Amoco Production Company
Post Office Box 17675
Salt Lake City, Utah 84117
801-272-9253

W. M. Jones
District Superintendent

RECEIVED
AUG 16 1979
DIVISION OF OIL, GAS, & MINING

August 16, 1979

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

WMJ-1189-WF

Request for Exception on Deseret W.I. Unit No. 1 located SW/4 SW/4 Section 2, T6N-R5E, Morgan County, Utah

Amoco hereby requests a topographic exception to the requirements of Rule C-3 and permission to drill on SW/4 SW/4 Section 2, 792.1' FWL, 2467.3' FSL, T6N-R5E, Morgan County, Utah.

This request is made to comply with the landowner's request and to situate the well site away from an existing Aspen Grove. In addition, Amoco controls the surrounding acreage within a 660' radius of the location.

W. M. Jones

Form OGC-1a

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

RECEIVED AUG 16 1979 DIVISION OF OIL, GAS & 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
Amoco Production Company

3. Address of Operator
P. O. Box 17675, Salt Lake City, Utah 84117

4. Location of Well (Report location clearly and in accordance with any State requirements.*)
At surface
792.1' FWL, 2467.3' FSL, ~~SW~~ NW/4 SW/4 Section 2

At proposed prod. zone
Same

5. Lease Designation and Serial No.
FEE

6. If Indian, Allottee or Tribe Name

7. Unit Agreement Name

8. Farm or Lease Name
Deseret W.I. Unit

9. Well No.
1

10. Field and Pool, or Wildcat
Wildcat

11. Sec., T., R., M., or Blk. and Survey or Area
Section 2, T6N-R5E

12. County or Parrish
Morgan

13. State
Utah

14. Distance in miles and direction from nearest town or post office*
Approximately 30 miles North of Coalville, Utah

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any)
792.1'

16. No. of acres in lease

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.

19. Proposed depth
13,500' Ordovician

20. Rotary or cable tools
Rotary to TD

21. Elevations (Show whether DF, RT, GR, etc.)
7798' ungraded

22. Approx. date work will start*
When approved

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
17 1/2"	13 3/8"	54.5#, K-55	0-2100'	1500 Sx 50/50 pas, 500 Class G Cmt.
12 1/4"	9 5/8"	40#, K-55, L-80, SS-95	0-7800'	1000 Sx Class "G" Cement
8 1/2"	7"	26# & 23#, SS-95 23# L-80	0-TD	500 Sx Glass "G" cement

We propose to make this well a stand-up well.

To test for hydrocarbons in the Dinwoody, Phosphoria, Mississippian, and Ordovician formations.

"See Attachments"

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 D. L. Davidson Title Dist. Admin. Supervisor Date August 15, 1979

(This space for Federal or State office use)

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

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

*See Instructions On Reverse Side

Form OGC-1a

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

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

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: Amoco Production Company

3. Address of Operator: P. O. Box 17675, Salt Lake City, Utah 84117

4. Location of Well (Report location clearly and in accordance with any State requirements.*)
At surface: 792.1' FWL, 2467.3' FSL, SW/4 SW/4 Section 2
At proposed prod. zone: Same

5. Lease Designation and Serial No.: FEE

6. If Indian, Allottee or Tribe Name:

7. Unit Agreement Name:

8. Farm or Lease Name: Deseret W.I. Unit

9. Well No.: 1

10. Field and Pool, or Wildcat: Wildcat

11. Sec., T., R., M., or Blk. and Survey or Area: Section 2, T6N-R5E

12. County or Parrish: Morgan 13. State: Utah

14. Distance in miles and direction from nearest town or post office*: Approximately 30 miles North of Coalville, Utah

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any): 792.1'

16. No. of acres in lease:

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.:

19. Proposed depth: 13,500'

20. Rotary or cable tools: Rotary to TD

21. Elevations (Show whether DF, RT, GR, etc.): 7798' ungraded

22. Approx. date work will start*: When approved

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
17 1/2"	13 3/8"	54.5#, K-55	0-2100'	1500 Sx 50/50 pas, 500 Class G Cmt.
12 1/4"	9 5/8"	40#, K-55, L-80, SS-95	0-7800'	1000 Sx Class "G" Cement
8 1/2"	7"	26# & 23#, SS-95 23# L-80	0-TD	500 Sx Glass "G" cement

We propose to make this well a stand-up well.

To test for hydrocarbons in the Dinwoody, Phosphoria, Mississippian, and Ordovician formations.

"See Attachments"

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: Original Signed By D. S. DAVIDSON Title: Dist. Admin. Supervisor Date: August 15, 1979

(This space for Federal or State office use)

Permit No. Approval Date

Approved by Title Date
Conditions of approval, if any:

*See Instructions On Reverse Side

ATTACHMENT TO FORM OCG-1

Deseret W.I. Unit #1
NW/4 SW/4, T6N-R5E
Morgan County, Utah

1. Geologic name of the surface formation: Wasatch

2. Estimated tops of geological markers:

Wasatch -	surface	Phosphoria -	8040'
Twin Creek -	540'	Wells -	8740'
Nugget -	2140'	Mississippian -	9140'
Ankareh -	3340'	Devonian -	11,140'
Thaynes -	5240'	Ordovician -	12,140'
Woodside -	6940'	TD -	13,500'
Dinwoody -	7670'		

3. Estimated depths anticipated to encounter water, oil, gas or other mineral-bearing formations: 540', 2140', 3340', 5240', 6940', 7670', 8040', 8740', 9140', 11,140', 12,140', 13,500'

4. Casing Program - See Form OGC-1a, #23

5. Operators minimum specifications for pressure control equipment are explained on attached schematic diagram. Testing of such is to be performed daily and noted on the IADC Daily Drilling Report. After running surface casing and prior to drilling out, BOP and other pressure equipment will be tested to the full working pressure rating as shown on the attached diagram. Thereafter, the BOP will be checked daily for mechanical operations only and will be noted on the IADC Daily Drilling Report.

6. Mud Program:

0-1500'	Native	8.3-8.5#/gal.
1500'-TD	LSND	8.5-9.0#/gal*

* Use minimum mud weight as possible

7. Auxiliary Equipment:

Kelly Cock: floor sub with a full opening valve. 3" choke manifold with remote control choke, 2500 PSI WP

8. Testing Program:

4 Drill stem tests, (1) Dinwoody, (1) Phosphoria*, (1) Mississippian, (1) Ordovician*.

*at discretion of Denver Division Exploration.

Logging Program

*DIL - GR	Bottom of Surface Casing to TD
Sonic - GR	" " " " " "
CNL-FDC-GR	**
HDT	Bottom of Surface Casing to TD
Velocity Surveys	

*If mud is fresh
**Over zones of interest

Coring Program

2 Cores (1) Phosphoria, (1) Mississippian*

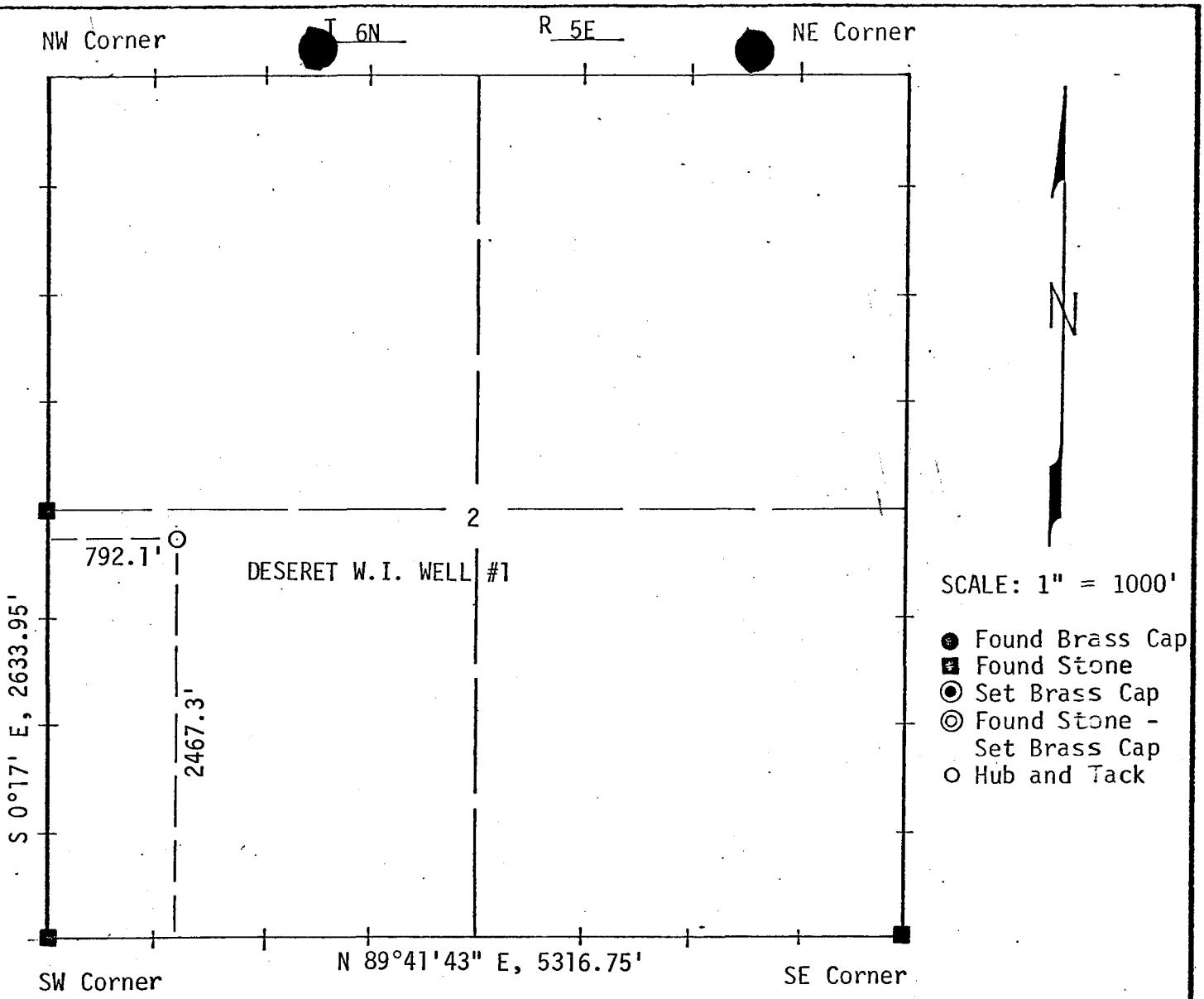
*At discretion of Denver Division Exploration

Stimulation Program

To be determined by the Denver Division office upon completion of drilling, coring and Drill stem tests.

9. No abnormal pressure or temperature or potential hazards are anticipated Anticipated botton hole pressure - 6300 PSI. Casing head 9 5/8" 5000# WP. Tubing head, 10" x 5000# x 7 1/16" 10,000# WP

10. The anticipated starting date will be when approved. The duration of the operations will be approximately sixty days.



I, John A. Proffit of Evanston, Wyoming certify that in accordance with a request from R.C. Buckley of Evanston, Wyoming for Amoco Production Company I made a survey on the 2nd 5th day of August July, 1979 for Location and Elevation of the Deseret W.I. Well #1 as shown on the above map, the wellsite is in the NW¼SW¼ of Section 2, Township 6N, Range 5E of the Salt Lake Base & Meridian, Morgan County, State of Utah, Elevation is 7798 Feet Top of Hub Datum U.S.G.S. Peck Canyon, Utah Quad, SW¼SW¼ Section 2, T6N, R5E, SLB&M

Reference point 300' West Top of Pin 7778.7'

Reference point 400' West " " " 7771.7'

Reference point 299' North " " " 7795.4'

Reference point 245' South " " " 7762.7'

John A. Proffit 8/14/79

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

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

DATE: August 7, 1979
JOB NO.: 79-10-57

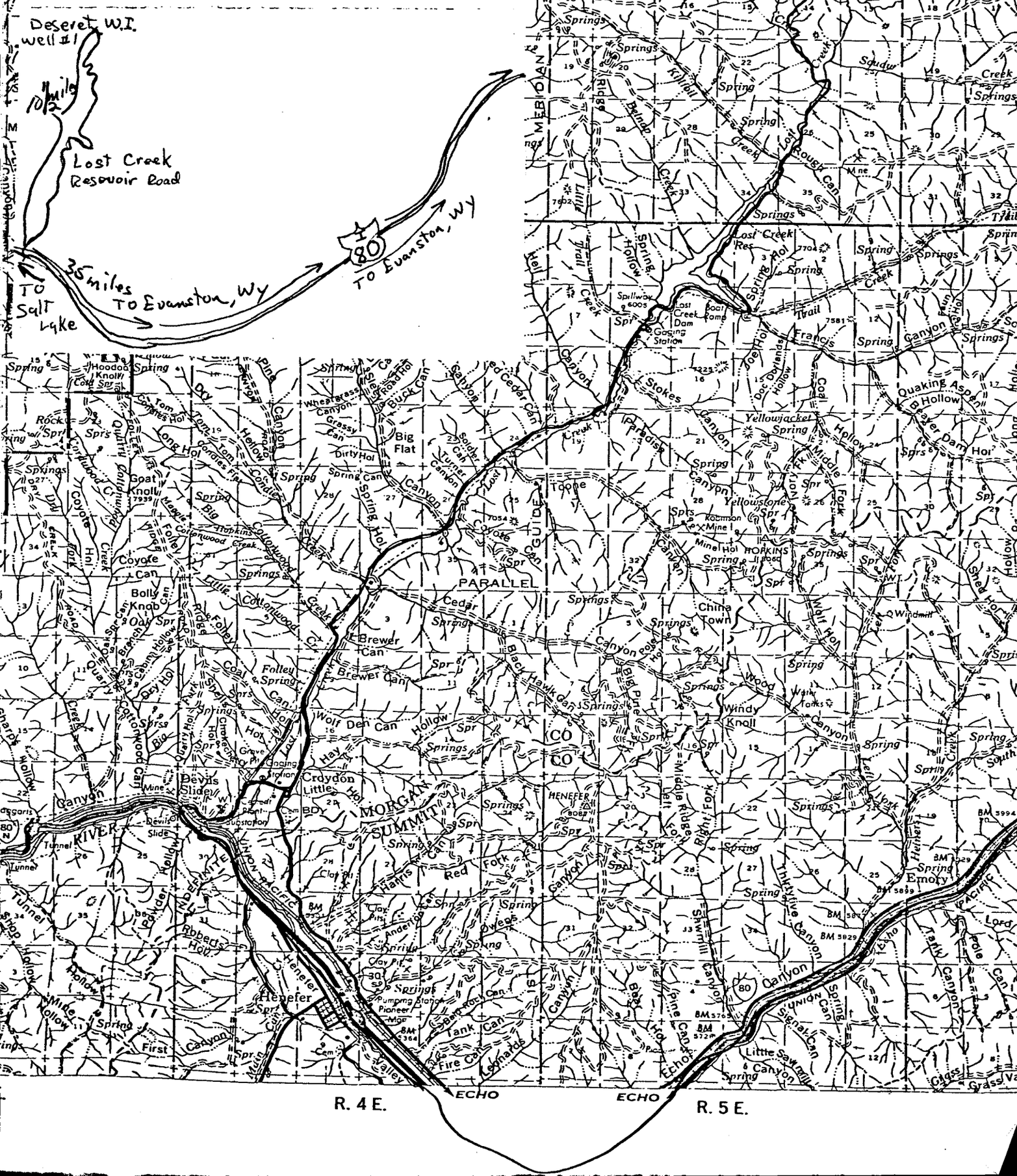
Exhibit II

Salt Lake City District
Denver Division

Well: Deseret W.I. Well #1
SW/4 SW/4 Sec 2, T6N-R5E
Morgan County, Utah

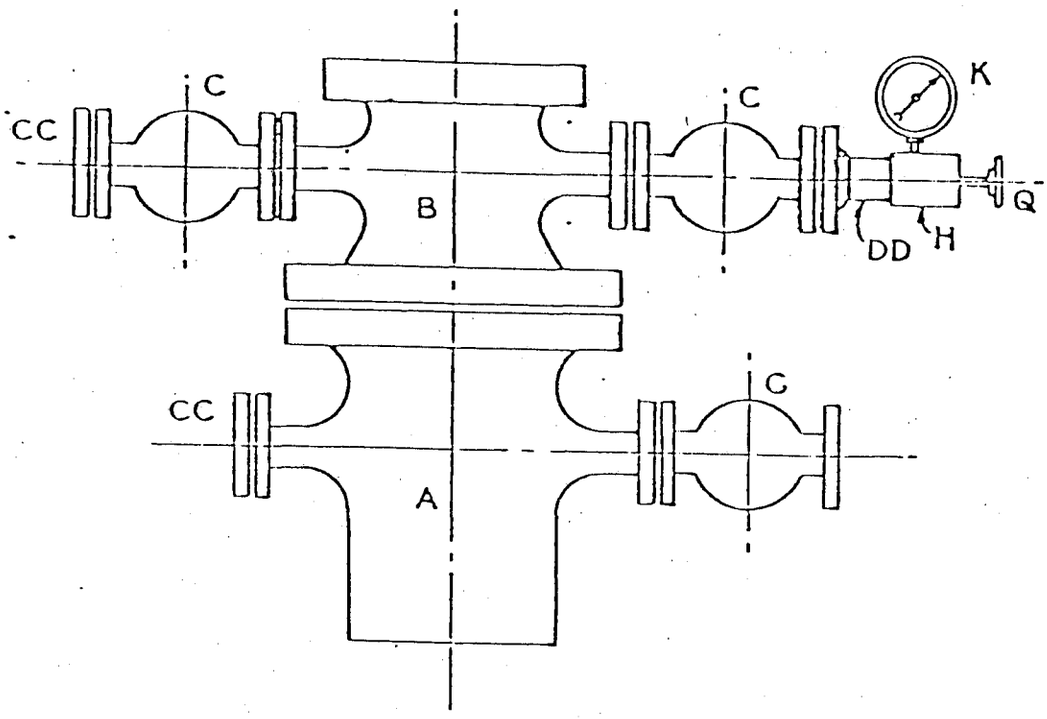
Rail Point = Evanston Wy 45 1/2 miles
Cement Point = Evanston Wy 45 1/2 miles
Mude Point = Evanston Wy 45 1/2 miles

