'
Lower Ismay Porosity	6,185'
"B" Zone	6,205'
Desert Creek	6,260'
Lower Bench	6,310'
Desert Creek Porosity	6,320'
Salt	6,405'
Total Depth:	6,410'

3. Estimated depths of anticipated water, oil or gas or other mineral bearing formations expected to be encountered:

No water flows anticipated. Surface casing is designed to protect aquifer in the Navajo sandstone.

Oil or gas expected in Objective Reservoir -- Lower Upper Ismay, 6010'; Desert Creek Porosity, 6320'. Also, the Honaker Trail, 4650', and the Lower Ismay Porosity, 6185', may be productive.

No mineral bearing formations anticipated.

4. Casing Program:

Proposed	Footage	Size	Grade	Weight	Condition	Thread
Surface	2055'	9-5/8"	K-55	36#	New	8rd ST&C
Production	6410'	5-1/2"	K-55	17#	New	8rd LT&C

Cement Program:

Surface: 940 sacks of Regular Type "G" cement plus 70% excess cement treated with 5% Dowell D-43A or 3% Calcium Chloride.

Production: Cement volumes and composition to be determined from caliper logs. Cement casing with 50-50 Pozmix "A" cement. Cement to be set 1000' above the uppermost producing zone.

5. Operator's minimum specifications for pressure control equipment requires a 10", 3000 psi annular preventer, and a 10", 3000 psi double gate blowout preventer from the surface to the total depth. See attached diagram. Blowout preventers will be tested by rig equipment after each string of casing is run. All ram-type preventers will have hand wheels installed and operative at the time the preventers are installed.

6. Fresh water with minimum properties from surface to total depth. Spud mud will be used for the surface hole. A mud de-sander will be used from under the surface casing to total depth to remove all undesirable solids from the mud system and to keep the mud weight to a minimum. The mud weight will be brought up to 11.7 ppg before drilling into the Desert Creek zone at 6260'. Mud weight will start to increase at 6100'.

   A fully manned logging unit will be used from 4400' to total depth. The contractor will catch 10-foot samples from surface to 4400 feet.

   Sufficient mud materials to maintain mud requirements and to control minor lost circulation and blowout problems will be stored at the well site.

7. Auxiliary equipment will consist of: (1) A manually operated kelly cock; (2) No floats at bit; (3) Mud will be monitored visually from 0' to total depth; and, (4) Full opening Shafer floor valve manually operated.

8. Five drill stem tests:

(1 & 2)	Honaker Trail	4650'
3)	Lower Upper Ismay	6010'
4)	Lower Ismay Porosity	6185'
5)	Desert Creek Porosity	6320'

   Cores: 60', Desert Creek Porosity, 6320'

   Mechanical Logs:
   1. Dual Induction Lateralog from total depth to surface pipe.
   2. Compensated Neutron-Density Log with caliper and Gamma Ray from total depth to surface pipe. Run Gamma Ray and CNL to surface.
   3. Continuous Dipmeter from total depth to 4410' (minimum run). Run Gamma Ray correlation log with Dipmeter.

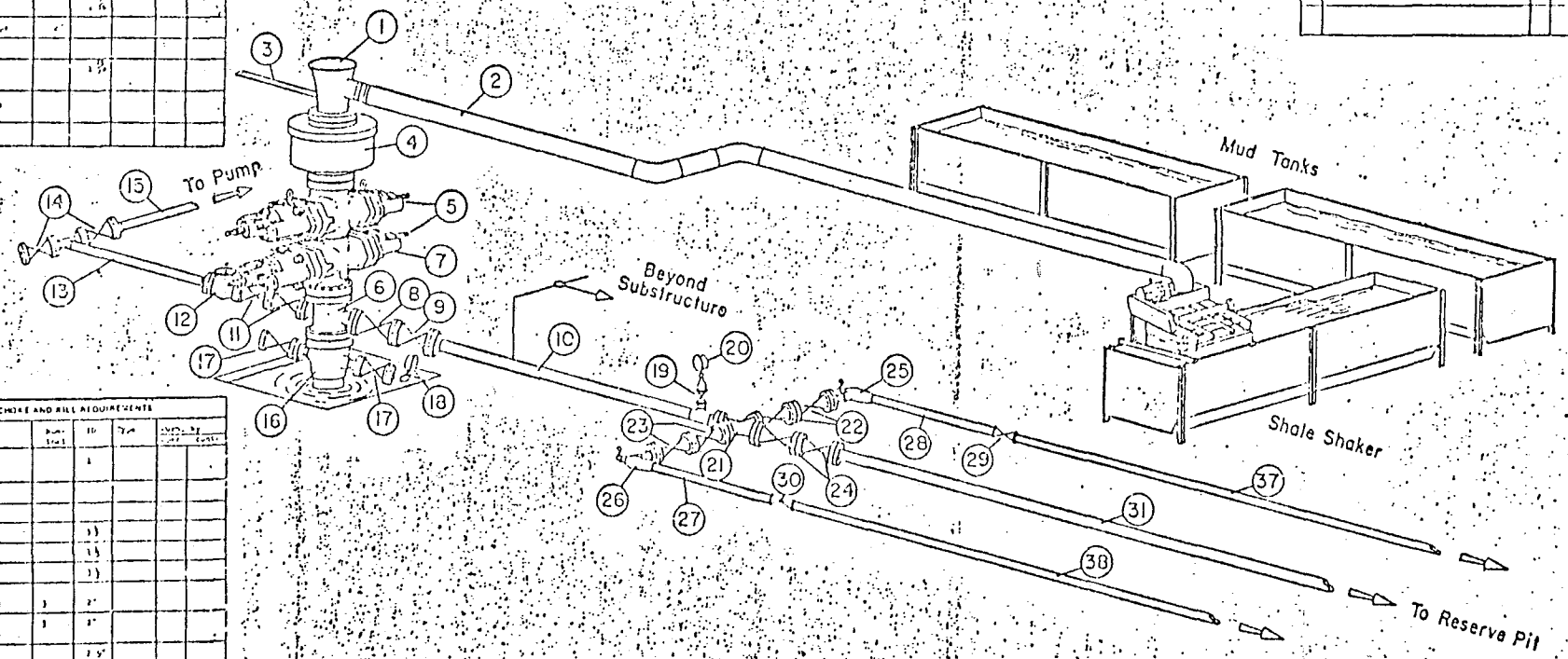
   During drill stem testing or when a completion rig is completing a well, some flaring of natural gases or produced gases will be necessary.

9. No abnormal temperatures or Hydrogen Sulfide is anticipated. No abnormal pressures anticipated except the Desert Creek Porosity at 6320'. The pressure will be controlled with a mud weight of 11.7 ppg before drilling into the Desert Creek Porosity zone.

10. The anticipated spud date is upon approval from the State of Utah. Duration of drilling will be approximately 25 days with 2 days completion.

MOUNTAIN FUEL SUPPLY COMPANY

3000 psi BLOWOUT PREVENTION EQUIPMENT



CHECKLIST 3000psi EQUIPMENT

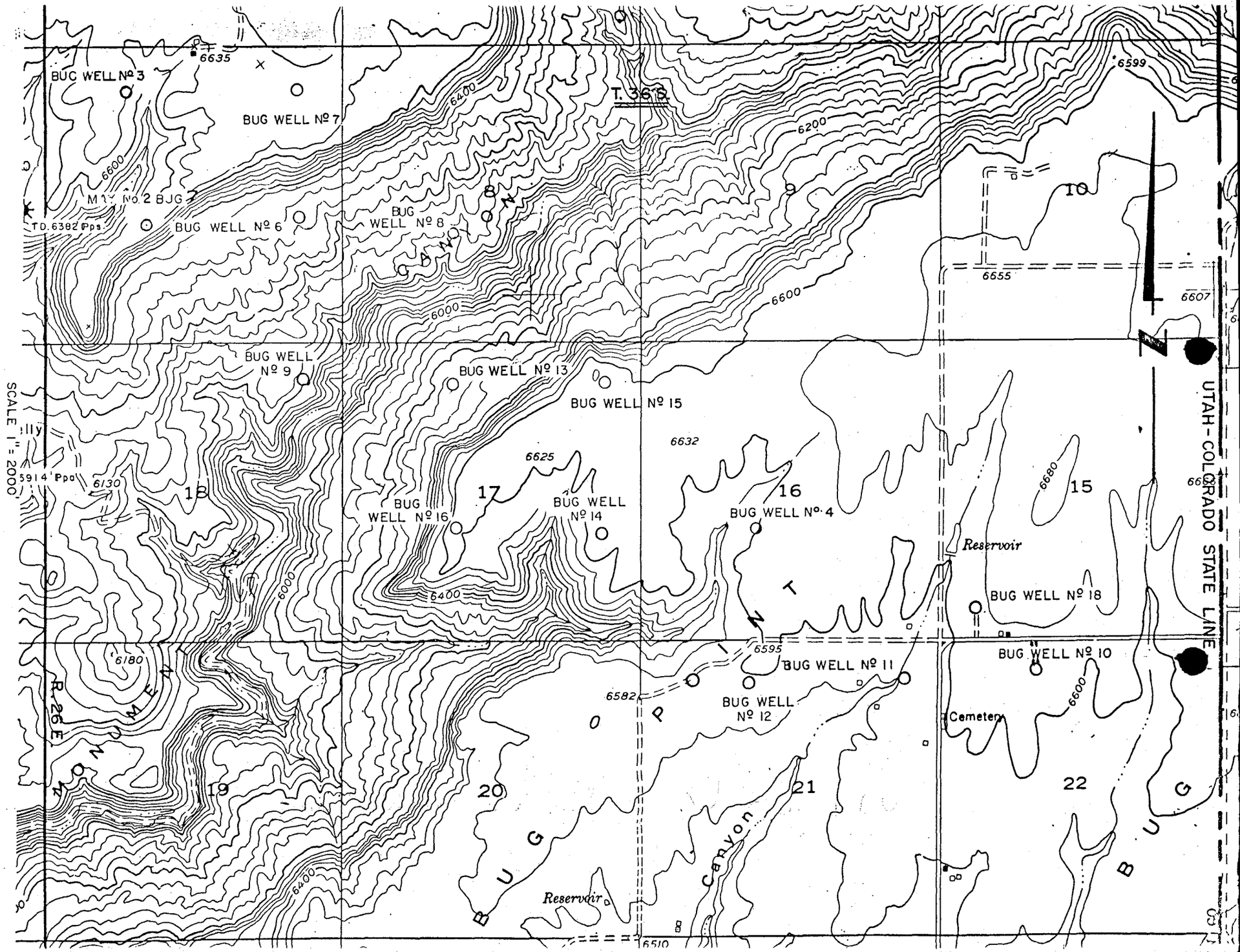
No.	Item	Nom. Size	ID	Type	[illegible]	[illegible]
1	Drilling Nipple					
2	Flowline					
3	Fill-up Line	2"				
4	Annular Preventer			Hydrill Cameron Shaffer		
5	Pipe rams to fit the dual rod over dual					
6	Drilling Spool with 2" and 3" outlets			Vetco		
7	[illegible]					
8	Valve Gate		3 1/8			
9	Valve-Hydraulic Operated Gate		3 1/8			
10	Choke Line		2"			
11	Gate Valve		2"			
12	Choke Valve		2"			
13	Kill Line	2"				
14	Gate Valve		2"			
15	Kill line to pump	2"				
16	Casing Head					
17	Valve Gate 2" 2"		3 1/8			
18	Compound Pressure Gauge					
	Rear Building					

STANDARD CHOKE AND KILL REQUIREMENTS

No.	Item	Nom. Size	ID	Type	[illegible]	[illegible]
19	Valve Gate 2" 2"		3			
20	Compound Pressure					
21	Choke 2"x3"					
22	Valve Gate		3 1/8			
23	Valve Gate		3 1/8			
24	Valve Gate		3 1/8			
25	Choke line w/2" or equivalent	3	2"			
26	Choke line w/2" or equivalent	3	2"			
27	Line to Separator		2 1/2"			
28	Line to separator	3	2 1/2"			
29	Valve Gate	3	3 1/8			
30	Valve Gate	3	3 1/8			
31	Line to Res. Pit	3	2 1/2"			
		3				
		3				
37	Line to Res		2 1/2"			
38	Line to Res. Pit		2 1/2"			

SPECIAL CHOKE AND KILL REQUIREMENTS

SPECIAL STACK REQUIREMENTS



AREA MAP FOR BUG WELL LOCATIONS

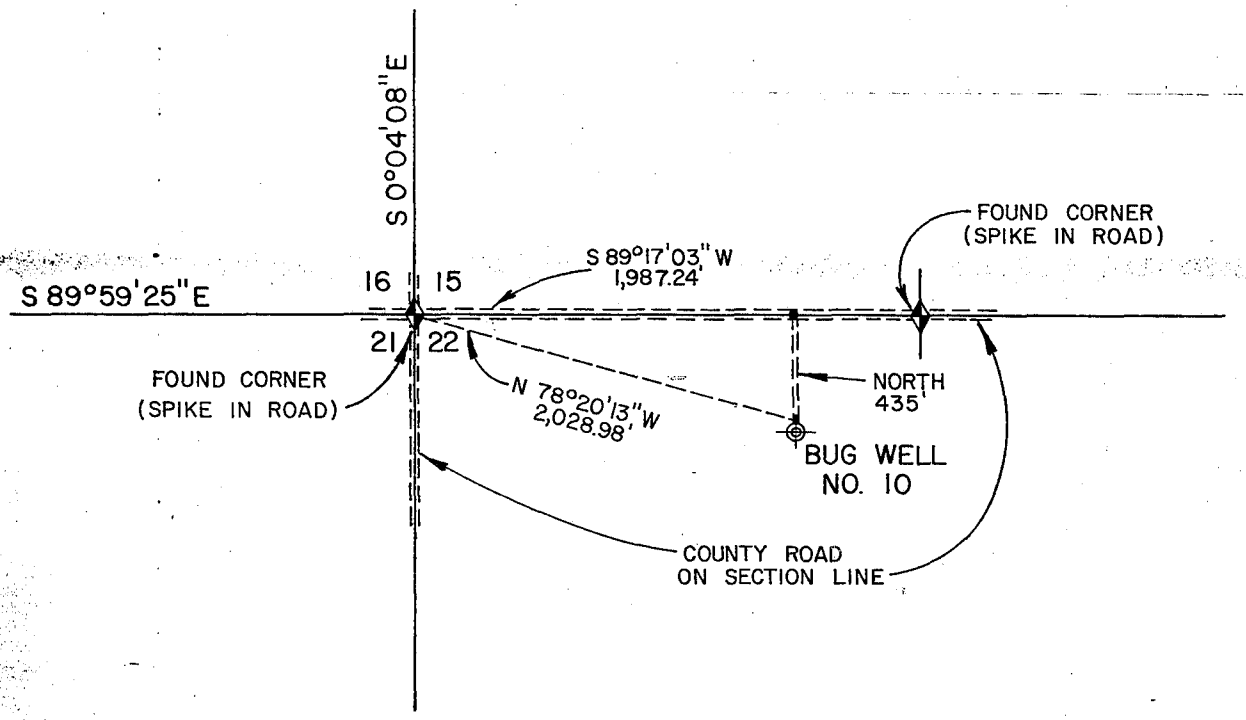
BUG WELL NO. 10

8/15/80 crw

A-11

M-15484

T.36S.,R.26E.,S.L.B.&M.
SAN JUAN COUNTY, UTAH



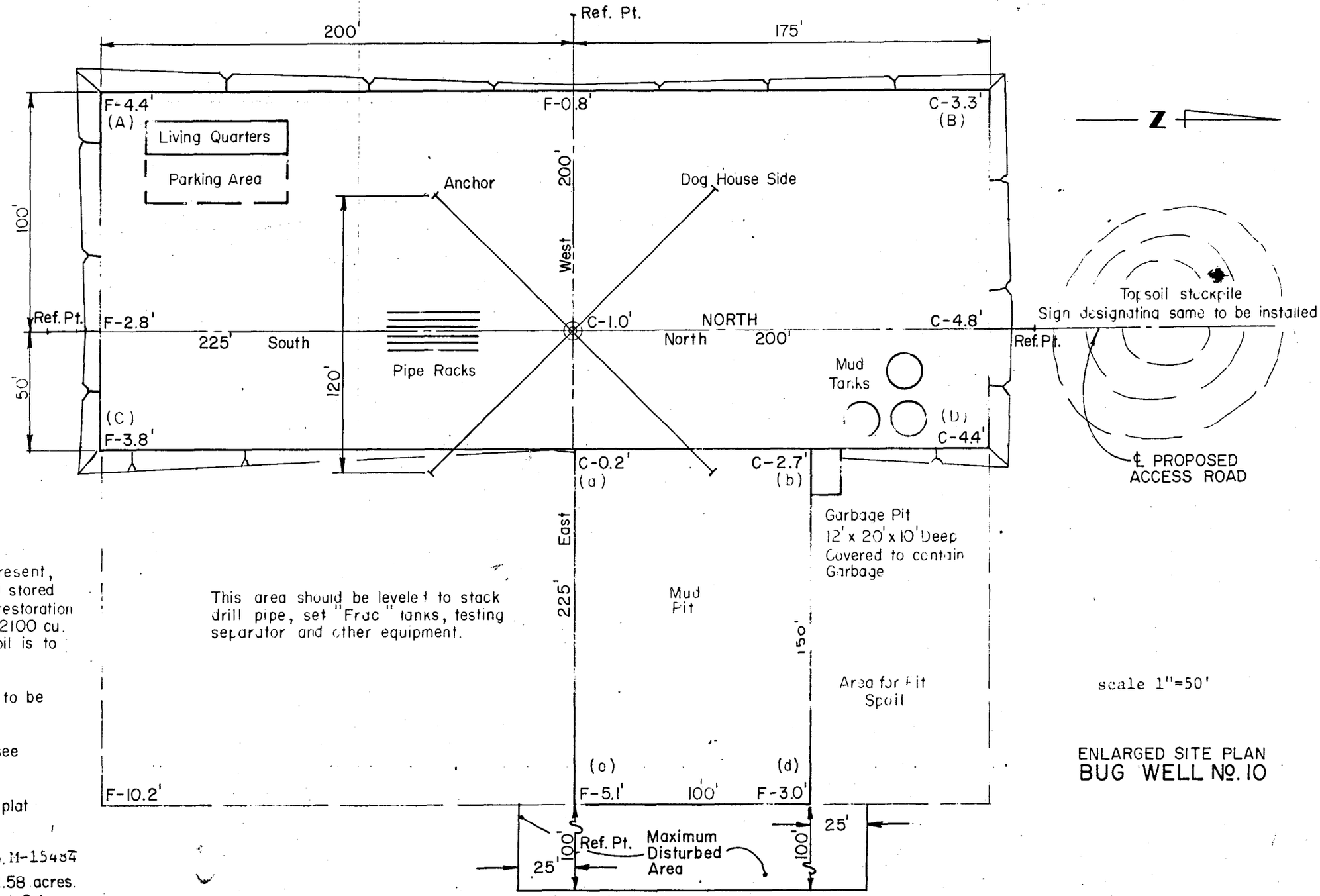
TABULATIONS

Sylvia A. Rhoades
Thomas D. Rhoades
Diane Bulloch
J. C. & Sylvia A. Walker

P.I. STATIONS:	BEARING:	
1. 0 + 00	North	435.00 feet
2. 4 + 35		26.35 rods
		0.08 miles

PROPOSED ACCESS ROAD

BUG WELL NO. 10



ENLARGED SITE PLAN
BUG WELL No. 10

sites where topsoil is present, same is to be removed and stored on the adjacent land for restoration at the site when required. 2100 cu. yds. or the top 6" of topsoil is to be stockpiled.

Mud and garbage pits are to be fenced and unlined.

For well location profiles see dwg. no. M-15482

For well location certified plat see dwg. no. M-15480

For area map see dwg. no. M-15484

Area for well location is 2.58 acres.
Cuts are at 1:1; Fills are at 2:1.

B & G FILE A-11

M-15481

** FILE NOTATIONS **

DATE: Aug 29, 1980

OPERATOR: Trappro Co.

WELL NO: Rug 10

Location: Sec. 22 T. 36S R. 26E County: San Juan

File Prepared: ✓ Entered on N.I.D: ✓

Card Indexed: ✓ Completion Sheet: ✓

API Number 43-037-30591

CHECKED BY:

Petroleum Engineer: M.J. Minder 8/29/80

Director:

Administrative Aide:

APPROVAL LETTER:

Bond Required: ✓ Survey Plat Required:

#1

Order No. O.K. Rule C-3

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

Lease Designation Fee Plotted on Map ✓

Approval Letter Written

Hot Line ✓ P.I. ✓

August 29, 1980

Wexpro Company
P.O. Box 1129
Rock Springs, Wyoming 82901

Re: Well No: Bug 10
Sec. 22, T.36S, R26E
San Juan County, Utah

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

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

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

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 43-037-30591.

Sincerely,

DIVISION OF OIL,GAS AND MINING

Mitchael T. Minder
Petroleum Engineer

/do
cc:

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 [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: Wexpro Company

3. ADDRESS OF OPERATOR: P. O. Box 1129, Rock Springs, Wyoming 82901

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: NE NW 610' FNL, 1986' FWL

5. LEASE DESIGNATION AND SERIAL NO.: Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: –

7. UNIT AGREEMENT NAME: –

8. FARM OR LEASE NAME: Bug

9. WELL NO.: 10

10. FIELD AND POOL, OR WILDCAT: Bug

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 22-36S-26E., SLB&M

12. COUNTY OR PARISH: San Juan

13. STATE: Utah

14. PERMIT NO.: API #: 43-037-30591

15. ELEVATIONS (Show whether DF, RT, GR, etc.): GR 6608'

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)			[ ]
(Other) Supplementary History			[X]				

(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.) *

Depth 56', spudded 10-5-80 at 4:30 p.m., landed 14" conductor pipe at 53', set 6 yards of construction concrete, now waiting on rotary tools.

RECEIVED
OCT 20 1980

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

SIGNED Lee Martin TITLE Asst. Drlg Supt. DATE Oct. 16, 1980

(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 [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: Wexpro Company

3. ADDRESS OF OPERATOR: P. O. Box 1129, Rock Springs, Wyoming 82901

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: NE NW 610' FNL, 1986' FWL

5. LEASE DESIGNATION AND SERIAL NO.: Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: –

7. UNIT AGREEMENT NAME: –

8. FARM OR LEASE NAME: Bug

9. WELL NO.: 10

10. FIELD AND POOL, OR WILDCAT: Bug

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 22-36S-26E., SLB&M

14. PERMIT NO.: API #: 43-037-30591

15. ELEVATIONS (Show whether DF, RT, GR, etc.): GR 6608'

12. COUNTY OR PARISH: San Juan

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) Supplementary History			[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.) *

Depth 2207', drilling with water.

Rigged up rotary tools on 10-28-80, landed 9-5/8" casing, report to be sent later.

RECEIVED

NOV 10 1980

DIVISION OF OIL, GAS & MINING

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

SIGNED Lee Martin TITLE Asst. Drlg Supt. DATE Nov. 5, 1980

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

CL-511-1

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

RECEIVED
NOV 26 1980
DIVISION OF OIL, GAS & MINING

PRELIMINARY REPORT

CORE ANALYSIS RESULTS

Company WEXPRO COMPANY Formation Desert Creek File RP-3-3039
Well Bug Well # 10 Core Type Dia. Conv. 4" Date Report 11-24-80
Field Bug Drilling Fluid Chem/Gel Analysts Getz
County San Juan State Utah Elev. 6623 KB Location NE,NW Sec.22-36S-26E

Lithological Abbreviations

SAND-SD SHALE-SH LIME-LM	DOLOMITE-DOL CHERT-CH GYPSUM-GYP	ANHYDRITE-ANHY CONGLOMERATE-CONG FOSSILIFEROUS-FOSS	SANDY-SDY SHALY-SHY LIMY-LMY	FINE-FN MEDIUM-MED COARSE-CSE	CRYSTALLINE-XLN GRAIN-GRN GRANULAR-GRNL	BROWN-BRN GRAY-GY VUGGY-VGY	FRACTURED-FRAC LAMINATION-LAM STYLOLITIC-STY	SLIGHTLY-SL/ VERY-V/ WITH-W/

WHOLE CORE ANALYSIS WITH BOYLE'S LAW POROSITY

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS MAX 900		POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE OIL	RESIDUAL SATURATION PER CENT PORE TOTAL WATER	GRAIN DENSITY	SAMPLE DESCRIPTION AND REMARKS
	6300-12	- - -	- - -	- - -	- - -	- - -	- - -	SHALE - NO ANALYSIS
	6312-18	- - -	- - -	- - -	- - -	- - -	- - -	ANHYDRITE - NO ANALYSIS
	6318-19	- - -	- - -	- - -	- - -	- - -	- - -	SHALE - NO ANALYSIS
1	6319-20	0.19	0.02	6.5	0.0	35.4	2.71	DOL-BLK,vf xln,shly
2	6320-21	0.33	0.01	6.0	0.0	44.8	2.78	DOL-BLK,vf xln,sl/shl, sl/anhy,sl/vuggy
3	6321-22	0.07		3.4	0.0	39.1	2.76	DOL-BRN,m xln,anhy,vuggy, rubble
4	6322-23	4.9		5.7	0.0	32.4	2.81	DOL-BRN,m xln,anhy,vuggy, rubble
5	6323-24	62	39	7.7	0.0	20.6	2.78	DOL-BRN,m xln,anhy,vuggy
6	6324-25	7.0	5.1	8.5	1.4	28.8	2.81	DOL-BRN,m xln,anhy,vuggy
7	6325-26	16	15	10.4	7.6	66.3	2.81	DOL-BRN,m xln,anhy,vuggy
8	6326-27	6.2	5.4	8.7	6.5	49.1	2.81	DOL-BRN,m xln,anhy,vuggy
9	6327-28	7.5	7.3	10.5	6.8	48.5	2.80	DOL-BRN,m xln,anhy,vuggy
10	6328-29	10	6.3	7.6	3.0	50.7	2.79	DOL-BRN,m xln,anhy,vuggy
11	6329-30	0.40	0.40	5.0	0.0	72.2	2.75	DOL-BLK,vf xln,shly
12	6330-31	0.01		0.5	0.0	84.6	2.68	DOL-BLK,vf xln,shly
13	6331-32	0.01		3.6	0.0	73.3	2.78	DOL-BLK,vf xln,shly
14	6332-33	0.01		1.3	0.0	60.0	2.71	DOL-BLK,vf xln,shly
15	6333-34	0.60		0.9	31.8	50.0	2.59	DOL-BLK,vf xln,shly
16	6334-35	0.01		0.8	13.5	56.8	2.64	DOL-BLK,vf xln,shly
17	6335-36	0.01		3.1	12.2	25.4	2.66	DOL-BLK,vf xln,shly
18	6336-37	8.6*	0.11	5.2	0.0	91.3	2.74	DOL-BLK,vf xln,shly
19	6337-38	4.1*	3.4*	4.8	0.0	54.6	2.71	DOL-BLK,vf xln,shly
20	6338-39	0.14	0.06	3.8	0.0	50.0	2.72	DOL-BLK,vf xln,shly
21	6339-40	0.01		0.9	0.0	75.0	2.69	DOL-BLK,vf xln,shly
22	6340-41	0.02		0.4	0.0	68.2	2.68	DOL-BLK,vf xln,shly
23	6341-42	0.08	0.05	1.3	0.0	28.6	2.68	DOL-BLK,vf xln,shly
	6342-47	- - -	- - -	- - -	- - -	- - -	- - -	SHALE - NO ANALYSIS

* FRACTURE PERMEABILITY

These analyses, opinons or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operations, or profitableness of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

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.)

5. LEASE DESIGNATION AND SERIAL NO.: Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: –

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

7. UNIT AGREEMENT NAME: –

2. NAME OF OPERATOR: Wexpro Company

8. FARM OR LEASE NAME: Bug

3. ADDRESS OF OPERATOR: P. O. Box 1129, Rock Springs, Wyoming 82901

9. WELL NO.: 10

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: NE NW 610' FNL, 1986' FWL

10. FIELD AND POOL, OR WILDCAT: Bug

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 22-36S-26E., SLB&M

14. PERMIT NO.: API #: 43-037-30591

15. ELEVATIONS (Show whether DF, RT, GR, etc.): KB 6623.30' GR 6608'

12. COUNTY OR PARISH: San Juan

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) Supplementary History			[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.) *

Depth 6394', rig released November 26, 1980.
Landed 9-5/8", 36#, K-55, 8rd thd, ST&C casing at 2043.81', set with 700 sacks class B cement, tailed in with 300 sacks class B cement treated with 3% calcium chloride, ran 1" pipe to 80' and cemented with 100 sacks class B cement treated with 3% calcium chloride, returned 2 barrels to surface, cement in place at 12:45 a.m. November 3, 1980.
Landed 5-1/2", 17#, K-55, 8rd thd, LT&C casing at 6393.89', set with 420 sacks 50-50 Pozmix A cement, cement in place at 5:30 a.m. on November 26, 1980.
DST #1: 5704-5769', Paradox, IO 1/2 hr, ISI 1 hr, FO 1-1/2 hrs, FSI 2 hrs, opened weak, reopened dead, recovered 270' mud and 60' slightly gas cut mud, IHP 2941, IOFP's 27-107, ISIP 240, FOFP's 160-160, FSIP 480, FHP 2941.
DST #2: 6192-6221', Ismay, IO 1/2 hr, ISI 1 hr, FO 1-1/2 hrs, FSI 3 hrs, opened weak on both openings, no gas, recovered 1920' mud, IHP 2981, IOFP's 53-240, ISIP 520, FOFP's 333-547, FSIP 1025, FHP 2981.
DST #3: 6319-6347', Desert Creek, 660' water cushion, IO 1/2 hr, ISI 2 hrs, FO 185 minutes, FSI 4 hrs, opened weak increasing to strong, no gas, reopened, gas at once, 55 minutes 16 Mcf, 115 minutes 22 Mcf, 180 minutes 24 Mcf, reversed out water cushion and 25 gallons highly gas cut mud, recovered 25' gas, water and oil cut mud, IHP 3801, IOFP's 253-293, ISIP 3383, FOFP's 187-267, FSIP 3316, FHP 3747.

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

SIGNED Lee Martin TITLE Asst. Drlg Supt. DATE December 4, 1980

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

CORRECTED COP

FLUID SAMPLE DATA

Date	11-19-80	Ticket Number	728370
Kind of D.S.T.	OPEN HOLE	Halliburton Location	FARMINGTON
Tester	MR. AULD	Witness	MR. SLIGER
Drilling Contractor	MR. PRUETT ALL WESTERN		IC

Sampler Pressure 65 P.S.I.G. at Surface

Recovery: Cu. Ft. Gas .025
cc. Oil
cc. Water 2400
cc. Mud
Tot. Liquid cc.

Gravity ° API @ °F.

Gas/Oil Ratio cu. ft./bbl.

	RESISTIVITY			CHLORIDE CONTENT
Recovery Water		@	°F.	ppm
Recovery Mud	2.59	@ 51	°F.	ppm
Recovery Mud Filtrate		@	°F.	ppm
Mud Pit Sample	2.64	@ 54	°F.	ppm
Mud Pit Sample Filtrate		@	°F.	ppm

Mud Weight 9.4 vis 45 sec.

EQUIPMENT & HOLE DATA

Formation Tested	Lower Ismay		
Elevation	-		Ft.
Net Productive Interval	29'		Ft.
All Depths Measured From	Kelly Bushing		
Total Depth	6221'		Ft.
Main Hole/Casing Size	8 3/8"		
Drill Collar Length	601'	I.D.	2.25"
Drill Pipe Length	5555'	I.D.	3.826"
Packer Depth(s)	6188' - 6194'		Ft.
Depth Tester Valve	6170'		Ft.

Cushion TYPE AMOUNT Ft. Depth Back Pres. Valve Surface Choke 3/4" ADJ. Bottom Choke .75"

Recovered *1920 Feet of Mud

Recovered Feet of

Recovered Feet of

Recovered Feet of

Recovered Feet of

Mea. From Tester Valve

RECEIVED DEC 08 1980 DIVISION OF OIL, GAS & MINING

Remarks SEE PRODUCTION TEST DATA SHEET.

*Leaking dual CIP valve...both flow period pressures are involved. Total amount of recovery is also affected by leaking valve. Initial closed in pressure is questionable - final closed in pressure is no good due to leakage. Hydrostatic pressures are good.

TEMPERATURE	Gauge No. 2033 Depth: 6174' Ft.		Gauge No. 2032 Depth: 6217' Ft.		Gauge No. Depth: Ft.		TIME (00:00-24:00 hrs.)	
	12 Hour Clock		24 Hour Clock		Hour Clock		Tool Opened 07:33	
Est. °F.	Blanked Off NO		Blanked Off YES		Blanked Off			
Actual 127°F.	Pressures		Pressures		Pressures		Opened Bypass 13:33	
	Field	Office	Field	Office	Field	Office	Reported Minutes	Computed Minutes
Initial Hydrostatic	2981	2971.7	3064	2993.3				
First Period Flow Initial	53	53.3	66.	72.9			—	—
First Period Flow Final	240	243.9	252	255.9			30	
First Period Closed in	520	510.6	517	526.5			60	
Second Period Flow Initial	333	327.9	358	348.8			—	—
Second Period Flow Final	547	519.9	544	535.8			90	
Second Period Closed in	1025	1035.9	1045	1055.7			180	
Third Period Flow Initial							—	—
Third Period Flow Final								
Third Period Closed in								
Final Hydrostatic	2981	2971.7	2984	2993.3			—	—

Legal Location Sec. - Twp. - Rng. 22 - 36S - 26E

Lease Name BUG

Well No. 10

Test No. 2

Field Area BUG

Tested Interval 6194' - 6221'

County SAN JUAN

Lease Owner/Company Name WEXPRO COMPANY

State UTAH

FORM 181-R2 — PRINTED IN U.S.A.

FORMATION TEST DATA

LITTLE'S 111033 75C 2/80

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FLUID SAMPLE DATA

Date	11-15-80	Ticket Number	717307
Kind of D.S.T.	OPEN HOLE	Halliburton Location	FARMINGTON
Tester	FREIDLINE	Witness	MIKE SLIGER
Drilling Contractor	ALL WESTERN # 3		DR

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

Recovery: Cu. Ft. Gas _____
cc. Oil _____
cc. Water _____
cc. Mud 1850
Tot. Liquid cc. _____

Gravity _____ ° API @ _____ °F.

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

	RESISTIVITY			CHLORIDE CONTENT
Recovery ~~Water~~ Mud	1.529	@ 61	°F.	2436 ppm
Recovery ~~Mud~~ Sampler	1.41	@ 56	°F.	2654 ppm
Recovery Mud Filtrate		@	°F.	ppm
Mud Pit Sample	1.578	@ 56	°F.	2345 ppm
Mud Pit Sample Filtrate		@	°F.	ppm

Mud Weight 9.2 vis 33 sec.

