

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

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

5. Lease Designation and Serial No.

FEE

6. If Indian, Allottee or Tribe Name

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work

DRILL

DEEPEN

PLUG BACK

7. Unit Agreement Name

b. Type of Well

Oil Well

Gas Well

Other

Single Zone

Multiple Zone

8. Farm or Lease Name

2. Name of Operator

Amoco Production Company

Champlin 458 Amoco "G"

9. Well No.

#1

3. Address of Operator

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

10. Field and Pool, or Wildcat

Anschutz Ranch East

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

At surface

NW/4 SW/4 Sec. 29 22.4' FWL & 2203.9' FSL

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

Sec. 29 T4N-R8E

At proposed prod. zone

BHL: 1980' FSL & 660' FWL

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

App. 18 miles SW of Evanston, Wyoming

12. County or Parrish 13. State

Summit Utah

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

22.4'

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

14,080'

20. Rotary or cable tools

Rotary

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

7739' Top of Hub

22. Approx. date work will start*

When Approved

23.

PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
17 1/2"	13-3/8"	61#	2900'	Circ.
12 1/4"	9-5/8"	40, 43.5, 53.5 & 63.8#	10,230'	*
8 1/2"	7"	23, 29 & 32#	14,080'	*

* As determined from open hole logs

Amoco Production Company proposes to develop Nugget reserves.

The subject well is to be drilled in accordance with the Order issued in Clause #183-2.

See Attachments

APPROVED BY THE DIVISION OF OIL AND GAS MINING
DATE: 12/2/80
BY: CB Feight

RECEIVED

NOV 28 1980

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: E.R. Nicholas

Title: Administrative Supervisor

Date: 11-24-80

(This space for Federal or State office use)

Permit No. Approval Date

Approved by Title Date

Conditions of approval, if any:

Champlin 458 Amoco "G" #1

- 1) Geological name of the surface formation: Tertiary
- 2) Estimated tops of geological markers:

<u>Marker</u>	<u>Depth</u>
Tertiary	Surface
Aspen	4080'
Bear River	4596'
Garnet	5623'
Stump	8572'
Preuss	8629'
Twin Creek	10,080'
Nugget	11,480'
Ankareh	13,980'

- 3) Estimated depths anticipated to encounter water, oil, gas or other mineral bearing formations: See Item #2, above
- 4) Casing Program: See Form OGC-1a, Item #24
- 5) Operators minimum specifications for pressure control equipment are explained on attached schematic diagram. Testing of such is to be performed daily and noted on the IADC Daily Drilling Report. After running surface casing and prior to drilling out, BOP and other pressure equipment will be tested to the full working pressure rating as shown on the attached diagram. Thereafter, the BOP will be checked daily for mechanical operations only and will be noted on the IADC Daily Drilling Report

6) Mud Program

<u>App. Interval</u>	<u>Type Mud</u>	<u>Wt. #/Gal</u>	<u>Viscosity</u>	<u>W.L. cc/30M</u>
0-2900'	Native	8.4-8.7	As required	NC
2900'-10,230'	LSND*			
10,230'-14080'	LSND	8.5-9.0	32-45	

* Convert to modified salt mud prior to drilling salt section @ 9600'

- 7) Auxilliary Equipment: Kelly cock: floor sub with a full opening valve. 3" choke manifold with remote control choke
- 8) Testing Program: Two-man Hotwire W/Chromatograph

Logging Program

<u>Type</u>	<u>Depth Interval</u>
BHC-GR-Caliper	Surface-TD
DIL-GR	BSC-TD
DLL-MSFL	BSC-TD
FDC-CNL-GR-Caliper	BSC-TD
FIL	BSC-TD
HDT-Directional	

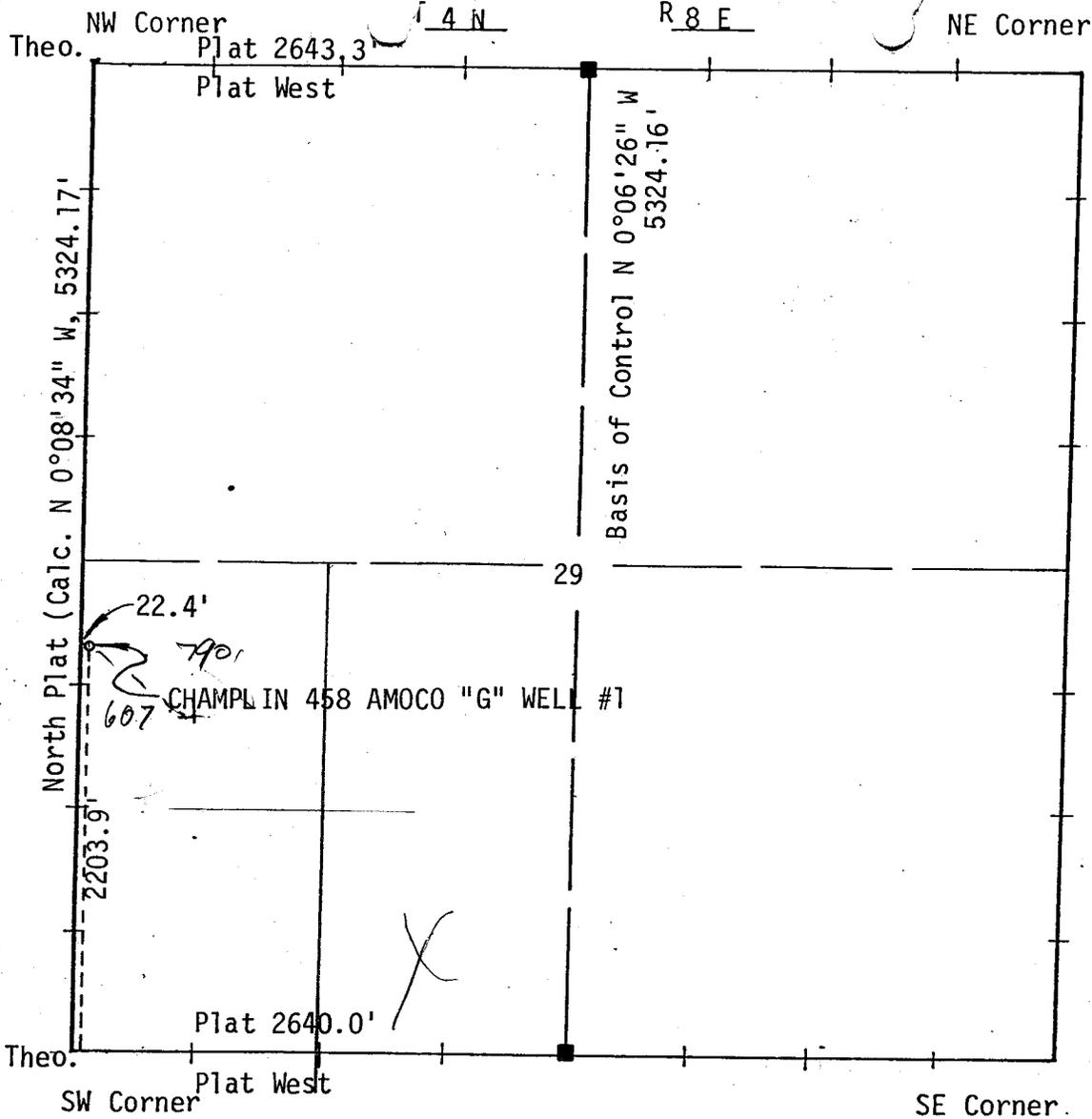
Coring Program:

No cores are scheduled

Stimulation Program:

Perforate W/4 JSPF and acidize W/50 to 100 gallons of HCl per foot of perforation

- 9) No abnormal temperatures, pressures, or H₂S are expected.
- 10) Anticipated starting date will be when approved and the duration of the operations will be approximately 180 days.



I, John A. Proffit of Evanston, Wyoming certify that in accordance with a request from Rob Orman of Evanston, Wyoming for Amoco Production Company I made a survey on the 31st day of October, 1980 for Location and Elevation of the Champlin 458 Amoco "G" Well #1 as shown on the above map, the wellsite is in the NW $\frac{1}{4}$ SW $\frac{1}{4}$ of Section 29, Township 4N, Range 8E of the Salt Lake Base & Meridian Summit County, State of Utah, Elevation is 7739 Feet Top of Hub Datum U.S.G.S. Quad - Porcupine Ridge, Utah-Wyoming, BM Elevation 7122', NE $\frac{1}{4}$ Section 25, T13N, R121W, 6th P.M., Uinta County, Wyoming

Reference point	<u>N 60° E, 300'</u>	Elev. top of pin	<u>7717.1'</u>
Reference point	<u>N 60° E, 400'</u>	"	<u>7710.1'</u>
Reference point	<u>South 180'</u>	"	<u>7730.5'</u>
Reference point	<u>East 185'</u>	"	<u>7721.4'</u>

John A. Proffit 11/20/80
 JOHN A. PROFFIT UTAH R.L.S. NO. 641

DATE: November 13, 1980
 JOB NO.: 80-10-73

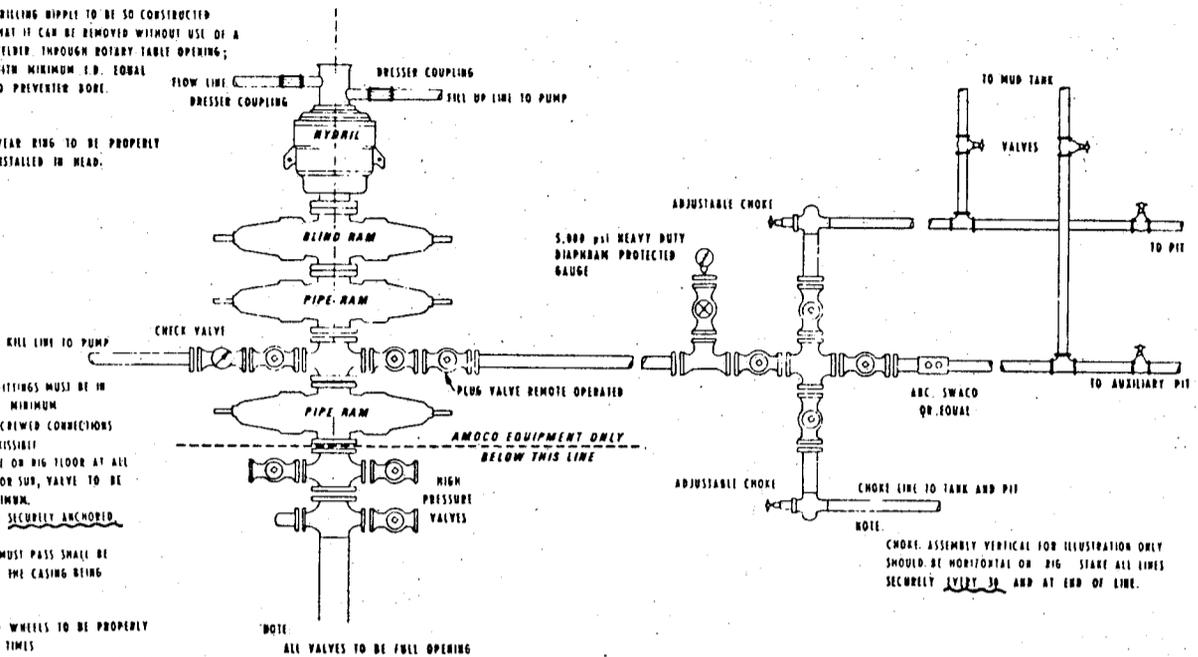
UINTA ENGINEERING & SURVEYING, INC.
 808 MAIN STREET, EVANSTON, WYOMING

EXHIBIT BOP-8000
MINIMUM BLOW-OUT PREVENTER REQUIREMENTS
5,000 psi W.P.

NOTE:

1 DRILLING HIPPLET 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.

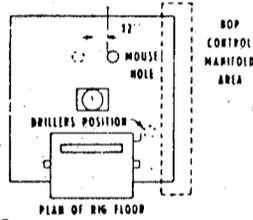


NOTE:
ALL VALVES TO BE FULL OPENING

NOTE:
CHOKER ASSEMBLY VERTICAL FOR ILLUSTRATION ONLY SHOULD BE HORIZONTAL OR PIG STAKE ALL LINES SECURELY TIGHT TO AND AT END OF LINE.

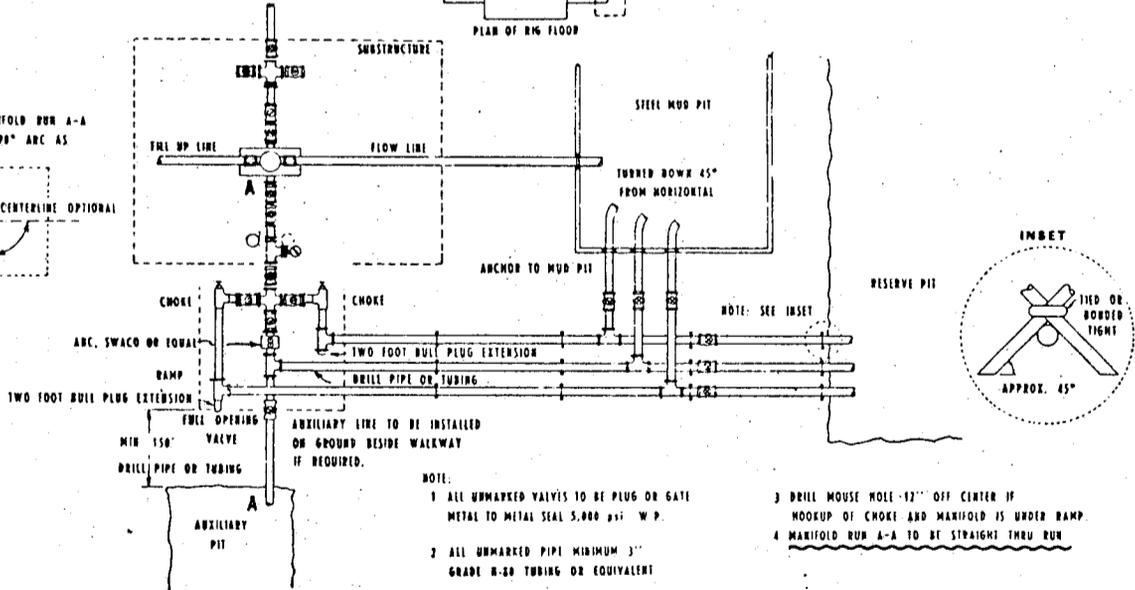
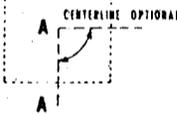
NOTE:

- 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 CHOKER AND KILL LINES TO BE SECURELY ANCHORED ESPECIALLY ENDS OF CHOKER 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 80 GALLON ACCUMULATOR TWO INDEPENDENT SOURCES OF PUMP POWER OR EACH CLOSING UNIT INSTALLATION, AND MEET ALL IADC SPECIFICATIONS.



NOTE:

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

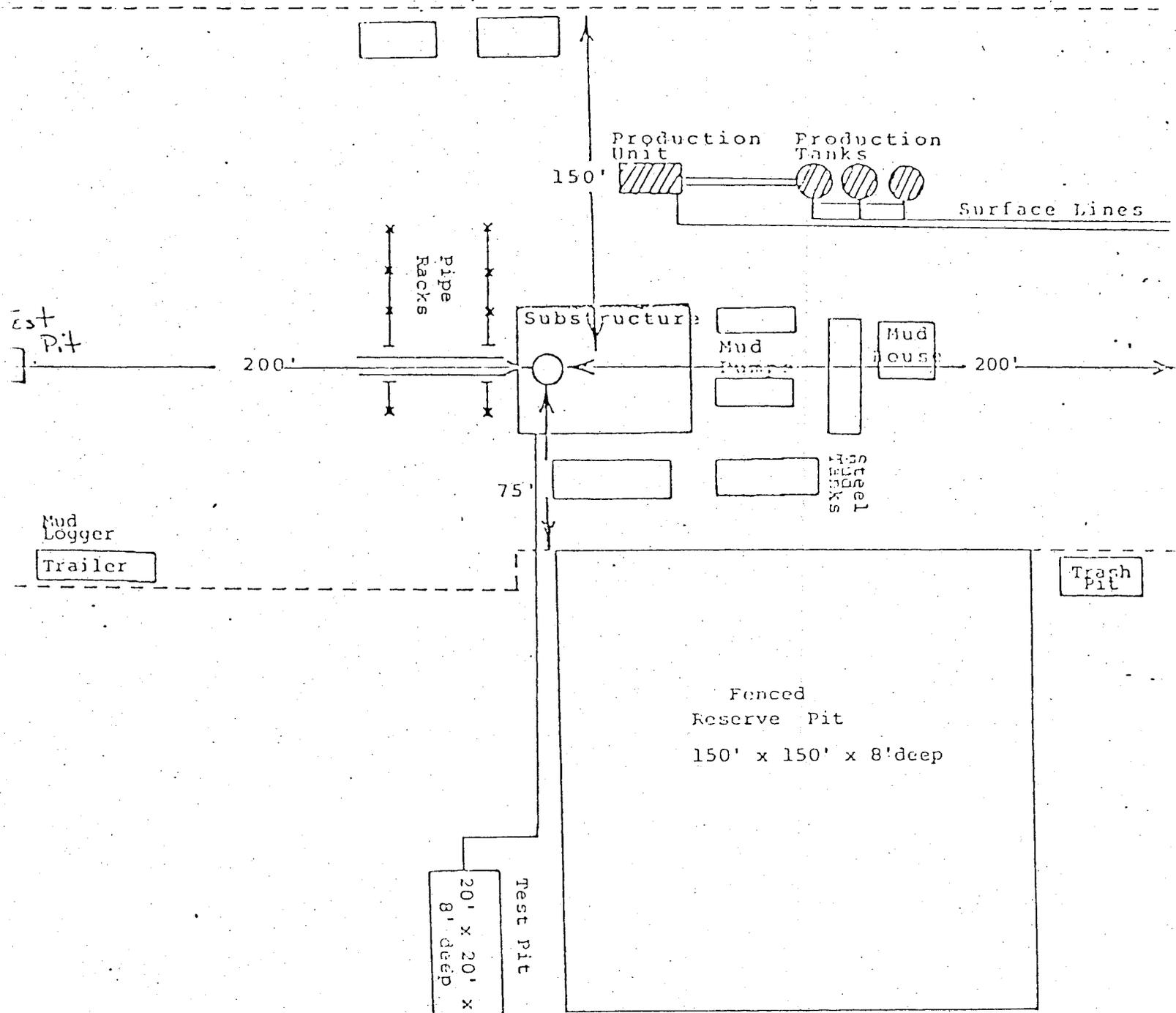


NOTE:

- 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 CHOKER 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.

Tool Pushers Trailer Amoco Company Trailer



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

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

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

TYPICAL
LOCATION
LAYOUT

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

EXHIBIT "D"

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

SUBMIT IN DUPLICATE*
(Other instructions on reverse side)

5. Lease Designation and Serial No.

FEE

6. If Indian, Allottee or Tribe Name

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

NW/4 SW/4 Sec. 29 22.4' FWL & 2203.9' FSL

At proposed prod. zone

BHL: 1980' FSL & 660' FWL

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

App. 18 miles SW of Evanston, Wyoming

7. Unit Agreement Name

8. Farm or Lease Name

Champlin 458 Amoco "G"

9. Well No.

#1

10. Field and Pool, or Wildcat

Anschutz Ranch East

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

Sec. 29 T4N-R8E

12. County or Parrish 13. State

Summit Utah

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

22.4'

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

14,080'

20. Rotary or cable tools

Rotary

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

7739' Top of Hub

22. Approx. date work will start*
When Approved

23.

PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
17 1/2"	13-3/8"	61#	2900'	Circ.
12 1/4"	9-5/8"	40, 43.5, 53.5 & 63.8#	10,230'	*
8 1/2"	7"	23,29 & 32#	14,080'	*

* As determined from open hole logs

Amoco Production Company proposes to develop Nugget reserves.

The subject well is to be drilled in accordance with the Order issued in Clause #183-2.

See Attachments

RECEIVED

NOV 26 1980

DIVISION OF
OIL, GAS & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

Original Signed By

Signed

E. R. NICHOLSON

Title Administrative Supervisor

Date 11-24-80

(This space for Federal or State office use)

Permit No.