Amoco W. I. %= 43.33%



Refers to Specification No. W-8
Effective Date: June 1, 1973

U. S. GEOLOGICAL SURVEY
FEB 15 1979
ROCK SPRINGS, WYOMING



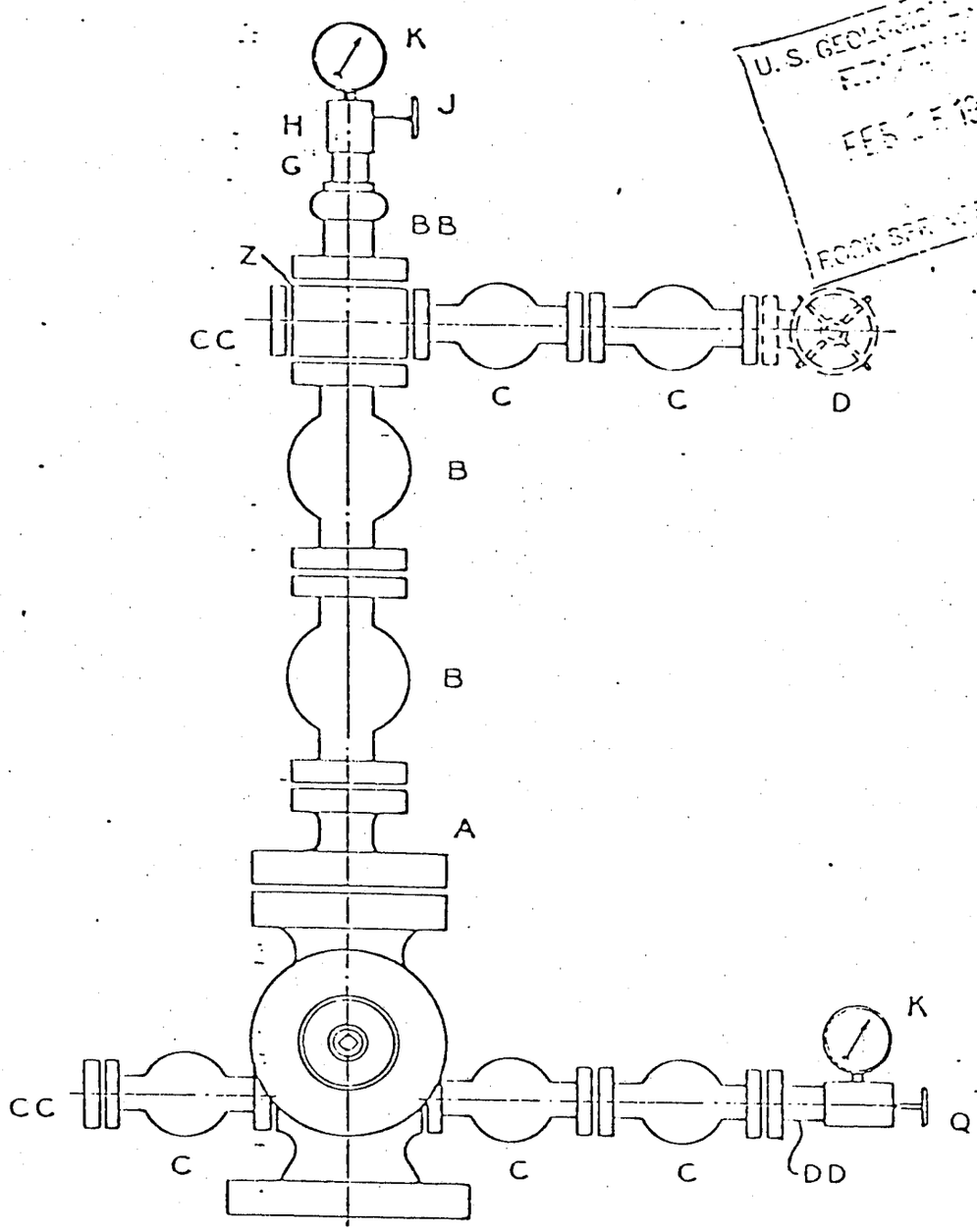
FOR 5,000# W. P. PRIMARY CASINGHEAD,
AND 5,000# W.P. SECONDARY CASINGHEAD.

IF INTERMEDIATE STRING OF CASING NOT REQUIRED,
LOWER (PRIMARY) HEAD WILL BE ONLY CASINGHEAD USED.

Amoco Production Company	SCALE: NONE
STANDARD BASIC CASINGHEAD HOOK-UP	DR. WBB AP.
5 000# W. P.	DRG. No. A-8343

Refers to Specification No. W-8
Effective Date: June 1, 1973

U.S. GEOLOGICAL SURVEY
FEB 15 1979
BOOK SERVICE



Amoco Production Company
STANDARD BASIC WELL HEAD HOOK-UP
10,000# W.P.

SCALE: NONE
DR. W.J.A. AP. 2-6
DRG. A-8080

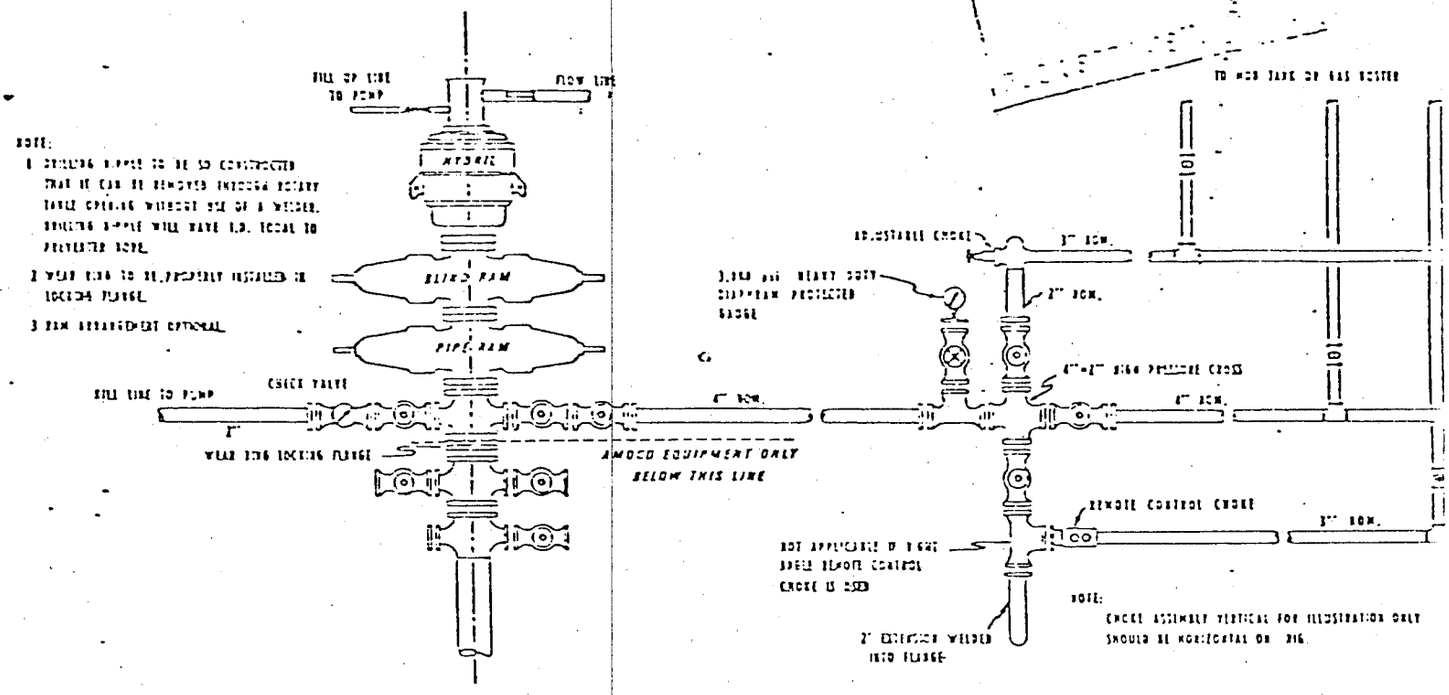
Amoco Production Company

MINIMUM BLOW-OUT PREVENTER REQUIREMENTS

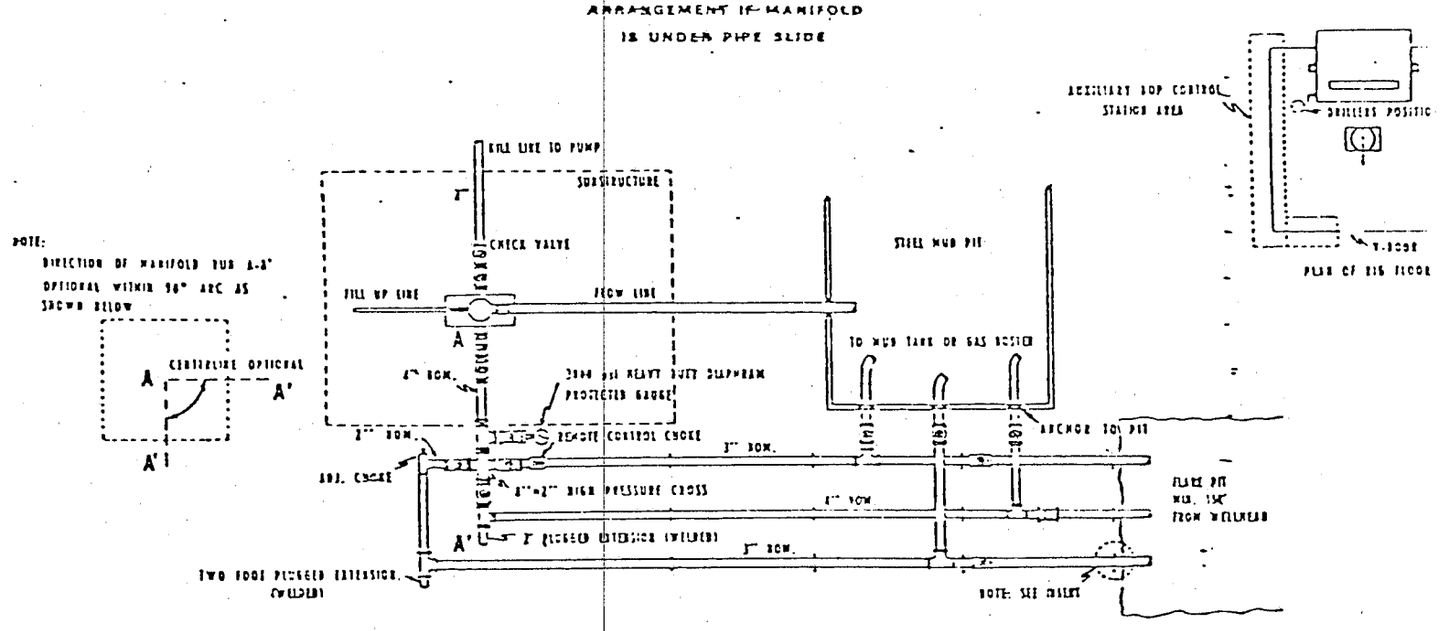
3,000 psi W.P.

2/74

ARRANGEMENT IF MANIFOLD IS ON SIDE OF RIG



ARRANGEMENT IF MANIFOLD IS UNDER PIPE SLIDE



NOTE:

1 BLOW-OUT PREVENTERS, ALL FITTINGS AND PIPE MUST BE 3,000 psi W.P. MINIMUM.

2 ALL FITTINGS UPSTREAM OF MANIFOLD TO BE FLANGED, SCREWED OR WELDED CONNECTIONS DOWNSTREAM FROM CHOKES PERMISSIBLE. ADJUSTABLE CHOKE MAY HAVE SCREWED CONNECTIONS.

3 ALL VALVES TO BE FULL OPENING, PLUG OR GATE — METAL TO METAL SEAL, AND 3,000 psi W.P. MINIMUM.

4 SAFETY VALVE MUST BE AVAILABLE ON THE FLOOR AT ALL TIMES WITH PROPER CONNECTIONS, VALVE TO BE FULL BORE 3,000 psi W.P. MINIMUM.

5 ALL LINES DOWNSTREAM OF CHOKE TO BE SECURELY ANCHORED EVERY 30' AND FOUR END OF CHOKE LINES.

6 EQUIPMENT THROUGH WHICH THE MUD MUST PASS SHALL BE AS LARGE AS THE DIAMETER OF THE CASING BEING DRILLED THROUGH.

7 EQUAL CHOKE OR EQUAL.

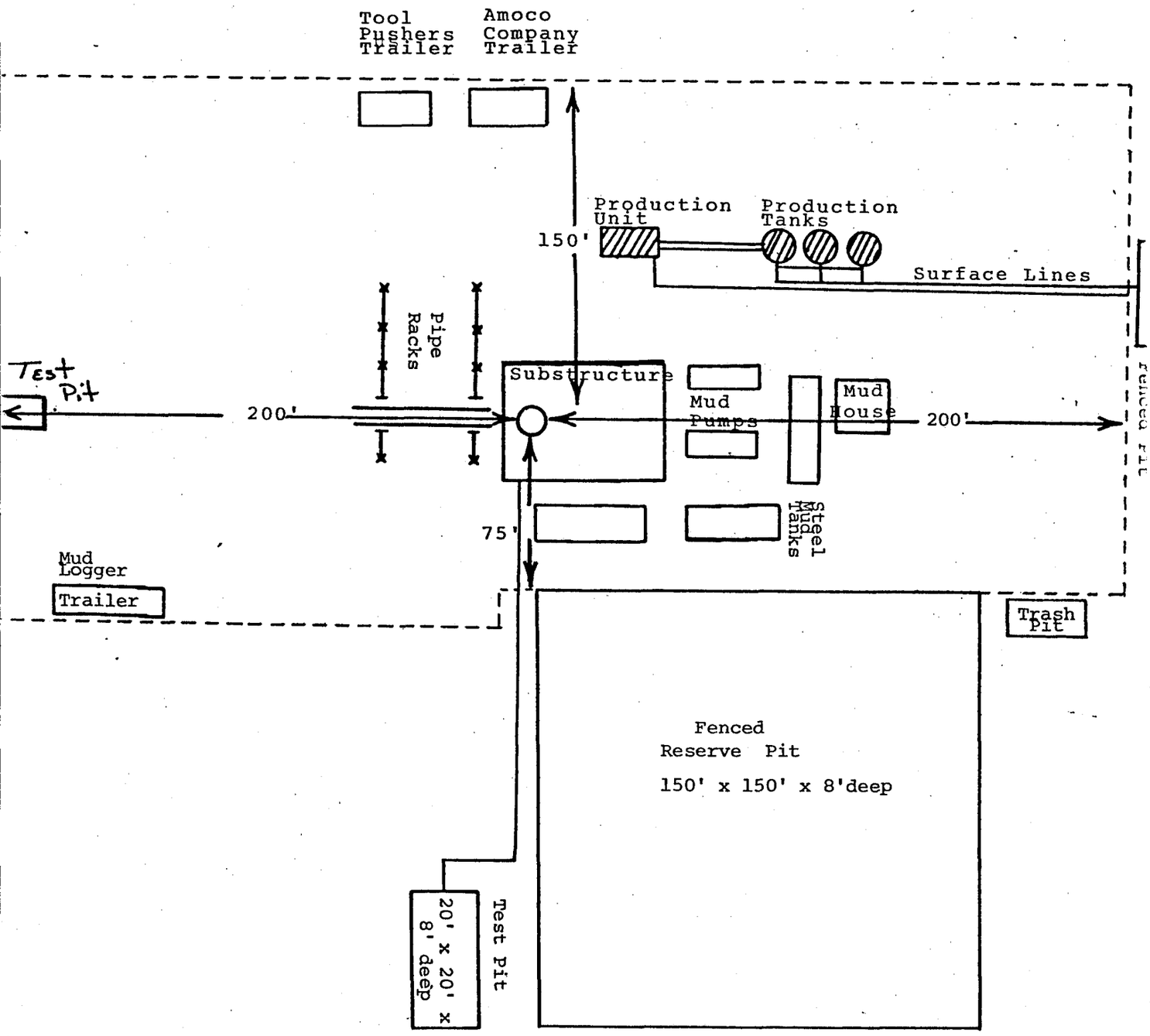
8 DRILLING NIPPLES AND MUD WHEELS TO BE PROPERLY INSTALLED AND ANCHORED AT ALL TIMES.

9 AUXILIARY BLOW-OUT PREVENTER CONTROL STATION TO BE LOCATED AS CLOSE TO DRILLERS POSITION AS FEASIBLE.

10 BLOW-OUT PREVENTER CLOSING EQUIPMENT TO INCLUDE AN ACCUMULATOR, AND TWO INDEPENDENT SOURCES OF PUMP POWER ON EACH CLOSING UNIT. INSTALLATION TO BE LOCATED AT LEAST 25' FROM STACK ON DRILLERS' SIDE OF RIG.