EQUIPMENT & HOLE DATA

Formation Tested	Paradox		
Elevation	6608' GL-6623' KB		Ft.
Net Productive Interval	21'		Ft.
All Depths Measured From	Kelly Bushing		
Total Depth	5769'		Ft.
Main Hole/Casing Size	8 3/8"		
Drill Collar Length	444'	I.D. 2 1/4"	
Drill Pipe Length	5216'	I.D. 3.826"	
Packer Depth(s)	5692.39-5704'		Ft.
Depth Tester Valve	5675.3'		Ft.

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

Mea. From Tester Valve

Recovered 210 Feet of mud

Recovered 60 Feet of slightly gas cut mud

Recovered _____ Feet of

Recovered _____ Feet of

Recovered _____ Feet of

Remarks See production test data sheet

TEMPERATURE	Gauge No. 2033 Depth: 5681.05 Ft.	Gauge No. 2032 Depth: 5766 Ft.	Gauge No. Depth: Ft.	TIME (00:00-24:00 hrs.)
	24 Hour Clock	24 Hour Clock	Hour Clock	Tool Opened 0314
Est 128 °F.	Blanked Off No	Blanked Off Yes	Blanked Off	
Actual °F.	Pressures	Pressures	Pressures	Opened Bypass 0818

		Field	Office	Field	Office	Field	Office	Reported Minutes	Computed Minutes
Initial Hydrostatic		* 2940.9	2729.8	2784	2781.3				
First Period	Flow Initial	26.7	51.9	106.2	91.5			—	—
	Flow Final	106.7	17.3	159.2	140.5			31	
	Closed in	240.0	235.9	291.8	282.5			60	
Second Period	Flow Initial	160.0	151.9	199.0	196.2			—	—
	Flow Final	160.0	142.6	199.0	183.0			93	
	Closed in	480.0	479.9	530.4	527.8			120	
Third Period	Flow Initial							—	—
	Flow Final								
	Closed in								
Final Hydrostatic		* 2940.9	2693.5	2784.0	2745.3			—	—

*Incorrectly read in field.

Legal Location Sec. - Twp. - Rng. 22-36S-26E

Lease Name BUG

Well No. 10

Test No. 1

Field Area BUG

Tested Interval 5704-5769'

County SAN JUAN

State UTAH

Lease Owner/Company Name WEXPRO

FORM 181—R2 — PRINTED IN U.S.A.

FORMATION TEST DATA

LITTLE'S 111033 75C 2/80

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Casing perfs. _____ Bottom choke _____ Surf. temp _____ °F Ticket No. 717307

Gas gravity _____ Oil gravity _____ GOR _____

Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F

INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED _____

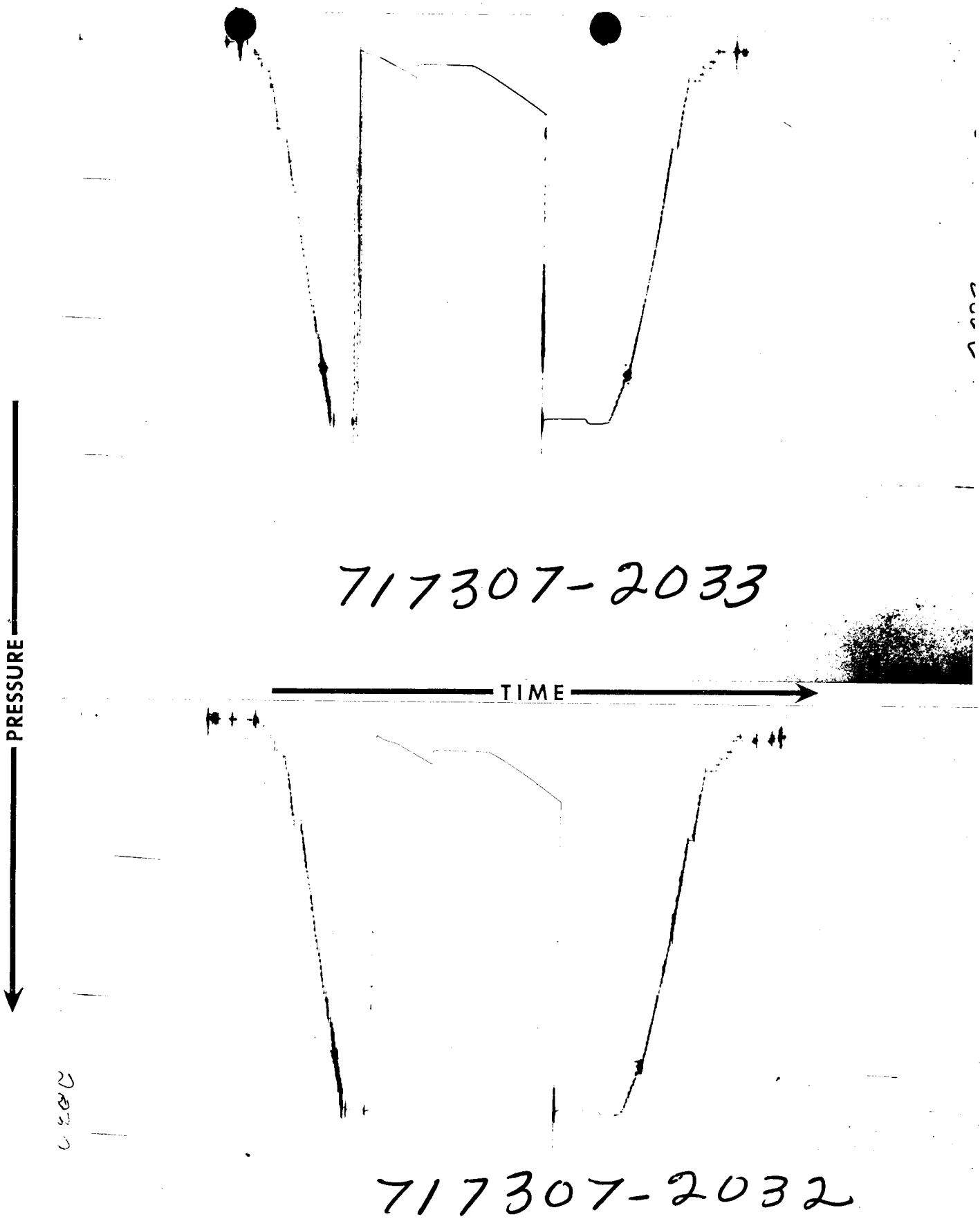
Date Time a.m. p.m.	Choke Size	Surface Pressure psi	Gas Rate MCF	Liquid Rate BPD	Remarks
900					On location
2200					Picked up tools
0030					Trip in hole with tools
0314					Opened tool with a light blow
0319					Light blow, bubble hose 2" into bucket.
0345					Closed tool with a decreasing blow
0445					Opened tool with no blow
0618					Closed tool with no blow
0818					Unseated packers, by tools
0900					Trip out of hole with tools

PRODUCTION TEST DATA

TICKET NO. 717307

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Drill Collars				
Reversing Sub	6.5"	3"	1'	
Water Cushion Valve				
Drill Pipe	4 1/2"	3.826"	5216'	
Drill Collars	7"	2 1/4"	444.0'	
Handling Sub & Choke Assembly				
Dual CIP Valve				
Dual CIP Sampler	5"	.87"	6.75'	5668.55'
Hydro-Spring Tester	5"	.75'	5.02'	5675.3'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	2.25 "	4.11'	5681.05'
Hydraulic Jar	5"	1.75"	5'	
VR Safety Joint	5"	1"	2.78'	
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1.53"	5.78'	5692.39'
Distributor				
Packer Assembly	6 3/4"	1.53"	5.83'	5704'
Flush Joint Anchor				
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case				
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor	6.5"	3"	1' Change over	
Drill Collars	6.5"	3"	1' Change over	
Flush Joint Anchor	5 3/4"	3.5"	25'	
Blanked-Off B.T. Running Case	5 3/4"	2.44"	4'	5766'
Total Depth				5769'

EQUIPMENT DATA



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

FLUID SAMPLE DATA

Sampler Pressure 65 P.S.I.G. at Surface
Recovery: Cu. Ft. Gas .025
cc. Oil
cc. Water 2400
cc. Mud
Tot. Liquid cc.
Gravity ° API @ °F.
Gas/Oil Ratio cu. ft./bbl.

	RESISTIVITY		CHLORIDE CONTENT
Recovery Water	@ °F.		ppm
Recovery Mud	2.59 @ 51 °F.		ppm
Recovery Mud Filtrate	@ °F.		ppm
Mud Pit Sample	2.64 @ 54 °F.		ppm
Mud Pit Sample Filtrate	@ °F.		ppm

Mud Weight 9.4 vis 45 sec.

Date 11-19-80 Ticket Number 728370
Kind of D.S.T. OPEN HOLE Halliburton Location FARMINGTON
Tester MR. AULD Witness MR. SLIGER
Drilling Contractor MR. PRUETT ALL WESTERN IC

EQUIPMENT & HOLE DATA

Formation Tested Lower Ismay
Elevation - Ft.
Net Productive Interval 29' Ft.
All Depths Measured From Kelly Bushing
Total Depth 6221' Ft.
Main Hole/Casing Size 8 3/8"
Drill Collar Length 601' I.D. 2.25"
Drill Pipe Length 5555' I.D. 3.826"
Packer Depth(s) 6188' - 6194' Ft.
Depth Tester Valve 6170' Ft.

Cushion TYPE AMOUNT Ft. Depth Back Pres. Valve Surface Choke 3/4" ADJ. Bottom Choke .75"

Recovered 1920 Feet of Mud
Recovered Feet of
Recovered Feet of
Recovered Feet of
Recovered Feet of

Meas. From Tester Valve

Remarks SEE PRODUCTION TEST DATA SHEET.

TEMPERATURE	Gauge No. 2033 Depth: 6174' Ft.	Gauge No. 2032 Depth: 6217' Ft.	Gauge No. Depth: Ft.	TIME (00:00-24:00 hrs.)
	12 Hour Clock	24 Hour Clock	Hour Clock	Tool Opened 07:33
Est. °F.	Blanked Off NO	Blanked Off YES	Blanked Off	
Actual 127 °F.	Pressures	Pressures	Pressures	Opened Bypass 13:33

		Field	Office	Field	Office	Field	Office	Reported Minutes	Computed Minutes
Initial Hydrostatic		2981	2971.7	3064	2993.3				
First Period Flow	Initial	53	53.3	66	72.9			—	—
	Final	240	243.9	252	255.9			30	
	Closed in	520	510.6	517	526.5			60	
Second Period Flow	Initial	333	327.9	358	348.8			—	—
	Final	547	519.9	544	535.8			90	
	Closed in	1025	1035.9	1045	1055.7			180	
Third Period Flow	Initial							—	—
	Final								
	Closed in								
Final Hydrostatic		2981	2971.7	2984	2993.3			—	—

Legal Location Sec. - Twp. - Rng. 22 - 36S - 26E
Lease Name BUG
Well No. 10
Test No. 2
Field Area BUG
Tested Interval 6194' - 6221'
County SAN JUAN
State UTAH
Lease Owner/Company Name WEXPRO COMPANY

FORM 181-R2 — PRINTED IN U.S.A.

FORMATION TEST DATA

LITTLE'S 111033 75C 2/80

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Casing perfs. _____ Bottom choke _____ Surf. temp. _____ °F Ticket No. 728370

Gas gravity _____ Oil gravity _____ GOR _____

Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F

INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED _____

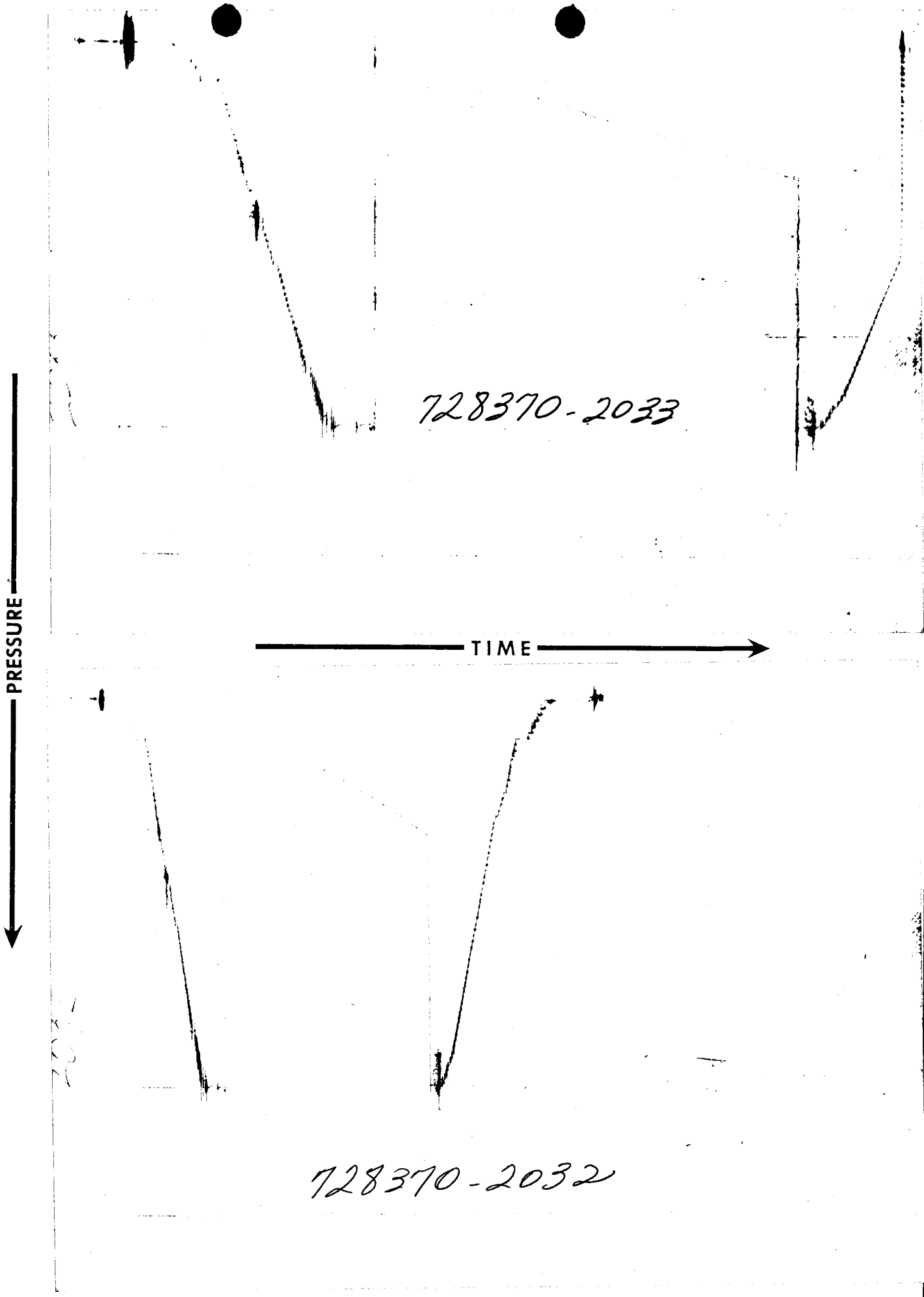
Date Time a.m. p.m.	Choke Size	Surface Pressure psi	Gas Rate MCF	Liquid Rate BPD	Remarks
02:12					On location.
02:20					Picked up tool.
04:20					Trip in.
07:33	BH	.5 oz.			Opened tool with very weak blow.
07:43	BH	1 oz.			
07:53	BH	1.25 oz.			
08:03	BH	1.5 oz.			Closed tool.
09:03	BH	3 oz.			Opened tool with very weak blow.
09:18	BH	4 oz.			
09:33	BH	5 oz.			
09:48	BH	6 oz.			
10:03	BH	7.5 oz.			
10:18	BH	10.25 oz.			
10:33	BH	15.75 oz.			Closed tool.
13:33					Opened bypass & trip out.
17:05					Out of hole.
20:30					Job complete.

PRODUCTION TEST DATA

TICKET NO. 728370

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Drill Collars				
Reversing Sub	6"	3"	1'	6126'
Water Cushion Valve				
Drill Pipe	4 1/2"	3.826"	5555'	
Drill Collars	7"-6"	2.25"	601'	
Handling Sub & Choke Assembly	6"	3"	1' X OVER	
Dual CIP Valve	5.03"	.87"	3'	6161'
Dual CIP Sampler	5"	2.75"	4'	6165'
Hydro-Spring Tester	5"	.75"	5'	6170'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	2.25"	4'	6174'
Hydraulic Jar	5.03"	1.75"	5'	
VR Safety Joint	5"	1"	3'	
Pressure Equalizing Crossover				
Packer Assembly	7 1/2"	1.53"	6'	6188'
Distributor				
Packer Assembly	7 1/2"	1.53"	6'	6194'
Flush Joint Anchor				
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case				
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor	5 3/4"	3.5"	23'	
Blanked-Off B.T. Running Case	5 3/4"	2.44"	4'	6217'
Total Depth				6221'

EQUIPMENT DATA



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

Form OGCC-3 SIOW

3

STATE OF UTAH

OIL & GAS CONSERVATION COMMISSION

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

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

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

2. NAME OF OPERATOR: Wexpro Company

3. ADDRESS OF OPERATOR: P. O. Box 1129, Rock Springs, Wyoming 82901

RECEIVED JAN 2 1981 DIVISION OF OIL, GAS & MINING

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: NE NW 610' FNL, 1986' FWL
At top prod. interval reported below: NE NW
At total depth

5. LEASE DESIGNATION AND SERIAL NO.: Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: -

7. UNIT AGREEMENT NAME: -

8. FARM OR LEASE NAME: Bug

9. WELL NO.: 10

10. FIELD AND POOL, OR WILDCAT: Bug

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: 22-36S-26E., SLB&M

API #: 43-037-30591

14. PERMIT NO.: 43-037-30591 DATE ISSUED: 8-29-80

12. COUNTY OR PARISH: San Juan

13. STATE: Utah

15. DATE SPUDDED: 10-5-80

16. DATE T.D. REACHED: 11-23-80

17. DATE COMPL. (*Ready to prod.*): 12-20-80

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*: KB 6623.30' GR 6608'

19. ELEV. CASINGHEAD: -

20. TOTAL DEPTH, MD & TVD: 6394

21. PLUG, BACK T.D., MD & TVD: 6344

22. IF MULTIPLE COMPL., HOW MANY*:

23. INTERVALS DRILLED BY: →

ROTARY TOOLS: 0-6394

CABLE TOOLS: -

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: 6320 - 6330', Desert Creek porosity

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: DIL, FDC/CNL, HDT

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
14		53.00	17-1/2	6 yds const. concrete	0
9-5/8	36	2,043.81	12-1/4	1100	0
5-1/2	17	6,393.89	8-3/8	420	0

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	6296.42	

31. PERFORATION RECORD (*Interval, size and number*): 6320-6330, jet, 2 holes per foot

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
6320-6330'	1500 gals 15% HCL
	10,000 gals cross linked 15% HCL

33.* PRODUCTION

DATE FIRST PRODUCTION: 12-14-80

PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*): Flowing

WELL STATUS (*Producing or shut-in*): SI

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
12/14-20/80	77-1/2	24/64	→				

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
160	560	→	57	150	0	2631:1

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*): Vented while testing.

TEST WITNESSED BY:

35. LIST OF ATTACHMENTS: Logs as above, Well Completion to be sent at a later date.

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

SIGNED Thomas Adams TITLE Director, Petroleum Engrg DATE 12-30-80

*(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.

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
Log tops:		
Morrison	0'	
Entrada	1,141	
Carmel	1,278	
Navajo	1,326	
Chinle	1,968	
Shinarump	2,726	
Cutler	2,973	
Honaker Trail	4,661	
Paradox	5,362	
Upper Ismay	5,822	
Lower Upper Ismay	6,011	
Lower Ismay Shale	6,071	
Lower Ismay Porosity	6,191	
B Zone	6,209	
Desert Creek	6,261	
Lower Bench	6,311	
Desert Creek Porosity	6,320	
Salt	6,396'	

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

WELL INSPECTION RECORD

NAME OF COMPANY: Wexpro

WELL NAME: Byg #10

SECTION: NE NW 22 TOWNSHIP: 36S RANGE: 26E COUNTY: San Juan

DATE: 1-8 1981 LOCATION INSPECTED

TOTAL DEPTH: _____ AT TIME OF VISIT

NAME OF DRILLING CONTRACTOR: All Western

RIG NUMBER: _____

COMMENTS:

The well has been completed and well head assembly mounted with production equipment on the site. The treater is venting into the reserve pond at this time (a temporary measure), and will eventually have its own pit. The reserve pond is line with a thin vinyl liner which doesn't appear to hold up very well. The pond is fenced and drying; a crew of roustabouts are cleaning the location and will probably move off the test equipment, tools, and casing.

This well will probably have gas lift plunger pump istalled to relieve gas surge problems.

DATE: _____ SIGNED: MTM M.T.M.

SEND TYPED COPY TO COMPANY: YES _____ NO _____

CORE ANALYSIS RESULTS FOR

WEXPRO COMPANY

BUG WELL NO. 10

BUG FIELD

SAN JUAN COUNTY, UTAH

RECEIVED

JAN 22 1981

DIVISION OF
OIL, GAS & MINING

CORE LABORATORIES, INC.

Petroleum Reservoir Engineering

DALLAS, TEXAS

NEXPRO COMPANY
BUG WELL NO. 10
BUG FIELD
SAN JUAN COUNTY

FORMATION : DESERT CREEK
DRLG. FLUID: CHEM/GEL
LOCATION : NE NW SEC 22-36S-26E
STATE : UTAH

DATE : 11-24-80
FILE NO. : RP-3-3039
ANALYSTS : GETZ
ELEVATION: 6623 KB

CONVENTIONAL CORE ANALYSIS--BOYLE'S LAW HELIUM POROSITY

SAMP. NO.	DEPTH	PERM. TO AIR (MD) HORZ.	VERTICAL	POR. B.L.	FLUID SATS. OIL	WATER	GR. DNS.	DESCRIPTION
	6300-6312							SHALE-NO ANALYSIS
	6312-6318							ANHYDRITE-NO ANALYSIS
	6318-6319							SHALE-NO ANALYSIS
1	6319-20	0.19	0.02	6.5	0.0	35.4	2.71	DOL BLK VF XLN SHL
2	6320-21	0.33	0.01	6.0	0.0	44.8	2.78	DOL BLK VF XLN S/SHL S/ANHY
3	6321-22	0.07		3.4	0.0	39.1	2.76	DOL BRN M XLN ANHY VUG RUBBLE
4	6322-23	4.9		5.7	0.0	32.4	2.81	DOL BRN M XLN ANHY VUG RUBBLE
5	6323-24	62	39	7.7	0.0	20.6	2.78	DOL BRN M XLN ANHY VUG
6	6324-25	7.0	5.1	8.5	1.4	28.8	2.81	DOL BRN M XLN ANHY VUG
7	6325-26	16	15	10.4	7.6	66.3	2.81	DOL BRN M XLN ANHY VUG
8	6326-27	6.2	5.4	8.7	6.5	49.1	2.81	DOL BRN M XLN ANHY VUG
9	6327-28	7.5	7.3	10.5	6.8	48.5	2.80	DOL BRN M XLN ANHY VUG
10	6328-29	10	6.3	7.6	3.0	50.7	2.79	DOL BRN M XLN ANHY VUG
11	6329-30	0.40	0.40	5.0	0.0	72.2	2.75	DOL BLK VF XLN SHL
12	6330-31	0.01		0.5	0.0	84.6	2.68	DOL BLK VF XLN SHL
13	6331-32	0.01		3.6	0.0	73.3	2.78	DOL BLK VF XLN SHL
14	6332-33	0.01		1.3	0.0	60.0	2.71	DOL BLK VF XLN SHL
15	6333-34	0.60		0.9	31.8	50.0	2.59	DOL BLK VF XLN SHL
16	6334-35	0.01		0.8	13.5	56.8	2.64	DOL BLK VF XLN SHL
17	6335-36	0.01		3.1	12.2	25.4	2.66	DOL BLK VF XLN SHL
18	6336-37	8.6	0.11	5.2	0.0	91.3	2.74	DOL BLK VF XLN SHL
19	6337-38	4.1	3.4	4.8	0.0	54.6	2.71	DOL BLK VF XLN SHL
20	6338-39	0.14	0.06	3.8	0.0	50.0	2.72	DOL BLK VF XLN SHL
21	6339-40	0.01		0.9	0.0	75.0	2.69	DOL BLK VF XLN SHL
22	6340-41	0.02		0.4	0.0	68.2	2.68	DOL BLK VF XLN SHL

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operations, or profitableness of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

NEXPRO COMPANY
BUG WELL NO. 10
BUG FIELD
SAN JUAN COUNTY

FORMATION : DESERT CREEK
DRLG. FLUID: CHEM/GEL
LOCATION : NE NW SEC 22-36S-26E
STATE : UTAH

DATE : 11-24-80
FILE NO. : RP-3-3039
ANALYSTS : GETZ
ELEVATION: 6623 KB

CONVENTIONAL CORE ANALYSIS--BOYLE'S LAW HELIUM POROSITY

SAMP. NO.	DEPTH	PERM. TO AIR (MD) HORZ.	VERTICAL	POR. B.L.	FLUID SATS. OIL	WATER	GR. DNS.	DESCRIPTION
23	6341-42	0.08	0.05	1.3	0.0	28.6		DOL BLK VF XLN SHL
	6342-6347							SHALE-NO ANALYSIS

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CORE LABORATORIES, INC. *Petroleum Reservoir Engineering*

COMPANY	WEXPRO COMPANY	FIELD	BUG	FILE	RP-3-3039
WELL	BUG WELL NO. 10	COUNTY	SAN JUAN	DATE	11-24-80
LOCATION	NE NW SEC 22-36S-26E	STATE	UTAH	ELEV.	6623 KB

CORE-GAMMA CORRELATION

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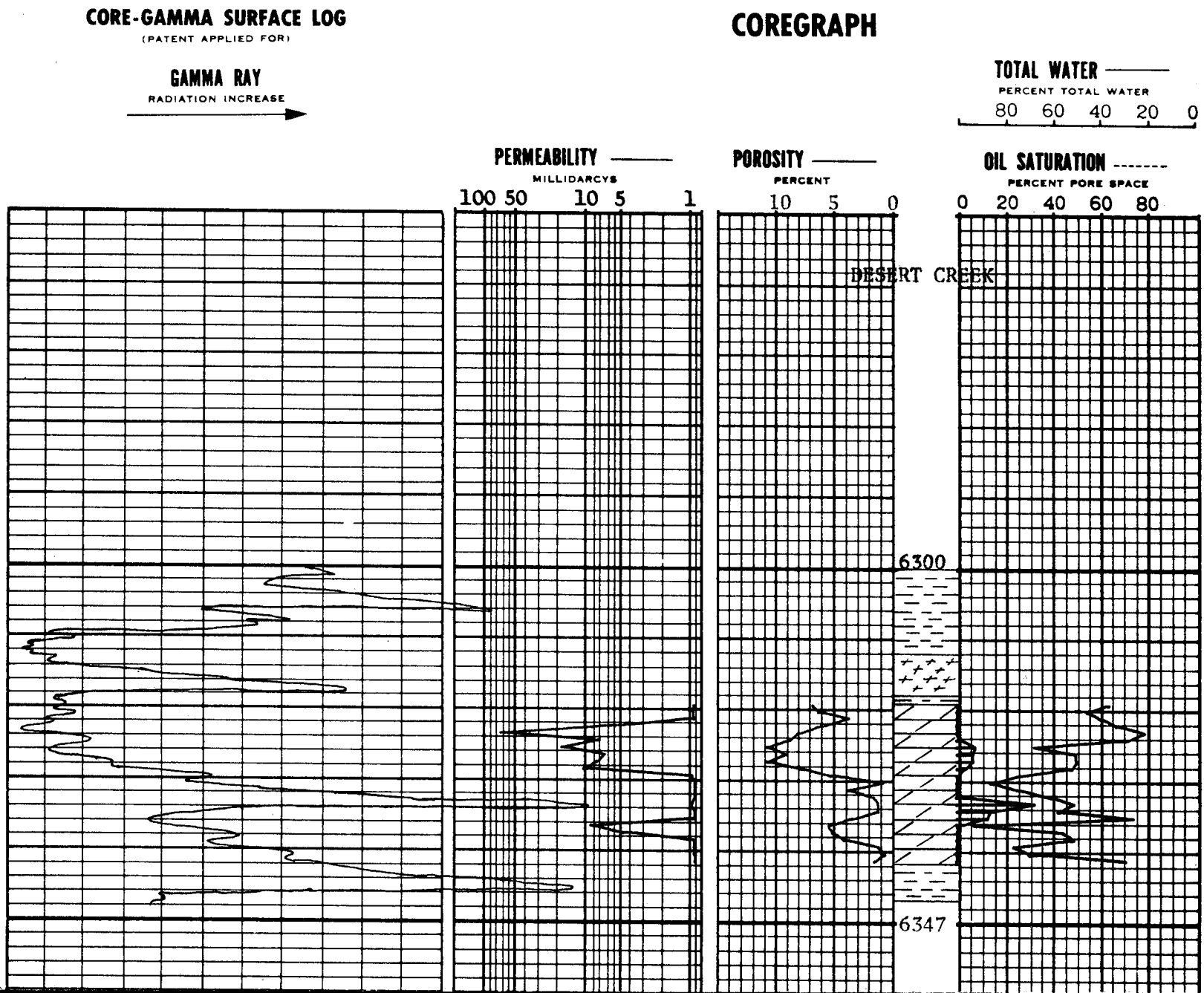
VERTICAL SCALE: 5" = 100'



CL-529

CORE SUMMARY AND CALCULATED RECOVERABLE OIL

FORMATION NAME AND DEPTH INTERVAL: DESERT CREEK 6319.0 - 6314.0 Feet

FEET OF CORE RECOVERED FROM ABOVE INTERVAL	5	AVERAGE TOTAL WATER SATURATION: PER CENT OF PORE SPACE	34.5
FEET OF CORE INCLUDED IN AVERAGES	5	AVERAGE CONNATE WATER SATURATION: PER CENT OF PORE SPACE	
AVERAGE PERMEABILITY: MILLIDARCYS	13.5	OIL GRAVITY: °API	
PRODUCTVE CAPACITY: MILLIDARCY-FEET	67.5	ORIGINAL SOLUTION GAS-OIL RATIO: CUBIC FEET PER BARREL	
AVERAGE POROSITY: PER CENT	5.9	ORIGINAL FORMATION VOLUME FACTOR: BARRELS SATURATED OIL PER BARREL STOCK-TANK OIL	
AVERAGE RESIDUAL OIL SATURATION: PER CENT OF PORE SPACE	0.0	CALCULATED ORIGINAL STOCK-TANK OIL IN PLACE: BARRELS PER ACRE-FOOT	

Calculated maximum solution gas drive recovery is barrels per acre-foot, assuming production could be continued until reservoir pressure declined to zero psig. Calculated maximum water drive recovery is barrels per acre-foot, assuming full maintenance of original reservoir pressure, 100% areal and vertical coverage, and continuation of production to 100% water cut. *(Please refer to footnotes for further discussion of recovery estimates.)*

INTERPRETATION OF DATA

6319.0 - 6324.0 Feet - Believed to be gas productive.
6324.0 - 6329.0 Feet - Interval has possibility of being oil productive. Thin zone.
6329.0 - 6342.0 Feet - Non-productive due to low permeability and porosity.

These recovery estimates represent theoretical maximum values for solution gas and water drive. They assume that production is started at original reservoir pressure; i.e., no account is taken of production to date or of prior drainage to other areas. The effects of factors tending to reduce actual ultimate recovery, such as economic limits on oil production rates, gas-oil ratios, or water-oil ratios, have not been taken into account. Neither have factors been considered which may result in actual recovery intermediate between solution gas and complete water drive recoveries, such as gas cap expansion, gravity drainage, or partial water drive. Detailed predictions of ultimate oil recovery to specific abandonment conditions may be made in an engineering study in which consideration is given to overall reservoir characteristics and economic factors.

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WEXPRO COMPANY

Bug Well No. 10

NE NW Section 22, T36S, R26E

San Juan County, Utah

RECEIVED
FEB 9 1981
DIVISION OF
OIL, GAS & MINING

Michael R. Fisher
Xpert Logging

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RESUME

Operator:	Wexpro Company
Well Name:	Bug Well No. 10
Area:	Paradox Basin, Bug Field
Location:	NE NW Section 22, T36S, R26E
County and State:	San Juan County, Utah
Total Depth:	Driller: 6,394' Logger: 6,397'
Elevations:	GL: 6,608' KB: 6,623'
1st Spud Date:	October 5, 1980 - drilled to 56' to fulfill agreement. waiting on BG Rig
2nd Spud Date:	October 27, 1980
Completion Date:	
Contractor:	Allwestern #3
Drawworks:	Unit U-15
Pumps:	#1 - Emsco D-550 Stroke 16" Liner 5" #2 - Emsco D-500 Stroke 16" Liner 5"
Tool Pusher:	Dale, Blood
Drilling Engineer:	Mike Sliger
Geologist:	Michael R. Fisher - Xpert Logging
Mudlogging:	Xpert Logging - Mike Fisher, Stuart Unger
Mud Company:	N. L. Baroid
Mud Engineer:	Tony Neuwirth - Solomon Garcia
Mud Type:	Water - Benex - Low Solids to 6,215' Gel - Chemical to 6,394'
Logs:	Schlumberger
Engineer:	Sharon Johnson
Hole Size:	12-1/4" surface to 2,071' 8-3/8" 2,071' to 6,394'
Casing:	9-5/8" USS 36/K55 set at 2,051' on November 2, 1980

Resume con't.

Drill Pipe:	4-1/2" ID 16.60/E
Logs:	DISFL 6,391' to 2,054' CNL/FDL/GR 6,395' to 2,054' Dipmeter - 6,394' to 4,480'

SUMMARY AND CONCLUSION

Wexpro Company Bug Well #10 was an attempt to explore the Southeastern extent of the recently discovered Bug Field located within the Paradox Basin.

Bug Well #10 was drilled to a total depth of 6,394'. Primary objectives of the well included testing production potential of the Ismay Zone and the porosity zone of the Desert Creek Lower Bench. Reservoir potential of the latter would be determined by a 60 foot core and a drill stem test. Drill stem tests were also planned for secondary objectives including two (2) in the Honaker Trail Formation and one in the lower Ismay porosity zone. All objectives were tested in the nearby Bug Well #4.

Steel line measurements were taken prior to all drill stem tests. The strap out taken before test #1 indicated that the pipe tally was off by +30.42' (5,793' - 5,763'). All depths listed in this report are based on a total depth of 6,394'.

The mudlogging unit and geologist commenced operations on November 8, 1980 at 4,000'. From this depth, drilling progressed on schedule with the contracted rig, Allwestern #3, experiencing mechanical but no hole problems.

Despite encountering numerous consolidated and unconsolidated sands responsible for drilling breaks in the Cutler Formation, no gas was recorded. Top of the Honaker Trail Formation was picked through correlation with the CNL/FDL/GR logs from Bug Well #4. The top of the formation normally picked at the first clean limestone occurs within a sandstone at 4,646'. No changes in background mud gas or component gas occurred throughout the Honaker Trail Foundation.