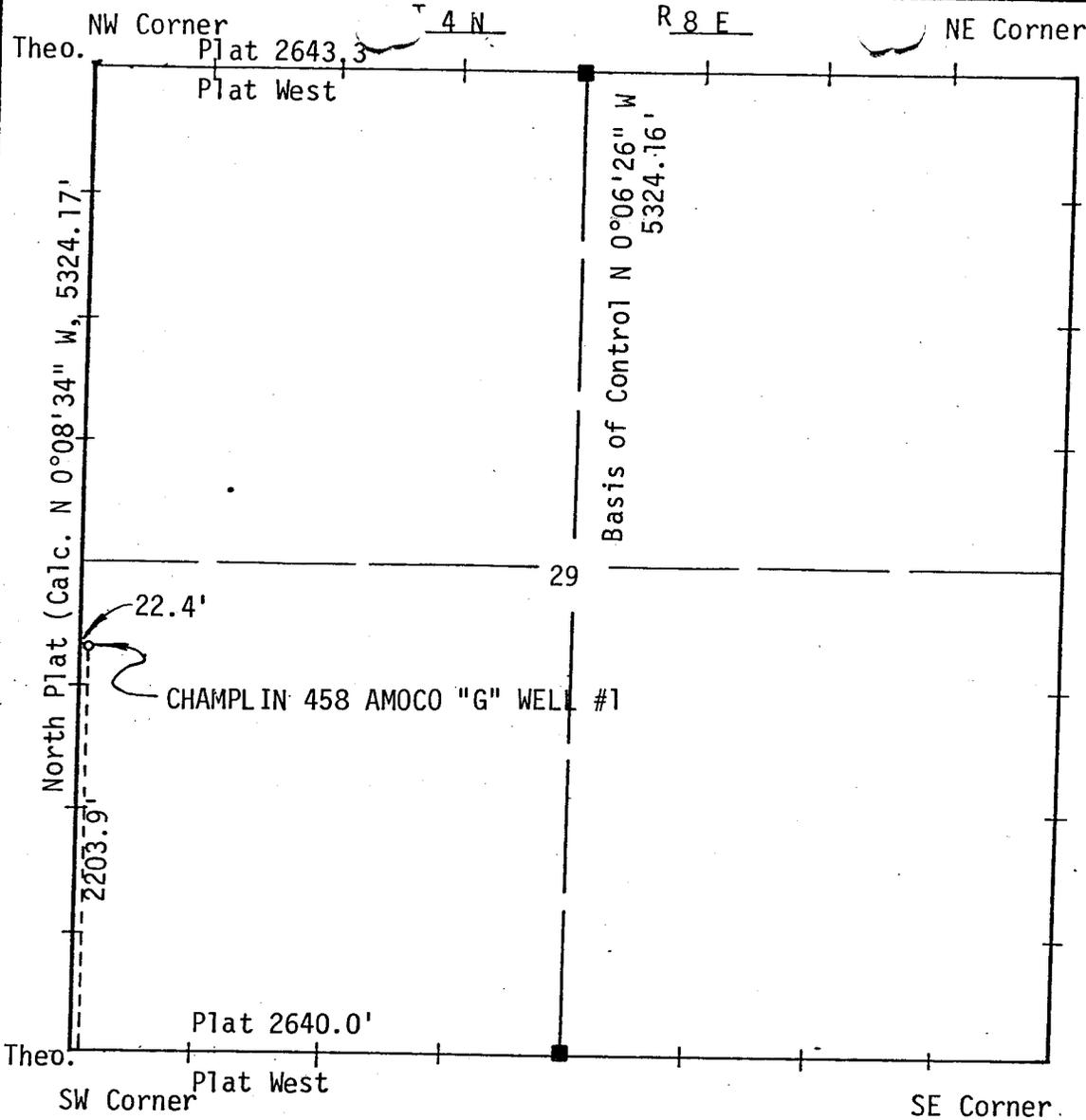
Approval Date

Approved by

Title

Date

Conditions of approval, if any:



I, John A. Proffit of Evanston, Wyoming certify that in accordance with a request from Rob Orman of Evanston, Wyoming for Amoco Production Company I made a survey on the 27th day of October, 1980 for Location and Elevation of the Champlin 458 Amoco "G" Well #1 as shown on the above map, the wellsite is in the NW $\frac{1}{4}$ SW $\frac{1}{4}$ of Section 29, Township 4N, Range 8E of the Salt Lake Base & Meridian Summit County, State of Utah, Elevation is 7739 Feet Top of Hub Datum U.S.G.S. Quad - Porcupine Ridge, Utah-Wyoming, BM Elevation 7122', NE $\frac{1}{4}$ Section 25, T13N, R121W, 6th P.M., Uinta County, Wyoming

Reference point	<u>N 60° E, 300'</u>	Elev. top of pin	<u>7717.1'</u>
Reference point	<u>N 60° E, 400'</u>	"	<u>7710.1'</u>
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John A. Proffit 11/20/80
 JOHN A. PROFFIT UTAH R.L.S. NO. 641

DATE: November 13, 1980
 JOB NO.: 80-10-73

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

Champlin 458 Amoco "G" #1

- 1) Geological name of the surface formation: Tertiary
- 2) Estimated tops of geological markers:

<u>Marker</u>	<u>Depth</u>
Tertiary	Surface
Aspen	4080'
Bear River	4596'
Garnet	5623'
Stump	8572'
Preuss	8629'
Twin Creek	10,080'
Nugget	11,480'
Ankareh	13,980'

- 3) Estimated depths anticipated to encounter water, oil, gas or other mineral bearing formations: See Item #2, above

- 4) Casing Program: See Form OGC-1a, Item #24

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

- 6) Mud Program

<u>App. Interval</u>	<u>Type Mud</u>	<u>Wt. #/Gal</u>	<u>Viscosity</u>	<u>W.L. cc/30M</u>
0-2900'	Native	8.4-8.7	As required	NC
2900'-10,230'	LSND*			
10,230'-14080'	LSND	8.5-9.0	32-45	

* Convert to modified salt mud prior to drilling salt section @ 9600'

- 7) Auxilliary Equipment: Kelly cock: floor sub with a full opening valve. 3" choke manifold with remote control choke

- 8) Testing Program: Two-man Hotwire W/Chromatograph

Logging Program

<u>Type</u>	<u>Depth Interval</u>
BHC-GR-Caliper	Surface-TD
DIL-GR	BSC-TD
DLL-MSFL	BSC-TD
FDC-CNL-GR-Caliper	BSC-TD
FIL	BSC-TD
HDT-Directional	

Coring Program:

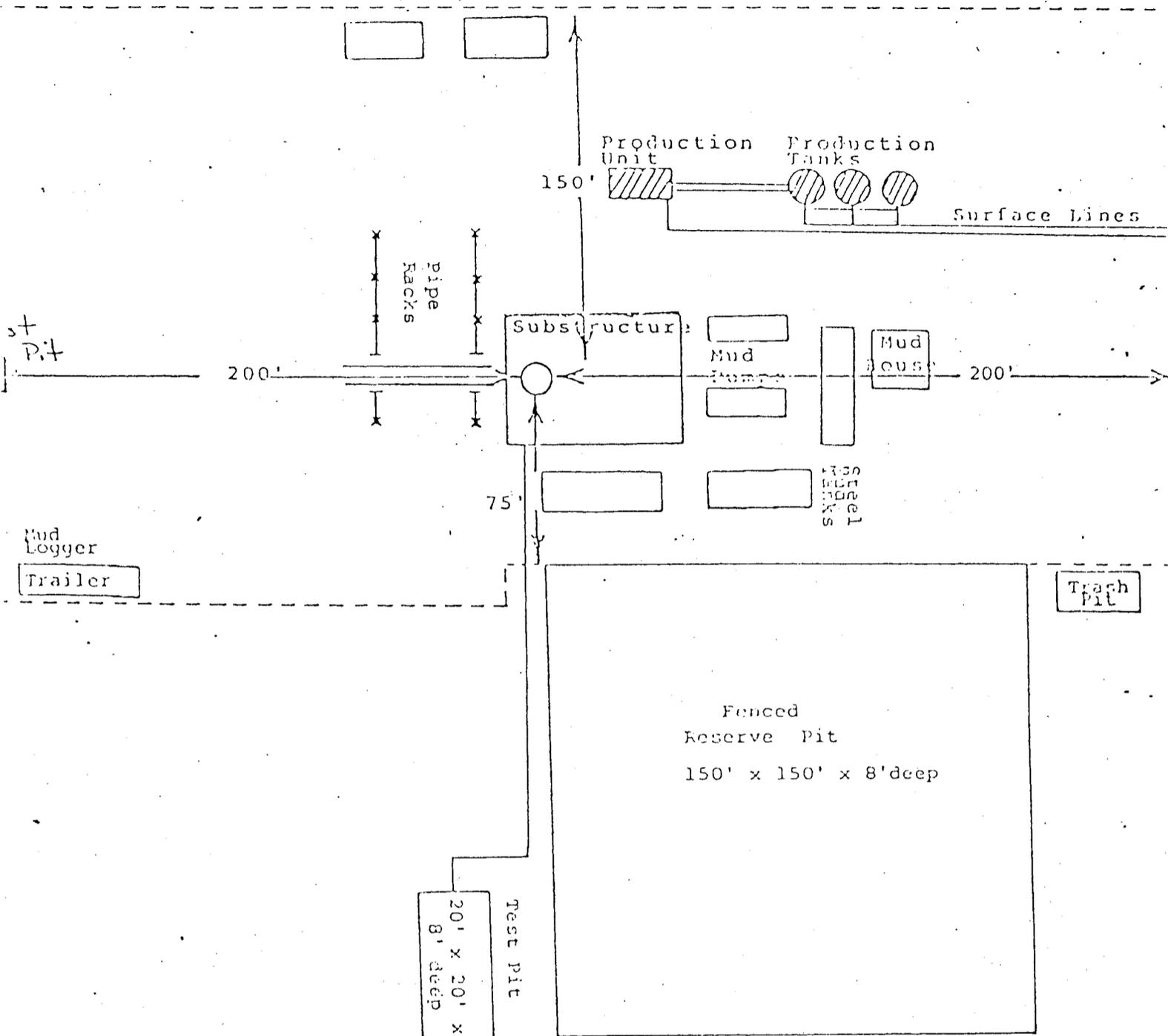
No cores are scheduled

Stimulation Program:

Perforate W/4 JSPF and acidize W/50 to 100 gallons of
HCl per foot of perforation

- 9) No abnormal temperatures, pressures, or H₂S are expected.
- 10) Anticipated starting date will be when approved and the duration of the operations will be approximately 180 days.

Tool Pushers Trailer Amoco Company Trailer



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

--- Dotted lines indicated perimeter of leveled location.

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

TYPICAL
LOCATION
LAYOUT

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

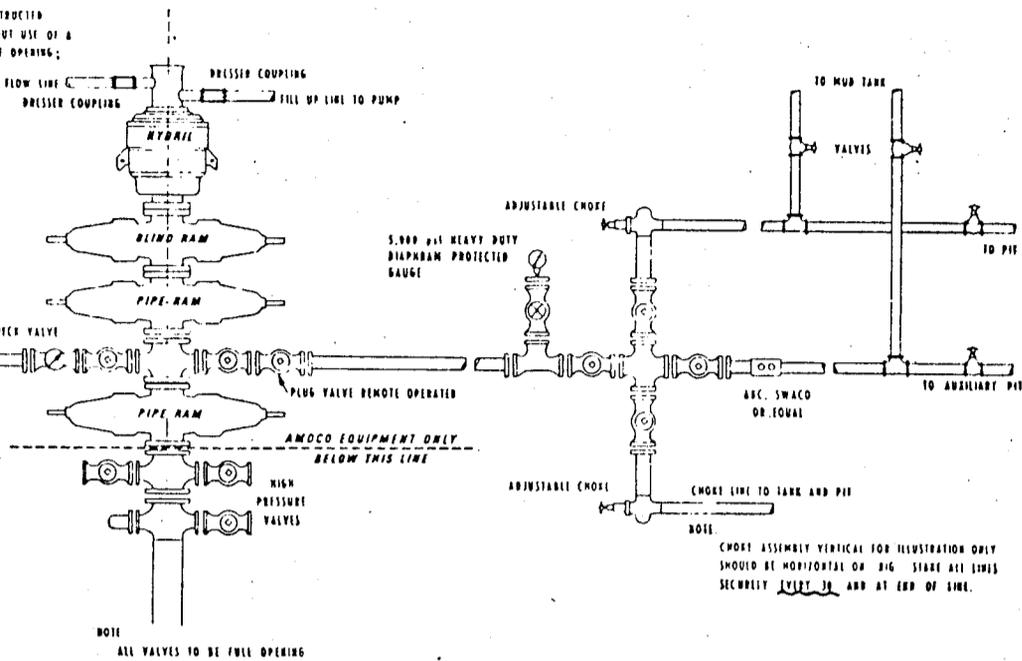
EXHIBIT "D"

EXHIBIT BOP-8000
MINIMUM BLOW-OUT PREVENTER REQUIREMENTS
5,000 psi W.P.

NOTE:

1 DRILLING SUPPLY TO BE SO CONSTRUCTED THAT IT CAN BE REMOVED WITHOUT USE OF A WELDER THROUGH ROTARY TABLE OPERATING; WITH MINIMUM 1 1/2" EQUAL TO PREVENTER BORE

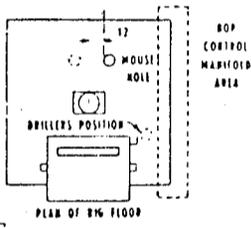
2 WEAR RING TO BE PROPERLY INSTALLED IN HEAD.



NOTE:

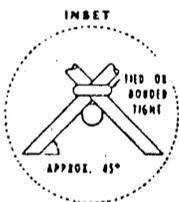
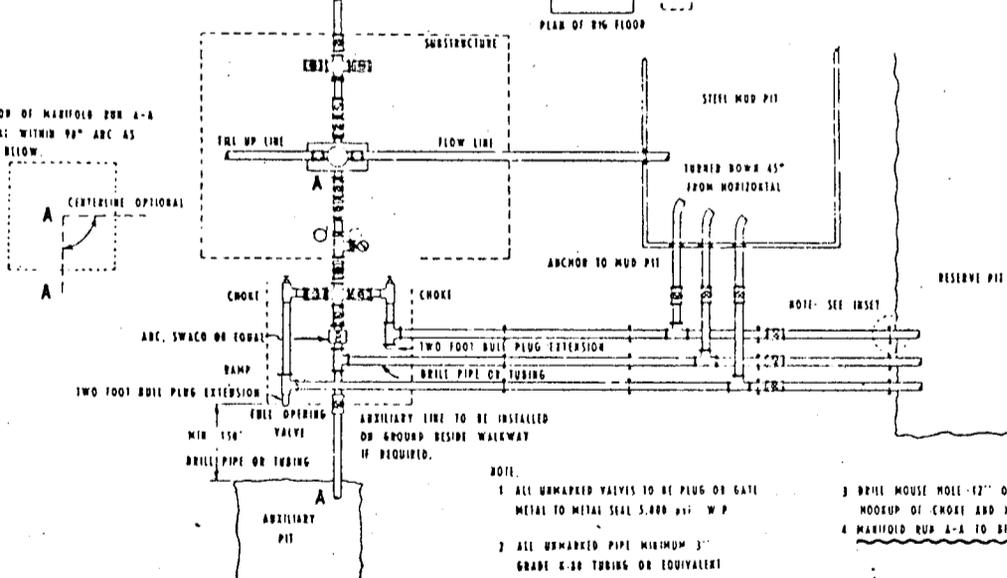
- 1 BLOW-OUT PREVENTERS AND ALL FITTINGS MUST BE IN GOOD CONDITION 5,000 PSI W.P. MINIMUM
- 2 ALL FITTINGS TO BE FLANGED SCREWED CONNECTIONS DOWNSTREAM FROM CHOKES PERMISSIBLE
- 3 SAFETY VALVE MUST BE AVAILABLE ON RIG FLOOR AT ALL TIMES WITH PROPER CONNECTION OR SUP. VALVE TO BE FULL BORE 5,000 PSI W.P. MINIMUM.
- 4 ALL CHOKE AND KILL LINES TO BE SECURELY ANCHORED, ESPECIALLY ENDS OF CHOKE 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 60 GALLON ACCUMULATOR TWO INDEPENDENT SOURCES OF PUMP POWER OR EACH CLOSING UNIT INSTALLATION.
- 10 MEET ALL IADC SPECIFICATIONS

CHOKE ASSEMBLY VERTICAL FOR ILLUSTRATION ONLY SHOULD BE HORIZONTAL ON RIG STAKE ALL LINES SECURELY TIED TO AND AT END OF LINE.



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 K-80 TUBING OR EQUIVALENT
- 3 DRILL MOUSE HOLE 12" OFF CENTER IF HOODUP 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.

** FILE NOTATIONS **

R

DATE: Dec 1, 1980

OPERATOR: Amoco Production Company

WELL NO: Champion 458 Amoco "D"

Location: Sec. 29 T. 4N R. 8E County: Summit

File Prepared:

Entered on N.I.D.:

Card Indexed:

Completion Sheet:

API Number 43-043-30154

CHECKED BY:

Petroleum Engineer: _____

Director: OK as per order issued in Case 183-2

Administrative Aide: _____

APPROVAL LETTER:

Bond Required:

Survey Plat Required:

Order No. 183-2 dtd 23 April 80

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.

December 8, 1980

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

Re: Well No. Champlin 458-Amoco "G" #1
Sec. 29, T. 4N, R. 8E
Summit County, Utah

Insofar as this office is concerned, approval to drill the above referred to gas well is hereby granted in accordance with the Order issued in Cause No. 183-2 dated April 23, 1980.

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

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

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

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

The API number assigned to this well is 43-043-30154.

Sincerely,

DIVISION OF OIL, GAS, AND MINING

Cleon B. Feight
Cleon B. Feight
Director

/ka
cc:



SCOTT M. MATHESON
Governor

GORDON E. HARMSTON
Executive Director,
NATURAL RESOURCES

CLEON B. FEIGHT
Director

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING
1588 West North Temple
Salt Lake City, Utah 84116
(801) 533-5771

OIL, GAS, AND MINING BOARD

CHARLES R. HENDERSON
Chairman

JOHN L. BELL
C. RAY JUVELIN
THADIS W. BOX
MAXILIAN A. FARBMAN
EDWARD T. BECK
E. STEELE McINTYRE

April 2, 1981

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

Re: SEE ATTACHED SHEET

Gentlemen:

In reference to above mentioned wells, considerable time has gone by since approval was obtained from this office.

This office has not recieved any notification of spudding. If you do not intend to drill these wells, please notify this Division. If spudding or any other activity has taken place, please send necessary forms. (If we do not hear from your company within fifteen (15) days, we will assume you do not intend to drill these wells and action will be taken to terminate the application.) If you plan on drilling this location at a later date, please notify as such.

Your prompt attention to the above will be greatly appreciated.

Your truly,
DIVISION OF OIL, GAS, AND MINING

SANDY BATES
CLERK-TYPIST

ATTACHED SHEET

1. Well No. Champlin 846-Amoco "B" #1
Sec. 19, T. 5N. R. 8E.
Summit, County, Utah

2. Well No. #2
Sec. 21, T. 4N. R. 8E.
Summit County, Utah

3. Well NO. Champlin 458-Amoco "G" #1
Sec. 29, T. 4N. R. 8E.
Summit County, Utah

4. Well NO. Strawberry River #1
Sec. 26, T. 4S. R. 12W.
Wasatch County, Utah

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

SUNDRY NOTICES AND REPORTS ON WELLS <small>(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.)</small>		5. LEASE DESIGNATION AND SERIAL NO. Fee
1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		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, Utah 84117		8. FARM OR LEASE NAME Champlin 458 Amoco "G"
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface NW/4 SW/4 Sec. 29, 22' FWL and 2204' FSL		9. WELL NO. #1
14. PERMIT NO. 43-043-30154		10. FIELD AND POOL, OR WILDCAT Anschutz Ranch East
15. ELEVATIONS (Show whether DF, RT, OR, etc.) 7739' Top of hub		11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA Sec. 29, T4N, R8E
12. COUNTY OR PARISH Summit		13. STATE Utah

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

NOTICE OF INTENTION TO :		SUBSEQUENT REPORT OF :	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL 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 type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Notice of operations</u> <input checked="" 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.)*

Please accept this sundry notice as Amoco Production Company's notice of current operations on the subject well. Spud occurred on 12-17-80 at 8:00 a.m. Surface casing (13 3/8") was set at 3001' on 1-1-81. Core #1 was taken on 3-3-81. The intermediate string (9 5/8") was set on 3-20-81 at 10,558'. Cores were being taken on 4-2-81 thru 4-13-81.

Also, please accept this sundry as notification of name change on this well from Champlin 458 Amoco "G" #1 to Champlin 458 Amoco "D" #3.

