Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: U-18428

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NA

7. UNIT AGREEMENT NAME: NA

8. FARM OR LEASE NAME: RIC/Tesoro Federal

9. WELL NO.: 2-11

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 11, T38S, R21E

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

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

2. NAME OF OPERATOR: Resources Investment Corporation

3. ADDRESS OF OPERATOR: 555-17th Street Suite 3500 Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: ~~660'~~ 1300' FSL and ~~1982'~~ 2400' FWL (SE SW)
At proposed prod. zone: same as above

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: Approximately 11 miles southwest of Blanding, Utah

12. COUNTY OR PARISH: San Juan

13. STATE: Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 800

16. NO. OF ACRES IN LEASE: 800

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

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

19. PROPOSED DEPTH: 6600'

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 5556' GR

22. APPROX. DATE WORK WILL START*: Spring, 1982

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12¼"	9-5/8"	24#	500'	235 Sacks
7-7/8"	5½"	15.5#	6600'	To be determined from logs

Operator proposes to test the Desert Creek formation for hydrocarbons at approximately 6430 feet. If productive, production casing will be set and cemented and a completion attempted. If non-productive, the hole will be plugged and abandoned in a prudent manner consistent with Federal and State regulations.

See attached NTL-6 for program specifics.

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 [signature] TITLE Northern District Drilling & Prod. Manager DATE November 30, 1981

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY [signature] for TITLE E. W. Guynn District Oil & Gas Supervisor DATE FEB 19 1982

CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

NOTICE OF APPROVAL

*See Instructions On Reverse Side

FLARING OR VENTING OF GAS IS SUBJECT TO NTL 4-A DATED 1/1/80

State O & G.

Identification No. 082-82

United States Department of the Interior
Geological Survey
2000 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104

NEPA CATEGORICAL EXCLUSION REVIEW

PROJECT IDENTIFICATION

Operator Resources Investment Corporation

Project Type single zone explorational oil well

Project Location 1300' FSL/2400' FWL, sec. 11, T. 38S., R. 21E., San Juan County, Utah

Well No. 2-11 RIC/Tesoro Federal Lease No. U-18428

Date Project Submitted 12-9-81

FIELD INSPECTION Date November 12, 1981

Field Inspection Participants

David J. Farve/Teresa Ackley - Resources Investment

Niel Edwards - surveyor, NCE Surveys

Pat Hardin - archaeologist, La Plata Archaeological Consultants

Benny Benfield - Atchison Construction

Brian Wood/Opal Reddraw/Bernie Kroeger - Bureau of Land Management

Terry Galloway - U.S. Geological Survey

I have reviewed the proposal in accordance with the categorical exclusion review guidelines. This proposal would not involve any significant effects and, therefore, does not represent an exception to the categorical exclusions.

December 22, 1981
Date Prepared

Donald Englishman
Environmental Scientist

I concur

JAN 21 1982
Date

W. Martin FOR E. W. GUYNN
DISTRICT OIL & GAS SUPERVISOR
District Supervisor

CATEGORICAL EXCLUSION REVIEW INFORMATION SOURCE

Criteria 516 DM 2.3.A	Federal/State Agency: Correspondence (date)	Federal/State Agency: Phone check (date)	Federal/State Agency: Meeting (date)	Local and private correspondence (date)	Previous NEPA	Other studies and reports	Staff expertise	Onsite inspection (date)	Other
1. Public health and safety						✓4	✓		
2. Unique characteristics							✓		
3. Environmentally controversial							✓		
4. Uncertain and unknown risks							✓		
5. Establishes precedents							✓		
6. Cumulatively significant							✓		
7. National Register historic places	✓1 1-13-82								
8. Endangered/ threatened species	✓1 1-13-82								
9. Violate Federal, State, local, tribal law						✓4	✓		

CATEGORICAL EXCLUSION REVIEW COMMON REFERENCE LEGEND

1. Surface Management Agency Input
2. Reviews Reports, or information received from Geological Survey (Conservation Division, Geological Division, Water Resource Division, Topographic Division)
3. Lease Stipulations/Terms
4. Application for Permit to Drill
5. Operator Correspondence
6. Field Observation
7. Private Rehabilitation Agreement

Remarks:

Location changed from [660'FSL/1982'FWL (SESW)] at onsite-inspection to [1,300'FSL/2400'FWL (SESW)] at a later date due to a change in geologic target. As terrain in new location is similar to original site (all flat mesa top), and less new access road needs constructing, another onsite inspection was waived by both USGS and BLM.

Date _____ EA No. 082-82

CER/EA Pre-Drill Environmental Evaluation

Inspection date(s): November 12, 1981

Project Location: Resources Investment Corporation / 2-11 RIC/Tesoro Federal
(operator) (well no.)
1300 'FSL, 2400 'FWL, SESW (1/4 1/4)
Sec. 11, T. 38S, R. 21E, San Juan County, Utah

Environmental Criteria

1. Public health and safety:

Impacts to local environment by rig/equipment - NONE

Impacts by environment to rig/equipment - NONE

Safety hazards - NONE

Misc. impacts - NONE

Determination - (negligible/adverse effect)

Effect: (Significance)

Alternatives -

2. Unique characteristics:

Wilderness Study Area? No X Yes ____ (Number) ____

Historic or Cultural Resources? No X Yes ____ (arch. report) ____

Park, Recreation, and/or Refuge? No X Yes ____ (describe) ____

Wild and Scenic Rivers? No X Yes ____ (Identify) ____

Sole or Principal Drinking Water Aquifers? No X Yes ____ (ME report)

Prime Farmlands? No X Yes ____ (Describe, D of A report) ____

Wetlands, Floodplains? No X Yes ____ (10, 50, 100/yr? ____, Corp of Engineers 404 permit? ____ WRC quidelines)

Ecologically Significant/Critical Areas? No X Yes ____ (i.e. winter range, strutting, spawning, breeding, fawning grounds?; range study area?; Nat'l Register of Historic Landmarks?; visual resource area?)

Other -

Determination - (negligible/adverse effect)

Alternatives -

3. Environmentally Controversial:
Source of controversy - NONE

Issues -

Facts -

Alternatives -

Decisions (if any) -

4. Uncertain and Unknown Risks: (Refer to APD, ME)
H2S potential - (ME report, well histories) NONE
High pressures - NONE
Landslides/slumps - NONE

Unstable soils - (soil surveys) NONE

Severe topography - (slope %, % side slopes, rim rock, etc) NONE
Flash flood hazard - NONE

Lost circulation potential - (history of wells in area, peculiar geologic features, ie, shear zones) NONE
Potential fresh water aquifers - (ME report, extension of surface casing, use of intermediate casing, protection requirements)

Zones of other mineral deposits - (ME report, protection requirements - NONE
Buried pipelines, water lines, cable - NO

Overhead power/telephone lines - NO

Irrigation channel(s) - NO

Determination - (negligible/adverse effect)
Alternatives -

5. Establishes precedent:
Nature of precendent - (ie, first well drilled in Nat'l Recreation Area, significance, effects) NO

Determination - (negligible/adverse effect)
Alternatives -

6. Cumulatively significant:
Will the addition of this one well and access route when weighed against all currently existing environmental conditions, be cumulatively significant enough to be considered as constituting a major federal action? No X Yes ____
Determination - negligible
Significance -
Alternatives -

7. Adversely affects properties listed or eligible for listing in the national register of historic places: No X Yes ___ arch report ___
Determination: negligible

Significance: ___

Alternatives: ___

8. Affect a species listed or proposed to be listed on the List of Endangered or Threatened Species: no
Effect: ___
Determination: (negligible/adverse effect) ___

Signficance: ___

Alternatives: ___

9. Threaten to violate a Federal, State, local or tribal law or requirements imposed for the pretection of the environment or which require compliance with Executive Order 11988 (Floodplains Management), Executive Order 11990 (Protection of Wetlands), or the Fish and Wildlife Coordination Act: No
Effect: ___
Determination: (negligible/adverse effect) ___

Significance: ___

Site - specific stipulations (Mitigating measures designed to reduce/eliminate adverse environmental effects) ___
See BLM Stipulations

EA Determination: No ___ Yes X

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 [X] OTHER

2. NAME OF OPERATOR: Resources Investment Corporation

3. ADDRESS OF OPERATOR: 555 17th St. - 3500 Anaconda Tower

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 660' FSL & 1982' FWL (SE SW)

5. LEASE DESIGNATION AND SERIAL NO.: U-18428

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A

7. UNIT AGREEMENT NAME: N/A

8. FARM OR LEASE NAME: RIC/Tesoro Federal

9. WELL NO.: 2-11

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Section 11-T38S-R21E

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5556' 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*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other) Changing of Well Name			[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.)*

Please note the change of well name from :

BLACK MESA FEDERAL #2-11

to the

RIC/TESORO FEDERAL #2-11

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

SIGNED [signature] TITLE District Engineer DATE December 4, 1981

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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 Form 9-331-C for such proposals.)

1. oil well [X] gas well [X] other

2. NAME OF OPERATOR
Resources Investment Corporation

3. ADDRESS OF OPERATOR
555 17th St. - 3500 Anaconda Tower

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 660' FSL & 1982' FWL (SE SW)
AT TOP PROD. INTERVAL: As Above
AT TOTAL DEPTH: As Above

5. LEASE
U-18428

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
N/A

7. UNIT AGREEMENT NAME
N/A

8. FARM OR LEASE NAME
RIC/Tesoro Federal

9. WELL NO.
2-11

10. FIELD OR WILDCAT NAME
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 11-T38S-R21E

12. COUNTY OR PARISH: San Juan
13. STATE: Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
5556' GR

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	☐	☐
FRACTURE TREAT	☐	☐
SHOOT OR ACIDIZE	☐	☐
REPAIR WELL	☐	☐
PULL OR ALTER CASING	☐	☐
MULTIPLE COMPLETE	☐	☐
CHANGE ZONES	☐	☐
ABANDON*	☐	☐
(other) Changing of Well Name		X

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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.)*

Please note the change of well name from:

BLACK MESA FEDERAL #2-11

to the

RIC/TESORO FEDERAL #2-11

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED [signature] TITLE District Engineer DATE December 4, 1981

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

RIC

Resources Investment Corporation

Subsidiary of Energy Management Corporation

3500 Anaconda Tower/555 Seventeenth Street/Denver, Colorado 80202/Telephone 303 825-3328

RECEIVED
DEC 10 1981
DIVISION OF
OIL, GAS & MINING

December 7, 1981

State of Utah
Oil, Gas & Mining, Division
1588 West, North Temple
Salt Lake City, Utah 84116

Re: RIC/Tesoro Federal #1-11/2-11
Section 11-T38S-T21E
San Juan Co., Utah

Gentlemen:

Enclosed please find the original and two copies of the Application for Permit to Drill, Location Plat, and Sundry Notice denoting the change of well name from the Black Mesa Federal #1-11/2-11 to the RIC/Tesoro Federal #1-11/2-11 on the above subject wells.

If you have any questions, please do not hesitate to contact me at the letterhead address.

Sincerely yours,

RESOURCES INVESTMENT CORPORATION

T.L. Hoffman

T.L. Hoffman
Operations Secretary

tlh
Enclosure

cc: Marv W. Isaacson
Dan W. Hall
WF/WIO's
RF

Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

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

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

. NAME OF OPERATOR: Resources Investment Corporation

. ADDRESS OF OPERATOR: 555-17th Street Suite 3500 Denver, Colorado 80202

. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 660' FSL and 1982' FWL (SE SW)
At proposed prod. zone: same as above

4. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: Approximately 11 miles southwest of Blanding, Utah

5. LEASE DESIGNATION AND SERIAL NO.: U-18428
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NA
7. UNIT AGREEMENT NAME: NA
8. FARM OR LEASE NAME: RIC/Tesoro Federal
9. WELL NO.: 2-11
10. FIELD AND POOL, OR WILDCAT: Wildcat
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 11, T38S, R21E
12. COUNTY OR PARISH: San Juan
13. STATE: Utah

5. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 800
16. NO. OF ACRES IN LEASE: 800
17. NO. OF ACRES ASSIGNED TO THIS WELL: 40
8. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.:
19. PROPOSED DEPTH: 6600' Desert Creek
20. ROTARY OR CABLE TOOLS: Rotary
1. ELEVATIONS (Show whether DF, RT, GR, etc.): 5556' GR
22. APPROX. DATE WORK WILL START*: Spring, 1982

3. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12¼"	9-5/8"	24#	500'	235 Sacks
7-7/8"	5½"	15.5#	6600'	To be determined from logs

RECEIVED
DEC 10 1981
DIVISION OF OIL, GAS & MINING

Operator proposes to test the Desert Creek formation for hydrocarbons at approximately 6430 feet. If productive, production casing will be set and cemented and a completion attempted. If non-productive, the hole will be plugged and abandoned in a prudent manner consistent with Federal and State regulations.

See attached NTL-6 for program specifics.

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 2/22/82
BY: [signature]

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.

4. SIGNED [signature] TITLE Northern District Drilling & Prod. Manager DATE November 30, 1981

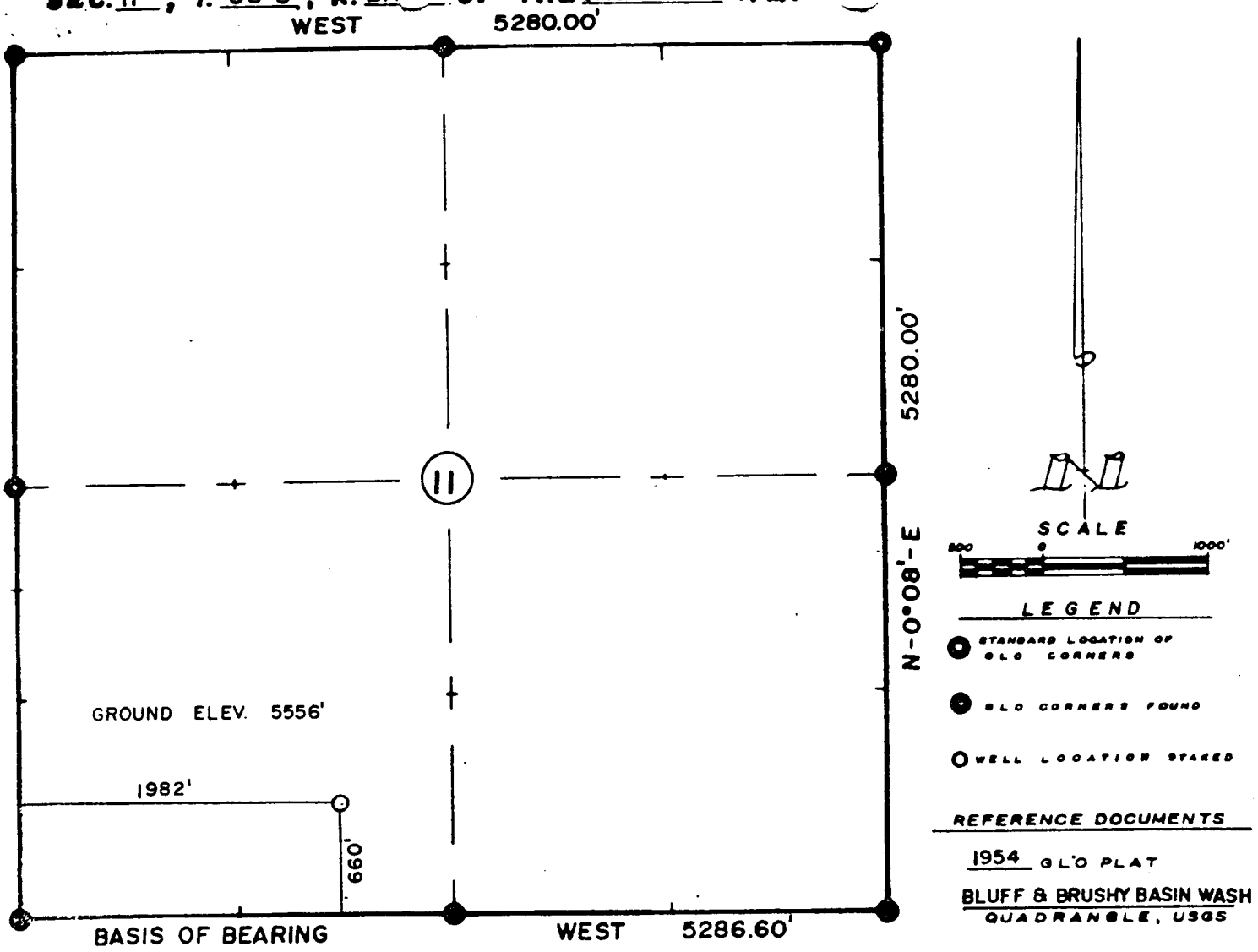
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

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

*See Instructions On Reverse Side

SEC. 11, T. 38-S, R. 21 OF THE SALT LAKE P.M.



THIS WELL LOCATION PLAT WAS PREPARED FOR RESOURCES INVESTMENT CORP. AS REQUESTED BY DAVE FERREL, TO LOCATE THE 2-11 BLACK MESA FEDERAL, 660' F S L & 1982' F W L, IN THE SE 1/4 SW 1/4, OF SECTION 11, T. 38-S, R. 21-E OF THE S.L. P.M. SAN JUAN COUNTY, UTAH.

SURVEYOR'S CERTIFICATE

I, NEALE C. EDWARDS A REGISTERED LAND SURVEYOR IN THE STATE OF UTAH DO HEREBY CERTIFY THAT THIS SURVEY WAS MADE UNDER MY DIRECT SUPERVISION AND THAT THIS PLAT REPRESENTS SAID SURVEY.

NCE SURVEYS

2605 C.R. # 203
DURANGO, COLO.
81301
(303) 247-2342

REGISTERED LAND SURVEYOR
NEALE C. EDWARDS
5252
STATE OF UTAH

Neale C. Edwards
UTAH L.S. NO 5252

DATE: NOV. 12, 1981

RESOURCES
INVESTMENT
CORPORATION 3500 Anaconda Tower 555 17th Street Denver, Colorado 80202-3968 Tel 303/825-3328

OIL AND GAS EXPLORATION AND PRODUCTION Subsidiary of ENERGY MANAGEMENT CORPORATION

RECEIVED
JAN 05 1982
DIVISION OF
OIL, GAS & MINING

December 29, 1981

Utah Division of Oil, Gas & Mining
1588 West, North Temple
Salt Lake City, Utah
Attn: Debby Beauregard

Re: RIC/Tesoro Federal #2-11
Section 11-T38S-R21E
San Juan County, Utah

Dear Ms. Beauregard:

As per our recent telephone conversation, Resources Investment Corporation hereby requests drilling of the referenced well as an exception location to statewide oil well spacing as follows:

1300' FSL & 2400' FWL (SE SW) Section 11-T38S-R21E
San Juan County, Utah

the success of this well depends on the development of Desert Creek porosity; and, as indicated in Figure 1, moving the drillsite to accommodate statewide spacing would substantially increase the geological risk in drilling this lease. An APD to drill in the SE SE of Section 11 has been filed; however, this location lies in a mule deer stipulation area that cannot be drilled prior to April 1, 1982. By this time, the federal lease including the SE SW of Section 11 will have expired.

Resources Investment Corporation controls all acreage within 660' of this location (through Tesoro Petroleum Corporation); and, as we understand it, the concurrence of adjacent leaseholders is not necessary. In order to extend this lease, a rotary drilling rig will spud sometime prior to the April 1, 1982 expiration date of this lease. Should any further information be required, please feel free to contact this office at anytime.

Sincerely yours,

RESOURCES INVESTMENT CORPORATION

Dan Hall

Dan W. Hall
District Engineer

DWH:tlh
cc: Roger Lichty, Tesoro Petroleum
Jerry Treybig
Marv W. Isaacson
Dan W. Hall
Pat McDonald
WF, RF

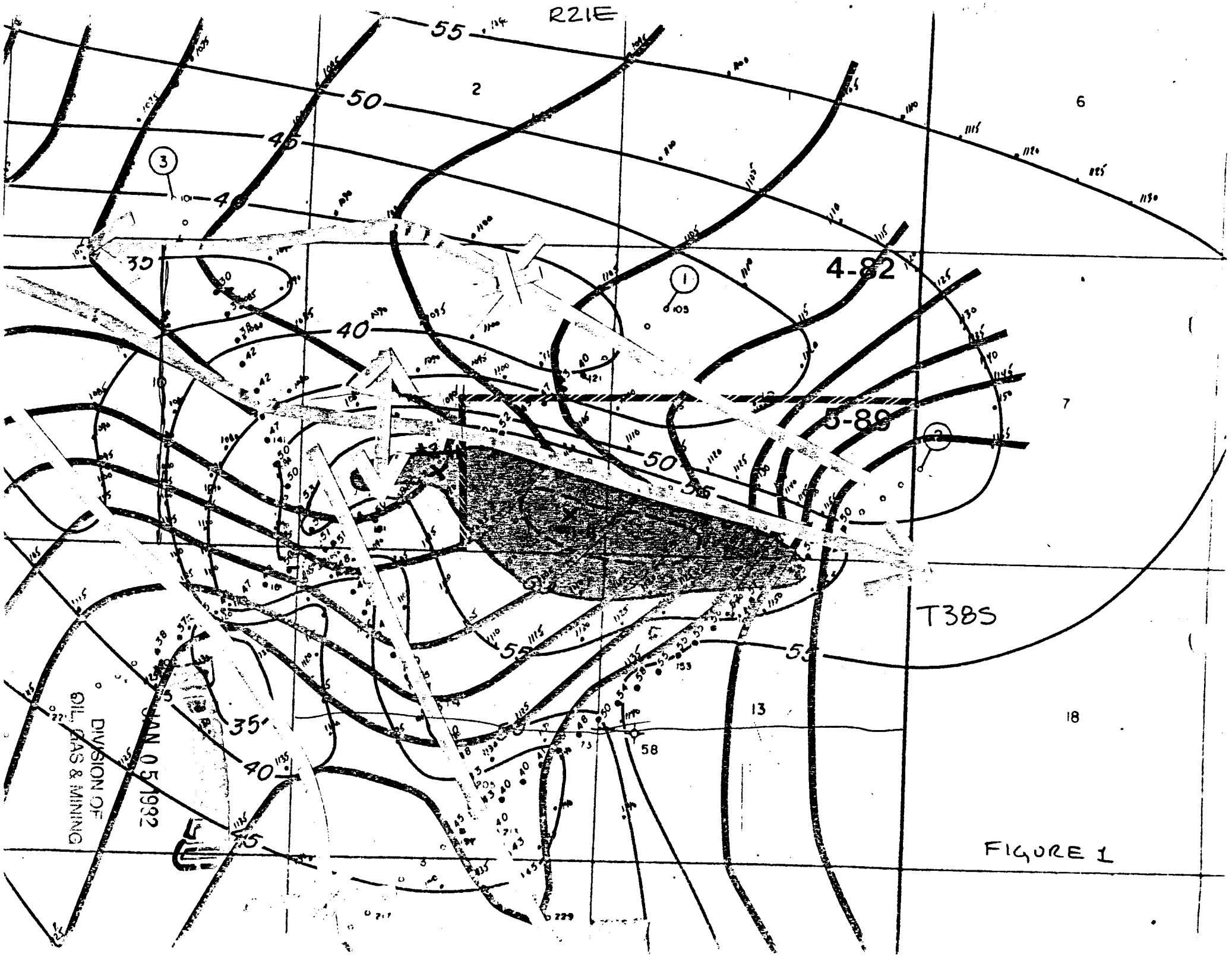


FIGURE 1

JAN 05 1982
DIVISION OF
OIL, GAS & MINING

KCLG ~~T385~~ San Juan Cty, Utah

State | U. S. | U. S. | U. S. | State | 4 40.01 | 4 36.50 U. S.

Lois B. Marbach 39226 5.1.88 | E.B. LARUE JR. 1 TD 8595 EL 5725 GR | R.E. Puckett 26969 5.11.80 | Sun Oil Co. 10242 12.1.79

5 | 4 R.E.Puckett 15871 9.1.81 | 3 15871 (4) | 2 | 15871 (4) | 6 Clifford Cone 36858 6.1.87

U. S. | U. S. | U. S. | State | U. S. | U. S.

Skelly Oil 50% Anderson Ltd 25% Chorney 12½% Brown 12½% 24243 1.1.84 | 24243 (9) | R.E. Puckett 18428 4.1.82 | 18428 (11) | Skelly Oil ½ D.B. Anderson ½ Joan Chorney ½ 16038 9.1.81

8 | 9 | 10 | 11 10243 (8) RIC/TESORO FED #2-11 RIC/TESORO FED. #1-11 | 12 10243 (8) | 7 T385

U. S. | U. S. | U. S. | U. S. | U. S. | U. S.

20312 (20) | Skelly Oil, etal 21264 11.25.79 | Skelly Oil, etal 17817 2.1.82 | F.J. Bradshaw 18055 4.1.82 | 17817 (15) | L.C. Harris 26033 6.1.84 Carbonite | R.E. Puckett 10243 12.1.79 | R.E. Puckett 17448 2.1.82

17 | 16 RALPH E. FAIR 1 BUTLER WASH. TD 7479 EL 5520 GR. | 15 18055 (25) | 17817 | 14 17817 (15) | 13 HOODAARD HAWKINS UNIT 1 TD 8614 EL 5441 GR. 31257 (23) | 18

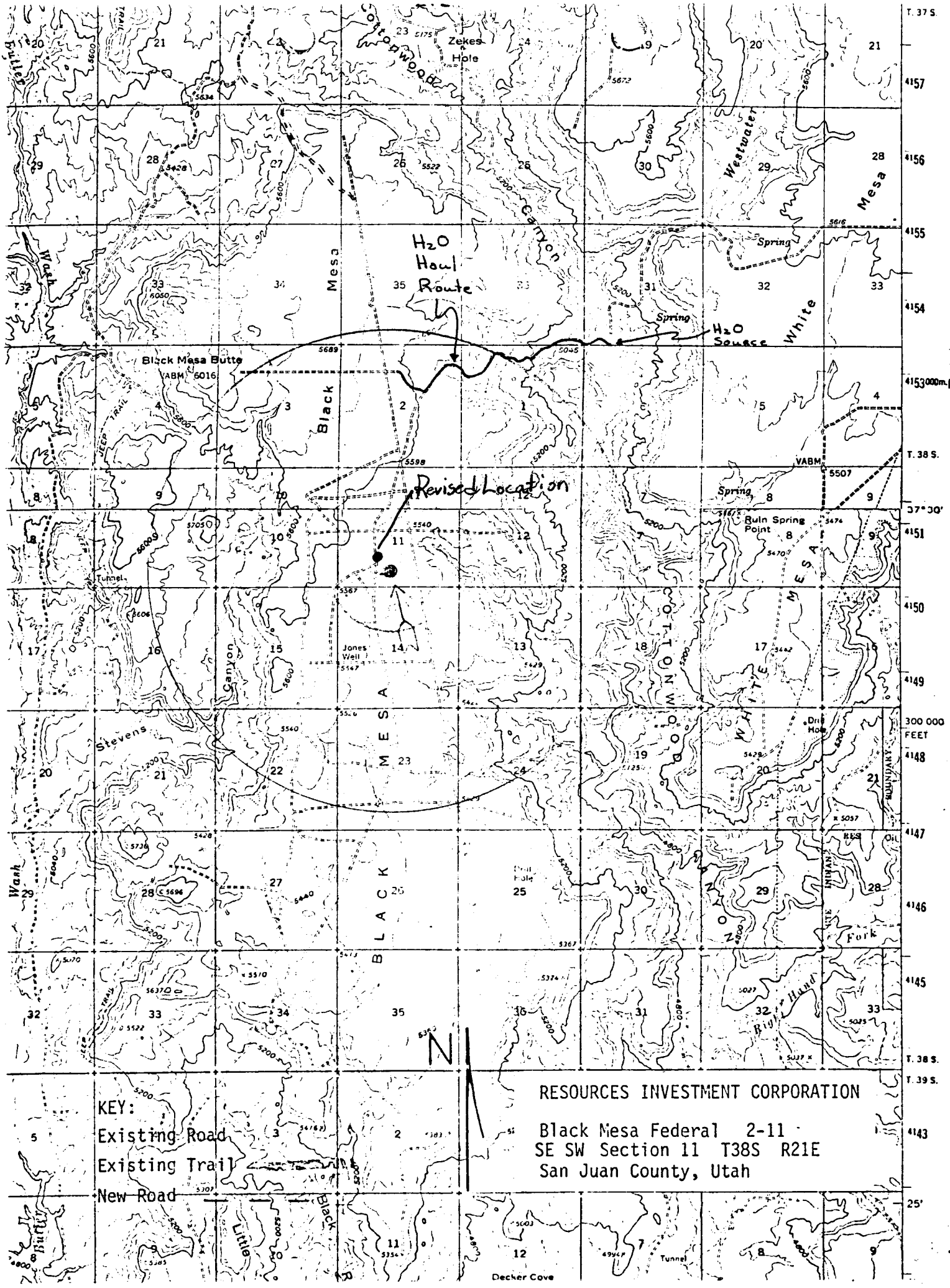
U. S. | State | U. S. | U. S. | U. S. | U. S.

