

FILE NOTATIONSEntered in NID File

Entered On S R Sheet _____

Location Map Placed _____

Card Indexed

IWR for State or Fee Land _____

Checked by Chief _____

Copy NID to Field Office _____

Approval Letter _____

Disapproval Letter _____

COMPLETION DATA:

Date Well Completed _____

Location Inspected _____

OW _____ WW _____ TA _____

Bond released _____

GW _____ OS _____ PA _____

State of Fee Land _____

LOGS FILED

Driller's Log _____

Electric Logs (No.) _____

E _____ I _____ E-I _____ GR _____ GR-N _____ Micro _____

Lat. _____ Mid. _____ Sonic _____ Others _____

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

5. Lease Designation and Serial No.

ML-28642

6. If Indian, Allottee or Tribe Name

7. Unit Agreement Name

8. Farm or Lease Name

West Rozel State

9. Well No.

#4

10. Field and Pool, or Wildcat

Wildcat

11. Sec., T., R., M., or Bk. and Survey or Area

Sec. 12 T8N, R8W

12. County or Parrish 13. State

Box Elder Utah

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work

DRILL

DEEPEN

PLUG BACK

b. Type of Well

Oil Well

Gas Well

Other

Single Zone

Multiple Zone

2. Name of Operator

Amoco Production Company

3. Address of Operator

P.O. Box 17675, Salt Lake City, UT 84117

4. Location of Well (Report location clearly and in accordance with any State requirements.)

At surface

SW/4 SW/4 Sec. 12 2300' FNL & 200' FWL

At proposed prod. zone

14. Distance in miles and direction from nearest town or post office*

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

200'

16. No. of acres in lease

17. No. of acres assigned to this well

18. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft.

19. Proposed depth

3,000'

20. Rotary or cable tools

Rotary

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

22. Approx. date work will start*

When Approved

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
Driven	20"		350'	
17 1/2"	13 3/8"		1886'	Suff. to circulate to surface Upon logging, cement from above basalt to surface
12 1/4"	9 5/8"		3000'	

RECEIVED
JUL 18 1980

APPROVED BY THE DIVISION OF OIL, GAS, AND MINING
DATE: 7-25-80
BY: *W.J. Minder*

TIGHT HOLE

DIVISION OF OIL, GAS & MINING

Propose to drill a well on West Rozel structure. Well to be drilled in the Great Salt Lake in compliance with the State of Utah "Operating Rules and Regulations Governing Drilling Procedures in the Great Salt Lake" adopted July 18, 1973. An Oil Spill Contingency Plan is on file with your office.

*Note: Survey plats will be forwarded to your office upon preparation.

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: *W.J. Minder* Title: Dist. Admin. Supervisor Date: 7-15-80

(This space for Federal or State office use)

Permit No. Approval Date

Approved by Title Date

Conditions of approval, if any:

ATTACHMENT TO FORM OGC-1a

West Rozel State Unit #4

1. Geologic name of the surface formation: Tertiary
2. Estimated tops of geological markers:

1st Basalt	1886'
2nd Basalt	2770'

3. Estimated depths anticipated to encounter water, oil, or gas, and other mineral-bearing formations:

See Item #2 above

4. Casing Program: See Form OGC-1a, Item #23
5. Operators specifications for pressure control equipment are shown on the attached schematic diagram. Testing of such shall be in compliance with the "Operating Rules and Regulations Governing Drilling Procedures in the Great Salt Lake".
6. Mud Program:

Surface - Total Depth: Low solid, non-dispersed,
8.8-9.3#/gal. Viscosity
35 to 45 sec.

7. Testing Program:

Borehole gravimeter and televiwer may be run at TD and will be determined by exploration department. DST's as determined by Denver Exploration department. Expect three: will depend on shows.