11 ALL CONNECTED PIPE MINIMUM 3" O.D. 1.5#, GRADE J-55 TUBING OR MIN. 3,000 psi W.P. 1.5#T PIPE.

12 REMOTE CONTROL CHOKE INSTALLATION AND LINE TO BE STRAIGHT AS POSSIBLE WITH NO 90° TURNS BELOW CHOKE.



= Shows permanent production equipment to be installed after drilling rig has moved out.

- - - - = Dotted lines indicated perimeter of leveled location.

The fenced pit used for production will be covered if any fluid is present. The drilling and production pads will be constructed with doxers and graders using native material.

TYPICAL LOCATION LAYOUT

AMOCO PRODUCTION COMPANY
P. O. Box 17675
SALT LAKE CITY, UTAL 84117

EXHIBIT "D"

** FILE NOTATIONS **

DATE: October 1, 1979

Operator: Amoco Production Company

Well No: Deseret W.I. Unit #1

Location: Sec. 2 T. 6N R. 5E County: Morgan

File Prepared: [ ] Entered on N.I.D.: [✓]

Card Indexed: [ ] Completion Sheet: [✓]

[✓] API Number 43-029-30009

CHECKED BY:

Geological Engineer: M.J. Minder 10-1-79

Petroleum Engineer:

Director:

APPROVAL LETTER:

Bond Required: [ ] Survey Plat Required: [ ]

#2

Order No. O.K. Rule C-3 [ ]

H_2S

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

information yes!

Lease Designation [Fee] Plotted on Map [✓]

Approval Letter Written [✓]

PI hl

October 3, 1979

Amoco Production Company
P.O. Box 17675
Salt Lake City, Utah 84117

Re: Well No. Deseret W.T. Unit #1
Sec. 2, T. 6N, R. 5E.,
Morgan County, Utah

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

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

MICHAEL T. MINDER	FRANK M. HAMNER
Geological Engineer	Chief Petroleum Engineer
Office: 533-5771	Office: 533-5771
Home: 876-3001	Home: 531-7827

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (acquifers) 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 43-029-30009.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Michael T. Minder
Geological Engineer

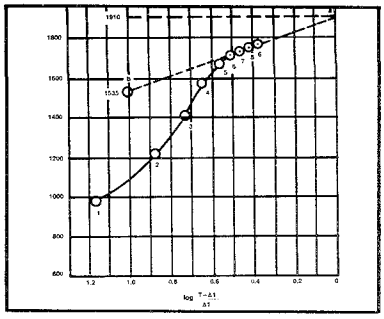
/btm

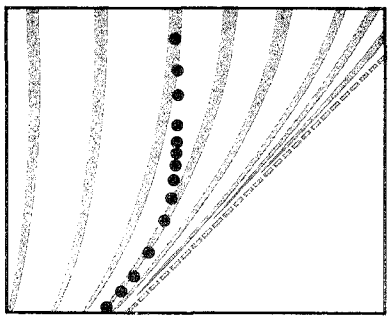
COMPANY AMOCO PRODUCTION CO. WELL DESERET W.I. UNIT #1 TEST NO. 3 COUNTY MORGAN STATE UTAH

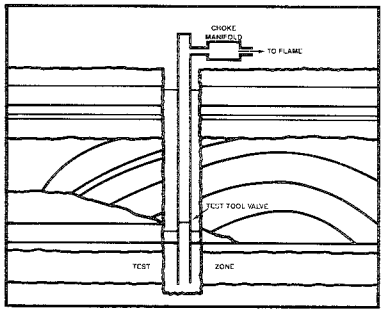
JOHNSTON

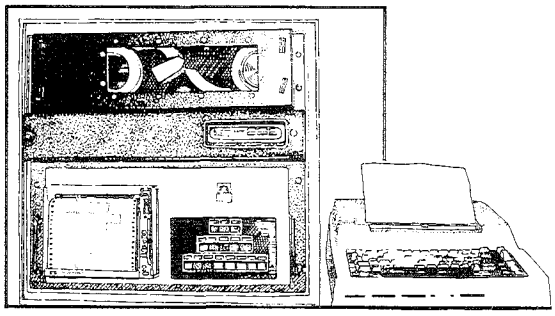
Schlumberger

Teleflow Test Systems Reservoir Analysis









FR # 15536 D

JS-107-A

JOHNSTON
Schlumberger

COMPUTERIZED DATA ANALYSIS

FEBRUARY 28, 1980

GENTLEMEN:

THE ENCLOSED TEST APPEARS TO BE A GOOD MECHANICAL DRILL STEM TEST DURING WHICH THE TOOLS DID FUNCTION PROPERLY. THE FORMATION PRODUCED ENOUGH RESERVOIR FLUID FOR PROPER IDENTIFICATION. RESERVOIR PRESSURE DRAWDOWN WAS SUFFICIENT AND ADEQUATE SHUT-IN BUILD-UPS DID OCCUR FOR RELIABLE QUANTITATIVE ANALYSIS. RESERVOIR PARAMETERS WERE CALCULATED BY THE HORNER METHOD.

1. FLOW RATE: A TOTAL LIQUID RATE OF 4414 BBLS/DAY WAS NOTED DURING THIS TEST.

2. RESERVOIR PRESSURE: EXTRAPOLATION OF THE INITIAL SHUT-IN PRESSURE BUILD-UP INDICATES A MAXIMUM RESERVOIR PRESSURE OF 5139 P.S.I.G. AT RECORDER DEPTH. EXTRAPOLATION OF THE FINAL SHUT-IN PRESSURE BUILD-UP INDICATES A MAXIMUM RESERVOIR PRESSURE OF 5146 P.S.I.G. AT RECORDER DEPTH. THE DIFFERENCE BETWEEN THE INITIAL AND FINAL SHUT-IN PRESSURE OF +7 P.S.I.G. IS INSIGNIFICANT.

3. PERMEABILITY: THE CALCULATED TRANSMISSIBILITY FACTOR OF 12430 MD.-FT./CP. INDICATES AN AVERAGE EFFECTIVE PERMEABILITY TO TOTAL LIQUID OF 124 MD. FOR THE REPORTED 100 FOOT NET INTERVAL. THE CALCULATIONS WERE BASED ON A SLOPE OF 65.6 P.S.I./LOG CYCLE OBTAINED FROM THE INITIAL SHUT-IN BUILD-UP PLOT. IT WAS ASSUMED FOR THESE CALCULATIONS THE PRODUCT OF THE TOTAL LIQUID VISCOSITY AND FORMATION VOLUME FACTOR TO BE 1.0.

4. WELLBORE DAMAGE: THE CALCULATED DAMAGE RATIO OF 2.36 INDICATES THAT WELLBORE DAMAGE IS PRESENT AT THE TIME AND CONDITIONS OF THIS TEST.

5. RADIUS OF INVESTIGATION: THE CALCULATED RADIUS OF INVESTIGATION OF THIS TEST IS 290 FEET BASED ON AN ASSUMED POROSITY OF 15%, COMPRESSIBILITY OF 3.3 X 10^{-6}, AND OTHER ASSUMPTIONS MADE IN NUMBER 3 ABOVE.

6. GENERAL COMMENTS: THE FORMATION EXHIBITS THE CHARACTERISTICS OF RELATIVELY HIGH PERMEABILITY EFFECTIVE TO THE RESERVOIR FLUID AND INDICATES THE PRESENCE OF WELLBORE DAMAGE. VALUES PRESENTED ARE BASED ON THE INITIAL FLOW AND SHUT-IN PERIOD.

Stephen Gardner
STEPHEN GARDNER
RESERVOIR EVALUATION
DEPARTMENT

AMOCO PRODUCTION COMPANY
DESERET W.I. UNIT #1; MORGAN COUNTY, UTAH
TEST #3; 13240' TO 13380'
LOCATION: SEC. 2 - T6N - R5E

FIELD REPORT # 15536 D

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

Reservoir Engineering Data

JOHNSTON

Recorder No. J-536 Field Report No. 15536 D

Damage Ratio	DR	2.36		Effective Transmissibility TOTAL LIQUID	$\frac{Kh}{\mu B}$	12430	$\frac{Md\text{-}ft.}{Cp.}$
Maximum Reservoir Pressure FINAL SHUT-IN	P_o	5146	P.S.I.G.	Effective Transmissability	$\frac{Kh}{\mu B}$	–	$\frac{Md\text{-}ft.}{Cp.}$
Slope of Shut-in Curve INITIAL SHUT-IN	M	65.6	PSI/log cycle	Flow Rate TOTAL LIQUID	Q	4414	Bbl./day
Potentiometric Surface (Datum Plane, Sea Level)	PS	6355	ft.	Pressure Gradient		.388	PSI/ft.
Productivity Index	PI	5.81	Bbl./day/PSI	Gas Oil Ratio	GOR	–	CF/Bbl.
Radius of Investigation		290	ft.	K (Effective to TOTAL LIQUID)		124	Md.

SLOPE M = 5155 – 5089.4 = 65.6

Assumptions made for Calculations for Liquid Recoveries

1. Q is averaged at a constant rate.
2. P_f is formation flowing pressure at a constant rate.
3. Formation flow is taken as single phase flow.
   If gas is produced at surface, phase separation is assumed to have occurred in drill pipe.
4. Radial flow is assumed.
5. For the purpose of calculating EDR where specific reservoir parameters are not available it is assumed that:

   Effective permeability, K, will fall between ..... 1 to 200 md
   Formation porosity, ϕ, will fall between ..... 0.1 to 0.3
   Fluid compressibility, c, will fall between ..... 10^{-6} to 10^{-4}
   Fluid viscosity, μ, will fall between ..... 0.05 to 50 cp.
   Well bore radius, r_w, will fall between ..... $3\frac{7}{8}$" to $4\frac{3}{8}$"

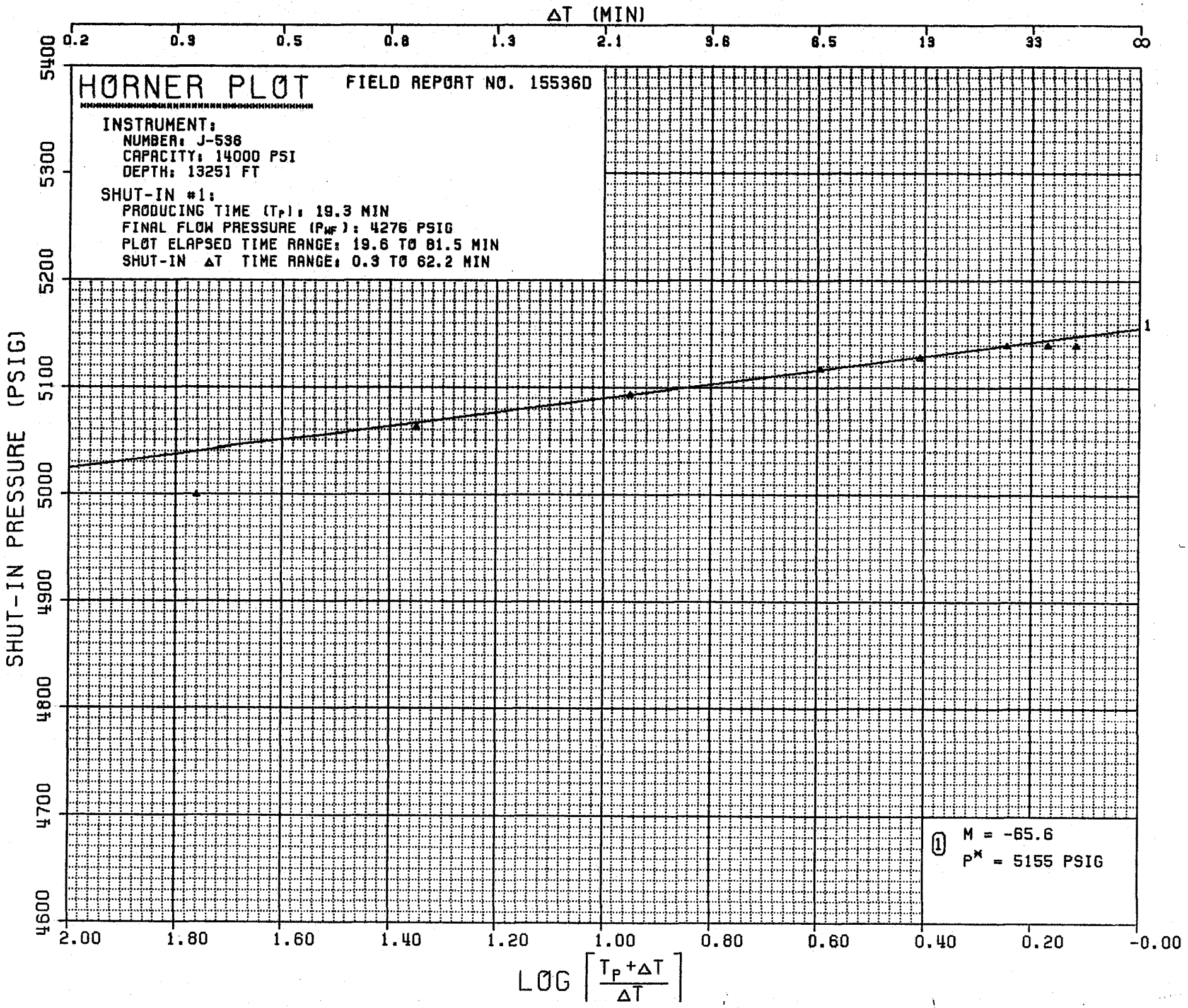
   Which gives an average value for the function log $\frac{K}{\phi\mu c r_w^2}$ of 5.5

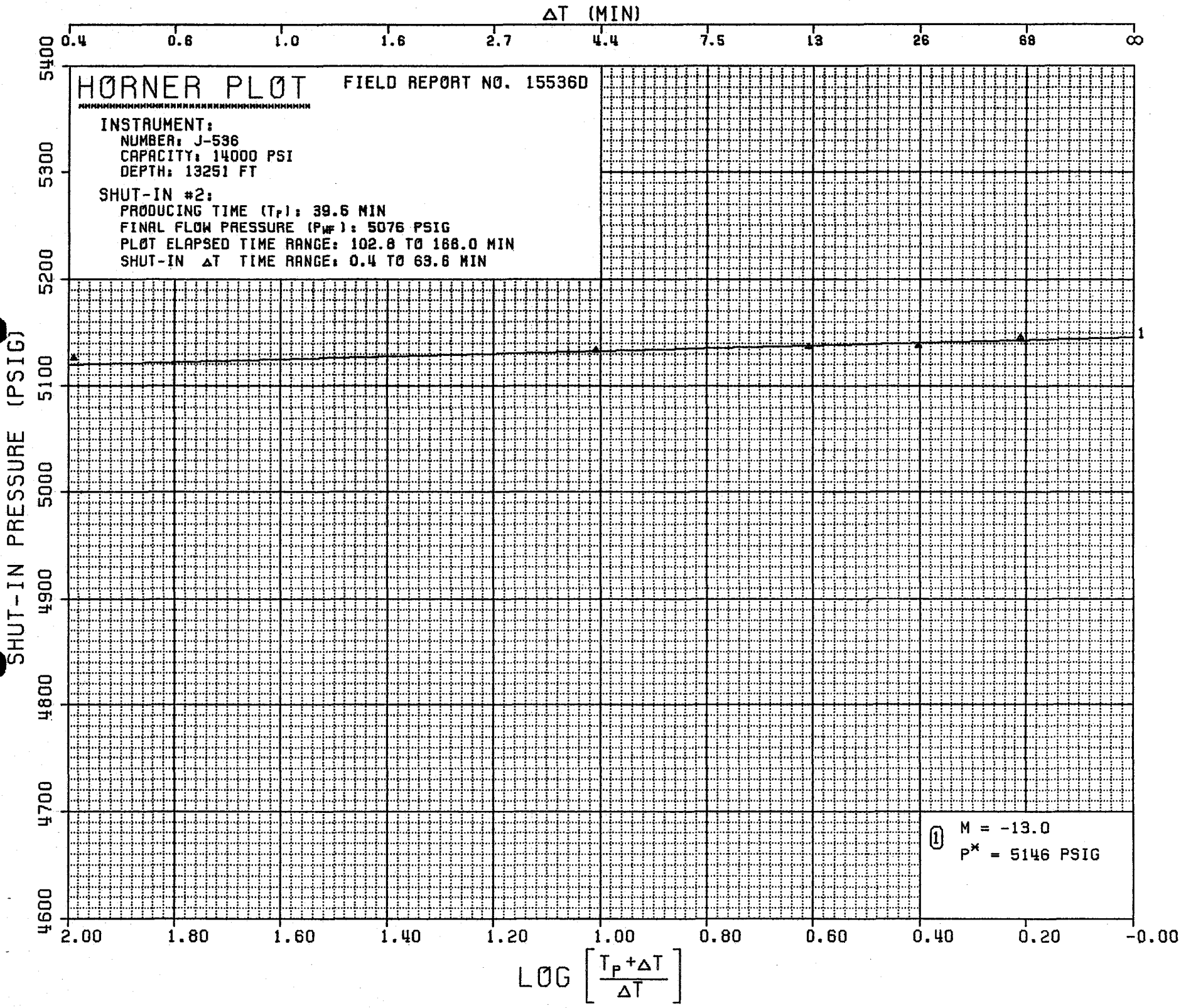
6. Other standard radial flow, equilibrium assumptions.