Top of the Paradox sequence occurred above massive limestones at 5,351'.

The first drill stem test was run on the interval of 5,734' to 5,799' as the first significant gas shows Nos. 6, 7, and 8 developed.

Show #6 occurred from 5,732' to 5,758' with a weak rise in gas associated with a minor drilling break. Show #7 had a sharper rise in gas peaking at 12 units from a 1 unit background. No drilling break was recorded. The last show related to the first test interval, #8 displayed a peak of 20 units mud gas in association with a 3 foot drilling break. Component gas included 3,700 ppm methane (C1) and 186 ppm ethane (C2). Despite exhibiting weak oil stain and cut from limestone cuttings, drill stem test #1 yielded very weak reservoir pressures, no gas to surface, and

Summary and Conclusion con't.

210' of mud and 60' of gas cut mud.

Drill stem test #2 was called for the lower Ismay porosity zone on the strength of shows #12 and #13. The interval of the second test ran from the top of show #12 at 6,192' to 6,221', 7' below the bottom of show #13. During show #12, mud gas rose from a background of 3.5 units to peak at 20 units, components includedmethane (C1), ethane (C2), and propane (C3). No oil was found upon examination of cutting samples which were limestone. Show #13 displayed a subdued 6 foot drilling break but recorded a significant peak in mud gas rising from 4.5 units background to 35 units. Cuttings gas from limestone samples caught before, during and after the show interval liberated steadily increasing amounts of gas. It was determined that the last sample consisted mostly of gaseous shale. Recordable levels of iso and normal-butane (IC4, IC5) were logged with the other components. 1,920' of uncut mud was recovered from drill pipe .025 cfg and 2,400cc uncut mud at 100 psi from the MFE tool. No gas to surface occurred during the initial or final opening of the tool. Halliburton engineers have determined that a leaking dual CIP valve in the tool affected the test. Both shut in pressure and flow period pressures are invalid. Total recovery was increased by leaking valve hydrostatic pressures are correct. The test was a misrun.

The top of the Desert Creek Formation was at 6,266'. Core point was chosen at 6,300', 12' above the Anhydrite marker for the porosity zone of the Desert Creek Lower Bench. This zone displayed high productivity potential and good vugular porosity in the core recovered from Bug Well #4. A dolomite exhibiting fair pinpoint to vugular porosity and oil stain, flourescence and cut was found at 6,320' to the bottom of core #1 at 6,325'. Due to jamming of the core at the bit and a subsequent loss of pump pressure, the core was pulled before gas from this porosity could circulate up. Core #2 was begun immediately after removal of core #1 in an effort to discover the extent of the porosity found in the part of the first core. Core #2 was cut from 6,325' to 6,347'. The porosity from the Desert Creek Zone occurred from 6,320' to 6,329'. The core exhibited vugular porosity, but no intercrystalline or matrix porosity. Trip gas recorded after coring resumed proved that there was gas feeding from the dolomite.

Summary and Conclusion con't.

Show #14 recorded during coring occurred 2 feeb below the porous dolomite of the Desert Creek. Elevated background gas levels were encountered due to the overlying porosity, but peaks of mud gas and components were the highest of the well. The lower part of the core pierced a dolomitic shale.

Drill stem test #3 was run immediately after recovery of core #2. Test interval was 28' from 6,319' to 6,347'. Initial flow yielded some weak pressure but no gas to surface. Gas did appear at surface 5 minutes after the tool was closed for initial shut in and was present immediately after opening the tool for final flow. Final estimates for gas production at the end of the 180 minute final flow was 24 Mcf per day. Samples reversed out through the flare line included some slightly gas cut, oil cut, and water cut mud. The MFE tool contained 3.835 cfg and 300 cc of gas cut, water cut, mud cut oil at 100 psi. This calculated out to a gas to oil ration of 2,029 cfg per bbl.

Total depth of Bug Well #10 is 6,394', the last foot having been drilled into salt.

It is believed that completion techniques may include acidizing the porosity zone of the Desert Creek Lower Bench, the well is currently in the initial stages of completion.

DAILY DRILLING RECORD

11-08-80

3,843 12:00a.m. Drlg 3/4 hrs

12:45 a.m.	Hole in pipe TOH
4:00 a.m.	Service rig check BOP
4:15 a.m.	TIH with Bit #6
6:15 a.m.	Wash 80 feet to bottom
7:00 a.m.	Drilling 1 hour
8:00 a.m.	Lube rig
8:15 a.m.	Drilling 8-1/4 hrs.
4:30 p.m.	Rig Service
4:45 p.m.	Drilling 7-1/4 hrs.

11-09-80

12:00 a.m.	Rig Service check BOP
12:15 a.m.	Drilling 7-3/4 hours
8:00 a.m.	Lube rig
8:15 a.m.	Drilling 7-3/4 hrs.
4:00 p.m.	Drilling 1/2 hours
4:30 p.m.	Rig Service check BOP
4:45 p.m.	Drilling 7-1/4 hours

11-10-80

12:00 a.m.	Rig service check BOP
12:15 a.m.	Drilling 7-3/4 hours
8:00 a.m.	Lube rig check BOP
8:15 a.m.	Drilling 7-3/4 hours
4:00 p.m.	Drilling 1-1/2 hours
5:30 p.m.	Circ. and drop survey
6:00 p.m.	TOH for bit
8:15 p.m.	TIH with bit #7

Daily Drilling Record con't.

11-10-80 con't.

10:15 p.m.	Wash 15' to bottom
10:30 p.m.	Drilling 1-1/2 hours

11-11-80

12:00 a.m.	Drilling 1/2 hour
12:30 a.m.	Rig service check BOP
12:45 a.m.	Drilling 7-1/4 hours
8:00 a.m.	Lube Rig
8:15 a.m.	Drilling 3-3/4 hours
12:00 p.m.	Service pumps
1:00 p.m.	Drilling 3 hours
4:00 p.m.	Drilling 1-1/2 hours
5:30 p.m.	Rig Service Check BOP
5:45 p.m.	Drilling 6-1/4 hours

11-12-80

12:00 a.m.	Drilling 1/2 hour
12:30 a.m.	Rig Service check BOP
12:45 a.m.	Drilling 1-1/2 hours
2:15 a.m.	Circ. Samples for Loggers
3:15 a.m.	Drilling 4-3/4 hours
8:00 a.m.	Lube Rig
8:15 a.m.	Drilling 3-3/4 hours
12:00 p.m.	Clean mud pits.
12:15 p.m.	Drilling 3-3/4 hours
4:00 p.m.	Rig service check BOP
4:15 p.m.	Drilling 7-3/4 hours

Daily Drilling Record con't.

11-13-80

12:00 a.m.	Drilling 2 hours
2:00 a.m.	Rig service check BOP
2:15 a.m.	Drilling 7-3/4 hours
8:00 a.m.	Lube rig, clean mud pits, check BOP
8:30 a.m.	Drilling 7-1/2 hours
4:00 p.m.	Drilling 1/4 hour
4:15 p.m.	Rig Service, Check BOP
4:30 p.m.	Drilling 7-1/2 hours

11-14-80

12:00 a.m.	Drilling 1/2 hour
12:30 a.m.	Circ. samples for loggers at 5,765'
2:30 a.m.	Work on pump
3:00 a.m.	T O H - slow
6:00 a.m.	T O H, look for hole, SLM 5,765'
8:00 a.m.	T O H, lay down stab and shock sub.
10:00 a.m.	Run D C in, lay down (2) 6" DC p.U. (1) 6", TIH
12:00 p.m.	Drilling 1-1/2 hours
1:20 p.m.	
3:00 p.m.	Circ, Carbide looking for hole in pipe.
4:00 p.m.	T O H for hole in D.C., lay down 3 D.C.
9:00 p.m.	Rig service, check BOP
9:15 p.m.	P.U. DST Tool

11-15-80

12:00 a.m.	TIH with DST #1
3:15 a.m.	Valve open, DST #1
3:45 a.m.	Valve closed

Daily Drilling Record con't.

11-15-80 con't.

4:45 a.m.	Valve open
6:15 a.m.	Valve closed
8:00 a.m.	Rig service
8:15 a.m.	Unseat packers
8:30 a.m.	Thaw out mud line
9:45 a.m.	T O H
1:00 p.m.	Lay down DST Tool
2:30 p.m.	Change oil in compound and Drwwks.
4:00 p.m.	Flush and change oil in compound and Drwwks.
5:00 p.m.	Rig service, check BOP
5:15 p.m.	T I H P.U. stab and shock sub. Lay down (2) 6" D C P.U. (6) 6" DC

11-16-80

12:00 a.m.	Rig service, check BOP
12:15 a.m.	Drilling 7-3/4 hours
8:00 a.m.	Rig service, check BOP
8:15 a.m.	Drilling 7-3/4 hours
4:00 p.m.	Drilling 2-1/2 hours
6:30 p.m.	Rig service, check BOP
6:45 p.m.	Drilling 5-1/4 hours

11-17-80

12:00 a.m.	Drilling 1/2 hour
12:30 a.m.	Rig service, check BOP
12:45 a.m.	Drilling 7-1/4 hours
8:00 a.m.	Drilling 1-1/2 hours
9:30 a.m.	Pump pill drop survey
10:00 a.m.	T O H

Daily Drilling Record con't.

11-17-80 con't.

12:30 p.m.	Service rig, Check BOP
1:00 p.m.	T I H
4:00 p.m.	Drilling 8 hours

11-18-80

12:00 a.m.	Rig service, check BOP
12:15 a.m.	Drilling 4-3/4 hours
5:00 a.m.	Work on Draw works Motors
5:45 a.m.	Drilling 1-1/4 hours
7:00 a.m.	Work on Drw Wks Motors
8:00 a.m.	Work on Drw Wks Motors
10:15 a.m.	Drilling 4-1/2 hours
2:45 p.m.	Circ. samples and gas for loggers at 6,221'
4:00 p.m.	Circ.
7:00 p.m.	T O H to D.C.
9:30 p.m.	Cut drilling line
10:00 p.m.	Finish T O H, lay down shock sub, and stab

11-19-80

12:00 a.m.	Work on tools - change Kelly Cock
2:30 a.m.	P.U. Tools and T I H with DST #2
7:00 a.m.	Make up tools, floor manifold
7:30 a.m.	Open valve, DST #2
8:00 a.m.	Close Valve
9:00 a.m.	Open valve
10:30 a.m.	Close valve
1:45 p.m.	Unseat packer
2:00 p.m.	T O H

Daily Drilling Record con't.

11-19-80 con't.

4:00 p.m.	Finish T O H
5:30 p.m.	Breakdown test tool lead out
7:30 p.m.	T I H
9:30 p.m.	Repair lights
10:30 p.m.	Finish T I H

11-20-80

12:00 a.m.	Finish T I H
1:00 a.m.	Rig service, check BOP
1:15 a.m.	Displace hole and pits with weighted mud
3:30 a.m.	Build volume and condition mud
5:00 a.m.	Drilling 3 hours
8:00 a.m.	Drilling 1 hours
9:00 a.m.	Rig service, check BOP
9:05 a.m.	Drilling 6-3/4 hours
4:00 p.m.	Drilling 1/2 hours
4:30 p.m.	Circ. and condition mud
7:00 p.m.	T O H
10:15 p.m.	P.U. Core barrell

11-21-80

12:00 a.m.	Shim inner core barrell makeup jars and bits
2:15 a.m.	T I H with core barrell
6:00 a.m.	Cut core 2 hours
8:00 a.m.	Coring 1/4 hour
8:15 a.m.	Rig service, check BOP
8:30 a.m.	Coring 3 hours
11:30 a.m.	T O H with core #1 25' (bit jammed)

Daily Drilling Record con't.

11-21-80 con't.

3:00 p.m.	Lay down core
4:00 p.m.	Core barrel maintenance
5:00 p.m.	T I H with core barrel for Core #2
8:00 p.m.	Coring 4 hours
	11-22-80
12:00 a.m.	Coring 1-1/2 hours
1:30 a.m.	T O H with core #2
4:15 a.m.	Recover 22' core, lay down core barrel
7:00 a.m.	P.U. DST tool for DST #3
8:00 a.m.	Make up tools for DST #3, TIH, 660' water cus
11:00 a.m.	Work on chain oiler
11:30 a.m.	T I H and set packer at 6,319'
1:00 p.m.	Valve opened
1:30 p.m.	Valve closed
3:30 p.m.	Valve opened
4:00 p.m.	Tool open
6:30 p.m.	Valve closed
10:30 p.m.	Unseat packer, wait on daylight to Rev. Circ.
	11-23-80
12:00 a.m.	Wait for daylight to Rev., Pull tool
6:00 a.m.	P.U. off bottom and Rev. Circ.
8:00 a.m.	Rig service
8:15 a.m.	Pump pill and T O H with DST #3
10:45 a.m.	Breakdown tools and lead out
12:45 p.m.	T I H with bit RR #8
1:30 p.m.	Cut drilling line 75', set crownamatic
2:30 p.m.	T I H with bit RR #8
4:00 p.m.	Finish T I H
5:30 p.m.	Work on pump
6:00 p.m.	Drilling 6 hours
	11-24-80
12:00 a.m.	Drilling TD @6,395' - 1/2 hour
12:30 a.m.	Circ. and condition mud
3:00 a.m.	T O H for logs

DAILY DRILLING DEPTHS

Date	12A Depth	6A Depth
November 08, 1980	3,802	-----
November 09, 1980	4,200	4,329
November 10, 1980	4,679	4,755
November 11, 1980	4,915	4,994
November 12, 1980	5,206	5,288
November 13, 1980	5,501	5,577
November 14, 1980	5,754 (SLM Correction -30.42')	5,762
November 15, 1980	5,762	5,769
November 16, 1980	5,769	5,825
November 17, 1980	5,991	6,062
November 18, 1980	6,121	6,162
November 19, 1980	6,221	6,221
November 20, 1980	6,221	6,229
November 21, 1980	6,300	6,300
November 22, 1980	6,339	6,347
November 23, 1980	6,347	6,347
November 24, 1980	6,382	6,394 Total Depth

DRILLING PARAMETERS

Depth	WOB	RPM	PP	SPM	PUMP #
to 3,843	40	60	1,300	60	2
to 4,021	40	75	1,200	60	2
to 4,230	40	65	1,300	60	2
to 4,390	40	60	1,300	60	2
to 4,558	40	70	1,200	60	2
to 4,709	40	65	1,300	60	2
to 4,804	40	60	1,300	60	2
to 4,908	40	65	1,200	60	2
to 4,935	40	60	1,100	60	2
to 4,945	35/40	70	1,600	60	2
to 4,965	40	60	1,500	60	2
to 4,998	40	60	1,500	50	1
to 5,040	40	70	1,500	60	2
to 5,124	40	70	1,200	60	2
to 5,236	40	70	1,500	60	2
to 5,336	40	70	1,500	60	2
to 5,424	40	70	1,400	61	2
to 5,531	40	70	1,500	60	2
to 5,627	40	70	1,500	60	2
to 5,710	40	70	1,400	60	2
to 5,764	40	70	1,400	60	2
to 5,784	40	60	500	60	1
to 5,793	40	70	1,000	60	2
to 5,769	40	70	1,000	60	2
to 5,805	40	60	1,400	60	2
to 5,844	40	60	1,400	60	2
to 5,919	40	60	1,500	60	2
to 5,977	40	60	1,400	60	2
to 5,991	40	60	1,400	62	1
to 6,074	40	60	1,300	60	1
to 6,090	40	60	1,500	60	1
to 6,121	40	40	900	49	1
to 6,175	40	60	1,400	60	2
to 6,221	40	60	1,500	60	2
to 6,240	40	60	1,500	60	2

Drilling Parameters con't.

Depth	WOB	RPM	PP	SPM	PUMP #
to 6,266	40	60	1,600	60	2
to 6,268	40	60	1,200	60	1
to 6,294	40	60	1,600	60	2
to 6,300	40	60	1,500	60	1
to 6,308	25	50	1,500	58	2
to 6,325	25	50	1,500	58	2
to 6,339	25	50	1,400	54	1
to 6,347	25	50	1,500	58	2
to 6,394	40	60	1,400	60	2

BIT RECORD

Bit #	Co.	Type	Size	Depth Out	Footage	Hrs.	Wt.	RPM	Dev.	PP	Size LNR/SPM	
1	STC	F2	12-1/4"	452'	398'	37-3/4	30/35	60/80	1/4°	800	-------	
2	Reed	FP-51J	12-1/4"	1,725'	1,271'	34-1/2	40/45	80	1°	1,100	5½/5	60/54
3	STC	F2	12-1/4"	2,071'	348'	11-1/2	40	80	1°	1,100	5½/5	60/54
4	SEC	S86F	8-3/8"	2,971'	900'	28-3/4	35/40	60	--	1,100	5/60	
5	SEC	S88F	8-3/8"	3,843'	872'	34-1/2	40	60	--	1,200	5/60	
6	SEC	S88F	8-3/8"	4,935'	1,092'	56-3/4	40	60	--	1,200	5/60	
7	SEC	S88F	8-3/8"	5,793'	858'	69-1/4	40	70	--	1,500	5/60	
Strap Correc		-30.42'	5,765'	5,769								
RR #5	SEC	S88F	8-3/8"	6,090	6'	1-1/2	40	70	--	700	5/60	
RR #5	SEC	S88F	8-3/8"	6,221	321'	32-1/4	40	60	1/4°	1,500	5/60	
#8	SEC	S88F	8-3/8"	6,300	131'	18-1/4	40	60	--	1,500	5/60	
RR #8	SEC	S88F	8-3/8"	6,347	79'	21-1/4	40	60	--	1,600	5/60	
CORE #1	CHRIST	MC23	8-3/8"	6,395	47'	9-1/4	15/25	50	--	1,400	5/60	
RR #8	SEC	S88F	8-3/8"		52'	6-1/2	40	60	3/4°	1,400	5/60	TD

MUD RECORD MUDDED UP AT 6,215' ON 11-20-80

DATE	DEPTH	WT.	F.VIS.	P.VIS.	YIELD	GEL STRNT	PH	FILTR	CK.	ALKA.	SALT	CHLO	CALCIUM	GYP / SAND	SOLID / % WTR.	CUM. COST
11-8	3,939	8.33	27					H20				700	80		0/100	
11-9		8.7	32	5	2	3/7	10	19	1/32	.3/.65		700	40	TR	2.9/97.1	
11-10	4,790	8.9	32	5	2	1/2	8	18	1/32	0/.2		930	60	TR	4/96	
11-11	5,008	9.1	32	6	1	0/5	10	14.2	2/32	.12/.32		700	TR	TR	5/95	
11-12	5,299	9.3	34	7	1	1/7	10	15	2/32	.15/.35		800	TR	TR	5/95	
11-13	5,587	9.4	33	9	1	3/8	9	14	2/32	.05/.12		700	TR	TR	5/95	
11-14	5,763	9.2	33	6	1	2/10	9	15.2	2/32	.1/.35		700	TR	TR	5/95	
11-15																
11-16	5,830	9.1	33	7	3	1/3	9	12	2/32	.08/.15		700	TR	TR	5/95	
11-17	6,066	9.3	40	7	8	3/8	11	10.2	2/32	.25/.60		700	28	TR	6/94	
11-18	6,175	9.4	45	10	20	15/28	11	18	2/32	.25/.60		800	320	TR	7/93	
11-19																
11-20	6,240	10.9	42	20	6	8/20	9.8	16	2/32	.08/.13		4000	560	TR	18/82	
11-20	6,240	11.3	40	14	10	5/14	9.5	10	2/32	.08/.15		2800	312	1/2	20/80	
11-21	6,390	11.5	42	20	15	10/18	10	9.6	2/32	.03/.08		2000	400	1/2	21/79	
11-22	6,347	11.5	37	17	8	13/25	10	13.2	2/32	.06/.12		1900	480	1/2	21/79	
11-23	6,347	11.4	38	15	10	10/25	10	11.2	2/32	.1/.3		1900	400	1/4	21/79	
11-24	6,394	11.5	55	20	18	10/18	10	12.8	2/32	.1/.3		6000	440	1/2	22/78	

CORRELATION

Formation	Bug #10 Depth	Datum	Bug #4 Depth	Datum
Honaker Trail	4,643'	+1,980'	4,640'	+1,980'
Paradox	5,348'	+1,275'	5,350'	+1,270'
Upper Ismay	5,832'	+ 791'	5,820'	+ 800'
Lower Upper Ismay	6,010'	+ 613'	6,000'	+ 620'
Lower Ismay Shale	6,066'	+ 557'	6,055'	+ 565'
Lower Ismay Porosity	6,194'	+ 429'	6,175'	+ 445'
"B" Zone Shale	6,216'	+ 407'	6,195'	+ 425'
Desert Creek	6,266'	+ 357'	6,250'	+ 370'

CORE #1 DESCRIPTION

Desert Creek Formation Interval: 6,300' - 6,325' - Full Recovery.

6,300-6,301	SH, bik, sft-frm, fis-shfis, calcite veinlets, calcareous.
6,301-6,302	SH, blk, frm-hd, mas, dns, calcareous.
6,302-6,303	SH, blk-dkgy, sft-frm, mas, ans, calcareous.
6,303-6,304	DOL, blk-dkgybrn, sft-frm, micxln, calcareous, fr brn o stn, tr dol gn-blgn flor cut, NF, mica.
6,304-6,305	DOL, blk-dkgybrn, sft-frm, micxln, sl-mod calcareous, mica, p-fr brn o stn, tr-p dif cut, NF.
6,305-6,306	SH, blk-mgy, frm-hd, mas, dns, n-cl calcareous, dol, NSFOC.
6,306-6,307	SH, blk, sft, fis-sbfis, sl-mod calcareous, dol, NSFOC.
6,307-6,308	SH, blk, sft, fis-sbfis, sl-mod calcareous, sl-mod dol, NSFOC.
6,308-6,309	DOL, dkgy-dkbrn, frm-hd, mic-crpxln, sl calcareous, mica, tr brn o stn, NFOC, n intxln Ø.
6,309-6,310	DOL, dkgybrn, frm-hd, crp-micxln, sl calcareous, mica, tr-p brn o stn, NFOC, n intxin Ø.
6,310-6,311	DOL, dkgy, sft-frm, crp-micxln, sl calcareous, mica, sl tr brn o stn, NFOC, n intxln Ø.
6,311-6,312	DOL, gybrn, sft-frm, crp-micxln, sl calcareous, mica, p-fr brn o stn, NFOC, n intxln Ø.
6,312-6,313	DOL, mgybrn, sft-frm, crp-micxln, sl calcareous, mica, p-fr brn o stn, NFOC, n intxln Ø.
6,313-6,314	DOL, gybrn, sft-frm, crp-micxln, sl calcareous, occ m ca, p-fr brn o stn, NFOC, n intxln Ø.

Core #1 Description con't.

6,314-6,315	ANHY, clr, hd, xln.
6,315-6,316	ANHY, clr, hd, xln.
6,316-6,317	ANHY, clr, hd, xln.
6,317-6,318	ANHY, clr, hd, xln.
6,318-6,319	DOL, blk-dkgy, sft-frm, fis, sl-mod dol, NSFOC.
6,319-6,320	DOL, brn-brngy, frm-hd, micxln, mod arg, gbrn o stn, tr-fr blgn-dul gn flor, NF, n intxln Ø, sme p-p Ø
6,320-6,321	DOL, ltbrn-tan, hd, micxln, suc, sl-mod arg, g brn o stn, tr-fr blgn-dulgn flor, fr dif blgn flor cut, sme vug-p-p Ø.
6,321-6,322	DOL, ltbrn, hd, mic-crpxln, sl-mod arg, vg-ax brn and blk o stn, fr lgr flor, r-fr dif blgn flor cut, g p-p v-vug Ø, occ ANHY void fill.
6,322-6,323	DOL, lt-brn, hd-crpxln, sl-mod arg, fr-g brn o stn, g blgn flor, p-fr dif blgn flor cut, g p-p Ø-vug Ø, occ ANHY frac fill.
6,323-6,324	DOL, lt-brn, hd, crpxln, sl-mod arg, fr-g brn o stn, g blgn, flor, p-fr dif blgn flor cut, g p-p Ø-vug Ø, sme ANHY void fill.
6,324-6,325	DOL, lt-m brn, hd, crpxin occ micsuc, gl-mod arg, g-vg brn o stn, g blgn flor, p stn g dif blgn flor out, p-p Ø-vug Ø.

CORE #2 DESCRIPTION

Desert Creek Formation Interval: 6,325' - 6,347' - Full Recovery.

6,325-6,326	DOL, lt brn, frm-hd, crpxln/sme suc, sl mod arg, g brn o stn, g yelgn-blgn flor, p stmg-vg dif blgn-yelgn cut, p-p Ø-vug Ø/occ frac, sm xln ANHY void and frac fill.
6,326-6,327	DOL, ltbrn, frm-hd, crpxln/sme micsuc, sl-mod arg, g brn-dkbrn o stn, g flor, p stmg-g dif cut, n intxln Ø sme n-p Ø-vug Ø.
6,327-6,328	DOL, brn, frm-hd, crpxln-suc, sl-mod arg, g brn o stn, g-vg blgn flor, vp stmg-fr sif cut, n intxln Ø, p-p Ø-vug Ø.
6,328-6,329	DOL, lt brn, frm-hd, crpxln, sl-mod arg, g brn o stn, fr blgn-yelgn flor, fr dif flor cut, fr vug Ø.
6,329-6,330	DOL, gybrn, hd, crpxin, p-fr brn ostn, tr blgn flor, NC, n Ø.
6,330-6,331	DOL, gybrn, hd, crpxln, p-fr brn o stn, NSOC, tr p-p Ø n intxin or vug Ø
6,331-6,332	DOL, gybrn, hd, crpxln, p-fr brn o stn, NSOC, n ø.
6,332-6,333	DOL, gybrn, hd, crpxln, p-fr brn o stn, NFOC, n Ø.
6,333-6,334	SH, blk, sft-frm, fis-sbfis, sl-mod dol, NSFOC.
6,334-6,335	SH, blk, sft-frm, fis-sbfis, sl-mod dol, mica, NSFOC.
6,335-6,336	DOL, brngy, frm-hd, crpxln, sl-mod arg, p brn o stn, NFOC, n intxln p-p vug Ø.
6,336-6,337	DOL, brngy, frm-hd, crp-micxln, sl-mod arg, p brn o stn, NFOC, n Ø, sme intbd ANHY, cir, hd, xlp.
6,337-6,338	DOL, dkgybrn, frm-hd, crp-micxln, sl-mod mrg, p brn o stn, NFOC, n Ø.
6,338-6,339	DOL, dkgybrn, frm-hd, crp-micxln, sl-mod arg, g brn o stn, NFOC, n Ø.
6,339-6,340	DOL, dkgybrn, frm-hd, crp-micxln, sl-mod arg, p brn, o stn, NFOC, n Ø.

Core #2 Description con't.

6,340-6,341	DOL, dkgybrn, frm-hd, crp-micxln, sl-mod arg, p-vp brn o stn, NFOC, n Ø.
6,341-6,342	SH, dkgybrn, frm, mas, ans, mica, v dol, NSFOC grdg to arg DOL.
6,342-6,343	SH, dkgybrn, frm, mas, ans, mica, v dol, NSFOC, grdg to arg DOL.
6,343-6,344	SH, dkgybrn-blk, sft-frm, fis-sbfis, mod-v dol NSFOC.
6,344-6,345	SH, dkgybrn-blk, sft-frm, fis, mod-v dol, NSFOC.
6,345-6,346	SH, blk, sft, fis-sbfis, mod-v dol, sl-mod calc, tr fos, NSFOC.
6,346-6,347	SH, blk-dkgybrn, sft, fis-sbfis, mod dol, mod calc, tr fos, NSFOC.

DRILL STEM TEST

WELL: Bug Well #10 DATE: 11-14&15-80

TEST: DST #1 FORMATION: Paradox/Lower Honaker WITNESS: Michael Fisher

REASON: Triple show through 5,732-5,792 Trail. NOTE: Steel Line measure shows correction of minus 30.42'

INTERVAL: 5,734 - 5,799 T.D. 5,799

TESTING CO.: Halliburton - G. Freidline: Tester

TYPE TEST: Conventional open hole two packer. Packer pts. 5,726, 5,732

CUSHION: None

I. FLOW: 2" blow decreasing in 15 min. to negligible. NGTS.

F. FLOW: No blow. NGTS.

GAUGES

I. FLOW OPEN 30 MIN.

GTS NGTS

_____ Mcf _____ min.

_____ Mcf _____ min.

_____ Mcf _____ min.

_____ Mcf _____ min.

F. FLOW OPEN 90 MIN.

GTS NGTS

_____ Mcf _____ min.

_____ Mcf _____ min.

_____ Mcf _____ min.

_____ Mcf _____ min.

_____ Mcf _____ min.

_____ Mcf _____ min.

_____ Mcf _____ min.

_____ Mcf _____ min.

RECOVERY: 270 feet total mud including 210 feet mud, 60 feet GCM.

SAMPLE CHAMBER: 0 cfg and 1850cc Mud @ 0 psi

	TOP CHART	TIME	BOTTOM CHART
IH:	2,941		2,784
IF:	27 - 107	30 min.	107 - 159
ISI:	240	60 min.	292
FF:	160 - 160	90 min.	199 - 199
FSI:	480	120 min.	530
FH:	2,941		2,784

BHT 128 °F

SAMPLES CAUGHT: Gas ( ) Oil ( ) Water ( ) Mud (x)

WHERE CAUGHT: Drill pipe (x) Flow Line ( ) Separator ( ) MFE Tool (x)

RESISTIVITIES @ ~~XXX~~ given temp.

PIT MUD: 2.89 @ 77°F. FILTRATE: 1.86 @ 78°F.

REC. MUD: _____. REC. WTR: _____.

TOP 2.83 at 76F

Bottom 2.37 at 73 F

REMARKS: Chlorides: pit mud 1,428 ppm
Sampler 1428 ppm, rec top 952ppm
Rec bottom 1428 ppm

NOTE: resistivities and chloride conc. questionable.

~~CHART PICTURE ON BACK~~

DRILL STEM TEST

WELL: Bug Well #10 DATE: 11-19-80

TEST: DST #2 FORMATION: Lower Ismay Ø WITNESS: Michael Fisher

REASON: Triple show through interval 6,190 - 6,214, including 16.5 units increase and 30.5 units increase

INTERVAL: 6,192 - 6,221 T.D. 6,221'

TESTING CO.: Halliburton - D. Auld, D. Pruett: Testers

TYPE TEST: Conventional open hole two packer. Packer pts. 6,186, 6,192

CUSHION: None

I. FLOW: Open with very weak blow, NGTS

F. FLOW: Open with very weak blow slowly increase in 90 min. to 16 ounces, NGTS.

GAUGES

I. FLOW OPEN 30 MIN.

GTS NGTS

_____ Mcf _____ min.

_____ Mcf _____ min.

_____ Mcf _____ min.

_____ Mcf _____ min.

F. FLOW OPEN 90 MIN.

GTS NGTS	_____ Mcf _____ min.	
_____ Mcf _____ min.	_____ Mcf _____ min.	
_____ Mcf _____ min.	_____ Mcf _____ min.	
_____ Mcf _____ min.	_____ Mcf _____ min.	
_____ Mcf _____ min.	_____ Mcf _____ min.	

RECOVERY: 1,920 feet mud. (wt. 9.3)

SAMPLE CHAMBER: .025 cfg and 2400 cc mud (wt. 9.1) @ 65 psi

	TOP CHART	TIME	BOTTOM CHART
IH:	2,981		3,064
IF:	53 - .240	30 min.	66 - 252
ISI:	520	60 min.	517
FF:	333 - 547	90 min.	358 - 544
FSI:	1025	180 min.	1,045
FH:	2,981		2,984

BHT 127 °F

SAMPLES CAUGHT: Gas ( ) Oil ( ) Water ( ) Mud (X)

WHERE CAUGHT: Drill pipe (X) Flow Line ( ) Separator ( ) MFE Tool (X)

RESISTIVITIES @ ~~XXX~~ given temp.

Sampler CL: 1812 ppm

PIT MUD: 2.64 (wt. 9.4) CL: 1636 54F FILTRATE: 2.59 (wt. 9.1) 51F

REC. MUD: 2.47 (wt. 9.3) CL: 1636 58F REC. WTR: xxxxx

REMARKS: Misrun due to faulty valve on MFE tool. Monitoring gas during FF: 6 unit gas, trace methane (Cl) Note: FSI increased to 180 min to determine pressure of tight formation. Resistivities & chlorides questionable.

CHART PICTURE ON BACK

DRILL STEM TEST

WELL: Bug Well #10 DATE: 11-22-80

TEST: DST #3 FORMATION: Desert Creek Ø WITNESS: Michael Fisher

REASON: to test 9' porosity found in core from 6,320 - 6,329' that appeared as 20 unit increase in background gas.

INTERVAL: 6,319 - 6,347' T.D. 6,347'

TESTING CO.: Halliburton - G. Fredidline: Tester

TYPE TEST: Conventional open hole two packer. Packer pts. 6,313 - 6,319

CUSHION: 660 foot water

I. FLOW: open with light blow, 6 oz. in 5 min., to bottom of bucket in 6 min., 10 oz. in 10 min., 11 oz. in 15 min., 11 oz. in 20 min., close tool at 30 min., GTS in 5 min., after tool closed.

F. FLOW: open tool with blow to bottom of bucket, 5psi in 5 min., change surface choke due to leak at 25 min., open 3/4 in. choke at 30 min. install 1/4 inch plate in merla test tool at 55 min., see gauges.

GAUGES

I. FLOW OPEN 30 MIN.

GTS NGTS

	Mcf		min.		
	Mcf		min.		
	Mcf		min.		
	Mcf		min.		

F. FLOW OPEN 185 MIN.

GTS	Immediately			16	Mcf	55	min.
19	Mcf	70	min.	20	Mcf	85	min.
21	Mcf	100	min.	22	Mcf	115	min.
23	Mcf	130	min.	23	Mcf	145	min.
24	Mcf	160	min.	24	Mcf	180	min.

RECOVERY: Reversed out samples - taken from flare line, no FTG due to lack of stroke counter on rig

SAMPLE CHAMBER: 3.835 cfg and 300cc WC/GC/MC oil @ 100 psi

2029 CFG/BBL oil: Ratio

	TOP CHART	TIME	BOTTOM CHART
IH:	3801		3847
IF:	253 - 293	30 min.	265 - 292
ISI:	3383	120 min.	3395
FF:	187 - 267	185 min.	199 - 292
FSI:	3316	240 min.	3342
FH:	3747		3794

BHT 138 °F

SAMPLES CAUGHT: Gas (X) Oil (X) Flare Water (X) Mud (X)

WHERE CAUGHT: Drill pipe (X) Flow Line (X) Separator (__) MFE Tool (X)

RESISTIVITIES @ ~~68°~~ Given Temp.
CL: 7250ppm
PIT MUD: .805 . FILTRATE: (WT. 11.2)
(wt. 11.6) 71 F
MID TOP REC. MUD: 1700 . ~~REC.~~ TOP 1.26 @70F
(wt. 10.7) 72F (wt. 9.8)
BOTTOM: .055 @71F (wt. 10.t)

REMARKS: FSI at 6:35p.m. 11-22, pull pkrs. loose at 10:35pm. 11-22, let tool hang until daylight, pipe moved every half hour. Reverse out at 6a.m. 11-23. See back for rec. mud chloride conc.