Logging Program:

Dual induction-SFL (or Dual	Base of conductor pipe to TD
Laterlog if mud properties require	" " " " " "
Int. BHC-GR sonic w/Caliper	" " " " " "
CNL-FDC w/CTR	" " " " " "
High resolution dipmeter	" " " " " "

Coring Program:

2	30'	cores in Basalt at 1886'
1	30'	core in Basalt at 2770'

ATTACHMENT TO FORM OGC-1a
West Rozel State Unit #4
Page Two

Stimulation Program:

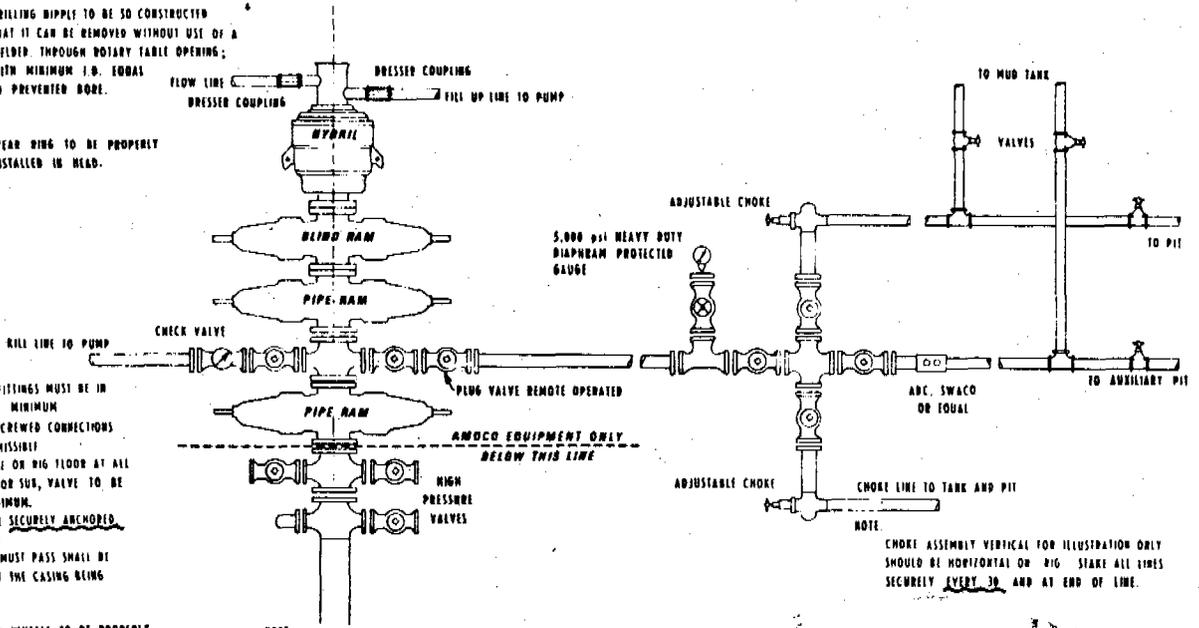
To be determined by the Denver Division office upon completion of drilling operations.

8. No abnormal pressures or temperatures are anticipated.
9. It is anticipated that drilling operations will commence when approved and duration of operations will be approximately 30 days.

EXHIBIT BOP-5000
MINIMUM BLOW-OUT PREVENTER REQUIREMENTS
5,000 psi W.P.

NOTE:

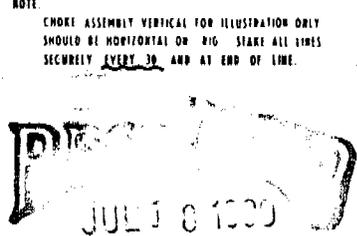
- 1 DRILLING RIPLEY TO BE SO CONSTRUCTED THAT IT CAN BE REMOVED WITHOUT USE OF A WELDER THROUGH ROTARY TABLE OPENING; WITH MINIMUM I.D. EQUAL TO PREVENTER BORE.
- 2 WEAR RING TO BE PROPERLY INSTALLED IN HEAD.