24573 (29) | 24573 (29) | Maurice W. Brown 31257 12.1.85 | 31257 (23)

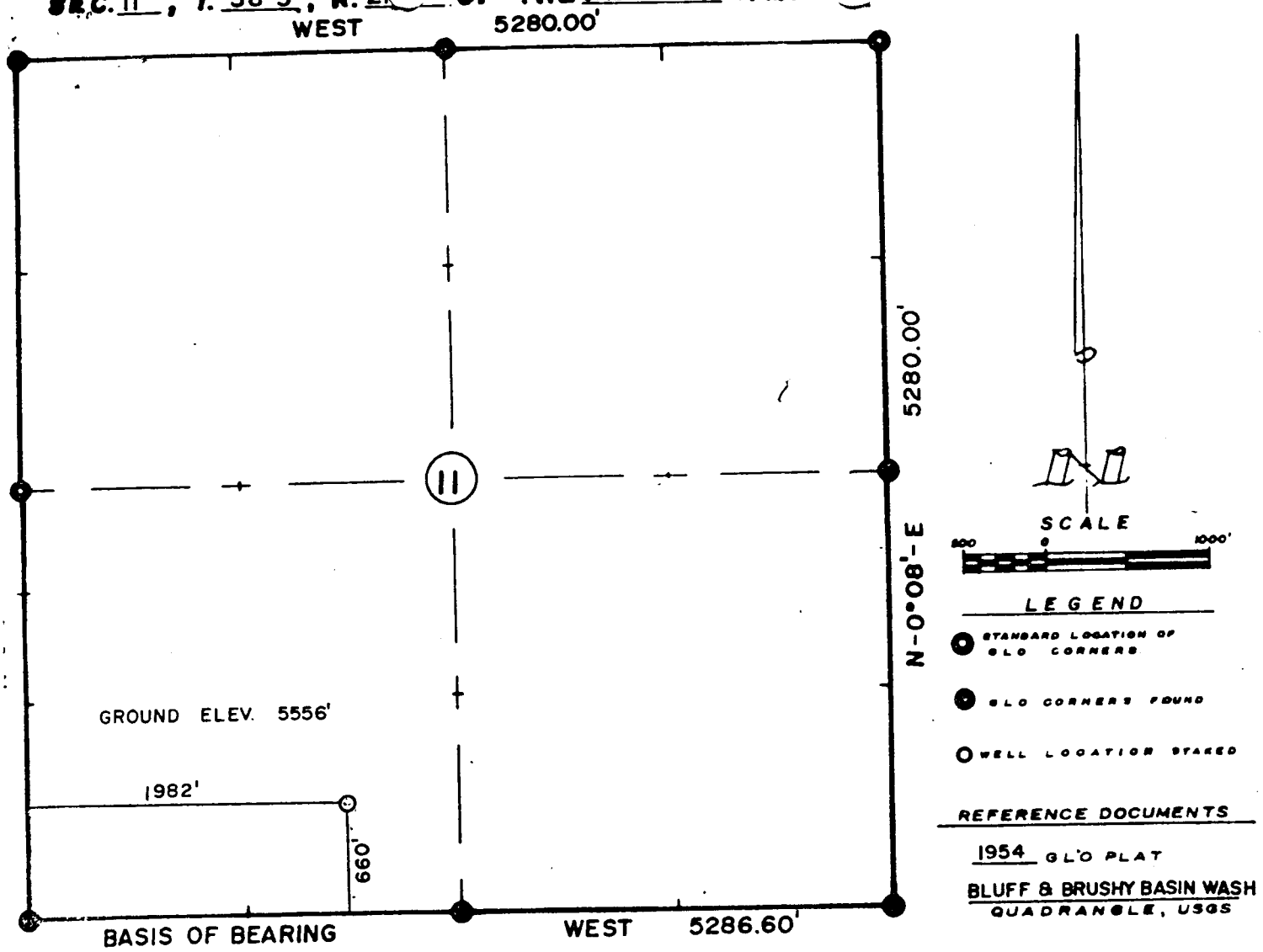
20 | 21 | 22 | 23 | 24 | 19

U. S. | U. S. | U. S. | U. S. | U. S. | U. S.

F.J Bradshaw 24573 2.1.84 | 24573 (29) | F&L Co. 20314 10.1.82 | 31257 (23) | 31257 (23) | Skelly Oil, etal 23146 6.1.83


Zekes Hole
Westwater
Mesa
Canyon
White
Spring
H_2O Haul Route
H_2O Source
Black Mesa Butte
VABM 6016
Black
Revised Location
Ruin Spring Point
Tunnel
Jones Well
Stevens
Canyon
BLACK MESA
COTTONWOOD
WHITE MESA
Drill Hole
Fork
Right Hand
Wash
Little
Decker Cove
T. 37 S.
T. 38 S.
T. 39 S.
37°30'
300 000 FEET
KEY:
Existing Road
Existing Trail
New Road
N
RESOURCES INVESTMENT CORPORATION
Black Mesa Federal 2-11
SE SW Section 11 T38S R21E
San Juan County, Utah

SEC. 11, T. 38-S, R. 21 OF THE SALT LAKE P.M.



THIS WELL LOCATION PLAT WAS PREPARED FOR RESOURCES INVESTMENT CORP. AS REQUESTED BY DAVE FERREL, TO LOCATE THE 2-11 BLACK MESA FEDERAL, 660' F S L & 1982' F W L, IN THE SE 1/4 SW 1/4, OF SECTION 11, T. 38-S, R. 21-E OF THE S.L. P.M. SAN JUAN COUNTY, UTAH.

SURVEYOR'S CERTIFICATE

I, NEALE C. EDWARDS A REGISTERED LAND SURVEYOR IN THE STATE OF UTAH DO HEREBY CERTIFY THAT THIS SURVEY WAS MADE UNDER MY DIRECT SUPERVISION AND THAT THIS PLAT REPRESENTS SAID SURVEY.

NCE SURVEYS

2605 C.R. # 203
DURANGO, COLO.
81301
(303) 247-2342

REGISTERED LAND SURVEYOR
NEALE C. EDWARDS
5252
STATE OF UTAH

Neale C. Edwards
UTAH L.S. NO 5252

DATE: NOV. 12, 1981

Petroleum Engineers, Inc.
1660 Lincoln Street, Suite 1500
Denver, Colorado 80264
303/837-0132
307/746-2620

RESOURCES INVESTMENT CORPORATION
Black Mesa Federal 2-11
SE SW Section 11, T38S, R21E
San Juan County, Utah
U-18428

10 POINT OPERATIONAL PLAN

I. The geologic name of the surface formation is Morrison.

II. The estimated tops of important geologic markers are:

Entrada	1228'	Moenkopi	3071'
Navajo	1401'	Hermosa	5275'
Wingate	2033'	Upper Ismay	6157'
Chinle	2691'	Lower Ismay	6280'
Shrinarump	3039'	Desert Creek	6402'

III. Hydrocarbons are expected in the Desert Creek at approximately 6430 feet. It is recognized, however, that certain other sands are potentially productive.

IV. Proposed Casing and Cementing Programs (All New Casing)

Surface:

Depth	Size	Grade	Weight	Thread	Coupling
500'	9-5/8"	K-55	24#	8rd	ST&C

Cement to surface with 235 sacks Class "C" with 2% CaCl.

Production:

Depth	Size	Grade	Weight	Thread	Coupling
TD	5½"	K-55	15.5#	8rd	LT&C

Cement with Class "C" and LCM as required to control circulation loss.

V. Operator's Minimum Requirements for Pressure Control Equipment

Ten inch 900 Series Double Gate B.O.P. with Pipe and C.S.O. Rams (3000# W.P.)

A choke manifold is required with equivalent pressure rating as B.O.P. Prior to drilling out shoe, test casing to 50% of internal yield, test ram type preventers to rated working pressure or 70% of internal yield of casing, whichever is less, for 15 minutes. Test choke manifold to rated working pressure for 15 minutes. Test B.O.P. each 30 days thereafter. Cycle pipe rams daily and C.S.O. rams when out of hole. Note on tour report book. Insure the kill line is connected and operational at all times.

VI. Type and Characteristics of Proposed Circulating Muds

Depth	Type	Weight	Viscosity	Fluid Loss
0-500'	Gel/lime	8.5-9.0#	35-50 sec.	NC
500-2500'	Fresh water w/flocculant	8.3-8.7# (9.5 if water flows are encountered)	26-29 sec.	NC
2500'-TD	Lightly dis.	8.8-9.2#	35-45 sec.	15 cc (10 cc for last 300')

Adequate stocks of sorptive agents and other materials to control down-hole problems, should they arise, will be available on location.

VII. Auxillary Equipment

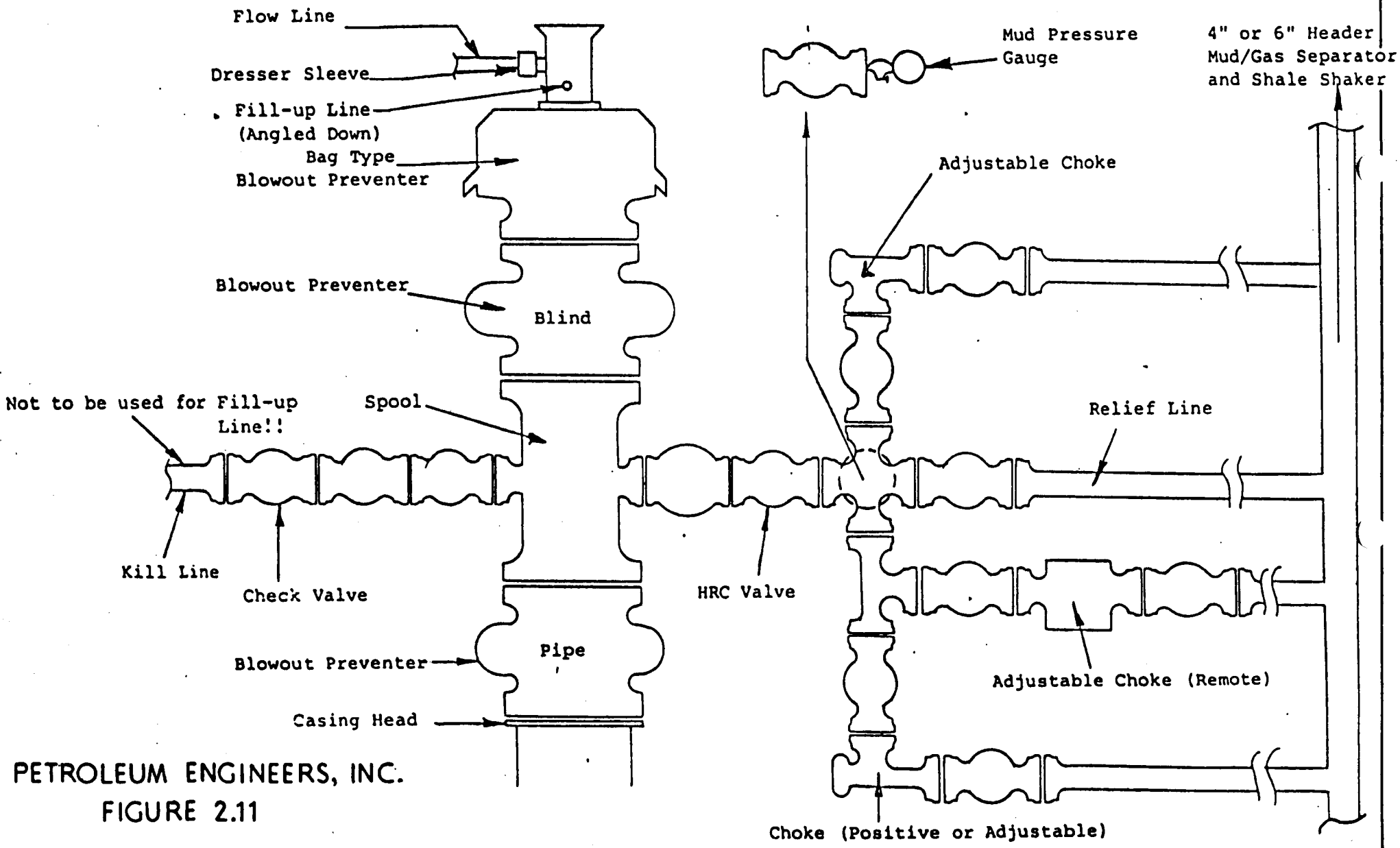
1) Kelly cock
2) Bit floats will be available
3) Full opening floor valve with proper thread
4) Mud system will be monitored visually

VIII. DST all shows. No cores are planned. The logging program will consist of DIL, CNL, BHC/Sonic/Caliper.

IX. Hydraulic fracturing with hydrocarbons is possible. Should this become a necessity, applicable safety spacing regulations will be maintained. A Sundry Notice will be filed when fracing or acidizing is deemed necessary. No abnormal pressures or temperatures are expected. No Hydrogen Sulfide is anticipated.

X. The anticipated starting date is spring, 1982. An estimated 25 days will be required for operations.

SERIES 900 DOUBLE GATE RAM



PETROLEUM ENGINEERS, INC.
FIGURE 2.11

Petroleum Engineers, Inc.
1660 Lincoln Street, Suite 1500
Denver, Colorado 80264
303/837-0132
307/746-2620

RESOURCES INVESTMENT CORPORATION
Black Mesa Federal 2-11
SE SW Section 11, T38S, R21E
San Juan County, Utah
U-18428

13 POINT SURFACE USE PLAN

I. EXISTING ROADS

A. Refer to highway and topographic maps.

B. From Blanding, Utah, proceed south on Highway 163 to junction of Highways 163 and 95. Continue on Highway 95 for 6 miles to fork, bear left for 0.8 mile. At this point, turn left onto county dirt road and continue on main road for 4.4 miles to location.

C. Refer to highway and topographic maps.

D. Refer to highway and topographic maps.

E. Refer to highway and topographic maps.

F. Roads will be maintained as necessary to permit all-weather travel.

II. PLANNED ACCESS ROAD (50 feet of new access)

1) Maximum width of the crowned running surface will be 18 feet with 4 feet of additional disturbance for ditches. The county road will not need improvements.

2) Maximum grade is less than 2%.

3) No turnouts are required.

4) Drainage design will conform with existing topography.

5) No culverts are necessary.

6) No surfacing material is required for drilling. If production is established, materials, if needed, will be obtained from contractors in the local area; however, per their request, the BLM, Monticello, will be notified prior to placing any surfacing materials on the access road or location. In addition, the road will be upgraded to accomodate all-weather travel per BLM specifications.

7) No fence cuts will be required; no cattleguard is necessary; and no gates will be installed.

8) The new access road was center-line flagged.

III. LOCATION OF EXISTING WELLS (within 2 mile radius-refer to topo map)

1)	Water wells	1
2)	Abandoned wells	2
3)	Temporarily abandoned wells	0
4)	Disposal wells	0
5)	Drilling wells	0
6)	Producing wells	0
7)	Shut-in wells	0
8)	Injection wells	0
9)	Monitoring wells	0

IV. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES (within 2 mile radius)

A. There are no existing production facilities owned or controlled by the Operator.

B. Contemplated facilities in the event of production:

1) Proposed production facilities will be located on the drilling pad and spaced per applicable regulations.

2) Proposed facilities will require an area of approximately 300' x 120'.

3) The tank battery will be constructed using a bulldozer to level the site, backhoes to dig trenches and bury lines, pole trucks, floats, and roustabout crews to maneuver and set equipment. Construction materials will consist of subsurface soil. Any surfacing materials required will be cleared with BLM, Monticello, prior to use.

4) With regard to protecting livestock and wildlife, the production pit will be fenced. The pumping unit will be fenced. Recycle pumps, if any, will be enclosed. The treater and tanks will be diked and, per BLM requirements, all above-ground production facilities will be painted a neutral color.

C. Rehabilitation Plan

Areas disturbed, but no longer needed for operations, will be scarified with the contour to a depth of 6 inches. Stockpiled topsoil will be distributed and the area reseeded with the following mixture as specified by the BLM, Monticello:

2 lbs/acre Indian ricegrass (Oryzopsis hymenoides)
1 lbs/acre Fourwing saltbush (Atriplex canescens)
½ lbs/acre Sand dropseed (Sporobolus cryptandrus)
1 lbs/acre Rubber rabbitbrush (Chrysothamnus nauseosus)

The seed will be drilled at a time specified by the BLM. After seeding is complete, the stockpiled trees will be scattered evenly over the disturbed areas and walked down with a dozer. The access will be blocked with waterbars etc. to prevent future use.

V. LOCATION AND TYPE OF WATER SUPPLY

A. Water will be obtained from Cottonwood (Canyon) Creek in the S½ SW¼ Section 31, T38S, R20E. An application for a State of Utah industrial water-use permit has been applied for by Petroleum Engineers, Inc.

B. Water will be transported via truck over existing roads.

C. No water well will be drilled.

VI. SOURCE OF CONSTRUCTION MATERIALS

A. Construction materials will be obtained as much as possible from the drilling location. If additional materials are necessary, they will be obtained from contractors in the local area. Prior to their use, approval will be obtained from the BLM, Monticello.

B. If construction materials are required, they will not be obtained from federal or indian lands.

C. Refer to A.

D. No access roads for construction materials are necessary.

VII. METHODS FOR HANDLING WASTE DISPOSAL

A. Cuttings not retained for evaluation will be placed in the reserve pit.

B. Drilling fluids will be contained in mud tanks or in the reserve pit.

C. Produced water will temporarily be placed in the reserve pit or production pit, depending upon volumes encountered. Permanent disposal of produced water will be in accordance with NTL-2B. Produced oil will be collected in tanks and trucked from the location.

D. A portable toilet will be provided. Human waste will be chemically treated and buried at the conclusion of operations. Sewage from trailers will be buried as noted above.

E. Combustible materials will be burned frequently in a burn pit dug at least six feet deep into solid undisturbed material and totally enclosed with small mesh wire. If trash is burned between May 1 and October 31, a burning permit will be required. This will be obtained from the State Fire Warden, John Baker at 801-587-2705. Other waste materials will be collected in an adjacent fenced waste pit. The trash/burn pit(s) will be backfilled at the conclusion of operations. All materials buried will be at least 2 feet deep.

F. After drilling operations are concluded and the rig is off location, the area will be cleaned of all trash material. Such material will be segregated with respect to combustibility then burned or buried as noted above.

VIII. ANCILLARY FACILITIES

No camps or airstrips will be constructed. A portable trailer will be parked on the drilling location in the area shown on the rig layout.

IX. WELLSITE LAYOUT

Please refer to rig layout. All equipment will be confined to access road and wellpad. The reserve pit will be fenced on three sides with four strand barbed wire prior to drilling. The reserve pit will be unlined. The pit has been designed to prevent collection of surface runoff. As shown on the cut/fill diagrams, at least 1/2 the pit will be in cut.

X. SURFACE RESTORATION PLAN

A. Prior to rig release, the reserve pit will be fenced on the 4th side, kept in good repair, and allowed to dry before backfilling, recontouring, and reseeding. Rat and mouse holes will be backfilled. All trash materials will be burned or buried. Prior to beginning rehabilitation work, the operator or his contractor will contact the San Juan Resource Area BLM office in Monticello, Utah, (#801-587-2201). Waste and burn pits will be backfilled. In the event of a dry hole, the location and access roads will be ripped 18 inches deep following original contour, stockpiled topsoil will be distributed over the area, and the area reseeded as noted in IV-C. Waterbars will be constructed per BLM requirements. Access roads will be ripped 18 inches deep and rehabilitated per BLM requirements. In the event of production, refer to IV-C for details regarding rehabilitation of those areas not required for operations.

B. Rehabilitation and revegetation will be in accordance with surface management agency recommendations. Refer to IV-C.

C. Refer to A.

D. Overhead flagging will be installed if oil is in or on the pit.

E. Rehabilitation will begin as soon as practical after the rig is off location and should be completed after the pit has completely dried.

XI. OTHER INFORMATION

Note additional BLM requirements:

The San Juan County Road Department in Monticello, Utah, will be contacted prior to use of county roads for this activity, at 801-587-2231, Ext. 43.
The operator or his contractor will contact the San Juan Resource Area Office in Monticello, Utah (801-587-2201) 48 hours prior to beginning any work on public land.
The dirt contractor will be furnished with a copy of the Surface Use Plan and any additional BLM stipulations prior to any work.
Surface disturbance and vehicular travel will be limited to the approved location and approved access route. Any additional area needed will be approved in advance.
The top six inches of soil material will be removed from the location and stockpiled separate from the trees on the northeast and west side of the location. Topsoil along the access will be reserved in place.
If subsurface cultural material is exposed during construction, work will be suspended immediately and the San Juan Resource Area Office will be contacted.
All employees working in the area will be informed by the operator that they will be subject to prosecution if they are caught disturbing archaeological sites or picking up artifacts. Salvage or excavation of identified archaeological sites will only be done if damage occurs.
Production: The reserve pit and that portion of the location and access road not needed for production or production facilities will be reclaimed in the methods described in the rehabilitation section. Enough topsoil will be retained to reclaim the remainder of the location at a future date. The remaining stockpile of topsoil will be seeded in place using the prescribed seed mixture.
All above-ground production facilities will be painted a neutral color (earth-tone is suggested) to be approved by the BLM.
The access shall be upgraded to the BLM specifications.

The topography in the area bordering the proposed wellsite is characterized by deep canyon-like areas with rocky sandstone outcrops. The area at the stake, however, is fairly flat. The nearest water appears to be the Cottonwood Canyon Creek two miles due east. The soil is a fine reddish sand and accomodates a good stand of prickly pear cactus, barrel cactus, native grasses, sagebrush, and sparse cedar trees. Wildlife in the area are those species common to the Black Mesa area. There appear to be no residences within a 2 mile radius of the wellsite location. The surface is federally owned and managed by the Bureau of Land Management, Monticello, Utah. An archeological survey was done by La Platte Archeological Consultants. As soon as results are available, they will be forwarded to appropriate agencies.

XII. OPERATOR'S REPRESENTATIVE

The operator's representative responsible for compliance with the surface use and operational plan is:

Mr. Marv Issacson
Resources Investment Corporation
555-17th Street, Suite 3500
Denver, Colorado 80202
303/825-3328

For Pre-drill Inspection, contact:

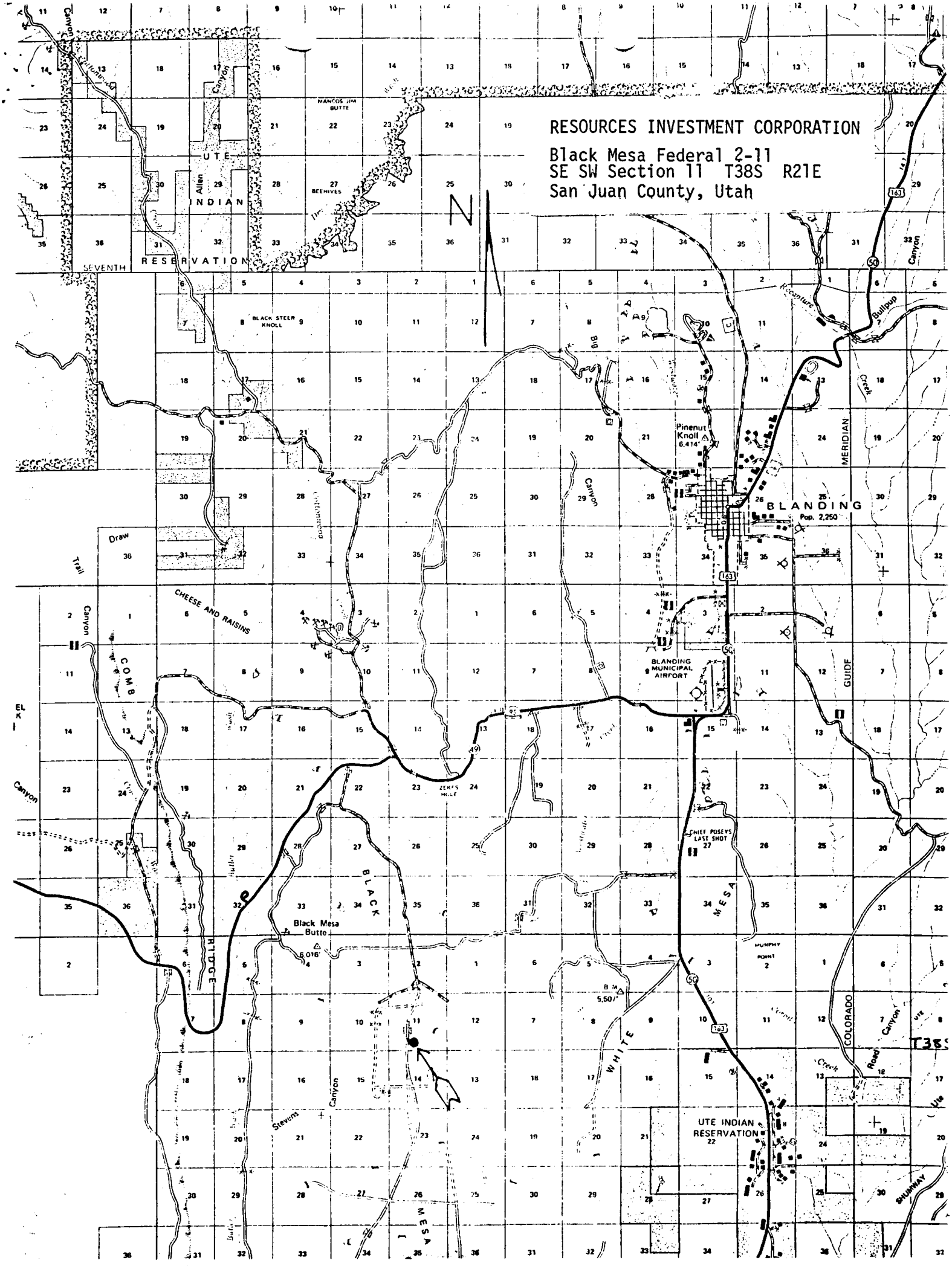
Dave Farrel or Teresa Ackley
Petroleum Engineers, Inc.
307/746-2620

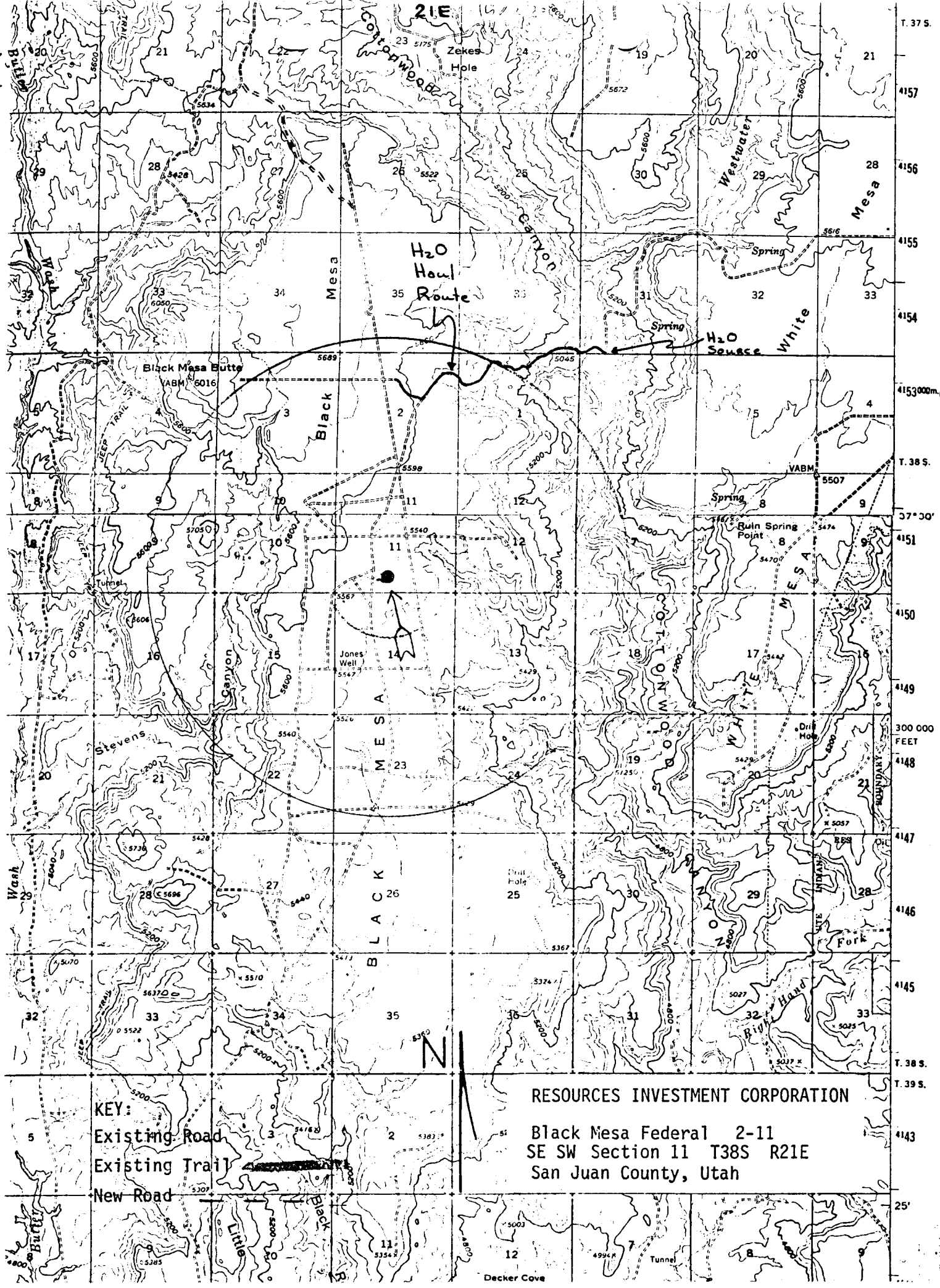
XIII. CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access routes; that I am familiar with the conditions which presently exist; that the statements made herein are to the best of my knowledge true and correct; and that the work associated with the operations proposed herein will be performed by Resources Investment Corporation and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

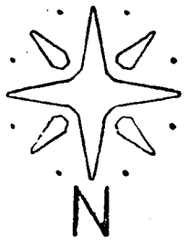
Date: November 30, 1981 By: [signature]