~~CHART PICTURE ON BACK~~

SHOW REPORT

WELL Bug Well #10 AREA Bug CO. San Juan STATE Utah

SHOW NO. 1 from 5,468 to 5,471 P.T.D. 5,623

DRILLING BREAK - from None to ' . GROSS 3 ft, NET _____ ft.

LITHOLOGY: Type - SS LS DOLO SH SLTSTN OTHER _____
% ( ) (10) (75) ( ) ( )
Remarks _____

POROSITY: (Matrix) Est. % 6-7
(Fracture) Evidence for fracturing None

STAIN: Even, Patchy, Pin Point, _____ (Other)
Light, Dark, "Live", "Dead"
% in total cuttings _____ ;% in prob. reservoir lithology _____
Stain on fracture faces _____

FLUORESCENCE: Color None ; % in total ctgs _____

CUT (Chlorothene): None

PERIOD	DT	MUD GAS UNITS	CUTTINGS GAS UNITS	GAS CHROMATOGRAPH C_1	C_2	C_3	C_4	C_5	C_6	CO_2	Etc.
Before	5	5	----	100	----	----	----	----	----	----	----
During	5	10	-----	600	----	----	----	----	----	----	----
After	4-4.5	5	-----	100	----	----	----	----	----	----	----

RECOGNIZED BY: Stuart Unger Time 6:40 ~~A.M.~~ P.M. Date 11-12-80

CALLED G. Martin Time 8 ~~P.M.~~ A.M. Date 11-13-80

REMARKS:
Insignificant short duration. - MRF.

SHOW REPORT

WELL Bug Well #10 AREA Bug CO. San Juan STATE Utah

SHOW NO. 2 ~~from~~@5,485 to _____ P.T.D. --------

DRILLING BREAK - from 5,480 to 5,492. GROSS 12 ft, NET 6 ft.

LITHOLOGY: Type - SS LS DOLO SH SLTSTN OTHER _____
% ( ) (70) (20) ( ) ( )
Remarks _____

POROSITY: (Matrix) Est. % 6-8
(Fracture) Evidence for fracturing _____

STAIN: Even, Patchy, Pin Point, _____ (Other)
Light, Dark, "Live", "Dead"
% in total cuttings 35 ;% in prob. reservoir lithology _____
Stain on fracture faces _____

FLUORESCENCE: Color NF ; % in total ctgs -------

CUT (Chlorothene): NC

PERIOD	DT	MUD GAS UNITS	CUTTINGS GAS UNITS	GAS CHROMATOGRAPH C_1	C_2	C_3	C_4	C_5	C_6	CO_2	Etc.
Before	3.5	5	-------	--	------	------	------	------	------	------	
During	1.5	7	-------	700	------	------	------	------	------	------	
After	2.5	4	------	---	------	------	------	------	------	------	

RECOGNIZED BY: Stuart Unger Time 7:00 ~~A.M.~~ P.M. Date 11-12-80

CALLED G. Martin Time 8 ~~P.M.~~ A.M. Date 11-13-80

REMARKS:
Insignificant increase in background gas - MRF.

SHOW REPORT

WELL Bug Well #10 AREA Bug CO. San Juan STATE Utah

SHOW NO. 3 ~~XXXXX~~@5,502' to _____ P.T.D. ------

DRILLING BREAK - from None to ' . GROSS 1 ft, NET ---- ft.

LITHOLOGY: Type - SS LS DOLO SH SLTSTN OTHER _____
% ( ) (90) ( ) ( ) ( )
Remarks _____

POROSITY: (Matrix) Est. % 5
(Fracture) Evidence for fracturing None

STAIN: Even, Patchy, Pin Point, _____ (Other)
Light, Dark, "Live", "Dead"
% in total cuttings _____ ;% in prob. reservoir lithology _____
Stain on fracture faces _____

FLUORESCENCE: Color NF ; % in total ctgs _____

CUT (Chlorothene): NC

PERIOD	DT	MUD GAS UNITS	CUTTINGS GAS UNITS	GAS CHROMATOGRAPH C_1	C_2	C_3	C_4	C_5	C_6	CO_2	Etc.
Before	4	4	---------	---	---	---	---	---	---	---	---
During	4	5	--------	400	---	---	---	---	---	---	---
After	5	2-3	----------	---	---	---	---	---	---	---	---

RECOGNIZED BY: Mike Fisher Time 5 ~~XXX~~ A.M. Date 11-13-80

CALLED G. Martin Time 8:30 ~~XXX~~ A.M. Date 11-13-80

REMARKS:
Insignficant rise in gas. - MRF.

SHOW REPORT

WELL Bug Well #10 AREA Bug CO. San Juan STATE Utah

SHOW NO. 4 from 5,608 to 5,610 P.T.D. ----------

DRILLING BREAK - from NONE to ' . GROSS 2 ft, NET ---- ft.

LITHOLOGY: Type - SS LS DOLO SH SLTSTN OTHER
% ( ) (45) (40) ( ) ( )
Remarks

POROSITY: (Matrix) Est. % 7-10
(Fracture) Evidence for fracturing None

STAIN: Even, Patchy, Pin Point, (Other)
Light, Dark, "Live", "Dead"
% in total cuttings 30 ;% in prob. reservoir lithology
Stain on fracture faces

FLUORESCENCE: Color NF ; % in total ctgs

CUT (Chlorothene): NC

PERIOD	DT	MUD GAS UNITS	CUTTINGS GAS UNITS	GAS CHROMATOGRAPH C_1	C_2	C_3	C_4	C_5	C_6	CO_2	Etc.
Before	6	2	-------	--		----	----	----	----	----	
During	5	4	--------	400	----	----	----	----	----	----	
After	3-5	2	-------	--	----	----	----	----	----	----	

RECOGNIZED BY: Mike Fisher Time 6 ~~P.M.~~ A.M. Date 11-13-80

CALLED G. Martin Time 8:30 ~~P.M.~~ A.M. Date 11-13-80

REMARKS:
Insignficant increase in gas. MRF.

SHOW REPORT

WELL Bug Well #10 AREA Bug CO. San Juan STATE Utah

SHOW NO. 5 XXXXXXX@5,618 to _____ P.T.D. ---------

DRILLING BREAK - from NONE to ' . GROSS 1-2 ft, NET 1-2 ft.

LITHOLOGY: Type - SS LS DOLO SH SLTSTN OTHER _____
% ( ) (65) (25) ( ) ( )
Remarks _____

POROSITY: (Matrix) Est. % 10-15
(Fracture) Evidence for fracturing None

STAIN: Even, Patchy, Pin Point, _____ (Other)
Light, Dark, "Live", "Dead"
% in total cuttings 45-60 ;% in prob. reservoir lithology _____
Stain on fracture faces _____

FLUORESCENCE: Color NF ; % in total ctgs _____

CUT (Chlorothene): N-P Blgn flor diffuse cut.

PERIOD	DT	MUD GAS UNITS	CUTTINGS GAS UNITS	GAS CHROMATOGRAPH C_1	C_2	C_3	C_4	C_5	C_6	CO_2	Etc.
Before	3-5	2	-------	---	----	----	----	----	----	----	
During	4.5	7	-------	600	----	----	----	----	----	----	
After	3.5-4	1	---------	--	----	----	----	----	----	----	

RECOGNIZED BY: Mike Fisher Time 6:30 ~~XXX.~~ A.M. Date 11-13-80

CALLED G. Martin Time 8:30 ~~XXX.~~ A.M. Date 11-13-80

REMARKS:
Insignificant rise in background gas. MRF.

SHOW REPORT

WELL Bug Well #10 AREA Bug CO. San Juan STATE Utah

SHOW NO. 6 from 5,732 to 5,758 P.T.D. ------

DRILLING BREAK - from 5,732 to 5,744. GROSS 26 ft, NET 12 ft.

LITHOLOGY: Type - SS LS DOLO SH SLTSTN OTHER
% ( ) (90) ( ) ( ) ( )
Remarks LS, tan, wh, crpxln, micrite, poor intxln Ø, NSFOC.

POROSITY: (Matrix) Est. % 4-5
(Fracture) Evidence for fracturing None

STAIN:)NS) Even, Patchy, Pin Point, _____ (Other)
Light, Dark, "Live", "Dead"
% in total cuttings _____ ;% in prob. reservoir lithology _____
Stain on fracture faces _____

FLUORESCENCE: Color NF ; % in total ctgs _____

CUT (Chlorothene): NC

PERIOD	DT	MUD GAS UNITS	CUTTINGS GAS UNITS	GAS CHROMATOGRAPH C_1	C_2	C_3	C_4	C_5	C_6	CO_2	Etc.
Before	6-6.5	2	------	100	------	------	------	------	------	------	
During	4.5	5.5	-------	500	------	------	------	------	------	------	
After	7	2	-------	100	------	------	------	------	------	------	

RECOGNIZED BY: Stuart Unger Time 8 ~~A.M.~~ P.M. Date 11-13-80

CALLED G. Martin Time 1:30 A.M. ~~P.M.~~ Date 11-14-80

REMARKS:

SHOW REPORT

WELL Bug Well #10 AREA Bug CO. San Juan STATE Utah

SHOW NO. 7 from 5,778 to 5,784 P.T.D. ----------

DRILLING BREAK - from NONE to ! . GROSS 6 ft, NET ---- ft.

LITHOLOGY: Type - SS LS DOLO SH SLTSTN OTHER
% ( ) (90) ( ) ( ) ( )
Remarks LS, buff, lt-m-brn clr gy, blky-plty, crp-micxln, micrite, fr intxln Ø, occ dd o stn NFOC.

POROSITY: (Matrix) Est. % 8-10
(Fracture) Evidence for fracturing None

STAIN: Even, Patchy, Pin Point, _____ (Other)
Light, Dark, "Live", "Dead"
% in total cuttings 5-10 ;% in prob. reservoir lithology _____
Stain on fracture faces _____

FLUORESCENCE: Color NF ; % in total ctgs _____

CUT (Chlorothene): NC

PERIOD	DT	MUD GAS UNITS	CUTTINGS GAS UNITS	GAS CHROMATOGRAPH C_1	C_2	C_3	C_4	C_5	C_6	CO_2	Etc.
Before	7-7.5	1	------	100	------	------	------	------	------	------	
During	6	12	-------	2500	------	------	------	------	------	------	
After	6.5	1	-------	100	------	------	------	------	------	------	

RECOGNIZED BY: Stuart Unger Time 12:30 ~~P.M.~~ A.M. Date 11-14-80

CALLED G. Martin Time 1:30 ~~P.M.~~ A.M. Date 11-14-80

REMARKS:
Moderate increase in background gas. MRF.

SHOW REPORT

WELL Bug Well #10 AREA Bug CO. San Juan STATE Utah

SHOW NO. 8 from 5,777 to 5,798 P.T.D. 5,763

DRILLING BREAK - from 5,760 to 5,763. GROSS 6 ft, NET 3 ft.

LITHOLOGY: Type - SS LS DOLO SH SLTSTN OTHER
% ( ) (90) ( ) ( ) ( )
Remarks LS, wh clr brn, blky-plty, crp-micxln, micrite, n-sl, arg, brn o stn poor dull yel flor cut stmg.

POROSITY: (Matrix) Est. % 6-7
(Fracture) Evidence for fracturing None

STAIN: Even, Patchy, Pin Point, _____ (Other)
Light, Dark, "Live", "Dead"
% in total cuttings 5-10 ;% in prob. reservoir lithology _____
Stain on fracture faces _____

FLUORESCENCE: Color NF ; % in total ctgs _____

CUT (Chlorothene): Poor Dull Yellow flor streaming cut.

PERIOD	DT	MUD GAS UNITS	CUTTINGS GAS UNITS	GAS CHROMATOGRAPH C_1	C_2	C_3	C_4	C_5	C_6	CO_2	Etc.
Before	6-7	1	-------	100	-------	-------	-------	-------	-------	-------	
During	2	20	---------	3700	186	-------	-------	-------	-------	-------	
After	6	2.5	--------	4-500	-------	-------	-------	-------	-------	-------	

RECOGNIZED BY: Stuart Unger Time 1:00 A.M. ~~P.M.~~ Date 11-14-80

CALLED G. Martin Time 1:30 A.M. ~~P.M.~~ Date 11-14-80

REMARKS:

SHOW REPORT

WELL Bug Well #10 AREA Bug CO. San Juan STATE Utah

SHOW NO. 9 from 6,048 to 6,054 P.T.D. -----

DRILLING BREAK - from 6,048 to 6,052. GROSS 6 ft, NET 4 ft.

LITHOLOGY: Type - SS LS DOLO SH SLTSTN OTHER
% ( ) (95) ( ) ( ) ( )
Remarks LS, brn, gy, micrite, fair intxln Ø, NSFOC

POROSITY: (Matrix) Est. % 4-10
(Fracture) Evidence for fracturing None

STAIN: Even, Patchy, Pin Point, _____ (Other)
Light, Dark, "Live", "Dead"
% in total cuttings _____; % in prob. reservoir lithology _____
Stain on fracture faces _____

FLUORESCENCE: Color NF; % in total ctgs _____

CUT (Chlorothene): NC

PERIOD	DT	MUD GAS UNITS	CUTTINGS GAS UNITS	GAS CHROMATOGRAPH C_1	C_2	C_3	C_4	C_5	C_6	CO_2	Etc.
Before	4-4.5	1	------	100	------	------	------	------	------	------	
During	3-3.5	3-4	------	6-800	------	------	------	------	------	------	
After	4-5	1	-------	100	------	------	------	------	------	------	

RECOGNIZED BY: Mike Fisher Time 5:30 ~~XXX~~ A.M. Date 11-17-80

CALLED G. Martin Time 8:30 ~~XXX~~ A.M. Date 11-17-80

REMARKS:
Insignficant rise in gas. MRF

SHOW REPORT

WELL Bug Well #10 AREA Bug CO. San Juan STATE Utah

SHOW NO. 10 from 6,148 to 6,154 P.T.D. 6,176

DRILLING BREAK - from 6,148 to 6,152. GROSS 6 ft, NET 3 ft.

LITHOLOGY: Type - SS LS DOLO SH SLTSTN OTHER
% ( ) ( ) ( ) (95) ( )
Remarks SH, blk, gy, sb blky, fis, NSFOC

POROSITY: (Matrix) Est. % None
(Fracture) Evidence for fracturing None

STAIN: Even, Patchy, Pin Point, _____ (Other)
Light, Dark, "Live", "Dead"
NS % in total cuttings _____; % in prob. reservoir lithology _____
Stain on fracture faces _____

FLUORESCENCE: Color NF; % in total ctgs _____

CUT (Chlorothene): NC

PERIOD	DT	MUD GAS UNITS	CUTTINGS GAS UNITS	GAS CHROMATOGRAPH C_1	C_2	C_3	C_4	C_5	C_6	CO_2	Etc.
Before	9.5-10.5	4.6	5	500	tr						
During	7-8	20	23	1800	480	200					
After	9.5-11	1	18	150							

RECOGNIZED BY: Michael Fisher Time 5:00 A.M. ~~P.M.~~ Date 11-18-80

CALLED G. Martin Time 8:30 A.M. ~~P.M.~~ Date 11-18-80

REMARKS:

Gas occured above anhydrite as expected.

SHOW REPORT

WELL Bug Well #10 AREA Bug CO. San Juan STATE Utah

SHOW NO. 11 from 6,190 to 6,194 P.T.D. 6,221

DRILLING BREAK - from None to ' . GROSS 4 ft, NET 4 ft.

LITHOLOGY: Type - SS LS DOLO SH SLTSTN OTHER
% ( ) (80) ( ) (15) ( )
Remarks LS, cavings, SH, blk, gy, fis, sbblky, NSFOC

POROSITY: (Matrix) Est. % Not Estimatible
(Fracture) Evidence for fracturing None

STAIN: Even, Patchy, Pin Point, _____ (Other)
(NS_ Light, Dark, "Live", "Dead"
% in total cuttings _____ ;% in prob. reservoir lithology _____
Stain on fracture faces _____

FLUORESCENCE: Color NF ; % in total ctgs _____

CUT (Chlorothene): NC

PERIOD	DT	MUD GAS UNITS	CUTTINGS GAS UNITS	GAS CHROMATOGRAPH C_1	C_2	C_3	C_4	C_5	C_6	CO_2	Etc.
Before	11.5	2.5	3	200	--	--	--	--	--	--	
During	8.5	6	6	800	--	--	--	--	--	--	
After	5.5-7	3	5	400	--	--	--	--	--	--	

RECOGNIZED BY: Mike Fisher Time 1:00 ~~A.M.~~ P.M. Date 11-18-80

CALLED G. Martin Time 4 ~~A.M.~~ P.M. Date 11-18-80

REMARKS:
Insignificant rise in background gas caused by penetration of shale bed. MRF.

SHOW REPORT

WELL Bug Well #10 AREA Bug CO. San Juan STATE Utah

SHOW NO. 12 from 6,198 to 6,203 P.T.D. 6,221

DRILLING BREAK - from 6,198 to 6,202 GROSS 7 ft, NET 4 ft.

LITHOLOGY: Type - SS LS DOLO SH SLTSTN OTHER
% ( ) (80) ( ) (15) ( )
Remarks LS, wh gy micrite with some sparite, occ mod arg, poor-occ fair interxln Ø, NSFOC.

POROSITY: (Matrix) Est. % 5-10
(Fracture) Evidence for fracturing None

STAIN: Even, Patchy, Pin Point, _____ (Other)
(NS) Light, Dark, "Live", "Dead"
% in total cuttings _____ ;% in prob. reservoir lithology _____
Stain on fracture faces _____

FLUORESCENCE: Color NF ; % in total ctgs _____

CUT (Chlorothene): NC

PERIOD	DT	MUD GAS UNITS	CUTTINGS GAS UNITS	GAS CHROMATOGRAPH C_1	C_2	C_3	C_4	C_5	C_6	CO_2	Etc.
Before	5.5-7	3.5	3	300	--	--	--	--	--	--	
During	3-3.5	20	6	3000	415	80	--	--	--	--	
After	6.5-7	4.5	4	800	--	--	--	--	--	--	

RECOGNIZED BY: Mike Fisher Time 1:45 ~~A.M.~~ P.M. Date 11-18-80

CALLED G. Martin Time 4:00 ~~A.M.~~ P.M. Date 11-18-80

REMARKS:

SHOW REPORT

WELL Bug Well #10 AREA Bug CO. San Juan STATE Utah

SHOW NO. 13 from 6,206 to 6,214 P.T.D. 6,221 and Circing

DRILLING BREAK - from 6,208 to 6,214. GROSS 8 ft, NET 6 ft.

LITHOLOGY: Type - SS LS DOLO SH SLTSTN OTHER
% ( ) (55) ( ) (45) ( )
Remarks LS, wh gy, micxln, micrite, occ fr intxln Ø, NSFOC
SH, blk, gy fis-sbbblky

POROSITY: (Matrix) Est. % LS 6-8
(Fracture) Evidence for fracturing None

STAIN: Even, Patchy, Pin Point, _____ (Other)
Light, Dark, "Live", "Dead"
(NS) % in total cuttings _____; % in prob. reservoir lithology _____
Stain on fracture faces _____

FLUORESCENCE: Color NF; % in total ctgs _____

CUT (Chlorothene): NC

PERIOD	DT	MUD GAS UNITS	CUTTINGS GAS UNITS	GAS CHROMATOGRAPH C_1	C_2	C_3	C_4	C_5	C_6	CO_2	Etc.
Before	6.5-7	4.5	8	400	tr	---	---	---	---	---	
During	4.5-5.5	35	23	4200	830	390	145	150	---	---	
After	6-6.5	13	40	1800	310	100	---	---	---	---	

RECOGNIZED BY: Mike Fisher Time 2:00 ~~A.M.~~ P.M. Date 11-18-80

CALLED G. Martin Time 4:00 ~~A.M.~~ P.M. Date 11-18-80

REMARKS:

SHOW REPORT

WELL Bug Well #10 AREA Bug CO. San Juan STATE Utah

SHOW NO. 14 from 6,331 to 6,339 P.T.D. 6,347

DRILLING BREAK - from None to Coring. GROSS 8 ft, NET ----- ft.

LITHOLOGY: Type - SS LS DOLO SH SLTSTN OTHER
% ( ) ( ) (80) (18) ( )
Remarks Appears to have peaked within shale bed interval.

POROSITY: (Matrix) Est. % 2 max.
(Fracture) Evidence for fracturing None

STAIN: Even, Patchy, Pin Point, poor brn stn (Other)
Light, Dark, "Live", "Dead"
% in total cuttings 80 ;% in prob. reservoir lithology
Stain on fracture faces

FLUORESCENCE: Color NF ; % in total ctgs

CUT (Chlorothene): NC

PERIOD	DT	MUD GAS UNITS	CUTTINGS GAS UNITS	GAS CHROMATOGRAPH C_1	C_2	C_3	C_4	C_5	C_6	CO_2	Etc.
Before		35	------	1500	275	80	tr	60	----------		
During		53	---------	3200	690	240	tr	200	----------		
After		40	----------	2000	415	160	tr	100	----------		

RECOGNIZED BY: Stuart Unger Time 12:01 ~~XXXX~~ A.M. Date 11-22-80

CALLED G. Martin Time 9:30 ~~XXXX~~ A.M. Date 11-22-80

REMARKS:
Trip gas circulated from porosity zone at 52 units. No show recorded at time of drilling due to jammed core bit which caused drop in pump pressure and forced premature removal of core.

DAILY GEOLOGICAL REPORT

DATE: Sunday, Nov. 9, 1980

WELL: Bug Well #10 PRESENT TD: 4,397'

AVERAGE DRILLING RATE: 2-3½ MIN/FT, 535 FT/ 24 HRS

PRESENT OPERATION: Drilling

GENERAL LITHOLOGY: Shale 4,000-4,100: SLTST 4100-10, SH 4110-4185, SS 4185-4210, SH 4210-4230, SLTST, 4,230-4280, SS 4280-4402

SAMPLE CONDITION: Good

SAMPLE TOPS: _____ @ _____

_____ @ _____

DEPTH OR INTERVAL	DRILLING BREAK		DOMINANT LITHOLOGY	SHOW	LOST CIRCULATION
4,380-4,402	1	MIN/FT	SS, SLTST	NO.	BBLS
		MIN/FT		NO.	BBLS
		MIN/FT		NO.	BBLS
		MIN/FT		NO.	BBLS
		MIN/FT		NO.	BBLS

DEVIATION SURVEY DEPTH

_____ @ _____

_____ @ _____

_____ @ _____

BACKGROUND GAS: 2 UNITS

TRIP GAS: _____ UNITS @ _____ FT

H_2S: _____ PPM

MUD WEIGHT: 8.33, VISCOSITY: 27

CL - 700ppm

LOGGING UNIT BREAKDOWN (TIME - REASON - INTERVAL DRILLED)

REMARKS:

DAILY GEOLOGICAL REPORT

DATE: Monday, Nov. 10, 1980

WELL: Bug Well #10 PRESENT TD: 4,810

AVERAGE DRILLING RATE: 3-5 MIN/FT, 413 FT/ 24 HRS

PRESENT OPERATION: Drilling

GENERAL LITHOLOGY: SLTST 4402-84, SS 4484-4500, SLTST 4520-60, SS, 4560-80, SH 4580-85, LS, 4585-90, SLTST, 4590-4635, SS 4635-60, SLTST, 4660-4730, SLTST/SH 4730-4810

SAMPLE CONDITION: FR-GD

SAMPLE TOPS: Honaker Trail @ 4576

_____ @ _____

DEPTH OR INTERVAL	DRILLING BREAK	DOMINANT LITHOLOGY	SHOW	LOST CIRCULATION
	MIN/FT		NO.	BBLS
	MIN/FT		NO.	BBLS
	MIN/FT		NO.	BBLS
	MIN/FT		NO.	BBLS
	MIN/FT		NO.	BBLS

DEVIATION SURVEY DEPTH

@ @ @

BACKGROUND GAS: 1 UNITS

TRIP GAS: _____ UNITS @ _____ FT

H_2S: _____ PPM

MUD WEIGHT: 8.7, VISCOSITY: 32
CL-700

LOGGING UNIT BREAKDOWN (TIME - REASON - INTERVAL DRILLED)

REMARKS:

DAILY GEOLOGICAL REPORT

DATE: Tuesday, Nov. 11, 1980

WELL: Bug Well #10 PRESENT TD: 5,044

AVERAGE DRILLING RATE: 4-6 MIN/FT, 234 FT/ 24 HRS

PRESENT OPERATION: Drilling

GENERAL LITHOLOGY: LS 4810-45, SLTST/SS 4845-65, SH 4865-4905, LS 4905-50, SLTST, 4950-60 LS/SLTST 4960-80, SLTST 4980-5000, LS 5000-30

SAMPLE CONDITION: GOOD

SAMPLE TOPS: _____ @ _____

_____ @ _____

DEPTH OR INTERVAL	DRILLING BREAK	DOMINANT LITHOLOGY	SHOW	LOST CIRCULATION
	MIN/FT		NO.	BBLS
	MIN/FT		NO.	BBLS
	MIN/FT		NO.	BBLS
	MIN/FT		NO.	BBLS
	MIN/FT		NO.	BBLS

DEVIATION SURVEY (not recorded) DEPTH

_____ @ 4935

_____ @ _____

_____ @ _____

BACKGROUND GAS: 1 UNITS

TRIP GAS: 95 UNITS @ 4935 FT

C_1 - 4800ppm C_2 - 592ppm

H_2S: _____ PPM

MUD WEIGHT: 9.1, VISCOSITY: 32

pv6 pH 10 WL 14.2 CKE -, CL-700 SLDS 5%

LOGGING UNIT BREAKDOWN (TIME - REASON - INTERVAL DRILLED)

REMARKS:

DAILY GEOLOGICAL REPORT

DATE: Wednesday, Nov. 12, 198(

WELL: Bug Well #10 PRESENT TD: 5,340

AVERAGE DRILLING RATE: 5 MIN/FT, 296 FT/ 24 HRS

PRESENT OPERATION: Drilling

GENERAL LITHOLOGY: SLTST/INTBD LS 5030-45, LS 5045-50, SLTST/INBD LS 5050-65, LS 5065-75, SLTST, 5075-5125, LS 5125-35, SLTST/INTBDLS 5135-50, LS 5150-65, SLTST, 5165-75, LS 5175-85 SLTST 5185-90, LS 5190-95, SLTST 5195-5200, SLTST 5210-15, LS 5215-20, DOL/INTBD SLTST 5220-40, LS/INTBD SLTST 5240-60, SS 5260-80, LS 5280-85, SS/SLTST 5285-5300

SAMPLE CONDITION: Good

SAMPLE TOPS: _____ @ _____

_____ @ _____

DEPTH OR INTERVAL	DRILLING BREAK		DOMINANT LITHOLOGY	SHOW	LOST CIRCULATION
5256-80	½-3	MIN/FT	55	NO.	BBLS
5,266-80	½-1½	MIN/FT		NO.	BBLS
		MIN/FT		NO.	BBLS
		MIN/FT		NO.	BBLS
		MIN/FT		NO.	BBLS

DEVIATION SURVEY DEPTH

_____ @ _____

_____ @ _____

_____ @ _____

BACKGROUND GAS: 1 UNITS

TRIP GAS: _____ UNITS @ _____ FT

H_2S: _____ PPM

MUD WEIGHT: 9.3, VISCOSITY: 34
pH 10 WL 15 CK2 CL 800 SLDS 5%

LOGGING UNIT BREAKDOWN (TIME - REASON - INTERVAL DRILLED)

REMARKS: 10:30 a.m.-10:50 a.m.: lite plant down - trap adjusted

DAILY GEOLOGICAL REPORT

DATE: Thursday, Nov. 13, 1980

WELL: Bug Well #10 PRESENT TD: 5633

AVERAGE DRILLING RATE: 5 MIN/FT, 293 FT/ 24 HRS

PRESENT OPERATION: Drilling

GENERAL LITHOLOGY: LSTST/SS/INTBD LS 5300-15, LS/SLTST 5315-30, SLTST 5330-45, LS/INTBD SH 5345-50, SLTST/SH 5350-60, LS 5360-75, SLTST 5375-90, LS 5390-5430, DOL 5430-70, DOL/INTBD LS 5470-80, LS 5480-5500, LS/INTBD DOL 5500-05, LS 5505-30, LS/INTBD SLTST, SH 5530-40, LS5540-45, LS/INTBD SLTST 5545-55, LS 5555-5600

SAMPLE CONDITION: GOOD

SAMPLE TOPS: Paradox/LWR H.T. @ 5348

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DEPTH OR INTERVAL	DRILLING BREAK	DOMINANT LITHOLOGY	SHOW	LOST CIRCULATION
	MIN/FT		NO. 1	BBLS
	MIN/FT		NO. 2	BBLS
	MIN/FT		NO. 3	BBLS
	MIN/FT		NO. 4	BBLS
	MIN/FT		NO. 5	BBLS

DEVIATION SURVEY DEPTH

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BACKGROUND GAS: 2 UNITS

TRIP GAS: UNITS @ FT

H_2S: PPM

MUD WEIGHT: 9.4, VISCOSITY: 33
pH9 wl 14 ck 2 cl700, solids 5%

LOGGING UNIT BREAKDOWN (TIME - REASON - INTERVAL DRILLED)

REMARKS: insignificant peaks

DAILY GEOLOGICAL REPORT

DATE: Friday, Nov. 14, 1980

WELL: Bug Well #10 PRESENT TD: 5790

AVERAGE DRILLING RATE: 4-7 MIN/FT, 257 FT/ 24 HRS

PRESENT OPERATION: Trip for DST

GENERAL LITHOLOGY: LS/INTBD DOL 5600-30, SLTST-SH/INTBD LS 5630-50, LS 5650-70, DOL LS 5670-5720, LS 5720-45, LS /INTBD DOL 5745-50, SH/INTBD LS 5750-55, SH 5755-70, LS/INTBD SH 5770-92

SAMPLE CONDITION: GOOD

SAMPLE TOPS: _____ @ _____

_____ @ _____

DEPTH OR INTERVAL	DRILLING BREAK		DOMINANT LITHOLOGY	SHOW	LOST CIRCULATION	
5732-58	4½	MIN/FT	LS	NO. 6	0	BBLS
5778-84	6	MIN/FT	LS	NO. 7	0	BBLS
5787-90	2	MIN/FT	LS	NO. 8	0	BBLS
		MIN/FT		NO.		BBLS
		MIN/FT		NO.		BBLS

DEVIATION SURVEY	DEPTH
5793	@
	@
	@

BACKGROUND GAS: 2 UNITS

TRIP GAS: _____ UNITS @ _____ FT

H_2S: _____ PPM

MUD WEIGHT: 9.2, VISCOSITY3 33
pH 9 wl 15.2, ck 2/32, cl 700, solids 5%

LOGGING UNIT BREAKDOWN (TIME - REASON - INTERVAL DRILLED)

REMARKS: Test to be run on interval from 5734 - PTD. GM called @1:30 11/14 to report show/test confirmed called Mike Sliger after waiting on washout carbide string pulled @ 4:30 a.m. TiH @9:00 a.m. with Bit #7

DAILY GEOLOGICAL REPORT

DATE: Saturday, Nov. 15, 1980

WELL: Bug Well #10 PRESENT TD: 5,763 (slm corrctn - -30.42')

AVERAGE DRILLING RATE: _____ MIN/FT, _____ FT/_____ HRS

PRESENT OPERATION: Testing DST #1

GENERAL LITHOLOGY: LS/SH

SAMPLE CONDITION: _____

SAMPLE TOPS: _____ @ _____

_____ @ _____

DEPTH OR INTERVAL	DRILLING BREAK	DOMINANT LITHOLOGY	SHOW	LOST CIRCULATION
_____	_____ MIN/FT	_____	NO. _____	_____ BBLS
_____	_____ MIN/FT	_____	NO. _____	_____ BBLS
_____	_____ MIN/FT	_____	NO. _____	_____ BBLS
_____	_____ MIN/FT	_____	NO. _____	_____ BBLS
_____	_____ MIN/FT	_____	NO. _____	_____ BBLS

DEVIATION SURVEY DEPTH

_____ @ _____

_____ @ _____

_____ @ _____

BACKGROUND GAS: _____ UNITS

TRIP GAS: _____ UNITS @ _____ FT

H_2S: _____ PPM

MUD WEIGHT: _____, VISCOSITY: _____

LOGGING UNIT BREAKDOWN (TIME - REASON - INTERVAL DRILLED)

REMARKS: _____

DAILY GEOLOGICAL REPORT

DATE: Sunday, Nov. 16, 1980

WELL: Bug Well #10 PRESENT TD: 5,843

AVERAGE DRILLING RATE: 5-6 MIN/FT, 74 FT/ 7.5 HRS

PRESENT OPERATION: Drilling

GENERAL LITHOLOGY: SH/INTBD LS 5765-70, DOL 5770-80, LS 5780-5790

SAMPLE CONDITION: GOOD

SAMPLE TOPS: _____ @ _____

_____ @ _____

DEPTH OR INTERVAL	DRILLING BREAK		DOMINANT LITHOLOGY	SHOW	LOST CIRCULATION
5808-12	2½	MIN/FT	LS/DOL	NO.	BBLS
		MIN/FT		NO.	BBLS
		MIN/FT		NO.	BBLS
		MIN/FT		NO.	BBLS
		MIN/FT		NO.	BBLS

DEVIATION SURVEY DEPTH

_____ @ _____

_____ @ _____

_____ @ _____

BACKGROUND GAS: 1 UNITS

TRIP GAS: _____ UNITS @ _____ FT

H_2S: _____ PPM

MUD WEIGHT: 9.1, 1 VISCOSITY: 33
pH 9, WL 12, CK 2/32, cl 700, SOLIDS 5%

LOGGING UNIT BREAKDOWN (TIME - REASON - INTERVAL DRILLED)

REMARKS:

DAILY GEOLOGICAL REPORT

DATE: Monday, Nov. 17, 1980

WELL: Bug Well #10 PRESENT TD: 6,078

AVERAGE DRILLING RATE: 5-7½ MIN/FT, 235 FT/ 23.25 HRS

PRESENT OPERATION: Drilling

GENERAL LITHOLOGY: LS 5790-5800, SH 5800-05, LS 5805-15, LS INTBD DOL 5815-20, LS 5820-65, DOL/INTBD LS 5865-70, LS/INTBD DOL 5870-75, SL 5875-85, LS/INTBD SH 5885-90, LS 5890-5910, CRGS (LS+SH) 5910-60, LS 5960-6020, ANHY 6020-25, LS/INTBD SH 6025-40, LS 6040-60, SH 6060-80

SAMPLE CONDITION:

SAMPLE TOPS: Upper Ismay @ 5832

Lower Upper Ismay @ 6010

DEPTH OR INTERVAL	DRILLING BREAK		DOMINANT LITHOLOGY	SHOW	LOST CIRCULATION
6048-54	3=3½	MIN/FT	LS	NO. 9	BBLS
		MIN/FT		NO.	BBLS
		MIN/FT		NO.	BBLS
		MIN/FT		NO.	BBLS
		MIN/FT		NO.	BBLS

DEVIATION SURVEY DEPTH

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BACKGROUND GAS: 1 UNITS

TRIP GAS: UNITS @ FT

H_2S: PPM

MUD WEIGHT: 9.3, VISCOSITY 40
pH 11, wl 10.2, ck 2/32, cl 700, solids 6%

LOGGING UNIT BREAKDOWN (TIME - REASON - INTERVAL DRILLED)

REMARKS:

DAILY GEOLOGICAL REPORT

DATE: Tuesday, Nov. 18, 1980

WELL: Bug Well #10 PRESENT TD: 6,162 6 a.m.
6,176 8 a.m.