NOTE:

- 1 BLOW OUT PREVENTERS AND ALL FITTINGS MUST BE IN GOOD CONDITION 5,000 psi W.P. MINIMUM
- 2 ALL FITTINGS TO BE FLANGED SCREWED CONNECTIONS DOWNSTREAM FROM CHOKES PERMISSIBLE
- 3 SAFETY VALVE MUST BE AVAILABLE ON RIG FLOOR AT ALL TIMES WITH PROPER CONNECTION OR SUB. VALVE TO BE FULL BORE 5,000 psi W.P. MINIMUM.
- 4 ALL CHOKE AND KILL LINES TO BE SECURELY ANCHORED, ESPECIALLY ENDS OF CHOKES LINES
- 5 EQUIPMENT THROUGH WHICH BIT MUST PASS SHALL BE AS LARGE AS INSIDE DIAMETER OF THE CASING BEING DRILLED THROUGH
- 6 KELLY COCK OR KELLY
- 7 EXTENSION WRENCHES AND HAND WHEELS TO BE PROPERLY INSTALLED AND BRACED AT ALL TIMES
- 8 RIG FLOOR BLOW-OUT PREVENTER CONTROL TO BE LOCATED AS CLOSE TO DRILLERS POSITION AS FEASIBLE
- 9 BLOW-OUT PREVENTER CLOSING EQUIPMENT TO INCLUDE 40 GALLON ACCUMULATOR, TWO INDEPENDENT SOURCES OF PUMP POWER ON EACH CLOSING UNIT INSTALLATION. AND MEET ALL IADC SPECIFICATIONS.

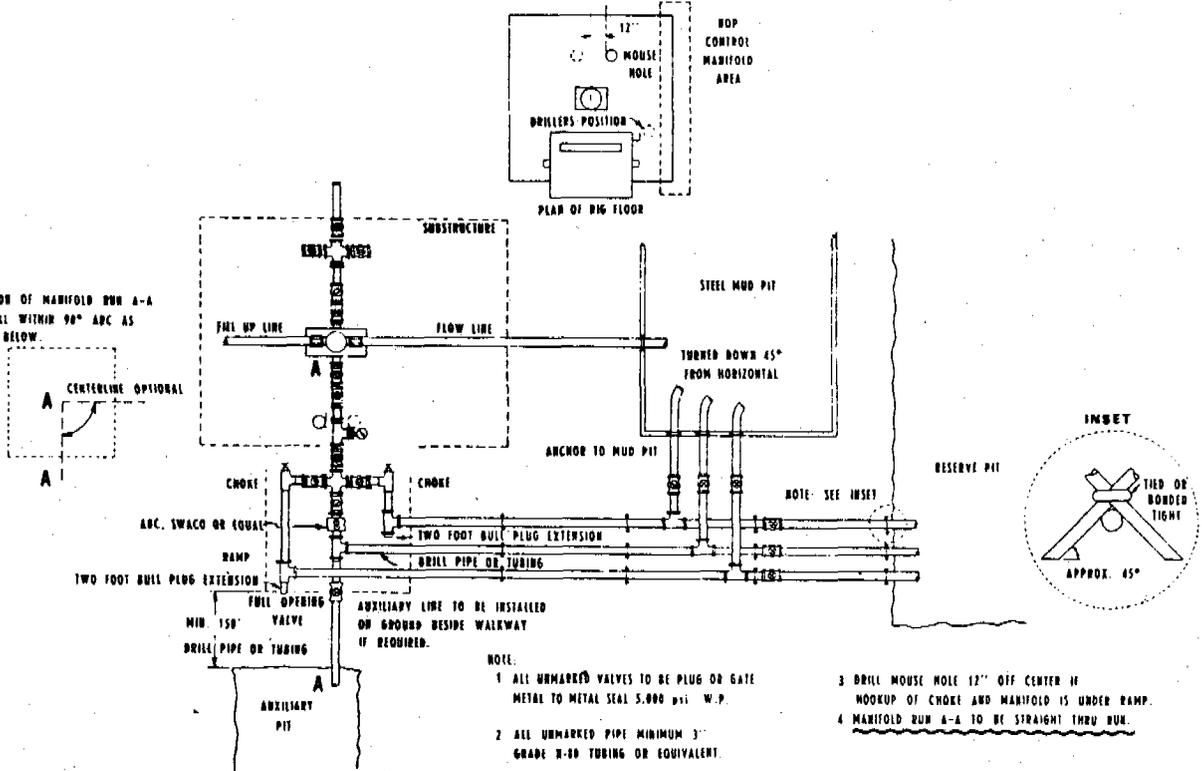
NOTE:
ALL VALVES TO BE FULL OPENING.