18. I hereby certify that the foregoing is true and correct
 SIGNED [Signature] TITLE District Administrative Supervisor DATE 4/22/81

(This space for Federal or State office use)

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

D

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

STANDARD INSTRUCTIONS ON REVERSE SIDE

2

SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)		5. LEASE DESIGNATION AND SERIAL NO. Fee
1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		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 Champlin 458 Amoco "D"
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2204' FSL & 22' FWL		9. WELL NO. #3
10. FIELD AND POOL, OR WILDCAT Anschutz Ranch East		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 29, T4N, R8E
14. PERMIT NO. 43-043-30154	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 7739' GR	12. COUNTY OR PARISH Summit
		13. STATE Utah

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL 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 type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Report of Operations</u>	<input checked="" 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 advises that the following work has been performed on the subject well:

TD: 13,283' PBTD: 12,560' (retrievable bridge plug)

Casing: 13 3/8" set at 3001'
 9 5/8" set at 10,558'
 7" set at 13,264'
 2 7/8" tubing

Perforations: 12,846' - 12,858'	Tops: Watton Canyon	11,102'
12,802' - 12,820'	Rich	11,503'
12,764' - 12,784'	Nugget	11,852'
	Ankareh	12,977'

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING

12,560' (bridge plug)
 12,500' - 12,510'
 12,420' (packer)

DATE: 7-21-81

BY: Original Signed by C. E. Fox

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

SIGNED _____ TITLE Administrative Supervisor DATE June 26, 1981

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

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

SERIAL (Oil) TRIPLICATE Instructions on reverse side

D

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. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. Fee
2. NAME OF OPERATOR AMOCO PRODUCTION COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P.O. Box 17675 Salt Lake City, UT 84117		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2204' FSL & 22' FWL		8. FARM OR LEASE NAME Champlin 458 Amoco 'D'
14. PERMIT NO. 43-043-30154		9. WELL NO. #3
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 7739' GR		10. FIELD AND POOL, OR WILDCAT Anschutz Ranch East
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 29, T4N, R8E
		12. COUNTY OR PARISH Summit
		13. STATE Utah

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <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 type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Report of Operations</u> <input checked="" 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 advises that the following work has been performed on the subject well:

TD: 13,283' PBD: 12,560' (retrievable bridge plug)

Casing: 13 3/8" set at 3001'
 9 5/8" set at 10,558'
 7" set at 13,264'
 2 7/8" tubing

Perforations: 12,846' - 12,858'	Tops: Watton Canyon	11,102'
12,802' - 12,820'	Rich	11,503'
12,764' - 12,784'	Nugget	11,852'
12,560' (bridge plug)	Ankareh	12,977'
12,500' - 12,510'		
12,420' (packer)		

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING

DATE: 7/21/81

BY: [Signature]

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

SIGNED _____ TITLE Administrative Supervisor DATE June 26, 1981

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

SUBMIT IN DUPLICATE*

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

(See other instructions on reverse side)

5. LEASE DESIGNATION AND SERIAL NO.
Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Champlin 458 Amoco "D"

9. WELL NO.
#3

10. FIELD AND POOL, OR WILDCAT
Anschutz Ranch East

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
Sec. 29, T4N, R8E

12. COUNTY OR PARISH
Summit

13. STATE
Utah

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____

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

2. NAME OF OPERATOR
AMOCO PRODUCTION COMPANY

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 2204' FSL & 22' FWL *NWSW*
At top prod. interval reported below
At total depth 1850' FSL & 607' FWL

14. PERMIT NO. 43-043-30154
DATE ISSUED 12-8-80

15. DATE SPUDDED 12-17-80
16. DATE T.D. REACHED 5-6-81
17. DATE COMPL. (Ready to prod.) 8-13-81
18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 7739' GR
19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 13,283'
21. PLUG, BACK T.D., MD & TVD 13,132'
22. IF MULTIPLE COMPL., HOW MANY* --
23. INTERVALS DRILLED BY --
ROTARY TOOLS
CABLE TOOLS
Surface to TD

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
12,150' - 12,944' Nugget (gross interval)
25. WAS DIRECTIONAL SURVEY MADE Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN
BHC-Sonic-GR; DIL-GR, FDC-CNL-GR, Dipmeter, Velocity Survey
27. WAS WELL CORRED 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"	72#	3001'	17 1/4"	733 sx	
9 5/8"	40#	10,558'	12 1/4"	1300 sx	
7"	23#-29#	13,264'	8 3/4"	600 sx	

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
3 1/2"	12,050'	12,050'

31. PERFORATION RECORD (Interval, size and number)
See Attachment "A"

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.
DEPTH INTERVAL (MD)
AMOUNT AND KIND OF MATERIAL USED
See Attachment "A"

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)					
8-13-81	Flowing	Producing					
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
8-13-81	12	64/64	→	1469	16,600	16	4500:1
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
1675		→	2938	13,200	32	49°	

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

35. LIST OF ATTACHMENTS
Attachment "A"

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

SIGNED *[Signature]* TITLE Administrative Supervisor DATE August 13, 1981

*(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.)

No Drill Stem Tests Conducted

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TOP VEET. DEPTH
			See Attachment "A"			
				Leads Creek	10,732'	
				Watton Canyon	11,102'	
				Boundary Ridge	11,406'	
				Rich	11,453'	
				Slide Rock	11,690'	
				Nugget	11,852'	
				Ankareh	12,977'	

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

31) Perforation Record

12,150' - 12,292'

12,372' - 12,410'

12,454' - 12,590')

12,764' - 12,784')

12,802' - 12,820')

12,846' - 12,858')

12,918' - 12,930')

12,936' - 12,944')

(all w/ 4 JSPF)

32) Stimulation Record

acidized w/14,000 gal. 7 1/2% HCL

acidized w/9,300 gal. 7 1/2% HCL

acidized w/7500 gal. 7 1/2% HCL
in 3 stages

-in addition - 7,000 gal.
7 1/2% HCL in 5 stages

acidized w/2700 gal. 7 1/2% HCL
in 2 stages

- in addition- 7,000 gal.
7 1/2% HCL in 5 stages

27) Core Record:

#1) 10,015' - 10,039'
cut 24' rec. 0

#2) 10,161' - 10,173'
cut 12' rec. 0

#3) 11,908' - 11,945'
cut 39' rec. 38'

#4) 11,947' - 11,988'
cut 41' rec. 40'

#5) 11,988' - 12,036'
cut 48' rec. 46'

#6) 12,036' - 12,096'
cut 60' rec. 57'

#7) 12,098' - 12,156'
cut 58' rec. 58'

#8) 12,156' - 12,204'
cut 48' rec. 48'

#9) 12,204' - 12,218'
cut 14' rec. 13'

#10) 12,218' - 12,278'
cut 60' rec. 59'

#11) 12,270' - 12,330'
cut 60' rec. 60'

#12) 12,330' - 12,288'
cut 58' rec. 55'

#13) 12,388' - 12,448'
cut 60' rec. 60'

#14) 12,442' - 12,481'
cut 39' rec. 37'

#15) 12,481' - 12,511'
cut 30' rec. 30'

#16) 12,511' - 12,540'
cut 29' rec. 29'

#17) 12,540' - 12,564'
cut 24' rec. 23'

#18) 12,564' - 12,594'
cut 30' rec. 30'

#19) 12,594' - 12,653'
cut 59' rec. 59'

#20) 12,653' - 12,713'
cut 60' rec. 60'

#21) 12,713' - 12,733'
cut 20' rec. 20'

#22) 12,733' - 12,752'
cut 19' rec. 17'

#23) 12,752' - 12,789'
cut 37' rec. 39'

#24) 12,789' - 12,828'
cut 39' rec. 39'

#25) 12,828' - 12,888'
cut 60' rec. 60'

#26) 12,888' - 12,921'
cut 33' rec. 33'

#27) 12,922' - 12,943'
cut 21' rec. 20'

#28) 12,943' - 12,953'
cut 10' rec. 8'

#29) 12,953' - 12,962'
cut 9' rec. 9'

#30) 12,962' - 12,966'
cut 4' rec. 4'

#31) 12,979' - 12,007'
cut 5' rec. 5'

#32) 13,007' - 13,012'
cut 5' rec. 5'

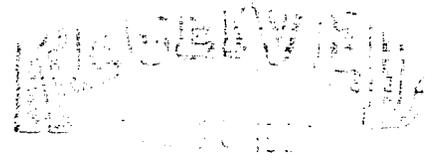


Amoco Production Company

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

T. G. Doss
District Superintendent

February 9, 1983



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

DIVISION OF
OIL, GAS & MINING

File: DSD-251-031.190

Anschutz Ranch East Unit Operations - Summit County, Utah

Amoco Production Company herewith advises that the following wells within the subject unit have been renamed as noted:

<u>Old Well Name:</u>	<u>New Well Name/Location:</u>
✓ Anschutz U2-30	Anschutz Ranch East Unit W30-02 Sec. 30, T4N, R8E
Anschutz U6-20	Anschutz Ranch East Unit W20-06 Sec. 20, T4N, R8E
Anschutz U30-06	Anschutz Ranch East Unit W30-06 Sec. 30, T4N, R8E
Anschutz U8-20	Anschutz Ranch East Unit W20-08 Sec. 20, T4N, R8E
Anschutz U8-30	Anschutz Ranch East Unit W30-08 Sec. 30, T4N, R8E
Anschutz U10-20	Anschutz Ranch East Unit W20-10 Sec. 20, T4N, R8E
Anschutz U10-30	Anschutz Ranch East Unit W30-10 Sec. 30, T4N, R8E
Anschutz U12-20	Anschutz Ranch East Unit W20-12 Sec. 20, T4N, R8E

<u>Old Well Name:</u>	<u>New Well Name/Location:</u>
Anschutz U14-20	Anschutz Ranch East Unit W20-14 Sec. 20, T4N, R8E
Anschutz U14-30	Anschutz Ranch East Unit W30-14 Sec. 30, T4N, R8E
Anschutz U16-20	Anschutz Ranch East Unit W20-16 Sec. 20, T4N, R8E
Anschutz U16-30	Anschutz Ranch East Unit W30-16 Sec. 30, T4N, R8E
Bountiful Livestock #1	Anschutz Ranch East Unit W16-14 Sec. 16, T4N, R8E
Bountiful Livestock "A" #1	Anschutz Ranch East Unit W16-06 Sec. 16, T4N, R8E
Champlin 458 Amoco "D" #1	Anschutz Ranch East Unit W29-04 Sec. 29, T4N, R8E
Champlin 458 Amoco "D" #2	Anschutz Ranch East Unit W29-02 Sec. 29, T4N, R8E
Champlin 458 Amoco "D" #3	Anschutz Ranch East Unit W29-12 Sec. 29, T4N, R8E
✓Champlin 458 Amoco "D" #5	Anschutz Ranch East Unit W29-14 Sec. 29, T4N, R8E
Champlin 458 Amoco "D" #6	Anschutz Ranch East Unit W29-06 Sec. 29, T4N, R8E
Champlin 458 Amoco "E" #1	Anschutz Ranch East Unit W31-08 Sec. 31, T4N, R8E
Champlin 458 Amoco "E" #2	Anschutz Ranch East Unit W31-04 Sec. 31, T4N, R8E
✓Champlin 458 Amoco "E" #5	Anschutz Ranch East Unit W31-02 Sec. 31, T4N, R8E
Champlin 458 Amoco "E" #6	Anschutz Ranch East Unit W31-06 Sec. 31, T4N, R8E
Champlin 458 Amoco "F" #1	Anschutz Ranch East Unit W21-04 Sec. 21, T4N, R8E
Champlin 458 Amoco "F" #2	Anschutz Ranch East Unit E21-14 Sec. 21, T4N, R8E
Island Ranching "E" #2	Anschutz Ranch East Unit W36-08 Sec. 36, T3N, R7E
Thousand Peaks Ranches #1	Anschutz Ranch East Unit W32-04 Sec. 32, T4N, R8E

For your information the letter preceding the well number (W-E) refers to the West/East Nugget structure within the Anschutz Ranch East Unit. Should you have questions concerning the well name changes, please contact Scheree Wilcox at this office, 801-264-2200.



T.G. Doss
District Superintendent

SW/

cc: State of Wyoming
Oil and Gas Conservation Commission
P.O. Box 2640
Casper, Wyoming 82601

DIVISION OF OIL, GAS AND MINING

BLOW OUT PREVENTION TEST

NAME OF COMPANY: AMOCO

WELL NAME: Champlin 458 Amoco ^D_B #3

SECTION: 29 TOWNSHIP 4N RANGE 8E COUNTY: SUMMIT

DRILLING CONTRACTOR: _____

RIG # _____

BOP TEST: DATE: 2-19-82

TIME: 7:00 PM

DRILLING: _____

CASING: _____

H₂S: _____

Testing to 3000 pounds.

REPORTED BY: Mark Summers

TELEPHONE NO. 307-789-2591

DATE: February 19, 1982 SIGNED DB

CLASS II FILE NOTATIONS

Champlain 458 "D"

DATE FILED: 4-8-83 OPERATOR: Amoco Prod. Co. USA WELL NO. ARE W29-12

Sec. 29 T. 4N R. 8E QRT/QRT: NW/NW SW COUNTY: Summit

New Well? _____ Conversion? [X] Disposal _____ Enhanced Recovery [X]

SURETY/Bond? Yes Card Indexed? _____ API Number: 43-043-30154

APPLICATION FILE COMPLETION

Completed Form DOGM-UIC-1? Yes

Plat identifying location and total depth of the following, Rule I-5(b)(1):

Surface Owner(s): _____ Operators: _____ water well(s) _____, abandoned well(s) _____, producing wells or drilling well(s) 11, dry holes _____.

Completed Rule I-5(b)(2)? Yes, (i) _____, (ii) _____

Schematic diagram of Well: TD: 13132', PBTD: _____, Depth of Inj/Disp interval: 11876-13987, geologic name of inj/dis interval Nugget, Casing and cement: top 300' surface, bottom _____, Size of: casing _____ tubing _____, depth of packer: _____

Assessment of existing cement bond: _____

Location of Bottomhole: _____ MAXIMUM INJECTION RATE: 35 MMSCFD MAXIMUM SURFACE INJECTION PRESSURE: 5500 psi.

Proposed Operating Data:

Procedure for controlling injection rates and pressures: Yes

Geologic name: Nitrogen Extraction, depth, N/A, location of injection fluid source. Analysis of water to be injected N/A tds, water of injection formation N/A tds., EXEMPTION REQUIRED? N/A.

Injection zone and confining zone data: lithologic description clay stone, sandstone geologic name shale & limestone, (thickness 9892', depth _____, lateral extent intervening

USDW's that may be affected by injection: geologic name N/A, lateral extent _____, depth to the top and bottom of all known USDW's Base of fresh water 2000'

Contingency plans? Yes

Results of formation testing? Yes

Description of mechanical integrity test Yes, injection procedure See Unit file for attachments & logs

CHECKED BY: UIC ADMINISTRATOR: _____

UIC GEOLOGIST: _____

Application Complete? Yes Notice Published _____, Date: 1/1. DIRECTOR: Approved? _____, approval letter sent _____, Requires hearing _____.



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

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

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

April 26, 1983

Park Record
Legal Advertising
Park City, UT 84060

RE: CAUSE NO. UIC-020

Gentlemen:

Attached hereto is a Notice of Hearing/Order to Show Cause, before the Board of Oil, Gas and Mining, Department of Natural Resources and Energy, State of Utah.

It is requested that this notice be published ONCE ONLY, as soon as possible but no later than the 3rd day of May, 1983. In the event that said notice cannot be published by this date, please notify this office immediately by calling 533-5771.

Upon completion of this request, please send proof of publication and statement of cost to the Division of Oil, Gas and Mining, 4241 State Office Building, Salt Lake City, Utah 84114.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

P for
Paula J. Frank

PAULA FRANK
Secretary of the Board

Attachment



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

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

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

April 26, 1983

Summitt County Bee
Legal Advertising
Coalville, UT 84017

Re: CAUSE NO. UIC-020

Gentlemen:

Attached hereto is a Notice of Hearing/Order to Show Cause, before the Board of Oil, Gas and Mining, Department of Natural Resources and Energy, State of Utah.

It is requested that this notice be published ONCE ONLY, as soon as possible but no later than the 3rd day of May, 1983. In the event that said notice cannot be published by this date, please notify this office immediately by calling 533-5771.

Upon completion of this request, please send proof of publication and statement of cost to the Division of Oil, Gas and Mining, 4241 State Office Building, Salt Lake City, Utah 84114.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

TP for
Paula J. Frank

PAULA FRANK
Secretary of the Board

Attachment



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

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

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

April 26, 1983

Newspaper Agency Corp.
Legal Advertising
146 South Main
Salt Lake City, UT

Re: CAUSE NO. UIC-020

Gentlemen:

Attached hereto is a Notice of Hearing/Order to Show Cause, before the Board of Oil, Gas and Mining, Department of Natural Resources and Energy, State of Utah.

It is requested that this notice be published ONCE ONLY, as soon as possible but no later than the 3rd day of May, 1983. In the event that said notice cannot be published by this date, please notify this office immediately by calling 533-5771.

Upon completion of this request, please send proof of publication and statement of cost to the Division of Oil, Gas and Mining, 4241 State Office Building, Salt Lake City, Utah 84114.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

TP for
Paula J. Frank

PAULA FRANK
Secretary of the Board

Attachment

STATE OF UTAH
 DIVISION OF OIL, GAS, AND MINING
 ROOM 4241 STATE OFFICE BUILDING
 SALT LAKE CITY, UTAH 84114
 (801) 533-5771
 (RULE I-5 & RULE I-4)

FORM NO. DOGM-UIC-1
 (Revised 1982)

IN THE MATTER OF THE APPLICATION OF
Amoco Production Company, USA
 ADDRESS P O Box 17675
Salt Lake City, Utah ZIP 84117
 INDIVIDUAL PARTNERSHIP CORPORATION X
 FOR ADMINISTRATIVE APPROVAL TO DISPOSE OR
 INJECT FLUID INTO THE ARE W29-12 WELL
 SEC. 29 TWP. 4N RANGE 8E
Summit COUNTY, UTAH

CAUSE NO. _____

ENHANCED RECOVERY INJ. WELL	<input checked="" type="checkbox"/>
DISPOSAL WELL	<input type="checkbox"/>
LP GAS STORAGE	<input type="checkbox"/>
EXISTING WELL (RULE I-4)	<input type="checkbox"/>

APPLICATION

Comes now the applicant and shows the Corporation Commission the following:

1. That Rule I-5 (g) (iv) authorizes administrative approval of enhanced recovery injections, disposal or LP Gas storage operations.
2. That the applicant submits the following information.

Lease Name <u>Champlin 458 "D"</u>	Well No. <u>ARE W29-12</u>	Field <u>Anschutz Ranch East</u>	County <u>Summit</u>
Location of Enhanced Recovery Injection or Disposal Well <u>NW NW SW</u> Sec. <u>29</u> Twp. <u>4N</u> Rge. <u>8E</u>			
New Well To Be Drilled Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Old Well To Be Converted Yes <input type="checkbox"/> No <input type="checkbox"/>	Casing Test Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Date <u>7/81</u>	
Depth-Base Lowest Known Fresh Water Within 1/2 Mile <u>2000'</u>	Does Injection Zone Contain Oil-Gas-Fresh Water Within 1/2 Mile YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	State What Gas	
Location of Injection Source(s) <u>Nitrogen Extraction Plant Uinta County, Wyoming</u>	Geologic Name(s) and Depth of Source(s) <u>Nitrogen Extraction via Atmosphere</u>		
Geologic Name of Injection Zone <u>Nugget</u>	Depth of Injection Interval <u>11876</u> to <u>13987</u>		
a. Top of the Perforated Interval: <u>11892</u>	b. Base of Fresh Water: <u>2000'</u>	c. Intervening Thickness (a minus b) <u>9892'</u>	
Is the intervening thickness sufficient to show fresh water will be protected without additional data? <u>X</u> YES NO			
Lithology of Intervening Zones <u>Gannett (clay stone); Preuss (sandstone/shale); Salt; Twin Creek (limestone)</u>			
Injection Rates and Pressures <u>Maximum 35 MMSCFD</u> B/D <u>5500</u> PSI			
The Names and Addresses of Those to Whom Notice of Application Should be Sent. <u>All interest owners in Anschutz Ranch East are members of a unit agreement.</u>			

State of Utah) Amoco Production Company
 County of Salt Lake) Applicant

Before me, the undersigned authority, on this day personally appeared _____
 known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on
 oath states, that he is duly authorized to make the above report and that he has knowledge of the facts stated
 therein, and that said report is true and correct.

Suscribed and sworn to before me this _____ day of _____, 19 _____

SEAL

My commission expires _____

Notary Public in and for _____

(OVER)

Anschutz Ranch East Wellbore Diagram

Anschutz W29-12

204 FSL 22 FEL Sec. 29, T4N, R8E Summit County, UT

7764 KB 7737 GL

3 1/2" Vam tubing 12.7# L-80

Nugget 11,877'
zone 1 11,877'
zone 2 12,144'
zone 3 12,481'

13 3/8" casing
SA 3001'

9 5/8" casing
SA 10,588'

Baker FB-1 Packer SA 11,730'

Perfs: 11,892-11,922 11,944-11,980
12,002-12,054 12,074-12,086
12,110-12,126 12,150-12,292
12,314-12,350 12,373-12,410
12,454-12,528 12,550-12,600

CIBP 12,680'

Perfs: 12,764-12,784 12,802-12,820
12,846-12,858 12,918-12,930
12,936-12,944

7" casing 29#
SA 13,263'

ARE W29 - 12 - OPERATING DATA

Twin Creek

lithology - limestone

thickness - 1477'

depth - 10400'

Nugget

lithology - sandstone

thickness - 1018'

depth - 11877'

Ankareh

lithology - sandstone

thickness - not determined due to lack of penetration

depth - 12895'



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

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

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

May 31, 1983

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

Re: Class II Injection Well
Approval
Cause No. UIC-020

Gentlemen:

Please be advised that administrative approval has been granted for gas injection into the wells mentioned below. This approval is conditional upon adhering to the UIC rules and regulations adopted by the Board of Oil, Gas and Mining and by not exceeding the maximum authorized pressures and rates.

Township 4 North, Range 7 East

Sec. 36 Well #ARE W36-08
Sec. 16 Well #ARE W16-14

Township 4 North, Range 8 East

Sec. 20 Well #ARE W20-14
Sec. 29 Well #ARE W29-12
Sec. 20 Well #ARE W20-08

If you have any questions concerning this matter, please do not hesitate to call or write.

Sincerely,


Dr. G.A. (Jim) Shirazi
Director

GS/TP/tp

Notice of hearing was sent to the following:

Newspaper Agency Corp.
Summitt County Bee
Park Record

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

Anschutz Land & Livestock Co., Inc.
c/o The Anschutz Corp.
2400 Anaconda Tower
555 17th Street
Denver, CO 80202

Amoco Prod. Co.
Amoco Building
1670 Broadway
Denver, CO 80202

Bountiful Livestock Co.
1162 East 15th South
Woods Cross, UT 84087

Champlin Petroleum Co.
5800 S. Quebec,
Box 1257
Englewood, CO 80150

Minerals Management Service
2000 Administration Bldg.
1745 West 1700 South
Salt Lake City, UT 84104

U.S. Environmental Protection Agency
Attn: Mike Strieby
1860 Lincoln Street
Denver, CO 80295

UT. Dept. of Health
Bureau of Water Pollution Control
Attn: Jerry Riding
Room 410
150 West North Temple
Salt Lake City, UT 84103

4241 State Office Building Salt Lake City, Utah 84114

PROOF OF PUBLICATION



STATE OF UTAH,)
County of Summit,)ss.