AVERAGE DRILLING RATE: 7 MIN/FT, 97 FT/ 15.5 HRS

PRESENT OPERATION: Drilling - repairing/servicing motors.

GENERAL LITHOLOGY: SH 6080-6150, ANHY 6150-55, LS 6155-60

SAMPLE CONDITION: Fair

SAMPLE TOPS: Lower Ismay SH @ 6066

_____ @ _____

DEPTH OR INTERVAL	DRILLING BREAK		DOMINANT LITHOLOGY	SHOW	LOST CIRCULATION
6148-54	7-8	MIN/FT	SH	NO. 10	BBLS
		MIN/FT		NO.	BBLS
		MIN/FT		NO.	BBLS
		MIN/FT		NO.	BBLS
		MIN/FT		NO.	BBLS

DEVIATION SURVEY DEPTH

_____ @ _____

_____ @ _____

_____ @ _____

Current
~~BACKGROUND~~ GAS: 1 UNITS
Shale
TRIP GAS: 46 UNITS @ 6090 FT

H_2S: _____ PPM

MUD WEIGHT: 9.4, VISCOSITY 45
pH 11, wl 18, cke 2/32, cl 800, solids 7&

LOGGING UNIT BREAKDOWN (TIME - REASON - INTERVAL DRILLED)

REMARKS:

DAILY GEOLOGICAL REPORT

DATE: Wednesday, Nov. 19, 1980

WELL: Bug Well #10 PRESENT TD: 6221

AVERAGE DRILLING RATE: 6 MIN/FT, 45 FT/ 4.5 HRS

PRESENT OPERATION: DST #2, Lower Ismay Ø

GENERAL LITHOLOGY: SH/LS , corrected lith intervals SH 6065-6155, ANHY 6155-70, ANHY/ INTBD LS 6170-75, ANHY 6175-85, SH 6185-95, LS 6195-6215, SH 6215-20

SAMPLE CONDITION: fair to good

SAMPLE TOPS: B Zone @ 6210

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DEPTH OR INTERVAL	DRILLING BREAK		DOMINANT LITHOLOGY	SHOW	LOST CIRCULATION
6190-94	8½	MIN/FT	LS/SH	NO. 11	BBLS
6196-6202	3-3½	MIN/FT	LS	NO. 12	BBLS
6206-6214	4½-5½	MIN/FT	LS/SH	NO. 13	BBLS
		MIN/FT		NO.	BBLS
		MIN/FT		NO.	BBLS

DEVIATION SURVEY DEPTH

0 @ 6221

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BACKGROUND GAS: 13 - LS UNITS

TRIP GAS: UNITS @ FT

H_2S: PPM

MUD WEIGHT: 9.4 , VISCOSITY: 45
9:30a.m. 9.1 35

LOGGING UNIT BREAKDOWN (TIME - REASON - INTERVAL DRILLED)

REMARKS: test interval 6192-5221, total 29'. Times 30, 60, 90, 120, unless gas on opening tool then extend FF to 120 FSI to 180

DAILY GEOLOGICAL REPORT

DATE: Thursday, Nov. 20, 1980

WELL: Bug Well #10 PRESENT TD: 6244

AVERAGE DRILLING RATE: 8 MIN/FT, 23 FT/ 3 HRS

PRESENT OPERATION: Drilling

GENERAL LITHOLOGY: SH 6220-30

SAMPLE CONDITION: Fair

SAMPLE TOPS: _____ @ _____

_____ @ _____

DEPTH OR INTERVAL	DRILLING BREAK	DOMINANT LITHOLOGY	SHOW	LOST CIRCULATION
	MIN/FT		NO.	BBLS
	MIN/FT		NO.	BBLS
	MIN/FT		NO.	BBLS
	MIN/FT		NO.	BBLS
	MIN/FT		NO.	BBLS

DEVIATION SURVEY DEPTH

_____ @ _____

_____ @ _____

_____ @ _____

BACKGROUND GAS: 40-45 UNITS
circing mud

TRIP GAS: no tig UNITS @ _____ FT

H_2S: _____ PPM

MUD WEIGHT: 10.9, VISCOSITY: 42
pH 9.8, wl 16, ck 2/32, cl 4000, solids 18°/o

LOGGING UNIT BREAKDOWN (TIME - REASON - INTERVAL DRILLED)

REMARKS: Back to drilling @ 5:00 a.m. on 11-20-80

DAILY GEOLOGICAL REPORT

DATE: Friday, Nov. 21, 1980

WELL: Bug Well #10 PRESENT TD: 6309

AVERAGE DRILLING RATE: 10-15 MIN/FT, 65 FT/ 10.25 HRS

PRESENT OPERATION: Coring (begun @ 6 a.m.)

GENERAL LITHOLOGY: _____

SAMPLE CONDITION: Fair

SAMPLE TOPS: Desert Creek @ 6266

_____ @ _____

DEPTH OR INTERVAL	DRILLING BREAK	DOMINANT LITHOLOGY	SHOW	LOST CIRCULATION
	MIN/FT		NO.	BBLS
	MIN/FT		NO.	BBLS
	MIN/FT		NO.	BBLS
	MIN/FT		NO.	BBLS
	MIN/FT		NO.	BBLS

DEVIATION SURVEY DEPTH

_____ @ _____

_____ @ _____

_____ @ _____

BACKGROUND GAS: 30 UNITS

TRIP GAS: 26 UNITS @ 6300 FT

H_2S: _____ PPM

MUD WEIGHT: 11.34, VISCOSITY: 40
pH9.5, wl 10, ck 2/32, cl 2800, solids 20%

LOGGING UNIT BREAKDOWN (TIME - REASON - INTERVAL DRILLED)

REMARKS: Coring begun @ 6:00 a.m. Nov. 21, 1980

DAILY GEOLOGICAL REPORT

DATE: Saturday, Nov. 22, 1980

WELL: Bug Well #10 PRESENT TD: 6347

AVERAGE DRILLING RATE: 10-13 MIN/FT, 38 FT/ 9.75 HRS

PRESENT OPERATION: TIH for DST #3

GENERAL LITHOLOGY: DOL/INTBD SH 6300-15, ANHY 6315-20, DOL/OCC INTBD SH 6320-40, SH 6340-45

SAMPLE CONDITION: Good

SAMPLE TOPS: DC Lower Bench @ 6311

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DEPTH OR INTERVAL	DRILLING BREAK	DOMINANT LITHOLOGY	SHOW	LOST CIRCULATION
6331-39	MIN/FT	DOL	NO. 14	BBLS
	MIN/FT		NO.	BBLS
	MIN/FT		NO.	BBLS
	MIN/FT		NO.	BBLS
	MIN/FT		NO.	BBLS

DEVIATION SURVEY DEPTH

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BACKGROUND GAS: 30 UNITS

TRIP GAS: UNITS @ FT

H_2S: PPM

MUD WEIGHT: 11.5, VISCOSITY: 37

pH 10, wl 13.2, ck 2/32, cl 1900, solids 21%

LOGGING UNIT BREAKDOWN (TIME - REASON - INTERVAL DRILLED)

REMARKS:

DAILY GEOLOGICAL REPORT

DATE: Sunday, Nov. 23, 1980

WELL: Bug Well #10 PRESENT TD: 6347

AVERAGE DRILLING RATE: _____ MIN/FT, _____ FT/_____ HRS

PRESENT OPERATION: TOH with DST tool

GENERAL LITHOLOGY: _____

SAMPLE CONDITION: _____

SAMPLE TOPS: _____ @ _____

_____ @ _____

DEPTH OR INTERVAL	DRILLING BREAK	DOMINANT LITHOLOGY	SHOW	LOST CIRCULATION
	MIN/FT		NO.	BBLS
	MIN/FT		NO.	BBLS
	MIN/FT		NO.	BBLS
	MIN/FT		NO.	BBLS
	MIN/FT		NO.	BBLS

DEVIATION SURVEY DEPTH

_____ @ _____

_____ @ _____

_____ @ _____

BACKGROUND GAS: _____ UNITS

TRIP GAS: _____ UNITS @ _____ FT

H_2S: _____ PPM

MUD WEIGHT: 11.4, VISCOSITY: 38
pH 10, wl 11.2, ck 2/32, cl 1900, solids 21%

LOGGING UNIT BREAKDOWN (TIME - REASON - INTERVAL DRILLED)

REMARKS: _____

DAILY GEOLOGICAL REPORT

DATE: Monday, Nov. 24, 1980

WELL: Bug WEll #10 PRESENT TD: 6395

AVERAGE DRILLING RATE: 7-8 MIN/FT, 52 FT/ 6.5 HRS

PRESENT OPERATION: waiting on Schlumberger

GENERAL LITHOLOGY: SH/INTBD LS 6345-75, DOL 6375-80, ANHY/OCC SALT 6380-95

DOL, lt-dk gry, tan, sft-frm, micxln, arg, p-f intxln Ø,

SAMPLE CONDITION: fair to poor

SAMPLE TOPS: AKAH @ 6366

SALT @ 6394

DEPTH OR INTERVAL	DRILLING BREAK	DOMINANT LITHOLOGY	SHOW	LOST CIRCULATION
	MIN/FT		NO.	BBLS
	MIN/FT		NO.	BBLS
	MIN/FT		NO.	BBLS
	MIN/FT		NO.	BBLS
	MIN/FT		NO.	BBLS

DEVIATION SURVEY		DEPTH
6394	@	$3/4^{o}$
	@	
	@	

BACKGROUND GAS: UNITS

TRIP GAS: 250 UNITS @ FT

H_2S: PPM

MUD WEIGHT: , VISCOSITY:

LOGGING UNIT BREAKDOWN (TIME - REASON - INTERVAL DRILLED)

REMARKS:

slm corr. -1^{1} + 6,394' T.D.

LITHOLOGY

4,000-4,020	Shale (90%) rd gy to ltgygn, sft to frm, blky, slty, sl dol. Limestone (10%) wh, frm to hd, crp to micxln, micrite, sme fr Ø.
4,020-4,120	Shale, rdgy to ltgygn, sft to frm, sbfis to blky occ slty occ calc tr pyr, tr Anhydrite.
4,120-4,170	Shale (60-70%) rdgy, sft to frm, blky, occ slty, occ calc. Siltstone (30-40%) rdbrn, frm, mod arg occ sl sdy, sl dol occ tr Anhydrite.
4,170-4,340	Siltstone (40-60%) rd to rdbrn, frm, mod arg occ sme vf gr sd, sl dol. Sandstone (10-20%) rdbrn, frm, vf gr mod w srt, occ g intgr Ø, slty, sl dol to sl calc. Shale (10%) orng to rd gy, sft to frm, fis to occ blky, occ calc.
4,340-4,380	Shale (10-30%) orng to purp to brn, sft, sbblky to sbfis, occ slty, sl calc to sl dol. Sandstone (10-20%) clr to orng, frm, occ hd, vf to f gr cons w srt sbang m to co gr uncons ang, slty, sl to mod calc/occ CALC xls.
4,380-4,430	Sandstone (20-40%) clr, hd, fri f to m gr cons p srt sbang, m to co gr uncons. Siltstone (50-60%) orng, sft, arg, occ sdy, sl to moc calc.
4,430-4,460	Siltstone (50-70%) orng, sft, arg, mod sdy, calc, occ mica. Shale (20-40%) orng, sft, occ frm, sbblky to sbfis, occ slty, mod calc.
4,460-4,470	Siltstone (50-70%) orng, sft, arg, sme vf gr sd occ v mica, sl to mod calc. Sandstone (20-30%) clr, hd, m to co gr uncons mod w srt sbang to ang fri.
4,470-4,490	Siltstone (60-70%) rdbrn to orng, sft, arg, vf to f gr sd, occ mica, sl to mod calc. Shale (30%) rd brn to orng, sft, sbblky to blky, occ sl slty, occ sl calc.
4,490-4,500	Sandstone (30-40%) clr, hd, m to co gr uncons mod w srt sbang to ang. Siltstone rdbrn to orng, arg, sdy, occ mica sl to mod calc.
4,500-4,510	Sandstone (80-90%) clr, hd, m to co gr uncons sbrd to ang fri.
4,510-4,530	NO SAMPLE

Lithology con't.

4,530-
4,540 Siltstone (60%) rdbrn to orng, sft, vf to f gr sd, arg, mica, sl to mod calc.
Sandstone (30%) clr, hd, m to co gr uncons mod w srt tr Anhydrite.

4,540-
4,550 Siltstone (40-60%) rdbrn to orng, sft to frm, arg, sme vf gr sd, mica, sl calc, tr pyr.
Sandstone (30%) clr, frm to hd, co gr mod w srt ang to sbrd fr intgr Ø.

4,550-
4,630 Siltstone (50-60%) rdbrn orng, sft to frm, arg, sdy, sl calc.
Sandstone (10-20%) clr, hd, m to co gr mod w srt and to sbrd, qtzite.
Shale (10-20%) gy, sft, blky, n calc.

4,630-
4,660 Limestone (10%) wh, orng frm to hd, micxln, micrite, n arg fr to occ g intxln Ø, NSFOC.
Sandstone (40-70%) clr, hd, co gr uncons w srt sbang.
Siltstone rd brn orng, sft to frm arg, sdy, v calc.

4,660-
4,690 Sandstone (50%) clr, hd, co gr w srt sbang to ang.
Siltstone (45-60%) rdbrn orng, sft to frm, sdy occ arg, mica, calc.
Limestone (5% max) wh, frm to hd, crpxln, micrite, occ.slty, sl arg.

4,690-
4,700 Siltstone (60%) rdbrn, frm, sdy arg, mica, calc.
Sandstone clr, hd, cogr sbang.

4,700-
4,710 Siltstone (40-60%) rdbrn, frm, arg, sdy, calc.
Shale (40%) lt to dkgy, sft, blky to sbblky, n to sl calc.

4,710-
4,730 Siltstone (60%) rdbrn, frm, arg, sdy, calc.
Limestone (35%) wh, frm to hd, crpxln, micrite, n to sl arg p intxln Ø, NSFOC.
Sandstone (54) clr, hd, co gr sbang.

4,730-
4,760 Shale (60-80%) purpbrn, sft, sbblky, n-sl slty occ sdy, n calc.
Anhydrite, wh to ltgn, sft, amor, gn mnl flor.
Siltstone (20-30%) rdbrn, sft, calc, arg, sdy grdg to vf gr Sandstone, slty, occ arg.

4,760-
4,780 Shale (60-70%) purpbrn, sft sbblky, sl slty, occ sdy, n calc.
Limestone, buff to tan, sft to frm, micxln to micgran, micrite, arg, occ slty, n dol.
Siltstone (20-30%) rdbrn, sft, arg, occ sdy, calc.

4,780-
4,800 Shale (60-80%) orng brn, sft, sbblky to blky, n to sl slty, n sdy, n calc.
Anhydrite (20%) ltgn to wh, sft, amor, occ sdy.
Limestone (tr) wh/orng str, sft, micxln, micrite, n arg, p intxln Ø, NSFOC.

Lithology con't.

4,800-
4,810 Limestone (50-60¢) wh/orng str ltgy, sft, micxln, micrite, n arg, n dol, pØ, NSFOC.
Siltstone (20-25%) orng to brn, sft to frm, calc, arg, sdy grdg to slty, calc, vf gr Sandstone.
Shale (10-20%) brn to orng, sft, sbfis to blky, occ slty, n calc.

4,810-
4,840 Limestone (80-95%) wh/orng str lt to dk gy, sft to frm, crp to micxln, micrite sparite, occ arg, sme fr to g intxln Ø, NSFOC, occ CALC xls.

4,840-
4,950 Limestone (40-80%) wh/orng str gy, sft to frm, micrite sme sparite, occ arg, sme fr to g Ø, NSFOC.
Siltstone (5-20%) rdbrn, sft, calc, occ v sdy grdg to Sandstone, occ arg grdg to Shale, rdbrn, sft to frm, blky to sbblky, calc.
Anhydrite (tr) wh, sft, amor.

4,950-
4,970 Siltstone (30-40%) rdbrn orng, sft to frm, vf gr sd, sl to mod arg, calc.
Shale (20-40%) gy brn gy, sft, blky, occ calc.
Limestone (15-30%) wh buff lt brn clr, frm to hd cro to micxln, micrite, sl arg, NSFOC.
Anhydrite (tr-10%) wh, sft, amor.

4,970-
5,000 Siltstone (70-85%) brn gy, sft to frm, arg sdy, calc, mica, sme g intgr Ø, tr gybrn stn, NF.
Limestone (5-15%) gy wh tan, sft to hd, crp to micxln, occ micgran, micrite, arg, sl to mod slty, p to fr Ø, tr gybrn o stn, NFOC.

5,000-
5,030 Limestone (90-95%) wh gy, sft to hd, crp to micxln, micrite, n to sl arg, n slty, n to sl dol, p intxln Ø, NSFOC.
Siltstone (tr-10%) gy brn, sft to frm, arg, occ sdy, calc, p to fr Ø, tr mica.

5,030-
5,050 Siltstone (40-55%) rdorng brn, frm, arg, occ sdy, sl to mod calc, n to p intgr Ø, NSFOC.
Limestone (40%) wh to gy, frm to hd, crp to micxln, micrite sparite, occ CALC frags, n to sl arg, n to p intxln Ø, NSFOC.
Occ Anhydrite (to 20%) wh, sft, amor.

5,050-
5,060 Siltstone (40%) rdorng, sft to hd, arg, occ mod sdy, calc, sl dol, occ grdg to Shale.
Snadstone (20%) clr, sft to hd, f gr mod w srt ang to sbang, mica, sl to mod calc.
Limestone (40%) wh to gy, sft to hd, crp to micxln, micrite occ sparite, n to sl arg, n to sl dol, n to p Ø, NSFOC.

Lithology con't.

5,060-
5,090 Limestone (30-50%) wh gy, sft to hd, crp to micxln, micrite, occ CALC xls, NSFOC.
Siltstone (40-50%) orngrd to brn, sft to frm, arg, occ sl sdy, calc.
Shale (20-30%) orng to rdbrn, sft, sbblky to fis, n to sl slty, sl calc.

5,090-
5,120 Siltstone (65-85%) rdbrn orng brngy, frm to hd, arg, sdy, v calc.
Limestone (15-30%) whgy, frm to hd, crpxln, micrite, sl arg, n dol, n to p Ø, NSFOC.
Sandstone (tr to 5%) clr, hd, m gr mod w srt sbang, occ arg.
Anhydrite (tr) wh, sft, amor.

5,120-
5,180 Limestone (50-80%) wh buff gy brn, frm to hd crp to micxln, micrite, sl arg, p to fr intxln Ø, NSFOC.
Siltstone (20-30%) rdbrn to orng, sft to frm, arg, sme vf gr sd.
Anhydrite (tr-5%) wh, sft, amor.

5,180-
5,200 Limestone (40-50%) buff wh gy clr, frm to hd, crp to micxln, micrite, sl arg, tr pyr, p intxln Ø.
Siltstone (50%) rdbrn to orng gybrn, sft to frm, arg, sdy, NSFOC.

5,200-
5,220 Limestone (80-85%) wh brn gy, frm to hd, crp to micxln, micrite, sl arg, p Ø, NSFOC.
Siltstone (15%) rdbrn, sft to frm, occ arg, sdy, calc.
Anhydrite (tr) wh, sft, amor.

5,220-
5,240 Dolomite (80%) gy wh, frm to hd, crp to micxln, n arg, sme fr intxln Ø, NSFOC.
Limestone (5%) wh clr, frm to hd, crpxln, micrite, occ sl arg.
Siltstone (15%) rdbrn to orng sft to frm, occ arg, sdy, calc.

5,240-
5,270 Limestone (65-80%) wh clr brn gy, frm to hd, crp to micxln occ micgran, micrite sme sparite, occ slty occ sdy, arg, NSFOC.
Sandstone (20-30%) clr, hd, m to co gr uncons mod w srt ang to sbrd.

5,270-
5,290 Sandstone (60-80%) clr, hd, m to co gr uncons.
Limestone (15-20%) wh to gy, sft to frm, micxln, micrite, sl sdy, arg, p Ø, NSFOC.

5,290-
5,310 Siltstone (50-60%) gy to gybrn, frm, arg, occ sdy, calc, occ sl dol, occ tr brn o stn, tr dif cut, NF.
Limestone (10-15%) wh occ not/gy, sft, micxln, micrite, sl arg, occ sl dol, p Ø, p intxln Ø, NSFOC.
Sandstone (10-20%) clr to smky, hd, m to co gr uncons mod w srt ang to sbang f gr cons sbang.

Lithology con't.

5,310-
5,330 Limestone (50-70%) wh/brn str gy buff, sft, cro to micxln, micrite/ occ sparite, arg, fr intxln Ø, NSFOC.
Siltstone (20-40%) gybrn, frm to hd, arg calc, tr brn o stn, tr cut, occ sdy grsg to Sandstone.

5,330-
5,340 Siltstone (40-60%) brn, sft, arg, occ sdy, occ calc, sme fr to g dd o stn, NFOC.
Limestone (20%) whbrnstr gy buff, sft, crp to micxln, micrite occ sparite, arg, fr Ø.
Shale brn, sft, blky to sbblky, sl calc.

5,340-
5,390 Limestone (40-70%) wh gy tan buff, sft, crp to micxln occ micgran, micrite/occ sparite, occ arg occ slty, p to fr intxln Ø, NSFOC.
Siltstone (15-40%) gy gybrn, sft, arg, occ calc, occ sdy grdg to Sandstone.
Shale (10-20%) brn gy sft to frm, sbblky slty, sl calc.

5,390-
5,430 Limestone (60-85%) wh gy buff clr, frm to hd, crp to micxln occ micgran, micrite occ sparite, arg occ slty, sme fr to g intxln Ø, NSOFC.
Siltstone (15-20%) rdbrn, frm, arg, occ sdy, occ calc, occ fr Ø, NSFOC.

5,430-
5,440 Limestone (60%) wh brn buff clr, frm to hd, crp to micxln, n arg, p to fr intxln Ø, NSFOC.
Siltstone (20%) rdbrn, frm, arg, occ sdy, occ calc.
Dolomite (20%) blk, hd, micxln to micgran, sl calc, arg, occ sdy, NSFOC.

5,440-
5,470 Dolomite (70-80%) blk, hd, micxln occ micgran, arg, sl calc, fr to g intxln Ø, fr to g brn o stn, fr dif cut.
Limestone (10-15%) wh buff brn clr, frm to hd, crp to micxln, micrite, pr to fr Ø, NSFOC.
Siltstone (10-15%) rdbrn, frm, arg, occ sdy, occ calc.

5,470-
5,480 Dolomite (45%) blk gy, frm to hd, micxln, n to sl arg, fr to g intxln Ø, NSFOC.
Limestone (45%) wh buff clr gy sft to frm, crp to micxln, micrite, sme sparite, p to fr intxln Ø, tr dd o stn, NFOC.
Siltstone (10%) rdbrn, frm, arg, sdy, calc.

5,480-
5,520 Limestone (80-90%) wh clr dkgy brn, frm to hd, micxln occ ool, micrite, occ mod arg, NSFOC.
Siltstone (10-20%) rdbrn to orng sft to frm, arg, occ sdy, sl calc.

5,520-
5,550 Limestone (70%) wh buff tan lt to dk gy, sft to hd, crp to micxln, micrite, arg, p intxln Ø, NSFOC.
Siltstone (20%) rdbrn orng sft to frm, arg, occ sdy, n to sl calc.
Shale (10%) rdgy brngy, sft, blky to sbblky, n to sl calc.

Lithology con't.

5,550-
5,570 Limestone (85-90%) wh buff tan gy, sft to hd, crp to micxln, micrite, arg p Ø, NSFOC.
Siltstone (10-15%) rdbrn orng, sft to frm, arg occ sdy, n to sl calc.

5,570-
5,600 Limestone (95%) whgy, sft to hd, crp to mica xln, micrite occ sparite, occ arg, sl to v dol, p to fr intxln Ø, occ fr gybrn o stn, occ tr dif cut, NF.

5,600-
5,630 Limestone (40-65%) lt to m gy, sft to hd, micxln, micrite w/occ sparite, occ fr Ø.
Dolomite (20-40%) m to dkgy, hd, micxln, arg, fr to occ g intxln Ø, occ tr to fr brn o stn, occ tr dif cut, NF.

5,630-
5,650 Limestone (45-80%) gy gybrn, frm to hd, crp to micxln occ micgran, micrite, sl to v arg sl dol tr gybrn o stn, tr cut, NF.
Shale (15-35%) gy, sft, blky to sbblky, n to sl slty, n to sl calc.
Siltstone (tr-10%) gy gybrn brn, sft, arg, occ calc, occ dol, occ tr o stn, NFOC.

5,650-
5,680 Limestone (90-95%) wh gy, sft to hd, crp to micxln, micrite w/occ sparite, sl to v arg, n dol, NSFOC.

5,680-
5,730 Dolomite (70-90%) dkgy to brn, frm to hd, micxln, v arg, sl to mod calc, fr to g intxln Ø, fr to g brn stn, tr to p blgn dif cut, NF.
limestone (5-25%) gy, sft to hd, micxln, micrite, fr to g Ø, n to fr brn o stn, occ tr dif cut, NF.

5,730-
5,740 Limestone (90%) wh buff gy brn, sft to hd, crpxln, micrite, arg, p ø, NSFOC.

5,740-
5,750 Limestone (55-65%) tan wh brn clr, frm to hd, crp to micxln, micrite, sl arg p intxln Ø, NSFOC.
Dolomite (30%) blk gy, frm to hd, micxln, arg, calc, fr Ø, NSFOC.

5,750-
5,770 Shale (90%) gy, sft to frm, fis to sbblky, n to sl slty, calc.
Limestone (10%) buff wh gy, sft to frm, micxln, micirte, arg, occ fr Ø, NSFOC.

5,770-
5,790 Limestone (90%) wh clr brn gy, sft to frm, cro to micxln, micrite, sl arg, occ p brn o stn, occ p dull yel str cut.

STEEL LINE MEASURE CORRECTION 5,793'--30.42' = 5,763'

Lithology con't.

5,770-
5,780 Dolomite (60-70%) blk gy frm to hd, micxln, arg, occ sl calc, p to fr intxln Ø, NSFOC.
Limestone (30-35%) buff tan gy, frm, crp to micxln, micrite, p intxln Ø, NSFOC.

5,780-
5,800 Limestone (90-95%) gy to dkbrn, frm, crp to micxln occ micgran, micrite, sl to mod arg, p to occ fr intxln Ø, occ brn o stn, occ p to fr resd cut, NF.

5,800-
5,820 Limestone (70-75%) gy to brn to tan, frm to hd, crp to micxln, occ micgran, micrite, sl to mod occ slty, sl to mod dol, occ brn o stn, occ tr dif cut, NF.
Dolomite (15-20%) gy to blk dkbrn, hd, crp to micxln, sl arg, sl calc, occ tr o stn, NFOC.
Shale (tr to 10%) gy, sft, sbfis, to sbblky, sl calc, sl dol.

5,820-
5,860 Limestone (95%)gy wh, sft to hd, crp to micxln, micrite, occ arg, occ slty, sl to mod dol., sme p to fr intxln Ø, NSFOC.

5,960-
5,880 Dolomite (10-25%) m to dkgy, hd, crpxln sl arg, sl calc, n Ø, NSFOC.
Limestone (70-85%) w gy, sft to frm, micxln, occ crpxln, micrite, sl arg, sl dol, n to p intxln Ø, NSFOC.

5,880-
5,900 Limestone (60-90%) wh gy, sft to frm, micxln, micrite, sl arg, n to p Ø, NSFOC.
Shale (10-15%) blk gy, sft, fis to blky, occ sl calc.

5,900-
5,960 Very poor samples - cavings.
Limestone wh gy gybrn tan buff, sft to hd, crp to micxln, micrite, occ sparite, occ sl arg, occ fr intxln Ø, NSFOC.
Shale - gy to blk, sft, sbblky, occ splty, moc calc.

5,960-
6,000 Limestone (95%) wh buff brn gy, frm to hd crp to micxln, micrite, n to sl arg, p intxln Ø, NSFOC.

6,000-
6,030 Limestone (65-85%) wh gy brn clr, sft to hd, crp to micxln, micrite, w/occ sparite, occ sl arg, n to p Ø, NSFOC.
Shale (10-25%) blk to dkgy, sft, blky, occ splty, n slty.

6,030-
6,060 Limestone (85-95%) wh gy, sft to frm, micxln, mcrite, w/sme sparite, occ sl arg occ sl dol occ fr intxln Ø, tr fos, NSFOC.
Shale (tr-7%) blk, sft, splty, sbblky to fis, sl to mod calc, sl dol.
Anhydrite (tr) wh, sft, amor.

Lithology con't.

6,060-
6,070 Limestone (45%) wh gy to gybrn, sft to frm, crp to icxln, micirite, sl to mod arg, n dol, occ fr intxln Ø, NSFOC.
Shale (40%) gy blk, sft, sbblky to fis, n slty, calc, sl dol.
Anhydrite (tr) wh, sft to hd, amor to xln.

6,070-
6,150 Shale (95%) blk to dkgy, sft to frm, sbblky to fis, calc, sl dol.
Limestone (10-25%) wh gy buff, sft to frm, micxln, micirtie, sl arg, occ fr to g intxln Ø, NSFOC.
Anhydrite (tr) wh, sft, amor to plty, psuedomorph Gypsum.

6,160-
6,190 Limestone (55-70%) wh gy buff, sft to frm, micxln, micrite, sl arg, occ fr to g intxln Ø, NSFOC.
Shale (20-35%) blk, sft to frm, blky to sbfis, occ spltv occ calc.
Anhydrite (5%) wh, sft to hd, amor to xln occ pltv.

6,190-
6,210 Limestone (85-90%) wh gy brn sft to hd, crp to micxln, micrite, occ arg, sme fr Ø, NSFOC.
Shale (5-10%) blk sft blky to sbfis, occ splty occ calc.

6,210-
6,230 Limestone (30-45%) gy wh sft to frm, crp to micxln, micrite, occ arg, n dol, NSFOC.
Shale (60-65%) blk gy, fis to sbblky, slty, calc.

6,230-
6,260 Shale (60-90%) dkgy to blk, sft to frm, sbfis to blky, calc.
Limestone gy to gybrn wh, frm to hd, crp to micxln, micrite, occ dol, sl arg, p intxln Ø, NSFOC.

6,260-
6,290 Shale (15-30%) blk dk gy, sft to frm, sbfis to blky, calc.
Limestone (55-75%) buff wh tan gy, sft to hd, crp to micxln, occ mic-gran, micrite w/sme sparite, sl arg, occ dol, occ fr to g intxln Ø, NSFOC.
Anhydrite (tr-10%) wh, sft, amor.

6,290-
6,300 Limestone (55%) wh, gy buff tan, sft to hd, crp to micxln, micrite, occ arg, n dol, p to occ fr intxln Ø, NSFOC.
Shale gy blk, sft to frm, blky to fis, sl slty, occ dol, occ calc.
Anhydrite (tr) wh, sft, amor.

6,300-
6,350 SEE CORE DESCRIPTIONS

Lithology con't.

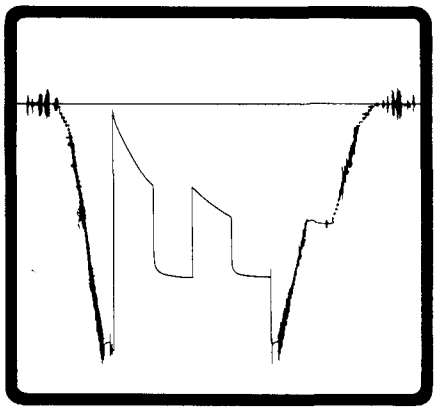
6,350-
6,360 Very Poor Samples
Shale (90%) blk, frm to hd, sbbl y to fis, splty, sl calc to sl dol, NSFOC.

6,360-
6,380 Shale (45%) blk, frm to hd, sbblky to fis splty, sl calc to sl dol, NSFOC.
Limestone (45-50%) wh gy, sft to hd, crp to micxln, micrite, occ arg, p Ø, NSFOC.

6,380-
6,390 Limestone (80%) wh gy, sft to hd, crp to icxln, micrite, occ arg, p intxln Ø, NSFOC.
Shalr (15%) blk, frm occ hd sbblky fis to splty, sl calc to sl dol, NSFOC.
Anhydrite (5%) wh, sft amor to xln.

6,390-
6,394 VERY POOR SAMPLES - CAVINGS.

FORMATION TESTING SERVICE REPORT



HALLIBURTON SERVICES

Duncan, Oklahoma 73536

A Halliburton Company

1296-R5 ©—Southwestern

NOMENCLATURE

B	=	Formation Volume Factor (Res Vol / Std Vol)	—
c_t	=	System Total Compressibility	(Vol / Vol) / psi
DR	=	Damage Ratio	—
h	=	Estimated Net Pay Thickness	Ft
k	=	Permeability	md
m	=	(Liquid) Slope Extrapolated Pressure Plot	psi/cycle
		(Gas) Slope Extrapolated m(P) Plot	MM psi^2/cp/cycle
$m(P^*)$	=	Real Gas Potential at P^*	MM psi^2/cp
$m(P_f)$	=	Real Gas Potential at P_f	MM psi^2/cp
AOF_1	=	Maximum Indicated Absolute Open Flow at Test Conditions	MCFD
AOF_2	=	Minimum Indicated Absolute Open Flow at Test Conditions	MCFD
P^*	=	Extrapolated Static Pressure	Psig
P_f	=	Final Flow Pressure	Psig
Q	=	Liquid Production Rate During Test	BPD
Q_1	=	Theoretical Liquid Production w/ Damage Removed	BPD
Q_g	=	Measured Gas Production Rate	MCFD
r_i	=	Approximate Radius of Investigation	Ft
r_w	=	Radius of Well Bore	Ft
S	=	Skin Factor	
t	=	Total Flow Time Previous to Closed-in	Minutes
Δt	=	Closed-in Time at Data Point	Minutes
T	=	Temperature Rankine	°R
ϕ	=	Porosity	—
μ	=	Viscosity of Gas or Liquid	cp
Log	=	Common Log	

531

LEASE NAME	WELL NO.	TEST NO.	TESTED INTERVAL
BUGG	25	1	5738.' - 5896.'