Empirical Equations:

1. $EDR = \frac{P_o - P_f}{M(\log T + 2.65)}$ where $M = \frac{P_1 - P_{10}}{\text{Log Cycle}}$
2. Transmissibility $\frac{Kh}{\mu\beta} = \frac{162.6\ Q}{M}$
3. DST $J = \frac{Q}{P_o - P_f}$ Theoretical $J = \frac{7.08 \times 10^{-1}\ Kh}{\mu\beta \ln (r_e/r_w)}$ Assumed $\ln (r_e/r_w) = 7.60$
4. P.S. = [$P_o \times 2.309$ ft./PSI] – [Recorder depth to sea level.]
5. Radius of investigation, $r_i = \sqrt{\frac{Kt}{40\phi\mu c}}$ where t = time in days

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


ΔT (MIN)
0.2
0.3
0.5
0.8
1.3
2.1
3.6
6.5
13
33
∞
HØRNER PLØT
FIELD REPØRT NØ. 15536D
INSTRUMENT:
NUMBER: J-536
CAPACITY: 14000 PSI
DEPTH: 13251 FT
SHUT-IN #1:
PRODUCING TIME (T_P): 19.3 MIN
FINAL FLOW PRESSURE (P_{WF}): 4276 PSIG
PLØT ELAPSED TIME RANGE: 19.6 TØ 81.5 MIN
SHUT-IN ΔT TIME RANGE: 0.3 TØ 62.2 MIN
SHUT-IN PRESSURE (PSIG)
5400
5300
5200
5100
5000
4900
4800
4700
4600
1
1
M = -65.6
P^* = 5155 PSIG
2.00
1.80
1.60
1.40
1.20
1.00
0.80
0.60
0.40
0.20
-0.00
LØG $\left[\frac{T_P+\Delta T}{\Delta T}\right]$


ΔT (MIN)
0.4
0.6
1.0
1.6
2.7
4.4
7.5
13
26
68
∞
HØRNER PLØT
FIELD REPØRT NØ. 15536D
INSTRUMENT:
NUMBER: J-536
CAPACITY: 14000 PSI
DEPTH: 13251 FT
SHUT-IN #2:
PRODUCING TIME (T_P): 39.6 MIN
FINAL FLOW PRESSURE (P_{WF}): 5076 PSIG
PLØT ELAPSED TIME RANGE: 102.8 TØ 168.0 MIN
SHUT-IN ΔT TIME RANGE: 0.4 TØ 63.6 MIN
SHUT-IN PRESSURE (PSIG)
5400
5300
5200
5100
5000
4900
4800
4700
4600
1
M = -13.0
P^* = 5146 PSIG
2.00
1.80
1.60
1.40
1.20
1.00
0.80
0.60
0.40
0.20
-0.00
LØG $\left[\frac{T_P+\Delta T}{\Delta T}\right]$

FIELD REPORT NO. 15536D

INSTRUMENT:

NUMBER: J-536

CAPACITY: 14000 PSI

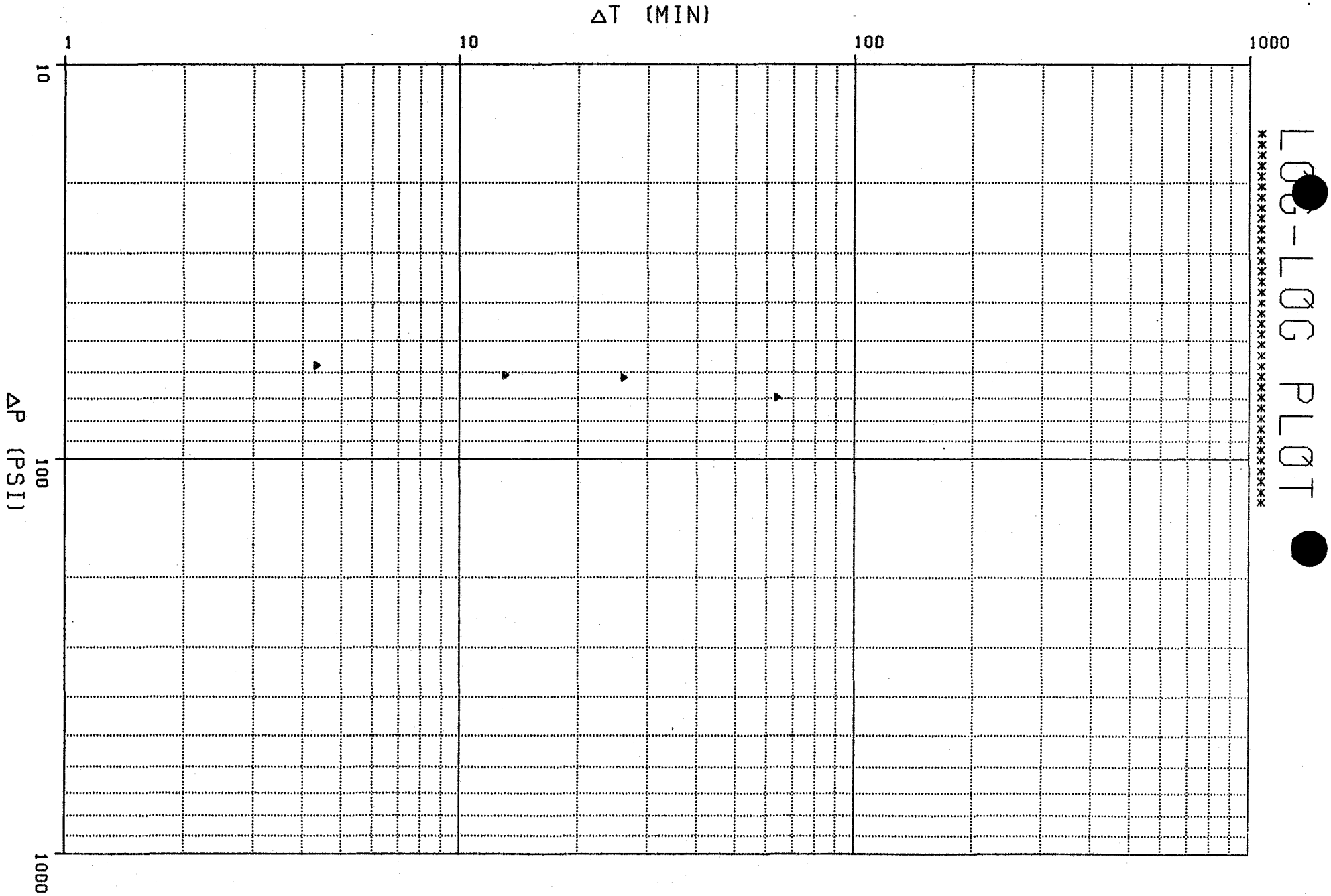
DEPTH: 13251 FT

SHUT-IN #2:

FINAL FLOW PRESSURE (P_{WF}): 5076 PSIG

PLOT ELAPSED TIME RANGE: 106.8 TO 166.0 MIN

SHUT-IN ΔT TIME RANGE: 4.3 TO 63.6 MIN



WELL IDENTIFICATION

COMPANY:	AMOCO PRODUCTION COMPANY P.O. BOX 829 EVANSTON, WYOMING 82930	CUSTOMER:	SAME
WELL:	DESERET W.I. UNIT #1	LOCATION:	SEC. 2 - T6N - R5E
TEST INTERVAL:	13240' TO 13380'	FIELD:	WILD CAT
TEST NO:	3	TEST DATE:	2-14-80
COUNTY:	MORGAN	STATE:	UTAH
TECHNICIAN:	PITT/SLEZAK (VERNAL)	TEST APPROVED BY:	-

EQUIPMENT AND HOLE DATA

TEST TYPE:	M.F.E. OPEN HOLE		DRILL PIPE LENGTH:	12592	FT.
			DRILL PIPE I.D.:	3.826	IN.
ELEVATION:	7740 G.L.	FT.	DRILL COLLAR LENGTH:	610	FT.
TOTAL DEPTH:	13380	FT.	DRILL COLLAR I.D.:	2.5	IN.
MAIN HOLE/CASING SIZE:	8 1/2	IN.	PACKER DEPTHS:	13236 & 13240	FT.
RAT HOLE/LINER SIZE:	-	IN.		&	FT.
FORMATION TESTED:	MADISON			&	FT.
NET PROD. INTERVAL:	100	FT.	DEPTHS REF. TO:	KELLY BUSHING	
POROSITY:	15	%			

TEST TOOL CHAMBER DATA

SAMPLER PRESSURE:	0	PSIG
RECOVERED OIL GRAVITY:	- API @	- DEG. F.
RECOVERY GOR:	-	FT3/BBL.

SAMPLE CHAMBER CONTENTS

FLUID	VOLUME	RESIST. (OHM-M)	MEAS. TEMP. (DEG F.)	CHLOR. (PPM)
GAS:	- FT.3			
OIL:	- CC			
WATER:	2500 CC	.70	58	3000
MUD:	- CC			
FILTRATE:				
TOTAL LIQUID:	2500 CC			

MUD DATA

TYPE:	LSND	
WEIGHT:	8.8	LB/GAL.
VISCOSITY:	55	SEC.
WATER LOSS:	9.2	CC

FLUID	RESIST (OHM-M)	TEMP (DEG F)	CHLOR (PPM)
MUD:	.75	48	
FILTRATE:	.95	50	1900

REMARKS

"TELEFLOW TEST SYSTEM"

NO. OF REPORTS REQUESTED: 18 (1X)

FIELD REPORT NO. 15536D

SURFACE INFORMATION

DESCRIPTION(RATE OF FLOW)	TIME	PRESSURE PSIG	SURFACE CHOKE
SEE TELEFLOW SURFACE INFORMATION SHEET			

CUSHION TYPE: WATER	3000 FT	- PSIG	15/16 IN. BOTTOM CHOKE

RECOVERY INFORMATION

RECOVERY	FEET	BARRELS	%OIL	%WATER	%OTHERS	API GRAV.	DEG.	RESIST	DEG.	CHL PPM
WATER CUSHION (NH4)	3000	37.64						.80	60	3300
FORMATION WATER	8549	121.40								

FIELD REPORT NO. 15536D

JOHNSTON
Schlumberger

TELEFLOW SURFACE INFORMATION

RATES BASED ON EITHER PURE LIQUID OR PURE GAS PRODUCTION

FIELD REPORT NO.
15536 D

DESCRIPTION	TIME HR MIN	TIME Δ MIN	PRESSURE (PSIG)	ΔP/ΔT (PSIG)	GAS RATE (MCFD)	LIQUID RATE (BBL/DAY)	COMMENTS AND RECOMMENDATIONS
OPENED TOOL	1004	–	–	–		–	CLOSED CHAMBER
	1006	2	0.652	0.353		5699	AVERAGE FLOW RATE; 5900 BBL/DAY
	1008	4	1.545	0.552		7706	
	1010	6	2.564	0.588		7039	
	1012	8	3.729	0.740		7533	
	1014	10	5.093	0.701		5989	MISSED SHUT-IN; FLOW 11 MORE MINUTES
	1019	15	9.281	0.893		–	
	1024	20	15.018	1.239		–	
CLOSED FOR INITIAL SHUT-IN	1025	–	16.288	0.055		–	BLOWDOWN CALCULATED 83.67 BBL RECOVERY
FINISHED SHUT-IN	1128	63	–	–		–	
RE-OPENED TOOL	1129	–	–	–		–	
	1131	2	1.293	0.624		3704	
	1133	4	2.581	0.710		3467	AVERAGE FLOW RATE FOR TEST 4095 BBL/DAY
	1135	6	3.973	0.742		2988	
	1137	8	5.434	0.733		2457	
	1139	10	6.981	0.937		2614	
	1141	12	8.498	0.772		1845	
	1143	14	9.976	0.690		1427	
	1145	16	11.371	0.710		1292	
	1147	18	12.615	0.562		919	
	1149	20	13.402	0.480		736	
CLOSED FOR FINAL SHUT-IN	1150	–	13.716	0.356		–	BLOWDOWN CALCULATED 30.4 BBL RECOVERY DURING FINAL FLOW
FINISHED SHUT-IN	1250	–	–	–		–	
PULLED PACKER LOOSE	1251	–	–	–		–	
STARTED REVERSING	1410	–	–	–		–	
FINISHED REVERSING	1900	–	–	–		–	

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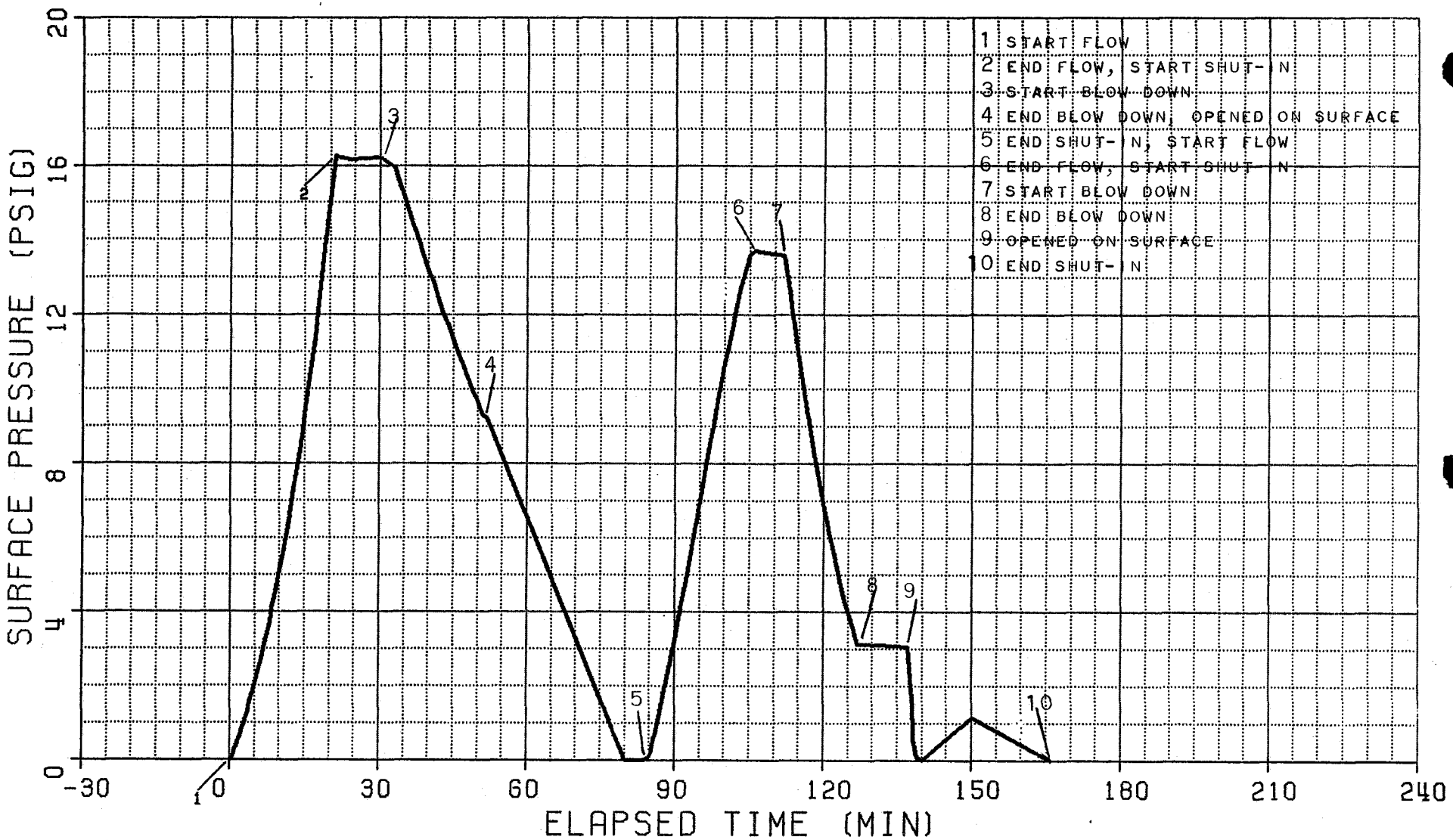
TELEFLOW SURFACE PRESSURE LOG