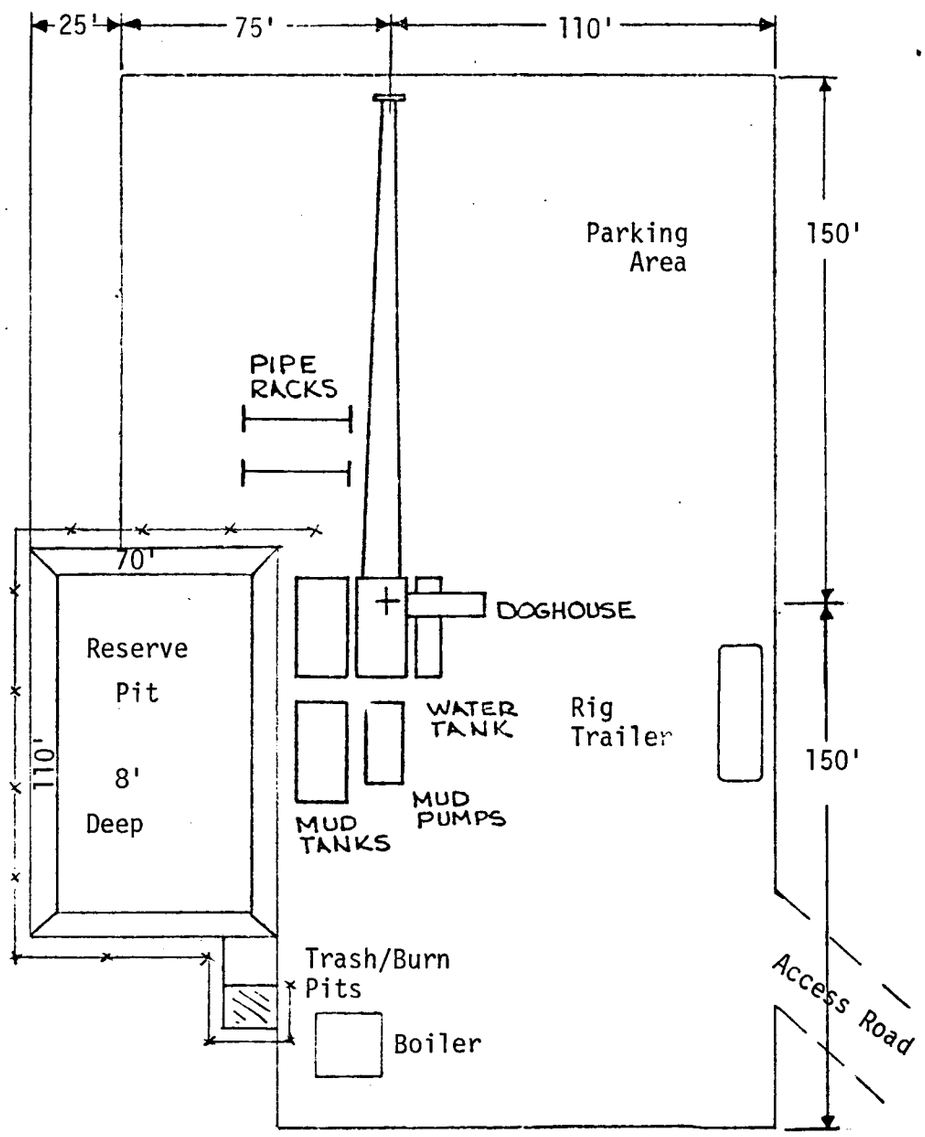
No. District Drilling & Production Manager


RESOURCES INVESTMENT CORPORATION
Black Mesa Federal 2-11
SE SW Section 11 T38S R21E
San Juan County, Utah
N
UTE
INDIAN
RESERVATION
SEVENTH
Allen
Canyon
MANCOS JIM BUTTE
BEEHIVES
BLACK STEER KNOLL
Big
Canyon
Recontour
Bullpup
Creek
Pinenut Knoll
6,414'
BLANDING
Pop. 2,250
MERIDIAN
Draw
Trail
CHEESE AND RAISINS
COMB
RIDGE
BLANDING MUNICIPAL AIRPORT
GUIDE
ZEKE'S HOLE
CHIEF POSEYS LAST SHOT
BLACK
MESA
Black Mesa Butte
6,016'
MURPHY POINT
WHITE
COLORADO
Road
Canyon
Stevens
UTE INDIAN RESERVATION
SHUMWAY
T38S


21E
Zekes Hole
Cottonwood Canyon
Westwater Mesa
Spring
H_2O Haul Route
H_2O Source
White Mesa
Black Mesa Butte
VABM 6016
Black Mesa
Ruin Spring Point
Tunnel
Jones Well
Stevens Canyon
BLACK MESA
COTTONWOOD
WHITE MESA
Drill Hole
Fork
Right Hand
Decker Cove
Little Black R
T. 37 S.
T. 38 S.
T. 39 S.
4157
4156
4155
4154
4153000m.N.
4151
4150
4149
4148
4147
4146
4145
4143
300 000 FEET
37°30'
25'
N
KEY:
Existing Road
Existing Trail
New Road
RESOURCES INVESTMENT CORPORATION
Black Mesa Federal 2-11
SE SW Section 11 T38S R21E
San Juan County, Utah

PETROLEUM ENGINEERS, INC





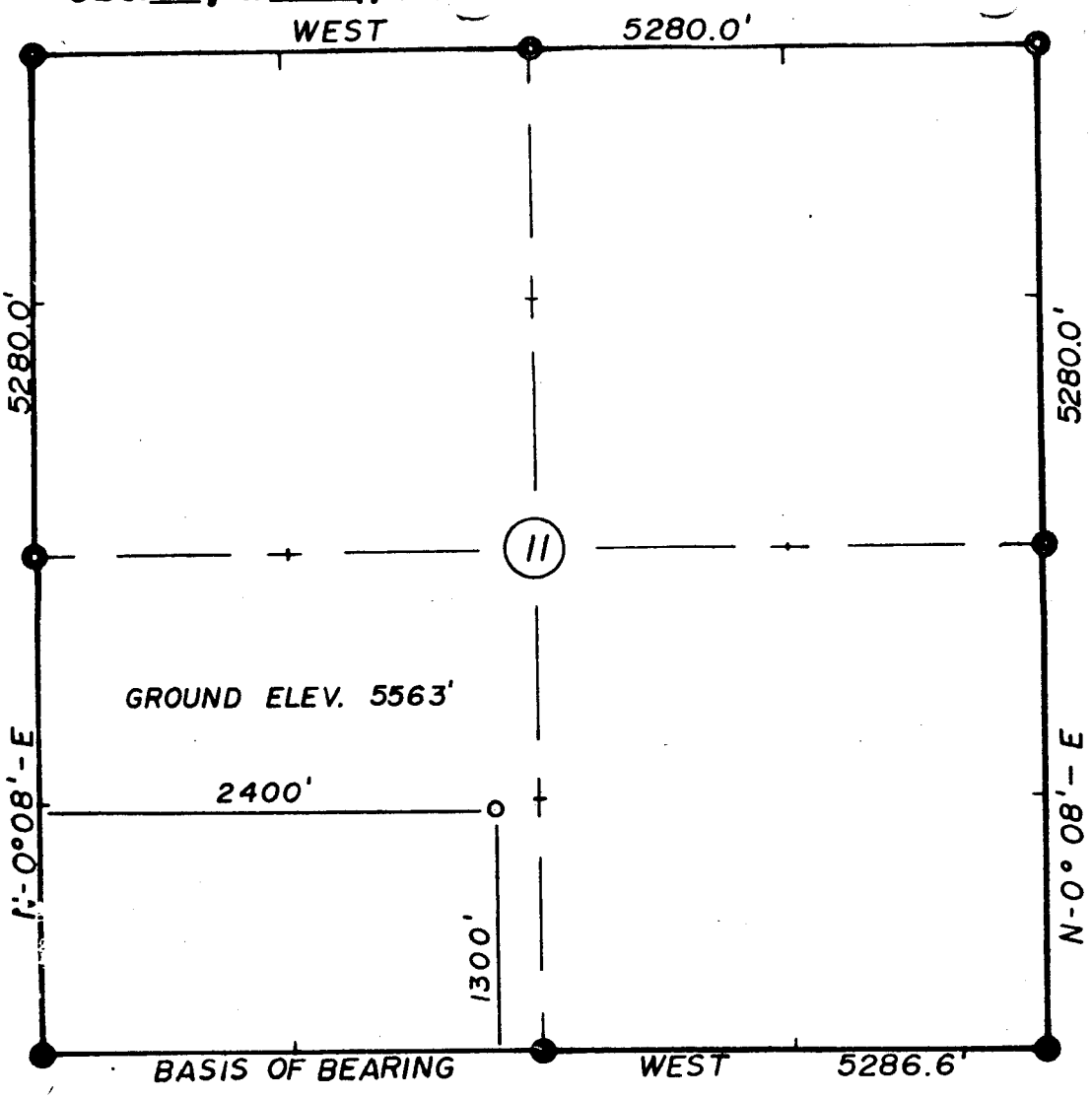
SCALE: 1" = 50'

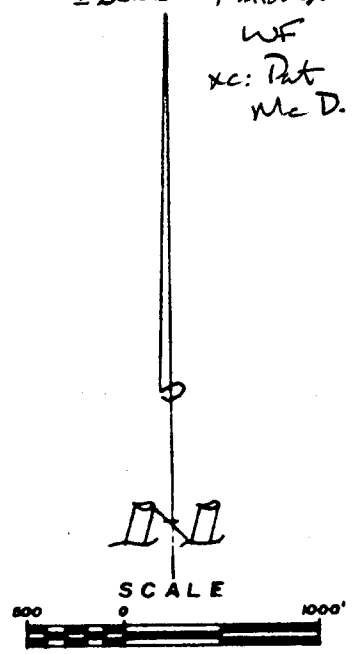
RIG LAYOUT

RESOURCES INVESTMENT CORPORATION
Black Mesa Federal 2-11
San Juan County, Utah

SEC. 11, T. 38-S, R. E OF THE SALT LAKE P. M.

DAN X
BLK 3K
MARV X
WF
xc: Pat
Mc D.





LEGEND

- STANDARD LOCATION OF GLO CORNERS.
- GLO CORNERS FOUND.
- WELL LOCATION STAKED.

REFERENCE DOCUMENTS

1954 GLO PLAT
BLUFF & BRUSHY BASIN WASH
QUADRANGLE, USGS

THIS WELL LOCATION PLAT WAS PREPARED FOR RESOURCES INVESTMENT CORP. AS REQUESTED BY DAVE FERREL, TO LOCATE THE 2-11 RIC - TESORO FEDERAL, 1300' F S L. & 2400' F W L., IN THE SE 1/4 SW 1/4, OF SECTION 11, T. 38S., R. 21E OF THE S.L. P.M. SAN JUAN COUNTY, UTAH.

SURVEYOR'S CERTIFICATE

I, NEALE C. EDWARDS A REGISTERED LAND SURVEYOR IN THE STATE OF UTAH DO HEREBY CERTIFY THAT THIS SURVEY WAS MADE UNDER MY DIRECT SUPERVISION AND THAT THIS PLAT REPRESENTS SAID SURVEY.

NCE SURVEYS

2605 C.R. # 203
DURANGO, COLO.
81301
(303) 247-2342

REGISTERED LAND SURVEYOR
NEALE C. EDWARDS
5252
STATE OF UTAH

Neale C. Edwards
L. S. NO. 5252

DATE: 12-22-81

IN REPLY REFER TO
T38SR21E Sec. 11
(U-069)

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Moab District
San Juan Resource Area
P.O. Box 7
Monticello, Utah 84535

January 11, 1982

Memorandum

To: USGS, Durango, Colorado

From: Area Manager, San Juan

Subject: Resources Investment Corporation's RIC-Tesoro Federal 2-11 Well (U-18428)

We concur with approval of the Application for Permit to Drill Federal 2-11 subject to the following stipulations:

1. The operator will provide a BLM approved archaeologist to monitor the access road and well pad construction.

2. An 18-inch high pad of gravel, sand or dirt, to be obtained from a private source, will be placed over the kiva located in the existing road. Other surfacing material will not be placed on the road without prior BLM approval.

3. The first 1/5 mile of the access road, starting from the county road, will have a maximum disturbed width of 12 feet, with only flat blading of the existing access.

   The remainder of the access road will have a maximum disturbed width of 22 feet, with crowning and ditching, and topsoil to be reserved in place.

4. If the well is not a producer, the road will be rehabilitated and restored to its original 12-foot width.

The archaeological requirement has been fulfilled. No threatened or endangered species are indicated in the area.

Robert Durrie

ACTING

RECEIVED
JAN 13 1982
U. S. GEOLOGICAL SURVEY
DURANGO, COLO.

** FILE NOTATIONS **

DATE: 1-6-82

OPERATOR: Resources Inv. Corp.

WELL NO: RIC/Tesoro Federal 2-11

Location: Sec. 11 T. 38S R. 21E County: San Juan

File Prepared: ✓ Entered on N.I.D:

Card Indexed: Completion Sheet:

API Number 43-037-30763

CHECKED BY:

Petroleum Engineer:

Director:

Administrative Aide: ok per rule C-3(c) tho close to lease line & qtr-qtr sec. line.

APPROVAL LETTER:

Bond Required: Survey Plat Required:

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 Fed Plotted on Map

Approval Letter Written

Hot Line ✓ P.I. ✓

RESOURCES
INVESTMENT
CORPORATION 3500 Anaconda Tower 555 17th Street Denver, Colorado 80202-3968 Tel 303 825-3328

OIL AND GAS EXPLORATION AND PRODUCTION Subsidiary of ENERGY MANAGEMENT CORPORATION EMC

February 2, 1982

State of Utah
Oil & Gas & Mining Division
1588 West, North Temple
Salt Lake City, Utah 84116
Attn: Debby Beauregard

Re: RIC/Tesoro Federal #2-11
Section 11-T38S-R21E
San Juan Co., Utah

Dear Ms. Beauregard:

Enclosed please find one copy of the Sundry Notice denoting that the above subject well has been resurveyed and relocated for geologic reasons. Also enclosed is location plat, rig layout, production layout and cuts and topo map.

If you have any questions, please do not hesitate to contact me at the letterhead address.

Sincerely yours,

RESOURCES INVESTMENT CORPORATION

T.L. Hoffman
Operations Secretary

tlh
Enclosure

cc: Marv W. Isaacson
Dan W. Hall
WF
RF

RECEIVED
FEB 08 1982
DIVISION OF
OIL, GAS & MINING

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. LEASE DESIGNATION AND SERIAL NO.: U-18428

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NA

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

7. UNIT AGREEMENT NAME: NA

2. NAME OF OPERATOR: Resources Investment Corporation

8. FARM OR LEASE NAME: RIC-Tesoro Federal

3. ADDRESS OF OPERATOR: 555-17th Street, Suite 3500 Denver, Colorado 80202

9. WELL NO.: 2-11

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1300' FSL & 2400' FWL (SE SW)

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 11, T38S, R21E

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5563' 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*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other) Relocate wellsite			[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.)*

With respect to Items 4 & 15, wellsite has been resurveyed and relocated as shown for geologic reasons. The 10 point & 13 point programs will remain intact per the on-site inspection. Find attached revised survey plat, rig and production layouts.

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 2/23/82
BY: Ron Daniels

RECEIVED
FEB 08 1982
DIVISION OF OIL, GAS & MINING

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

SIGNED [signature] TITLE Northern District Drilling & Prod. Manager DATE January 7, 1982

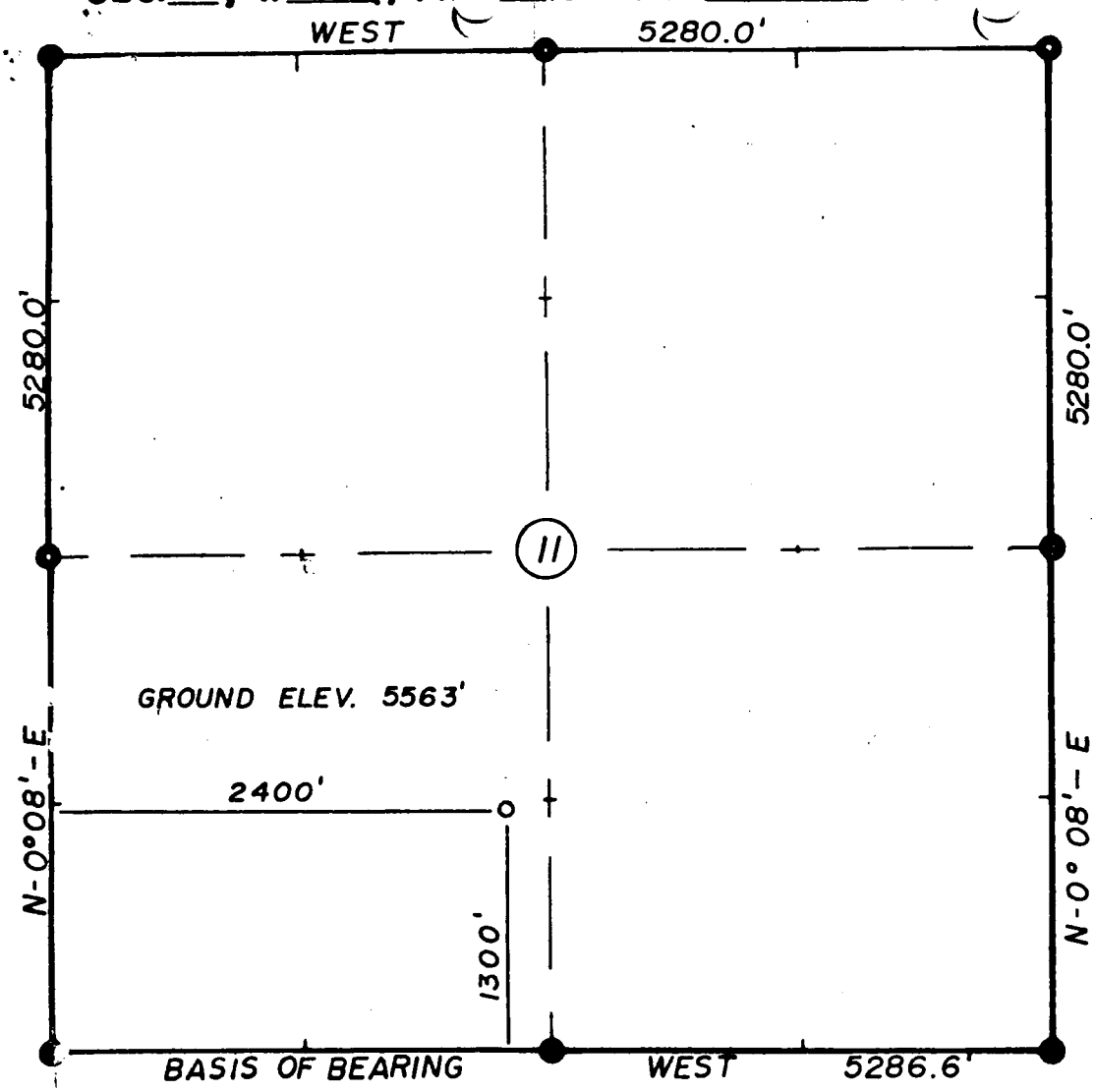
(This space for Federal or State office use)

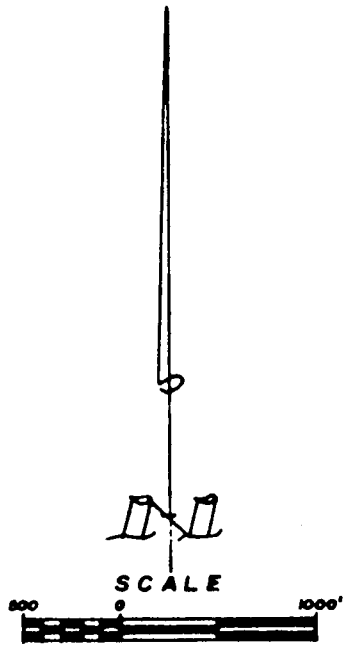
APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

SEC. 11, T. 38-S, R. E OF THE SALT LAKE P. M.





LEGEND

- STANDARD LOCATION OF GLO CORNERS.
- GLO CORNERS FOUND.
- WELL LOCATION STAKED.

REFERENCE DOCUMENTS

1954 GLO PLAT

BLUFF & BRUSHY BASIN WASH QUADRANGLE, USGS

THIS WELL LOCATION PLAT WAS PREPARED FOR RESOURCES INVESTMENT CORP. AS REQUESTED BY DAVE FERREL, TO LOCATE THE 2-11 RIC - TESORO FEDERAL, 1300' F S L. & 2400' F W L., IN THE SE 1/4 SW 1/4, OF SECTION 11, T. 38S., R. 21 E OF THE S.L. P.M. SAN JUAN COUNTY, UTAH.

SURVEYOR'S CERTIFICATE

I, NEALE C. EDWARDS A REGISTERED LAND SURVEYOR IN THE STATE OF UTAH DO HEREBY CERTIFY THAT THIS SURVEY WAS MADE UNDER MY DIRECT SUPERVISION AND THAT THIS PLAT REPRESENTS SAID SURVEY.

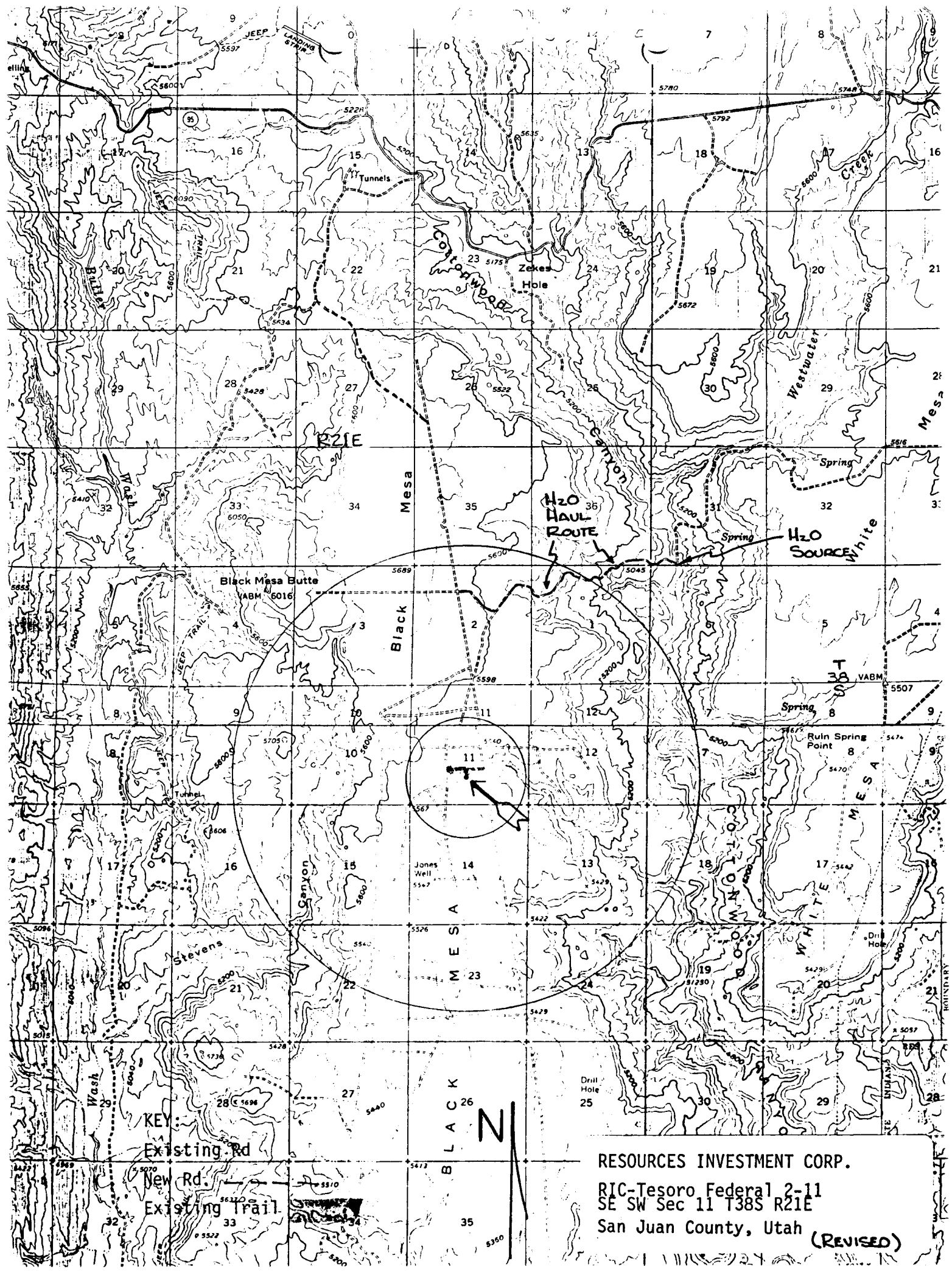
NCE SURVEYS

2605 C.R. # 203
DURANGO, COLO.
81301
(303) 247-2342

REGISTERED LAND SURVEYOR
NEALE C. EDWARDS
5252
STATE OF UTAH

L. S. NO. 5252

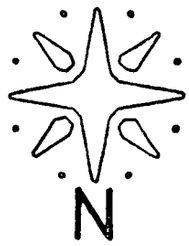
DATE: 12-22-81

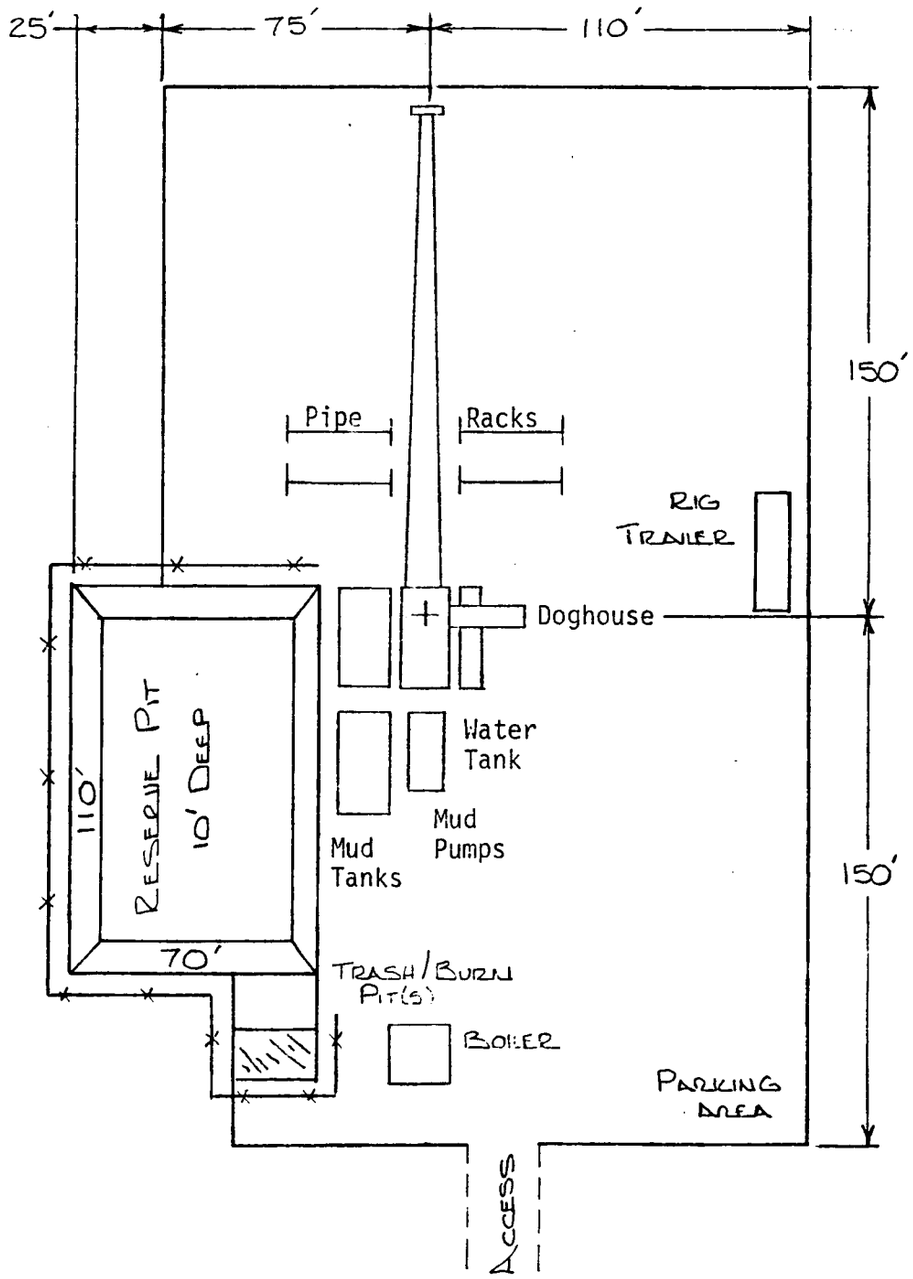


RESOURCES INVESTMENT CORP.

RIC-Tesoro Federal 2-11
SE SW Sec 11 T38S R21E
San Juan County, Utah (REVISED)

PETROLEUM ENGINEERS, INC.





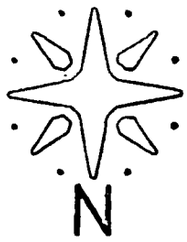
RIG LAYOUT

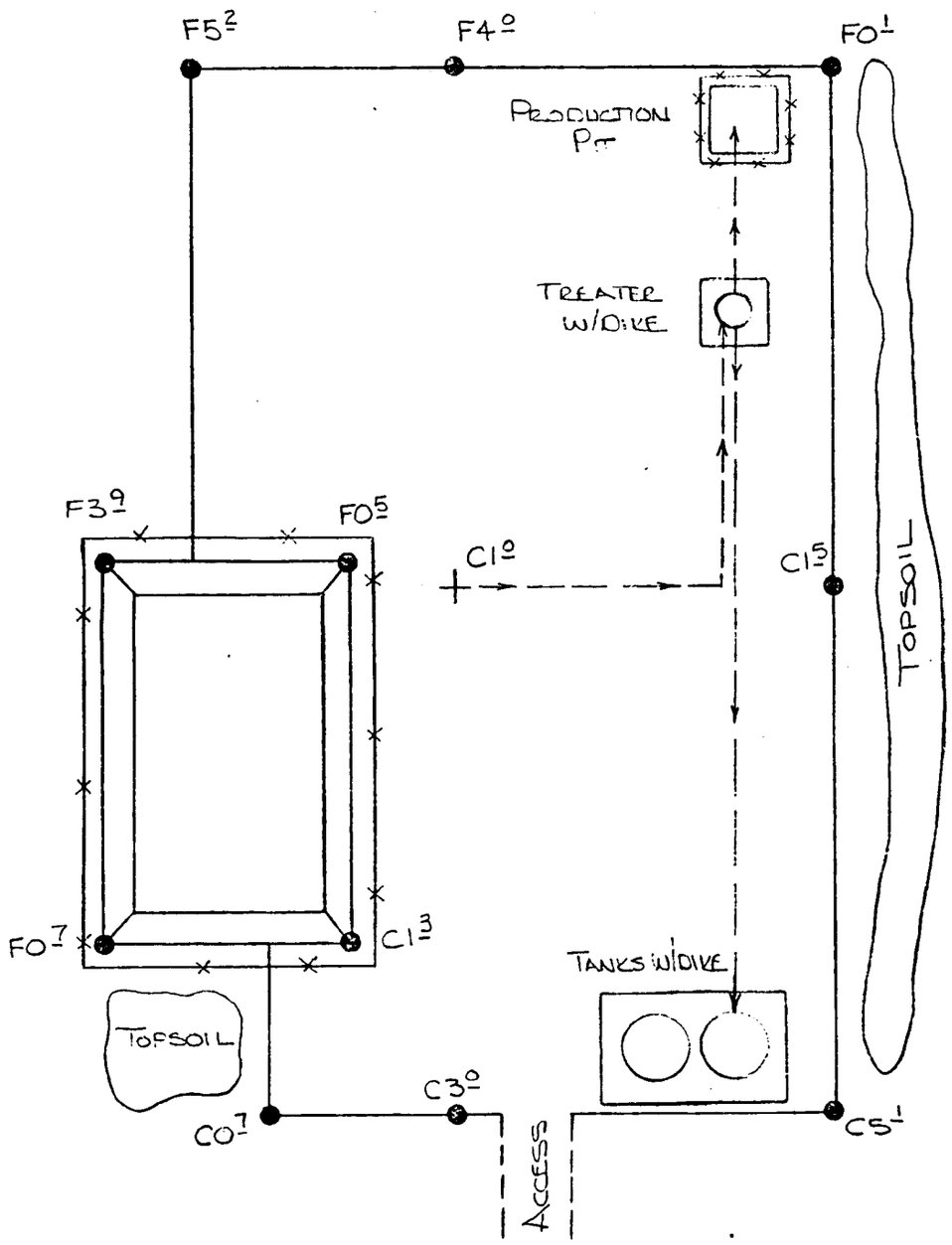
SCALE: 1"=50'

BY: DF

RESOURCES INVESTMENT CORP.
RIC-TESORO FEDERAL 2-11
SE SW SEC 11 T.38S R.21E
SAN JUAN COUNTY, UTAH

PETROLEUM ENGINEERS, INC.