LEGAL LOCATION SEC. - TWP. - RNG.	FIELD AREA	COUNTY	STATE	LEASE OWNER/COMPANY NAME
18-36S-26E	BUGG	SAN JUAN	UTAH	CELSIUS ENERGY COMPANY

HALLIBURTON

SERVICES

TICKET NO. 69017200

14-FEB-85

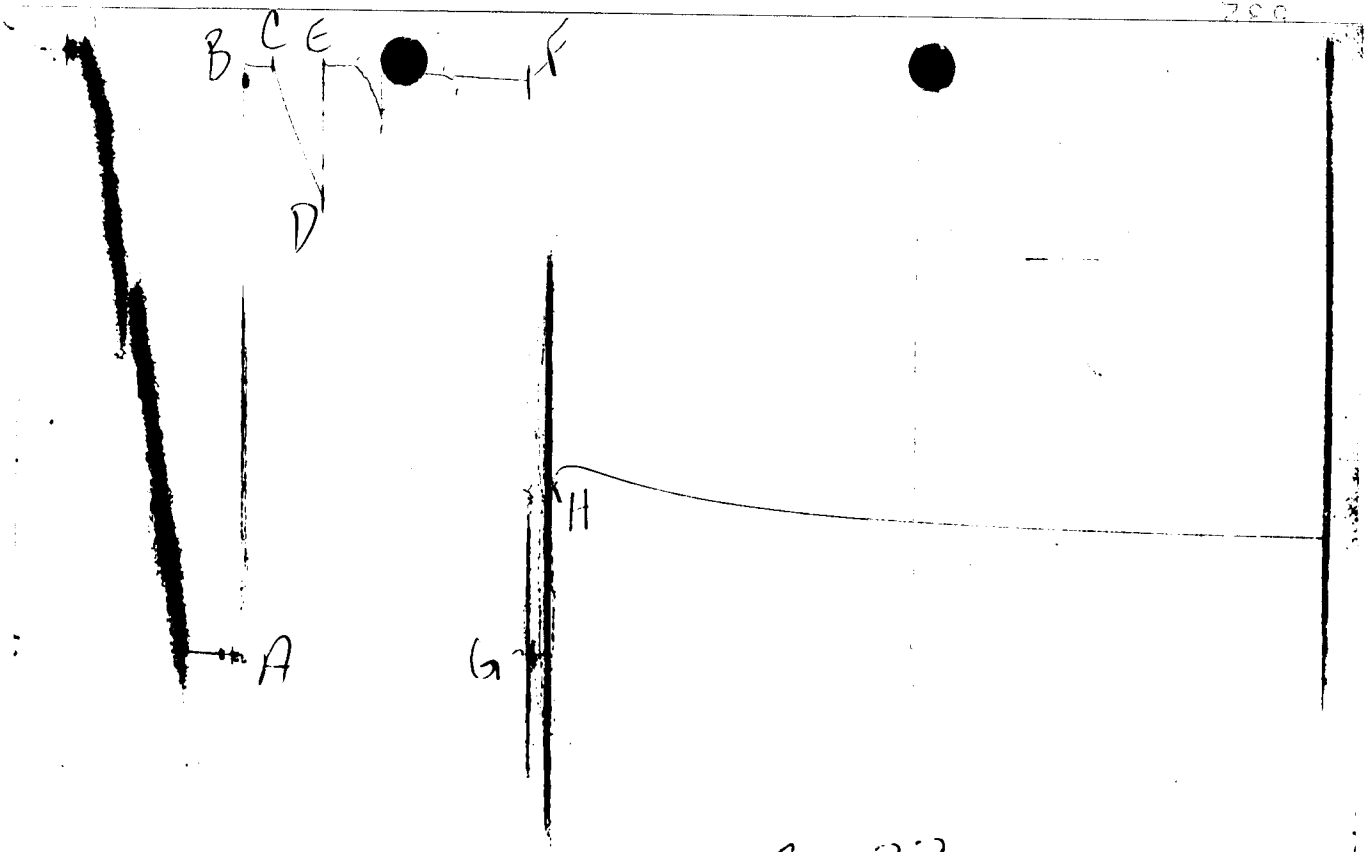
FARMINGTON

RECEIVED

FEB 25 1985

DIVISION OF OIL
GAS & MINING

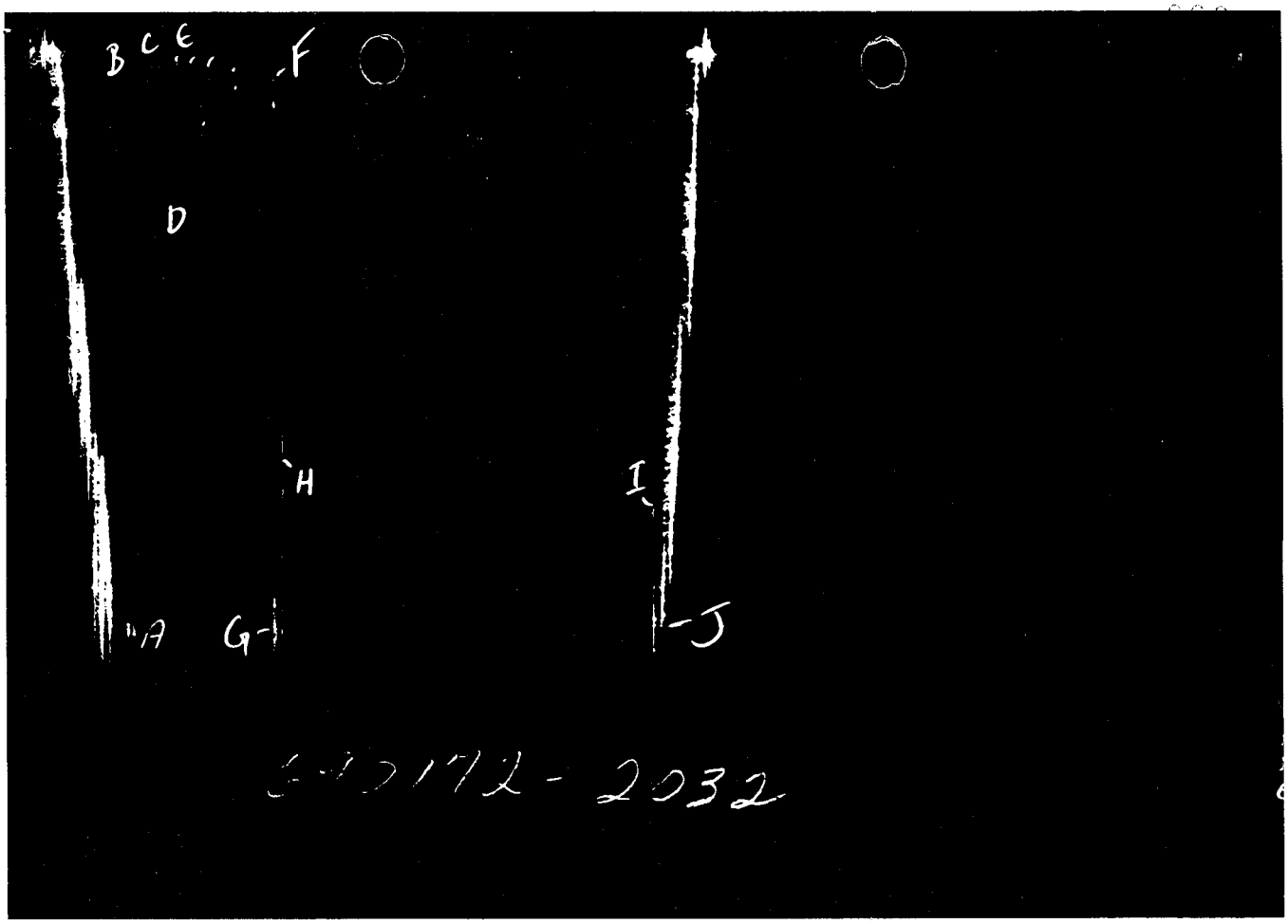
FORMATION TESTING SERVICE REPORT



690172-2033

GAUGE NO: 2033 DEPTH: 5734.2 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	3012	3025.9			
B	INITIAL FIRST FLOW	53	61.0	30.0	32.7	F
C	FINAL FIRST FLOW	66	67.2			
C	INITIAL FIRST CLOSED-IN	66	67.2	60.0	56.8	C
D	FINAL FIRST CLOSED-IN	720	730.6			
E	INITIAL SECOND FLOW	53	42.9	230.0	230.5	F
F	FINAL SECOND FLOW	133	127.5			
G	HYDROSTATIC	2985	3016.1			
H	INITIAL SECOND CLOSED-IN		2157.6	907.0		C
I	FINAL SECOND CLOSED-IN					
J	FINAL HYDROSTATIC					



GAUGE NO: 2032 DEPTH: 5744.6 BLANKED OFF: YES HOUR OF CLOCK: 48

ID	DESCRIPTION	PRESSURE REPORTED	PRESSURE CALCULATED	TIME REPORTED	TIME CALCULATED	TYPE
A	INITIAL HYDROSTATIC	3021	3044.3			
B	INITIAL FIRST FLOW	53	76.4	30.0	32.7	F
C	FINAL FIRST FLOW	66	69.9			
C	INITIAL FIRST CLOSED-IN	66	69.9	60.0	56.8	C
D	FINAL FIRST CLOSED-IN	718	737.2			
E	INITIAL SECOND FLOW	53	54.4	230.0	230.5	F
F	FINAL SECOND FLOW	133	138.7			
G	HYDROSTATIC	3021	3033.8			
H	INITIAL SECOND CLOSED-IN		2172.1	907.0	880.8	C
I	FINAL SECOND CLOSED-IN		2416.0			
J	FINAL HYDROSTATIC		3010.8			

EQUIPMENT & HOLE DATA

FORMATION TESTED: LOWER ISMAY
NET PAY (ft): 21.0
GROSS TESTED FOOTAGE: 158.0
ALL DEPTHS MEASURED FROM: KELLY BUSHING
CASING PERFS. (ft):
HOLE OR CASING SIZE (in): 5.500
ELEVATION (ft): 6208
TOTAL DEPTH (ft): 5896.0
PACKER DEPTH(S) (ft): 5738
FINAL SURFACE CHOKE (in): 0.125
BOTTOM HOLE CHOKE (in): 0.440
MUD WEIGHT (lb/gal): 10.00
MUD VISCOSITY (sec):
ESTIMATED HOLE TEMP. (°F): 135
ACTUAL HOLE TEMP. (°F): ___ @ ___ ft

TICKET NUMBER: 69017200
DATE: 2-4-85 TEST NO: 1
TYPE DST: CASED HOLE
HALLIBURTON CAMP: FARMINGTON
TESTER: H. BELL
WITNESS: BOB CRISTOFERSON
DRILLING CONTRACTOR: N.L. POOL

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
RECOVERY	0.280 @ 74 °F	15151 ppm
PIT	0.080 @ 24 °F	___ ppm
	___ @ ___ °F	___ ppm
	___ @ ___ °F	___ ppm
	___ @ ___ °F	___ ppm
	___ @ ___ °F	___ ppm

SAMPLER DATA

Psig AT SURFACE:
cu.ft. OF GAS:
cc OF OIL:
cc OF WATER:
cc OF MUD:
TOTAL LIQUID cc:

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): ___ @ ___ °F
GAS/OIL RATIO (cu.ft. per bbl):
GAS GRAVITY:

CUSHION DATA

TYPE	AMOUNT	WEIGHT

RECOVERED:

210 FEET OF WATER WITH TRACE OF OIL

MEASURED FROM TESTER VALVE

REMARKS:

NET PAY IS FROM 5792' - 5813'.

CHART TIME EXPIRED ON GAUGE #2033 PRIOR TO THE CONCLUSION OF THE FINAL CLOSED IN PRESSURE PERIOD.

TYPE & SIZE MEASURING DEVICE: MANIFOLD | TICKET NO: 69017200

TIME	CHOKE SIZE	SURFACE PRESSURE PSI	GAS RATE MCF	LIQUID RATE BPD	REMARKS
2-4-85					
0730					ON LOCATION
1110	1/8"BH	0			OPENED TOOL WITH GOOD BLOW
1115		6			GOOD BLOW
1120		8			GOOD BLOW
1125		9			GOOD BLOW
1140		9.5			GOOD BLOW - CLOSED TOOL
1240	1/8"BH	0			OPENED TOOL WITH GOOD BLOW
1245		4			GOOD BLOW
1250	3/8"	4.5			GAS TO SURFACE
1255	13/64"	3			GOOD BLOW
1310		3			SAME
1325	8/64"	2.5			SAME
1355		5			SAME
1425		7.5			SAME
1455		9.5			SAME
1525		10			SAME
1555		10			SAME
1630		10			CLOSED TOOL
1635					BYPASS WAS OPEN
1638					RESET PACKER
2-5-85					
0745					RELEASED PACKER
1010					TOOLS OUT OF HOLE

TICKET NO: 69017200	HALLIBURTON SERVICES	GAUGE NO: 2033
CLOCK NO: 9756 HOUR: 24		DEPTH: 5734.2

FIRST FLOW

REF		MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t+\Delta t}$	$\log \frac{t+\Delta t}{\Delta t}$
B	1	0.0	61.0			
	2	2.0	62.3	1.3		
	3	4.0	66.7	4.4		
	4	6.0	69.0	2.3		
	5	8.0	70.5	1.5		
	6	10.0	72.6	2.1		
	7	12.0	72.7	0.1		
	8	14.0	73.0	0.3		
	9	16.0	73.0	0.0		
	10	18.0	72.7	-0.3		
	11	20.0	73.1	0.4		
	12	22.0	73.4	0.3		
	13	24.0	73.4	0.0		
	14	26.0	73.7	0.3		
	15	28.0	74.1	0.4		
	16	30.0	74.2	0.1		
C	17	32.7	67.2	-7.0		

FIRST CLOSED-IN

REF		MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t+\Delta t}$	$\log \frac{t+\Delta t}{\Delta t}$
C	1	0.0	67.2			
	2	1.0	77.0	9.8	1.0	1.532
	3	2.0	92.1	24.9	1.9	1.244
	4	3.0	108.4	41.2	2.7	1.076
	5	4.0	121.0	53.7	3.5	0.967
	6	5.0	136.9	69.7	4.4	0.875
	7	6.0	150.5	83.3	5.1	0.810
	8	7.0	163.1	95.9	5.8	0.754
	9	8.0	175.9	108.7	6.4	0.706
	10	9.0	191.8	124.6	7.0	0.667
	11	10.0	212.3	145.1	7.7	0.630
	12	12.0	242.6	175.4	8.8	0.571
	13	14.0	266.8	199.6	9.8	0.523
	14	16.0	292.0	224.7	10.8	0.483
	15	18.0	317.1	249.9	11.6	0.450
	16	20.0	340.2	273.0	12.4	0.421
	17	22.0	364.2	296.9	13.1	0.396
	18	24.0	386.8	319.5	13.8	0.373
	19	26.0	410.4	343.2	14.5	0.353
	20	28.0	430.3	363.1	15.1	0.336
	21	30.0	449.9	382.6	15.6	0.320
	22	35.0	505.2	437.9	16.9	0.287
	23	40.0	559.5	492.3	18.0	0.259
	24	45.0	609.3	542.0	18.9	0.237
	25	50.0	659.8	592.6	19.8	0.219
	26	55.0	710.6	643.4	20.5	0.203
D	27	56.8	730.6	663.4	20.7	0.197

SECOND FLOW

REF		MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t+\Delta t}$	$\log \frac{t+\Delta t}{\Delta t}$
E	1	0.0	42.9			
	2	10.0	67.2	24.3		
	3	20.0	65.4	-1.9		
	4	30.0	65.1	-0.3		
[1]	5	35.8	66.2	1.1		
	6	40.0	82.6	16.4		
	7	50.0	133.4	50.8		
	8	60.0	237.4	104.0		
[2]	9	63.3	329.9	92.5		
[3]	10	69.2	81.8	-248.1		
	11	70.0	82.4	0.5		
	12	80.0	87.4	5.1		
	13	90.0	91.4	4.0		
	14	100.0	95.6	4.1		
	15	110.0	99.2	3.6		
	16	120.0	102.5	3.3		
	17	130.0	105.9	3.3		
[1]	18	135.9	106.8	0.9		
	19	140.0	116.8	10.0		
[2]	20	145.3	130.7	13.9		
[3]	21	149.9	109.9	-20.9		
	22	160.0	112.3	2.4		
	23	170.0	115.1	2.8		
	24	180.0	118.7	3.6		
	25	190.0	120.2	1.5		
	26	200.0	123.1	2.9		
	27	210.0	124.9	1.7		
	28	220.0	127.5	2.7		
F	29	230.5	127.5	0.0		

SECOND CLOSED-IN

REF		MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t+\Delta t}$	$\log \frac{t+\Delta t}{\Delta t}$
H	1	0.0	2157.6			
[3]	2	25.0	2062.0	-95.6	22.9	1.061
	3	26.0	2062.7	-94.9	23.7	1.046
	4	27.0	2063.2	-94.4	24.5	1.032
	5	28.0	2063.6	-94.0	25.3	1.017
	6	29.0	2063.7	-93.9	26.1	1.003
	7	30.0	2064.8	-92.8	26.9	0.990
	8	31.0	2065.5	-92.1	27.7	0.977
	9	32.0	2066.3	-91.3	28.5	0.965
	10	33.0	2067.3	-90.3	29.3	0.954
	11	34.0	2068.5	-89.1	30.1	0.942
	12	35.0	2069.7	-87.9	30.9	0.931
	13	37.0	2071.7	-85.9	32.5	0.909
	14	39.0	2074.4	-83.2	33.9	0.890
	15	41.0	2077.7	-79.9	35.4	0.871
	16	43.0	2080.5	-77.1	37.0	0.853
	17	45.0	2083.2	-74.4	38.4	0.836

LEGEND:
[1] APPARENT SURFACE CLOSURE
[2] APPARENT OPENED AT SURFACE
[3] END OF BLEED-OFF
[4] CHART TIME EXPIRED

REMARKS:
BYPASS WAS OPEN AT END OF SECOND FLOW.

TICKET NO: 69017200	HALLIBURTON SERVICES	GAUGE NO: 2032
CLOCK NO: 18775 HOUR: 48		DEPTH: 5744.6

FIRST FLOW

REF		MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t+\Delta t}$	$\log \frac{t+\Delta t}{\Delta t}$
B	1	0.0	76.4			
	2	2.0	75.9	-0.5		
	3	4.0	76.3	0.4		
	4	6.0	76.8	0.5		
	5	8.0	77.7	0.9		
	6	10.0	78.5	0.8		
	7	12.0	78.9	0.4		
	8	14.0	79.5	0.5		
	9	16.0	79.7	0.3		
	10	18.0	79.9	0.1		
	11	20.0	80.0	0.1		
	12	22.0	80.0	0.0		
	13	24.0	80.0	0.0		
	14	26.0	80.0	0.0		
	15	28.0	80.1	0.1		
	16	30.0	80.5	0.4		
C	17	32.7	69.9	-10.7		

FIRST CLOSED-IN

REF		MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t+\Delta t}$	$\log \frac{t+\Delta t}{\Delta t}$
C	1	0.0	69.9			
	2	1.0	97.7	27.9	1.0	1.519
	3	2.0	110.5	40.7	1.9	1.231
	4	3.0	122.3	52.4	2.7	1.076
	5	4.0	138.1	68.3	3.6	0.961
	6	5.0	152.5	82.7	4.4	0.874
	7	6.0	163.5	93.6	5.1	0.810
	8	7.0	179.1	109.2	5.8	0.753
	9	8.0	191.1	121.2	6.4	0.707
	10	9.0	205.5	135.6	7.1	0.666
	11	10.0	217.6	147.7	7.7	0.630
	12	12.0	244.5	174.7	8.8	0.571
	13	14.0	266.1	196.3	9.8	0.524
	14	16.0	296.1	226.3	10.7	0.483
	15	18.0	320.1	250.3	11.6	0.450
	16	20.0	346.7	276.8	12.4	0.421
	17	22.0	370.8	300.9	13.1	0.396
	18	24.0	392.5	322.7	13.8	0.373
	19	26.0	416.3	346.4	14.5	0.354
	20	28.0	438.7	368.8	15.1	0.336
	21	30.0	461.3	391.5	15.6	0.320
	22	35.0	516.9	447.1	16.9	0.286
	23	40.0	569.4	499.6	18.0	0.259
	24	45.0	624.3	554.5	18.9	0.237
	25	50.0	672.6	602.8	19.8	0.218
	26	55.0	725.0	655.1	20.5	0.203
D	27	56.8	737.2	667.3	20.7	0.197

SECOND FLOW

REF		MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t+\Delta t}$	$\log \frac{t+\Delta t}{\Delta t}$
E	1	0.0	54.4			
	2	10.0	73.7	19.3		
	3	20.0	72.9	-0.8		
	4	30.0	73.6	0.7		
[1]	5	35.8	76.1	2.5		
	6	40.0	92.1	16.0		
	7	50.0	145.6	53.5		
	8	60.0	272.3	126.7		
[2]	9	63.3	333.3	61.1		
[3]	10	69.2	95.9	-237.5		
	11	70.0	96.4	0.5		
	12	80.0	99.1	2.7		
	13	90.0	102.7	3.6		
	14	100.0	106.0	3.3		
	15	110.0	110.1	4.1		
	16	120.0	112.4	2.3		
	17	130.0	114.9	2.5		
[1]	18	135.9	117.5	2.5		
	19	140.0	124.5	7.1		
[2]	20	145.3	138.0	13.5		
[3]	21	149.9	124.0	-14.0		
	22	160.0	124.5	0.5		
	23	170.0	126.1	1.6		
	24	180.0	129.3	3.2		
	25	190.0	131.5	2.1		
	26	200.0	133.3	1.9		
	27	210.0	135.7	2.4		
	28	220.0	137.3	1.6		
F	29	230.5	138.7	1.3		

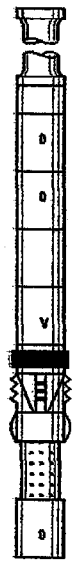
SECOND CLOSED-IN

REF		MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t+\Delta t}$	$\log \frac{t+\Delta t}{\Delta t}$
H	1	0.0	2172.1			
[3]	2	25.0	2079.7	-92.4	22.8	1.063
	3	26.0	2079.9	-92.2	23.7	1.046
	4	27.0	2080.5	-91.6	24.5	1.031
	5	28.0	2080.9	-91.2	25.3	1.018
	6	29.0	2081.3	-90.8	26.1	1.003
	7	30.0	2081.8	-90.3	26.9	0.990
	8	31.0	2082.6	-89.5	27.7	0.977
	9	32.0	2083.1	-89.0	28.6	0.965
	10	33.0	2084.0	-88.0	29.4	0.952
	11	34.0	2085.4	-86.7	30.1	0.941
	12	35.0	2086.6	-85.5	30.9	0.930
	13	37.0	2088.7	-83.4	32.4	0.909
	14	39.0	2091.2	-80.9	34.0	0.889
	15	41.0	2093.2	-78.9	35.4	0.871
	16	43.0	2096.0	-76.1	37.0	0.852
	17	45.0	2098.4	-73.7	38.5	0.835
	18	47.0	2101.1	-71.0	39.9	0.819

LEGEND:
[1] APPARENT SURFACE CLOSURE [2] APPARENT OPENED AT SURFACE [3] END OF BLEED-OFF

REMARKS:
BYPASS WAS OPEN AT END OF SECOND FLOW PERIOD.

TICKET NO. 69017200



		O.D.	I.D.	LENGTH	DEPTH
2	TUBING.....	2.875	2.441	5719.9	
5	CROSSOVER.....	2.875	2.441	0.7	
12	DUAL CIP VALVE.....	3.000	0.440	5.4	
60	HYDROSPRING TESTER.....	3.000	0.500	4.1	5732.1
80	AP RUNNING CASE.....	3.000	1.600	4.1	5734.2
16	VR SAFETY JOINT.....	3.000	0.500	2.8	
71	CASING PACKER.....	4.500	1.900	3.0	5738.0
21	PERFORATED TAIL PIPE.....	2.375	1.995	4.1	
81	BLANKED-OFF RUNNING CASE.....	3.000		4.5	5744.6
	TOTAL DEPTH				5896.0

EQUIPMENT DATA

207

LEGAL LOCATION SEC. - TWP. - RNG.	FIELD AREA	COUNTY	STATE
18 36S 26E	BUGG	SAN JUAN	UTAH SM

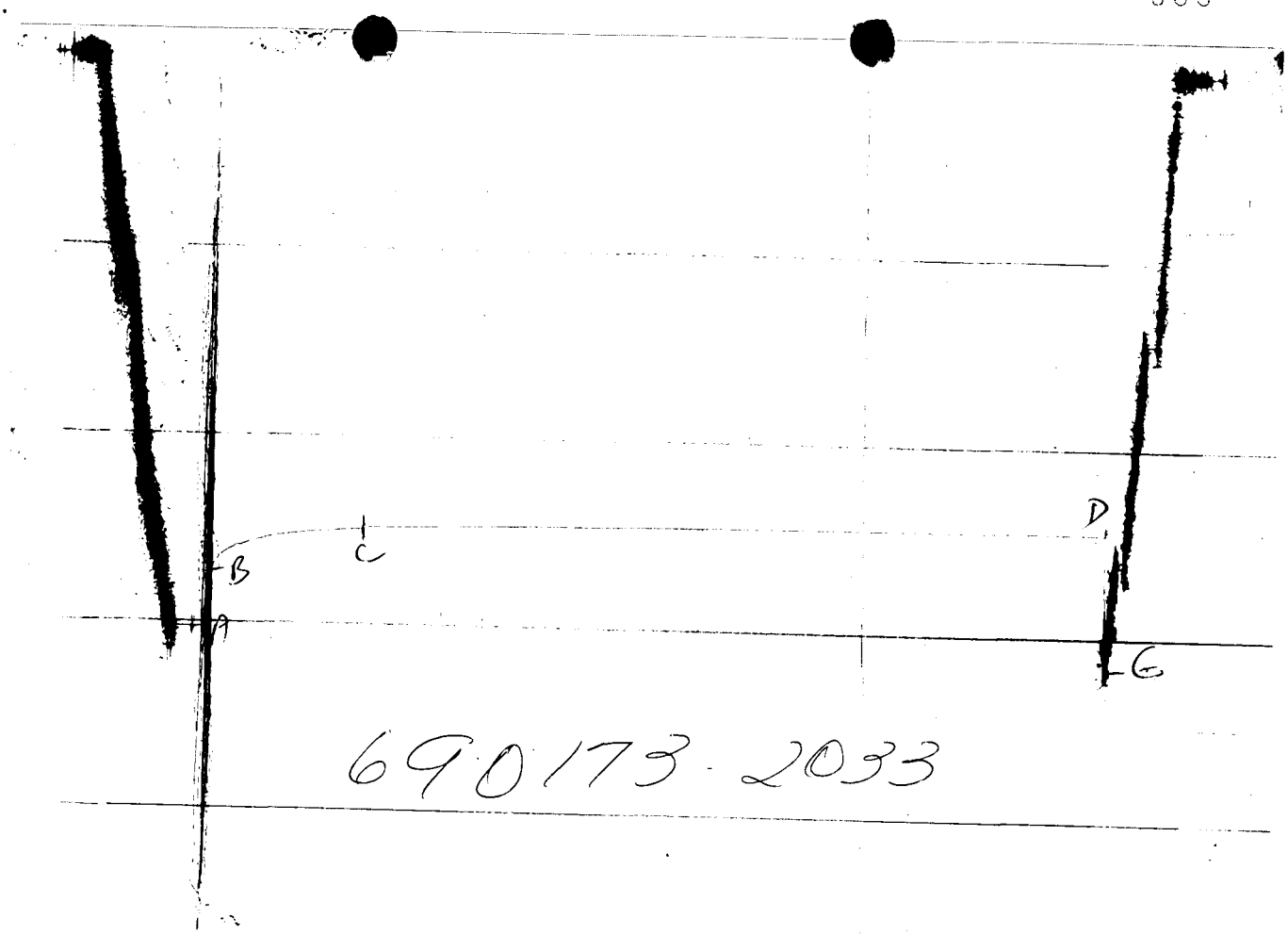
LEASE NAME	WELL NO.	TEST NO.	TESTED INTERVAL	LEASE OWNER/COMPANY NAME
BUGG	25	2	5738.' - 5896.'	CELSIUS ENERGY COMPANY

HALLIBURTON
SERVICES

TICKET NO. 69017300
14-FEB-85
FARMINGTON

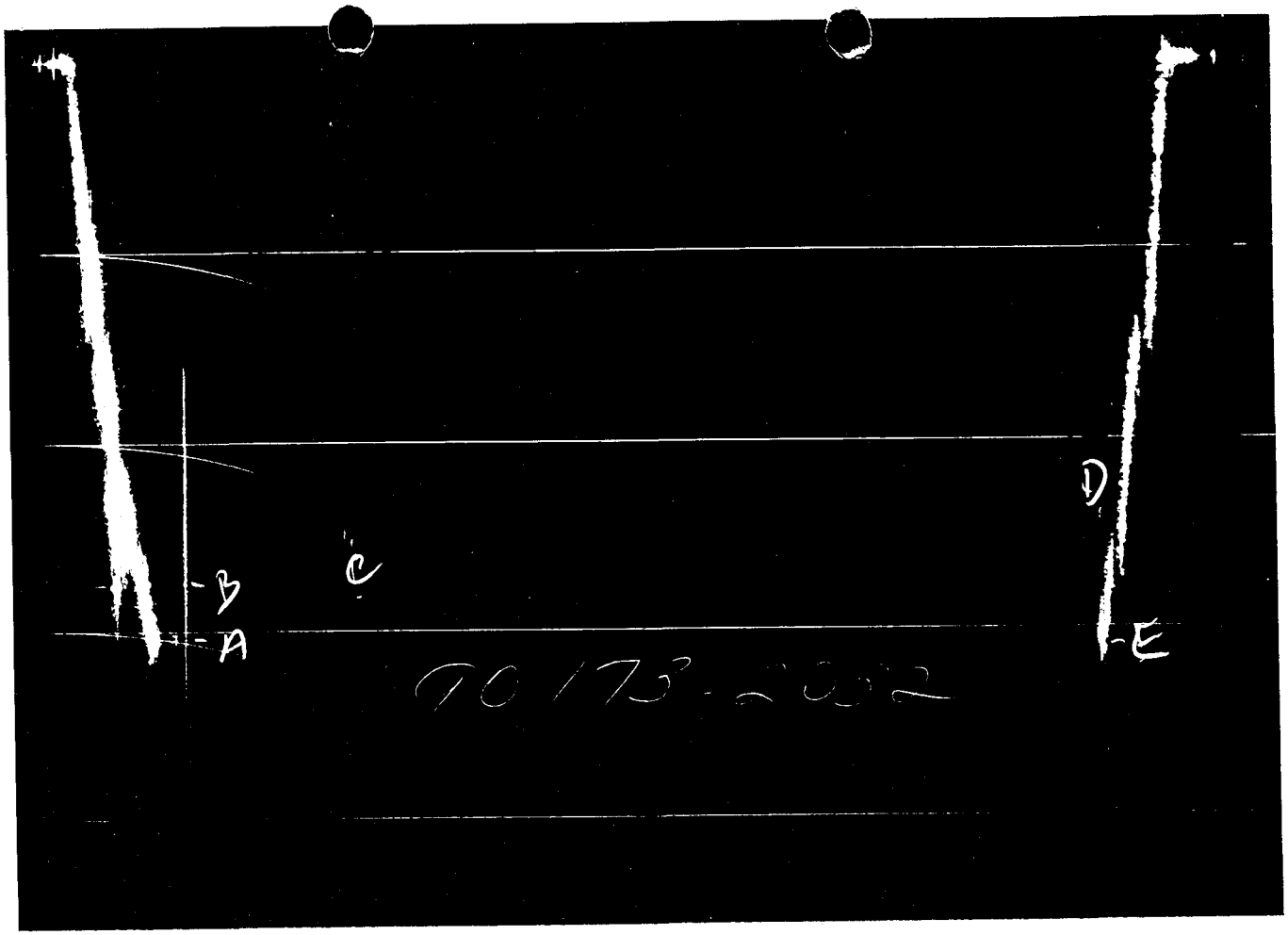
RECEIVED
FEB 25 1985
DIVISION OF OIL
GAS & MINING

FORMATION TESTING SERVICE REPORT



GAUGE NO: 2033 DEPTH: 5734.2 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	3038	3039.3			
B	INITIAL FIRST FLOW		2741.6	195.0	195.0	F
C	FINAL FIRST FLOW		2505.1			
C	INITIAL FIRST CLOSED-IN		2505.1	900.0	900.0	C
D	FINAL FIRST CLOSED-IN		2451.9			
E	FINAL HYDROSTATIC	3038	3039.3			



GAUGE NO: 2032 DEPTH: 5744.6 BLANKED OFF: YES HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE REPORTED	PRESSURE CALCULATED	TIME REPORTED	TIME CALCULATED	TYPE
A	INITIAL HYDROSTATIC	3047	3055.5			
B	INITIAL FIRST FLOW		2745.5	195.0	195.0	F
C	FINAL FIRST FLOW		2510.5			
C	INITIAL FIRST CLOSED-IN		2510.5	900.0	900.0	C
D	FINAL FIRST CLOSED-IN		2471.1			
E	FINAL HYDROSTATIC	3047	3055.6			

EQUIPMENT & HOLE DATA

FORMATION TESTED: LOWER ISMAY
NET PAY (ft): 21.0
GROSS TESTED FOOTAGE: 158.0
ALL DEPTHS MEASURED FROM: KELLY BUSHING
CASING PERFS. (ft): 5792-5813'
HOLE OR CASING SIZE (in): 5.500
ELEVATION (ft): 6208
TOTAL DEPTH (ft): 5896.0
PACKER DEPTH(S) (ft): 5738
FINAL SURFACE CHOKE (in):
BOTTOM HOLE CHOKE (in): 0.440
MUD WEIGHT (lb/gal): 10.00
MUD VISCOSITY (sec):
ESTIMATED HOLE TEMP. (°F): 135
ACTUAL HOLE TEMP. (°F): ___ @ ___ ft

TICKET NUMBER: 69017300
DATE: 2-6-85 TEST NO: 2
TYPE DST: CASED HOLE
HALLIBURTON CAMP: FARMINGTON
TESTER: H. BELL
WITNESS: BOB CRISTOFERSON
DRILLING CONTRACTOR: NL/ POOL

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
PIT	0.080 @ 24 °F	___ ppm
	___ @ ___ °F	___ ppm
	___ @ ___ °F	___ ppm
	___ @ ___ °F	___ ppm
	___ @ ___ °F	___ ppm
	___ @ ___ °F	___ ppm

SAMPLER DATA

Psig AT SURFACE:
cu.ft. OF GAS:
cc OF OIL:
cc OF WATER:
cc OF MUD:
TOTAL LIQUID cc:

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): ___ @ ___ °F
GAS/OIL RATIO (cu.ft. per bbl):
GAS GRAVITY:

CUSHION DATA

TYPE	AMOUNT	WEIGHT

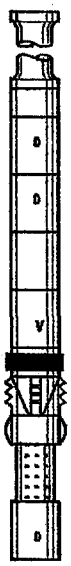
RECOVERED:

MEASURED FROM TESTER VALVE

REMARKS:

THE CHARTS INDICATE THE WELL WAS NOT ACTUALLY OPEN TO FLOW. THE PRESSURES READ FOR THE FLOW PERIOD AND CIP PERIOD ARE NOT VALID.