I, Shirley B. Phelps

being first duly sworn, depose and say that I am the bookkeeper of The Summit County Bee, a weekly newspaper of general circulation, published once each week at Coalville, Utah, that the notice attached hereto and which is a Notice of Hearing Cause No. UIC-020

was published in said newspaper for 1 consecutive issues, the first publication having been made on the 6 day of May, 1983, and the last on the day of , 19 , that said notice was published in the regular and entire issue of every number of the paper during the period and times of publication, and the same was published in the newspaper proper and not in any supplement.

Shirley B. Phelps

Subscribed and sworn to before me this 6 day of

May, 1983.

Phillips
Notary Public

My commission expires My Commission Expires Sept. 1, 1985, 19 .

IN THE MATTER OF THE APPLICATION OF AMOCO PRODUCTION COMPANY U.S.A., FOR ADMINISTRATIVE APPROVAL TO INJECT GAS INTO WELLS LOCATED IN SUMMIT COUNTY, UTAH.

CAUSE NO. UIC-020

THE STATE OF UTAH TO ALL PERSONS, OWNERS, PRODUCERS, OPERATORS, PURCHASERS AND TAKERS OF OIL AND GAS AND ALL OTHER INTERESTED PERSONS, PARTICULARLY IN SUMMIT COUNTY, UTAH:

NOTICE IS HEREBY GIVEN that Amoco Production Company U.S.A., P.O. Box 17675 Salt Lake City, Utah, 84117, is requesting that the Division authorize the approval to convert the wells mentioned below, to gas injection wells as follows;

Township 4 North, Range 7 East: Sec. 36 Well # ARE W36-08 Sec. 16 Well # ARE W16-14

Township 4 North, Range 8 East: Sec. 20 Well # ARE W20-14 Sec. 29 Well # ARE W29-12 Sec. 20 Well # ARE W20-08

INJECTION ZONE: Nugget Formation

MAXIMUM INJECTION PRESSURE: 5500 psi

MAXIMUM INJECTION RATE: 35 MMSCFD

This application will be granted unless objections are filed with the Division of Oil, Gas and Mining within fifteen days after publication of this Notice. Objections if any, should be mailed to: Division of Oil, Gas and Mining, Room 4241 State Office Building, Salt Lake City, Utah 84114.

STATE OF UTAH
DIVISION OF OIL,
GAS AND MINING

PAULA J. FRANK
Secretary of the Board

Published in the Summit County Bee May 6, 1983.

RECEIVED
MAY 20 1983

DIVISION OF
OIL, GAS & MINING

4241 State Office Building Salt Lake City, Utah 84114

IN THE MATTER OF THE APPLICATION OF AMOCO PRODUCTION COMPANY U.S.A., FOR ADMINISTRATIVE APPROVAL TO INJECT GAS INTO WELLS LOCATED IN SUMMIT COUNTY, UTAH.

CAUSE NO. UIC-020

THE STATE OF UTAH TO ALL PERSONS, OWNERS, PRODUCERS, OPERATORS, PURCHASERS AND TAKERS OF OIL AND GAS AND ALL OTHER INTERESTED PERSONS, PARTICULARLY IN SUMMIT COUNTY, UTAH:

NOTICE IS HEREBY GIVEN that Amoco Production Company U.S.A., P.O. Box 17675 Salt Lake City, Utah, 84117, is requesting that the Division authorize the approval to convert the wells mentioned below, to gas injection wells as follows;

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INJECTION ZONE: Nugget Formation
MAXIMUM INJECTION PRESSURE: 5500 psi
MAXIMUM INJECTION RATE: 35 MMSCFD

This application will be granted unless objections are filed with the Division of Oil, Gas and Mining within fifteen days after publication of this Notice. Objections if any, should be mailed to: Division of Oil, Gas and Mining, Room 4241 State Office Building, Salt Lake City, Utah 84114.

STATE OF UTAH
DIVISION OF OIL,
GAS AND MINING

PAULA J. FRANK
Secretary of the Board

Published in the Summit County Bee May 6, 1983.

PROOF OF PUBLICATION



STATE OF UTAH,)
County of Summit,) ss.

I, Shirley B. Phelps

being first duly sworn, depose and say that I am the _____

bookkeeper of The Summit County Bee, a weekly newspaper of general circulation, published once each week at Coalville, Utah, that the notice attached hereto and which is a _____

was published in said newspaper for I consecutive

issues, the first publication having been made on the

6 day of May, 1983, and the last

~~on the _____ day of _____, 19____~~, that said

notice was published in the regular and entire issue of every number

of the paper during the period and times of publication, and the same

was published in the newspaper proper and not in any supplement.

Shirley B. Phelps

Subscribed and sworn to before me this 6 day of

May, 1983

Millward
Notary Public

My commission expires My Commission Expires Sept. 1, 1985, 19

Affidavit of Publication

STATE OF UTAH. }
County of Salt Lake } ss.

Debra Miller

BEFORE THE DIVISION OF OIL, GAS AND MINING, Room 4241 State Office Bldg., Salt Lake City, UT 84114 CAUSE NO. UIC-020

IN THE MATTER OF THE APPLICATION OF AMOCO PRODUCTION COMPANY U.S.A., FOR ADMINISTRATIVE APPROVAL TO INJECT GAS INTO WELLS LOCATED IN SUMMIT COUNTY, UTAH, THE STATE OF UTAH TO ALL PERSONS, OWNERS, PRODUCERS, OPERATORS, PURCHASERS AND TAKERS OF OIL AND GAS AND ALL OTHER INTERESTED PERSONS, PARTICULARLY IN SUMMIT COUNTY, UTAH:

NOTICE IS HEREBY GIVEN that Amoco Production Company U.S.A., P.O. Box 17675, Salt Lake City, Utah, 84117, is requesting that the Division authorize the approval to convert the wells mentioned below, to gas injection wells as follows:

Township 4 North, Range 7 East
Sec. 36 Well # ARE W36-08
Sec. 16 Well # ARE W16-14
Township 4 North, Range 8 East

Sec. 20 Well # ARE W20-14
Sec. 29 Well # ARE W29-12
Sec. 20 Well # ARE W20-08

INJECTION ZONE: Nugget Formation
MAXIMUM INJECTION PRESSURE: 5500 psi
MAXIMUM INJECTION RATE: 35 MMSCFD

This application will be granted unless objections are filed with the Division of Oil, Gas and Mining within fifteen days after publication of this Notice. Objections, if any, should be mailed to: Division of Oil, Gas and Mining, Room 4241 State Office Building, Salt Lake City, Utah 84114.

STATE OF UTAH
DIVISION OF OIL,
GAS AND MINING
PAULA J. FRANK
Secretary of the Board

B-87

Being first duly sworn, deposes and says that he is legal advertising clerk of THE SALT LAKE TRIBUNE, a daily newspaper printed in the English language with general circulation in Utah, and published in Salt Lake City, Salt Lake County in the State of Utah, and of the DESERET NEWS a daily (except Sunday) newspaper printed in the English language with general circulation in Utah, and published in Salt Lake City, Salt Lake County, in the State of Utah.

That the legal notice of which a copy is attached hereto

Pub. notice of application Cause No. UIC-020

Amoco Production

was published in said newspapers on

May 5, 1983

Debra Miller
Legal Advertising Clerk

Subscribed and sworn to before me this 9th day of

May A.D. 19 83

Paula J. Frank
Notary Public

My Commission Expires

July 23, 1986

RECEIVED
MAY 11 1983

DIVISION OF
OIL, GAS & MINING

Affidavit of Publication

STATE OF UTAH. }
County of Salt Lake } ss.

Debra Miller

BEFORE THE DIVISION OF OIL, GAS AND MINING
Room 4241 State Office Bldg.
Salt Lake City, UT 84114
CAUSE NO. UIC-020

IN THE MATTER OF THE APPLICATION OF AMOCO PRODUCTION COMPANY U.S.A., FOR ADMINISTRATIVE APPROVAL TO INJECT GAS INTO WELLS LOCATED IN SUMMIT COUNTY, UTAH.

THE STATE OF UTAH TO ALL PERSONS, OWNERS, PRODUCERS, OPERATORS, PURCHASERS AND TAKERS OF OIL AND GAS AND ALL OTHER INTERESTED PERSONS, PARTICULARLY IN SUMMIT COUNTY, UTAH: NOTICE IS HEREBY GIVEN that Amoco Production Company U.S.A., P.O. Box 17675, Salt Lake City, Utah, 84117, is requesting that the Division authorize the approval to convert the wells mentioned below, to gas injection wells as follows:

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Sec. 36 Well # ARE W36-08
Sec. 16 Well # ARE W16-14
Township 4 North, Range 8 East
Sec. 20 Well # ARE W20-14
Sec. 29 Well # ARE W29-12
Sec. 20 Well # ARE W20-08

INJECTION ZONE: Nugget Formation
MAXIMUM INJECTION PRESSURE: 5500 psi
MAXIMUM INJECTION RATE: 35 MMSCFD

This application will be granted unless objections are filed with the Division of Oil, Gas and Mining within fifteen days after publication of this Notice. Objections, if any, should be mailed to: Division of Oil, Gas and Mining, Room 4241 State Office Building, Salt Lake City, Utah 84114.

STATE OF UTAH
DIVISION OF OIL,
GAS AND MINING
PAULA J. FRANK
Secretary of the Board

B-87

Being first duly sworn, deposes and says that he is legal advertising clerk of THE SALT LAKE TRIBUNE, a daily newspaper printed in the English language with general circulation in Utah, and published in Salt Lake City, Salt Lake County in the State of Utah, and of the DESERET NEWS a daily (except Sunday) newspaper printed in the English language with general circulation in Utah, and published in Salt Lake City, Salt Lake County, in the State of Utah.

That the legal notice of which a copy is attached hereto
Pub. notice of application Cause No. UIC-020

Amoco Production

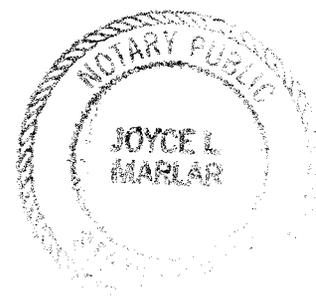
was published in said newspapers on
May 5, 1983

Debra Miller
Legal Advertising Clerk

Subscribed and sworn to before me this 9th day of
May A.D. 19 83

Joyce L. Marlax
Notary Public

My Commission Expires
July 23, 1986



PROOF OF PUBLICATION



STATE OF UTAH, }
County of Summit, }ss.

Before the Division of
Oil, Gas and Mining
Room 4241 State Office
Building
Salt Lake City, Utah 84114
Cause No. UIC-020

I, Susan Davis

being first duly sworn, depose and say that I am the _____

bookkeeper of The Park Record, a week-

ly newspaper of general circulation, published once each week at
Park City, Utah, that the notice attached hereto and which is a

Notice of Hearing Cause No. UIC-020

was published in said newspaper for one con-

secutive issues, the first publication having been made on the

28 day of April, 19 83, and the last

on the 28 day of April, 19 83, that said

notice was published in the regular and entire issue of every number

of the paper during the period and times of publication, and the same

was published in the newspaper proper and not in any supplement.

Susan Davis

Subscribed and sworn to before me this 28 day of

April, 19 83

William
Notary Public

My commission expires _____, 19 _____.

In the Matter of the
Application of Amoco Pro-
duction Company U.S.A., for
administrative approval to
inject gas into wells located
in Summit County, Utah.

The State of Utah to all
persons, owners, producers,
operators, purchasers and
takers of oil and gas and all
other interested persons,
particularly in Summit Coun-
ty, Utah:

Notice is hereby given that
Amoco Production Company
U.S.A., P.O. Box 17675, Salt
Lake City, Utah 84117, is
requesting that the Division
authorize the approval to
convert the wells mentioned
below, to gas injection wells
as follows:

Township 4 North, Range 7
East, Sec. 36 Well # ARE
W36-08; Sec. 16 Well #ARE
W16-14;

Township 4 North, Range 8
East, Sec. 20 Well # ARE
W20-14; Sec. 29 Well # ARE
W29-12; Sec. 20 Well # ARE
W20-08.

Injection Zone: Nugget
formation. Maximum Injec-
tion Pressure: 5,500 psi.
Maximum Injection rate: 35
MMSCFD.

This application will be
granted unless objections are
filed with the Division of Oil,
Gas and Mining within
fifteen days after publication
of this Notice. Objections if
any, should be mailed to:
Division of Oil, Gas and
Mining, Room 4241 State
Office Building, Salt Lake
City, Utah 84114.

State of Utah
Division of Oil, Gas and
Mining
Paula J. Frank

Published in the Park
Record April 28, 1983.

BEFORE THE DIVISION OF OIL, GAS AND MINING
Room 4241 State Office Building
Salt Lake City, Utah 84114

IN THE MATTER OF THE APPLICATION)
OF AMOCO PRODUCTION COMPANY U.S.A.,) CAUSE NO. UIC-020
FOR ADMINISTRATIVE APPROVAL TO)
INJECT GAS INTO WELLS LOCATED)
IN SUMMIT COUNTY, UTAH.)

THE STATE OF UTAH TO ALL PERSONS, OWNERS, PRODUCERS, OPERATORS,
PURCHASERS AND TAKERS OF OIL AND GAS AND ALL OTHER INTERESTED PERSONS,
PARTICULARLY IN SUMMIT COUNTY, UTAH:

NOTICE IS HEREBY GIVEN that Amoco Production Company U.S.A., P.O.
Box 17675, Salt Lake City, Utah, 84117, is requesting that the Division
authorize the approval to convert the wells mentioned below, to gas
injection wells as follows:

Township 4 North, Range 7 East

Sec. 36 Well # ARE W36-08
Sec. 16 Well # ARE W16-14

Township 4 North, Range 8 East

Sec. 20 Well # ARE W20-14
Sec. 29 Well # ARE W29-12
Sec. 20 Well # ARE W20-08

INJECTION ZONE: Nugget Formation

MAXIMUM INJECTION PRESSURE: 5500 psi

MAXIMUM INJECTION RATE: 35 MMSCFD

This application will be granted unless objections are filed with
the Division of Oil, Gas and Mining within fifteen days after publication
of this Notice. Objections if any, should be mailed to: Division of
Oil, Gas and Mining, Room 4241 State Office Building, Salt Lake City,
Utah 84114.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING


PAULA J. FRANK
Secretary of the Board



Amoco Production Company

May 16, 1986

RECEIVED
MAY 21 1986

Utah Division of Oil, Gas & Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180

DIVISION OF
OIL, GAS & MINING

Re: **Name change on wells being brought into the Anschutz
Ranch East Unit**

Attn: Claudia Jones

Dear Claudia:

The following is a list of all wells, East & West Lobe
(production and Injection) at Anschutz Ranch East referenced
by well name, API No. and legal description, that should
be rolled over from Amoco Production Company to Amoco Rockmount
Company upon completion and being brought into the Unit.

Production wells

<u>Well Name</u>	<u>API No.</u>	<u>Legal Description</u>
W01-04	43-043-30270	NWNW, Sec 1, T3N, R7E
W01-06	43-043-30188	SEnw, Sec 1, T3N, R7E
W01-12	43-043-30271	NWSW, Sec 1, T3N, R7E
W20-04	43-043-30238	NWNW, Sec 20, T4N, R8E
W16-60 06	43-043-30138	NENE, Sec 16, T4N, R8E
W16-12	43-043-30231	SWNW, Sec 16, T4N, R8E
W17-12167	43-043-30176	NWSE, Sec 17, T4N, R8E
W19-16	43-043-95008 ? 30204	SWSE, Sec 19, T4N, R8E
W20-02	43-043-30228	NWNE, Sec 20, T4N, R8E
W20-06	43-043-30159	NWNW, Sec 20, T4N, R8E
W20-10	43-043-30229	SEnw, Sec 20, T4N, R8E
W20-12	43-043-30220	NWSW, Sec 20, T4N, R8E
W20-16	43-043-30148	SWSE, Sec 20, T4N, R8E
W21-04	43-043-30135	NWNW, Sec 21, T4N, R8E
W29-04	43-043-30129	NWNW, Sec 29, T4N, R8E
W29-06A	43-043-30250	SEnw, Sec 29, T4N, R8E
W29-14A	43-043-30251	NWSW, Sec 29, T4N, R8E
W30-06	43-043-30273	NESW, Sec 30, T4N, R8E
W30-08	43-043-30183	SENE, Sec 30, T4N, R8E
W30-10	43-043-30215	NWSE, Sec 30, T4N, R8E
W30-14	43-043-30185	SESW, Sec 30, T4N, R8E
W30-16	43-043-30156	NESE, SEc 30, T4N, R8E

Production wells (cont.)

<u>Well Name</u>	<u>API NO.</u>	<u>Legal Description</u>
W31-04	43-043-30165	NWNW, Sec 31, T4N, R8E
W31-06	43-043-30217	SEW, Sec 31, T4N, R8E
W31-08	43-043-30164	NWNE, Sec 31, T4N, R8E
W31-12	43-043-30190	SWNW, Sec 31, T4N, R8E
W32-04	43-043-30162	NWNW, Sec 32, T4N, R8E
W36-10	43-043-30227	NESW, Sec 36, T4N, R7E
W36-16	43-043-30157	SESE, Sec 36, T4N, R7E

Injection wells

W01-02	43-043-30209	? NWNE, Sec 1, T3N, R7E
W02-10	43-043-30265	NWSE, Sec 2, T3N, R7E
W16-14	43-043-30096	NWSW, Sec 16, T4N, R8E
W19-08	43-043-30272	SENE, Sec 19, T4N, R8E
W20-08	43-043-30212 ? 30123	SWNW, Sec 20, T4N, R8E
W20-14	43-043-30145	NWSW, Sec 20, T4N, R8E
W29-02	43-043-30220 ? 30136	NWNE, Sec 29, T4N, R8E
W29-12	43-043-30154	NWSW, Sec 29, T4N, R8E
W30-02	43-043-95014 ? 30218	NWNE, Sec 30, T4N, R8E
W30-12A	43-043-30248 ? 30230	NWSW, Sec 30, T4N, R8E
W30-15	43-043-95012 ? 30216 ?	NWNE, Sec 30, T4N, R8E
W36-08	43-043-30167	SENE, Sec 36, T4N, R7E
W36-14	43-043-30255	SESW. Sec 36, T4N, R7E

This should help to clarify your files and if any changes are necessary we will notify you of such.

If further information is needed please contact Louis F. Lozzie of this office at 307-789-1700 ext. 2226.

Thank you,



R. M. Ramsey
District Admn. Supervisor

/kg

cc: Pam Collier - Amoco Denver



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

July 22, 1987

Mr. Reed Smith
Amoco Production Company
Post Office Box 829
Evanston, Wyoming 82930

Dear Mr. Smith:

A review of the Class II injection wells which Amoco operates in the Anschutz Ranch and Anschutz Ranch East Fields, has revealed that required pressure test information has not been submitted to the Division for five injection wells. The Division requires a pressure test to be conducted at least once every five years for certain Class II injection wells and submittal of the test results should be made to the Division.

The five wells in question are the AREU #W29-12, AREU #W16-14, AREU #20-08, AREU #W20-14, and AREU #W36-08. The Division has no record of a pressure test having been conducted on these five wells during the past five years.

If a pressure test has been conducted on any of these wells, please submit a copy of the test results and the date of the test. If no pressure test has been conducted in the past five years, arrangements need to be made to have these tests performed. Rule 505 of the Oil and Gas Conservation Rules details the testing requirements.

Please notify the UIC staff if any pressure tests are to be conducted so that the staff may have an opportunity to witness the tests. If there are any questions regarding this request, please contact the UIC staff at (801)538-5340.

Sincerely,

A handwritten signature in cursive script that reads "Dorothy B. Swindel".

Dorothy B. Swindel
UIC Geologist

mfp
0256U/41

9/11/87



Amoco Production Company

Post Office Box 829
Evanston, Wyoming 82930
307-789-1700

N. E. Spencer
District Manager

August 20, 1987

RECEIVED
AUG 24 1987
DIVISION OF OIL
GAS & MINING

Natural Resources Oil and Gas
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203

Attn: Dorothy Swindle

File: LOB-107-537.5

Casing Integrity Testing
Anschutz Ranch East Nitrogen Injection Wells

Your office has recently indicated that no documentation of casing integrity testing has been provided for five Anschutz Ranch East nitrogen injection wells. A review of our records indicates the wells in question were tested as follows:

<u>Well</u>	<u>Testing Date</u>	<u>Test Pressure</u>	<u>Test Duration</u>	<u>Reason for Testing</u>
Sec 29, T4N, R8E				
43-043-30154 W29-12 ✓	10-15-84	1500 psi	15 min.	Tubing Upsize
43-043-30096 W16-14 ✓	4-14-85	1500 psi	15 min.	Tubing Upsize
43-043-30123 W20-08 ✓	12-3-84	1500 psi	15 min.	Tubing Upsize
43-043-30145 W20-14 ✓	3-29-86	1500 psi	15 min.	Tubing Upsize
43-043-30167 W36-08 ✓	5-24-86	1500 psi	15 min.	Tubing Upsize

A copy of the daily work reports which reflect the above dates and pressures can be provided upon your request. If additional testing is deemed necessary, a rapid response is requested such that any testing can be performed prior to your October 1987 deadline.