PRODUCTION LAYOUT & CUTS - FILLS

SCALE: 1"=50'

BY: DF

RESOURCES INVESTMENT CORP.
RIC-TISORO FEDERAL 2-11
SE SW SEC. 11 T38S. R21E.
SAN JUAN COUNTY, UTAH

February 23, 1982

Resources Investment Corporation
555 17th St., Suite #3500
Denver, Colo. 80202

RE: Well No. RIC/Tesoro Federal #2-11,
Sec. 11, T. 38S, R. 21E,
San Juan County, Utah

Insofar as this office is concerned, approval to drill the above referred to O/G 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 the following:

CLEON B. FEIGHT
Office: 533-5771
Home: 466-4455

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 43-037-30763.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Ronald W. Daniels
Deputy Director

RWD/db
CC: USGS

NOTICE OF SPUD

Caller: RIC Duane Arthur

Phone: 303-825-3328

Well Number: RIC-Tesoro #2-11

Location: SE ~~SE~~SW 11-38S-21E

County: San Juan State: Utah

Lease Number: U-18428

Lease Expiration Date: 3-31-82

Unit Name (If Applicable): N/A

Date & Time Spudded: March 31, 1982 9:15 AM

Dry Hole Spudder/Rotary: Rotary

Details of Spud (Hole, Casing, Cement, etc.)

Rotary Rig Name & Number:

Approximate Date Rotary Moves In: Drilling ahead

FOLLOW WITH SUNDRY NOTICE

Call Received By: WMH

Date: 4-1-82 9:15 AM

1-303-825-3328

Diane will send in confidential letter by May 19, 1982

RECEIVED
APR 06 1982
DIVISION OF
OIL, GAS & MINING

2

COMPANY RESOURCES INVESTMENT CORPORATION WELL RIC TESORO FEDERAL #2-11 TEST NO. 2 COUNTY SAN JUAN STATE UTAH

MINERALS MANAGEMENT SERVICE
RECEIVED
MAY 3 1982
SUB-DISTRICT

J-300 DATA

JOHNSTON

Schlumberger

computerized data analysis

NOTED-McCOY

FIELD REPORT #42856 E

JOHNSTON
Schlumberger

COMPUTERIZED DATA ANALYSIS

APRIL 29, 1982

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 BUT ADEQUATE SHUT-IN BUILD-UPS DID NOT OCCUR FOR RELIABLE QUANTITATIVE ANALYSIS. AFTER-FLOW WAS STILL IN EFFECT ON THE INITIAL AND FINAL SHUT-IN BUILD-UPS TO THE EXTENT THAT THE PLOTS ARE CONSIDERED UNRELIABLE FOR ANALYSIS.

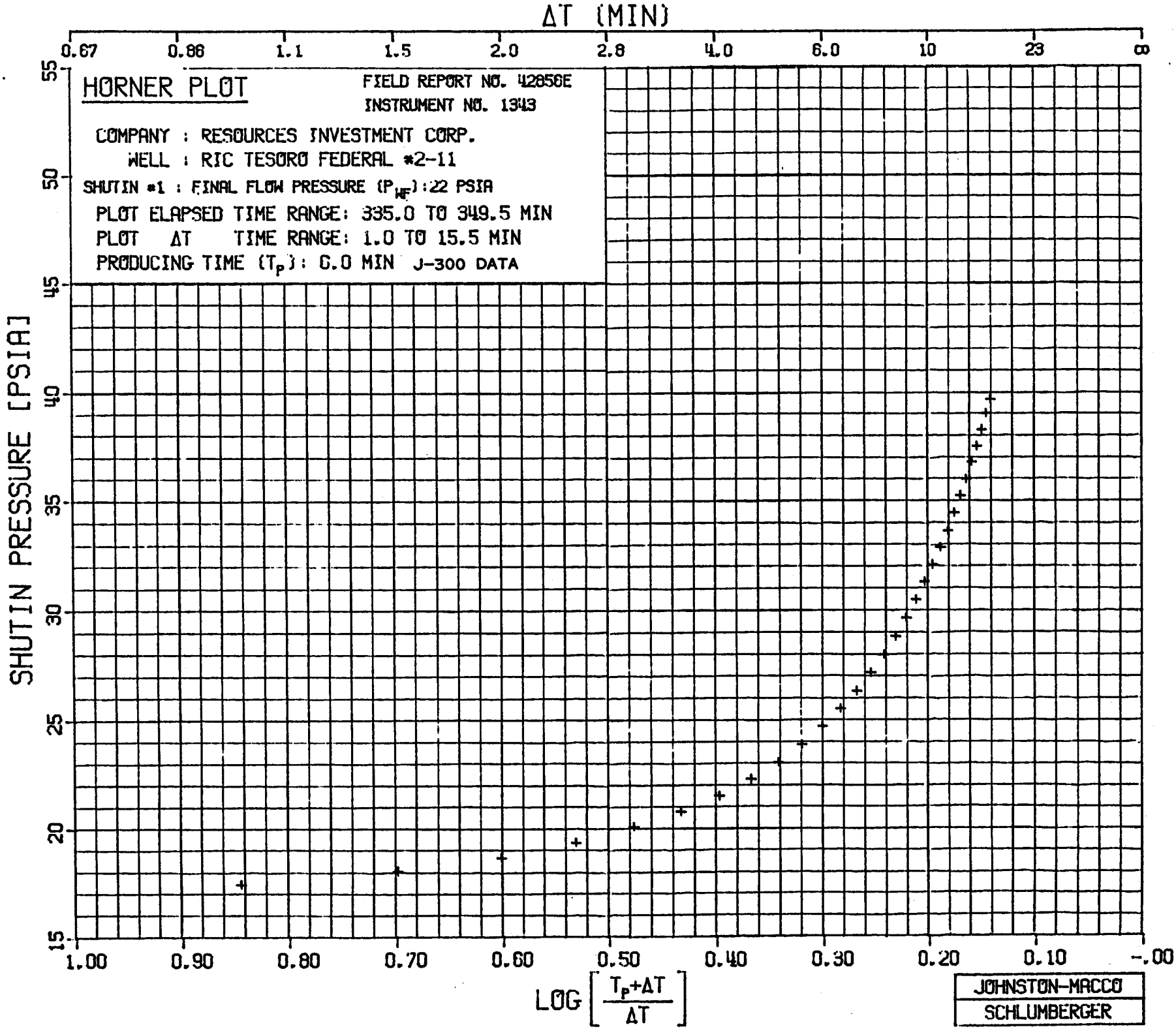
FLOW RATE: A FLOW RATE OF 7 BBLS/DAY OF LIQUID WAS NOTED DURING THIS TEST.

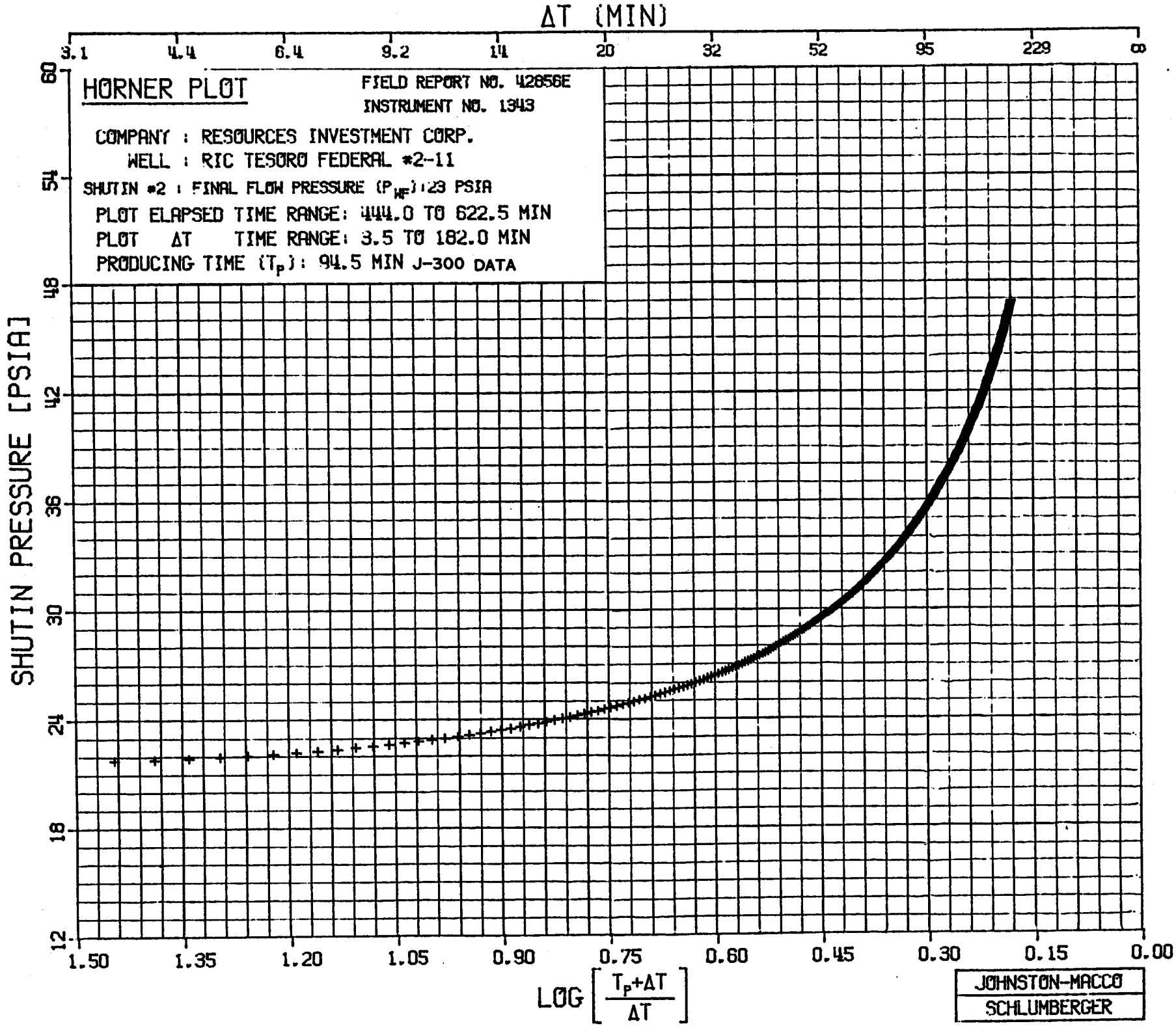
Gary Zolnosky (DH)
GARY ZOLNOSKY
DENVER RESERVOIR EVALUATION DEPARTMENT

RESOURCES INVESTMENT CORP.
RIC TESORO FEDERAL #2-11; SAN JUAN COUNTY
UTAH; SEC. 11 T38S R23E
6400' TO 6444'; TEST NO. 2

FIELD REPORT NO. 42856 E

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


ΔT (MIN)
0.67
0.86
1.1
1.5
2.0
2.8
4.0
6.0
10
23
∞
HORNER PLOT
FIELD REPORT NO. 42856E
INSTRUMENT NO. 1343
COMPANY : RESOURCES INVESTMENT CORP.
WELL : RIC TESORO FEDERAL #2-11
SHUTIN #1 : FINAL FLOW PRESSURE (P_{WF}):22 PSIA
PLOT ELAPSED TIME RANGE: 335.0 TO 349.5 MIN
PLOT ΔT TIME RANGE: 1.0 TO 15.5 MIN
PRODUCING TIME (T_P): 0.0 MIN J-300 DATA
SHUTIN PRESSURE [PSIA]
55
50
45
40
35
30
25
20
15
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
-.00
LOG $\left[\frac{T_P+\Delta T}{\Delta T}\right]$
JOHNSTON-MACCO
SCHLUMBERGER

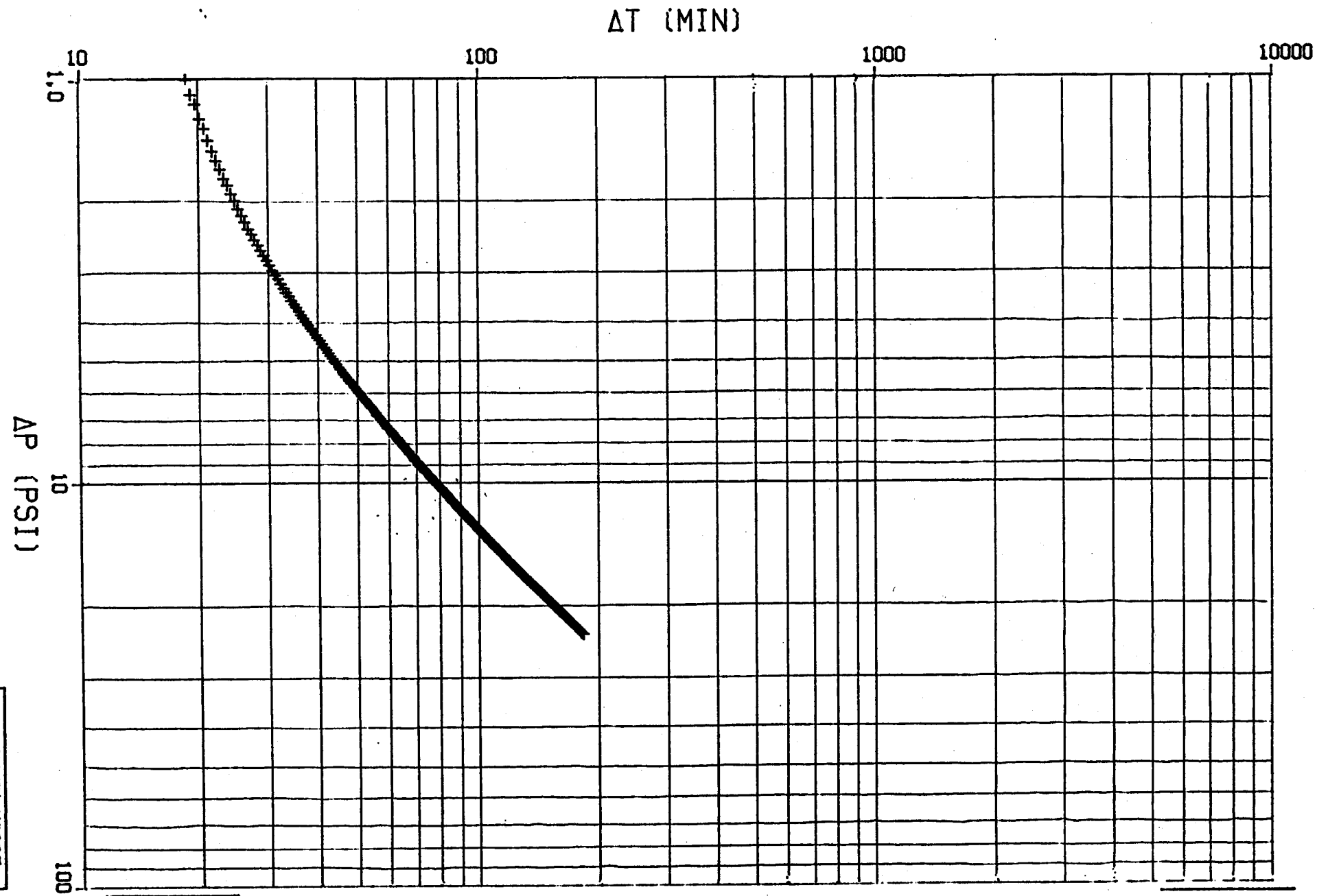

ΔT (MIN)
3.1
4.4
6.4
9.2
14
20
32
52
95
229
∞
HORNER PLOT
FIELD REPORT NO. 42856E
INSTRUMENT NO. 1343
COMPANY : RESOURCES INVESTMENT CORP.
WELL : RIC TESORO FEDERAL #2-11
SHUTIN #2 : FINAL FLOW PRESSURE (P_{WF}):23 PSIA
PLOT ELAPSED TIME RANGE: 444.0 TO 622.5 MIN
PLOT ΔT TIME RANGE: 3.5 TO 182.0 MIN
PRODUCING TIME (T_p): 94.5 MIN J-300 DATA
SHUTIN PRESSURE [PSIA]
60
54
48
42
36
30
24
18
12
1.50
1.35
1.20
1.05
0.90
0.75
0.60
0.45
0.30
0.15
0.00
LOG $\left[\frac{T_p+\Delta T}{\Delta T}\right]$
JOHNSTON-MACCO
SCHLUMBERGER

LOG LOG PLOT

J-300 DATA

COMPANY : RESOURCES INVESTMENT CORP.
WELL : RIC TESORO FEDERAL #2-11
FIELD REPORT NO. 42856E
INSTRUMENT NO. 1343

SHUTIN #2 :
FINAL FLOW PRESSURE (P_{WF}): 23 PSIA
PLOT ELAPSED TIME RANGE: 459.0 TO 622.5 MIN
PLOT ΔT TIME RANGE: 18.5 TO 182.0 MIN



JOHNSTON-MACCO
SCHLUMBERGER

TEST TICKET DATA PRINTOUT

WELL IDENTIFICATION

1.	WELL	RIC TESORO FEDERAL #2-11
2.	COMPANY	RESOURCES INVESTMENT CORPORATION
3.		555 - 17TH STREET, SUITE 3500
4.		DENVER, COLORADO 80207
5.	CUSTOMER	SAME
6.		
7.		
8.	FIELD	WILDCAT
9.	COUNTY	SAN JUAN
10.	STATE/PROV.	UTAH
11.	LOCATION	SEC. 11, T38S R23E
12.	TECHNICIAN	CRUMB (VERNAL)
13.	TEST APPROVED BY	MR. H.D. ARTHUR
14.	TEST DATE	04-21-82
15.	DEPTH REFERENCE	KELLY BUSHING
16.	DEPTH REFERENCE ELEVATION	S.L. 5556. FT

HOLE INFORMATION

1. THE HOLE IS STRAIGHT.

2.	TOTAL DEPTH	6444. FT
3.	OPEN HOLE DIAMETER	7.87 IN

MUD INFORMATION

1.	MUD TYPE	GEL-LIQ-DISPAC-CHEM
2.	MUD WEIGHT	9.4 LB/GAL
3.	MUD VISCOSITY	39. MARSH FUNNEL SEC
4.	CORRECTED WATER LOSS	9.6 CC/30 MIN
5.	MUD RESISTIVITY	1.60 OHM-M
6.	MUD RES. MEAS. TEMP.	52.0 DEG F
7.	MUD FILTRATE RESISTIVITY	1.30 OHM-M
8.	MUD FILT. RES. MEAS. TEMP.	53.0 DEG F
9.	MUD CHLORIDES CONTENT	1300.0 PPM BY WEIGHT

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*****************************
* TEST TICKET DATA PRINTOUT *
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TEST INFORMATION

1. FIELD REPORT NUMBER : 42856E
2. TEST TYPE : M.F.E. OPEN HOLE
3. TEST NUMBER : 2
4. TELEFLOW IN USE ? : NO
5. SSDR OR J-300 IN USE ? : YES
6. SPRO IN USE ? : NO
7. PTSDL IN USE ? : NO

TEST STRING INFORMATION

#	COMPONENT NAME	EFFECTIVE I.D. (IN)	EFFECTIVE O.D. (IN)	FLOW PATH LENGTH (FT)
1	DRILL PIPE	3.80	4.50	5814.
2	DRILL COLLARS	2.25	6.75	542.
3	TEST TOOL STRING	0.68	5.00	88.

TEST STRING PLACEMENT

1. TEST TYPE CODE 1 - ON BOTTOM
2. PACKER DEPTHS : 6395. FT & 6400. FT

TEST ZONE DESCRIPTION

FORMATION NAME	TOP (FT)	BOTTOM (FT)	PRODUCTION ZONE THICKNESS (FT)	POROSITY (%)
LOWER ISMAY			27.	

TEST CONDITIONS

1. BOTTOMHOLE CHOKE(S) EFF. INTERNAL DIA. : 0.68 IN

TEST TICKET DATA PRINTOUT

TEST TOOL SAMPLE CHAMBER RECOVERY DATA

SAMPLE PRESSURE	:	PSIG	
OIL GRAVITY	:	DEG. API @	DEG F
GAS/OIL RATIO	:	FT3/BBL	
GAS/LIQUID RATIO	:	FT3/BBL	

SAMPLE CHAMBER CONTENTS

FLUID	VOLUME		RESISTIVITY		CHLORIDES
GAS		FT3			
OIL		CC			
WATER		CC	OHM-M @	DEG F	PPM
MUD	250.0	CC	1.00 OHM-M @	62.0 DEG F	1300. PPM
TOTAL LIQUID	250.0	CC			

RECOVERY INFORMATION

	DESCRIPTION	FEET	% OIL	% H20	% OTH	API DEG.	API DEG.F	RESISTIVITY OHM-M	RESISTIVITY DEG.F	CHL PPM
1	DRILLING MUD	90			100			1.00	62	1300.

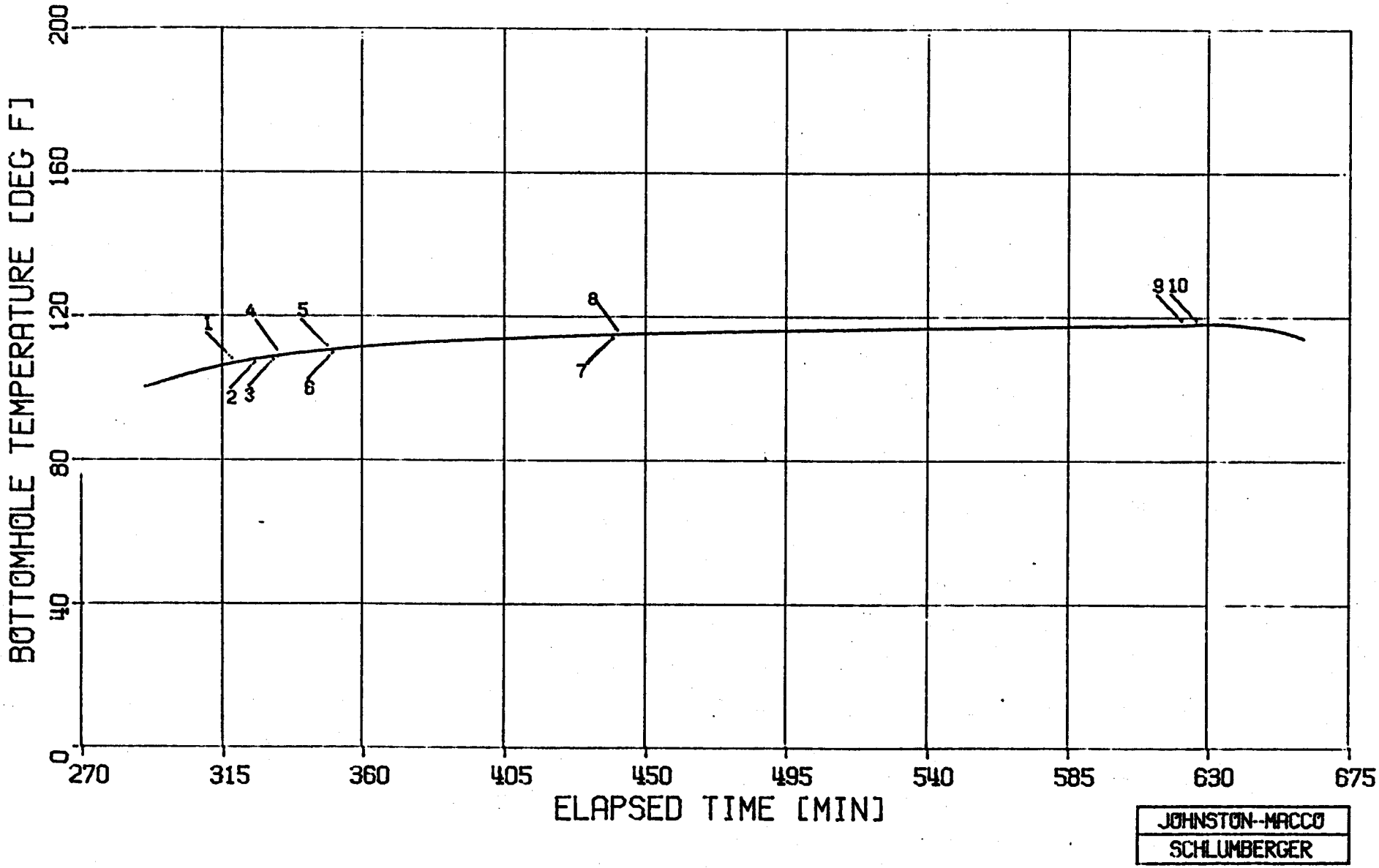
SURFACE INFORMATION

	DESCRIPTION	TIME	PRESSURE	CHOKE SIZE
1	SET PACKER	0456	-	-
2	OPENED TOOL	0459	-	1/4"
3	VERY SLIGHT BLOW		-	"
4	CLOSED FOR INITIAL SHUT-IN	0507	-	"
5	SLIGHT BLOW		-	"
6	FINISHED SHUT-IN	0522	-	"
7	WEAK SURFACE BLOW		-	"
8	RE-OPENED TOOL	0523	-	"
9	BLOW DIED FOR REMAINDER OF TEST	0528	-	"
10	CLOSED FOR FINAL SHUT-IN	0653	-	"
11	FINISHED SHUT-IN	0954	-	"
12	PULLED PACKER LOOSE	0957	-	-

BØTTØMHØLE TEMPERATURE LØG

FIELD REPØRT NØ. 42856E
INSTRUMENT NØ. 1343
DEPTH : 6376 FT

COMPANY : RESØURCES INVESTMENT CØRP.
WELL : RIC TESØRØ FEDERAL #2-11
J-300 DATA



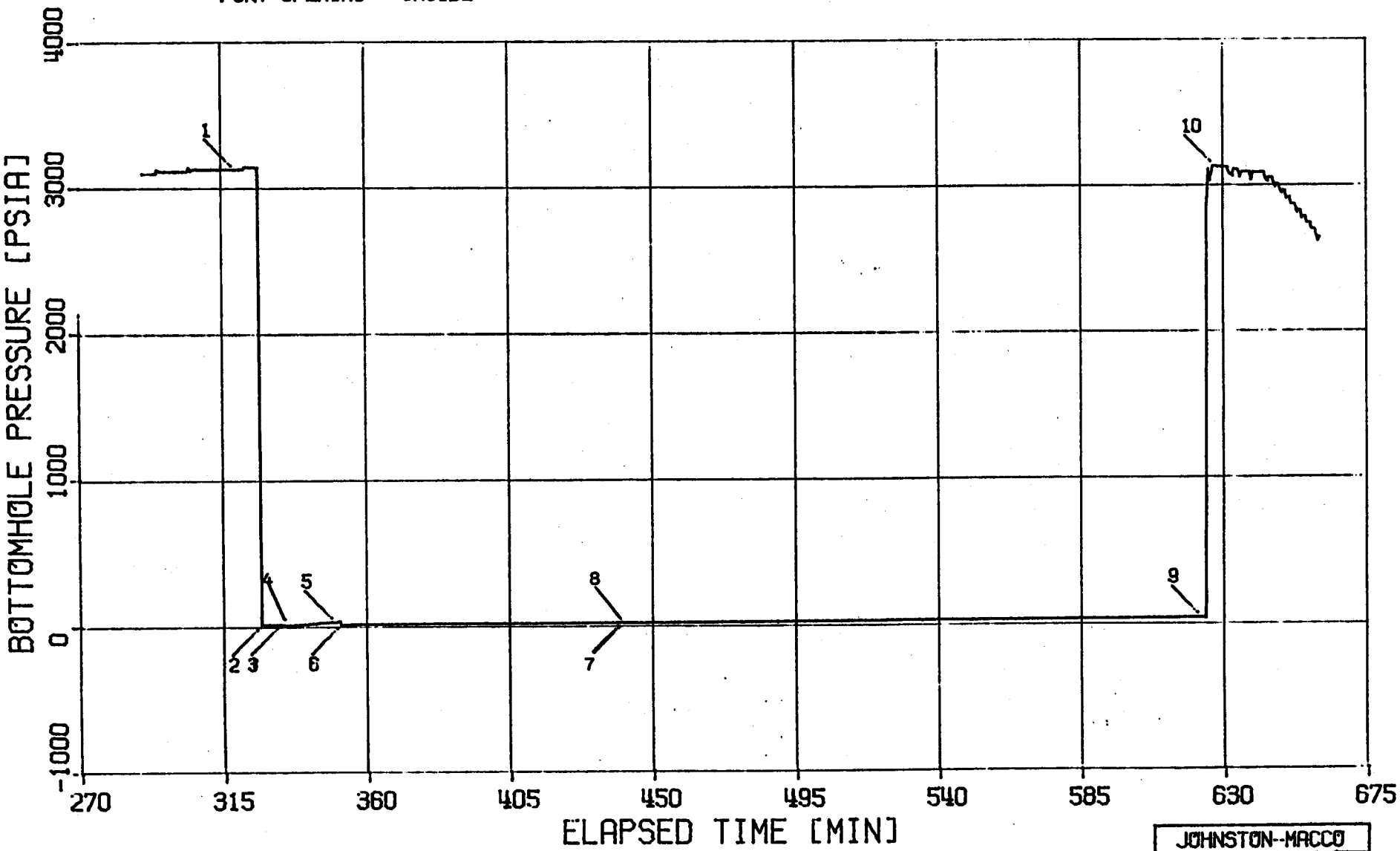
BOTTOMHOLE PRESSURE LOG

FIELD REPORT NO. 42856E
INSTRUMENT NO. 1343
DEPTH : 6376 FT
CAPACITY : 10000 PSI
PORT OPENING : INSIDE

COMPANY : RESOURCES INVESTMENT CORP.
WELL : RIC TESORO FEDERAL #2-11

J-300 DATA

R



JOHNSTON-MACCO
SCHLUMBERGER

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* WELL TEST DATA PRINTOUT *
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J-300 DATA