FIELD REPORT NO. 15536D



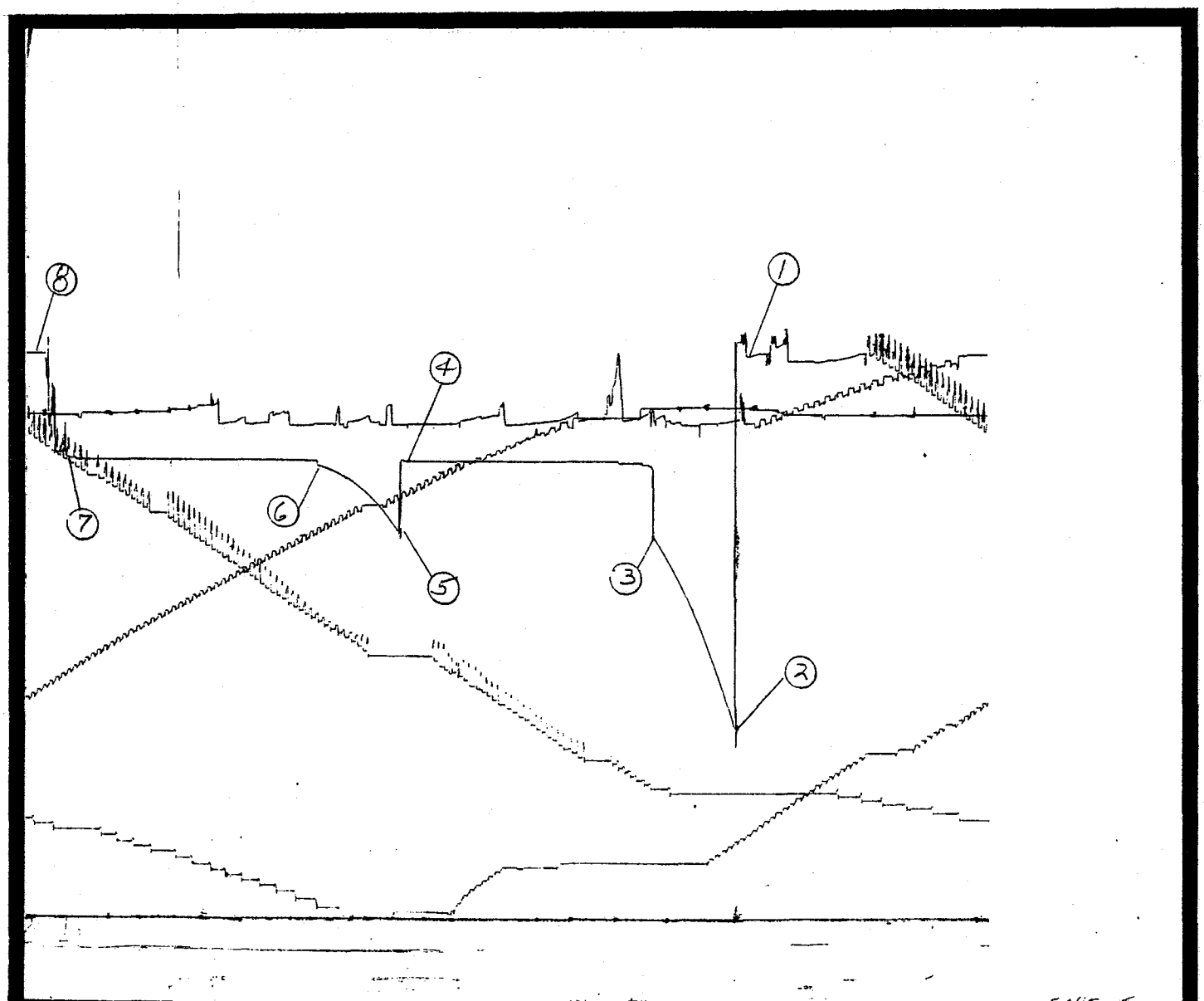
FIELD REPORT NO.: 15536 D

CAPACITY: 9000#

INSTRUMENT NO.: J-045

NUMBER OF REPORTS: 18+

JOHNSTON
Schlumberger



JS—167

BOTTOM HOLE PRESSURE AND TIME DATA

INSTRUMENT NO.: J-Ø45 CAPACITY (PSI): 9ØØØ DEPTH (FT): 13245
PORT OPENING: INSIDE BOTTOM HOLE TEMP (F): 2Ø8

EXPLANATION	LABELED POINT	PRESSURE (PSIG)	ELAPSED TIME (MIN)
HYDROSTATIC MUD	1	6221	-2.3
START FLOW	2	2115	Ø.Ø
END FLOW & START SHUT-IN	3	4224	2Ø.3
END SHUT-IN	4	5Ø69	82.4
START FLOW	5	43Ø4	83.4
END FLOW & START SHUT-IN	6	5Ø29	1Ø3.8
END SHUT-IN	7	5116	166.1
HYDROSTATIC MUD	8	6255	174.5

* SUMMARY OF FLOW PERIODS *

FLOW PERIOD	ELAPSED TIME AT START (MIN)	ELAPSED TIME AT END (MIN)	DURATION OF FLOW (MIN)	PRESSURE AT START (PSIG)	PRESSURE AT END (PSIG)
1	Ø.Ø	2Ø.3	2Ø.3	2115	4224
2	83.4	1Ø3.8	2Ø.4	43Ø4	5Ø29

* SUMMARY OF SHUT-IN PERIODS *

SHUT-IN PERIOD	ELAPSED TIME AT START (MIN)	ELAPSED TIME AT END (MIN)	DURATION OF SHUT-IN (MIN)	PRESSURE AT START (PSIG)	PRESSURE AT END (PSIG)	FINAL FLOW PRESSURE (PSIG)	PRODUCING TIME (MIN)
1	2Ø.3	82.4	62.1	4224	5Ø69	4224	2Ø.3
2	1Ø3.8	166.1	62.3	5Ø29	5116	5Ø29	4Ø.7

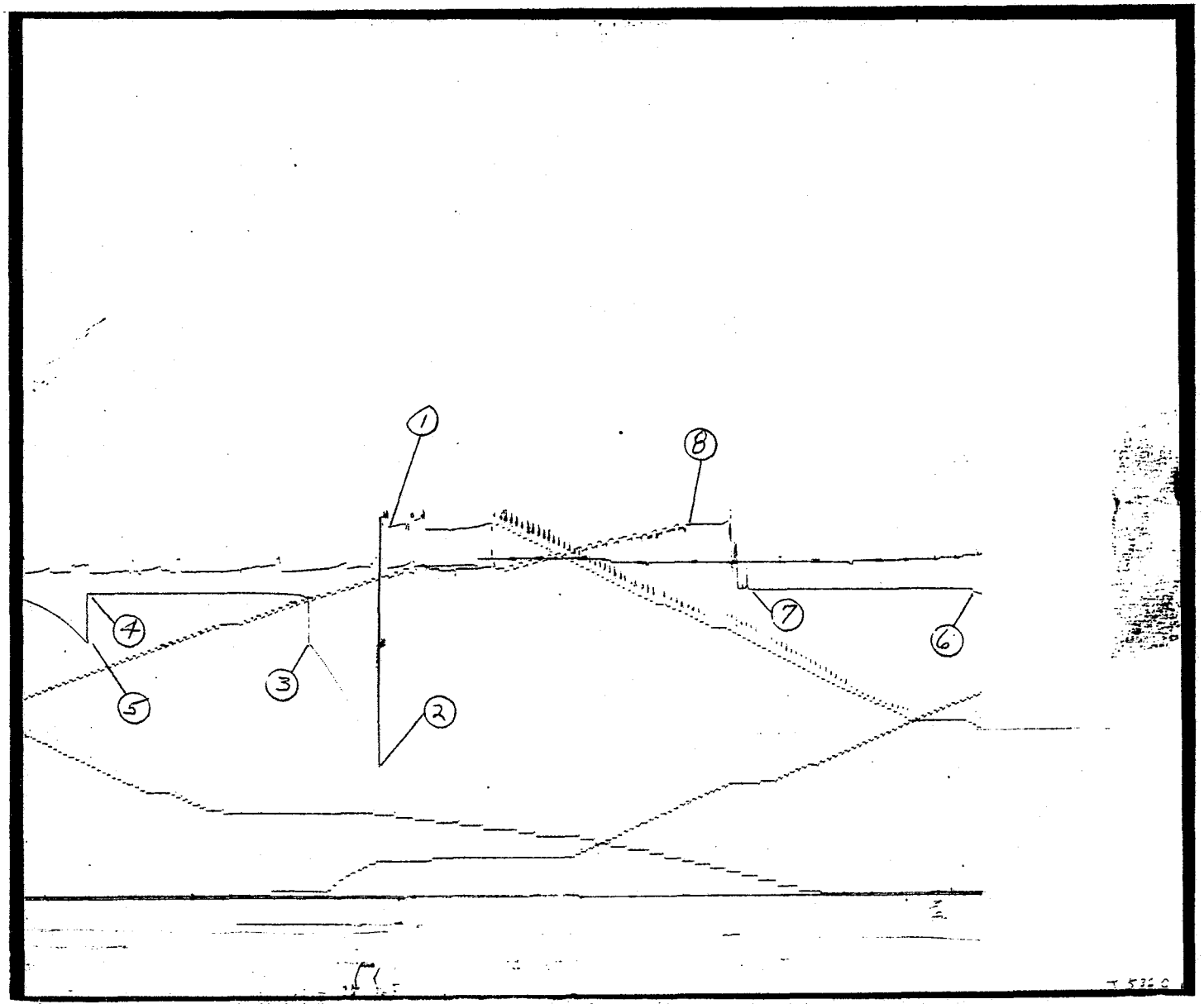
FIELD REPORT NO.: 15536 D

CAPACITY: 14000#

INSTRUMENT NO.: J-536

NUMBER OF REPORTS: 18+

JOHNSTON
Schlumberger



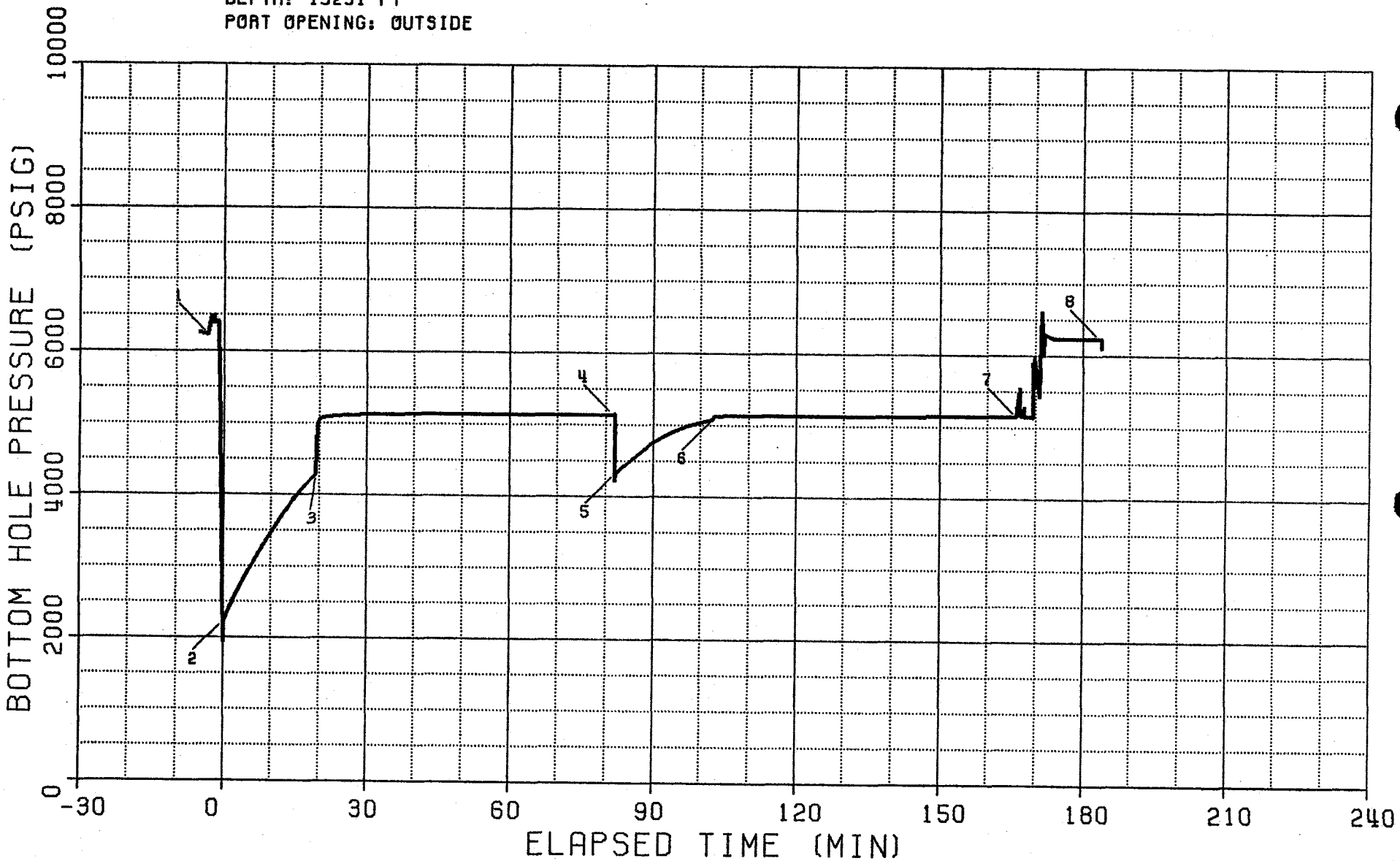
JS—167

PRESSURE LOG

FIELD REPORT NO. 15536D

INSTRUMENT:

NUMBER: J-536
CAPACITY: 14000 PSI
DEPTH: 13251 FT
PORT OPENING: OUTSIDE



BOTTOM HOLE PRESSURE AND TIME DATA

INSTRUMENT NO.: J-536 CAPACITY (PSI): 14000 DEPTH (FT): 13251
PORT OPENING: OUTSIDE BOTTOM HOLE TEMP (F): 208

EXPLANATION	LABELED POINT	PRESSURE (PSIG)	ELAPSED TIME (MIN)
HYDROSTATIC MUD	1	6223	-3.3
START FLOW	2	2229	0.0
END FLOW & START SHUT-IN	3	4276	19.3
END SHUT-IN	4	5139	81.5
START FLOW	5	4323	82.1
END FLOW & START SHUT-IN	6	5076	102.4
END SHUT-IN	7	5145	166.0
HYDROSTATIC MUD	8	6233	183.5

* SUMMARY OF FLOW PERIODS *

FLOW PERIOD	ELAPSED TIME AT START (MIN)	ELAPSED TIME AT END (MIN)	DURATION OF FLOW (MIN)	PRESSURE AT START (PSIG)	PRESSURE AT END (PSIG)
1	0.0	19.3	19.3	2229	4276
2	82.1	102.4	20.4	4323	5076

* SUMMARY OF SHUT-IN PERIODS *

SHUT-IN PERIOD	ELAPSED TIME AT START (MIN)	ELAPSED TIME AT END (MIN)	DURATION OF SHUT-IN (MIN)	PRESSURE AT START (PSIG)	PRESSURE AT END (PSIG)	FINAL FLOW PRESSURE (PSIG)	PRODUCING TIME (MIN)
1	19.3	81.5	62.2	4276	5139	4276	19.3
2	102.4	166.0	63.6	5076	5145	5076	39.6

FIELD REPORT NO. 15536D
INSTRUMENT NO. J-536

TEST PHASE : FLOW PERIOD # 1

ELAPSED TIME (MIN)	DELTA TIME (MIN)	FLOWING PRESSURE (PSIG)
0.0	0.0	2229
5.0	5.0	2914
10.0	10.0	3476
15.0	15.0	3964
19.3	19.3	4276

TEST PHASE : SHUT-IN PERIOD # 1

1. FINAL FLOW PRESSURE ["P_{WF}"] = 4276 PSIG
2. PRODUCING TIME ["T_P"] = 19.3 MIN

ELAPSED TIME (MIN)	DELTA TIME ["DT"] (MIN)	SHUT-IN PRESSURE ["P_{WS}"] (PSIG)	LOG [(T_P+DT)/DT]	DELTA PRESSURE [P_{WS} - P_{WF}]
19.3	0.0	4276		0
20.3	1.0	5065	1.307	789
21.3	2.0	5084	1.027	808
22.3	3.0	5096	0.870	820
23.3	4.0	5102	0.765	826
24.3	5.0	5108	0.686	832
25.3	6.0	5114	0.624	838
26.3	7.0	5118	0.574	843
27.3	8.0	5120	0.532	844
28.3	9.0	5122	0.497	846
29.3	10.0	5124	0.466	848
31.3	12.0	5127	0.416	852
33.3	14.0	5129	0.376	854
35.3	16.0	5131	0.343	855
37.3	18.0	5133	0.316	857
39.3	20.0	5135	0.293	859
41.3	22.0	5136	0.273	861
43.3	24.0	5138	0.256	862
45.3	26.0	5139	0.241	863
47.3	28.0	5139	0.227	863
49.3	30.0	5139	0.215	863
54.3	35.0	5139	0.190	863
59.3	40.0	5139	0.171	863
64.3	45.0	5139	0.155	863
69.3	50.0	5139	0.142	863
74.3	55.0	5139	0.130	863
79.3	60.0	5139	0.121	863
81.5	62.2	5139	0.117	863

FIELD REPORT NO. 15536D
INSTRUMENT NO. J-536

TEST PHASE : FLOW PERIOD # 2
****

ELAPSED TIME (MIN)	DELTA TIME (MIN)	FLOWING PRESSURE (PSIG)
82.1	0.0	4323
87.1	5.0	4601
92.1	10.0	4825
97.1	15.0	4984
102.1	20.0	5071
102.4	20.4	5076

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

1. FINAL FLOW PRESSURE ["P_{WF}"] = 5076 PSIG
2. PRODUCING TIME ["T_P"] = 39.6 MIN

ELAPSED TIME (MIN)	DELTA TIME ["DT"] (MIN)	SHUT-IN PRESSURE ["P_{WS}"] (PSIG)	LOG [(T_P+DT)/DT]	DELTA PRESSURE [P_{WS} - P_{WF}]
102.4	0.0	5076		0
103.4	1.0	5127	1.609	51
104.4	2.0	5129	1.318	53
105.4	3.0	5131	1.153	55
106.4	4.0	5133	1.038	57
107.4	5.0	5134	0.951	58
108.4	6.0	5134	0.881	58
109.4	7.0	5135	0.824	59
110.4	8.0	5135	0.775	59
111.4	9.0	5135	0.733	59
112.4	10.0	5136	0.696	60
114.4	12.0	5137	0.634	61
116.4	14.0	5137	0.583	61
118.4	16.0	5137	0.541	61
120.4	18.0	5137	0.505	61
122.4	20.0	5137	0.475	61
124.4	22.0	5137	0.447	62
126.4	24.0	5138	0.424	62
128.4	26.0	5138	0.402	62
130.4	28.0	5138	0.383	62
132.4	30.0	5138	0.366	63
137.4	35.0	5139	0.329	64
142.4	40.0	5140	0.299	65
147.4	45.0	5142	0.274	66
152.4	50.0	5143	0.254	67
157.4	55.0	5144	0.236	68
162.4	60.0	5145	0.220	69
166.0	63.6	5145	0.210	69

JS-164

TELEFLOW TEST SYSTEM

JOHNSTON

Schlumberger

technical report

SALT LAKE CITY DIST.
RECEIVED

FEB 7 '80

ROUTE AS FOLLOWS		
D. SUPT.		
D. A. SUPV.		
D. ENGR.		
AS-FINC		
AS-PROD		
AS-MATL.		
DF-DRL		
DF-COMP		

FILE	PER	CONT	MAN	P&C
	WELL	LSE	PLT	COR

COMPANY AMOCO PRODUCTION COMPANY WELL DESERT W.I.UNIT #1 TEST NO. 1 COUNTY MORGAN STATE UTAH

F.R. # 15519 D

JOHNSTON
Schlumberger

SURFACE INFORMATION

Description (Rate of Flow)	Time	Pressure (P.S.I.G.)	Surface Choke
Opened Tool			
–			

Cushion Type	Amount	Pressure	Bottom Choke
WATER & AMMONIA	2500'	–	Size 11/16''

MUD DATA

Mud Type – Wt. –
Viscosity – Water Loss – C.C.
Resist: of Mud – @ – °F; of Filtrate – @ – °F
Chloride Content – PPM

EQUIPMENT & HOLE DATA

Type Test M.F.E. OPEN HOLE
Formation Tested –
Elevation – Ft.
Net Productive Interval – Ft.
Estimated Porosity – %
All Depths Measured From KELLY BUSHING
Total Depth 11060 Ft.
Main Hole/Casing Size 7 7/8''
Rat Hole/Liner Size –
Drill Collar Length 531' I.D. 2.25''
Drill Pipe Length 10335' I.D. 3.80''
Packer Depth(s) 10896 & 10900 Ft.