Any questions or comments regarding this matter should be directed to Dan Polson at (307) 783-2316.

N. E. Spencer

DNP/djw

cc: Kathy Bauman - Denver
Reid Smith - Evanston



Amoco Production Company

Post Office Box 829
Evanston, Wyoming 82930
307-789-1700

N. E. Spencer
District Manager

August 20, 1987

Natural Resources Oil and Gas
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203

Attn: Dorothy Swindle

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<u>Well</u>	<u>Testing Date</u>	<u>Test Pressure</u>	<u>Test Duration</u>	<u>Reason for Testing</u>
W29-12	10-15-84	1500 psi	15 min.	Tubing Upsize
W16-14	4-14-85	1500 psi	15 min.	Tubing Upsize
W20-08	12-3-84	1500 psi	15 min.	Tubing Upsize
W20-14	3-29-86	1500 psi	15 min.	Tubing Upsize
W36-08	5-24-86	1500 psi	15 min.	Tubing Upsize

A copy of the daily work reports which reflect the above dates and pressures can be provided upon your request. If additional testing is deemed necessary, a rapid response is requested such that any testing can be performed prior to your October 1987 deadline.

Any questions or comments regarding this matter should be directed to Dan Polson at (307) 783-2316.

N. E. Spencer

DNP/djw

cc: Kathy Bauman - Denver
Reid Smith - Evanston

RECEIVED
AUG 24 1987
DIVISION OF OIL
GAS & MINING



Amoco Production Company

Post Office Box 829
Evanston, Wyoming 82930
307-789-1700

N. E. Spencer
District Manager

August 28, 1987

Natural Resources Oil and Gas
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203

Attn: Dorothy Swindle

File: LOB-108-537.5

Casing Integrity Testing
Anschutz Ranch East Nitrogen Injection Wells

Per your phone conversation of 8/27/87 with Dan Polson, attached are the daily work reports which document the testing of the W29-12, W16-14, W20-08, W20-14, and W36-08. If there are any questions concerning this matter, please contact Dan Polson at (307) 783-2316.

N.E. Spencer *204*
N. E. Spencer

DNP/djw

Attachments

RECEIVED

AUG 31 1987

DIVISION OF OIL
GAS & MINING

C

Amoco Production Company
DRODB
 Completion or Repair Report

Item Required for Input of This U
 MMDYY = All Dates
 Feet = All Depths
 PSI = All Pressures

Identification
 Date: 10-15-84
 Rig Well: []
 Min. Sub: []
 Check Digs: []
 Rig Status Code: []
 API Well: []
 Side Tr: []

ANSCHUTZ W-29-12
 Lease Name And Well Number
 Chaparral Rig # 1
 Contractor Name And Rig Number

Operations
 1 Total Depth: 13262 PSTD 12900 Present Formation: TEST TREE, ROSU Nugget Present Formation Of Work: Progress

Pertinent Dates
 2 Rig Move: [] Rig Released: [] Suspended: [] Resumed: []
 Interstate Suspension Reg Y: [] State Of Production Readiness (IRS): []

Costs
 7 Daily Well: 9106
 Cumulative Well: 589902

10 Type Remarks: 54 Prod. String Size: 2 3/4" 29 Tbg. Or Work String Size: 4 1/2" VAM Tbg. End: 11728
 Landing Hoop: OTIS Type: X 11755, XN 11774

Fluid Recovery (Bbls.)

Type Remarks	During Last	Total Recovered	Left To Recover	Flowing:	Choke	Pressure	Case Pressure	Recovery
10 55	Hrs. BLW 1100	TR	LR 10,525	2.313		TP	CP	R
10 55	Hrs. BLC	TR	LR	2.205		TP	CP	R
10 55	Hrs. BHW	TR	LR			TP	CP	R
10 55	Hrs. BNC	TR	LR			TP	CP	R

Remarks (Maximum 63 characters per line.)
 10 Type Remarks: []
 10 []
 10 []

Hours	Operation	Description
14 7	Lay down 3/4"	FINISH Laying down 3/4" 12.7 N-80 Vam Tubing
14 13	Roll PKR Fluid + ND, NU.	change Pipe Rams, PU Seal Assy, PU x Run 4 1/2" Tbg STING into PKR + Space out, Press Test To 1500#, Sting out PKR + Roll in 250 BBL PKR Fluid w/ 4 BBL Diesel Freeze CAP. P.U. RAP A Round + hand TBB w/ BPU. IN Place, Space out, 13' seal in PKR + 3' seals out, Prep ND Bop's, NU TREE @ Report Time 5:00 AM
14		
14		
14		
14		
14		
14		
14		

Perforations (Lines 51 And/Or 52 Are Required.)

Date	Depth Top	Depth Bot.	Type C-Closed G-Open	Shot Foot	Perf. Size (In.)	Total No. Shot	Coll.	OC	Gun Pressure (Deq)	Type Fluid Code	Fluid Density (PPG)	Fluid Level Ft.	Continuous Rag Y
53													Y
53													Y
53													Y
53													Y
53													Y
53													Y

Type Gun: 1 - Expandable, 2 - Non Expandable, 3 - Oriented, 4 - Slot, 5 - Other
 Type Fluid: 1 - Water, 2 - TRT Water, 3 - Brine, 4 - Mud, 5 - Oil, 6 - Oil Mud, 7 - Air or Gas, 8 - Acid, 9 - Other

Called in by: B. Miller Bob Schmidt

Call Received By:

OVER



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangerter
Governor

Dee C. Hansen
Executive Director

Dianne R. Nielson, Ph.D.
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

July 14, 1992

Amoco Production Company
P.O. Box 800
Denver, Colorado 80201

Gentlemen:

Re: Pressure Test for Mechanical Integrity, Class II Injection Wells in the Anschutz Ranch East Unit, Summit County, Utah

The Underground Injection Control Program which the Division of Oil, Gas and Mining (DOGM) administers in Utah, requires that all Class II injection wells demonstrate mechanical integrity. It has been past policy of the Division to require pressure testing of all Class II salt water disposal wells and other injection wells not reporting monthly annulus pressures in accordance with rule R649-5-5.3 of the Oil and Gas Conservation General Rules. This rule requires that the casing-tubing annulus above the packer be pressure tested at a pressure equal to the maximum authorized injection pressure or 1,000 psi, whichever is lesser, provided that no test pressure is less than 300 psi. This test shall be performed at least every five year period beginning October, 1982. Our records indicate the above referenced wells are due for testing for the second five year period. Attached is a list of wells which need to be tested according to our records. Please make arrangements and ready the wells for testing during the week of August 10, 1992, as outlined below:

1. Operator must furnish connections, and accurate pressure gauges, hot oil truck (or other means of pressuring annulus), as well as personnel to assist in opening valves etc.
2. The casing-tubing annulus shall be filled prior to the test date to expedite testing, as each well will be required to hold pressure for a minimum of 15 minutes.
3. If mechanical difficulties or workover operations make it impossible for the wells to be tested on this date the tests may be rescheduled.

Page 2
Pressure Test
July 14, 1992

4. Company personnel should meet DOGM representatives at the field office or other location as negotiated.
5. All bradenhead valves with exception of the tubing on the injection wells must be shut in 24 hours prior to testing.

Please contact Mr. Dan Jarvis at (801)538-5340 to arrange a meeting time and place or negotiate a different date if this one is unacceptable.

Sincerely,



Gil Hunt
UIC Program Manager

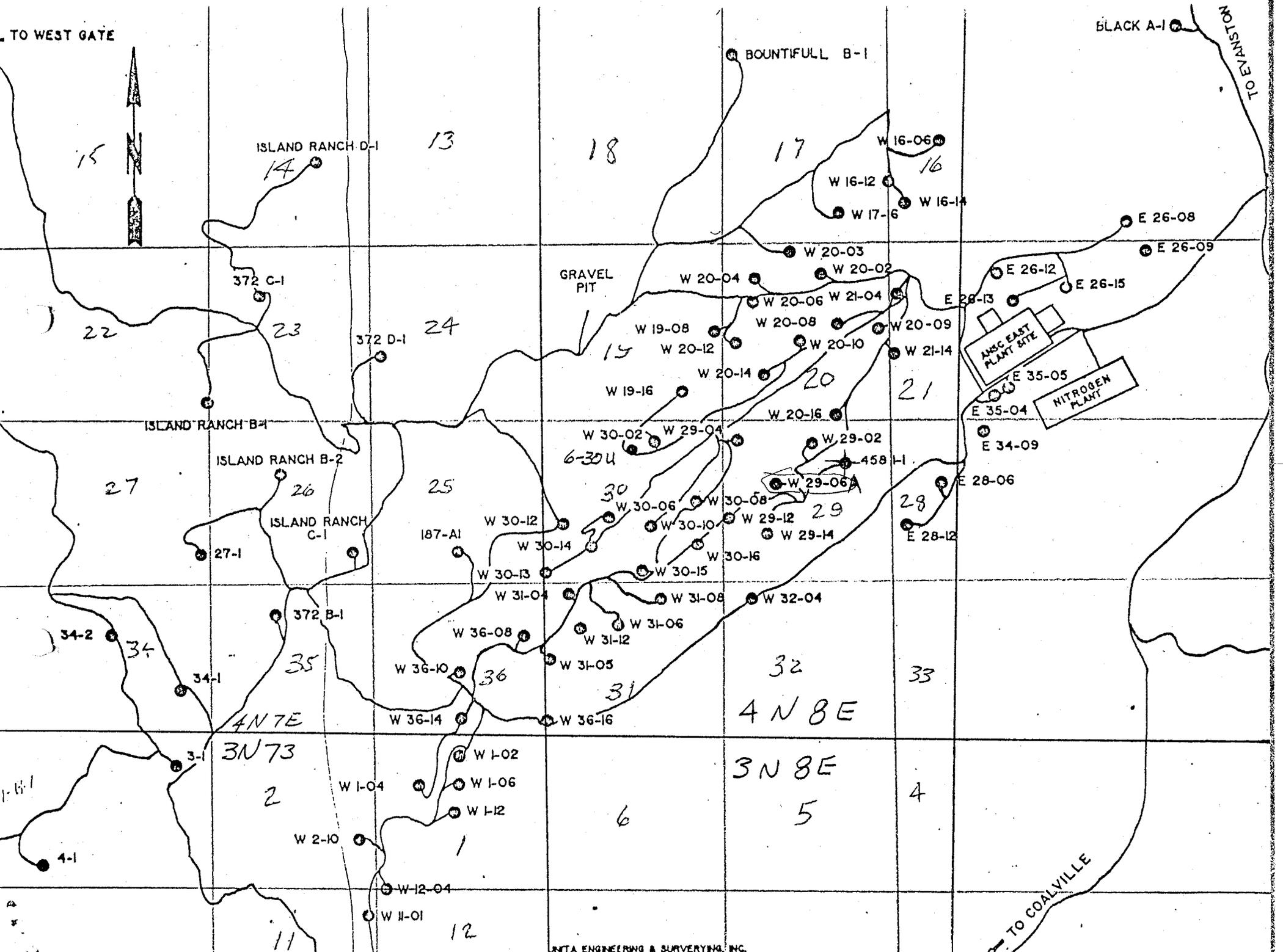
ldc
Attachment
WOI52

WELLS TO BE TESTED

#W20-02
W29-02
W29-12
W29-14A
W02-10
W16-14
W19-08
W20-08
W20-14
W30-08
W30-14
W36-08
W31-05

TO WEST GATE

BLACK A-I
TO EVANSTON



TO COALVILLE

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

INJECTION WELL - PRESSURE TEST

TEST DATE: 8-11-92 WELL OWNER/OPERATOR: Amoco - Rockmont
DISPOSAL WELL: ENHANCED RECOVERY WELL: OTHER:
API NO: 43-043-30154 WELL NAME/NUMBER: AREU #29-12
SECTION: 29 TOWNSHIP: 4N RANGE: 8E

INITIAL CONDITIONS:

TUBING - rate: pressure: 5000
CASING/TUBING ANNULUS - pressure: 320

CONDITIONS DURING TEST:

TUBING pressure: 5000 psi for 15 min minutes
CASING/TUBING ANNULUS pressure: 1000 psi 15 min
annulus pressure drop during test: None psi

CONDITIONS AFTER TEST:

TUBING pressure: 5000 psi
CASING/TUBING ANNULUS pressure: 320 psi

REMARKS:

OK

Russell L. Dranger
OPERATOR REPRESENTATIVE

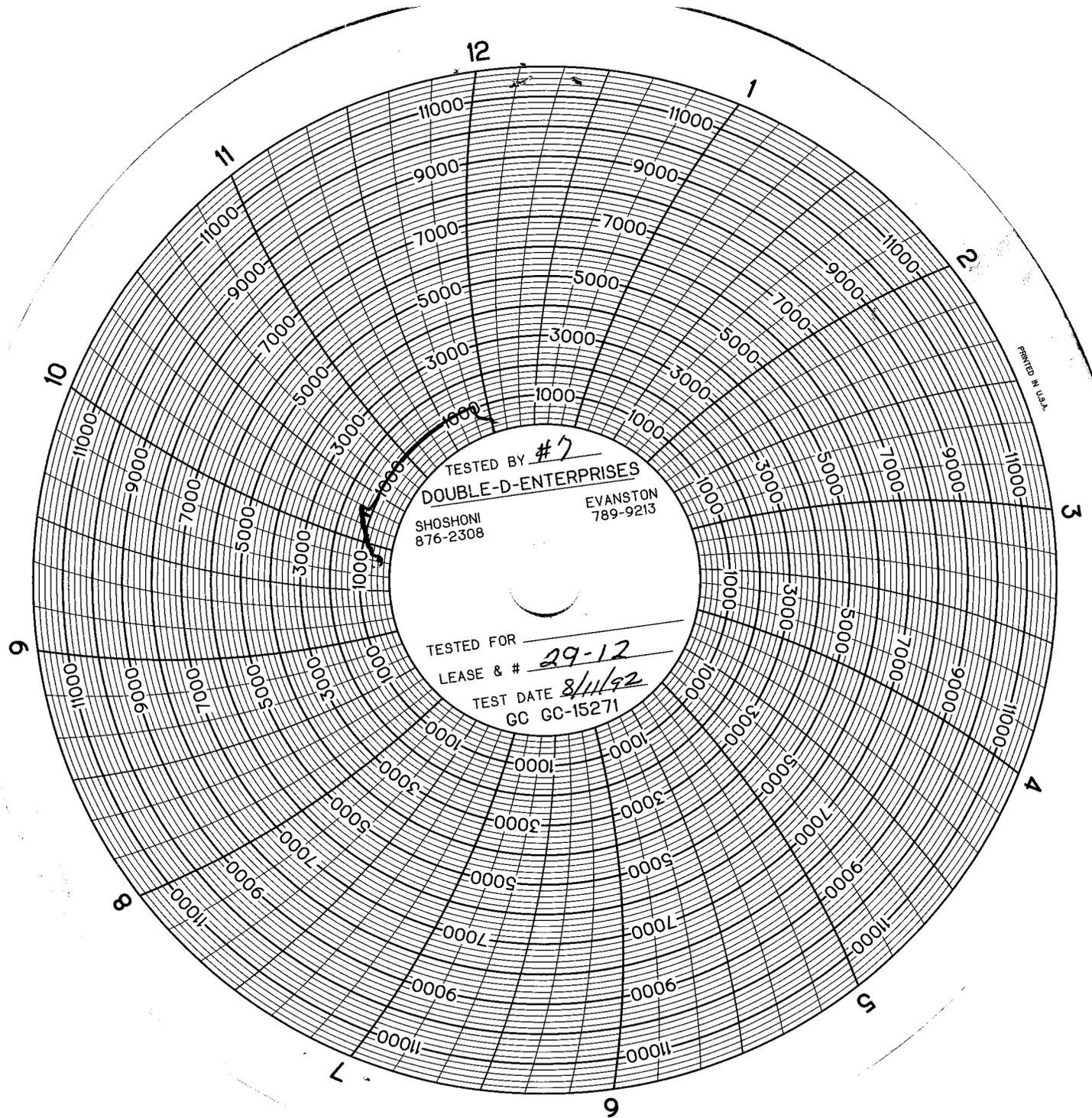
John M. [Signature]
DOG M WITNESS

PRINTED IN U.S.A.

TESTED BY #7
DOUBLE-D-ENTERPRISES
SHOSHONI
876-2308

EVANSTON
789-9213

TESTED FOR _____
LEASE & # 29-12
TEST DATE 8/11/52
GC GC-15271



**STATE OF UTAH
DIVISION OF OIL, GAS AND MINING**

5. Lease Designation and Serial
None

6. If Indian, Allottee or Tribe Name:

7. Unit Agreement Name:

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals

8. Well Name and Number:
29-12

9. API Well Number
43-043-30154

10. Field and Pool, or Wildcat:
ANSCHUTZ RANCH EAST

1. Type of Well: OIL GAS OTHER

2. Name of Operator:
Amoco Production Company

3. Address and Telephone Number:
P. O. Box 800, Denver CO 80201, Suite 1033

4. Location of Well
Footages:
2204' FSL & 22' FWL
County:
SUMMIT
State:
UTAH
QQ, Sec., T.,R.,M.:
SEC. 29, T4N, R8E

County:
SUMMIT
State:
UTAH

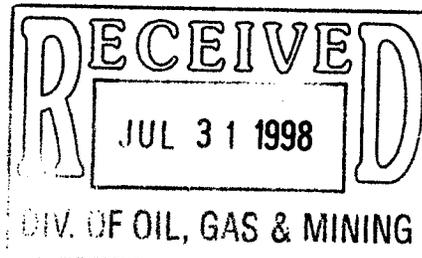
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT (Submit in Duplicate)	SUBSEQUENT REPORT (Submit Original Form Only)
<input type="checkbox"/> Abandonment <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Multiple Completion <input type="checkbox"/> Other _____	<input type="checkbox"/> Abandonment* <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Treat <input checked="" type="checkbox"/> Other Conversion from injection to producing
<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Recompletion <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off	<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off
Approximate date work will start _____	Date of work completion 09/04/97 <small>Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form. * Must be accompanied by a cement verification report.</small>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)
The subject well was converted from an injection well to a producing well on 09/04/97.

13. Signature: W. E. Hadlock Title: **Regulatory Analyst** Date: **07/27/98**

(This space for State use only)



STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for permission to drill new wells, deepen existing wells, or to connect plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

5. Lease Designation and Record Number:
FEE

6. If subject, address or Title lease:

7. Lease Agreement Name:
ANSCHUTZ RANCH EAST

8. Well Name and Number:
A.R.E. W29-12

9. API Well Number:
4304330154

10. Field and Prod. or Water:
ANSCHUTZ RANCH EAST

1. Type of Well: OIL GAS OTHER:

2. Name of Operator:
AMOCO PRODUCTION COMPANY

3. Address and Telephone Number:
(PH 281-366-2026)
501 WESTLAKE PARK BLVD, HOUSTON, TX 77253-3092

4. Location of Well
Footage: 2204' FSL & 22' FEL

Oil Sec., T., R., M.: SECTION: 29 TWP: 4N RGE: 8E

County: SUMMIT

State: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT
(Submit in duplicate)

- Abandon
- Repair Casing
- Change of Plans
- Convert to Injection
- Fracture Treat or Acidize
- Multiple Completion
- Other FULL COMPLETION - FLOW UP CASING
- New Construction
- Pull or Alter Casing
- Recomplete
- Repair/Restore
- Vent or Flare
- Water Shut-Off

Approximate date work will start MAY 10, 2000

SUBSEQUENT REPORT
(Submit Original Form Only)

- Abandon
- Repair Casing
- Change of Plans
- Convert to Injection
- Fracture Treat or Acidize
- Other
- New Construction
- Pull or Alter Casing
- Repair/Restore
- Vent or Flare
- Water Shut-Off

Date of work completion _____

Reason issues of Multiple Completions and Recompletions to enhance accuracy on WELL COMPLETION OR RECOMPLETION REPORT AND LOGS form.
* Must be accompanied by a current verification report.

12. DEPOSIT PROPOSED OR COMPLETED OPERATIONS (Clearly state all proposed details, and give estimated dates. If well is completely drilled, give production history and remaining gas and water capacity for all reservoirs and depths (within 100 feet).)

- FOLLOWING THE SUCCESS OF THE WORKOVER ON W30-08 WE PLAN TO FULL THE COMPLETION ON WELL W29-12.

- PLEASE SEE THE ATTACHED PROCEDURE.

13. Name & Signature: [Signature] Title: PETROLEUM OVER. Date: 4/12/00

APPROVED

The Utah Division of Oil, Gas and Mining
Robert J. Krueger, PE, Petroleum Engineer

Date: 4-12-00

Workover Procedure Anschutz Well No. W29-12

Location: Section 29, T04N-R8E County: Summit State: Utah

Objective: Pull the tubing string without losing water to the formation

Caution: please review well history and completion diagram in detail before proceeding

Conduct all pre-workover safety meetings.

NOTE: Xmas tree is to be completely refurbished and tested. A second valve is to be installed on the wellhead annular outlet while the well is dead with downhole plugs in place. This is to provide double barrier protection when rigging up lines to the annulus.