FIELD REPORT # : 42856E

COMPANY : RESOURCE INVESTMENT
WELL : RIC TESORO FED # 2-11

INSTRUMENT # : 1343
CAPACITY [PSI] : 10000.
DEPTH [FT] : 6376.0
PORT OPENING : INSIDE

LABEL POINT INFORMATION

#	TIME OF DAY HH:MM:SS	DATE DD-MM	EXPLANATION	ELAPSED TIME,MIN	BOT HOLE PRESSURE PSIA	BOT HOLE TEMP. DEG F
1	4:51:30	21-AP	HYDROSTATIC MUD	319.00	3129.76	107.1
2	4:59: 0	21-AP	START FLOW	326.50	20.68	108.2
3	5: 5: 0	21-AP	END FLOW	332.50	21.57	108.9
4	5: 6:30	21-AP	START SHUT-IN	334.00	12.52	109.1
5*	5:22: 0	21-AP	END SHUT-IN	349.50	39.71	110.7
6	5:24: 0	21-AP	START FLOW	351.50	21.67	110.9
7	6:52:30	21-AP	END FLOW	440.00	23.25	115.0
8	6:53: 0	21-AP	START SHUT-IN	440.50	19.13	115.0
9	9:55: 0	21-AP	END SHUT-IN	622.50	46.95	118.1
10	9:59:30	21-AP	HYDROSTATIC MUD	627.00	3128.14	118.3

SUMMARY OF FLOW PERIODS

PERIOD	START ELAPSED TIME,MIN	END ELAPSED TIME,MIN	DURATION MIN	START PRESSURE PSIA	END PRESSURE PSIA
1	326.50	332.50	6.00	20.68	21.57
2	351.50	440.00	88.50	21.67	23.25

SUMMARY OF SHUTIN PERIODS

PERIOD	START ELAPSED TIME,MIN	END ELAPSED TIME,MIN	DURATION MIN	START PRESSURE PSIA	END PRESSURE PSIA	FINAL FLOW PRESSURE PSIA	PRODUCING TIME, MIN
1	334.00	349.50	15.50	12.52	39.71	21.57	6.00
2	440.50	622.50	182.00	19.13	46.95	23.25	94.50

TEST PHASE : FLOW PERIOD # 1

TIME OF DAY HH:MM:SS	DATE DD-MM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA
4:59: 0	21-AP	326.50	0.00	108.2	20.68
5: 4: 0	21-AP	331.50	5.00	108.8	21.55
5: 5: 0	21-AP	332.50	6.00	108.9	21.57

TEST PHASE : SHUTIN PERIOD # 1
FINAL FLOW PRESSURE [PSIA] = 21.57
PRODUCING TIME [MIN] = 6.00

TIME OF DAY HH:MM:SS	DATE DD-MM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
5: 6:30	21-AP	334.00	0.00	109.1	12.52	-9.05	
5: 7:30	21-AP	335.00	1.00	109.2	17.46	-4.11	0.845
5: 8:30	21-AP	336.00	2.00	109.3	18.65	-2.92	0.602
5: 9:30	21-AP	337.00	3.00	109.4	20.06	-1.51	0.477
5:10:30	21-AP	338.00	4.00	109.6	21.53	-0.04	0.398
5:11:30	21-AP	339.00	5.00	109.7	23.07	1.50	0.342
5:12:30	21-AP	340.00	6.00	109.8	24.71	3.14	0.301
5:13:30	21-AP	341.00	7.00	109.9	26.34	4.77	0.269
5:14:30	21-AP	342.00	8.00	110.0	27.99	6.42	0.243
5:15:30	21-AP	343.00	9.00	110.1	29.66	8.09	0.222
5:16:30	21-AP	344.00	10.00	110.2	31.30	9.73	0.204
5:18:30	21-AP	346.00	12.00	110.4	34.46	12.89	0.176
5:20:30	21-AP	348.00	14.00	110.6	37.55	15.98	0.155
5:22: 0	21-AP	349.50	15.50	110.7	39.71	18.14	0.142

TEST PHASE : FLOW PERIOD # 2

TIME OF DAY HH:MM:SS	DATE DD-MM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA
5:24: 0	21-AP	351.50	0.00	110.9	21.67
5:29: 0	21-AP	356.50	5.00	111.3	21.97
5:34: 0	21-AP	361.50	10.00	111.7	22.08
5:39: 0	21-AP	366.50	15.00	112.1	22.15
5:44: 0	21-AP	371.50	20.00	112.4	22.28
5:49: 0	21-AP	376.50	25.00	112.7	22.37
5:54: 0	21-AP	381.50	30.00	112.9	22.47
5:59: 0	21-AP	386.50	35.00	113.2	22.56
6: 4: 0	21-AP	391.50	40.00	113.4	22.62
6: 9: 0	21-AP	396.50	45.00	113.6	22.69
6:14: 0	21-AP	401.50	50.00	113.8	22.76

TEST PHASE : FLOW PERIOD # 2

TIME OF DAY HH:MM:SS	DATE DD-MM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA
6:19: 0	21-AP	406.50	55.00	114.0	22.82
6:24: 0	21-AP	411.50	60.00	114.2	22.89
6:29: 0	21-AP	416.50	65.00	114.3	22.96
6:34: 0	21-AP	421.50	70.00	114.5	23.01
6:39: 0	21-AP	426.50	75.00	114.6	23.08
6:44: 0	21-AP	431.50	80.00	114.8	23.14
6:49: 0	21-AP	436.50	85.00	114.9	23.21
6:52:30	21-AP	440.00	88.50	115.0	23.25

TEST PHASE : SHUTIN PERIOD # 2
FINAL FLOW PRESSURE [PSIA] = 23.25
PRODUCING TIME [MIN] = 94.50

TIME OF DAY HH:MM:SS	DATE DD-MM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
6:53: 0	21-AP	440.50	0.00	115.0	19.13	-4.12	
6:54: 0	21-AP	441.50	1.00	115.1	21.49	-1.76	1.980
6:55: 0	21-AP	442.50	2.00	115.1	21.56	-1.69	1.683
6:56: 0	21-AP	443.50	3.00	115.1	21.70	-1.55	1.512
6:57: 0	21-AP	444.50	4.00	115.1	21.84	-1.41	1.391
6:58: 0	21-AP	445.50	5.00	115.2	21.98	-1.27	1.299
6:59: 0	21-AP	446.50	6.00	115.2	22.11	-1.14	1.224
7: 0: 0	21-AP	447.50	7.00	115.2	22.27	-0.98	1.161
7: 1: 0	21-AP	448.50	8.00	115.3	22.47	-0.78	1.108
7: 2: 0	21-AP	449.50	9.00	115.3	22.63	-0.62	1.061
7: 3: 0	21-AP	450.50	10.00	115.3	22.79	-0.46	1.019
7: 5: 0	21-AP	452.50	12.00	115.3	23.13	-0.12	0.948
7: 7: 0	21-AP	454.50	14.00	115.4	23.47	0.22	0.889
7: 9: 0	21-AP	456.50	16.00	115.4	23.83	0.58	0.839
7:11: 0	21-AP	458.50	18.00	115.5	24.16	0.91	0.796
7:13: 0	21-AP	460.50	20.00	115.5	24.50	1.25	0.758
7:15: 0	21-AP	462.50	22.00	115.6	24.83	1.58	0.724
7:17: 0	21-AP	464.50	24.00	115.6	25.16	1.91	0.694
7:19: 0	21-AP	466.50	26.00	115.7	25.49	2.24	0.666
7:21: 0	21-AP	468.50	28.00	115.7	25.81	2.56	0.641
7:23: 0	21-AP	470.50	30.00	115.7	26.13	2.88	0.618
7:28: 0	21-AP	475.50	35.00	115.9	26.92	3.67	0.568
7:33: 0	21-AP	480.50	40.00	115.9	27.69	4.44	0.527
7:38: 0	21-AP	485.50	45.00	116.1	28.48	5.23	0.491
7:43: 0	21-AP	490.50	50.00	116.2	29.24	5.99	0.461
7:48: 0	21-AP	495.50	55.00	116.2	29.98	6.73	0.434
7:53: 0	21-AP	500.50	60.00	116.3	30.71	7.46	0.411
7:58: 0	21-AP	505.50	65.00	116.4	31.45	8.20	0.390
8: 3: 0	21-AP	510.50	70.00	116.5	32.18	8.93	0.371
8: 8: 0	21-AP	515.50	75.00	116.6	32.90	9.65	0.354

TEST PHASE : SHUTIN PERIOD # 2
FINAL FLOW PRESSURE [PSIA] = 23.25
PRODUCING TIME [MIN] = 94.50

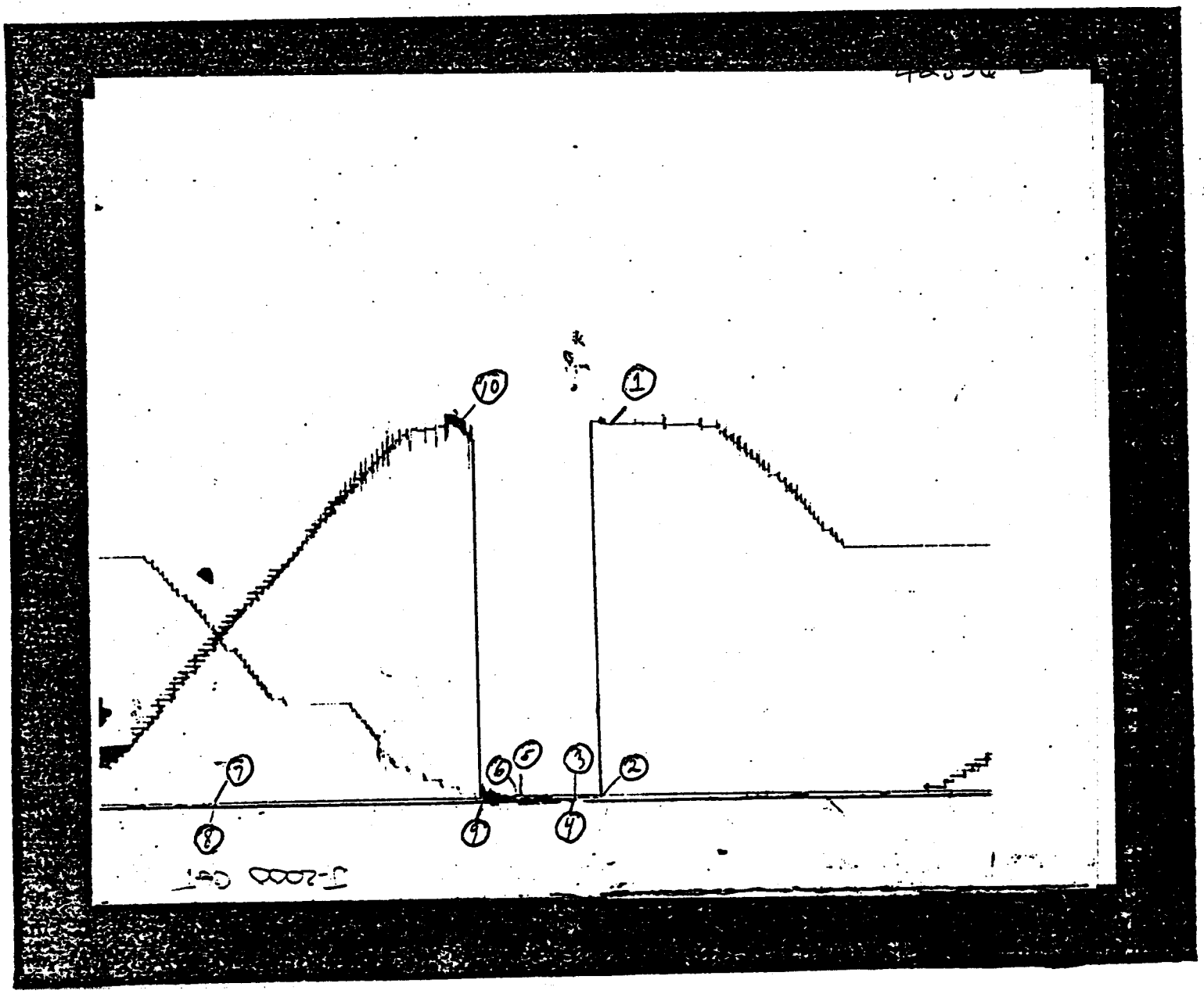
TIME OF DAY HH:MM:SS	DATE DD-MM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
8:13: 0	21-AP	520.50	80.00	116.7	33.61	10.36	0.339
8:18: 0	21-AP	525.50	85.00	116.8	34.35	11.10	0.325
8:23: 0	21-AP	530.50	90.00	116.8	35.04	11.79	0.312
8:28: 0	21-AP	535.50	95.00	116.9	35.73	12.48	0.300
8:33: 0	21-AP	540.50	100.00	117.0	36.42	13.17	0.289
8:38: 0	21-AP	545.50	105.00	117.1	37.12	13.87	0.279
8:43: 0	21-AP	550.50	110.00	117.2	37.77	14.52	0.269
8:48: 0	21-AP	555.50	115.00	117.2	38.43	15.18	0.260
8:53: 0	21-AP	560.50	120.00	117.3	39.07	15.82	0.252
8:58: 0	21-AP	565.50	125.00	117.4	39.73	16.48	0.245
9: 3: 0	21-AP	570.50	130.00	117.4	40.36	17.11	0.237
9: 8: 0	21-AP	575.50	135.00	117.5	41.01	17.76	0.230
9:13: 0	21-AP	580.50	140.00	117.6	41.63	18.38	0.224
9:18: 0	21-AP	585.50	145.00	117.6	42.26	19.01	0.218
9:23: 0	21-AP	590.50	150.00	117.7	42.89	19.64	0.212
9:28: 0	21-AP	595.50	155.00	117.7	43.52	20.27	0.207
9:33: 0	21-AP	600.50	160.00	117.8	44.16	20.91	0.202
9:38: 0	21-AP	605.50	165.00	117.9	44.80	21.55	0.197
9:43: 0	21-AP	610.50	170.00	117.9	45.44	22.19	0.192
9:48: 0	21-AP	615.50	175.00	118.0	46.08	22.83	0.188
9:53: 0	21-AP	620.50	180.00	118.1	46.72	23.47	0.183
9:55: 0	21-AP	622.50	182.00	118.1	46.95	23.70	0.182

BOTTOM HOLE PRESSURE AND TIME DATA

JOHNS Schlumberger

INSTRUMENT NUMBER	CAPACITY (P.S.I.)	DEPTH
J-2000	6400 P.S.I.	6418'
PORT OPENING	**BOTTOM HOLE TEMPERATURE**	**FIELD REPORT NUMBER**
OUTSIDE	120°F.	42856 E

DESCRIPTION	LABELED POINTS	PRESSURE (PSIA)	GIVEN TIME	COMPUTED TIME
INITIAL HYDROSTATIC MUD	1	3148		
INITIAL FLOW (1)	2	46		
INITIAL FLOW (2)	3	48	5	
INITIAL SHUT-IN	5	65	15	
SECOND FLOW (1)				
SECOND FLOW (2)				
SECOND SHUT-IN				
FINAL FLOW (1)	6	55		
FINAL FLOW (2)	7	46	90	
FINAL SHUT-IN	9	71	181	
FINAL HYDROSTATIC MUD	10	3165		
REMARKS: START SHUT-IN	4	41		
START SHUT-IN	8	40		



JS-165

MINERALS MANAGEMENT SERVICE
RECEIVED
MAY 3 1982
SUB-DISTRICT
NEWCASTLE, WYOMING

J-300 DATA

JOHNSTON

Schlumberger

computerized data analysis

COMPANY RESOURCES INVESTMENT CORPORATION WELL RIC TESORO FEDERAL #2-11 TEST NO. 1 COUNTY SAN JUAN STATE UTAH

FIELD REPORT #42854 E

Reservoir Engineering Data

JOHNSTON

Recorder No. J-1117 Field Report No. 42854 E

Damage Ratio	DR	.98		Effective Transmissibility TO OIL	$\frac{Kh}{\mu B}$	2.75	$\frac{Md\text{-}ft.}{Cp.}$
Maximum Reservoir Pressure ESTIMATED	P_o	2750	P.S.I.A.	Effective Transmissability	$\frac{Kh}{\mu B}$	—	$\frac{Md\text{-}ft.}{Cp.}$
Slope of Shut-in Curve CALCULATED	M	964	PSI/log cycle	Flow Rate OIL	Q	12	Bbl./day
Potentiometric Surface (Datum Plane, Sea Level)	PS	5555	ft.	Pressure Gradient ESTIMATED		.433	PSI ft.
Productivity Index	PI	.004	Bbl./day/PSI	Gas Oil Ratio ESTIMATED	GOR	750	CF/Bbl.
Radius of Investigation		13	ft.	K (Effective to OIL)		.09	Md.

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:

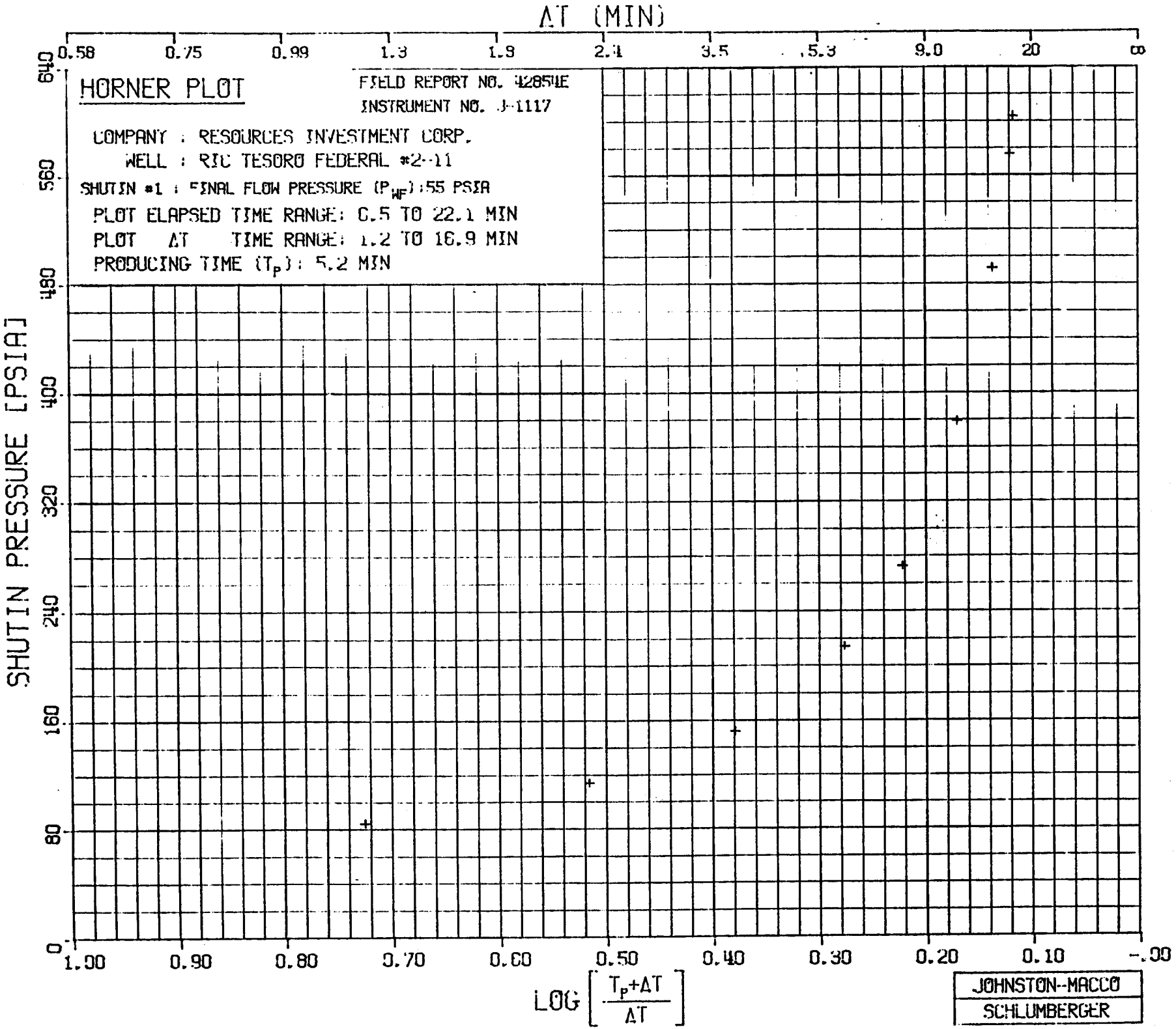
Effective permeability, K, will fall between	1 to 200 md
Formation porosity, ϕ, will fall between	0.1 to 0.3
Fluid compressibility, c, will fall between	10^{-6} to 10^{-4}
Fluid viscosity, μ, will fall between	0.05 to 50 cp.
Well bore radius, r_w, will fall between	$3\frac{7}{8}$" to $4\frac{3}{8}$"
Which gives an average value for the function $\log \frac{K}{\phi \mu c r_w^2}$ of	5.5

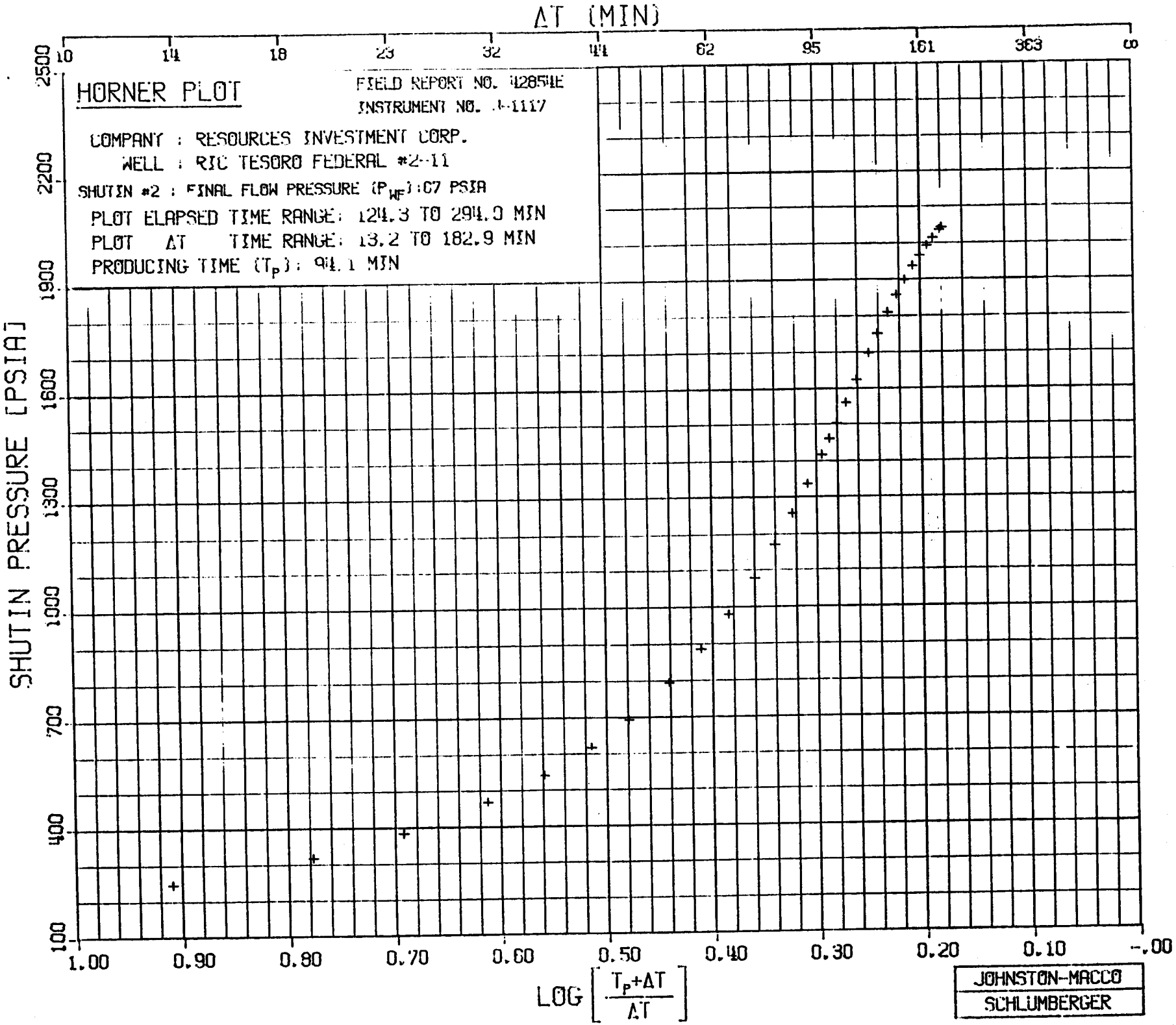
6. Other standard radial flow, equilibrium assumptions.

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 $J = \frac{7.08 \times 10^{-3}\ Kh}{\mu\beta \ln (r_e/r_w)}$ Assumed $\ln (r_e/r_w) = 7.60$
4. P.S. = [P_o × 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.

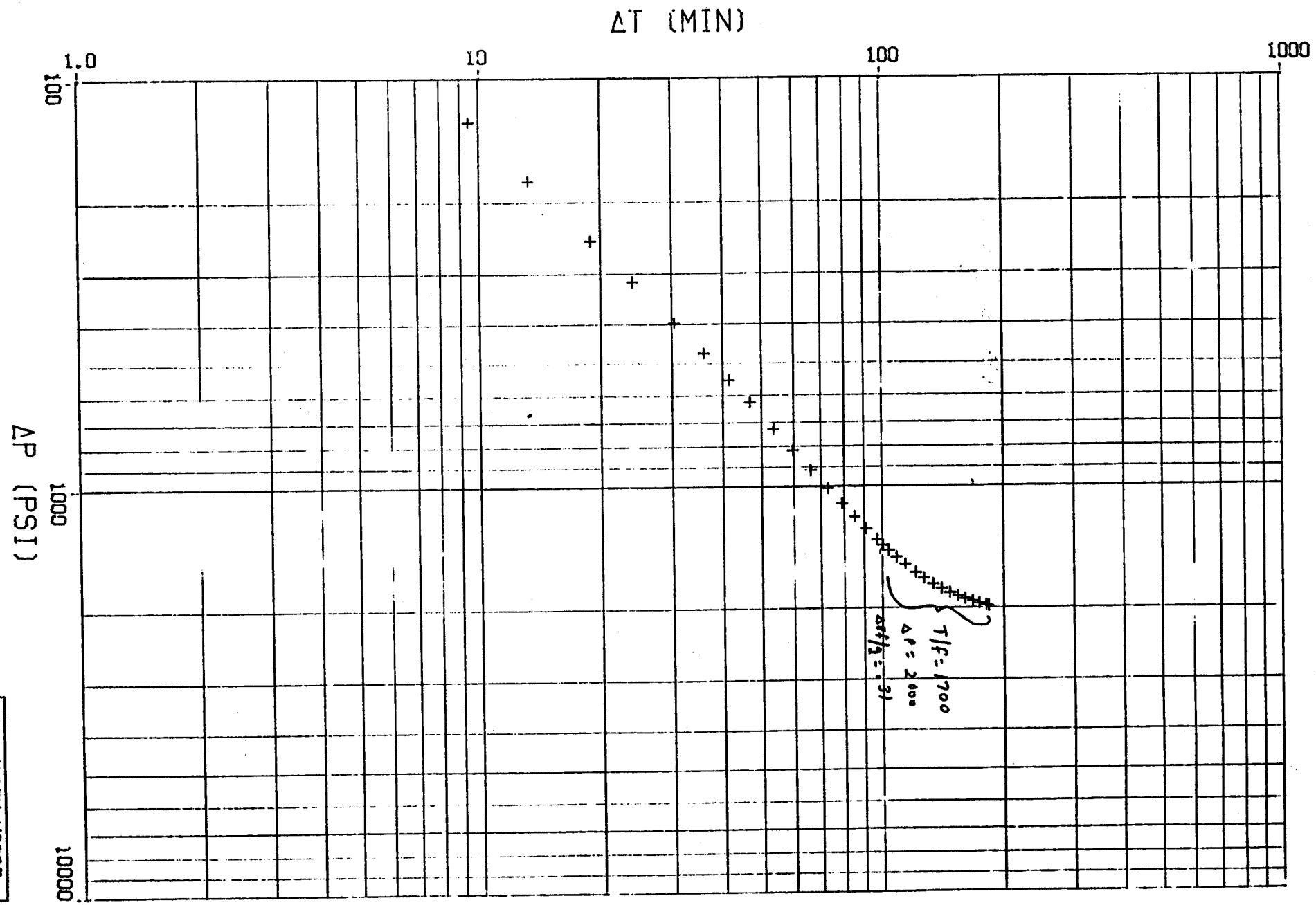

ΔT (MIN)
0.58
0.75
0.99
1.3
1.9
2.4
3.5
5.3
9.0
20
∞
HORNER PLOT
FIELD REPORT NO. 42854E
INSTRUMENT NO. J-1117
COMPANY : RESOURCES INVESTMENT CORP.
WELL : RIO TESORO FEDERAL #2-11
SHUTIN #1 : FINAL FLOW PRESSURE (P_{WF}):55 PSIA
PLOT ELAPSED TIME RANGE: 0.5 TO 22.1 MIN
PLOT ΔT TIME RANGE: 1.2 TO 16.9 MIN
PRODUCING TIME (T_P): 5.2 MIN
SHUTIN PRESSURE [PSIA]
640
560
480
400
320
240
160
80
0
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
-.00
LOG $\left[\frac{T_P+\Delta T}{\Delta T}\right]$
JOHNSTON-MACCO
SCHLUMBERGER


ΔT (MIN)
10
14
18
23
32
44
62
95
161
363
∞
HORNER PLOT
FIELD REPORT NO. 42854E
INSTRUMENT NO. 4-1117
COMPANY : RESOURCES INVESTMENT CORP.
WELL : RIC TESORO FEDERAL #2-11
SHUTIN #2 : FINAL FLOW PRESSURE (P_{WF}):67 PSIA
PLOT ELAPSED TIME RANGE: 124.3 TO 294.0 MIN
PLOT ΔT TIME RANGE: 13.2 TO 182.9 MIN
PRODUCING TIME (T_p): 94.1 MIN
SHUTIN PRESSURE [PSIA]
2500
2200
1900
1600
1300
1000
700
400
100
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
-.00
LOG $\left[\frac{T_p+\Delta T}{\Delta T}\right]$
JOHNSTON-MACCO
SCHLUMBERGER

LOG LOG PLOT

COMPANY : RESOURCES INVESTMENT CORP.
WELL : RIC TESORO FEDERAL #2-11
FIELD REPORT NO. 42854E
INSTRUMENT NO. 1-1117

SHUTIN #2 :
FINAL FLOW PRESSURE (P_{WF}): 67 PSIA
PLOT ELAPSED TIME RANGE: 120.5 TO 294.0 MIN
PLOT ΔT TIME RANGE: 9.4 TO 182.9 MIN



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JS-166

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Schlumberger

COMPUTERIZED DATA ANALYSIS

APRIL 23, 1982

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 AN ADEQUATE SHUT-IN BUILD-UP DID OCCUR FOR QUANTITATIVE ANALYSIS. AFTERFLOW WAS STILL IN EFFECT ON THE INITIAL SHUT-IN BUILD-UP TO THE EXTENT THAT THE PLOT IS CONSIDERED UNRELIABLE FOR ANALYSIS. RESERVOIR PARAMETERS WERE CALCULATED BY THE MCKINLEY METHOD. DUE TO THE LIMITED BUILD-UP PRESSURE DATA, ALL FIGURES SHOULD BE USED AS INDICATORS ONLY.