DIVISION OF
OIL, GAS & MINING

NOTE:

DIRECTION OF MANIFOLD RUN A-A OPTIONAL WITHIN 90° ARC AS SHOWN BELOW.



NOTE:

- 1 ALL UNMARKED VALVES TO BE PLUG OR GATE METAL TO METAL SEAL 5,000 psi W.P.
- 2 ALL UNMARKED PIPE MINIMUM 3" GRADE N-80 TUBING OR EQUIVALENT.
- 3 DRILL MOUSE HOLE 12" OFF CENTER IF HOOKUP OF CHOKE AND MANIFOLD IS UNDER RAMP.
- 4 MANIFOLD RUN A-A TO BE STRAIGHT THRU RUN.

Amoco Production Company
STANDARD ASSEMBLY FOR FLUID
OPERATED TRIPLE BLOW-OUT PREVENTER
5,000 psi W.P.

CONFIDENTIAL

** FILE NOTATIONS **

DATE: July 21, 1980
 OPERATOR: Amoco Production Co
 WELL NO: W. Royal State #4
 Location: Sec. 12 T. 8N R. 8W County: Boyer Elder

File Prepared: Entered on N.I.D.:
 Card Indexed: Completion Sheet:

API Number 43-003-30015

CHECKED BY:

Petroleum Engineer: M.J. Minder 7-25-80

Director: OK special approval letter for Great Salt Lake

Administrative Aide: _____

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 Plotted on Map

Approval Letter Written

Hot Line P.I.

Special approval letter on G.S.L. (take next letter from other Great Salt Lake file)

July 30, 1980

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

RE: Well No. West Rozel State #4, Sec. 12, T. 8N, R. 8W, Box Elder County,

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to oil well is hereby granted in accordance with the Order issued in Cause No. 150-2, dated November 20, 1974; and the "Operating Rules and Regulations Governing Drilling Procedures in the Great Salt Lake," adopted July 18, 1973, by the Board of Oil, Gas and Mining.

However, said approval shall be conditional upon a surveyor's plat being furnished this office in accordance with Rule C-4(a), General Rules and Regulations and Rules of Practice and Procedure.

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

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

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

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

Approval Well No. West Rosel State #4
July 30, 1980
Page Two

The API number assigned to this well is State #4: 43-003-30015.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Cleon B. Feight
Director

/bh

cc: Donald Prince

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.)		5. LEASE DESIGNATION AND SERIAL NO. ML - 28642	
1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Amoco Production Company		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR P.O. Box 17675, Salt Lake City, UT 84117		8. FARM OR LEASE NAME West Rozei State	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface SW/4 NW/4 Sec.12 2300' FNL & 200' FWL		9. WELL NO. #4	
14. PERMIT NO. 43-003-30015		15. ELEVATIONS (Show whether DF, ST, CR, etc.) 4200' Lake Level	
		10. FIELD AND POOL, OR WILDCAT Wildcat	11. SEC., T., R., M., OR BLK. AND SUBVY OR AREA Sec 12, T8N-R8W
		12. COUNTY OR PARISH Box Elder	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 <input type="checkbox"/>	FULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	

(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.)*

Amoco Production Company abandoned the subject well as follows:

TD: 2210'

Casing: 30" SA 99'
20" SA 319'
13-3/8" SA 2034'

Plugs: 140 sx plug on bottom
: 100 sx plug @ 2050' top @ 1907'
: Cut 13-3/8", 20" & 30" @ 50' KB
: 100 sx plug in 13-3/8" @ 160' back to mud line

TIGHT HOLE

Verbal approval received from Jack Fite, U.O.G. & M.C. Well plugged and abandoned 11/17/80.

RECEIVED

DEC 22 1980

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

SIGNED E. R. Nicholas TITLE Administrative Supervisor DATE 12/1/80

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:



Amoco Production Company

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

Martin Zimmerman
District Superintendent

December 10, 1980

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

File: MZ-1616-031/WF

Survey Plats - West Rozel State Unit #4, Section 21, T8N, R8W, Box
Elder County, Utah

Enclosed herewith are copies of the final survey plats for the subject well.

Please note that the actual footage location as surveyed with the anchor pilings driven and the barge in place, does differ from the location indicated on the original "Application for Permit to Drill". It is requested that your files be corrected to reflect the actual footage as indicated on the attached plats.