1. Rigup workover rig, two tanks (500 bbls each), piping, annulus manifold and pumps for pumping kill weight fluid (water) down the annulus and tubing if necessary. (have xmas tree sent in for complete rebuild).
2. Shut well in and shutoff chemical injection (if applicable)
3. Rig up Schlumberger slick line unit and lubricator. Rig up Nitrogen tanks and pumps. Tie in N2 to pump down the tubing. Pressure test all lines to 3,000 psi for 5 minutes. Pressure test lubricator to 3,000 psi for 5 minutes.
4. RIH with slickline and set plug in the bottom Otis 2.313" "XN" nipple profile at 11,773 ft. RIH and sting in with equalizing prong. Bleed down any pressure in the tubing string to test lower plug and so as to not trap pressure. RIH and set plug in the Otis 2.313" "X" nipple 11,754 ft. RIH and sting in with equalizing prong. Rig down slickline unit.
5. Pickup tubing string approximately 20 ft and sting out of the Baker "DB" packer at 11,730 ft. with locator seal assembly. *NOTE: annular hydrostatic pressure is approximately 5,000 psi. Prior to stinging out of packer fill tubing string with fresh water to minimize differential*

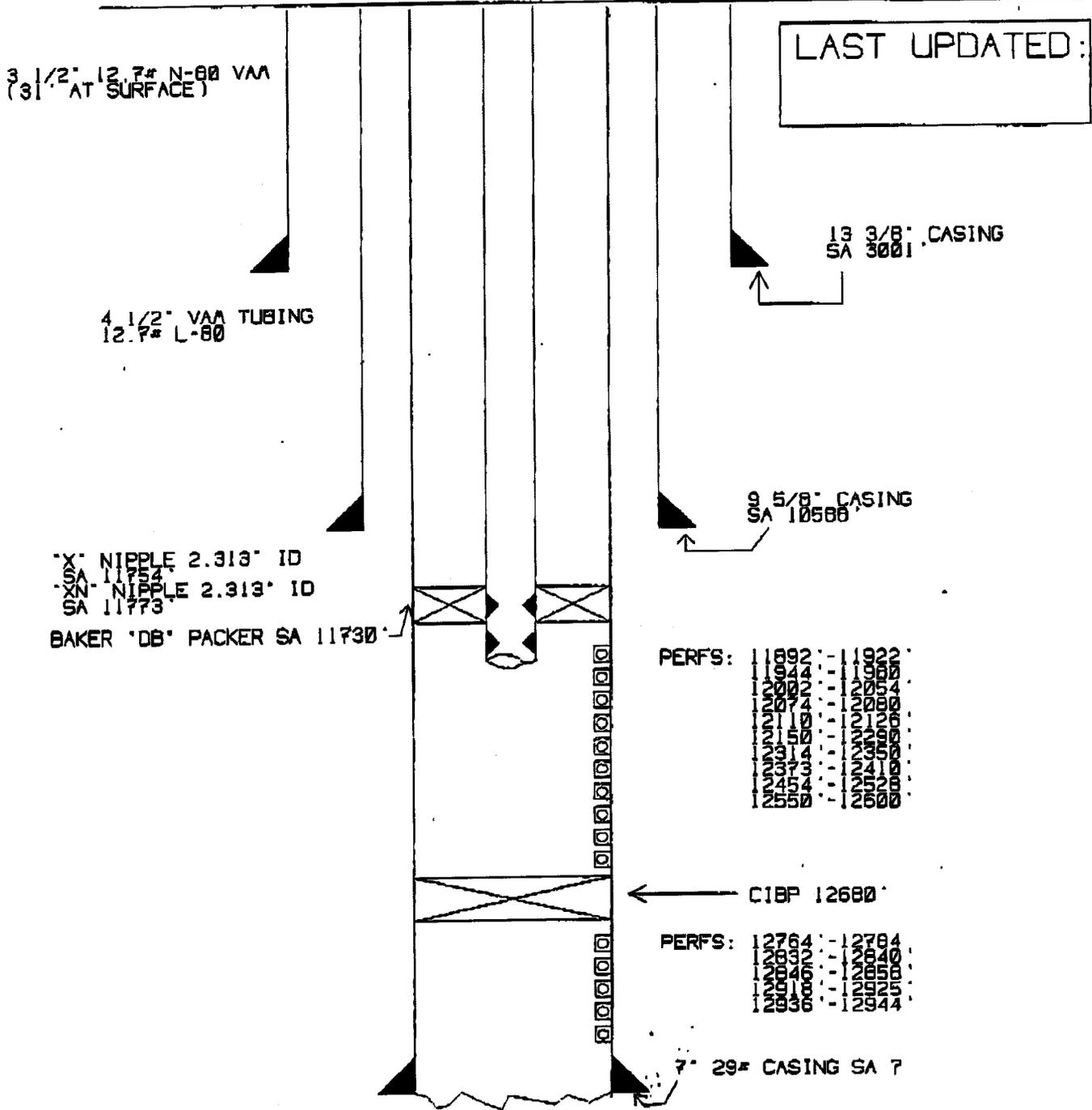
6. Immediately begin pumping down the tubing and up the annulus to clear downhole debris. Displace with water until packer top is clean.
7. begin pumping down the tubing with nitrogen displacing water up the annulus to a 500 bbl holding tank until the tubing and annulus are dry. Rig down N2 equip. (keep on standby).
8. Bleed nitrogen pressure off the annulus. Check the well for flow. Set VR plugs in the annulus as requested.
9. Pull out of hole with the tubing string laying down in singles.
10. Rig up Schlumberger slick line unit and lubricator. RIH with slickline, equalize pressure and PULL plug from the Otis 2.313" "X" nipple at 11,754 ft. Pump 20 bbls (equals approximately 500 psi) of 2% KCL on to bottom plug to minimize differential (estimated pressure below plug is approximately 2,500 to 3,500 psi). RIH with slickline, latch onto prong, equalize pressure and PULL plug from the bottom Otis "XN" nipple profile 11,773 ft. Use N2 as necessary to assist with release of plug. Rig down slickline.
11. Rig up Weatherford e-line and caliper. Run 40 arm caliper (tool OD 3.55") from 11,600 ft to surface to check casing ovality and pitting problems. Immediately report any ovality concerns to Houston ext. 2036
12. Rigup lubricator with 6 ft completion inside. Pressure test lubricator. RIH with centralized wireline re-entry guide, Otis 2.562" "R" nipple and hanger. (Provides double barrier protection for surface seals).
13. Land and tighten hanger. Rig down. Place well on production.

NOTE: any time lubricator connection is broken lubricator must be retested to 3,000 psi for 5 minutes.

ANSCHUTZ RANCH EAST WELLBORE DIAGRAM W29-12

LOCATION: 2204 'FSL 22 'FEL SEC. 29 T4N R8E

ELEVATION: 7764 'KB / 7737 'GL



LAST UPDATED:

Completion

WELLSBORE DIAGRAM

Field: Anschutz Ranch East Field
 Well: No. W23-12

SB: ZB TWP: AN R9E: 8E

KB Correction: 7784'

13-3/8" @ 3,061'

9-7/8" 62.0W LT&C @ 10,588'

ID	OD	Length
----	----	--------

Tubing hanger: CIW "N" 7-1/16

3.030"	6.250"	0.52'
--------	--------	-------

Top Pup: 3 1/2" 12.75 L-85 Van

2.75"	3.50"	4.05'
-------	-------	-------

"R"

Oils "R" nipple W/2.562" profile

2.562"	4.12"	1.12'
--------	-------	-------

Wireline reentry guide: Centralized in 7"

2.750"	5.950"	1.04'
--------	--------	-------

End of tbg
 (total length of tbg and tools below wellhead = 6.21')

BAKER "DB" PACKER

"X" NIPPLE

"XN" NIPPLE

11,730'

11,892'

12,600'

CTBP SET @ 12,680'

12,764'

12,947'

7" CASING

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number:
FEE

6. If Indian, Address of Tribe Name:

7. Unit Agreement Name:
Anschutz Ranch East

8. Well Name and Number:
ARE W29-12

9. API Well Number:
4304330154

10. Field and Pool, or Wildcat:
Anschutz Ranch East

County: **Summit**
State: **Utah**

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

1. Type of Well: OIL GAS OTHER:

2. Name of Operator: **Amoco Production Company**

3. Address and Telephone Number: Ph (281) 366-5798
501 Westlake Park Blvd, Houston, TX 77253-3092

4. Location of Well
Footage: **2204' FSL x 22' FEL**

OO, Sec., T., R., M.: **Section: 29 TWP: 4N R6E: 8E**

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT
(Submit in Duplicate)

- Abandon
- Repair Casing
- Change of Plans
- Convert to Injection
- Fracture Treat or Acidize
- Multiple Completion
- Other
- New Construction
- Pull or Alter Casing
- Recomplete
- Reperforate
- Vent or Flare
- Water Shut-Off

SUBSEQUENT REPORT
(Submit Original Form Only)

- Abandon
- Repair Casing
- Change of Plans
- Convert to Injection
- Fracture Treat or Acidize
- Other **Pull Tubing - Flow up casing**
- New Construction
- Pull or Alter Casing
- Reperforate
- Vent or Flare
- Water Shut-Off

Date of work completion **May 22, 2000**

Report results of Multiple Completions and Re-completions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.
* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

-Please see attached procedure and wellbore diagram

13. Name & Signature: *Jon Love* Title: *Operations Engineer* Date: *10/13/00*

APPROVED
The Utah Division of Oil, Gas and Mining
Robert J. Krueger, PE, Petroleum Engineer

COPY SENT TO OPERATOR
Date: *10-24-00*
Initials: *CHP*

Date: *10-24-00* (See Instructions on Reverse Side)

BP AMOCO

UPDATED: 06/26/90

Submitted by: M. Olson

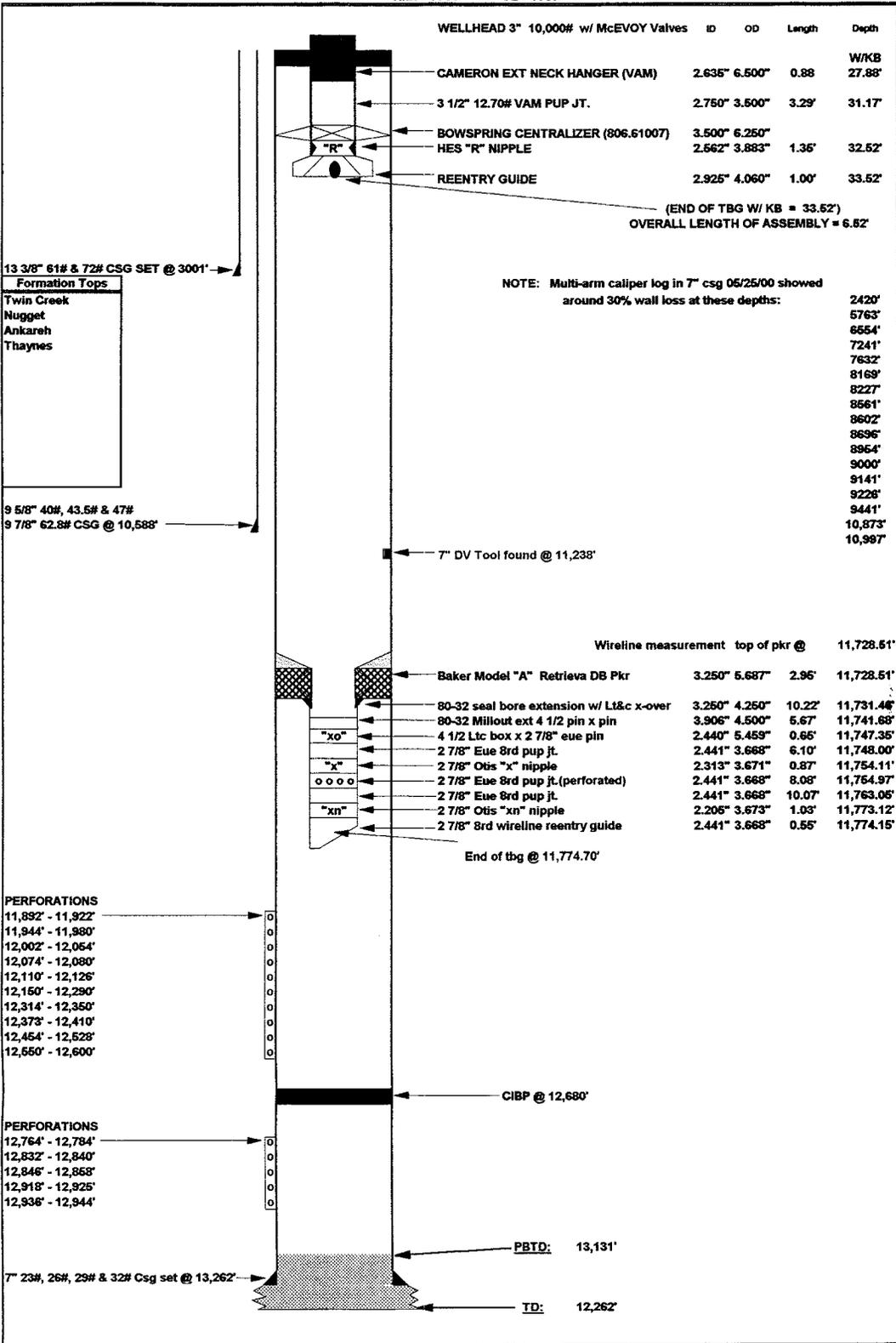
WELLBORE DIAGRAM

Field: Anschutz Ranch
Well: W 29-12

SEC: 29 TWP: 4N RGE: 8E

K.B. = 7764' GL = 7737'

K.B. 27 FT.



Workover Procedure

Anschutz Well No. W29-12

Location: Section 29, T04N-R8E County: Summit State: Utah

Objective: Pull the tubing string without losing water to the formation

Caution: please review well history and completion diagram in detail before proceeding

Conduct all pre-workover safety meetings.

NOTE: Xmas tree is to be completely refurbished and tested. A second valve is to be installed on the wellhead annular outlet while the well is dead with downhole plugs in place. This is to provide double barrier protection when rigging up lines to the annulus.

1. Rigup workover rig, two tanks (500 bbls each), piping, annulus manifold and pumps for pumping kill weight fluid (water) down the annulus and tubing if necessary. (have xmas tree sent in for complete rebuild).
2. Shut well in and shutoff chemical injection (if applicable)
3. Rig up Schlumberger electric line unit and lubricator. Rig up Nitrogen tanks and pumps. Tie in N₂ to pump down the tubing. Pressure test all lines to 3,000 psi for 5 minutes. Pressure test lubricator to 3,000 psi for 5 minutes.
4. RIH with electric line and set plug in the bottom Otis 2.313" "XN" nipple profile at 11,773 ft. RIH and sting in with equalizing prong. Bleed down any pressure in the tubing string to test lower plug and so as to not trap pressure. RIH and set plug in the Otis 2.313" "X" nipple 11,754 ft. RIH and sting in with equalizing prong. Rig down slickline.
5. Pickup tubing string approximately 20 ft and sting out of the Baker "DB" packer at 11,730 ft. with locator seal assembly. *NOTE: annular hydrostatic pressure is approximately 5,000 psi. Prior to stinging out of packer fill tubing string with fresh water to minimize differential*

6. After locator has been stung out immediately begin pumping down the annulus and up the tubing to clear downhole debris. Displace with water until packer top is clean.
7. Begin pumping down the tubing with nitrogen displacing water up the annulus to a 500 bbl holding tank until the tubing and annulus are dry. Rig down N2 equip. (keep on standby).
8. Bleed nitrogen pressure off the annulus. Check the well for flow.
9. Pull out of hole with the tubing string laying down in singles.
10. Rig up Schlumberger electric line and lubricator. Run in with hydrostatic bailer to clear debris from top plug.
11. RIH with electric line, equalize pressure and PULL plug from the Otis 2.313" "X" nipple at 11,754 ft. Pump 20 bbls of 2% KCL on to bottom plug to minimize differential (estimated pressure below plug is approximately 2,500 to 3,500 psi). RIH with slickline, latch onto prong, equalize pressure and PULL plug from the bottom Otis "XN" nipple profile 11,773 ft. Use N2 as necessary to assist with release of plug.
12. Rig up Weatherford e-line and caliper. Run 40 arm caliper (tool OD 3.55") from 11,600 ft to surface to check casing ovality and pitting problems. Immediately report any ovality concerns to Houston ext. 2036
13. Rigup lubricator with 6 ft completion inside. Pressure test lubricator. RIH with centralized wireline re-entry guide, Otis 2.562" "R" nipple and hanger. (Provides double barrier protection for surface seals).
14. Land and tighten hanger. Rig down. Place well on production.

NOTE: any time lubricator connection is broken lubricator must be retested to 3,000 psi for 5 minutes.

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>See Attached</u>		5. LEASE DESIGNATION AND SERIAL NUMBER:
2. NAME OF OPERATOR: Amoco Production Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 501 Westlake Park Blvd, Houston CITY TX STATE ZIP 77079		7. UNIT or CA AGREEMENT NAME: See Attached
4. LOCATION OF WELL FOOTAGES AT SURFACE: <u>See Attached</u>		8. WELL NAME and NUMBER: See Attached
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		9. API NUMBER: Attached
COUNTY: <u>See Attached</u>		10. FIELD AND POOL, OR WILDCAT: See Attached
STATE: <u>UTAH</u>		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Operator Name Change</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Amoco Production Company proposes to change its name to BP America Production Company, effective December 31, 2001. Mailing addresses and designated agents shall remain the same.

Attached to this sundry is a listing of wells currently operated by Amoco Production Company. This list includes all wells with the exception of those wells which have a plugged or D&A status.

Also attached for the Board's file is a copy of the Board Resolution approving the name change.

NAME (PLEASE PRINT) <u>Alan Wood</u>	TITLE <u>Regulatory Engineer</u>
SIGNATURE 	DATE <u>12/11/2001</u>

(This space for State use only)

RECEIVED

DEC 13 2001

DIVISION OF
OIL, GAS AND MINING

UNITED STATES OF AMERICA §
STATE OF TEXAS §
COUNTY OF HARRIS §
CITY OF HOUSTON §

CERTIFICATE

M. S. Haskins, of lawful age, first being duly sworn on oath, deposes and says:

1. That she is the duly elected, qualified and acting Assistant Secretary of Amoco Production Company, a corporation organized and existing under the laws of the State of Delaware, U.S.A.;

2. That on November 12, 2001, by consent action of the Board of Directors of Amoco Production Company (hereinafter referred to as "Company"), the following resolutions were adopted:

WHEREAS, in connection with BP America Inc.'s ("BP") integration of Atlantic Richfield Company ("ARCO") and Vastar Resources, Inc. ("Vastar"), BP has elected to reorganize, consolidate and merge its upstream onshore Lower 48 assets into a single legal entity to align BP's legal structure with its business organization and to improve operating efficiencies; and

WHEREAS, BP desires Amoco Production Company ("Company") to be such single legal entity for the purposes of such reorganization, consolidation and merger; and

WHEREAS such reorganization, consolidation and merger shall be accomplished by December 31, 2001 pursuant to a Reorganization Agreement ("Agreement") by and between ARCO and BP Company North America Inc. ("BP Company NA"), the parent of Company, resulting in ARCO's upstream onshore Lower 48 assets being transferred to Company and Vastar being merged into Company; and

WHEREAS, pursuant to such Agreement, asset, stock and liability transfers will occur in consideration for Class B common stock of BP Company NA and Company's agreement to assume all obligations and indemnify ARCO for all past and future liabilities relating to such transfers; and

WHEREAS, in connection with such reorganization, Company desires to change its name to BP America Production Company, effective December 31, 2001 with corporate seal as follows; and



WHEREAS all officers and directors of Company will remain unchanged.

NOW, THEREFORE, BE IT,

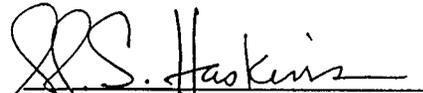
RESOLVED, Company will accept asset, stock and liability transfers effective December 31, 2001 pursuant to the Agreement and will assume all obligations and indemnify ARCO for all past or future liabilities relating to such transfers.

FURTHER RESOLVED, Company will change its name and corporate seal to BP America Production Company, effective December 31, 2001 and all officers and directors will remain unchanged.

3. That the aforesaid resolutions have not been amended, rescinded, or annulled, but remain in full force and effect on the date hereof.

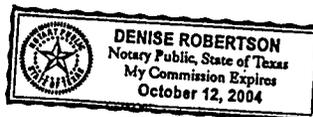
EXECUTED in the City of Houston, State of Texas, on this the 13 day of November, 2001.




M. S. Haskins

SUBSCRIBED and sworn to before me this 13 day of November, 2001.