1. FLOW RATE: A FLOW RATE OF 12 BBLS/DAY OF OIL WAS NOTED DURING THIS TEST. (ASSUMING ALL LIQUID FLOW TO BE OIL).

2. RESERVOIR PRESSURE: MAXIMUM RESERVOIR PRESSURE WAS ESTIMATED TO BE 2750 P.S.I.A. AT RECORDER DEPTH USING A .433 P.S.I./FT. FLUID GRADIENT.

3. PERMEABILITY: THE CALCULATED TRANSMISSIBILITY FACTOR OF 2.75 MD.-FT./CP. INDICATES AN AVERAGE EFFECTIVE PERMEABILITY TO OIL OF .09 MD. FOR THE REPORTED 22 FOOT NET INTERVAL. THE CALCULATIONS WERE BASED ON A MCKINLEY SLOPE OF 964 P.S.I./LOG CYCLE OBTAINED FROM THE FINAL SHUT-IN BUILD-UP PLOT. IT WAS ASSUMED FOR THESE CALCULATIONS: (A) THE 39.5°API AT 60°F. OIL CONTAINED 750 CU.FT./BBL. OF ORIGINAL DISSOLVED GAS, (B) VISCOSITY .72 CP., (C) FORMATION VOLUME FACTOR 1.36 BBL/BBL. THESE FIGURES WERE OBTAINED FROM THE AVAILABLE TECHNICAL LITERATURE.

4. WELLBORE DAMAGE: THE CALCULATED DAMAGE RATIO OF .98 INDICATES THAT NO 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 13 FEET BASED ON AN ASSUMED POROSITY OF 10%, COMPRESSIBILITY OF 12.2×10^{-6}, AND OTHER ASSUMPTIONS MADE IN NUMBER 3 ABOVE.

6. GENERAL COMMENTS: THE FORMATION EXHIBITS THE CHARACTERISTICS OF RELATIVELY LOW PERMEABILITY EFFECTIVE TO THE RESERVOIR FLUID AND INDICATES THE ABSENCE OF WELLBORE DAMAGE.

Gary Zolnosky (WH)
GARY ZOLNOSKY
DENVER RESERVOIR EVALUATION DEPARTMENT

RESOURCES INVESTMENT CORPORATION
RIC TESORO FEDERAL #2-11; SAN JUAN COUNTY
UTAH; SEC. 11 T38S R23E
6340' TO 6400'; TEST NO. 1

FIELD REPORT NO.: 42854 E

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.

* TEST TICKET DATA PRINTOUT *

WELL IDENTIFICATION

1.	WELL	: RIC TESORO FEDERAL #2-11
2.	COMPANY	: RESOURCES INVESTMENT CORPORATION
3.		: 555 - 17TH STREET, SUITE 3500
4.		: DENVER, COLORADO 80207
5.	CUSTOMER	: SAME
6.		:
7.		:
8.	FIELD	: WILDCAT
9.	COUNTY	: SAN JUAN
10.	STATE/PROV.	: UTAH
11.	LOCATION	: SEC. 11, T38S R23E
12.	TECHNICIAN	: KOERNER (VERNAL)
13.	TEST APPROVED BY	: MR. H.D. ARTHUR
14.	TEST DATE	: 04-19-82
15.	DEPTH REFERENCE	: KELLY BUSHING
16.	DEPTH REFERENCE ELEVATION	: S.L. 5556. FT

HOLE INFORMATION

1. THE HOLE IS STRAIGHT.

2.	TOTAL DEPTH	: 6400. FT
3.	OPEN HOLE DIAMETER	: 7.87 IN

MUD INFORMATION

1.	MUD TYPE	: GEL-LIQ-DISPOC-CHEM
2.	MUD WEIGHT	: 9.4 LB/GAL
3.	MUD VISCOSITY	: 39. MARSH FUNNEL SEC
4.	CORRECTED WATER LOSS	: 9.6 CC/30 MIN
5.	MUD RESISTIVITY	: 2.20 OHM-M
6.	MUD RES. MEAS. TEMP.	: 50.0 DEG F
7.	MUD FILTRATE RESISTIVITY	: 1.40 OHM-M
8.	MUD FILT. RES. MEAS. TEMP.	: 62.0 DEG F
9.	MUD CHLORIDES CONTENT	: 1300.0 PPM BY WEIGHT

TEST TICKET DATA PRINTOUT

TEST INFORMATION

1. FIELD REPORT NUMBER : 42854E
2. TEST TYPE : M.F.E. OPEN HOLE
3. TEST NUMBER : 1
4. TELEFLOW IN USE ? : NO
5. SSDR OR J-300 IN USE ? : NO
6. SPRO IN USE ? : NO
7. PTSDL IN USE ? : NO

TEST STRING INFORMATION

#	COMPONENT NAME	EFFECTIVE I.D. (IN)	EFFECTIVE O.D. (IN)	FLOW PATH LENGTH (FT)
1	DRILL PIPE	3.80	4.50	5755.
2	DRILL COLLARS	2.25	6.75	542.
3	TEST TOOL STRING	0.93	5.00	103.

TEST STRING PLACEMENT

1. TEST TYPE CODE 1 - ON BOTTOM
2. PACKER DEPTHS : 6335. FT & 6340. FT

TEST ZONE DESCRIPTION

FORMATION NAME	TOP (FT)	BOTTOM (FT)	PRODUCTION ZONE THICKNESS (FT)	POROSITY (%)
LOWER ISMAY			22.	

TEST CONDITIONS

1. BOTTOMHOLE CHOKE(S) EFF. INTERNAL DIA. : 0.93 IN

TEST TICKET DATA PRINTOUT

TEST TOOL SAMPLE CHAMBER RECOVERY DATA

SAMPLE PRESSURE : 60. PSIG
OIL GRAVITY : 39.5 DEG. API @ 60.0 DEG F
GAS/OIL RATIO : 159. FT3/BBL
GAS/LIQUID RATIO : 159. FT3/BBL

SAMPLE CHAMBER CONTENTS

FLUID	VOLUME	RESISTIVITY	CHLORIDES
GAS	0.15 FT3		
OIL	150.0 CC		
WATER	CC	OHM-M @ DEG F	PPM
MUD	1150.0 CC	1.30 OHM-M @ 60.0 DEG F	1300. PPM
TOTAL LIQUID	1300.0 CC		

RECOVERY INFORMATION

	DESCRIPTION	FEET	% OIL	% H20	% OTH	API DEG.	API DEG.F	RESISTIVITY OHM-M	RESISTIVITY DEG.F	CHL PPM
1	SLIGHTLY OIL CUT MUD (FOOTAGE NOT AVAILABLE DUE TO REVERSING OUT)									

SURFACE INFORMATION

	DESCRIPTION	TIME	PRESSURE	CHOKE SIZE
1	SET PACKER	1327	-	-
2	OPENED TOOL	1329	-	1/4"
3	BLOW, 1/2" IN WATER		-	"
4	BLOW, 1" IN WATER	1330	-	"
5	CLOSED FOR INITIAL SHUT-IN	1335	-	"
6	BLOW, 2" IN WATER		-	"
7	FINISHED SHUT-IN	1350	-	"
8	RE-OPENED TOOL	1352	-	"
9	BLOW, 9" IN WATER		-	"
10		1357	5.0 OZ	"
11		1402	7.0 "	"
12		1413	10.0 "	"
13		1420	11.5 "	"
14		1430	11.5 "	"

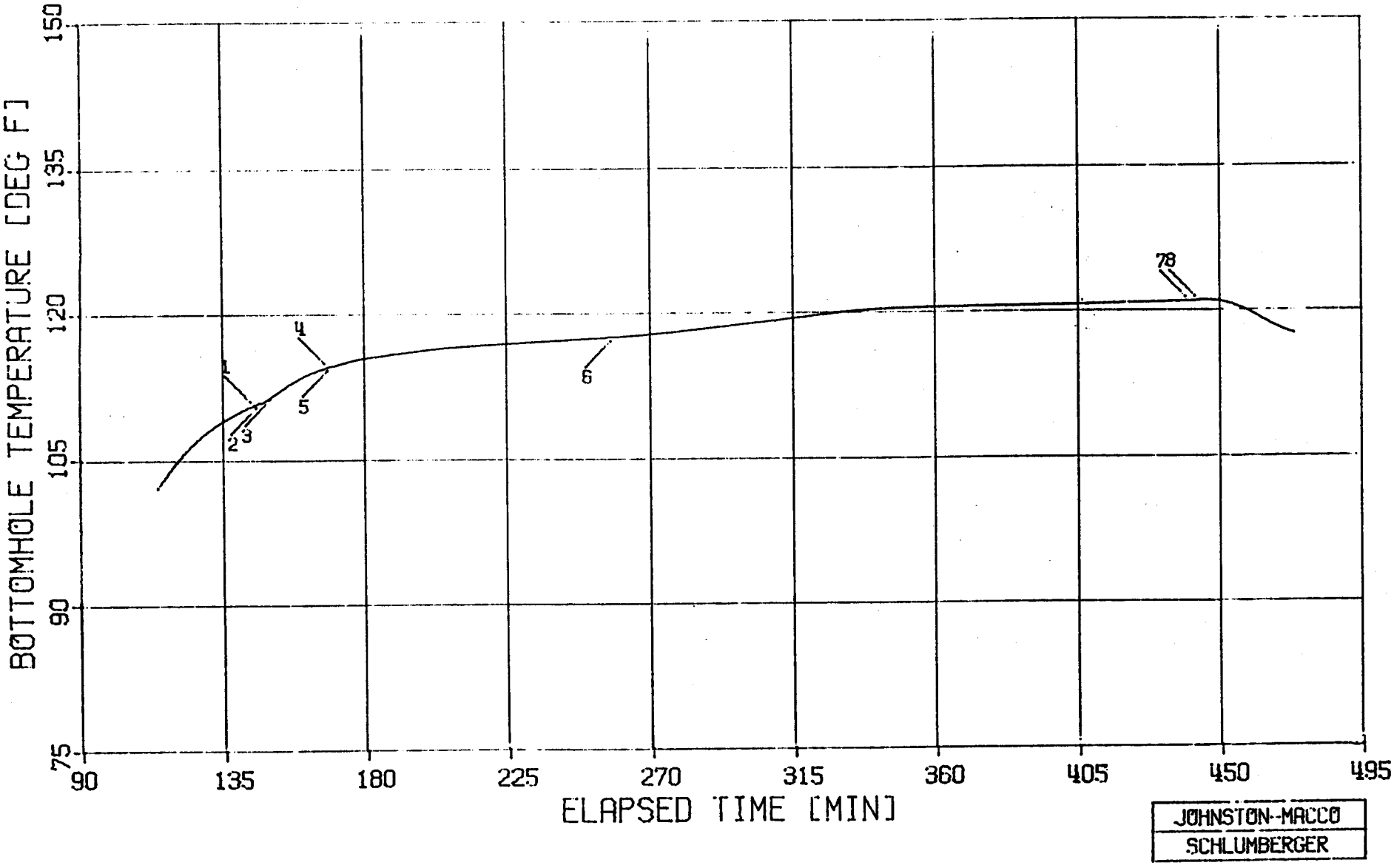
****
* TEST TICKET DATA PRINTOUT *
****

	DESCRIPTION	TIME	PRESSURE	CHOKE SIZE
15		1435	12.5 "	"
16		1448	13.5 "	"
17		1457	14.0 "	"
18	CLOSED FOR FINAL SHUT-IN	1523	14.5 "	"
19	FINISHED SHUT-IN	1823	-	"
20	PULLED PACKER LOOSE	1825	-	-
21	STARTED REVERSING	1855	-	-
22	FINISHED REVERSING	1930	-	-

BOTTOMHOLE TEMPERATURE LOG

FIELD REPORT NO. 42854E
INSTRUMENT NO. 1343
DEPTH : 6316 FT

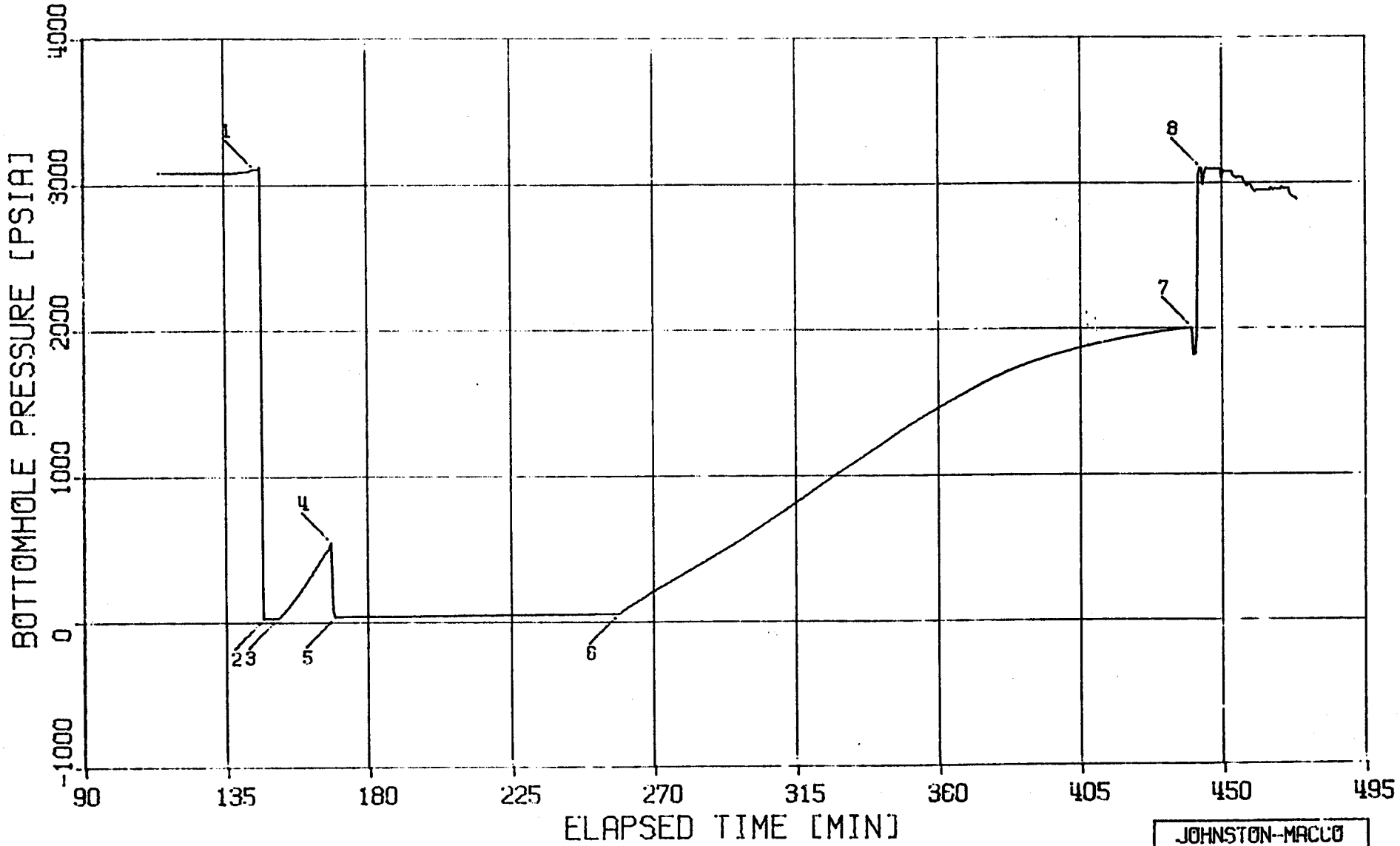
COMPANY : RESOURCES INVESTMENT CORP.
WELL : RIC TESORO FEDERAL #2-11
J-300 DATA



BOTTOMHOLE PRESSURE LOG

FIELD REPORT NO. 42854E
INSTRUMENT NO. 1343
DEPTH : 6316 FT
CAPACITY : 10000 PSI
PORT OPENING : INSIDE

COMPANY : RESOURCES INVESTMENT CORP.
WELL : RIC TESORO FEDERAL #2-11
J-300 DATA



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****
* WELL TEST DATA PRINTOUT *
****

J-300 DATA

FIELD REPORT # : 42854E

COMPANY : RESOURCES INVESTMENT CORP.
WELL : RIC TESORO FEDERAL #2-11

INSTRUMENT # : 1343
CAPACITY [PSI] : 10000.
DEPTH [FT] : 6316.0
PORT OPENING : INSIDE

LABEL POINT INFORMATION
****

#	TIME OF DAY HH:MM:SS	DATE DD-MM	EXPLANATION	ELAPSED TIME,MIN	BOT HOLE PRESSURE PSIA	BOT HOLE TEMP. DEG F
1	13:27:30	19-AP	HYDROSTATIC MUD	144.50	3108.72	110.7
2	13:29:30	19-AP	START FLOW	146.50	28.93	110.9
3	13:34: 0	19-AP	END FLOW & START SHUT-IN	151.00	33.62	111.8
4	13:51: 0	19-AP	END SHUT-IN	168.00	552.13	114.6
5	13:52: 0	19-AP	START FLOW	169.00	38.98	114.7
6	15:21:30	19-AP	END FLOW & START SHUT-IN	258.50	55.19	117.5
7	18:23: 0	19-AP	END SHUT-IN	440.00	2006.55	120.9
8	18:26: 0	19-AP	HYDROSTATIC MUD	443.00	3102.46	121.0

SUMMARY OF FLOW PERIODS
****

PERIOD	START ELAPSED TIME,MIN	END ELAPSED TIME,MIN	DURATION MIN	START PRESSURE PSIA	END PRESSURE PSIA
1	146.50	151.00	4.50	28.93	33.62
2	169.00	258.50	89.50	38.98	55.19

SUMMARY OF SHUTIN PERIODS
****

PERIOD	START ELAPSED TIME,MIN	END ELAPSED TIME,MIN	DURATION MIN	START PRESSURE PSIA	END PRESSURE PSIA	FINAL FLOW PRESSURE PSIA	PRODUCING TIME, MIN
1	151.00	168.00	17.00	33.62	552.13	33.62	4.50
2	258.50	440.00	181.50	55.19	2006.55	55.19	94.00

TEST PHASE : FLOW PERIOD # 1

TIME OF DAY HH:MM:SS	DATE DD-MM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA
13:29:30	19-AP	146.50	0.00	110.9	28.93
13:34: 0	19-AP	151.00	4.50	111.8	33.62

TEST PHASE : SHUTIN PERIOD # 1
FINAL FLOW PRESSURE [PSIA] = 33.62
PRODUCING TIME [MIN] = 4.50

TIME OF DAY HH:MM:SS	DATE DD-MM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
13:34: 0	19-AP	151.00	0.00	111.8	33.62	0.00	
13:35: 0	19-AP	152.00	1.00	112.0	48.26	14.64	0.740
13:36: 0	19-AP	153.00	2.00	112.2	70.75	37.13	0.512
13:37: 0	19-AP	154.00	3.00	112.4	94.65	61.03	0.398
13:38: 0	19-AP	155.00	4.00	112.7	120.76	87.14	0.327
13:39: 0	19-AP	156.00	5.00	112.9	148.06	114.44	0.279
13:40: 0	19-AP	157.00	6.00	113.1	177.11	143.49	0.243
13:41: 0	19-AP	158.00	7.00	113.3	207.21	173.59	0.216
13:42: 0	19-AP	159.00	8.00	113.4	238.39	204.77	0.194
13:43: 0	19-AP	160.00	9.00	113.6	270.96	237.34	0.176
13:44: 0	19-AP	161.00	10.00	113.8	304.28	270.66	0.161
13:46: 0	19-AP	163.00	12.00	114.0	372.26	338.64	0.138
13:48: 0	19-AP	165.00	14.00	114.3	441.63	408.01	0.121
13:50: 0	19-AP	167.00	16.00	114.5	500.21	466.59	0.108
13:51: 0	19-AP	168.00	17.00	114.6	552.13	518.51	0.102

TEST PHASE : FLOW PERIOD # 2

TIME OF DAY HH:MM:SS	DATE DD-MM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA
13:52: 0	19-AP	169.00	0.00	114.7	38.98
13:57: 0	19-AP	174.00	5.00	115.1	44.27
14: 2: 0	19-AP	179.00	10.00	115.4	44.60
14: 7: 0	19-AP	184.00	15.00	115.7	44.32
14:12: 0	19-AP	189.00	20.00	115.9	44.04
14:17: 0	19-AP	194.00	25.00	116.0	45.57
14:22: 0	19-AP	199.00	30.00	116.2	46.50
14:27: 0	19-AP	204.00	35.00	116.4	47.38
14:32: 0	19-AP	209.00	40.00	116.5	48.22
14:37: 0	19-AP	214.00	45.00	116.7	49.03
14:42: 0	19-AP	219.00	50.00	116.8	49.84

TEST PHASE : FLOW PERIOD # 2

TIME OF DAY HH:MM:SS	DATE DD-MM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA
14:47: 0	19-AP	224.00	55.00	116.9	50.84
14:52: 0	19-AP	229.00	60.00	117.0	51.71
14:57: 0	19-AP	234.00	65.00	117.1	52.16
15: 2: 0	19-AP	239.00	70.00	117.2	52.68
15: 7: 0	19-AP	244.00	75.00	117.2	53.34
15:12: 0	19-AP	249.00	80.00	117.3	53.89
15:17: 0	19-AP	254.00	85.00	117.4	54.57
15:21:30	19-AP	258.50	89.50	117.5	55.19

TEST PHASE : SHUTIN PERIOD # 2
FINAL FLOW PRESSURE [PSIA] = 55.19
PRODUCING TIME [MIN] = 94.00

TIME OF DAY HH:MM:SS	DATE DD-MM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
15:21:30	19-AP	258.50	0.00	117.5	55.19	0.00	
15:22:30	19-AP	259.50	1.00	117.5	70.98	15.79	1.978
15:23:30	19-AP	260.50	2.00	117.5	85.70	30.51	1.681
15:24:30	19-AP	261.50	3.00	117.6	99.94	44.75	1.510
15:25:30	19-AP	262.50	4.00	117.6	113.74	58.55	1.389
15:26:30	19-AP	263.50	5.00	117.6	127.28	72.09	1.297
15:27:30	19-AP	264.50	6.00	117.6	140.55	85.36	1.222
15:28:30	19-AP	265.50	7.00	117.7	153.73	98.54	1.159
15:29:30	19-AP	266.50	8.00	117.7	166.78	111.59	1.106
15:30:30	19-AP	267.50	9.00	117.7	179.65	124.46	1.059
15:31:30	19-AP	268.50	10.00	117.7	192.44	137.25	1.017
15:33:30	19-AP	270.50	12.00	117.8	217.77	162.58	0.946
15:35:30	19-AP	272.50	14.00	117.9	242.85	187.66	0.887
15:37:30	19-AP	274.50	16.00	117.9	267.89	212.70	0.837
15:39:30	19-AP	276.50	18.00	118.0	292.82	237.63	0.794
15:41:30	19-AP	278.50	20.00	118.1	317.77	262.58	0.756
15:43:30	19-AP	280.50	22.00	118.2	343.00	287.81	0.722
15:45:30	19-AP	282.50	24.00	118.2	368.25	313.06	0.692
15:47:30	19-AP	284.50	26.00	118.3	393.75	338.56	0.664
15:49:30	19-AP	286.50	28.00	118.4	419.52	364.33	0.639
15:51:30	19-AP	288.50	30.00	118.5	445.36	390.17	0.616
15:56:30	19-AP	293.50	35.00	118.6	510.16	454.97	0.567
16: 1:30	19-AP	298.50	40.00	118.8	578.45	523.26	0.525
16: 6:30	19-AP	303.50	45.00	119.0	650.44	595.25	0.490
16:11:30	19-AP	308.50	50.00	119.2	724.14	668.95	0.459
16:16:30	19-AP	313.50	55.00	119.4	798.81	743.62	0.433
16:21:30	19-AP	318.50	60.00	119.6	873.95	818.76	0.409
16:26:30	19-AP	323.50	65.00	119.8	949.02	893.83	0.388
16:31:30	19-AP	328.50	70.00	120.0	1023.86	968.67	0.370
16:36:30	19-AP	333.50	75.00	120.1	1098.00	1042.81	0.353

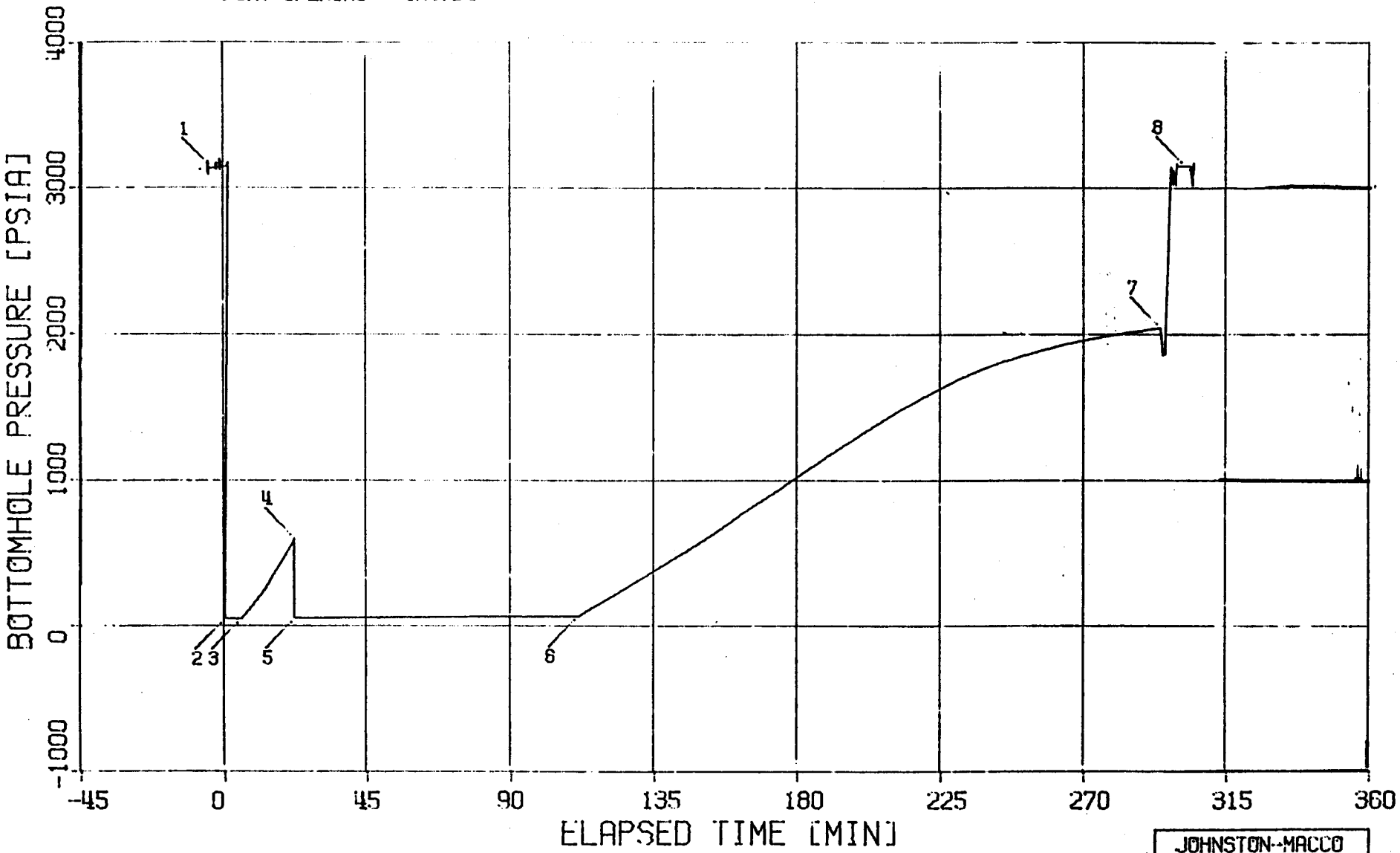
TEST PHASE : SHUTIN PERIOD # 2
FINAL FLOW PRESSURE [PSIA] = 55.19
PRODUCING TIME [MIN] = 94.00