MULTI-FLOW EVALUATOR FLUID SAMPLE DATA

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

	RESISTIVITY	CHLORIDE CONTENT
Recovery Water	____ @ ____ °F.	____ ppm
Recovery Mud	____ @ ____ °F.	
Recovery Mud Filtrate	____ @ ____ °F.	____ ppm
Mud Pit Sample	____ @ ____ °F.	
Mud Pit Sample Filtrate	____ @ ____ °F.	____ ppm

RECOVERY DESCRIPTION	FEET	BARRELS	% OIL	% WATER	% OTHERS	API GRAVITY	RESISTIVITY	CHL. PPM
–						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	

Remarks: UNSUCCESSFUL TEST; TOOL NEVER OPENED. ''TELEFLOW TEST SYSTEM''

Address P.O. BOX 17675; SALT LAKE CITY, UTAH 84117
Company AMOCO PRODUCTION COMPANY Field WILD CAT
Well DESERT W.I.UNIT #1 Location SEC. 2 – T6N – R5E
Test Interval 10900' TO 11060' (UNSUCCESSFUL) Test # 1 Date 1-18-80
County MORGAN State UTAH
Witnessed By RICHARDS/RIDDELL (VERNAL) –
Field Report No. 15519 D
No. Reports Requested 18 (1X)

BOTTOM HOLE PRESSURE AND TIME DATA

JS—193

JOHN[illegible] Schlumberger

PAGE NUMBER 2

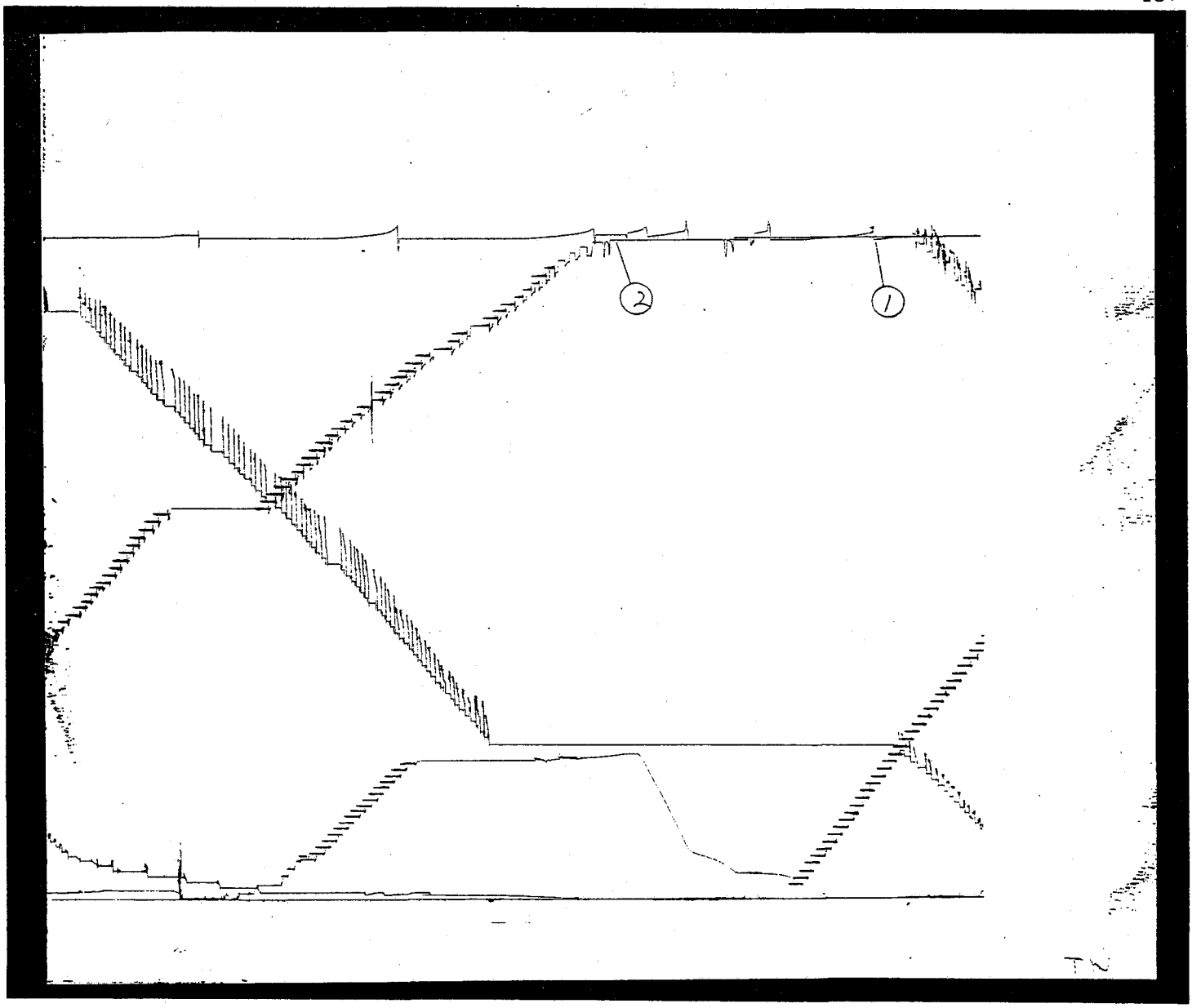
INSTRUMENT NUMBER	CAPACITY (P.S.I.)	DEPTH
J-355	6400#	11025
PORT OPENING	**BOTTOM HOLE TEMPERATURE**	**FIELD REPORT NUMBER**
INSIDE	176°F.	15519 D

DESCRIPTION	LABELED POINTS	PRESSURE (P.S.I.)	GIVEN TIME	COMPUTED TIME
INITIAL HYDROSTATIC MUD	1	5204.7		
INITIAL FLOW (1)				
INITIAL FLOW (2)				
INITIAL SHUT-IN				
SECOND FLOW (1)				
SECOND FLOW (2)				
SECOND SHUT-IN				
FINAL FLOW (1)				
FINAL FLOW (2)				
FINAL SHUT-IN				
FINAL HYDROSTATIC MUD	2	5207.3		

REMARKS:

UNSUCCESSFUL TEST.

18+



BOTTOM HOLE PRESSURE AND TIME DATA

JS—193

JOHNS Schlumberger

PAGE NUMBER 3

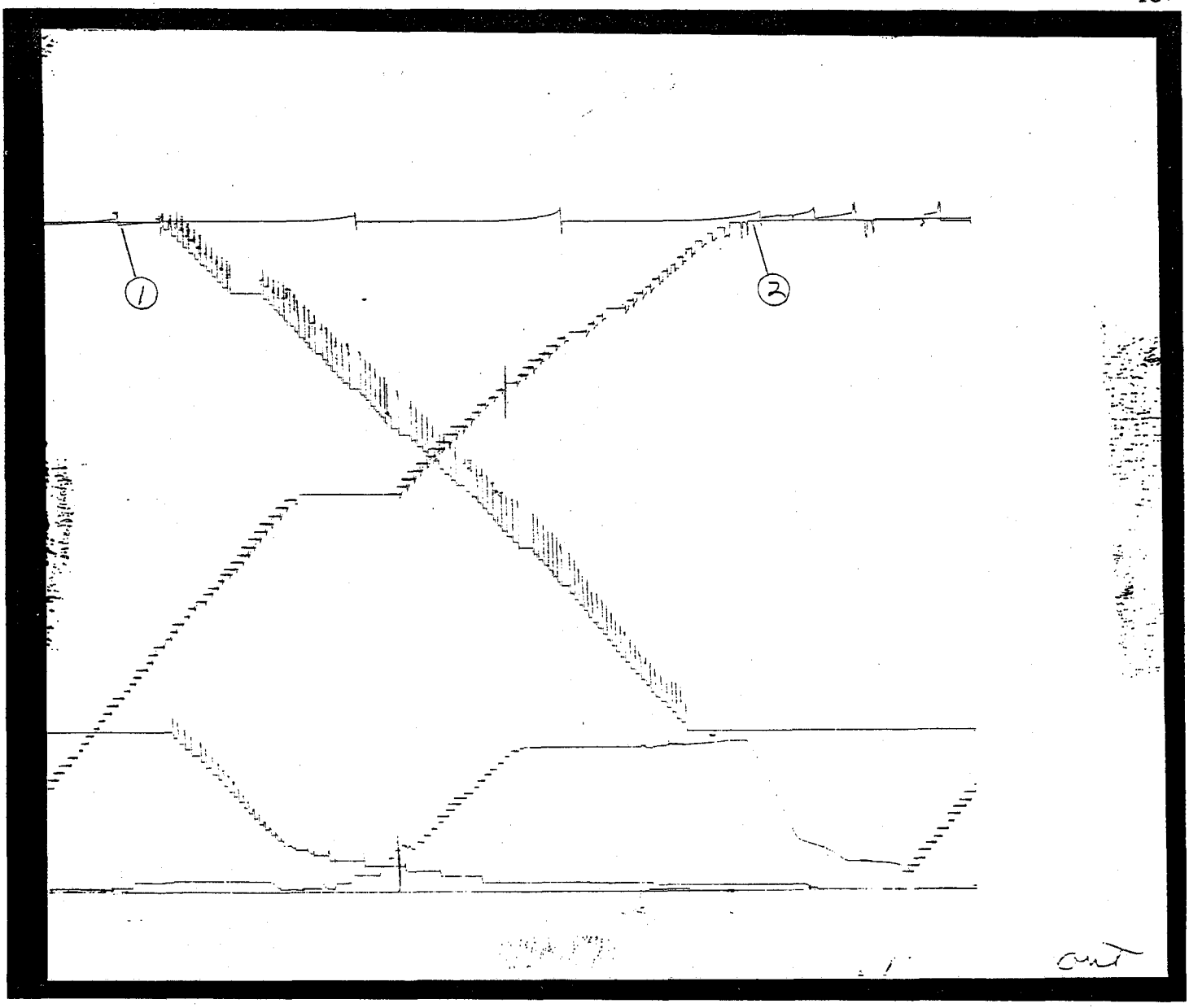
INSTRUMENT NUMBER	CAPACITY (P.S.I.)	DEPTH
J-510	6400#	11031
PORT OPENING	**BOTTOM HOLE TEMPERATURE**	**FIELD REPORT NUMBER**
OUTSIDE	176°F.	15519 D

DESCRIPTION	LABELED POINTS	PRESSURE (P.S.I.)	GIVEN TIME	COMPUTED TIME
INITIAL HYDROSTATIC MUD	1	5188.3		
INITIAL FLOW (1)				
INITIAL FLOW (2)				
INITIAL SHUT-IN				
SECOND FLOW (1)				
SECOND FLOW (2)				
SECOND SHUT-IN				
FINAL FLOW (1)				
FINAL FLOW (2)				
FINAL SHUT-IN				
FINAL HYDROSTATIC MUD	2	5199.5		

REMARKS:

UNSUCCESSFUL TEST.

18+



Deseret (Blue Ridge)

DATE	REMARKS
23 con't	DST #2 - times: 11-63-31-123 min. Rec in drill pipe - 2500; WC, 6503' sour water, 7500 ppm H_2S.
	Sampler 250 cc water, no pressure
	Bottom choke 15/16", top choke on open-closed chamber
	Top Chart : IHP 5150
	IO 1770-2763
	ISI 2763-4082
	FO 2851-4019
	FSI 4019-4082
	FH 5150
	Bottom Chart IHP 5114
	IO 2392-3068
	ISI 3068-4087
	FO 2993-4015
	FSI 4015-4087
	FH 5092
	MW 9, R_m = 8.2 @ 50 deg F, 2100 ppm Cl
	Recovery Top - R_w 7.8 @ 50 deg -- 18,000 ppm Cl
	Middle - R_w 7.8 @ 50 deg -- 21,000 ppm Cl
	Bottom - R_w 8.0 @ 50 deg -- 26,000 ppm Cl
	(Tool did not plug, charts look good, packers did not leak, good test).
	Now RIH to drill ahead at 11,060'.
1/24/80	Drilling 11,250', Cl 2-3 ppm, MW 8.8, Vis 52. 11060-180 - Dolo, black, microcrystalline to shaley, hard, dense, grades to dolomitic shale in part
	11180-dolomite, lt gray-tan, microcrystalline-crystalline, siliceous in part hd, dense
	Drlg break 11230-241 - 3-5 min/ft before and after, 1-2 min/ft during.
1/25/80	11,287', PBTD 2, drilling. progress 212' Phos. MW 8.8, Vis 52, WL 9.8, pH 10. 8.5 deg @ 11040, 8 deg @ 11287. Break 11230-11237. Circ smpls drill flourexence. No gas incr. BGG less than 1 unit. Fuel 29500

Amoco Production Company

SCOUT TICKET (Supplement)

SHEET ____ OF ____ SHEETS

STATE Utah COUNTY PARISH Morgen AREA FIELD Overthurst

SECTION Amoco 2 BLOCK TWP 6N SURVEY RANGE 5E

COMPANY Amoco Production

LEASE ~~Amoco WI~~ Deseret (Blue Ridge) WELL NO. #1

DATE	REMARKS
Add report for 14th	

1-14-80 1730 hrs: Ø 11,000 in black shale and shaley dolo. 20 min/ft. Gas went from 0 - 20 ppm C_1 @ 10870. Ø break 10980-988 went from 20 min/ft to 5 min/ft. Gas went from 20 to 30-40 ppm C_1. Still at 25 ppm C_1 @ 10,990-95. No heavies, C_1 only. Slight break above @ 10905-940. Need packer seat @ 10,900'.

9:15 AM Wednesday: 11,060' rig repair. 20-40 ppm C_1. MW 9.1, vis 73. In dolo, black, very shaley-micro-xln in part, mod hard-soft and grades to dolomitic shale, blocky soft.