TICKET NO. 69017300



		O.D.	I.D.	LENGTH	DEPTH
2	TUBING.....	2.875	2.441	5719.9	
5	CROSSOVER.....	2.875	2.441	0.7	
12	DUAL CIP VALVE.....	3.000	0.440	5.4	
60	HYDROSPRING TESTER.....	3.000	0.500	4.1	5732.1
80	AP RUNNING CASE.....	3.000	2.250	4.1	5734.2
16	VR SAFETY JOINT.....	3.000	0.500	2.8	
71	CASING PACKER.....	4.500	1.900	3.0	5738.0
21	PERFORATED TAIL PIPE.....	2.375	1.995	4.1	
81	BLANKED-OFF RUNNING CASE.....	3.000		4.5	5744.6
	TOTAL DEPTH				5896.0

EQUIPMENT DATA

437

BUGG	25	3	5738.' - 5896.'
LEASE NAME	WELL NO.	TEST NO.	TESTED INTERVAL

LEGAL LOCATION SEC. - TWP. - RNG. 18 - 36 SOUTH - 26 EAST	FIELD AREA BUGG	COUNTY SAN JUAN	STATE UTAH

CELSIUS ENERGY COMPANY
LEASE OWNER/COMPANY NAME

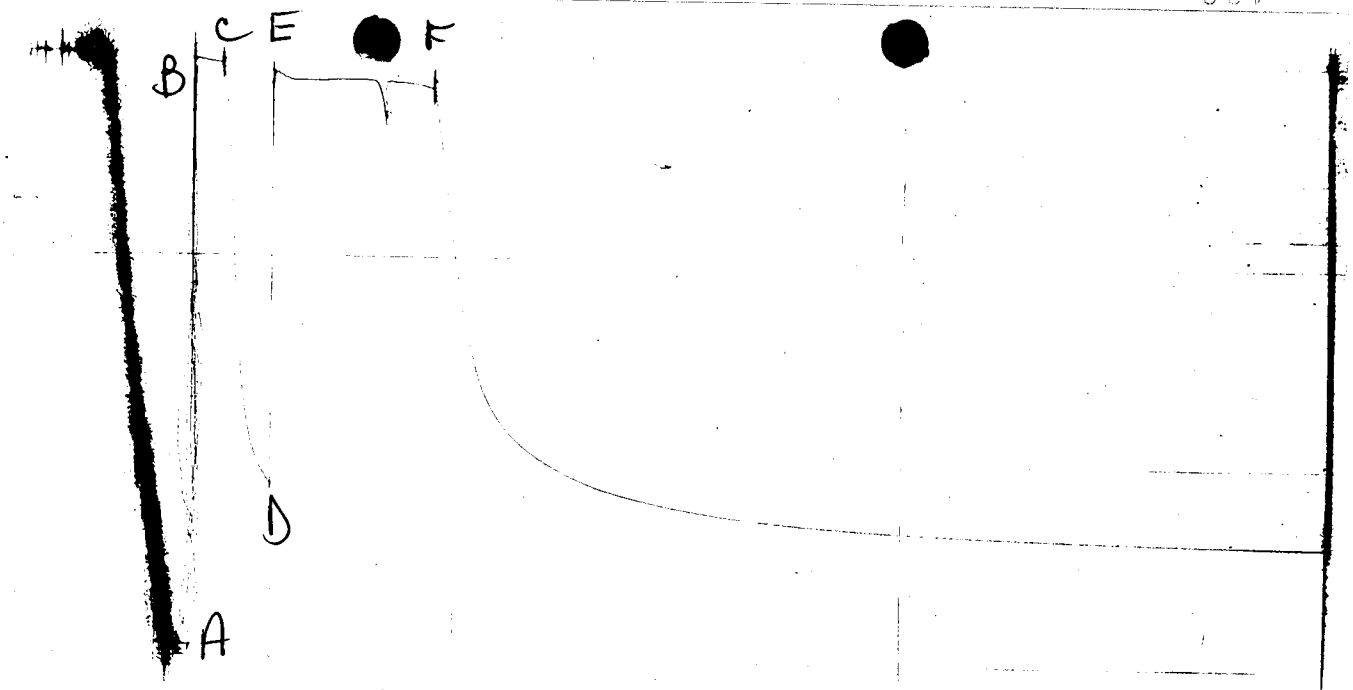
PM

HALLIBURTON
SERVICES

TICKET NO. 69017400
13-FEB-85
FARMINGTON

RECEIVED
FEB 25 1985
DIVISION OF OIL
GAS & MINING

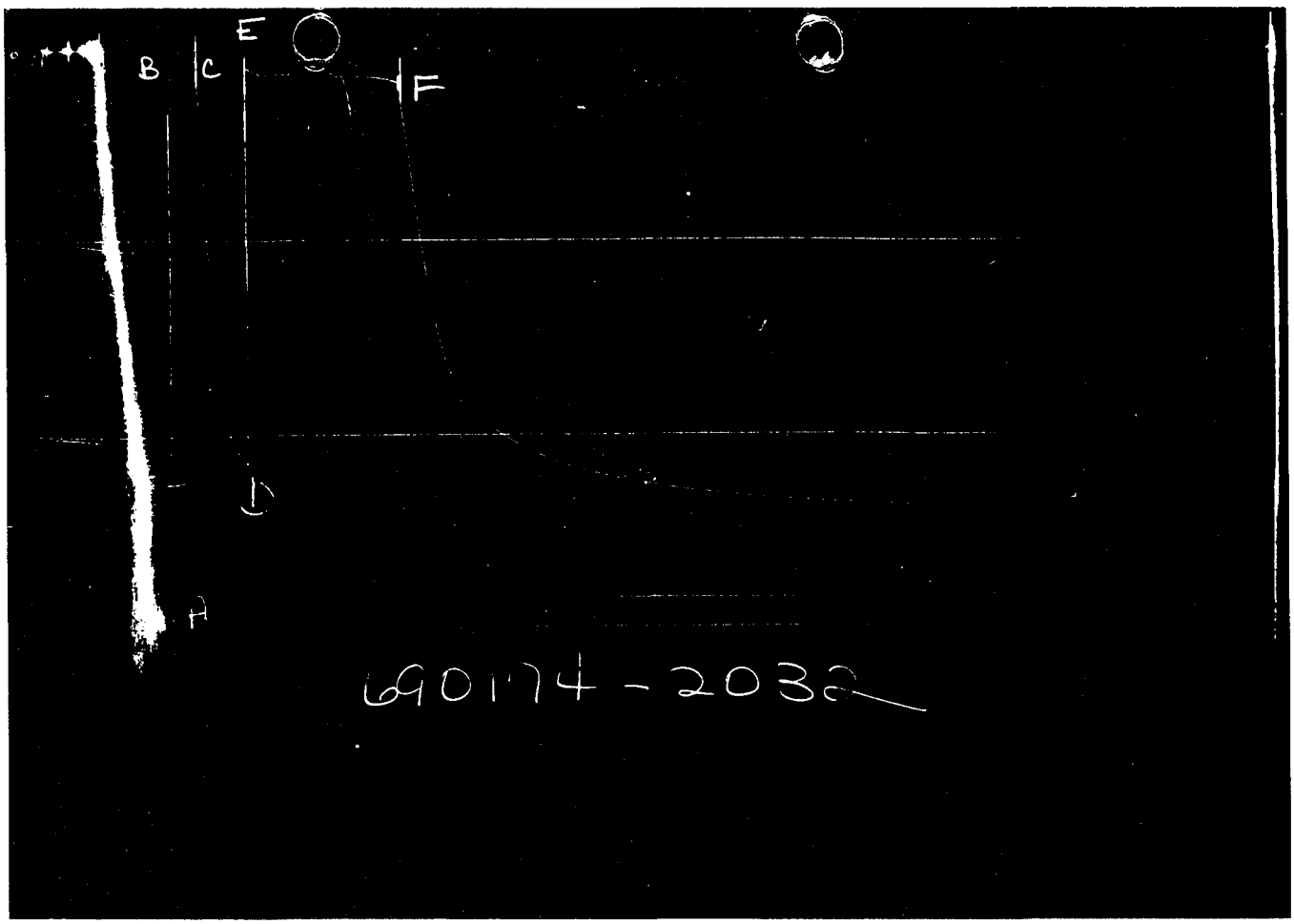
FORMATION TESTING SERVICE REPORT



690174-2033

GAUGE NO: 2033 DEPTH: 5734.2 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE REPORTED	PRESSURE CALCULATED	TIME REPORTED	TIME CALCULATED	TYPE
A	INITIAL HYDROSTATIC	2931	2946.4			
B	INITIAL FIRST FLOW	13	24.6	35.0	33.0	F
C	FINAL FIRST FLOW	40	46.0			
C	INITIAL FIRST CLOSED-IN	40	46.0	55.0	56.6	C
D	FINAL FIRST CLOSED-IN	2130	2131.9			
E	INITIAL SECOND FLOW	80	80.1	180.0	180.4	F
F	FINAL SECOND FLOW	160	164.8			
F	INITIAL SECOND CLOSED-IN	160	164.8	1013.0		C
G	FINAL SECOND CLOSED-IN					
H	FINAL HYDROSTATIC					



GAUGE NO: 2032 DEPTH: 5744.6 BLANKED OFF: YES HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE REPORTED	PRESSURE CALCULATED	TIME REPORTED	TIME CALCULATED	TYPE
A	INITIAL HYDROSTATIC	2968	2964.9			
B	INITIAL FIRST FLOW	26	42.3	35.0	33.0	F
C	FINAL FIRST FLOW	53	58.0			
C	INITIAL FIRST CLOSED-IN	53	58.0	55.0	56.6	C
D	FINAL FIRST CLOSED-IN	2171	2152.4			
E	INITIAL SECOND FLOW	80	106.3	180.0	180.4	F
F	FINAL SECOND FLOW	160	182.3			
F	INITIAL SECOND CLOSED-IN	160	182.3	1013.0		C
G	FINAL SECOND CLOSED-IN					
H	FINAL HYDROSTATIC					

EQUIPMENT & HOLE DATA

FORMATION TESTED: LOWER ISMAY
NET PAY (ft): 21.0
GROSS TESTED FOOTAGE: 158.0
ALL DEPTHS MEASURED FROM: KB
CASING PERFS. (ft): 5792' - 5813'
HOLE OR CASING SIZE (in): 5.500
ELEVATION (ft): 6208
TOTAL DEPTH (ft): 5896.0
PACKER DEPTH(S) (ft): 5738
FINAL SURFACE CHOKE (in): 0.125
BOTTOM HOLE CHOKE (in): 0.440
MUD WEIGHT (lb/gal): 10.00
MUD VISCOSITY (sec):
ESTIMATED HOLE TEMP. (°F): 135
ACTUAL HOLE TEMP. (°F): ___ @ ___ ft

TICKET NUMBER: 69017400
DATE: 2-8-85 TEST NO: 3
TYPE DST: CASED HOLE
HALLIBURTON CAMP: FARMINGTON
TESTER: H. BELL
WITNESS: BOB CRISTOFERSON
DRILLING CONTRACTOR: NL POOL

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
PIT	0.060 @ 50 °F	103030 ppm
RECOVERY	0.080 @ 59 °F	757575 ppm
	@ °F	ppm
	@ °F	ppm
	@ °F	ppm
	@ °F	ppm

SAMPLER DATA

Psig AT SURFACE:
cu.ft. OF GAS:
cc OF OIL:
cc OF WATER:
cc OF MUD:
TOTAL LIQUID cc:

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): ___ @ ___ °F
GAS/OIL RATIO (cu.ft. per bbl):
GAS GRAVITY:

CUSHION DATA

TYPE	AMOUNT	WEIGHT

RECOVERED:

270 FEET OF WATER

MEASURED FROM TESTER VALVE

REMARKS:

TYPE & SIZE MEASURING DEVICE: MANIFOLD | TICKET NO: 69017400

TIME	CHOKE SIZE	SURFACE PRESSURE PSI	GAS RATE MCF	LIQUID RATE BPD	REMARKS
2-7-85					
0700					ON LOCATION
0740					PICKED-UP TOOLS
0810					TRIPPED IN HOLE
0955	1/8"BH				OPENED TOOL - NO BLOW
1000	"				WEAK BLOW
1005	"				"
1010	"				GOOD BLOW
1030	"	10 OZ.			CLOSED TOOL - GOOD BLOW
1125	"				REOPENED TOOL - GOOD BLOW
1130	1/8"	2#			GOOD BLOW
1135	"	4.5#			"
1140	"	6.5#			"
1155	"	12#			"
1225	1/4"	10.5#			GAS TO THE SURFACE
1230	1/8"	5.5#			"
1240	"	6#			"
1255	"	6#			"
1325	"	5#			"
1355	"	4.5#			"
1425	"	4#			" - CLOSED TOOL
2-8-85					
0700					ON LOCATION
0718					OPENED BYPASS
0725					TRIPPED OUT OF HOLE
1000					TOOLS OUT OF HOLE

TICKET NO: 69017400	HALLIBURTON SERVICES	GAUGE NO: 2033
CLOCK NO: 9756 HOUR: 24		DEPTH: 5734.2

FIRST FLOW

REF		MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t+\Delta t}$	$\log\frac{t+\Delta t}{\Delta t}$
B	1	0.0	24.6			
	2	5.0	24.9	0.3		
	3	10.0	29.4	4.5		
	4	15.0	33.8	4.4		
	5	20.0	38.0	4.1		
	6	25.0	41.4	3.5		
	7	30.0	44.0	2.5		
C	8	33.0	46.0	2.0		

FIRST CLOSED-IN

REF		MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t+\Delta t}$	$\log\frac{t+\Delta t}{\Delta t}$
C	1	0.0	46.0			
	2	1.0	72.3	26.3	0.9	1.546
	3	2.0	108.8	62.8	1.9	1.245
	4	3.0	143.4	97.5	2.7	1.081
	5	4.0	181.7	135.7	3.6	0.968
	6	5.0	225.1	179.1	4.3	0.880
	7	6.0	282.2	236.2	5.1	0.814
	8	7.0	352.1	306.1	5.8	0.755
	9	8.0	418.6	372.6	6.4	0.711
	10	9.0	487.8	441.8	7.0	0.670
	11	10.0	586.6	540.6	7.6	0.635
	12	12.0	806.0	760.0	8.8	0.574
	13	14.0	997.1	951.1	9.8	0.526
	14	16.0	1198.1	1152.1	10.8	0.485
	15	18.0	1341.8	1295.8	11.6	0.452
	16	20.0	1468.4	1422.4	12.5	0.423
	17	22.0	1573.6	1527.6	13.2	0.398
	18	24.0	1659.9	1613.9	13.9	0.376
	19	26.0	1735.5	1689.5	14.5	0.355
	20	28.0	1791.5	1745.5	15.1	0.338
	21	30.0	1844.5	1798.5	15.7	0.322
	22	35.0	1947.6	1901.6	17.0	0.288
	23	40.0	2010.3	1964.3	18.1	0.261
	24	45.0	2059.1	2013.1	19.0	0.239
	25	50.0	2097.5	2051.5	19.9	0.220
D	26	56.6	2131.9	2085.9	20.8	0.199

SECOND FLOW

REF		MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t+\Delta t}$	$\log\frac{t+\Delta t}{\Delta t}$
E	1	0.0	80.1			
	2	10.0	101.3	21.3		
	3	20.0	125.8	24.5		
	4	30.0	127.4	1.6		
	5	40.0	127.4	0.0		
	6	50.0	127.4	0.0		
	7	60.0	125.9	-1.5		
	8	70.0	121.8	-4.1		
	9	80.0	121.8	0.0		

SECOND FLOW - CONTINUED

REF		MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t+\Delta t}$	$\log\frac{t+\Delta t}{\Delta t}$
	10	90.0	121.8	0.0		
	11	100.0	121.8	0.0		
[1]	12	110.0	122.3	0.5		
	13	120.0	181.0	58.7		
[1]	14	122.4	347.7	166.7		
	15	130.0	128.3	-219.4		
	16	140.0	133.4	5.1		
	17	150.0	136.9	3.5		
	18	160.0	142.9	6.0		
	19	170.0	149.5	6.6		
F	20	180.4	164.8	15.4		

SECOND CLOSED-IN

REF		MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t+\Delta t}$	$\log\frac{t+\Delta t}{\Delta t}$
F	1	0.0	164.8			
	2	1.0	173.0	8.2	1.0	2.335
	3	2.0	207.1	42.2	2.0	2.036
	4	3.0	237.2	72.3	3.0	1.858
	5	4.0	268.4	103.6	3.9	1.733
	6	5.0	297.3	132.5	4.9	1.641
	7	6.0	329.0	164.2	5.9	1.560
	8	7.0	360.2	195.3	6.7	1.500
	9	8.0	398.4	233.6	7.8	1.439
	10	9.0	428.7	263.9	8.6	1.394
	11	10.0	464.3	299.5	9.6	1.349
	12	12.0	533.0	368.2	11.4	1.273
	13	14.0	600.9	436.1	13.1	1.212
	14	16.0	674.8	510.0	14.9	1.157
	15	18.0	749.1	584.2	16.6	1.109
	16	20.0	818.2	653.3	18.3	1.067
	17	22.0	884.5	719.6	19.9	1.030
	18	24.0	956.5	791.7	21.5	0.996
	19	26.0	1016.2	851.4	23.2	0.964
	20	28.0	1078.2	913.4	24.7	0.936
	21	30.0	1134.6	969.7	26.3	0.909
	22	35.0	1273.1	1108.3	30.1	0.851
	23	40.0	1383.0	1218.1	33.7	0.802
	24	45.0	1476.1	1311.2	37.2	0.759
	25	50.0	1561.1	1396.2	40.5	0.721
	26	55.0	1630.8	1466.0	43.7	0.688
	27	60.0	1688.5	1523.7	46.8	0.659
	28	70.0	1774.4	1609.6	52.7	0.607
	29	80.0	1838.4	1673.6	58.2	0.564
	30	90.0	1888.5	1723.7	63.3	0.528
	31	100.0	1929.1	1764.2	68.1	0.496
	32	110.0	1964.4	1799.6	72.6	0.468
	33	120.0	1996.4	1831.6	76.8	0.444
	34	150.0	2072.4	1907.6	88.1	0.384
	35	180.0	2130.4	1965.6	97.6	0.340
	36	210.0	2172.1	2007.3	105.8	0.305
	37	240.0	2205.9	2041.0	112.9	0.276
	38	270.0	2233.9	2069.0	119.2	0.253

LEGEND:
[1] UNEXPLAINED PRESSURE CHANGE [2] CHART TIME EXPIRED

REMARKS:

TICKET NO: 69017400	HALLIBURTON SERVICES	GAUGE NO: 2033
CLOCK NO: 9756 HOUR: 24		DEPTH: 5734.2

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND CLOSED-IN - CONTINUED					
39	800.0	2257.5	2092.6	124.7	0.233
40	830.0	2278.0	2113.2	129.6	0.217
41	860.0	2292.5	2127.7	134.0	0.202
42	890.0	2304.9	2140.1	137.9	0.190
43	420.0	2318.0	2153.2	141.5	0.178
44	450.0	2327.7	2162.9	144.7	0.169
45	480.0	2336.9	2172.1	147.7	0.160
46	510.0	2344.1	2179.3	150.4	0.152
47	540.0	2349.7	2184.9	152.9	0.145
48	570.0	2354.0	2189.2	155.3	0.138
49	600.0	2360.3	2195.4	157.4	0.132
50	630.0	2364.5	2199.7	159.4	0.127
51	660.0	2368.4	2203.6	161.2	0.122
52	690.0	2371.9	2207.0	163.0	0.117
53	720.0	2375.2	2210.4	164.6	0.113
54	750.0	2378.7	2213.8	166.1	0.109
55	780.0	2381.3	2216.5	167.5	0.105
56	810.0	2384.0	2219.2	168.9	0.102
57	840.0	2386.3	2221.4	170.2	0.098
58	870.0	2388.4	2223.6	171.4	0.095
59	900.0	2389.9	2225.0	172.5	0.092
60	930.0	2391.7	2226.9	173.6	0.090
61	960.0	2393.1	2228.2	174.6	0.087
62	990.0	2394.4	2229.6	175.5	0.085
[2] 63	1006.4	2394.4	2229.6	176.1	0.084
G 64	NO DATA FOR THIS POINT				

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$

LEGEND:
[1] UNEXPLAINED PRESSURE CHANGE [2] CHART TIME EXPIRED

REMARKS:

TICKET NO: 69017400

CLOCK NO: 12118 HOUR: 24

HALLIBURTON SERVICES

GAUGE NO: 2032

DEPTH: 5744.6

FIRST FLOW

REF		MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t+\Delta t}$	$\log \frac{t+\Delta t}{\Delta t}$
B	1	0.0	42.3			
	2	5.0	41.7	-0.5		
	3	10.0	44.9	3.2		
	4	15.0	48.9	4.0		
	5	20.0	51.7	2.8		
	6	25.0	54.9	3.2		
	7	30.0	58.1	3.2		
C	8	33.0	58.0	-0.1		

FIRST CLOSED-IN

REF		MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t+\Delta t}$	$\log \frac{t+\Delta t}{\Delta t}$
C	1	0.0	58.0			
	2	1.0	243.3	185.3	1.0	1.518
	3	2.0	290.5	232.5	1.9	1.248
	4	3.0	351.2	293.2	2.7	1.082
	5	4.0	406.5	348.5	3.6	0.965
	6	5.0	478.1	420.1	4.4	0.880
	7	6.0	548.8	490.8	5.1	0.810
	8	7.0	630.3	572.3	5.8	0.758
	9	8.0	718.3	660.3	6.4	0.709
	10	9.0	816.1	758.1	7.1	0.668
	11	10.0	922.4	864.4	7.7	0.633
	12	12.0	1105.4	1047.4	8.8	0.575
	13	14.0	1292.1	1234.1	9.8	0.525
	14	16.0	1421.2	1363.2	10.8	0.486
	15	18.0	1529.2	1471.2	11.6	0.452
	16	20.0	1630.6	1572.6	12.5	0.423
	17	22.0	1704.5	1646.5	13.2	0.398
	18	24.0	1769.4	1711.4	13.9	0.376
	19	26.0	1827.6	1769.6	14.5	0.356
	20	28.0	1871.8	1813.8	15.1	0.338
	21	30.0	1911.8	1853.8	15.7	0.322
	22	35.0	1991.7	1933.7	17.0	0.288
	23	40.0	2052.1	1994.1	18.1	0.261
	24	45.0	2096.3	2038.3	19.0	0.239
	25	50.0	2130.7	2072.7	19.9	0.220
D	26	56.6	2152.4	2094.4	20.8	0.199

SECOND FLOW

REF		MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t+\Delta t}$	$\log \frac{t+\Delta t}{\Delta t}$
E	1	0.0	106.3			
	2	10.0	122.9	16.7		
	3	20.0	135.5	12.5		
	4	30.0	135.5	0.0		
	5	40.0	135.5	0.0		
	6	50.0	134.3	-1.2		
	7	60.0	129.9	-4.4		
	8	70.0	128.9	-0.9		
	9	80.0	128.5	-0.4		

SECOND FLOW - CONTINUED

REF		MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t+\Delta t}$	$\log \frac{t+\Delta t}{\Delta t}$
	10	90.0	128.5	0.0		
	11	100.0	130.4	1.9		
[1]	12	110.0	138.5	8.1		
	13	120.0	280.1	141.6		
[1]	14	122.4	354.8	74.7		
	15	130.0	146.3	-208.5		
	16	140.0	149.1	2.8		
	17	150.0	152.1	3.1		
	18	160.0	160.4	8.3		
	19	170.0	170.1	9.7		
F	20	180.4	182.3	12.1		

SECOND CLOSED-IN

REF		MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t+\Delta t}$	$\log \frac{t+\Delta t}{\Delta t}$
F	1	0.0	182.3			
	2	1.0	330.9	148.7	1.0	2.318
	3	2.0	359.6	177.3	2.0	2.038
	4	3.0	393.7	211.5	3.0	1.857
	5	4.0	424.9	242.7	3.9	1.734
	6	5.0	458.3	276.0	4.9	1.642
	7	6.0	492.3	310.0	5.8	1.566
	8	7.0	525.1	342.9	6.8	1.499
	9	8.0	558.7	376.5	7.7	1.444
	10	9.0	589.2	406.9	8.7	1.392
	11	10.0	623.1	440.9	9.6	1.348
	12	12.0	691.5	509.3	11.3	1.275
	13	14.0	763.9	581.6	13.1	1.211
	14	16.0	832.9	650.7	14.9	1.157
	15	18.0	901.3	719.1	16.6	1.109
	16	20.0	964.0	781.8	18.3	1.066
	17	22.0	1027.5	845.2	20.0	1.029
	18	24.0	1087.1	904.8	21.6	0.995
	19	26.0	1147.5	965.2	23.2	0.965
	20	28.0	1207.9	1025.6	24.8	0.935
	21	30.0	1259.1	1076.8	26.3	0.909
	22	35.0	1380.3	1198.0	30.1	0.851
	23	40.0	1478.0	1295.8	33.7	0.801
	24	45.0	1563.2	1381.0	37.2	0.759
	25	50.0	1634.5	1452.3	40.5	0.721
	26	55.0	1693.4	1511.1	43.7	0.688
	27	60.0	1740.9	1558.6	46.8	0.659
	28	70.0	1814.6	1632.3	52.7	0.607
	29	80.0	1871.8	1689.6	58.2	0.564
	30	90.0	1918.7	1736.4	63.3	0.528
	31	100.0	1958.6	1776.3	68.1	0.496
	32	110.0	1991.5	1809.3	72.6	0.468
	33	120.0	2020.3	1838.1	76.8	0.444
	34	150.0	2095.6	1913.3	88.1	0.384
	35	180.0	2151.1	1968.8	97.6	0.340
	36	210.0	2191.9	2009.6	105.8	0.305
	37	240.0	2225.7	2043.4	112.9	0.276
	38	270.0	2252.8	2070.5	119.2	0.253

LEGEND:
[1] UNEXPLAINED PRESSURE CHANGE [2] CHART TIME EXPIRED

REMARKS:

TICKET NO: 69017400	HALLIBURTON SERVICES	GAUGE NO: 2032
CLOCK NO: 12118 HOUR: 24		DEPTH: 5744.6

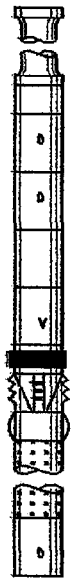
REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND CLOSED-IN - CONTINUED					
39	300.0	2276.2	2093.9	124.7	0.233
40	330.0	2297.5	2115.2	129.6	0.217
41	360.0	2311.4	2129.2	134.0	0.202
42	390.0	2326.1	2143.8	137.9	0.190
43	420.0	2337.8	2155.5	141.5	0.178
44	450.0	2348.5	2166.3	144.7	0.169
45	480.0	2356.6	2174.4	147.7	0.160
46	510.0	2364.1	2181.8	150.4	0.152
47	540.0	2371.1	2188.9	152.9	0.145
48	570.0	2376.7	2194.5	155.3	0.138
49	600.0	2382.0	2199.8	157.4	0.132
50	630.0	2387.2	2205.0	159.4	0.127
51	660.0	2390.6	2208.3	161.2	0.122
52	690.0	2395.7	2213.5	163.0	0.117
53	720.0	2398.8	2216.5	164.6	0.113
54	750.0	2402.4	2220.1	166.1	0.109
55	780.0	2406.3	2224.0	167.5	0.105
56	810.0	2407.8	2225.6	168.9	0.102
57	840.0	2411.2	2228.9	170.2	0.098
58	870.0	2413.4	2231.2	171.4	0.095
59	900.0	2415.2	2232.9	172.5	0.092
60	930.0	2416.8	2234.5	173.6	0.090
61	960.0	2418.9	2236.6	174.6	0.087
62	990.0	2421.8	2239.5	175.5	0.085
[2] 63	1005.4	2422.5	2240.2	176.0	0.084
G 64	NO DATA FOR THIS POINT				

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$

LEGEND:
[1] UNEXPLAINED PRESSURE CHANGE [2] CHART TIME EXPIRED

REMARKS:

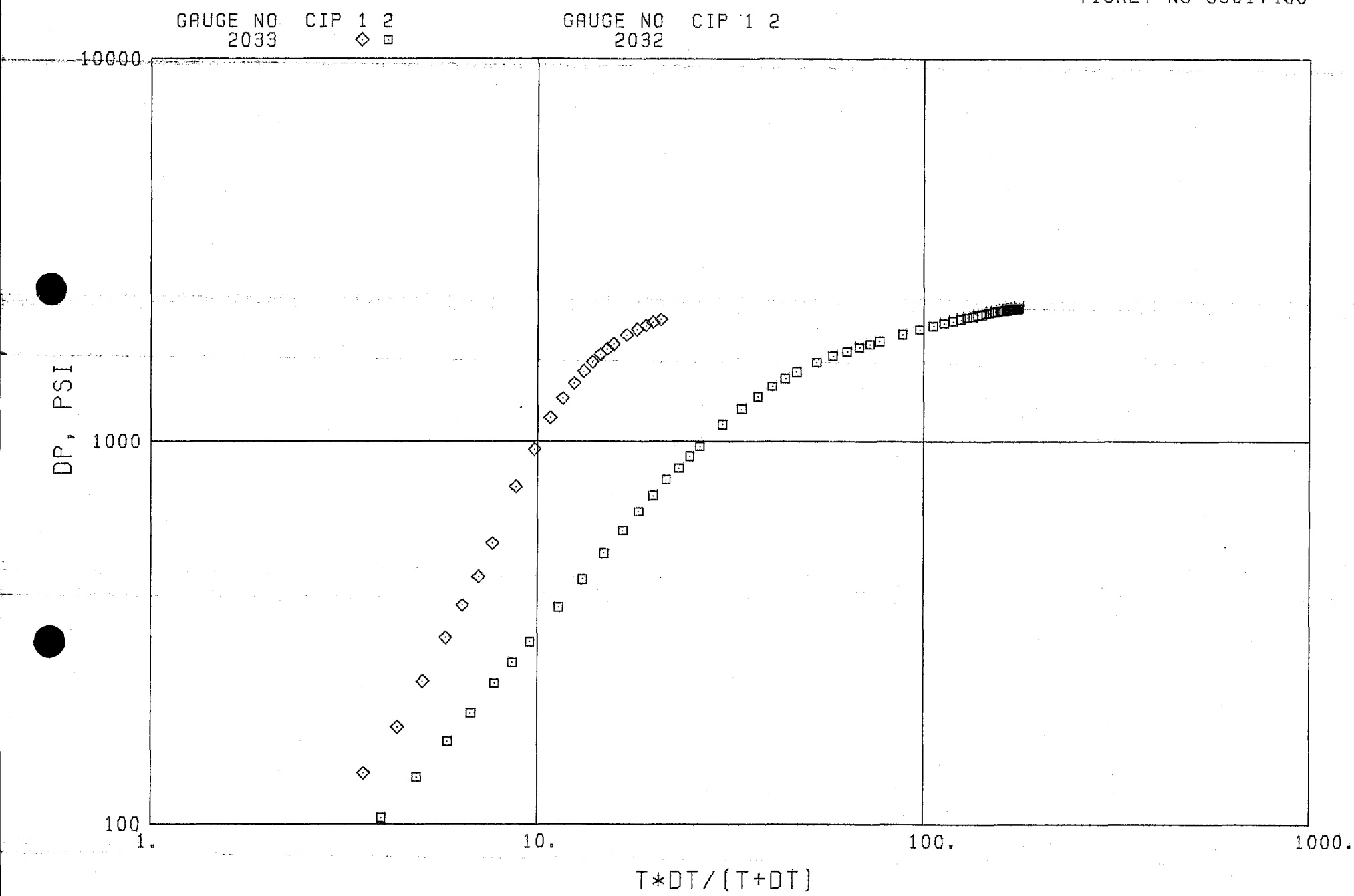
TICKET NO. 69017400



		O.D.	I.D.	LENGTH	DEPTH
2	TUBING.....	2.875	2.440	5719.9	
5	CROSSOVER.....	2.875	2.440	0.7	
12	DUAL CIP VALVE.....	3.000	0.440	5.4	
60	HYDROSPRING TESTER.....	3.000	0.500	4.1	5730.1
80	AP RUNNING CASE.....	3.000	1.600	4.1	5734.2
16	VR SAFETY JOINT.....	3.000	0.500	2.8	
71	CASING PACKER.....	4.500	1.900	3.0	5738.0
20	FLUSH JOINT ANCHOR.....	2.375	1.995	4.1	
81	BLANKED-OFF RUNNING CASE.....	3.000		4.5	5744.6
	TOTAL DEPTH				5896.0