TIME OF DAY HH:MM:SS	DATE DD-MM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
16:41:30	19-AP	338.50	80.00	120.3	1171.29	1116.10	0.337
16:46:30	19-AP	343.50	85.00	120.4	1243.49	1188.30	0.323
16:51:30	19-AP	348.50	90.00	120.4	1313.82	1258.63	0.311
16:56:30	19-AP	353.50	95.00	120.5	1382.09	1326.90	0.299
17: 1:30	19-AP	358.50	100.00	120.5	1447.70	1392.51	0.288
17: 6:30	19-AP	363.50	105.00	120.5	1510.20	1455.01	0.278
17:11:30	19-AP	368.50	110.00	120.5	1569.18	1513.99	0.268
17:16:30	19-AP	373.50	115.00	120.6	1624.30	1569.11	0.259
17:21:30	19-AP	378.50	120.00	120.6	1675.29	1620.10	0.251
17:26:30	19-AP	383.50	125.00	120.6	1721.82	1666.63	0.244
17:31:30	19-AP	388.50	130.00	120.6	1764.30	1709.11	0.236
17:36:30	19-AP	393.50	135.00	120.7	1802.57	1747.38	0.230
17:41:30	19-AP	398.50	140.00	120.7	1836.99	1781.80	0.223
17:46:30	19-AP	403.50	145.00	120.7	1867.44	1812.25	0.217
17:51:30	19-AP	408.50	150.00	120.7	1894.87	1839.68	0.211
17:56:30	19-AP	413.50	155.00	120.8	1919.14	1863.95	0.206
18: 1:30	19-AP	418.50	160.00	120.8	1940.60	1885.41	0.201
18: 6:30	19-AP	423.50	165.00	120.8	1959.59	1904.40	0.196
18:11:30	19-AP	428.50	170.00	120.9	1976.32	1921.13	0.191
18:16:30	19-AP	433.50	175.00	120.9	1991.08	1935.89	0.187
18:21:30	19-AP	438.50	180.00	120.9	2004.27	1949.08	0.182
18:23: 0	19-AP	440.00	181.50	120.9	2006.55	1951.36	0.181

BOTTOMHOLE PRESSURE LOG

FIELD REPORT NO. 42854E
INSTRUMENT NO. J-1117
DEPTH : 6351 FT
CAPACITY : 4700 PSI
PORT OPENING : INSIDE

COMPANY : RESOURCES INVESTMENT CORP.
WELL : RIC TESORO FEDERAL #2-11



JOHNSTON-MACCO
SCHLUMBERGER

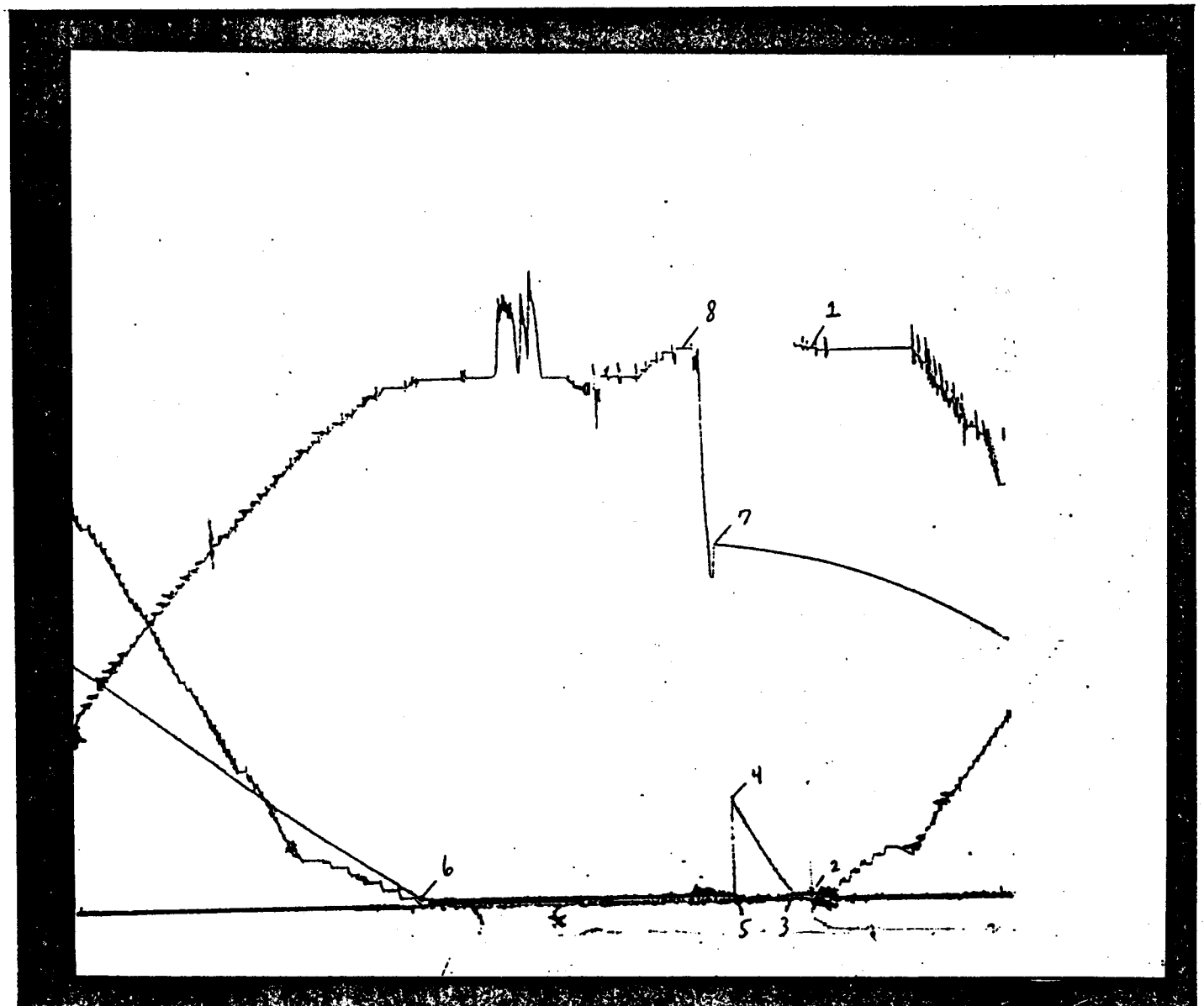
FIELD REPORT NO.: 42854 E

CAPACITY: 4700#

INSTRUMENT NO.: J-1117

NUMBER OF REPORTS: 13

JOHNSTON Schlumberger



JS—167

****
* WELL TEST DATA PRINTOUT *
****

FIELD REPORT # : 42854E

COMPANY : RESOURCES INVESTMENT CORP.
WELL : RIC TESORO FEDERAL #2-11

INSTRUMENT # : J-1117
CAPACITY [PSI] : 4700.
DEPTH [FT] : 6351.0
PORT OPENING : INSIDE
TEMPERATURE [DEG F] : 120.0

LABEL POINT INFORMATION

#	TIME OF DAY HH:MM:SS	DATE DD-MM	EXPLANATION	ELAPSED TIME,MIN	BOT HOLE PRESSURE PSIA
1	13:25:24	19-AP	HYDROSTATIC MUD	-3.60	3138
2	13:29: 0	19-AP	START FLOW	0.00	55
3	13:34:14	19-AP	END FLOW & START SHUT-IN	5.24	55
4	13:51: 7	19-AP	END SHUT-IN	22.11	604
5	13:51:16	19-AP	START FLOW	22.26	60
6	15:20: 8	19-AP	END FLOW & START SHUT-IN	111.13	67
7	18:23: 0	19-AP	END SHUT-IN	294.00	2045
8	18:30:59	19-AP	HYDROSTATIC MUD	301.98	3155

SUMMARY OF FLOW PERIODS

PERIOD	START ELAPSED TIME,MIN	END ELAPSED TIME,MIN	DURATION MIN	START PRESSURE PSIA	END PRESSURE PSIA
1	0.00	5.24	5.24	55	55
2	22.26	111.13	88.87	60	67

SUMMARY OF SHUTIN PERIODS

PERIOD	START ELAPSED TIME,MIN	END ELAPSED TIME,MIN	DURATION MIN	START PRESSURE PSIA	END PRESSURE PSIA	FINAL FLOW PRESSURE PSIA	PRODUCING TIME, MIN
1	5.24	22.11	16.87	55	604	55	5.24
2	111.13	294.00	182.87	67	2045	67	94.11

TEST PHASE : FLOW PERIOD # 1

TIME OF DAY HH:MM:SS	DATE DD-MM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE PRESSURE PSIA
13:29: 0	19-AP	0.00	0.00	55
13:34: 0	19-AP	5.00	5.00	55
13:34:14	19-AP	5.24	5.24	55

TEST PHASE : SHUTIN PERIOD # 1
FINAL FLOW PRESSURE [PSIA] = 55
PRODUCING TIME [MIN] = 5.24

TIME OF DAY HH:MM:SS	DATE DD-MM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
13:34:14	19-AP	5.24	0.00	55	0	
13:35:14	19-AP	6.24	1.00	79	24	0.795
13:36:14	19-AP	7.24	2.00	106	50	0.559
13:37:14	19-AP	8.24	3.00	132	77	0.439
13:38:14	19-AP	9.24	4.00	159	104	0.364
13:39:14	19-AP	10.24	5.00	189	134	0.311
13:40:14	19-AP	11.24	6.00	218	163	0.273
13:41:14	19-AP	12.24	7.00	248	193	0.243
13:42:14	19-AP	13.24	8.00	279	224	0.219
13:43:14	19-AP	14.24	9.00	314	259	0.199
13:44:14	19-AP	15.24	10.00	349	294	0.183
13:46:14	19-AP	17.24	12.00	420	364	0.157
13:48:14	19-AP	19.24	14.00	489	434	0.138
13:50:14	19-AP	21.24	16.00	563	508	0.123
13:51: 7	19-AP	22.11	16.87	604	549	0.117

TEST PHASE : FLOW PERIOD # 2

TIME OF DAY HH:MM:SS	DATE DD-MM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE PRESSURE PSIA
13:51:16	19-AP	22.26	0.00	60
13:56:16	19-AP	27.26	5.00	60
14: 1:16	19-AP	32.26	10.00	60
14: 6:16	19-AP	37.26	15.00	61
14:11:16	19-AP	42.26	20.00	61
14:16:16	19-AP	47.26	25.00	62
14:21:16	19-AP	52.26	30.00	63
14:26:16	19-AP	57.26	35.00	63
14:31:16	19-AP	62.26	40.00	63
14:36:16	19-AP	67.26	45.00	64

TEST PHASE : FLOW PERIOD # 2

TIME OF DAY HH:MM:SS	DATE DD-MM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE PRESSURE PSIA
14:41:16	19-AP	72.26	50.00	65
14:46:16	19-AP	77.26	55.00	66
14:51:16	19-AP	82.26	60.00	67
14:56:16	19-AP	87.26	65.00	67
15: 1:16	19-AP	92.26	70.00	67
15: 6:16	19-AP	97.26	75.00	67
15:11:16	19-AP	102.26	80.00	67
15:16:16	19-AP	107.26	85.00	67
15:20: 8	19-AP	111.13	88.87	67

TEST PHASE : SHUTIN PERIOD # 2
FINAL FLOW PRESSURE [PSIA] = 67
PRODUCING TIME [MIN] = 94.11

TIME OF DAY HH:MM:SS	DATE DD-MM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
15:20: 8	19-AP	111.13	0.00	67	0	
15:21: 8	19-AP	112.13	1.00	82	15	1.978
15:22: 8	19-AP	113.13	2.00	97	30	1.682
15:23: 8	19-AP	114.13	3.00	111	44	1.510
15:24: 8	19-AP	115.13	4.00	125	57	1.390
15:25: 8	19-AP	116.13	5.00	138	71	1.297
15:26: 8	19-AP	117.13	6.00	151	84	1.222
15:27: 8	19-AP	118.13	7.00	164	97	1.160
15:28: 8	19-AP	119.13	8.00	177	110	1.106
15:29: 8	19-AP	120.13	9.00	190	123	1.059
15:30: 8	19-AP	121.13	10.00	203	136	1.017
15:32: 8	19-AP	123.13	12.00	229	162	0.947
15:34: 8	19-AP	125.13	14.00	255	188	0.888
15:36: 8	19-AP	127.13	16.00	281	213	0.838
15:38: 8	19-AP	129.13	18.00	306	239	0.794
15:40: 8	19-AP	131.13	20.00	331	264	0.756
15:42: 8	19-AP	133.13	22.00	357	290	0.722
15:44: 8	19-AP	135.13	24.00	383	315	0.692
15:46: 8	19-AP	137.13	26.00	409	342	0.665
15:48: 8	19-AP	139.13	28.00	435	368	0.640
15:50: 8	19-AP	141.13	30.00	462	394	0.617
15:55: 8	19-AP	146.13	35.00	529	461	0.567
16: 0: 8	19-AP	151.13	40.00	596	529	0.525
16: 5: 8	19-AP	156.13	45.00	668	600	0.490
16:10: 8	19-AP	161.13	50.00	743	675	0.460
16:15: 8	19-AP	166.13	55.00	818	750	0.433
16:20: 8	19-AP	171.13	60.00	891	824	0.410
16:25: 8	19-AP	176.13	65.00	967	899	0.389
16:30: 8	19-AP	181.13	70.00	1040	973	0.370

TEST PHASE : SHUTIN PERIOD # 2
FINAL FLOW PRESSURE [PSIA] = 67
PRODUCING TIME [MIN] = 94.11

TIME OF DAY HH:MM:SS	DATE DD-MM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
16:35: 8	19-AP	186.13	75.00	1114	1047	0.353
16:40: 8	19-AP	191.13	80.00	1188	1121	0.338
16:45: 8	19-AP	196.13	85.00	1259	1192	0.324
16:50: 8	19-AP	201.13	90.00	1329	1262	0.311
16:55: 8	19-AP	206.13	95.00	1398	1330	0.299
17: 0: 8	19-AP	211.13	100.00	1465	1398	0.288
17: 5: 8	19-AP	216.13	105.00	1526	1458	0.278
17:10: 8	19-AP	221.13	110.00	1586	1518	0.268
17:15: 8	19-AP	226.13	115.00	1640	1572	0.260
17:20: 8	19-AP	231.13	120.00	1693	1626	0.251
17:25: 8	19-AP	236.13	125.00	1741	1674	0.244
17:30: 8	19-AP	241.13	130.00	1784	1716	0.237
17:35: 8	19-AP	246.13	135.00	1823	1756	0.230
17:40: 8	19-AP	251.13	140.00	1860	1792	0.223
17:45: 8	19-AP	256.13	145.00	1890	1823	0.217
17:50: 8	19-AP	261.13	150.00	1919	1852	0.211
17:55: 8	19-AP	266.13	155.00	1946	1878	0.206
18: 0: 8	19-AP	271.13	160.00	1968	1901	0.201
18: 5: 8	19-AP	276.13	165.00	1987	1920	0.196
18:10: 8	19-AP	281.13	170.00	2006	1938	0.191
18:15: 8	19-AP	286.13	175.00	2022	1955	0.187
18:20: 8	19-AP	291.13	180.00	2037	1970	0.183
18:23: 0	19-AP	294.00	182.87	2045	1977	0.180

2

GEOLOGICAL WELL REPORT
RESOURCES INVESTMENT CORPORATION
RIC/TESORO FEDERAL #2-11
WILDCAT
SAN JUAN COUNTY, UTAH

R. Tucker Attebery, Geologist
Farmington, New Mexico
April 28, 1982

RECEIVED
MAY 06 1982
DIVISION OF
OIL, GAS & MINING

TITLE PAGE-STOCK NO. 100TP
Smead MFG.CO. HASTINGS MN - LOS ANGELES - CHICAGO
LOGAN OH - McGREGOR TX - LOCUST GROVE GA

ABSTRACT

The Resources Investment Corporation, RIC/TESORO #2-11 was spudded on March 31, 1982 and drilled to a total depth of 6583' Logger, 6582' Driller on April 22, 1982.

The samples were examined by a geologist in the field from 5000' to 6582'. Schlumberger logged the well from 420' to 6574' w/DIL, 4500' to 6580' w/CNL-FDC, 420' to 6570' w/BHC Sonic, 6500' to 6582' w/Dipmeter. Johnston-Maccoran two DST's in the lower Ismay. ATTCO-Hydrocarbon Well Logging Service monitored the drilling mud for Gas from 422' to 6582' with a Hotwire and Chromatograph.

Potential production was indicated in the Lower Ismay and casing set on April 25, 1982.

GEOLOGICAL WELL REPORT
RESOURCES INVESTMENT CORPORATION, RIC/TESORO Federal #2-11
Wildcat
San Juan County, Utah

LOCATION

SE4SW4 of Section 11 - T38S - R21E

ELEVATION

GL 5556' KB 5574' DF 5574'

CONTRACTOR

Brinkerhoff, Rig #32
Toolpusher: Mr. Neal Buller

SPUD AND COMPLETION DATA

Spud Date:	3-31-82
Drillout Date:	3-3-81
Date T.D. Reached:	4-22-82 @ 8:30 A.M.
T.D. Driller:	6582'
T.D. Logger:	6583'

CASING

Surface: 13-3/8" @ 422' w/500 sxs.

ELECTRICAL SURVEYS

Schlumberger: DIL from 420' to 6475'; CNL-FDC from 4500' to 6580' Dipmeter from 6500' to 6582'; BHC Sonic from 420' to 6570'

GAS DETECTION

Attco-Hydrocarbon Well Logging Service w/Hotwire and Chromatograph from 422' to 6581'.

ENGINEERING

Mr. Duane Arthur, Powell, Wyoming

TESTING

Schlumberger (DST): #1 = 6340' to 6400'
#2 = 6404' to 6448'

TESTS

DST #1 (6340' to 6400'), Johnston-Macco (Conventional, on bottom, dbl. pkrs.)

Reason: Gas show, sample show, trace porosity

OPERATION	TIME	BLOW	PSI (6351')	PSI (6357')
IF	5"	vy wk. incr. to wk. (1/2" incr. 3")	37-37	42-52
ISI	15"		601	580
FF	90"	strong (9"), incr. to 14.5 ounces	37-56	52-71
FSI	180"		2051	2060
IHP			3161	3153
FHP			3152	3143

Bottom Choke Size: 15/16" Surface Choke Size: 1/4"

BHT: 120°F

Fluid Recovery: unknown quantity of oil-cut drlg. mud in first collar below reversing tool.

Sample Chamber: 0.15 CFG and 150cc (40 grav. @ 66°F) + 1150 cc mud @ 60 PSI (using 2400cc sample chamber)

Resistivities: Pit mud: 2.0Ω@58°F; Filtrate: 0.43Ω@ 61°F; Filtrate Chlorides: 1300 ppm; Filtrate Nitrates: 225 ppm; Recovered Mud: 2.4Ω@ 58°F, Rec. Wtr.: None; Recovered Mud (Filtrate): 1.3Ω@ 60°F; Chlorides (Rec.): 1300 ppm; Recovered Mud Nitrates: 130 ppm.

Samples caught: Oil, mud

Where taken: Drillpipe, mud pit, sampler

Remarks: good test, tight, poss. water-free oil production

TESTS

DST #2 (6404' to 6448'), Johnston-Macco (Conventional, on bottom, dbl. pkrs.)

Reason: Gas show, sample show, trace porosity

OPERATION	TIME	BLOW	PSI (6412')	PSI (6418')
IF	5"	vy wk decr. to vy vy wk.	37-37	34-34
ISI	15"		46	47
FF	90"	vy wk decr. to zero in 4"	46-46	34-34
FSI	180"		46	59
IHP			3189	3159
FHP			3189	3189

Bottom Choke Size: 11/16" Surface Choke Size: 1/4"

BHT: 120°F

Fluid Recovery: 90' drlg. mud

Sample Chamber: no CFG and 250cc drlg. mud @ 100 PSI (using 2400cc sample chamber)

Resistivities: Pit mud: 1.6Ω@ 52°F; Filtrate: 1.3Ω@ 53°F, Filtrate Chlorides: 1300 ppm; Filtrate Nitrate: 235 ppm; Recovered mud: 1.2Ω@ 62°F; Rec. wtr.: none; Recovered Mud (Filtrates): 1.0Ω@ 62°F; Chlorides (Rec.): 1300 ppm; Nitrates (Rec.): 55 ppm

Samples caught: Mud

Where taken: drillpipe, mud pit, sampler

Remarks: good test, some pressure vs. recovery problems, tight

FORMATION TOPS

Cretaceous	Depth	KB Datum	Thickness
Burro Canyon	Surface	5574'	60'
Jurassic			
Morrison Fm.	60' est.	5514'	728'
Bluff Ss	788'	4786'	179'
Summerville Fm.	967'	4607'	263'
Entrada Ss	1230'	4344'	178'
Carmel Fm.	1408'	4166'	34'
Triassic			
Navajo Ss	1442'	4132'	508'
Kayenta Fm.	1950'	3624'	130'
Wingate Ss	2080'	3494'	312'
Chinle Fm.	2392'	3182'	706'
Shinarump Mbr.	3098'	2476'	40'
Moenkopi Fm	3138'	2436'	320'
Permian			
DeChelly Ss	3458'	2116'	102'
Organ Rock Tongue	3560'	2014'	1759'
Pennsylvanian			
Hermosa (Honaker Trail Fm.)	5319'	255'	887'
U. Ismay	6206'	-632'	131'
L. Ismay	6337'	-763'	56'
Gothic Sh.	6393'	-819'	51'
Desert Creek	6444'	-870'	105'
Akah	6549'	-975'	30'
Salt	6579'	-1005'	penetrated 3'
T.D. Logger	6583'	-1009'	
T.D. Driller	6582'	-1008'	

WELL CUTTINGS

30' spls 442' to 5000'
10' spls 5000' tp 6582'

Sample Quality: Good

BIT RECORD

No.	Make	Size	Type	Depth Out	Footage	Hours Run
1	Smith	12-1/4	F-2	425'	425'	18 hours
2	?	17-1/2	Reamer	425'	425'	
3	HTC	11	3AJ	425'	65'	3-1/2
4	STC	7-7/8	F-2	3425'	3000'	65-1/2
5	Security	7-7/8	S86F	4406'	981'	46-3/4
6	STC	7-7/8	F-3	5551'	1145'	101
7	STC	7-7/8	F-3	6400'	849'	80-1/4
8	STC	7-7/8	F-3	6581'	181'	14

Total Rotating Hours: 329

DEVIATION RECORD

No.	Degree	Depth
1	3/4°	104'
2	1/2°	220
3	3/4°	311
4	ZERO	425
5	3/4°	642
6	1/4°	1140
7	1/2°	1652
8	3/4°	2217
9	1-1/2°	2780
10	1	3282
11	1	3425
12	1-1/4°	3975
13	2	4406
14	1	4951
15	3/4°	5482
16	1-1/2°	5551
17	3/4°	6092
18	3/4°	6400

EVALUATION

The Upper Hermosa contained one minor gas and sample show from a tight limestone between 5325' and 5335'. It is now considered non-commercial.

The Upper Ismay contained several minor gas and sample shows from thin slightly porous limestone zones. The best zones are in the interval between 6209' and 6240'. While probably non-commercial in this well they should be considered prospective in the area.

The Lower Ismay between 6354' and 6381' contains a potential commercial hydrocarbon zone. This is indicated by 3 to 6% porosity, 700 to 900 ohms resistance, 10% Sw, gas show C_1 to C_4, sample show, drilling break 6"/ft to 3.8"/ft. Oil and gas were recovered on a DST of the zone. The sonic and neutron-density logs show the porous zone. While rather tight, the porosity appears to be entirely effective and no water problems are indicated.

The Desert Creek and Akah have slightly porous zones with only C_1 and C_2. These zones are prospective in the area, but appear to be tight and have a high water saturation in this well.

DAILY DRILLING REPORT

3-30-82 Rigging up 24 hours

3-31-82 Rig-up 20 hrs, mix spud mud 2-1/4 hrs, drlg rat and mouse hole 3 hrs, drlg 12¼" surface hole 2-3/4 hrs.

Mud Properties: Spud Mud

4-1-82 Drlg surface (12¼:) and reaming (17½") @70' 22-3/4 hrs, survey 1-1/4 hrs

Deviation: 3/4° @ 104', 1/2° @ 220', 3/4° @ 311', ZERO @ 425'

Mud Properties: Wt. 9.1, Vis 38, W.L. 16.4 cc, Cake 2/32', PH 8.5, Chlorides 950 ppm

4-2-82 Reaming @ 191', Reaming 6-1/4 hrs, Repairs 3/4 hrs, Run casing and cement 17 hrs (ran 10 jts of 13-3/8" and landed @ 422' and cemented w/500 sxs class B, 2% CaCl)

Mud Properties: Wt. 9.5, Vis 43, W.L. 14.6 cc, Cake 2/32, PH 8.0, Chlorides 1450 ppm

4-3-82 WOC @ 422' 12 hrs, Nipple-up and test BOP 12 hrs.

4-4-82 Drlg cement 8 hrs, drlg 14-3/4 hrs, survey 1 hr, rig service 1/4 hrs.

Deviation: 3/4° @ 642', 1/4° @ 1140'

Mud Properties: water

4-5-82 Drlg @ 1454', Drlg 23¼ hrs, Survey ½ hr, Rig service ¼ hr

Devation: ½° @ 1652', 3/4° @ 2217'

Mud Properties: Wt. 9.0, Vis 30, PH 9.5, Chlorides 400 ppm

4-6-82 Drlg @ 2650', Drlg 21¼ hrs, Repair & Service 2¼ hrs, Survey ½ hr

Deviation: 1½° @ 2780'

Mud Properties: Wt 8.7, Vis 30, PH 9.5, Chlorides 1200 ppm

4-7-82 Drlg @ 3170', Drlg 18 hrs, Circ & Survey 2¼ hrs, TF hole 2 3/4 hrs

Deviation: 1° @ 3282', 1° @ 3425'

Mud Properties: Wt 8.7, Vis 29, PH 10.0, Chlorides 1640 ppm

4-8-82 Drlg @ 3675', Drlg 18 3/4 hrs, Survey ½ hr, level Rig 4 3/4 hrs

Deviation: 1¼° @ 3975'

Mud Properties: Wt 8.8, Vis 36, PH 9.5 Chlorides 700ppm

4-9-82 Drlg @4014, Drlg 18 3/4 hrs, Survey ½ hr, level Rig 4 3/4 hrs

Deviation: 1¼° @ 3975'

Mud Properties: Wt 8.8, Vis 36, PH 9.5, Chlorides 700 ppm

4-9-82 Drlg @ 4014', Drlg 20 3/4 hrs, TF hole in pipe 2 hrs TOH 1 hr, Service ¼ hr

Deviation: 2° @ 4406'

Mud Properties: Wt 8.9, Vis 30, PH 8.0, Chlorides 1360'

4-10-82 Tripping @ 4406', Finish trip & wash to bottom 4 3/4 hrs, Service Rig ¼ hr, Drlg 19 hrs

Mud Properties: Wt 9.1, Vis 28, PH 8.0, Chlorides 1200 ppm

Drlg @ 4740', Drlg 21 hrs, Survey 1 hr, Work on Pumps 2 hrs

Deviation: 1° @ 4951'

Mud Properties: Wt 9.3, Vis 28, PH 7.5, Chlorides 900 ppm

4-12-82 Drlg @ 5010', Rig Service ¼ hr, TOH for hole in DP 1½ hrs, Drlg 22¼ hrs

Mud Properties: Wt 9.1, Vis 34, W.L. 13.6 cc, Cake 2/32", PH 9.0, Chlorides 940 ppm

4-13-82 Drlg @ 5222', Rig Service ¼ hr, Drlg 23 3/4 hrs

Mud Properties: Wt 9.2, Vis 35, W.L. 10.8 cc, Cake 1/32", PH 9.0, Chlorides 1000 ppm

4-14-82 Drlg @ 5424', Drlg 17 hrs, Circ & Survey 1 hr, TFB 5¼ hrs, Service & Repair Rig 3/4 hr

Deviation: 3/4° @ 5484', 1½ @ 5551'

Mud Properties: Wt 9.1, Vis 35, W.L. 10.2 cc, Cake 1/32, PH 9.0, Chlorides 1020 ppm

4-15 82 Drlg @ 5560', Drlg 23 hrs, TF hole in DP ½ hr, Sevice & Repair ½ hr

Mud Properties: Wt 9.2, Vis 36, W.L. 9.6 cc, Cake 1/32, PH 11.0, Chlorides 1100 ppm

4-16-82 Tripping @ 5852', Tripping 7 hrs, Rig Service ¼ hr, Drlg 16 3/4 hrs

Mud Properties: Wt 9.3, Vis 36, W.L. 9.5 cc, Cake 1/32, PH 10.5 , Chlorides 1100 ppm

4-17-82 Drlg @ 6010', Drlg 21 hrs, Service Rig ¼ hr, Survey ½ hr, TF hole in DP 2 hrs, Pump Repair ¼ hr

Deviation: 3/4° @ 6092'

Mud Properties: Wt 9.3, Vis 35, W.L. 10.8 cc, Cake 1/32, PH 10.0, Chlorides 1220 ppm

4-18-82 Tripping @ 6220', TF hole in DP 7½ hrs, Service Rig ¼ hr, Drlg 16¼ hrs

Mud Properties: Wt 9.1, Vis 38, W.L. 10 cc, Cake 1/32, PH 10.5, Chlorides 1300 ppm

4-19-82 Drlg @ 6383, Drlg to 6400' (Test Point) 2 hrs, Circ 3¼ hrs, Survey ¼ hr, TOH 2½ hrs, Rig Service ¼ hr, Pick up DST tools 2 hrs, TIH 2 3/4 hrs, DST #1 7½ hrs, TOH 3½ hrs

Deviation: 3/4° @ 6400'

Mud Properties: Wt 9.4, Vis 39, Cake 1/32", W.L. 9.6 cc, PH 10.0, Chlorides 1360 ppm

4-20-82 Testing @ 6400', Load DST tools 1 hr, TIH and Repair 10' 2 3/4 hrs Drlg 2¼ hrs, Circ 2 hrs, WOO 4 hrs, Circ & Short Trip 8 hrs, Trip out of hole and pick up DST tools 4 hrs

Mud Properties: Wt 9.4, Vis 39, Cake 1/32", W.L. 10.4 cc, PH 10.5, Chlorides 1450 ppm

4-21-82 Testing @ 6448', Rig up tools & TIH 5 hrs, DST #2 9 hrs, TIH 6¼ hrs, Drlg 3 3/4 hrs

Mud Properties: Wt 9.4, Vis 40, W.L. 10.1 cc, Cake 1/32", PH 11.0, Chlorides1590 ppm