(Notary Seal)




NOTARY PUBLIC, STATE OF TEXAS

API Well Number	Operator	Well Name	Well Type	Well Status	Field Name	Sec	Twp-Rng
43-043-30096-00-00	AMOCO PRODUCTION CO	ANSCHUTZ RANCH EAST W16-14	Gas Well	Shut_In	ANSCHUTZ RANCH EAST	16	4N-8E
43-043-30106-00-00	AMOCO PRODUCTION CO	ANSCHUTZ RANCH EAST 34-2	SWD	Active Well	ANSCHUTZ RANCH EAST	34	4N-7E
43-043-30123-00-00	AMOCO PRODUCTION CO	ARE W20-08	Gas Well	Producing Well	ANSCHUTZ RANCH EAST	20	4N-8E
43-043-30129-00-00	AMOCO PRODUCTION CO	ARE 29-04ST1	Gas Well	Producing Well	ANSCHUTZ RANCH EAST	29	4N-8E
43-043-30130-00-00	AMOCO PRODUCTION CO	ANSCHUTZ RANCH EAST E21-14	Gas Well	Shut_In	ANSCHUTZ RANCH EAST	21	4N-8E
43-043-30135-00-00	AMOCO PRODUCTION CO	ANSCHUTZ RANCH EAST W21-04	Gas Well	Shut_In	ANSCHUTZ RANCH EAST	21	4N-8E
43-043-30136-00-00	AMOCO PRODUCTION CO	ARE W29-02	Gas Well	Producing Well	ANSCHUTZ RANCH EAST	29	4N-8E
43-043-30138-00-00	AMOCO PRODUCTION CO	ANSCHUTZ RANCH EAST W16-06	Gas Well	Shut_In	ANSCHUTZ RANCH EAST	16	4N-8E
43-043-30139-00-00	AMOCO PRODUCTION CO	ISLAND RANCHING C-1	SWD	Active Well	ANSCHUTZ RANCH EAST	26	4N-7E
43-043-30143-00-00	AMOCO PRODUCTION CO	CHAMPLIN 372 AMOCO C 1	Gas Well	Producing Well	ANSCHUTZ RANCH EAST	23	4N-7E
43-043-30145-00-00	AMOCO PRODUCTION CO	ARE W20-14	Gas Well	Producing Well	ANSCHUTZ RANCH EAST	20	4N-8E
43-043-30148-00-00	AMOCO PRODUCTION CO	ARE W20-16	Gas Well	Producing Well	ANSCHUTZ RANCH EAST	20	4N-8E
43-043-30154-00-00	AMOCO PRODUCTION CO	ARE W29-12	Gas Well	Producing Well	ANSCHUTZ RANCH EAST	29	4N-8E
43-043-30156-00-00	AMOCO PRODUCTION CO	ARE W30-16	Gas Well	Producing Well	ANSCHUTZ RANCH EAST	30	4N-8E
43-043-30157-00-00	AMOCO PRODUCTION CO	ARE W36-16	Gas Well	Producing Well	ANSCHUTZ RANCH EAST	36	4N-7E
43-043-30159-00-00	AMOCO PRODUCTION CO	ANSCHUTZ RANCH EAST W20-06	Gas Well	Shut_In	ANSCHUTZ RANCH EAST	20	4N-8E
43-043-30161-00-00	AMOCO PRODUCTION CO	ISLAND RANCHING D-1	Gas Well	Shut_In	WEBER FORMATION	14	4N-7E
43-043-30162-00-00	AMOCO PRODUCTION CO	ARE W32-04	Gas Well	Producing Well	ANSCHUTZ RANCH EAST	32	4N-8E
43-043-30164-00-00	AMOCO PRODUCTION CO	ARE W31-08	Gas Well	Producing Well	ANSCHUTZ RANCH EAST	31	4N-8E
43-043-30165-00-00	AMOCO PRODUCTION CO	ANSCHUTZ RANCH EAST W31-04 E	Gas Well	Shut_In	ANSCHUTZ RANCH EAST	31	4N-8E
43-043-30167-00-00	AMOCO PRODUCTION CO	ARE W36-08	Gas Well	Producing Well	ANSCHUTZ RANCH EAST	36	4N-7E
43-043-30168-00-00	AMOCO PRODUCTION CO	CHAMPLIN 387 B1A	Gas Well	Shut_In	ANSCHUTZ RANCH EAST	9	3N-7E
43-043-30170-00-00	AMOCO PRODUCTION CO	CHAMPLIN 372 D-1	Gas Well	Producing Well	ANSCHUTZ RANCH EAST	23	4N-7E
43-043-30176-00-00	AMOCO PRODUCTION CO	ANSCHUTZ RANCH EAST W17-16	Gas Well	Shut_In	ANSCHUTZ RANCH EAST	17	4N-8E
43-043-30183-00-00	AMOCO PRODUCTION CO	ARE W30-08	Gas Well	Producing Well	ANSCHUTZ RANCH EAST	30	4N-8E
43-043-30185-00-00	AMOCO PRODUCTION CO	ANSCHUTZ RANCH EAST W30-14	Gas Well	Producing Well	ANSCHUTZ RANCH EAST	30	4N-8E
43-043-30188-00-00	AMOCO PRODUCTION CO	ARE W01-06	Gas Well	Producing Well	ANSCHUTZ RANCH EAST	1	3N-7E
43-043-30190-00-00	AMOCO PRODUCTION CO	ANSCHUTZ RANCH EAST W31-12	Gas Well	Shut_In	ANSCHUTZ RANCH EAST	31	4N-8E
43-043-30204-00-00	AMOCO PRODUCTION CO	ANSCHUTZ RANCH EAST W19-16	Gas Well	Shut_In	ANSCHUTZ RANCH EAST	19	4N-8E
43-043-30209-00-00	AMOCO PRODUCTION CO	ARE W1-02	Gas Well	Producing Well	ANSCHUTZ RANCH EAST	1	3N-7E
43-043-30215-00-00	AMOCO PRODUCTION CO	ARE W30-10	Gas Well	Producing Well	ANSCHUTZ RANCH EAST	30	4N-8E
43-043-30216-00-00	AMOCO PRODUCTION CO	ARE W30-15	Gas Well	Producing Well	ANSCHUTZ RANCH EAST	30	4N-8E
43-043-30217-00-00	AMOCO PRODUCTION CO	ARE W31-06	Gas Well	Producing Well	ANSCHUTZ RANCH EAST	31	4N-8E
43-043-30218-00-00	AMOCO PRODUCTION CO	ARE W30-02	Gas Well	Producing Well	ANSCHUTZ RANCH EAST	30	4N-8E

OPERATOR CHANGE WORKSHEET

ROUTING

1. GLH		4-KAS
2. CDW	✓	5-LP
3. JLT		6-FILE

Enter date after each listed item is completed

Change of Operator (Well Sold)

Designation of Agent

X Operator Name Change

Merger

The operator of the well(s) listed below has changed, effective: **12-31-2001**

FROM: (Old Operator):
AMOCO PRODUCTION COMPANY
Address: 501 WESTLAKE PARK BLVD
HOUSTON, TX 77079
Phone: 1-(281)-366-5328
Account N0050

TO: (New Operator):
BP AMERICA PRODUCTION COMPANY
Address: 501 WESTLAKE PARK BLVD
HOUSTON, TX 77079
Phone: 1-(281)-366-5328
Account N1990

CA No. **Unit: ANSCHUTZ RANCH EAST**

WELL(S)

NAME	API NO.	ENTITY NO.	SEC. TWN RNG	LEASE TYPE	WELL TYPE	WELL STATUS
ANSCHUTZ RANCH EAST W20-02	43-043-30228	4540	20-4N-8E	FEE	GW	S
ANSCHUTZ RANCH EAST W20-03	43-043-30291	4540	20-4N-8E	FEE	GW	S
ANSCHUTZ RANCH EAST W20-04	43-043-30238	4540	20-4N-8E	FEE	GW	S
ANSCHUTZ RANCH EAST W20-06	43-043-30159	4540	20-4N-8E	FEE	GW	S
ANSCHUTZ RANCH EAST W20-09	43-043-30286	4540	20-4N-8E	FEE	GW	P
ANSCHUTZ RANCH EAST W20-10	43-043-30229	4540	20-4N-8E	FEE	GW	P
ANSCHUTZ RANCH EAST W20-12	43-043-30220	4540	20-4N-8E	FEE	GW	S
ANSCHUTZ RANCH EAST E21-14	43-043-30130	4540	21-4N-8E	FEE	GW	S
ANSCHUTZ RANCH EAST W21-04	43-043-30135	4540	21-4N-8E	FEE	GW	S
ANSCHUTZ RANCH EAST E28-06	43-043-30226	4540	28-4N-8E	FEE	GW	P
ANSCHUTZ RANCH EAST E28-12	43-043-30257	4540	28-4N-8E	FEE	GW	P
ARE 29-04STI	43-043-30129	4540	29-4N-8E	FEE	GW	P
ANSCHUTZ RANCH EAST W29-02	43-043-30136	4540	29-4N-8E	FEE	GW	P
ANSCHUTZ RANCH EAST W29-12	43-043-30154	4540	29-4N-8E	FEE	GW	P
ANSCHUTZ RANCH EAST W29-06A	43-043-30250	4540	29-4N-8E	FEE	GW	P
ANSCHUTZ RANCH EAST W29-14A	43-043-30251	4540	29-4N-8E	FEE	GW	P
ANSCHUTZ RANCH EAST W30-08	43-043-30183	4540	30-4N-8E	FEE	GW	P
ANSCHUTZ RANCH EAST W30-10	43-043-30215	4540	30-4N-8E	FEE	GW	P
ANSCHUTZ RANCH EAST W30-14	43-043-30185	4540	30-4N-8E	FEE	GW	S
ANSCHUTZ RANCH EAST W30-16	43-043-30156	4540	30-4N-8E	FEE	GW	P

OPERATOR CHANGES DOCUMENTATION

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 12/13/2001
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 12/13/2001

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>See Attached</u>		5. LEASE DESIGNATION AND SERIAL NUMBER:
2. NAME OF OPERATOR: BP America Production Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 501 WestLake Park Blv CITY Houston STATE TX ZIP 77079		7. UNIT or CA AGREEMENT NAME: See Attached
4. LOCATION OF WELL FOOTAGES AT SURFACE: See Attached		8. WELL NAME and NUMBER: See Attached
PHONE NUMBER: (281) 366-2000		9. API NUMBER: Attached
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		10. FIELD AND POOL, OR WILDCAT: See Attached
COUNTY: See Attached		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

BP America Production Company, effective May 1, 2003, has transferred its interest in the attached list of properties to :

Merit Energy Company
13727 Noel Road, Suite 500
Dallas, TX 75240

Transfer of operations is effective July 1, 2003.

By Merit Energy Company

Name Forst N. Digm Title V.P.

Signature [Signature] Date 7/1/03

BP America Production Company
NAME (PLEASE PRINT) David G. Peterson TITLE Attorney-In-Fact
SIGNATURE [Signature] DATE 6/26/03

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RECEIVED
JUL 03 2003

BP OPERATED PROPERTIES TRANSFERRED TO MERIT ENERGY COMPANY

API Well Number	Operator	Well Name	Well Type	Well Status	Field Name	County Name	Location (Twp-Rng)	Section	Qtr/Qtr	Ft. NS	NS	Ft. EW	EW
43-043-30096-00-00	BP AMERICA PRODUCTION CO	ARE W16-14	Gas Well	Shut_In	ANSCHUTZ RANCH EAST	SUMMIT	4N-8E	16	NWSW	2137	S	686	W
43-043-30106-00-00	BP AMERICA PRODUCTION CO	ARE 34-2	Water Disposal	Active Well	ANSCHUTZ RANCH	SUMMIT	4N-7E	34	NWNW	1036	N	1100	W
43-043-30123-00-00	BP AMERICA PRODUCTION CO	ARE W20-08	Gas Well	Shut_In	ANSCHUTZ RANCH EAST	SUMMIT	4N-8E	20	SENE	2202	N	1592	E
43-043-30129-00-00	BP AMERICA PRODUCTION CO	ARE 29-04ST1	Gas Well	Producing Well	ANSCHUTZ RANCH EAST	SUMMIT	4N-8E	29	NWNW	627	N	435	W
43-043-30130-00-00	BP AMERICA PRODUCTION CO	ARE E21-14	Gas Well	Shut_In	ANSCHUTZ RANCH EAST	SUMMIT	4N-8E	21	NWSW	2365	S	200	W
43-043-30135-00-00	BP AMERICA PRODUCTION CO	ARE W21-04	Gas Well	Shut_In	ANSCHUTZ RANCH EAST	SUMMIT	4N-8E	21	NWNW	1063	N	401	W
43-043-30136-00-00	BP AMERICA PRODUCTION CO	ARE W29-02	Gas Well	Producing Well	ANSCHUTZ RANCH EAST	SUMMIT	4N-8E	29	NWNE	662	N	2460	E
43-043-30138-00-00	BP AMERICA PRODUCTION CO	ARE W16-06	Gas Well	Shut_In	ANSCHUTZ RANCH EAST	SUMMIT	4N-8E	16	SENE	1314	N	618	E
43-043-30139-00-00	BP AMERICA PRODUCTION CO	ISLAND RANCHING C-1	Water Disposal	Active Well	ANSCHUTZ RANCH	SUMMIT	4N-7E	26	SWSE	1324	S	1722	E
43-043-30143-00-00	BP AMERICA PRODUCTION CO	CHAMPLIN 372 AMOCO C 1	Gas Well	Shut_In	ANSCHUTZ RANCH	SUMMIT	4N-7E	23	NWNW	860	N	536	W
43-043-30145-00-00	BP AMERICA PRODUCTION CO	ARE W20-14	Gas Well	Producing Well	ANSCHUTZ RANCH EAST	SUMMIT	4N-8E	20	NWSW	1518	S	1283	W
43-043-30148-00-00	BP AMERICA PRODUCTION CO	ARE W20-16	Gas Well	Producing Well	ANSCHUTZ RANCH EAST	SUMMIT	4N-8E	20	SWSE	257	S	1640	E
43-043-30154-00-00	BP AMERICA PRODUCTION CO	ARE W29-12	Gas Well	Producing Well	ANSCHUTZ RANCH EAST	SUMMIT	4N-8E	29	NWSW	2204	S	22	W
43-043-30156-00-00	BP AMERICA PRODUCTION CO	ARE W30-16	Gas Well	Producing Well	ANSCHUTZ RANCH EAST	SUMMIT	4N-8E	30	NESE	1345	S	968	E
43-043-30157-00-00	BP AMERICA PRODUCTION CO	ARE W36-16	Gas Well	Producing Well	ANSCHUTZ RANCH EAST	SUMMIT	4N-7E	36	SESE	890	S	447	E
43-043-30159-00-00	BP AMERICA PRODUCTION CO	ARE W20-06	Gas Well	Shut_In	ANSCHUTZ RANCH EAST	SUMMIT	4N-8E	20	NWNW	1291	N	936	W
43-043-30162-00-00	BP AMERICA PRODUCTION CO	ARE W32-04	Gas Well	Producing Well	ANSCHUTZ RANCH EAST	SUMMIT	4N-8E	32	NWNW	642	N	791	W
43-043-30164-00-00	BP AMERICA PRODUCTION CO	ARE W31-08	Gas Well	Producing Well	ANSCHUTZ RANCH EAST	SUMMIT	4N-8E	31	NWNE	468	N	2201	E
43-043-30165-00-00	BP AMERICA PRODUCTION CO	ARE W31-04E	Gas Well	Shut_In	ANSCHUTZ RANCH EAST	SUMMIT	4N-8E	31	NWNW	111	N	737	W
43-043-30167-00-00	BP AMERICA PRODUCTION CO	ARE W36-08	Gas Well	Shut_In	ANSCHUTZ RANCH EAST	SUMMIT	4N-7E	36	SENE	1641	N	1183	E
43-043-30168-00-00	BP AMERICA PRODUCTION CO	CHAMPLIN 387 B1A	Gas Well	Shut_In	ANSCHUTZ RANCH	SUMMIT	3N-7E	9	SWNW	1837	N	1286	W
43-043-30170-00-00	BP AMERICA PRODUCTION CO	CHAMPLIN 372 D-1	Gas Well	Producing Well	ANSCHUTZ RANCH	SUMMIT	4N-7E	23	NESE	2170	S	680	E
43-043-30176-00-00	BP AMERICA PRODUCTION CO	ARE W17-16	Gas Well	Shut_In	ANSCHUTZ RANCH EAST	SUMMIT	4N-8E	17	NWSE	1765	S	1444	E
43-043-30183-00-00	BP AMERICA PRODUCTION CO	ARE W30-08	Gas Well	Producing Well	ANSCHUTZ RANCH EAST	SUMMIT	4N-8E	30	SENE	2109	N	665	E
43-043-30185-00-00	BP AMERICA PRODUCTION CO	ARE W30-14	Gas Well	Shut_In	ANSCHUTZ RANCH EAST	SUMMIT	4N-8E	30	SESW	1195	S	1405	W
43-043-30188-00-00	BP AMERICA PRODUCTION CO	ARE W01-06	Gas Well	Producing Well	ANSCHUTZ RANCH EAST	SUMMIT	3N-7E	1	SENE	1777	N	1666	W
43-043-30190-00-00	BP AMERICA PRODUCTION CO	ARE W31-12	Gas Well	Shut_In	ANSCHUTZ RANCH EAST	SUMMIT	4N-8E	31	SWNW	1778	N	640	W
43-043-30204-00-00	BP AMERICA PRODUCTION CO	ARE W19-16	Gas Well	Shut_In	ANSCHUTZ RANCH EAST	SUMMIT	4N-8E	19	SWSE	1229	S	1350	E
43-043-30209-00-00	BP AMERICA PRODUCTION CO	ARE W01-02	Gas Well	Producing Well	ANSCHUTZ RANCH EAST	SUMMIT	3N-7E	1	NENW	386	N	2013	W
43-043-30215-00-00	BP AMERICA PRODUCTION CO	ARE W30-10	Gas Well	Producing Well	ANSCHUTZ RANCH EAST	SUMMIT	4N-8E	30	NWSE	2230	S	2432	E
43-043-30216-00-00	BP AMERICA PRODUCTION CO	ARE W30-15	Gas Well	Producing Well	ANSCHUTZ RANCH EAST	SUMMIT	4N-8E	30	SESW	626	S	2848	E
43-043-30217-00-00	BP AMERICA PRODUCTION CO	ARE W31-06	Gas Well	Producing Well	ANSCHUTZ RANCH EAST	SUMMIT	4N-8E	31	SENE	1397	N	2181	W
43-043-30218-00-00	BP AMERICA PRODUCTION CO	ARE W30-02	Gas Well	Shut_In	ANSCHUTZ RANCH EAST	SUMMIT	4N-8E	30	NWNE	715	N	2182	E
43-043-30220-00-00	BP AMERICA PRODUCTION CO	ARE W20-12	Gas Well	Shut_In	ANSCHUTZ RANCH EAST	SUMMIT	4N-8E	20	NWSW	2531	S	7	W
43-043-30226-00-00	BP AMERICA PRODUCTION CO	ARE E28-06	Gas Well	Producing Well	ANSCHUTZ RANCH EAST	SUMMIT	4N-8E	28	SENE	1900	N	1652	W
43-043-30227-00-00	BP AMERICA PRODUCTION CO	ARE W36-10	Gas Well	Shut_In	ANSCHUTZ RANCH EAST	SUMMIT	4N-7E	36	NESW	2315	S	3185	E
43-043-30228-00-00	BP AMERICA PRODUCTION CO	ARE W20-02	Gas Well	Shut_In	ANSCHUTZ RANCH EAST	SUMMIT	4N-8E	20	NWNE	319	N	2000	E
43-043-30229-00-00	BP AMERICA PRODUCTION CO	ARE W20-10	Gas Well	Producing Well	ANSCHUTZ RANCH EAST	SUMMIT	4N-8E	20	SENE	2560	N	2567	W
43-043-30231-00-00	BP AMERICA PRODUCTION CO	ARE W16-12	Gas Well	Shut_In	ANSCHUTZ RANCH EAST	SUMMIT	4N-8E	16	SWNW	2756	S	454	W
43-043-30238-00-00	BP AMERICA PRODUCTION CO	ARE W20-04	Gas Well	Shut_In	ANSCHUTZ RANCH EAST	SUMMIT	4N-8E	20	NWNW	702	N	414	W
43-043-30248-00-00	BP AMERICA PRODUCTION CO	ARE W30-12A	Gas Injection	Inactive Well	ANSCHUTZ RANCH EAST	SUMMIT	4N-8E	30	NWSW	1886	S	47	W
43-043-30250-00-00	BP AMERICA PRODUCTION CO	ARE W29-06A	Gas Well	Producing Well	ANSCHUTZ RANCH EAST	SUMMIT	4N-8E	29	SENE	1513	N	1548	W
43-043-30251-00-00	BP AMERICA PRODUCTION CO	ARE W29-14A	Gas Well	Producing Well	ANSCHUTZ RANCH EAST	SUMMIT	4N-8E	29	NWSW	1786	S	795	W
43-043-30255-00-00	BP AMERICA PRODUCTION CO	ARE W36-14	Gas Well	Shut_In	ANSCHUTZ RANCH EAST	SUMMIT	4N-7E	36	SESW	901	S	1780	W
43-043-30257-00-00	BP AMERICA PRODUCTION CO	ARE E28-12	Gas Well	Producing Well	ANSCHUTZ RANCH EAST	SUMMIT	4N-8E	28	NWSW	1994	S	806	W
43-043-30265-00-00	BP AMERICA PRODUCTION CO	ARE W2-10	Gas Injection	Inactive Well	ANSCHUTZ RANCH EAST	SUMMIT	3N-7E	2	NWSE	1959	S	1463	E
43-043-30270-00-00	BP AMERICA PRODUCTION CO	ARE W01-04	Gas Well	Shut_In	ANSCHUTZ RANCH EAST	SUMMIT	3N-7E	1	SWNW	697	N	465	W
43-043-30271-00-00	BP AMERICA PRODUCTION CO	ARE W01-12	Gas Well	Shut_In	ANSCHUTZ RANCH EAST	SUMMIT	3N-7E	1	NWSW	2072	S	1669	W
43-043-30272-00-00	BP AMERICA PRODUCTION CO	ARE W19-08	Gas Injection	Inactive Well	ANSCHUTZ RANCH EAST	SUMMIT	4N-8E	19	SENE	2227	N	301	E

BP OPERATED PROPERTIES TRANSFERRED TO MERIT ENERGY COMPANY

43-043-30273-00-00	BP AMERICA PRODUCTION CO	ARE W30-06	Gas Well	Shut_In	ANSCHUTZ RANCH EAST	SUMMIT	4N-8E	30 SENW	2393 S	1645 W
43-043-30277-00-00	BP AMERICA PRODUCTION CO	ARE W11-1	Gas Well	Shut_In	ANSCHUTZ RANCH EAST	SUMMIT	3N-7E	11 NENE	533 N	1486 E
43-043-30279-00-00	BP AMERICA PRODUCTION CO	ARE W30-13	Gas Well	Shut_In	ANSCHUTZ RANCH EAST	SUMMIT	4N-7E	25 SESE	597 S	382 E
43-043-30280-00-00	BP AMERICA PRODUCTION CO	ARE W31-05	Gas Well	Producing Well	ANSCHUTZ RANCH EAST	SUMMIT	4N-8E	31 SWNW	2361 N	282 E
43-043-30283-00-00	BP AMERICA PRODUCTION CO	ARE W12-04	Gas Well	Producing Well	ANSCHUTZ RANCH EAST	SUMMIT	3N-7E	2 SESE	373 S	865 E
43-043-30286-00-00	BP AMERICA PRODUCTION CO	ARE W20-09	Gas Well	Producing Well	ANSCHUTZ RANCH EAST	SUMMIT	4N-8E	20 SENE	2360 N	430 E
43-043-30291-00-00	BP AMERICA PRODUCTION CO	ARE W20-03	Gas Well	Shut_In	ANSCHUTZ RANCH EAST	SUMMIT	4N-8E	20 SESW	641 S	1810 W



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
(801) 538-5340 telephone
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Michael O. Leavitt
Governor

Robert L. Morgan
Executive Director

Lowell P. Braxton
Division Director

August 26, 2003

Bruce Williams
BP America Production Company
501 WestLake Park Blvd
Houston, TX 77079

Subject: Notification of Sale or Transfer of Fee Lease Interest

Dear Mr. Williams:

The Division has processed your request for an operator change from BP America Production Company to Merit Energy Company effective July 1, 2003 for the attached list of fee wells.