Should you require additional information relative to the West Rozel State Unit #4, please advise.

Martin Zimmerman

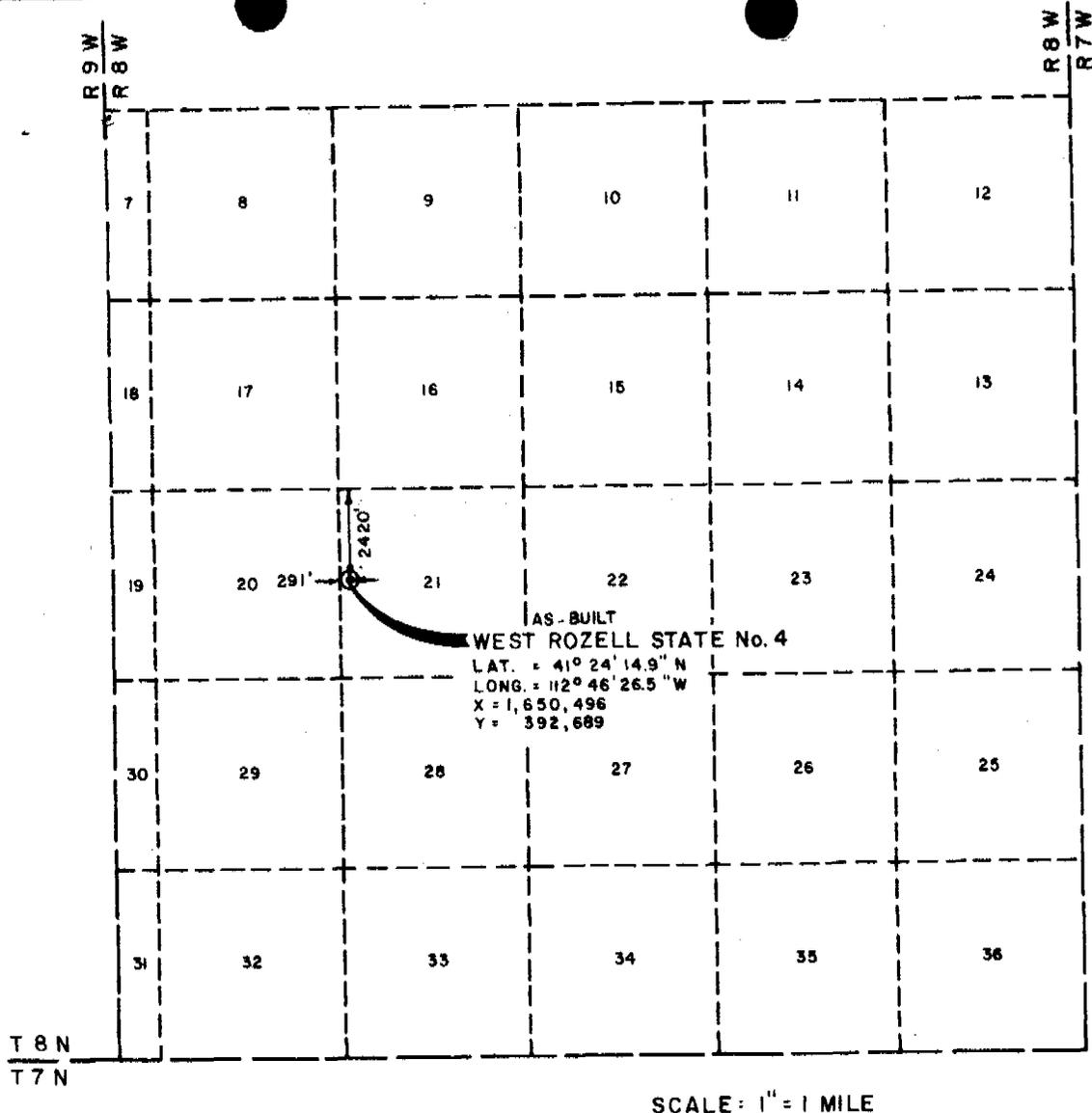
Attachments

SW

RECEIVED

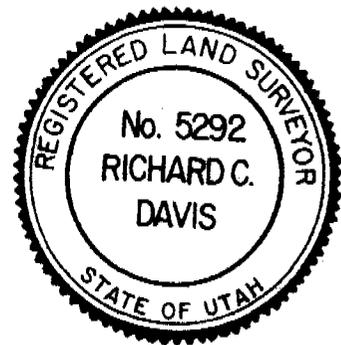
DEC 15 1980

DIVISION OF
OIL, GAS & MINING



CERTIFICATE OF SURVEYOR

I hereby certify that I am properly registered and licensed to practice land surveying in the State of Utah and that this plat represents a location survey made by me or under my supervision, and that all dimensions and other details are correct.



SEPT. 29, 1980 Date Richard C. Davis Surveyor

Date of Survey Nov. 13, 1980

- NOTE:
 1. Coordinates are Utah State
 2. Revise to As-Built 11/20/80



DEC 15 1980

DIVISION OF OIL, GAS & MINING

AS-BUILT
WEST ROZELL STATE No. 4
 Located in NW 1/4 SEC. 21, T. 8N., R. 8W., SALT LAKE MERIDIAN, UTAH
 Surveyed for
AMOCO PRODUCTION CO.
 Salt Lake City, Utah
 Surveyed by
F. M. LINDSEY & ASSOC.
 LAND & HYDROGRAPHIC SURVEYORS
 2502 West Northern Lights Boulevard Box 4-081
 Anchorage Alaska

5

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

5. LEASE DESIGNATION AND SERIAL NO.
ML - 28642
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME
West Roze] State
9. WELL NO.
#4
10. FIELD AND POOL, OR WILDCAT
Wildcat
11. SEC., T., R., M., OR BLOCK AND SURVEY
OR AREA
Sec. 12 T8N-R8W

12. COUNTY OR PARISH
Box Elder
13. STATE
Utah

14. PERMIT NO. 43-003-30015
DATE ISSUED 7/30/80
15. DATE SPUNDED 11/2/80
16. DATE T.D. REACHED 11/13/80
17. DATE COMPL. (Ready to prod.) 11/17/80
18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 4200' Lake Level
19. ELEV. CASINGHEAD -----
20. TOTAL DEPTH, MD & TVD 2210'
21. PLUG, BACK T.D., MD & TVD -----
22. IF MULTIPLE COMPL., HOW MANY* -----
23. INTERVALS DRILLED BY Surface-TD
ROTARY TOOLS
CABLE TOOLS
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
None