Shows:

Depth	Show in PPM	Ø rate in min/ft
10995-11000	27	15-20
11005 - 11020	26	15
20 - 25	39	10
25 - 30	39	8
30 - 35	18	8
35 - 40	18	6
40 - 45	18	8
45 - 50	18	8
50 - 55	6	8
55 - 60	6	10

WILL DST THURSDAY AM

1/19/80	TD 11060, PBTD DST #1 Pyos MW 8.9 Vis 61 WL 8.9
	Circ for DST #1 TO X cut drlg. line. PU DST tools X TI. Run 2500 ft
	wtr X ammonia cushion. Set pkr at 10900 IO 10 min no flow. SI 60 min. 2nd
	open 60 min no flow. SI 160 min. loosing about 10 bbl/mudhr dn annulus.
	pkr released OK. Tripping out at 1600 hrs.
1/20/80	TD 11060 Changing out drilline MW 8.9 Vis 52 WL 8.9
	Tst DST #1 mis-run. TO X LD tst tools. TI to cond hole. rope became tangled
	in traveling block X threw slack in dead line. Weight indicator. Hit man in
	back X shoulder. WO helicopter X take man to hospital. Work blocks to
	floor X remove rope. Drlg. line flat in several places. 3 hr wo chopper
	3 hr changing out drlg. line
1/21/80	TD 11060, restring blocks
	restring block X found they had line crossed. unstring X restring blocks X
	crown
1/22/80	TD 11060 TO for DST #2 MW 9 Vis 62 WL 8.6
	restring blocks X TI circ @ 9650 X 11060. Wash 30 ft to btm. no fill circ
	X cond for DST #2 to for DST #2 21000 fuel
1/23/80	TD 11060 PBTD 2, DST #2 FSI Phos MW 8.9 Vis 48 WL 9.2
	Weekly well costs 129930. DST #2 closed chamber 2500 ft
	amonia cushion IO 1 min. 7.088 psi at end of period ISI 1 hr. Bled off
	press at surface FO 30 min 17.34 psi and of period FSI 2 hr. TO 10 stds out
	since report time

Form 998 2-71

Deseret WIU #1

DATE	REMARKS
cont 1st	Plugged dn at 9:45 p.m.. Cog wt 325000, set 50000 on btm cmt, both stages WOC 8 hrs. Set 50000 on cmt. Set csg slips w/225000 on slips ND. Cut csg off at 9:00 a.m. Starting to NU BOP
1/2/80	TD 9907, NU BOPs, Woodside & starting to tst BOPs w/yellow jacket @ noon.
1/3/79	TD 9907', PU DP GIH. Test 8000 psi. Hydrill 1500 psi ok. Install DP rubbers every jt. Circ btm up at 41000 mud.
1/4/80	9948', drilling, progress 41' Woodside. MW 8.9, Vis 65, WL 18.4, pH 11. PU DP & tag DV collar @ 8323. Drl collar. TI & tag cmt @ 9816. Drill 6' cmt, tst csg to 1500 psi, 15 min ok. Drill cmt shoe @ 9905. Drilling form to 9948
1/5/80	9975', running Bend log. Progress 27' Woodside. MW 8.8, Vis 60, WL 15.6, pH 10, survey 9.7 deg @ 9975. Drilling to 9975', circ. survey, POH. Motors went dn. Change fuel filters. T.O. Rig Schl to run Bond log. Run in hole tool failed. POH repair & GIH for Bond log.
1/6/80	9975', T.O. to pkr. progress 0, Woodside. MW 8.9, Vis 47, WL 16.4, pH 10. Cut drlg line. Change out Kelly valve. Repair Torque gauge. TI w/DCS & change orders. TO & wait on pkr. TI w/pkr to 9474'. T.I. w/wireling & perf 9515, 16 1/2 6 holes. TO x wireline. Set pkr @ 9560. Press to 1600. Bled to 1350 in 5 min & held. Set pkr @ 9440, press to 1500 psi. Bled to 1400 in 8 min & hold.
1/7/80	10059', drilling, progress 84' Woodside. T.O. & LD pkr, Pick up Teledrift & T.I. w/bit #35. Wash 60 ft to btm. BHA: Bit-Teledrift-2 6-3/4" DCS-IBS, 17 6-3/4 DCS-Jars-2 6-3/4 DCS-XO-665 ft. 1 unit BGG, Torque 1-1-1/2 rds. Drag 40-50 M. Fuel 26500 gal.
1/8/80	10207', PBTD 2, drilling. Progress 190' Woodside. MW 8.9, Vis 49, WL 15.6, pH 9.5. Drilling, tried twice for Teledrift survey, no good. Service rig, drill to 10207'. BGG less than 1 unit. Fuel24850. String wt 222000. Drag was 40 to 50000 over string wt. After mixing fine MICA drag down to 25000 to to 30000.
1/9/80	10352', PBTD 2, drilling, progress 145' Dinwoody. 8.9, Vis 54, WL 12.6, pH 10. MW 8.9, Vis 54, WL 12.6, pH 10, survey 10 deg @ 10177. Weekly cost 160,900. Drilling. circ for survey @ 10,177, 10 deg. Drilling. Ser rig, drilling to 10, 352. BGG less than 1 unit. Top Dinwoody @ 10, 300' Fuel on hand 23350 gal String wt 225000. Drag on conn up to 245000 @ times.
1/10/80	10420', PBTD 2, drilling, progress 50' Dinwoody. MW 9, Vis 61, WL 11.8, pH 10, survey 10 deg @ 10358'. Wash 90' to btm, Precaution. No fill pulling H05 in mud. RR 2 engines dn. Chg fuel filters. Less then 1 unit BGG. Ease rigging up. String wt 225M, fuel 21850 gal.
1/11/80	10570', PBTD 2, drilling, progress 168' Dinwdy. MW 8.8, Vis 45, WL 10.2, pH 9.5. Less than 1 unit BGG. Fuel 20350 gal.
1/12/80	TD 10639, PBTD - Trip out progress 69 Dnwdy. MW 8.9 Vis 50 WL 10 BGG less than 1 unit. Fuel 33300
1/13/80	TD 10678, drlg. progress 39 Dnwdy. MW 9 Vis 54 WL 10.4 BGG less than 1 unit, Fuel 31800
1/14/80	TD 10810 dlr,g progress BHA same Fuel 30300, tr gas 10707-712 break no show Phos. top 10680
1/15/80	TD 10869 TI, MW 9.1 Vis 65 WL 8.9 BGG-Tr. strap out no good, due to bad wind. Fuel 28800 gal.
1/16/80	TD 10,971', drilling. Trace - 6 ppm Cl. 24 ppm at 10,908-10. MW 9.0, Vis 66, Dolo, black, hard, dense, shaley, some dolo, lt gray, microcrystalline, hd, dense. Sample top Phosphoria - 10680
1/17/80	TD 11,060', Prep to DST #1 Friday, 10,900' - 11,060.

Amoco Production Company

SCOUT TICKET (Supplement)

SHEET ____ OF ____ SHEETS

STATE UTAH COUNTY PARISH MORGEN AREA FIELD OVERTHRUST

SECTION 2 BLOCK TWP 6N SURVEY RANGE 5E

COMPANY AMOCO PRODUCTION CO.

LEASE AMOCO WI DESERET (BLUE RIDGE) WELL NO. #1

DATE	REMARKS
12/18/79	9135, drilling progress 87, Thaynes. MW 9.2, Vis 45, WL 9.9. survey 7 deg @ 9062. Fuel 15500 gal. Background gas 9-30 ppm C.
12/19/79	9217', drilling progress 82, Thaynes, MW 9, Vis 55, WL 11.6. Fuel full. Back ground gas 27-127ppm C. Lith 9180-9200', 70% shale, 30% Dol
12/20/79	PD 9318', drilling, made 33' BGG 20-30 ppm C_1. MW 9+, Vis 34. Lith dol, med gray, Micro Xln, Shy in part grad to sh. Tr lm, lt gry-wh, earthy.
12/21/79	TD 9332;, Drlg, progress 32', Thaynes, Days:Spud 111. Drlg. Rig Repair fill up line. BHA bit BS 2DC IBS 10-DC jars 3-DC DCS are 5 1/2 in called 6ln.
12/22/79	TD 9408, Drlg, Progress 76, Thaynes, Days: spud 112, MW 9, Vis 44, WL 10.4 Ph 10. Drlg. Rig serv. Drlg. Rig repair torque gage x retary chains Drlg. Survey. Drlg. BGG 16 units.
12/23/79	TD 9522, Drlgm Progress 114, Thaynes, Dyas: SPUd 113. Mw. 9, Vis 69, WL 10.4. Drlg PU lower kelly safety valve. X serv rig. Drlg TI 9522. BGG 1 unit.
12/24/79	TD 9616, Dtlg, progress 94, Woodside, Days: Spud 114. MW9, Vis 54, WL 10.4, Ph 10. Drlg. Survey Misrun. Rerun. Drlg. rig serv. Drlg. BGG 1 unit Top woodside 9520.
12/25/79	TD 9701, Drlg, progress 85, Woodside, Days: Spud 115. ME 9, Vis 58, WL 10.6, PH 10. Drlg. Serv rig x Drlg. BGG less than 1 unit
12/26/79	TD 9752, drlg, progress 51, Weedside, Dyas: Spud 116, ME 9, Vis 54, WL 10.4, Ph 10. Drlg, TO 9707ft, Circ, Trip for bit. repair high chain in draworks. Wash 60 ft, to btm x drlg TO 9752ft. BGG les than 1 unit, Trip gas 1 unit.
12/27/79	TD 9900, Circ to log, progress 148, Woodside Days: Spud 117, MW 9, Vis, 61, WL 10.6 Ph 9. Drlg. 9900 circ for logs. BGG 1 unit.
12/28/79	TD 9907, Logging, progress 7, Woodisde, Days: Spud 118. MW 9, Vis 60, WL 10.2, P h 9.5. Strap 9907 correction log depth 9887. 1 dual lot FDC CHL.
12/29/79	TD 9907, circ to run csg, Woodside, MW 9, Vis 49, WL 11, Ph 10. Finish logging w/sch 9888 Loggers TD. TIH thaw kelly hose. Circ x cond to run csg.
12/30/79	TD 9907, Runs 9 5/8 csg, Woodside. Circ LS 78 jts. trip out std 75 std back in. LD BHA. Change rams pull wave ring up. 1200 hrs.
12/31/79	TD 9907, irc to run csg, Woodside. Run 9 5/8 1004 ft. Csg set on btm 9907 x stuck. No returns on last 34jts mix LCM pill x build vol. pmp same w/full returns circ btms up 800psi. Rig to cmt 1st stage 12 noon lost est 500 bbbls mud.
1/1/80	TD 9907', NU BOP, Woodside. Finish rig up BJ to cmt. Press tst lines to 3000 psi. Cmt as follows pmp 15 bbls wtr. 15 bbls mud flush. Pmp 15 bbls wtr, 500 sx class G cmt w/1/4# per sx of celloflakes. .5% retarder in a slurry of 102 bbls mix @ 10.5 BPM,pmp 783 bbls of mud to displace csg. Pmp 45 bbls over displacement mud, had air in it, did not bump plug Floats held dropped bomb, waited 1-½ hrs to press up open stage collar @ 1000 psi. Circ for 2 hrs full returns. Starting second stage pmp 10 bbls mud flush 10 bbls wtr & 530 sx of class G cmt w/.5% retarder, 1/4# per sx celloflake, pmp 642 bbls of displacement, 9 bbls over 9.5 BPM slowed to 4 BPM @ 750 psi. Press up to 2000 psi plugged dn,classed stage collar release,psi flow back 4 bbls full returns thru out job. (over)

Form 998 2-71

A DIVISION OF WPC, INC.

PETROLEUM ANALYTICAL LABORATORY SERVICE

P. O. BOX [redacted]52 * 24 HOUR PHONE 307/2[redacted]-1616 [redacted]
CASPER, WYOMING 82602

AIR MONITORING
COMPLETE GAS SERVICE
CONSULTING CHEMISTS
POLLUTION CONTROL
WATER ANALYSIS

SAMPLE NO. . . 2081

DATE RUN: 2/4/80

A SAMPLE OF: WATER FROM AMOCO PRODUCTION CO. *Phosphoria Formation*
SAMPLE FROM: EXETER 28 DESERET #1 MORGAN UTAH MIDDLE RECOVERY RIG FLOOR 1/22/80
AT: *Sec. 2-6N-5E* SECURED BY:.....
SAMPLING CONDITIONS:..... PRESS:..... TEMP:..... TIME:..... DATE:.....

WATER ANALYSIS

DISSOLVED SOLIDS

CATIONS	MG/L	ME/L
SODIUM (Actual)	*980*	
SODIUM-NA *Calculated*	12499.33	543.72
POTASSIUM-K	19	.49
CALCIUM-CA	0	0
MAGNESIUM-MG	5.74	.47
BARIUM-BA	0	0
TOTAL CATIONS	12524.07	544.68

ANIONS		
CHLORIDE-CL	620	17.48
SULFATE-SO4	1875	39
CARBONATE-CO3	0	0
BICARBONATE-HCO3	29768	488.2
TOTAL ANIONS	32263	544.68

TOTAL DISSOLVED SOLIDS(CALC.) 44787.07

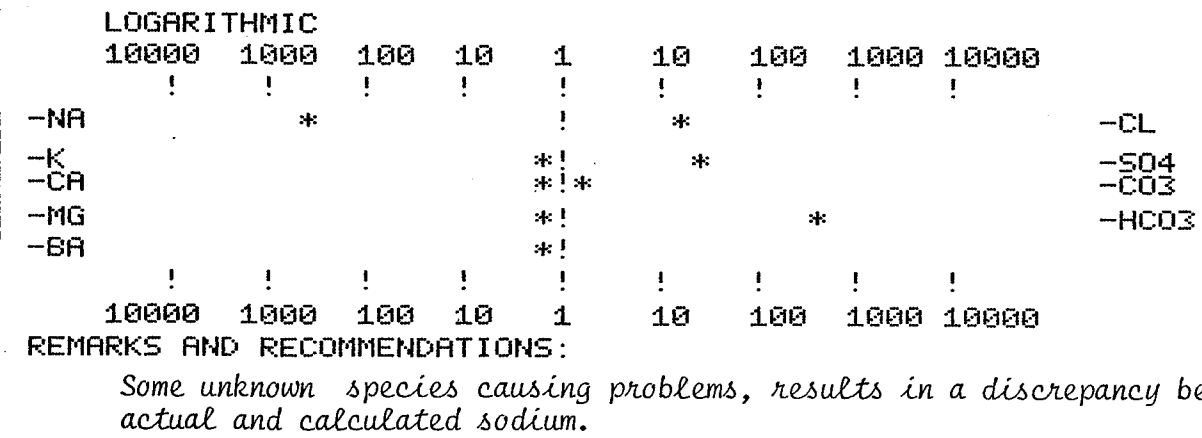
OTHER PROPERTIES

PH 7.7
RESISTIVITY(OHM-METERS), 77 F .11

IRON-FE (TOTAL) 0
SULFIDE AS H2S 0

RECEIVED
MAR 21 1980
DIVISION OF
OIL, GAS & MINING

WATER PATTERNS--ME/L



REMARKS AND RECOMMENDATIONS:

Some unknown species causing problems, results in a discrepancy between actual and calculated sodium.

COPIES TO:

ANALYSIS BY: E. M. Hauck

MD GL

WPC INC.
PALS Petroleum Analytical Laboratory Service
P. O. BOX 2652
Casper, Wyoming 82602
24-HR. PHONE (307) 266-1616

API FORM 45-1

API WATER ANALYSIS REPORT FORM

Date Recd. 2-4-80			
Company: Amoco Production	Exeter #30	Sample No.: 2082	Date Sampled: 2-22-80
Field: Sec. 2-6N-5E	Legal Description: Morgan	County or Parish: Morgan	State: Utah
Lease or Unit	Well: Deseret #1	Depth: 10900-11060	Formation: Phosphoria
Water, B/D			
Type of Water (Produced, Supply, etc.): Top Recovery	Sampling Point: Rig Floor DST #2	Sampled By	

DISSOLVED SOLIDS

CATIONS	mg/l	me/l
Sodium, Na (calc.)	690	30.0
Calcium, Ca	400	20.0
Magnesium, Mg	100	8.2
Barium, Ba		
Potassium, K	16	0.41

ANIONS		
Chloride, Cl	60	1.7
Sulfate, SO_4	980	20.4
Carbonate, CO_3	0	0
Bicarbonate, HCO_3	0	0
Unknown anion		6.5

Total Dissolved Solids (calc.) 2246

Iron, Fe (total) _____

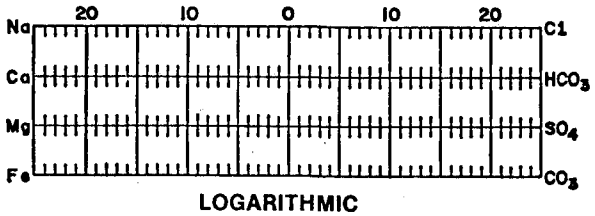
Sulfide, as H_2S _____

OTHER PROPERTIES

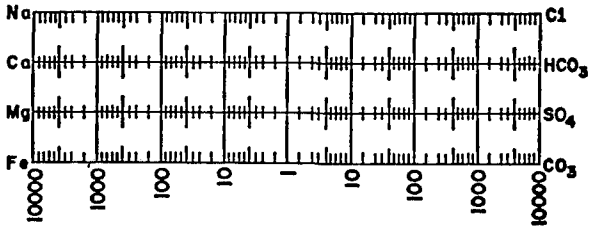
pH	4.5
Specific Gravity, 60/60 F.	
Resistivity (ohm-meters) 77°F.	1.20
Total Hardness, as $CaCO_3$ mg/l	
Total Alkalinity, as $CaCO_3$ mg/l	
Supersaturation, as $CaCO_3$ mg/l	

WATER PATTERNS — me/l

STANDARD



LOGARITHMIC



REMARKS & RECOMMENDATIONS:

There is apparently an anion other than those we have anlayzed the sample for. A Check on the Nitrate, NO_3, content indicates 26.4 mg/l.

COPIES TO: _____

E. M. Hand
ANALYSIS BY:

A DIVISION OF WPC, INC.

PETROLEUM ANALYTICAL LABORATORY SERVICE

P. O. BOX [redacted]652 * 24 HOUR PHONE 307/2[redacted]-1616
[redacted]CASPER, WYOMING 82602[redacted]

AIR MONITORING
COMPLETE GAS SERVICE
CONSULTING CHEMISTS
POLLUTION CONTROL
WATER ANALYSIS

SAMPLE NO. . . 2080

DATE RUN: 2/4/80

A SAMPLE OF: WATER FROM AMOCO PRODUCTION CO.
SAMPLE FROM: EXETER 28 DESERET #1 MORGAN UTAH SAMPLE CHAMBER FLARE LINE 1/22/80
AT: Sec. 2N-5E Phosphoria ?Formation ..... SECURED BY:.....
SAMPLING CONDITIONS:..... PRESS:..... TEMP:..... TIME:..... DATE:.....