4-22-82 Drlg @ 6477, Drlg 8½ hrs, TOH full logs & Circ 6 hrs, logging 9½ hrs

Mud Properties: Wt 9.4, Vis 44, W.L. 9.2, Cake 1/32, PH 11.5, Chlorides 6400 ppm

4-23-82	Logging @ 6581', Finish logging, Geologist released, Mud logger released
4-24-82	Plan to run casing

Sample Discription

5000-10	50% Ls:	wht-brn-gry, vfn-xln, hard, dense
	10% Ss:	clr, m-crs-g, sbrnd-ang, mod. (wht) clyfill, vy hard-firm, tight-sl porous, N-S
	40% Sh:	rd brn-gry, sl calc, sme sndy, firm
5010-20	30% Ls:	AA
	10% Ss:	AA
	60% Sh:	AA
5020-30	20% Ls:	AA
	Trace Ss:	AA
	70% Sh:	AA
	10% Chert:	smokey, frosted, sbrnd, translucent
5030-60	30% Ls:	AA
	10% Ss:	clr, fn-crs-g, sbrnd-sbang, mod. clyfill, hard tite, N-S
	50% Sh:	AA
	10% Chert:	AA
5060-70	30% Ls:	gry-buff-wht, vfn-xln, hard, dense
	20% Ss:	clr, m-crs-g, sbang-sbrnd, sme clyfill, hard, tite, N-S
	40% Sh:	AA
	10% Chert:	AA
5070-80	20% Ls:	AA
	10% Ss:	AA
	70% Sh:	AA
	Trace Chert:	AA
5080-90	30% Ls:	AA
	10% Ss:	AA
	60% Sh:	AA
5090-5100	20% Ls:	AA
	30% Ss:	buff, m-g, sbrnd-rnd, lse, porous, N-S
	50% Sh:	AA
5100-70	10% Ls:	AA
	90% Sh:	gry-drkgry-buff-rdbrn, firm, sl calc
5170-90	20% Ls:	AA
	80% Sh:	AA
5190-5210	40% Ls:	AA
	60% Sh:	AA
5210-30	10% Ls:	AA
	90% Sh:	AA

5230-40 20% Ls: AA
80% Sh: AA
Trace Chert: smokey

5240-50 10% Ls: AA
90% Sh: AA

5260-80 30% Ls: wht-buff, fn-xln to chalky, firm-soft, tite
70% Sh: AA
Trace Chert: lt gry

5280-90 10% Ls: AA
90% Sh: AA

5290-5300 20% Ls: AA
80% Sh: AA

5300-30 20% Ls: wht-buff, vfn-xln, firm, tite
80% Sh: gry-rdbrn-grn, firm, sl calc

5330-70 70% Ls: wht-buff, vfn,fn-sln, soft-firm, sme indistinct fossils, sme calcite xls,tite, ltblu-faint yel fluor w/no cut, vy organic
30% Sh: AA, sme silty

5370-90 30% Ls: wht-buff, vfn-xln to micro sucrosic, firm, trace indistinct foss., trace porosity in part, tite in part, dull yel fluor w.good cut on few fragments, no cut on most
10% Ss: clr, fn-g, sbrnd, firm, mod, clyfill, tite, N-S
60% Sh: gry-drkgry-rdbrn-blk, plty, firm

5390-5400 40% Ls: wht-buff, vfn-xln, trace indistinct foss., firm, tite, N-S
10% Ss: clr, fn-m-g, sbrnd, vy sl clyfill, calc, friable, porous, N-S
50% Sh: gry-rdbrn, plty, sl calc, firm
Trace Anhydite: wht, fn-xln

5400-20 40% Ls: AA
60% Sh: AA
Trace Anhy: AA

5430-50 20% Ls: AA
10% Ss: gry, vfn-g, sbrnd, clean, fri, porous, N-S
70% Sh: AA
Trace Chert: lt blu

5450-70 40% Ls: wht-lt brn, vfn-xln, sme indistinct fossils, some calcite infill & fractures fill, firm-sft, sl porous, N-S
60% Sh: gry-rd brn, sme sndy, sl calc, plty, firm

5470-80 20% Ls: AA
80% Sh: AA

5480-90 20% Ls: AA, tite
20% Ss: clr, fn-m-g, sbrnd-rnd, lse, porous, N-S
50% Sh: gry-drk gry-brn, sl calc, plty, firm
10% Chert: clr, rndd-sbrnd, inclusions

5490-5500 40% Ls: AA
50% Sh: AA
10% Chert: AA

5500-10 60% Ls: AA
40% Sh: AA
Trace Chert: AA
Trace Anhy: wht, xln

5510-20 40% Ls: AA
60% Sh: AA
Trace Chert: AA
Trace Anhy: wht,xln

5520-30 30% Ls: AA
50% Sh: AA
20% Shstn: gry, firm, sl calc, sme mafics, clyey, tite, dull yel fluor, no cut
Trace Anhy: wht, xln

5530-50 Samples Missing

5550-60 10% Ls: AA
80% Sh: AA
10% Ss: clr, m-g, vnd, sl clayfill, friable, porous, N-S

5560-70 10% Ls: wht-buff (mottled), micro-xln, dense, tite
10% Ss: clr, fn-g, sbrnd-rnd,fri,porous, N-S
70% Sh: gry-rd brn, plty, sme sl calc
10% Anhy: wht, fn-xln, soft

5570-80 20% Ls: wht-buff (mottled), micro-xln to fn-xln, indistinct fossils, sme Oolites, sme calcite infilling, poss. sl interparticle porosity, N-S
10% Ss: clr, vfn-fn-g, sbrnd, mod, porous-tite, N-S
70% Sh: AA

5580-90 80% Ls: wht-gry-buff (sme mottled), fn-m-xln, crin-Oolites-indistinct fossils, sme dolomitic, calcite infilling, poss. sl interparticle porosity, N-S
20% Sh: AA

5590-5600 10% Ls: AA
80% Sh: AA
10% Anhydrite: wht, vfn-xln, soft

5600-40 10% Ls: AA
10% Sltstn: gry, sl carb., sl calc, sl clyfilled, firm tite
80% Sh: AA

5640-60 No Samples

5660-5700 10% Ls: AA
10% Sltstn: AA
80% Sh: gry-rd brn, sl calc, sme silty, plty, firm

5700-50 10% Ls: AA
10% Ss: gry-rdbrn, fn-m-g, sbrnd-sbang, shly, calc, hard, tite, N-S
80% Sh: AA

5750-60 20% Ls: AA
80% Sh: AA

5760-70 30% Ls: buff-wht, fn-xln, vy fossil (Crin, Oolotes), calcite infill, firm, tite, N-S
70% Sh: AA

5770-90 20% Ls: AA
30% Chert: gry-grybrn, ang, incl
50% Sh: AA

5790-5800 20% Ls: AA
10% Chert: AA
70% Sh: AA

5800-50 10% Ls: AA
10% Sltstn: gry, hard tite, calc
80% Sh: gry-brn, fissil, sl calc, firm
Trace Chert: gry, ang, incl.

5850-80 10% Ls: wht-buff, vfn-xln to chalky, firm, sl foss., firm, tite, N-S
90% Sh: AA
Trace Chert: AA

5880-5900 30% Ls: crm-brn, fn-xln, foss. (brach., crinoids, pelletal), firm, tite, N-S
60% Sh: AA
10% Chert: gry, ang, platy in part

5900-30 50% Ls: crm-buff, vfn-xln to chalky, firm, dense, N-S
50% Sh: AA
Trace Chert: AA

5930-40	30% Ls: AA 70% Sh: AA Trace Chert: AA
5950-5980	10% Ls: AA 90% Sh: AA
5980-90	30% Ls: gry-brn, vfn-xln, dense 70% Sh: gry-blk gry, plty,calc
5990-6000	20% Ls: AA 80% Sh: AA Trace Ss: brn, m-g, sbrnd, sl shly, sl calc, sl porous <u>N-S</u>
6000-10	70% Ls: wht-buff, vfn-xln, dense 30% Sh: gry-drk gry-brn, sl calc, plty, firm
6010-30	20% Ls: AA 80% Sh: AA
6030-40	40% Ls: AA 60% Sh: AA Trace Chert: brn, ang
6040-50	10% Ls: AA 90% Sh: AA
6050-60	10% Ls: AA 10% Ss: gry,m-g, sbrnd,sl shly,friable, porous, <u>N-S</u> 80% Sh: AA
6060-70	10% Ls: AA 90% Sh: AA
6070-80	10% Ls: AA 10% Ss: gry, m-g, sbrnd, sl shly, fri, porous, <u>N-S</u> 80% Sh: AA
6080-90	10% Ls: AA 10% Ss: AA 10% Sltstn: gry, shly, firm, sl calc, <u>N-S</u> 70% Sh: AA
6090-6110	20% Ls: wht-gry-buff, fn-xln, indistinct fossils, firm, tite, <u>N-S</u> 80% Sh: AA
6110-20	40% Ls: wht-gry-brn, vfn-xln, indistinct foss. (crinoids), firm, sme calcite infilling, tite 60% Sh: gry-brn, plty, sl calc, firm

6120-50	50% Ls:	wht-brn, vfn-xln to microsucrosic, minor calcite, sft, tite, N-S
	20% Ss:	lt gry, vfn-g, sbrnd-rnd, vy calc, fri, sl porous, N-S
	20% Sh:	gry-drk gry, plty-blky, calc
	10% Chert:	brn, angular, translucent
6150-80	20% Ls:	AA w/trace indistinct fossils
	10% Ss:	AA
	70% Sh:	AA
	Trace Chert:	AA
6180-6200	40% Ls:	wht-buff, vfn-xln to microsucrosic, sft, tite, N-S
	60% Sh:	AA
6200-10	40% Ls:	crm-lt brn, vfn-xln, sft, tite, N-S
	60% Sh:	drk gry, splinter, sl calc
	Trace Flint:	bly ang
6210-30	10% Ls:	AA
	90% Sh:	AA
6230-40	40% Ls:	AA, yel fluor w/wk cut
	60% Sh:	AA
6240-50	20% Ls:	lt brn, fn-m-xln, calcite in fill, firm, (crinoids), tite, N-S
	70% Sh:	gry-brn, sl calc, plty
	10% Chert:	brn, ang, translucent
6250-60	10% Ls:	AA
	90% Sh:	gry-drk gry, sl calc, firm, plty
6260-80	30% Ls:	gry-lt brn-crm, vfn-xln, indistinct fossils w/calcite infill, firm, tite, N-S
	70% Sh:	AA
6280-6300	10% Ls:	AA
	90% Sh:	AA
6300-10	40% Ls:	lt gry-lt brn-drk brn, fn-xln, indistinct fossils w/ minor calcite infill, firm, dense, tite, dull yel fuor w wk cut
	60% Sh:	gry-brn, calc, plty, firm
6310-20	50% Ls:	AA w/show AA
	40% Sh:	AA
	10% Chert:	brn, ang, translucent
6320-30	20% Ls:	AA w/show AA
	80% Sh:	AA

6330-40 80% Ls: AA w/dull yel fluor and no cut
20% Sh: AA

6340-60 90% Ls: crm-buff, fn-xln to chalky, trace fusilinds and crinoids, calc infill, trace inter xln porosity blu and dull yel fluor w/vy wk cut
10% Sh: gry-brn, plty, calc, firm

6360-70 100% Ls: crm-gry, fn-m-xln to chalky to trace nodular, indistinct foss., trace algal, sme calcite infill, trace intergranular porosity, blu and yel and wht fluor w/wk cut

6370-90 80% Ls: wht-buff-gry, fn-xln to chalky, trace intergranular porosity, blu-yel-wht fluor w/wk cut
20% Sh: drk gry,calc, plty
Trace Chert: brn, ang

6390-6400 50% Ls: AA w/show AA
40% Sh: AA
10% Chert: smoky, ang

6400-10 20% Ls: wht-gry-buff-brn, micro-sucrosic-chalky and fn-m-xln and sme nodular, brach. frags, vy sl to sl porous, blu wht fluor w/strmg cut
70% Sh: blk, vy calc, fissil, sme micro pyritic
10% Chert: gry, ang

6410-20 30% Ls: AA w/show AA
70% Sh: AA

6420-30 30% Ls: AA, bright yel fluor w/fair cut
70% Sh: AA

6430-40 30% Ls: AA, yel fluor w/wk cut
70% Sh: AA

6440-50 10% Ls: AA w/show AA
80% Sh: AA
10% Chert: gry-brn-amg

6410-20 30% Ls: AA w/show AA
70% Sh: AA

6420-30 30% Ls: AA, bright yel fluor w/fair cut
70% Sh: AA

6430-40 30% Ls: AA, yel fluor w/ wk cut
70% Sh: AA

6440-50 10% Ls: AA w/show AA
80% Sh: AA
10% Chert: gry-brn, ang

6450-60 20% Ls: crm, vfn-xln, soft, dense, N-S
80% Sh: drk gry-blk, vy calc, plty, firm and gry, soft, sl.silty

6460-70 20% Ls: crm, vfn-xln, soft, sme indistinct fossils, sme calcite in filling, dense, N-S
20% Sltstn: gry, shly, calc, N-S
60% Sh: drk gry-gry, soft, plty, calc, carb.

6470-80 10% Ls: AA
10% Ss: clr, vfn-g, rndd, calc, clean, fri-loose, porous, N-S
30% Sltstn: AA
50% Sh: AA

6480-90 30% Ls: AA
20% Sltstn: AA
40% Sh: AA
10% Anhydrite: wht, soft, massive

6490-6510 30% Dol: gry-brn, vy fn-xln, dense, N-S
10% Ls: AA
20% Sltstn: AA
30% Sh: AA
10% Anhy: wht, sucrosic

6510-30 10% Dol: AA
20% Ls: AA
10% Sltstn: AA
40% Sh: gry-drk gry, calc, plty
20% Anhy: wht, sft, massive

6530-40 30% Ls: gry-brn, vfn-xln, firm, dense, N-S
20% Dol: brn, fn-xln to micro-granulose, sl porous, N-S
10% Ss: clr,fn-g, sbrnd, fri, porous, N-S
10% Sh: AA
30% Anhy: AA

6540-50 20% Ls: AA
20% Dol: AA
30% Sh: AA
30% Anhy: AA

6550-60 20% Ls: AA
20% Dol: AA
20% Sltstn: gry, hrd, shly, N-S
20% Sh: AA
20% Anhy: AA

6560-70	20% Ls: AA Trace Dol: AA 10% Sltstn: AA 60% Sh: drk gry-blk, blky, calc, carb., soft 10% Anhy: AA
6570-81	10% Dol: AA 10% Sltstn: AA 50% Sh: AA 30% Anhy: AA

TD 6581'

RESOURCES
INVESTMENT
CORPORATION 3500 Anaconda Tower 555 17th Street Denver, Colorado 80202-3968 Tel 303/825-3328

OIL AND GAS EXPLORATION AND PRODUCTION Subsidiary of ENERGY MANAGEMENT CORPORATION

Confidential

June 4, 1982

State of Utah
Oil, Gas & Mining Division of
1588 West, North Temple
Salt Lake City, Utah 84116

CONFIDENTIAL

RE: RIC-Tesoro Federal #2-11
Section 11-T38S-R21E
San Juan, Utah

Gentlemen:

Attached please find the original and two copies of the Sundry Notices denoting spud date and setting of surface casing, setting of production casing and tubing, intent of fracture treatment, and finally the subsequent report of fracture treatment.

If you have any questions, please do not hesitate to contact me at the above letterhead address.

Sincerely yours,

RESOURCES INVESTMENT CORPORATION

T. L. Hoffman

Ms. T.L. Hoffman
Senior Production Technician

tlh
Enclosure

cc: Marv W. Isaacson
Etta Daniel
WF/WIO's
RF

RECEIVED
MAY 09 1982
DIVISION OF
OIL, GAS & MINING

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: Resources Investment Corporation

3. ADDRESS OF OPERATOR: 555 17th St. - 3500 Anaconda Tower - Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 660' FSL & 1982' FWL (SE SW)

5. LEASE DESIGNATION AND SERIAL NO.: U-18428

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A

7. UNIT AGREEMENT NAME: N/A

8. FARM OR LEASE NAME: RIC-Tesoro Federal

9. WELL NO.: 2-11

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 11-38S-21E

12. COUNTY OR PARISH: San Juan

13. STATE: Utah

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5556' GR

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	X	MULTIPLE COMPLETE		FRACTURE TREATMENT		ALTERING CASING	
SHOOT OR ACIDIZE		ABANDON*		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.)*

Operator of the above subject well intends to fracture treat as follows:

Frac Desert Creek @ 6398-6408', 6455-60' and Ismay @ 6355-74'.

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

SIGNED Dan Hall TITLE Senior Prod. Engineer DATE June 2, 1982

(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)

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: Resources Investment Corporation

3. ADDRESS OF OPERATOR: 555 17th St. - 3500 Anaconada Tower - Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 660' FSL & 1982' FWL (SE SW)

5. LEASE DESIGNATION AND SERIAL NO.: U-18428

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A

7. UNIT AGREEMENT NAME: N/A

8. FARM OR LEASE NAME: RIC-Tesoro Federal

9. WELL NO.: 2-11

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 11-38S-21E

12. COUNTY OR PARISH: San Juan

13. STATE: Utah

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5556' GR

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	[X]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	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.)*

Operator of the above subject well fracture treated as follows:

RU Western to frac the Desert Creek @ 6398-6408' & 6455-60' and Ismay @ 6355-74', down 2-7/8" tubing w/18,000 g 20% Acid Gel-50 containing 1 GPT I-10B, 5 GPT LT-25, and 25 PPT XR-2, 18,000 g 2% KCL containing 30 PPT J-2, 10 PPT Buffer 1, 20 PPT Aquaseal II, and 1 GPT Aquaflow over-flushed w/1764 g 2 % KCL containing 3 PPT FR-16 in three stages diverted by 30 perf balls. All fluids contained 600 SCF/bbl CO2. Press annulus to 2000#.

	PRESS	RATE	ISIP - 3100#
MAX	4400#	7 BPM	5 min - 2900#
MIN	1100#	3.5 BPM	10 min - 2800#
AVG	4000#	6.2 BPM	15 min -- 2700#

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

SIGNED [signature] TITLE Senior Prod. Engineer DATE June 2, 1982

(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

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.)

5. LEASE DESIGNATION AND SERIAL NO.: U-18428

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A

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

7. UNIT AGREEMENT NAME: N/A

2. NAME OF OPERATOR: Resources Investment Corporation

8. FARM OR LEASE NAME: RIC-Tesoro Federal

3. ADDRESS OF OPERATOR: 555 17th St. - 3500 Anaconda Tower - Denver, Colorado 80202

9. WELL NO.: 2-11

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 660' FSL & 1982' FWL (SE SW)

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 11-38S-21E

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5556' 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*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other) Set Production csg. & Tubing			[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.)*

Operator of the above subject well set production casing and tubing as follows:

PRODUCTION CASING: RU and ran 164 jts of 5½", J-55 w/10 centralizers. Cemented w/100 sacks 50/50 pos, 150 sacks cls "H".

TUBING: Ran 2-7/8", 6.5#, J-55, EUE tubing (210 jts).

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

SIGNED [signature] TITLE Senior Prod. Engineer DATE June 2, 1982

(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

CONFIDENTIAL

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. LEASE DESIGNATION AND SERIAL NO.: U-18428

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A

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

7. UNIT AGREEMENT NAME: N/A

2. NAME OF OPERATOR: Resources Investment Corporation

8. FARM OR LEASE NAME: RIC-Tesoro Federal

3. ADDRESS OF OPERATOR: 555 17th St. - 3500 Anaconda Tower - Denver, Colorado 80202

9. WELL NO.: 2-11

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 660' FSL & 1982' FWL (SE SW)

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 11-38S-21E

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5556' 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*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other) Spud & Set Surface Casing			[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.)*

Operator of the above subject well spudded 3-31-82 @ 4 pm, and set surface casing as follows:

RU 10 jts 13-3/8", 54.5#, K-55, circulated and cemented casing w/500 sacks class 'B'.

RECEIVED
MAY 09 1982
DIVISION OF
OIL, GAS & MINING

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

SIGNED [signature] TITLE Senior Prod. Engineer DATE June 2, 1982

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

RESOURCES
INVESTMENT
CORPORATION 3500 Anaconda Tower 555 17th Street Denver, Colorado 80202-3968 Tel 303 825-3328

OIL AND GAS EXPLORATION AND PRODUCTION Subsidiary of ENERGY MANAGEMENT CORPORATION

September 16, 1982

Minerals Management Service
1745 W 1700 South, Suite 2000
Salt Lake City, Utah 84104

Re: RIC-Tesoro Federal 2-11
Section 11-T38S-R21E
San Juan County, Utah

Gentlemen:

Enclosed are two copies of the Well Completion Report (Form 9-330) for the referenced well.

Should you have any questions, please contact Mr. Dan Hall, Senior Production Engineer at (303)825-3328.

Yours very truly,

RESOURCES INVESTMENT CORPORATION

Etta Daniel

Etta Daniel
Regulatory Specialist

/ed

Enclosures

cc: State of Utah, Oil & Gas Division

RECEIVED
SEP 20 1982
DIVISION OF
OIL, GAS & MINING

Form 9-330
(Rev. 5-63)

Confidential

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

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

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

2. NAME OF OPERATOR: Resources Investment Corporation

3. ADDRESS OF OPERATOR: 3500 Anaconda Tower, Denver, Colorado 80202

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: 1300' FSL & 2400' FWL (SESW)
At top prod. interval reported below: same
At total depth: same

14. PERMIT NO. / DATE ISSUED: 43-037-30763

5. LEASE DESIGNATION AND SERIAL NO.: U-18428
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: na
7. UNIT AGREEMENT NAME: na
8. FARM OR LEASE NAME: RIC Tesoro Federal
9. WELL NO.: 2-11
10. FIELD AND POOL, OR WILDCAT: Wildcat
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec.11-T38S-R21E
12. COUNTY OR PARISH: San Juan
13. STATE: Utah

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
3/31/82	4/22/82	6/5/82	5574' KB	--

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
6582'	6495'	na	→	0-TD	na

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
Desert Creek: 6398'-6460' Ismay: 6355'-6374'

25. WAS DIRECTIONAL SURVEY MADE: no

26. TYPE ELECTRIC AND OTHER LOGS RUN: FDC-CNL-GR-CAL, DIL-GR, CBL-GR-CCL

27. WAS WELL CORED: no

RECEIVED SEP 20 1982 DIVISION OF OIL, GAS & MINING

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8"	54.5#	425'	17 1/2"	500 sacks	none
5 1/2"	15.5#	6582'	7 7/8"	250 sacks	none

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"	6496'	na

31. PERFORATION RECORD (*Interval, size and number*)
6398-6408: 11 - 0.43" holes
6455-6460: 6 - 0.43" holes
6355-6374: 20 - 0.43" holes

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
6398-6460'	Acidized w/2000gal 15%
6355-6374'	Acidized w/2000gal 28%
6355-6460'	Fraced w/18000gal 20%acid and 18,000 gal gel

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
6/5/82	Pumping 2½"x1¼" RHAC	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
6/13/82	24	NA	→	7	not measured	0	--

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
na	0	→	7	--	0	38.1°

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

TEST WITNESSED BY: Mr. Jim Arthur

35. LIST OF ATTACHMENTS

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

SIGNED: Dan Hall /Dan Hall TITLE: Senior Production Engineer DATE: 9/16/82

*(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.
ISMAY DST #1	6340	6400	IH: 3161 FH: 3152 IF (5 min): 37-37 psi ISI (15 min): 601 psi FF (90 min): 37-56 psi FSI (180 min): 2051 psi Recovery not measured-reversed out. Sampler contained 150 ccs oil, 1150 ccs HOCM, and 0.15 cu ft gas.
DESERT CREEK DST #2	6404	6448	IH: 3189 FH: 3189 IF (5 min): 37-37 psi ISI (15 min): 46 psi FF (90 min): 46-46 psi FSI (180 min): 46 psi Rec 90' DM Sampler contained 250 ccs DM @ 100 psi

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
Cedar Mesa	4120	
Hermosa	5316	
Upper Ismay	6206	
Lower Ismay	6334	
Gothic	6394	
Desert Creek	6443	

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

Form OGC-1b

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

2

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: Resources Investment Corporation

3. ADDRESS OF OPERATOR: 3500 Anaconda Tower, Denver, Co. 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1300' FSL & 2400' FWL (SESW)

5. LEASE DESIGNATION AND SERIAL NO.: U-18428

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NA

7. UNIT AGREEMENT NAME: NA

8. FARM OR LEASE NAME: RIC Tesoro Federal

9. WELL NO.: 2-11

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 11-T38S-R21E

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5574' KB

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* Temp.	[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.)*

Due to uneconomical producing conditions, it is hereby proposed to temporarily abandon the referenced well pending further evaluation. The tubing and rod strings will be pulled and the surface will be restored as per MMS stipulations.

Note: Verbal approval received from Bob Hendricks (MMS) 11/16/82.

RECEIVED
NOV 23 1982
DIVISION OF
OIL, GAS & MINING

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

SIGNED [signature] TITLE Sr. Production Engineer DATE 11/16/82

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

RESOURCES
INVESTMENT
CORPORATION
1801 California Street / Suite 2000 / Denver, Colorado 80202 / Tel 303/291-7500

OIL AND GAS EXPLORATION AND PRODUCTION Subsidiary of ENERGY MANAGEMENT CORPORATION

RECEIVED
SEP 26 1984
DIVISION OF OIL
GAS & MINING

September 21, 1984

State of Utah
Natural Resources
Oil, Gas, & Mining
4241 State Office Building
Salt Lake City, UT 84114

RE: Overdue Reports
Tesoro Federal #2-11
API 43-037-30763

Attn: Mr. Norm Stout

Dear Mr. Stout:

Regarding your letter of September 13, 1984 and overdue reports on the above referenced well, please note that this well was T & A'd effective November 19, 1982, was sold effective May 16, 1983 to Mr. Richard Mainord, and was plugged and abandoned effective February 1, 1984.

This lease has produced nothing that I can determine from October of 1982. I am enclosing copies of the U.S. Geological Survey Sundry Notices on plugging and and on change of operator.

If I can be of any further assistance, please feel free to contact our office. Thank you very much.

Sincerely,
RESOURCES INVESTMENT CORPORATION

Kimberly McDaniel
Production & Regulatory Analyst

km/
attachments

[redacted] CC: WIOS

2-27-84

Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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 Form 9-331-C for such proposals.)

1. oil well [X] gas well [ ] other

2. NAME OF OPERATOR
Resources Investment Corporation

3. ADDRESS OF OPERATOR
1225 17th St., Denver, Co. 80202

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1300' FSL & 2400' FWL (SESW)
AT TOP PROD. INTERVAL: same
AT TOTAL DEPTH: same

5. LEASE
U-18428

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
[redacted]

9. WELL NO.
[redacted]

10. FIELD OR WILDCAT NAME
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 11 T38S R21E

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

14. API NO.
43-037-30763

15. ELEVATIONS (SHOW DF, KDB, AND WD)
5547' KB

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	[ ]	[ ]
FRACTURE TREAT	[ ]	[ ]
SHOOT OR ACIDIZE	[ ]	[ ]
REPAIR WELL	[ ]	[ ]
PULL OR ALTER CASING	[ ]	[ ]
MULTIPLE COMPLETE	[ ]	[ ]
CHANGE ZONES	[ ]	[ ]
ABANDON*	[ ]	[XX]
(other)		

RECEIVED
SEP 26 1984
DIVISION OF OIL GAS & MINING

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

RECEIVED
FEB 17 1984
DIV. OF OIL, GAS & MINING

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.)*

Pulled & laid down rods & pump - POH w/2 7/8" tbg standing back.
TIH w/ 2 7/8" tbg to PBTD 6485'. Circulated hole w/9.2# gal F.W. mud.
Spotted 50 sx cmt 6485-6200' across Ismay & Desert Creek perfs.
Spotted 30 sx cmt 5000-5200' - POH to 1800'.
Perforated w/ thru tbg gun from 1999-2000' 2/4JSPF - POH w/ gun.
Opened 13 3/8" X 5½" ann. valve, closed BOP & circulated 75 sx cmt dn tbg.
Displaced cmt to btm of tbg, placing 40 sx behind csg & leaving 30 sx in csg.
Cut off surf csg & prod csg 4" below GL & Spotted 25 sx plug at the surface.
Installed dry hole marker & restored location.

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 2/14/84
BY: [signature]

Subsurface Safety Valve: Manu. and Type _____ Set at _____ Ft.

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

SIGNED D. L. Taylor TITLE Operations Manager DATE 2/14/84

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

MINERALS MANAGEMENT SERVICE
OIL & GAS OPERATIONS
RECEIVED
MAY 13 1983
SALT LAKE CITY, UTAH

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 Form 9-331-C for such proposals.)

1. oil well [XX] gas well [ ] other

2. NAME OF OPERATOR
Resources Investment Corporation

3. ADDRESS OF OPERATOR
1225 17th St., 32nd Floor, Denver, Co. 80202

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1300' FSL & 2400' FWL (SESW)
AT TOP PROD. INTERVAL: same
AT TOTAL DEPTH: same

5. LEASE
U-18428

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
NA

7. UNIT AGREEMENT NAME
NA

8. FARM OR LEASE NAME
RIC Tesoro Federal

9. WELL NO.
2-11

10. FIELD OR WILDCAT NAME
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec 11-T38S-R21E

12. COUNTY OR PARISH: San Juan
13. STATE: Utah

14. API NO.
43-037-30763

15. ELEVATIONS (SHOW DF, KDB, AND WD)
5547' KB

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	[ ]	[ ]
FRACTURE TREAT	[ ]	[ ]
SHOOT OR ACIDIZE	[ ]	[ ]
REPAIR WELL	[ ]	[ ]
PULL OR ALTER CASING	[ ]	[ ]
MULTIPLE COMPLETE	[ ]	[ ]
CHANGE ZONES	[ ]	[ ]
ABANDON*	[ ]	[ ]
(other) CHANGE OF OPERATOR		

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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.)*

Change of operator to:

Richard Mainord
P.O. Box 724
Blanding, Utah 84511

Effective date: May 16, 1983

RECEIVED
SEP 26 1984
DIVISION OF OIL GAS & MINING

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct
SIGNED W M Sweat TITLE Director of Drg & Prod DATE May 11, 1983

(This space for Federal or State office use)

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

*See Instructions on Reverse Side