25. WAS DIRECTIONAL SURVEY MADE
Yes

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____
b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. RESVR. Other P & A

2. NAME OF OPERATOR
Amoco Production Company

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface SW/4 NW/4 Sec. 12, 2300' FNL & 200' FWL
At top prod. interval reported below
At total depth

26. TYPE ELECTRIC AND OTHER LOGS RUN
DIL-SFL Caliper Sonic CNL-FDC w/GR Dipmeter Temp. Survey Gravimeter
27. WAS WELL CORED
Yes

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	68#	2034'	17 1/2	2425 sx	-----

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
		None		

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
	None	

31. PERFORATION RECORD (Interval, size and number)
None

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
	None

33.* PRODUCTION

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

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

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

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

35. LIST OF ATTACHMENTS

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

SIGNED E.R. Nichol TITLE Administrative Supervisor DATE 12/15/80

TIGHT HOLE

P & A RECEIVED

DEC 20 1980

DIVISION OF OIL, GAS & MINING

*(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 38, 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		38. GEOLOGIC MARKERS				
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TOP
						TRUS VERT. DEPTH
Core #1	2036'	2042'	Cut 6' Rec 6' Basalt	Basalt	2025'	
#2	2042'	2056'	Cut 14' Rec 11' Basalt			
#3	2056'	2072'	Cut 16' Rec 13' Basalt			
#4	2072'	2092'	Cut 20' Rec 15' Basalt & Calcite			
#5	2092'	2107'	Cut 15' Rec 14' Basalt			
DST #1	2034'	2050'	Recovered Salt H ₂ O & Salt H ₂ O Cut mud 10 minutes: 2 1/4 psi B.H. Final Flow: 934 Initial Hydrostatic: 958 B.H. Static: 1034			