WATER ANALYSIS

DISSOLVED SOLIDS

CATIONS	MG/L	ME/L
SODIUM-NA	4134.27	179.84
POTASSIUM-K	103	2.64
CALCIUM-CA	316.24	15.78
MAGNESIUM-MG	60.27	4.95
BARIUM-BA	0	0
TOTAL CATIONS	4613.78	203.21

ANIONS		
CHLORIDE-CL	3250	91.65
SULFATE-SO4	4950	102.96
CARBONATE-CO3	24	.8
BICARBONATE-HCO3	475.8	7.8
TOTAL ANIONS	8699.8	203.21

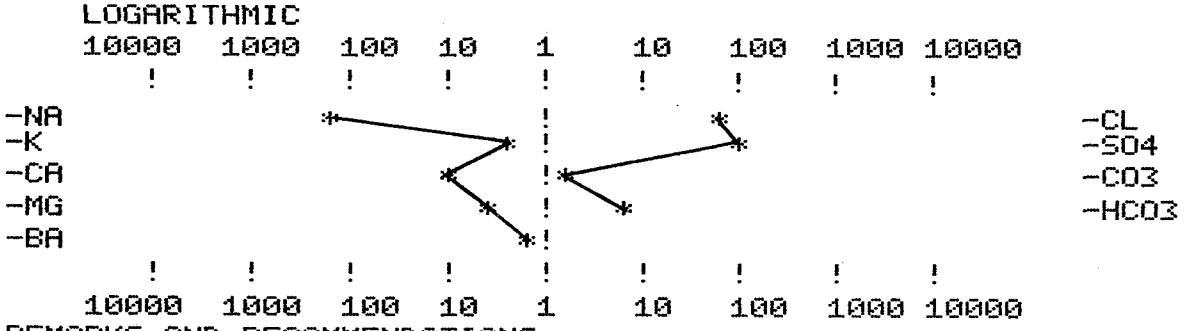
TOTAL DISSOLVED SOLIDS(CALC.) 13313.58

OTHER PROPERTIES

PH 8.4
RESISTIVITY(OHM-METERS), 77 F .54

IRON-FE (TOTAL) 0
SULFIDE AS H2S 0

WATER PATTERNS--ME/L



REMARKS AND RECOMMENDATIONS:

COPIES TO:

ANALYSIS BY: E. M. Hauck

MD GL

A DIVISION OF WPC, INC.

PETROLEUM ANALYTICAL LABORATORY SERVICE

P. O. BOX [redacted]652 * 24 HOUR PHONE 307/2[redacted]-1616
CASPER, WYOMING 82602

AIR MONITORING
COMPLETE GAS SERVICE
CONSULTING CHEMISTS
POLLUTION CONTROL
WATER ANALYSIS

SAMPLE NO. . . 2083

DATE RUN: 2/4/80

A SAMPLE OF: WATER FROM AMOCO PRODUCTION CO.
SAMPLE FROM: EXETER #28 DESERET #1 MORGAN CO. UTAH BOTTOM FLARE LINE DST #2
AT: Sec. 2-6N-5E Phosphoria Formation SECURED BY:.....
SAMPLING CONDITIONS:..... PRESS:..... TEMP:..... TIME:..... DATE:.....

WATER ANALYSIS

DISSOLVED SOLIDS

CATIONS	MG/L	ME/L
SODIUM-NA	4272.26	185.84
POTASSIUM-K	100	2.56
CALCIUM-CA	94.4	4.71
MAGNESIUM-MG	48.79	4.01
BARIUM-BA	0	0
TOTAL CATIONS	4515.45	197.12

ANIONS

CHLORIDE-CL	3200	90.24
SULFATE-SO4	4600	95.68
CARBONATE-CO3	0	0
BICARBONATE-HCO3	683.2	11.2
TOTAL ANIONS	8483.2	197.12

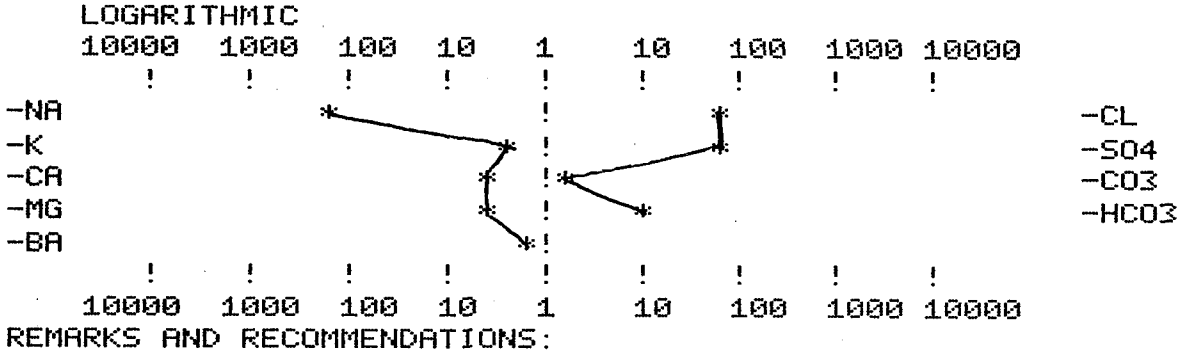
TOTAL DISSOLVED SOLIDS(CALC.) 12998.65

OTHER PROPERTIES

PH 7.4
RESISTIVITY(OHM-METERS), 77 F .49

IRON-FE (TOTAL) 0
SULFIDE AS H2S 0

WATER PATTERNS--ME/L



REMARKS AND RECOMMENDATIONS:

COPIES TO:

ANALYSIS BY: E. M. Hauck

GL MD

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: Amoco Production Company

3. ADDRESS OF OPERATOR: P.O. Box 17675, Salt Lake City, UT 84117

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 792.1 FWL & 2467.3 FSL NW/4 SW/4 Sec. 2

5. LEASE DESIGNATION AND SERIAL NO.: Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Deseret WI Unit

9. WELL NO.: 1

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 2 T6N, R5E

12. COUNTY OR PARISH: Morgan

13. STATE: Utah

14. PERMIT NO.: 43-029-30009

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 7798 ungraded

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) Status			[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.)*

Status of said well as of 4-21-80 is as follows:

See Attachment

RECEIVED
MAY 5 1980
DIVISION OF
OIL, GAS & MINING

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

SIGNED [signature] TITLE District Administrative Supervisor DATE 4-29-80

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

ATTACHMENT TO FORM OGC-1b.

Deseret WI Unit No. 1

Spud Date: 9-1-79

Casing:

Size	Weight, lb./ft.	Depth	Cement
20"	conductor	41'	
13 3/8"	54.5#	2101.09'	1850 sx
9 5/8"	40#	9907'	500 sx

Logs:

Sonic-GR, Dipmeter, DIL, DLL, Velocity, CNL-FDC, Directional, CBL

Perforations: ✓

9515' 6 JSPF

DST

#1	Misrun	
#2	10900-11060	Recovered 9,003' fluid. IHP 5150, IOP 1770-2763, ISIP 2763-4082, FOP 2851-4019, FSIP 4019-4082, FHP 5150.
#3	13240-13380	Recovered 11549'liquid, water cushion 3000', formation liquid 8549' IHP 6211, IOP 2133-4273, ISIP 4273-5704, FOP 4329-5067, FSIP 5067-5704, FHP 6285

Form OGC-1b

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

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

dr

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 [XX] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: Amoco Production Company

3. ADDRESS OF OPERATOR: P.O. Box 17675, Salt Lake City, UT 84117

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: NW/4 SW/4 Sec. 2 792.1' FWL & 2467.3' FSL

5. LEASE DESIGNATION AND SERIAL NO.: Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Deseret WI Unit

9. WELL NO.: #1

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 2, T6N, R5E

12. COUNTY OR PARISH: Morgan

13. STATE: Utah

14. PERMIT NO.: 43-029-30009

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 7798' ungraded

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) Suspension			[XX]
(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 subject well was suspended on 6-10-80 in the following manner:

T.D. 17,500'

Casing:
20" conductor set at 41'
13 3/8" casing set at 2101'
9 5/8" casing set at 9907'
7" liner set from 9394'-14025'

Formation Tops:

Twin Creek	450'	Phosphoria	10680'
Nugget	3930'	Weber	11260'
Ankareh	5660'	Madison	13240'
Thaynes	7200'	Darby	14810'
Woodside	9515'	Bighorn	15340'
Dinwoody	10300'		

Plugs:
Set 40 sx plug at 17500'-17300' to seal bottom hole.
Set 40 sx plug at 15300'-15100' to seal bighorn
Set 40 sx plug at 14125'-13925' to seal 1/2 in and 1/2 out of 7" liner
Set 60 sx plug at 9150'-9000' to seal liner top
Set 25 sx plug at 150'-100' to seal surface
Install blind flange on 12"x10" spool
Waiting on larger rig.

Verbal approval received by Jeff Kewin from Cleon Feight of Utah OGCC on 6-9-80.

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

SIGNED D.D. Davidson TITLE Dist. Admin. Supervisor DATE 6-11-80

(This space for Federal or State office use)

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

RECEIVED
JUN 16 1980
DIVISION OF
OIL, GAS & MINING

*See Instructions on Reverse Side

September 18, 1980

Amoco ProductionCompany
P.O. Box 17675
Salt Lake City, Utah 84117

RE: WEll No. Deseret W.I. Unit #1
Sec. 2, T. 6N, R. 5E.,
Morgan, Utah

Gentlemen:

This letter is to advise you that the Well Completion or Recompletion Report and Log for the above mentioned well is due and has not been filed with this office as required by our rules and regulations.

Please complete the enclosed Form OGC-3, in duplicate, and forward them to this office as soon as possible.

Thank you for your coopoeration relative to the above.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

Barbara Hill

BARBARA HILL
CLERK-TYPIST

bjh/
Enclosures: Forms

Form OGC-3

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

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

STATE

12

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

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

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

2. NAME OF OPERATOR: Amoco Production Company

3. ADDRESS OF OPERATOR: p.o. Box 17675 Salt Lake City, UT 84117

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: NW/4 SW/4 Sec. 2, 792.1' FWL & 2467.3' FSL
At top prod. interval reported below
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: Deseret WI Unit
9. WELL NO.: 1
10. FIELD AND POOL, OR WILDCAT: Wildcat
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 2, T6N-R5E

14. PERMIT NO.: 43-029-30009 DATE ISSUED: 10-3-79
12. COUNTY OR PARISH: Morgan
13. STATE: Utah

15. DATE SPUDDED: 9-1-79
16. DATE T.D. REACHED: 6-11-80
17. DATE COMPL. (*Ready to prod.*): 6-11-80 Suspended
18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*: 7798' GR
19. ELEV. CASINGHEAD:
20. TOTAL DEPTH, MD & TVD: 17500'
21. PLUG, BACK T.D., MD & TVD: 12000'
22. IF MULTIPLE COMPL., HOW MANY*:
23. INTERVALS DRILLED BY: → ROTARY TOOLS: Surface-TD CABLE TOOLS:

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*:
25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: Sonic, CNL-FDC, Dipmeter, DIL-SFL, CNL-FDC, BHC-Sonic, DLL-MSFL, FIL
27. WAS WELL CORED: No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
20"		41'		Driven	
13 3/8"	54.5#	2101'	17½"	2350 sx	
9 5/8"	43.5 & 40 #	9907'	12¼"	1030 sx	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
7"		14025'	1100 sx	

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

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

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.* PRODUCTION

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

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

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

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*):
TEST WITNESSED BY:

35. LIST OF ATTACHMENTS:

RECEIVED SEP 26 1980 DIVISION OF OIL, GAS & MINING

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

SIGNED E. R. Nicholson TITLE Administrative Supervisor DATE 9-24-80

*(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.
Well temporarily plugged per Sundry Notice dated 6-11-80			

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
Twin Creek	450'	
Nugget	3930'	
Ankareh	5660'	
Thaynes	7200'	
Woodside	9515'	
Dinwoody	10300'	
Phosphoria	10680'	
Weber	11260'	
Madison	13240'	
Darby	14810'	
Bighorn	15340'	

STATE OF UTAH
NATURAL RESOURCES & ENERGY
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

April 22, 1983

Amoco Production Company
P. O. Box 17675
Salt Lake City, Utah 84117

Re: Well No. Deseret W. I. Unit # 1
Sec. 2, T. 6N, R. 5E.
Morgan County, Utah

Well No. State of Utah "S" # 1
Sec. 30, T. 3N, R. 7E.
Summit County, Utah

Gentlemen:

The above referred to wells have been currently under a temporarily abandoned status for six months or longer. Would you be kind enough to inform this office of a change in status, or let us know if they are still temporarily abandoned, submitted on a Sundry Notice (Form OGC-1B, enclosed).

Thank you for your prompt attention to the above submittal.

Respectfully,

DIVISION OF OIL, GAS AND MINING

Cari Furse

Cari Furse
Well Records Specialist

CF/cf
Enclosure

Board/Charles R. Henderson, Chairman • John L. Bell • E. Steele McIntyre • Edward T. Beck
Robert R. Norman • Margaret R. Bird • Herm Olsen

an equal opportunity employer • please recycle paper

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: AMOCO PRODUCTION COMPANY

3. ADDRESS OF OPERATOR: P. O. Box 17675 - Salt Lake City, Utah 84117

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 792.1' FWL and 2467.3' FSL

5. LEASE DESIGNATION AND SERIAL NO.: FEE

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Deseret WI Unit

9. WELL NO.: #1

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 2, T6N, R5E

12. COUNTY OR PARISH: Morgan

13. STATE: Utah

14. PERMIT NO.: 43-029-30009

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 7798'

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) Suspension			[XX]
(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.)*

In response to your inquiry of April 22, 1983, please be informed that the subject well continues to be suspended.

RECEIVED
MAY 10 1983
DIV. OF OIL, GAS & MINING

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

SIGNED L. L. Smith / JKF TITLE Staff Admin. Analyst (SG) DATE

(This space for Federal or State office use)

APPROVED BY TITLE DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

ORAL APPROVAL TO PLUG AND ABANDON WELL

Operator _____ Representative _____

Well No. _____ Location ___ ¼ ___ ¼ Section _____ Township _____ Range _____

County _____ Field _____ State _____

Unit Name and
Required Depth _____ Base of fresh water sands _____

T.D. _____ Size hole and Fill per sack ____ " ____ ' Mud Weight and Top _____ #/gal. _____ ' _____

Casing Size	Set At	Top of Cement	To Be Pulled	Plugging Requirements From	To	Sacks Cement

Formation	Top	Base	Shows

Temporarily Abandon prep to complete
P&A 10/26/83

REMARKS

DST's, lost circulation zones, water zones, etc., _____

Approved by _____ Date _____ Time _____ a.m. p.m.

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: Amoco Production Company

3. ADDRESS OF OPERATOR: P. O. Box 829, Evanston, WY 82930

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: SW/4 SW/4 Sec. 2 792.1' FWL 2467.3' FSL

5. LEASE DESIGNATION AND SERIAL NO.: FEE

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Deseret WI Unit

9. WELL NO.: #1

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 2, T6N, R5E

14. PERMIT NO.: 43-029-30009

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 7798' Ungraded

12. COUNTY OR PARISH: Morgan

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) Temporary Setback of P&A			[X]
(Other)			[ ]	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

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

Because of the inclement weather our plans to plug and abandon and reclaim the above described well will be postponed until spring of 1984.'

RECEIVED
DEC - 8 1983
DIV. OF OIL, GAS & MINING

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

SIGNED R. J. Uhlar TITLE St. Administrative Analyst (SC) DATE 12-6-83

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Form OGC-1b

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

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

2/2

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.)

RECEIVED
JUL 19 1984
DIVISION OF OIL GAS & MINING

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

2. NAME OF OPERATOR: Amoco Production Company

3. ADDRESS OF OPERATOR: P.O. Box 829 Evanston, Wyoming 82930

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface: SW/4 SW/4 Sec 2 792.1' FWL & 2467.3' FSL

5. LEASE DESIGNATION AND SERIAL NO.: Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Deseret WI Unit

9. WELL NO.: #1

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 2, T6N, R5E

14. PERMIT NO.: 43-029-30009

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 7798' Ungraded

12. COUNTY OR PARISH: Morgan

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) P & A			[X]
(Other)			[ ]	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

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

Cement plugs were placed in the well in 1980 at the intervals indicated below, per approval of Cleon Feight of the Utah Oil & Gas Commission. Ron Firth approved a final P & A request in October, 1983 per a conversation with Don Mustard of Amoco Production Company. A surface plug and below ground dry-hole marker were added to the well.

Formation Tops		Cement Plugs	
Twin Creek	450'	surface	10 sacks
Nugget	3930'	100'-150'	25 sacks
Ankareh	5660'	9000'-9150'	60 sacks
Thaynes	7200'	13925'-14125'	40 sacks
Woodside	9515'	15100'-15200'	40 sacks
Dinwoody	10300'	17300'-17500'	40 sacks
Phosphoria	10680'		
Weber	11260'		
Madison	13240'		
Darby	14810'		
Bighorn	15340'		

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

SIGNED M. Morris TITLE Staff Drilling Eng. DATE 7/18/84

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

1983

Amoco Production Company

RECEIVED

AUG 1 1984

DIVISION OF OIL GAS & MINING

July 30, 1984

Utah Division of Oil Gas & Mining
4241 State Office Building
Salt Lake City, Utah 84114

Attn: Pam Kanna

File: JEK-951/WF

Re: Alva P. Murdock, Deseret WL #1, State of Utah "S" #1 and the Gillmore #1 Wells

6N 5E 2

Ms. Kanna:

In regards to the above referenced wells, they were all drilled, P & A'd and completed as dry holes. There was no production of any kind on any of these wells.

If you have any questions in the future in regards to production will you please direct your correspondence to our Production and Revenue Supervisor in writing.

Louis F. Lozzie
Administrative Supervisor

KG/