EQUIPMENT DATA

TICKET NO 69017400



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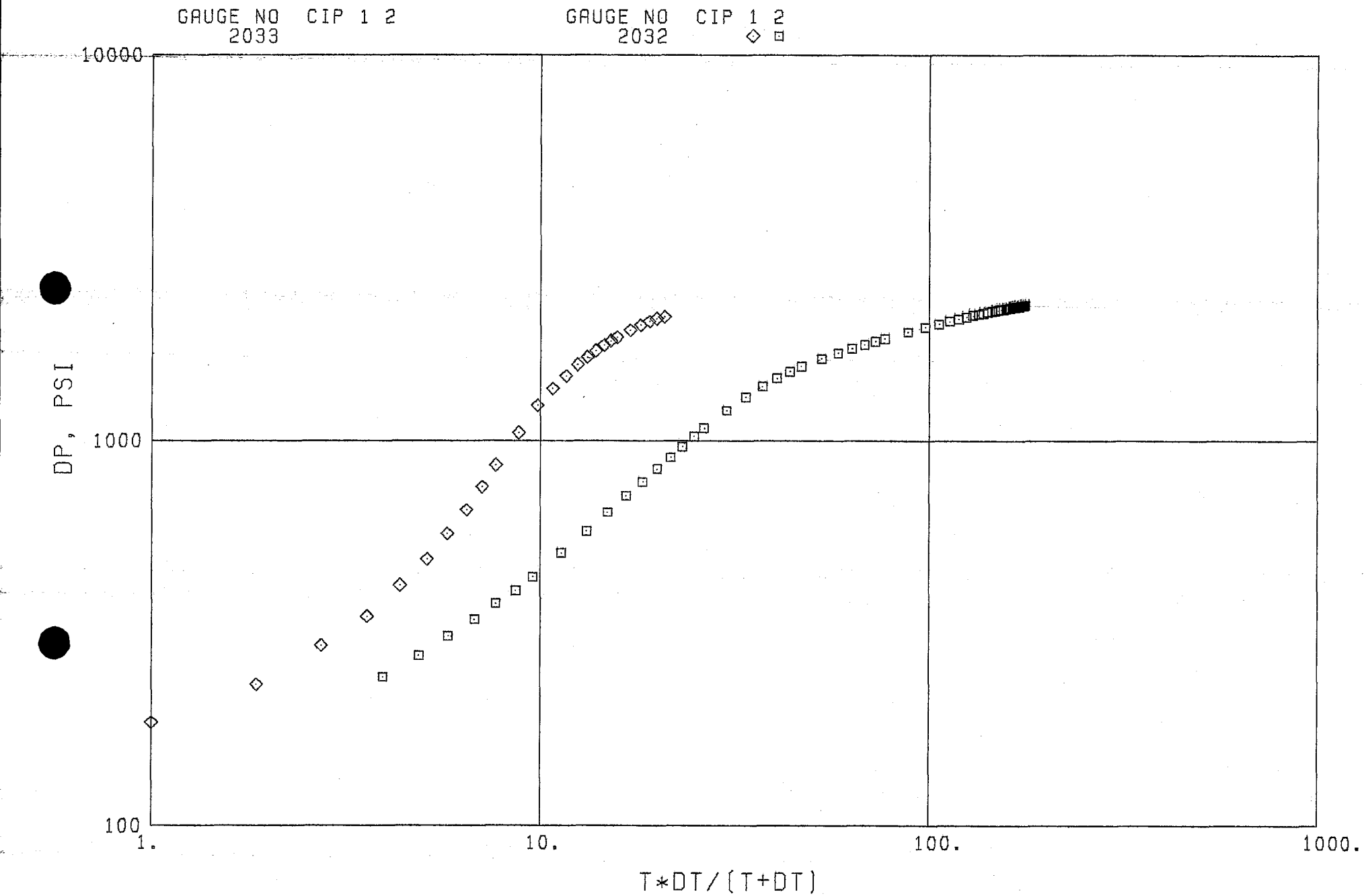

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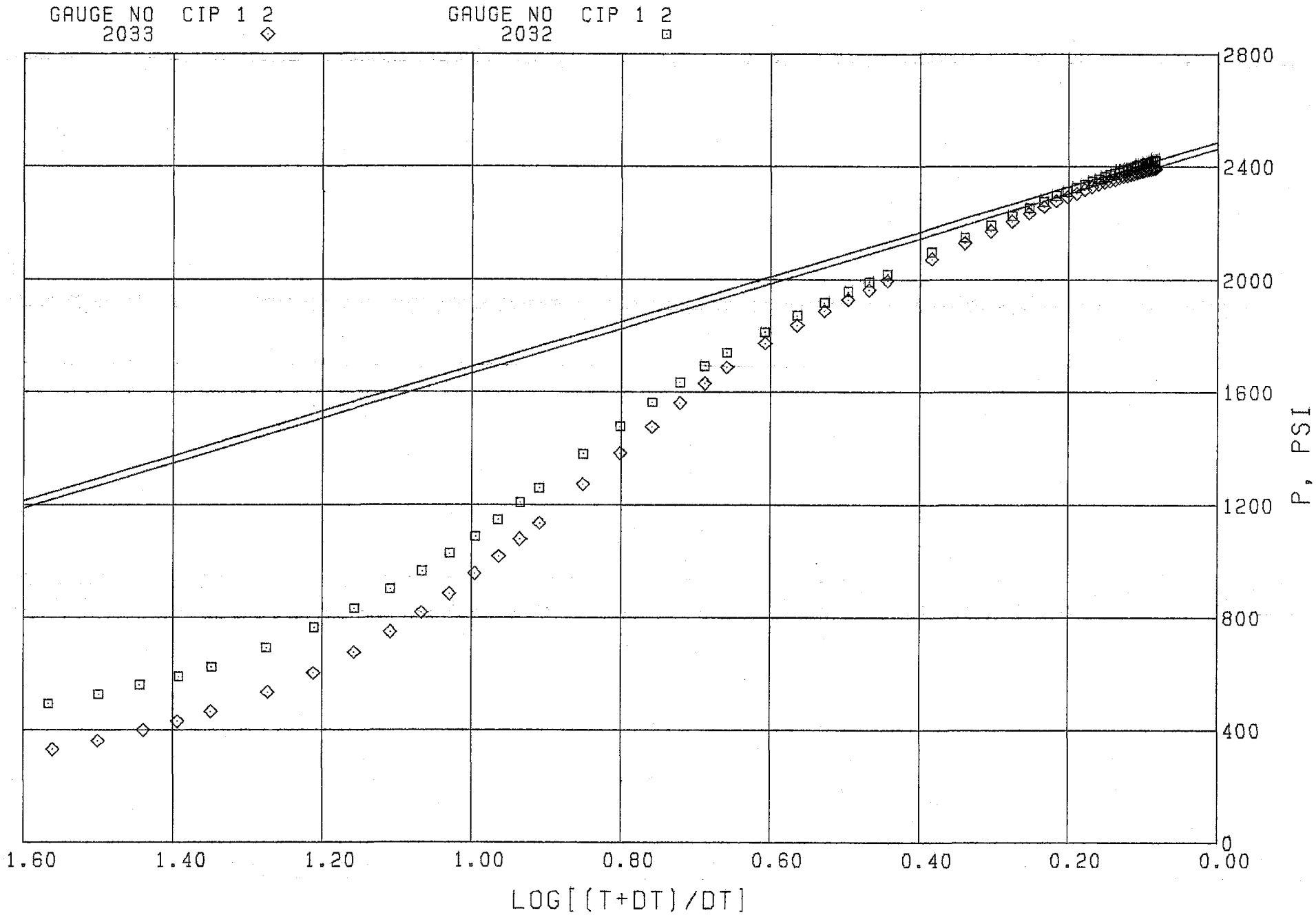

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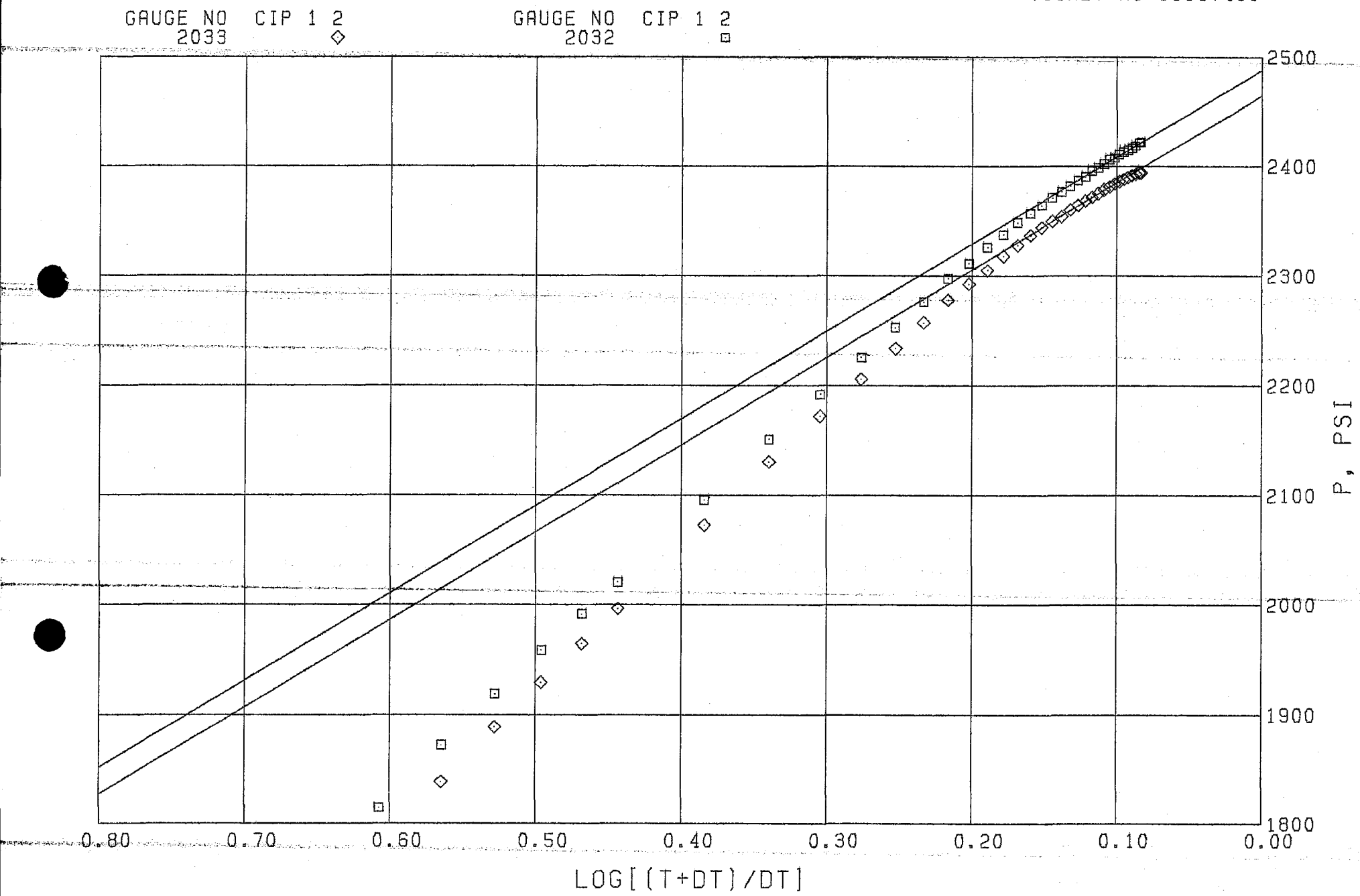

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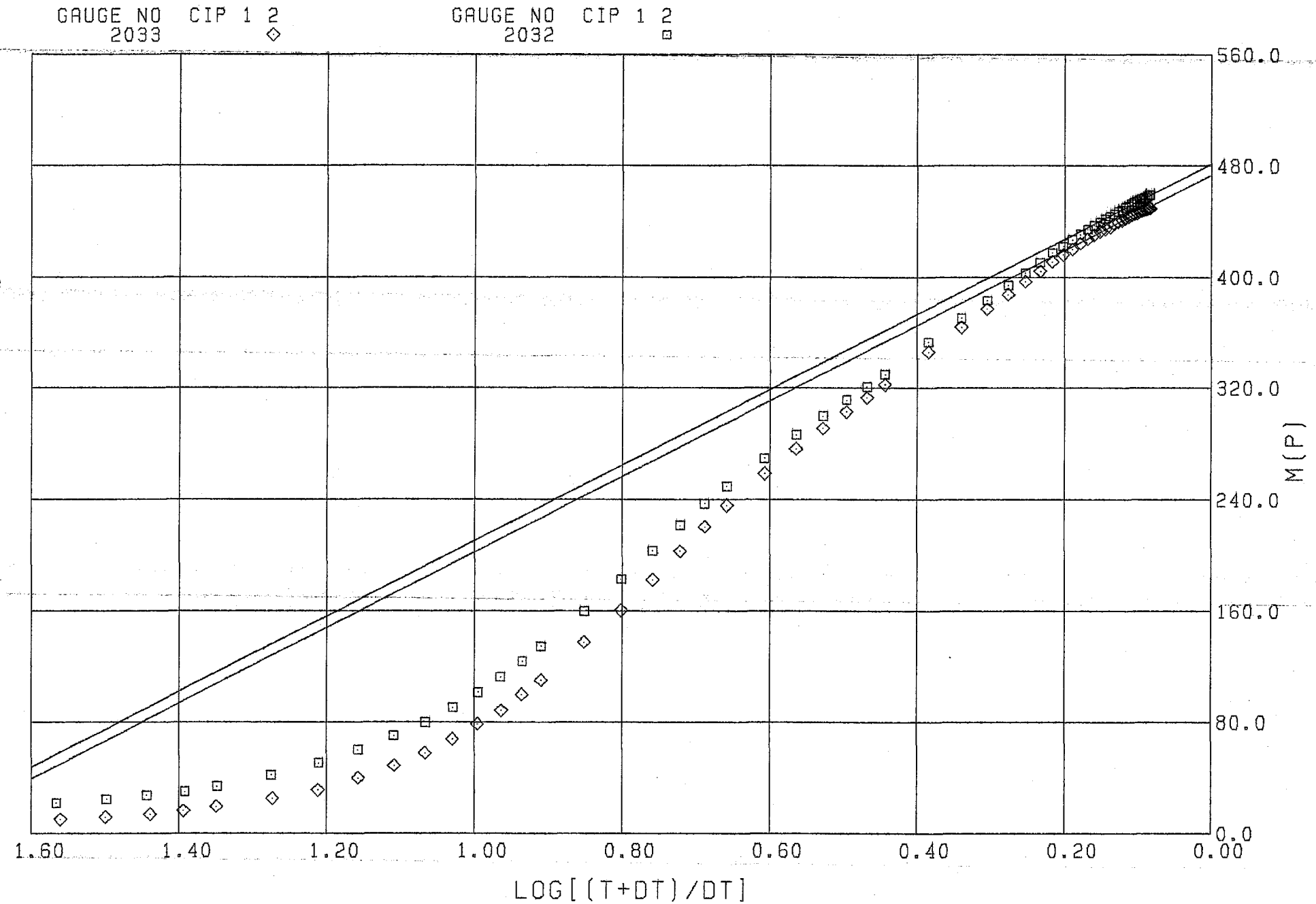

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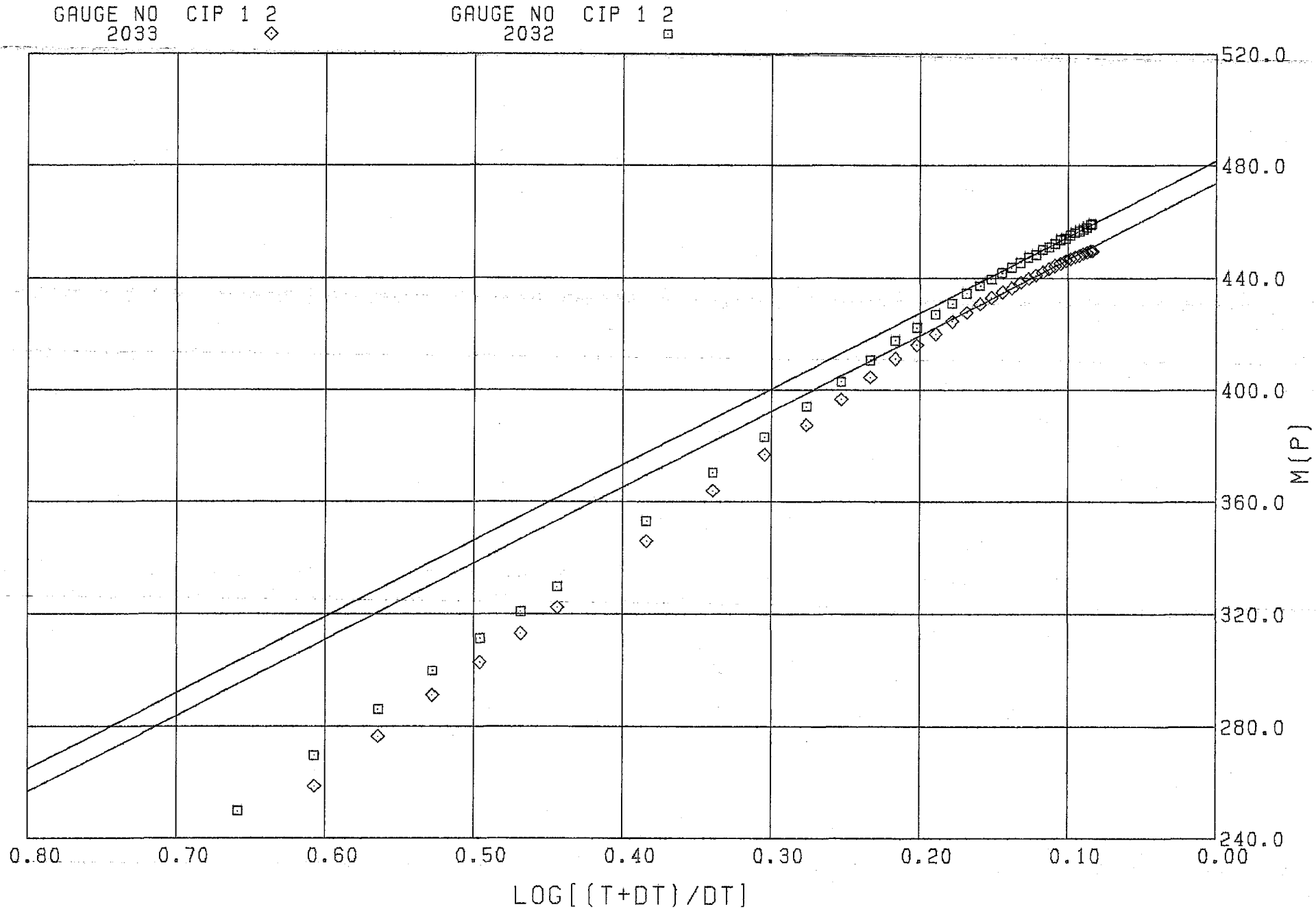
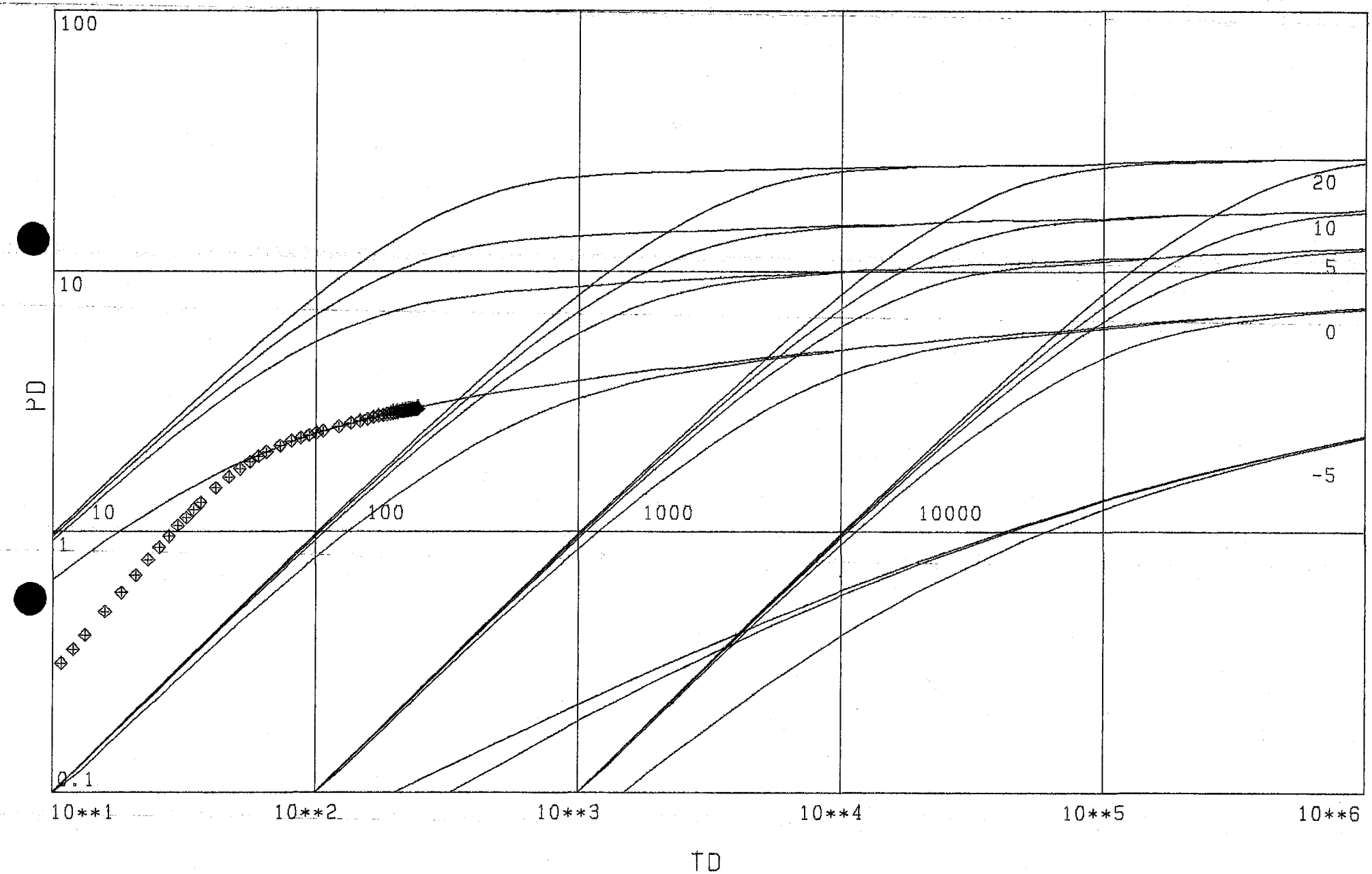


GAUGE NO 2033 CIP 2 TICKET NO 69017400



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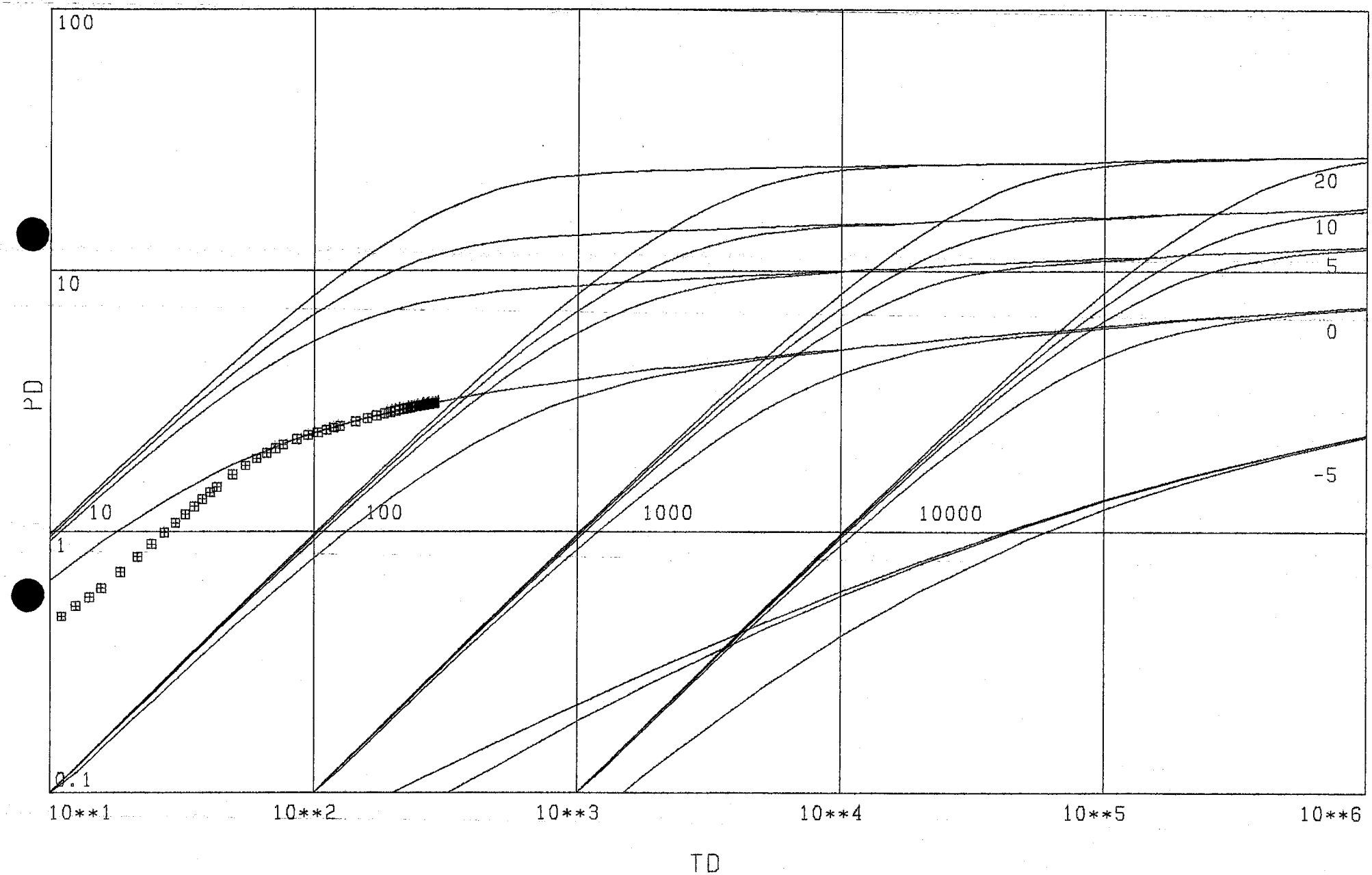

454

TICKET NUMBER 69017400

SUMMARY OF RESERVOIR PARAMETERS

USING CURVE MATCH METHOD FOR GAS WELLS

GAS GRAVITY 0.600 — TEMPERATURE 135.0 °F

NET PAY 21.0 ft — POROSITY 10.0 %

RADIUS OF WELLBORE 0.229 ft — VISCOSITY 0.017 cp

GAS DEVIATION FACTOR 0.855 — GAS PROPERTIES AT 2488.1 psig

SYSTEM COMPRESSIBILITY 320.46 $\times 10^{-6}$ vol/vol/psi

								UNITS
GAUGE NUMBER		2033	2032					
GAUGE DEPTH		5734.2	5744.6					
FLOW AND CIP PERIOD		2	2					
FINAL FLOW PRESSURE	P_f	164.8	182.3					psig
TOTAL FLOW TIME	t	213.4	213.4					min
PRODUCTION RATE	Q	1.0	1.0					MCFD
t_d AT 1 HOUR		65.	76.					
P_d AT 100 psi		0.133	0.138					
C_d		0.7	0.3					
SKIN	S	0.0	0.0					
TRANSMISSIBILITY	kh/μ	0.2	0.2					$\frac{md\text{-}ft}{cp}$
FLOW CAPACITY	kh	0.00328	0.00339					md-ft
PERMEABILITY	k	0.00016	0.00016					md
DAMAGE RATIO	DR	1.0	1.0					
RADIUS OF INVESTIGATION	r_i	0.0	0.0					ft

REMARKS: CALCULATION SERVICES WERE PERFORMED UPON THE SECOND CLOSED-IN PERIOD READINGS ONLY. OBSERVATION OF THE CHARTS AND LOG-LOG PLOTS INDICATES THE DEVELOPMENT OF THE INITIAL CLOSED-IN PERIOD IS INSUFFICIENT FOR CALCULATION PURPOSES.

CALCULATED RESERVOIR PARAMETERS ARE HIGHLY QUESTIONABLE. THE FLOW RATE WAS ESTIMATED TO BE 1.0 MCF/D BASED ON 4 PSI AND A 1/8" CHOKE. ACCURATE GAS MEASUREMENTS CAN'T BE MADE USING A 6" CHOKE WHEN THE UP-STREAM PRESSURES ARE LESS THAN 14.6 PSI. THE CLOSURE ON THE FINAL CIP IS QUESTIONABLE FOR A HORNER PLOT ALTHOUGH THE HORNER AND TYPE CURVE ANALYSIS YIELD SIMILAR RESULTS.

NOTICE: THESE CALCULATIONS ARE BASED UPON INFORMATION FURNISHED BY YOU AND TAKEN FROM DRILL STEM PRESSURE CHARTS, AND ARE FURNISHED YOU FOR YOUR INFORMATION. IN FURNISHING SUCH CALCULATIONS AND EVALUATIONS BASED THEREON, HALLIBURTON IS MERELY EXPRESSING ITS OPINION. YOU AGREE THAT HALLIBURTON MAKES NO WARRANTY EXPRESS OR IMPLIED AS TO THE ACCURACY OF SUCH CALCULATIONS OR OPINIONS, AND THAT HALLIBURTON SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE, WHETHER DUE TO NEGLIGENCE OR OTHERWISE, IN CONNECTION WITH SUCH OPINIONS.

EQUATIONS FOR DST LIQUID WELL ANALYSIS

Transmissibility	$\frac{kh}{\mu} = \frac{162.6\ QB}{m}$	$\frac{\text{md-ft}}{\text{cp}}$
Indicated Flow Capacity	$kh = \frac{kh}{\mu}\ \mu$	md-ft
Average Effective Permeability	$k = \frac{kh}{h}$	md
Damage Ratio	$DR = .183\ \frac{P^* - P_f}{m}$	—
Theoretical Potential w / Damage Removed	$Q_1 = Q\ DR$	BPD
Approx. Radius of Investigation	$r_i = 4.63\ \sqrt{kt}$	ft

EQUATIONS FOR DST GAS WELL ANALYSIS

Indicated Flow Capacity	$kh = \frac{1637\ Q_g\ T}{m}$	md-ft
Average Effective Permeability	$k = \frac{kh}{h}$	md
Skin Factor	$S = 1.151 \left[\frac{m(P^*) - m(P_f)}{m} - \text{LOG}\ \frac{k(t/60)}{\phi\ \mu\ c_t r_w^2} + 3.23 \right]$	—
Damage Ratio	$DR = \frac{m(P^*) - m(P_f)}{m(P^*) - m(P_f) - 0.87\ mS}$	—
Indicated Flow Rate (Maximum)	$AOF_1 = \frac{Q_g\ m(P^*)}{m(P^*) - m(P_f)}$	MCFD
Indicated Flow Rate (Minimum)	$AOF_2 = Q_g \sqrt{\frac{m(P^*)}{m(P^*) - m(P_f)}}$	MCFD
Approx. Radius of Investigation	$r_i = 0.032 \sqrt{\frac{k(t/60)}{\phi \mu c_t}}$	ft

WEXPRO COMPANY

79 SOUTH STATE STREET • P.O. BOX 11070 • SALT LAKE CITY, UTAH 84147 • PHONE (801) 530-2600

RECEIVED

APR 03 1985

DIVISION OF OIL
GAS & MINING

April 2, 1985

State of Utah
Natural Resources
Oil, Gas and Mining
4241 State Office Building
Salt Lake City, Utah 84114
ATTN: Claudia Jones

Gentlemen:

RE: Bug 1,2,6,10,12, and 25

To follow up our telephone conversation, enclosed please find copies of well completion reports, on the Bug wells listed above.

Those wells are operated by Wexpro Company for Celsius Energy Company, all reporting will be completed by Wexpro Company for Celsius Energy Company.

If you have any further questions please call me at 530-2813.

Sincerely,

Mike Butcher

Mike Butcher
Revenue Accounting Supervisor

MB:sh
enclosures

Form 3160-5
(November 1983)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

RECEIVED
AUG 29 1988
DIVISION OF
OIL, GAS & MINING

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
Wexpro Company

3. ADDRESS OF OPERATOR
P. O. Box 458, Rock Springs, Wyoming 82902

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

7. UNIT AGREEMENT NAME
--

8. FARM OR LEASE NAME
Bug

9. WELL NO.
Battery C

10. FIELD AND POOL, OR WILDCAT
Bug

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
22-36S-26E

14. PERMIT NO.
43-037-30591

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

12. COUNTY OR PARISH: San Juan

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) Use of Emergency Pit			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.)*

The emergency pit located on the above-captioned location was used on August 22, 1988 to contain approximately 300 barrels of brine water which was dumped to the pit, due to a malfunction of the oil float valve on the Ren drum for the Bug Well No. 12 injection pump. All water was contained in the pit. Approximately 80 barrels of oil-contaminated water was hauled to the Hatch disposal pit, and the remainder was returned to the tank on August 23, 1988. The faulty valve has been repaired. Water lost will be reported on the Monthly Report of Operations.

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

SIGNED H. K. Ogan TITLE District Manager DATE 8/25/88

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Form OGC-1b

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

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 [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: WEXPRO COMPANY

3. ADDRESS OF OPERATOR: P O BOX 458, ROCK SPRINGS, WY 82902-0458

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: NE1/4 NW1/4, 610' FNL, 1986' FWL

5. LEASE DESIGNATION AND SERIAL NO.: FEE

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

7. UNIT AGREEMENT NAME: ---

8. FARM OR LEASE NAME: BUG

9. WELL NO.: 10

10. FIELD AND POOL, OR WILDCAT: BUG

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 21, 36S, 26E

14. PERMIT NO.: 43-037-30591

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 6620 GR

12. COUNTY OR PARISH: San Juan

13. STATE: Utah

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

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

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

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

Wexpro Company would like to plug the subject well as follows:

1) Pull all rods and tubulars.
2) Set retainer at 6270' (perfs at 6320-6330').
3) Squeeze perfs with 50 sacks "G" cement and leave 1 sack atop retainer.
4) Load hole with 9 PPG Poz/Gel fluid.
5) Set 100 foot plug from 3000 to 3100 feet.
6) Set 50 foot plug at surface in 5-1/2 inch casing.
7) Cut wellhead off 4 feet below ground level and install regulation dry hole marker.

RECEIVED
MAR 02 1998
DIV. OF OIL, GAS & MINING

✓ WRD/ae

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

SIGNED [signature] TITLE Operations Manager DATE 2/19/98

(This space for Federal or State office use)

APPROVED BY [signature] TITLE Manager DATE 3-23-98

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Form OGC-1b

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

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 [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: WEXPRO COMPANY

3. ADDRESS OF OPERATOR: P O Box 458, Rock Springs, WY 82902-0458

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: NE1/4 NW1/4, 610' FNL, 1986' FEL

5. LEASE DESIGNATION AND SERIAL NO.: Fee

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

7. UNIT AGREEMENT NAME: ---

8. FARM OR LEASE NAME: Bug

9. WELL NO.: 10

10. FIELD AND POOL, OR WILDCAT: Bug

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. ~~21~~ 22-T36S-R26E

14. PERMIT NO.: 43-037-30591

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 6620' GR

12. COUNTY OR PARISH: San Juan

13. STATE: UT

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

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

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

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

The above captioned well was plugged and abandoned on May 9, 1998 as follows:

Plug No. 1: Set 110 sacks "G" cement from 6338-5300 feet. Perforations from 6320 - 6330 feet. Left in hole and cemented were tubing anchor at 6271 feet, 2-3/8" tubing from 6338-3068 feet and 1 inch injection string from 6196-2129 feet. Tested plug to 1000 psi.

Plug No. 2: Placed 25 sacks "G" cement from 3046-2809 feet KBM. Left 9 ppg for spacer from 2809-2235 feet.

Plug No. 3: Placed 25 sacks "G" cement from 2235-1999 feet KBM. Left 9 ppg for spacer from 1990 feet to surface.

Plug No. 4: Placed surface plug from 120 feet to surface with 25 sacks "G". Regulation dry hole marker was installed.

Note: A 25 sack plug of Class "G" was placed from surface in 9-5/8 inch by 5-1/2 inch annulus. All plugs were approved by Mr. Bozza on May 6, 1998 and Mr. Kruger on May 8, 1998 of the Utah Division of Oil, Gas & Mining.

RECEIVED
MAY 26 1998
DIV. OF OIL, GAS & MINING

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

SIGNED [signature] TITLE Operations Manager DATE 052298

(This space for Federal or State office use)

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

See Instructions on Reverse Side