Utah Administrative Code Rule R649-2-10 states: "The owner of a lease shall provide notification to any person with an interest in such lease, when all or part of that interest in the lease is sold or transferred".

This letter is written to advise you of your responsibility to notify all individuals with an interest in these leases (royalty interest and working interest) of the changer. Please provide written documentation of this notification to:

Utah Royalty Owners Association
PO Box 1292
Roosevelt, Utah 84066

Your assistance in this matter is appreciated.

Sincerely,

Earlene Russell
Earlene Russell
Engineering Technician

Attachment

cc: Merit Energy Company
Utah Royalty Owners Association

OPERATOR CHANGE WORKSHEET

ROUTING

1. GLH
2. CDW
3. FILE

X Change of Operator (Well Sold)

Designation of Agent/Operator

Operator Name Change

Merger

The operator of the well(s) listed below has changed, effective:

7/1/2003

FROM: (Old Operator): N1990-BP America Production Company 501 WestLake Park Blvd Houston, TX 77079 Phone: (281) 366-2000	TO: (New Operator): N4900-Merit Energy Company 13727 Noel Road, Suite 500 Dallas, TX 75240 Phone: (972) 628-1558
---	--

CA No.

Unit:

ANSCHUTZ RANCH EAST

WELL(S)

NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
ARE W01-06	01	030N	070E	4304330188	4540	FEE	GW	P
ARE W36-16	36	040N	070E	4304330157	4540	FEE	GW	P
ARE W36-08	36	040N	070E	4304330167	4540	FEE	GW	S
ARE W16-14	16	040N	080E	4304330096	4540	FEE	GW	S
ARE W16-06	16	040N	080E	4304330138	4540	FEE	GW	S
ARE W17-16	17	040N	080E	4304330176	4540	FEE	GW	S
ARE W20-08	20	040N	080E	4304330123	4540	FEE	GW	S
ARE W20-14	20	040N	080E	4304330145	4540	FEE	GW	P
ARE W20-16	20	040N	080E	4304330148	4540	FEE	GW	P
ARE W20-06	20	040N	080E	4304330159	4540	FEE	GW	S
ARE E21-14	21	040N	080E	4304330130	4540	FEE	GW	S
ARE W21-04	21	040N	080E	4304330135	4540	FEE	GW	S
ARE 29-04ST1	29	040N	080E	4304330129	4540	FEE	GW	P
ARE W29-02	29	040N	080E	4304330136	4540	FEE	GW	P
ARE W29-12	29	040N	080E	4304330154	4540	FEE	GW	P
ARE W30-16	30	040N	080E	4304330156	4540	FEE	GW	P
ARE W30-08	30	040N	080E	4304330183	4540	FEE	GW	P
ARE W30-14	30	040N	080E	4304330185	4540	FEE	GW	S
ARE W31-08	31	040N	080E	4304330164	4540	FEE	GW	P
ARE W31-04E	31	040N	080E	4304330165	4540	FEE	GW	S
ARE W32-04	32	040N	080E	4304330162	4540	FEE	GW	P

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 7/3/2003
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 7/3/2003
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 8/7/2003
- Is the new operator registered in the State of Utah: YES Business Number: 1348145-0143
- If **NO**, the operator was contacted on: _____

6. (R649-9-2)Waste Management Plan has been received on: IN PLACE

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: n/a

8. **Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: n/a

9. **Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: n/a

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: n/a

DATA ENTRY:

- 1. Changes entered in the **Oil and Gas Database** on: 8/26/2003
- 2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 8/26/2003
- 3. Bond information entered in RBDMS on: 8/26/2003
- 4. Fee wells attached to bond in RBDMS on: 8/26/2003

STATE WELL(S) BOND VERIFICATION:

- 1. State well(s) covered by Bond Number: n/a

FEDERAL WELL(S) BOND VERIFICATION:

- 1. Federal well(s) covered by Bond Number: n/a

INDIAN WELL(S) BOND VERIFICATION:

- 1. Indian well(s) covered by Bond Number: n/a

FEE WELL(S) BOND VERIFICATION:

- 1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number 103912218
- 2. The **FORMER** operator has requested a release of liability from their bond on: n/a
The Division sent response by letter on: n/a

LEASE INTEREST OWNER NOTIFICATION:

- 3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: 8/26/2003

COMMENTS:

Merit Energy Company

Field: Anschutz Ranch East

Well Name: AREW29-12 **API #:** 43-043-301540000

State and County: Summit, Utah

Legal Location: NE-NE Sec 29 T-04N R-08E

Scope of Work: Acid Cleanout

2000 gallons 15% HCl Acid

<u>Additives</u>	<u>Purpose</u>
5 gal /1000 AI-8	Inhibitor
1 gal/1000 ASA-3	Anti-Sludging Agent
2 gal /1000 D-3	Demulsifier
0.5 gal /1000 DF-1	Defoamer
7 gal l/1000 S-101	Surfactant
10 gal/1000 ICA-8	Iron Control Agent
4 lbs. /1000 ICA-8C	Iron Control Agent
20 gal/1000 MS-1	Mutual Solvent

Acidizing Procedure

1. Move on Sanjel Equipment, Large Acid Pumper, Transports, and Ball Injector.
2. ***Perform safety and operational meeting detailing all procedures and limitations.***
3. **Roll acid in transport to ensure proper blending.**
4. Rig in equipment to pump down tubing.
5. Pressure test lines to 4000 psi or limit set by company representative.
6. Establish injection rate with clean produced water.
7. Pump 2000 gal 15% acid at ~2 bpm.
8. Flush acid with clean produced water slowing rate to +/- 1 bpm once acid hits perforations.
9. Over flush acid with 20 bbls clean produced water at +/- 1 bpm.
10. Monitor 5, 10, 15 minute shut in pressures.
11. Rig Down Sanjel.

Water would go to one of 2 ARE SWD's.



Merit Energy
Well: ARE W 29-12
15% HCl

Material Sheet Information

<u>Product Name</u>	<u>CAS Number</u>	<u>Chemical Name</u>	<u>Purpose</u>	<u>Volume</u>
HCl	7647-01-0	Hydrochloric Acid	Acid	2000gal
AI-8	107-19-7 67-63-0 Proprietary Proprietary Proprietary	Propargyl Alcohol Isopropanol Polyaoxyalkylenes Fatty Acids Modified Thiourea Polymer	Inhibitor	10 gal
S-101	67-63-0	Isopropanol	Surfactant	14 gal
DF-1	N/A	No hazardous Ingredients	Defoamer	1 gal
ICA-8	7681-53-0	Sodium Hypophosphite	Iron Control Agent	20 gal
ICA-8C	7447-39-4	Copper (II) Chloride	Iron Control Agent	8 lbs
ASA-3	68584-22-5 68648-87-3 7664-93-9	Alkyl benzenesulfonic Acid Benzene, C10-16, Alkyl derivative Sulfuric Acid	Anti-Sludge Agent	2 gal
D-2	126-92-1 104-76-7	Sodium 2-ethylhexyl sulphate 2-ethylhexanol	Demulsifier	4 gal
MS-1	111-76-2	Ethylene Glycol Monobutyl Ether	Mutual Solvent	40 gal



RIT ENERGY COMPANY

Id: ANSCHUTZ RANCH EAST

Well Depth

Location:

Well: ARE W 29 12

Status: Producing

County, State: SUMMIT, UTAH

API: 4304330154

Original Hole, 2/6/2015 1:25:26 PM		Wellbores				
Vertical schematic (proposed)	Vertical schematic (actual)	Wellbore Name	Start Depth (ftKB)			
		Original Hole				
		Plug Back Total Depths				
		Wellbore Name	Date			
		Original Hole				
		Depth (ftKB)	Method			
		12,680.0				
		Zones				
		Zone Name	Top (ftKB)			
		Casing Components				
Csg Des	Run Date	Set Depth (ftKB)	OD (in)	String Length (ft)	Wt (lb/ft)	Grade
Surface		3,001.0	13 3/8	3,001.00	72.00	C-75
Intermediate		10,588.0	9 5/8	10,588.00	47.00	C-95
Production		13,262.0	7	13,262.00	32.00	HC...
		Cement Stages				
Des	Top (ftKB)	Btm (ftKB)	Cement Pumped (sx)			
		Tubing Components				
Item Des	Top (ftKB)	Run Date	OD (in)	Grade	Wt (lb/ft)	Section Length (ft)
Tubing	0.0	6/19/2012	3 1/2	N-8	7.7	12,150...
		Perforation Data				
Date	Top (ftKB)	Btm (ftKB)	Shot Density	Entered Shot	Phasing (°)	Co
	11892	11922				
	11944	11980				
	12002	12054				
	12074	12080				
	12110	12126				
	12150	12290				
	12314	12350				
	12373	12410				
	12454	12528				
	12550	12600				

Merit Energy Company

Field: Anschutz Ranch East

Well Name: AREW29-12 **API #:** 43-043-301540000

State and County: Summit, Utah

Legal Location: NE-NE Sec 29 T-04N R-08E

Scope of Work: Acid Cleanout

Recommended Treatment

2000 gallons 15% HCl Acid Treatment

5 gal./1000 AI-8	Inhibitor
2 gal/1000 D-3	Demulsifier
0.5 gal/1000 DF-1	Defoamer
6 gal/1000 S-101	Surfactant
1 gal/1000 ASA-3	Anti-Sludging Agent
10 gal/1000 ICA-8	Iron Control Agent
4 lbs/1000 ICA-8C	Iron Control Agent
20 gal/1000 MS-1	Mutual Solvent

Acidizing Procedure

1. Move on Sanjel Equipment, Large Acid Pumper, Transports,
2. *Perform safety and operational meeting detailing all procedures and limitations.*
3. **Roll acid in transport to ensure proper blending.**
4. Rig in equipment to pump down tubing.
5. Pressure test lines to 4500 psi or limit set by company representative.
6. Establish injection rate with clean produced water.
7. Pump 2000 gallons 15% HCl acid at a maximum pressure of 4000 psi.
8. Flush acid with KCl water supplied by Merit.
9. Monitor 5, 10, 15 minute shut in pressures.
10. Rig down Sanjel.

Sanjel Name Purpose	Hazardous Ingredients	%	CAS Number
AI-8 Acid Corrosion Inhibitor	Isopropanol	15-40	67-63-0
	Polyoxyalkylenes	10-30	Proprietary*
	Fatty acids	10-30	Proprietary*
	Modified thiourea polymer	10-30	Proprietary*
	Propargyl alcohol	5-10	107-19-7
ASA-3 Anti Sludging Agent	Alkyl benzenesulfonic acid	60-100	68584-22-5
	Benzene, C10-16, alkyl derives	1-5	68648-87-3
	Sulfuric acid	0.5-1.5	7664-93-9
D-3 Demulsifier	Sodium 2-ethylhexyl sulfate	30-60	126-92-1
	2-ethylhexanol	0.5-1.5	104-76-7
DF-1 Defoamer	Contains no WHMIS controlled ingredients	N/A	N/A
HYDROCHLORIC ACID	Hydrogen Chloride Anhydrous	15-40	7647-01-0
S-101 Surfactant	Isopropanol	30-60	67-63-0
ICA-8 Iron Control	Sodium Hypophosphite	40 - 70	7681-53-0
ICA-8C Iron Control	Copper (II) Chloride	100%	7447-39-4
MS-1 Solvent	Ethylene Glycol Monobutyl Ether	100%	111-76-2



RIT ENERGY COMPANY

Id: ANSCHUTZ RANCH EAST

Well Depth

Location:

Well: ARE W 29 12

Status: Producing

County, State: SUMMIT, UTAH

API: 4304330154

Original Hole, 2/6/2015 1:25:26 PM		Wellbores	
Vertical schematic (proposed)	Vertical schematic (actual)	Wellbore Name	Start Depth (ftKB)
		Original Hole	
		Plug Back Total Depths	
		Wellbore Name	Date
		Original Hole	
		Depth (ftKB)	Method
		12,680.0	
		Zones	
		Zone Name	Top (ftKB)
		Casing Components	
Csg Des	Run Date	Set Depth (ftKB)	OD (in)
Surface		3,001.0	13 3/8
Intermediate		10,588.0	9 5/8
Production		13,262.0	7
		String Length (ft)	Wt (lb/ft)
		3,001.00	72.00
		10,588.00	47.00
		13,262.00	32.00
		Grade	
		C-75	
		C-95	
		HC...	
		Cement Stages	
Des	Top (ftKB)	Btm (ftKB)	Cement Pumped (sx)
		Tubing Components	
Item Des	Top (ftKB)	Run Date	OD (in)
Tubing	0.0	6/19/2012	3 1/2
		Grade	Wt (lb/ft)
		N-8	7.7
		Section Length (ft)	
		12,150...	
		Perforation Data	
Date	Top (ftKB)	Btm (ftKB)	Shot Density
	11892	11922	
	11944	11980	
	12002	12054	
	12074	12080	
	12110	12126	
	12150	12290	
	12314	12350	
	12373	12410	
	12454	12528	
	12550	12600	
		Entered Shot	Phasing (°)

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	5. LEASE DESIGNATION AND SERIAL NUMBER: FEE
	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	7. UNIT or CA AGREEMENT NAME: ANSCHUTZ RANCH EAST
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: ARE W29-12
2. NAME OF OPERATOR: MERIT ENERGY COMPANY	9. API NUMBER: 43043301540000
3. ADDRESS OF OPERATOR: 13727 Noel Rd Ste 500 , Dallas, TX, 75240	PHONE NUMBER: 972 628-1540 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2204 FSL 0022 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 29 Township: 04.0N Range: 08.0E Meridian: S	9. FIELD and POOL or WILDCAT: ANSCHUTZ RANCH EAST
	COUNTY: SUMMIT
	STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input checked="" type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 2/11/2015	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Merit Energy Completed the acid clean out on 2/22/2015 according to the attached daily summary.

**Accepted by the
 Utah Division of
 Oil, Gas and Mining
 FOR RECORD ONLY
 July 07, 2015**

NAME (PLEASE PRINT) Katherine McClurkan	PHONE NUMBER 972 628-1660	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 6/22/2015	



Job Daily Summary- State Report

Support Line: 972-628-1700 #1

Report Date:
Report #
Well Name: ARE W 29 12

Accounting ID 7635-01	Original Spud Date	Operator MERIT ENERGY COMPANY	SAP API Number 004304330154	Lease ARE- West	Unit Name
Working Interest (%) 59.62	Original KB Elevation (ft) 7,764.00	SAP Latitude 41.0514300000	SAP Longitude -111.0739100000	Total Depth	KB Adjustment (ft) 27.00
Field Name ANSCHUTZ RANCH EAST	County SUMMIT	State/Province UTAH	Field Office ANSCHUTZ	Accounting Group Anschutz Ranch Unit	Producing Status Producing Gas

Job Category Completion/Workover	Primary Job Type Scale Removal	Job Start Date 2/9/2015	Job End Date
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Daily Operations

Report Start Date 1/23/2015	Primary Activity Run GR & BHP survey
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Operations Summary
 WTP=83#, WCP=84#. MI, RU Wire Tech slickline unit & RIH w/ 2.34" GR (tbg clear & tagged PBTD @ 12,692' SLM) POH. Made BHP survey tools, RIH making 3-min stops every 2,000', 10-min stop at EOT @ 12,160' SLM & 30-min stop at PBTD @ 12,685' SLM. POH & RD SL. SI well for 30-min, open tbg w/ 237#/283# for 30-min before opening csg w/ 77#/267#, well BOL.

Report Start Date 2/9/2015	Primary Activity Pump acid treatment
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Operations Summary
 FTP=83#, FCP=85#. Held safety meeting, RU Sanjel acid pump truck & press test lines to 3200#. SI flow to plant, pump 2000 gals 15% HCL @ 5.5 bpm w/ 90# & flush w/ 10 bbls 2% KCL @ 5.5 bpm w/ 65# (ISIP=vac/304#). Secure well @ 8:45 am for 5.5-hr soak, RD & MO Sanjel. Open csg @ 2:15 w/ 285/291# to flow & unload overnight.

Report Start Date 2/10/2015	Primary Activity Flowing
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Operations Summary
 Well flowing @ 7:00 am up the csg @ 5.1 mscfd w/ 82#. Open tbg @ 2:30 pm w/ 210/82#, start flowing well up tbg & csg @ 5.9 mscfd.

Report Start Date 2/11/2015	Primary Activity Flowing
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Operations Summary
 Well flowing @ 7:00 am up tbg & csg @ 6.0 mscfd, Final report.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	
5. LEASE DESIGNATION AND SERIAL NUMBER: FEE	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL Gas Well	7. UNIT or CA AGREEMENT NAME: ANSCHUTZ RANCH EAST
2. NAME OF OPERATOR: MERIT ENERGY COMPANY	8. WELL NAME and NUMBER: ARE W29-12
3. ADDRESS OF OPERATOR: 13727 Noel Rd Ste 500 , Dallas, TX, 75240	9. API NUMBER: 43043301540000
PHONE NUMBER: 972 628-1540 Ext	9. FIELD and POOL or WILDCAT: ANSCHUTZ RANCH EAST
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2204 FSL 0022 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 29 Township: 04.0N Range: 08.0E Meridian: S	COUNTY: SUMMIT
	STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 11/30/2015	<input checked="" type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 Merit Energy request approval to acid clean out the above referenced well according to the attached procedure and WBD. All flow back will be contained and disposed of at one the SRW SWD wells.

Approved by the
November 19, 2015
Oil, Gas and Mining

Date: _____
By: DeK Duff

NAME (PLEASE PRINT) Katherine McClurkan	PHONE NUMBER 972 628-1660	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 11/19/2015	

Merit Energy Company

Field: Anschutz Ranch East

Well Name: AREW29-12 **API #:** 43-043-301540000

State and County: Summit, Utah

Legal Location: NE-NE Sec 29 T-04N R-08E

Scope of Work: Acid Cleanout

1. MIRU Mountain States
2. Dump 2000 gallons of 15% HCl acid
3. Follow acid with 30 gallons of soap mixture and 4 bbls of water
4. Let soak
5. RDMO

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
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	COUNTY: SUMMIT
	STATE: UTAH

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<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input checked="" type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 11/19/2015	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Merit Energy acidized the aforementioned well on 11/20/2015. Please see the attached Daily Summary for details of work done.

**Accepted by the
 Utah Division of
 Oil, Gas and Mining
 FOR RECORD ONLY
 January 19, 2016**

NAME (PLEASE PRINT) Katherine McClurkan	PHONE NUMBER 972 628-1660	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 1/19/2016	



MERIT ENERGY COMPANY

Job Daily Summary- State Report

Support Line: 972-628-1700 #1

Report Date:
Report #

Well Name: ARE W 29 12

Accounting ID 7635-01	Original Spud Date	Operator MERIT ENERGY COMPANY	SAP API Number 004304330154	Lease Unassigned	Unit Name
Working Interest 0.5962	Original KB Elevation (ft) 7,764.00	SAP Latitude 41.0514300000	SAP Longitude -111.0739100000	Total Depth	KB Adjustment (ft) 27.00
Field Name ANSCHUTZ RANCH EAST	County SUMMIT	State/Province UTAH	Field Office ANSCHUTZ	Accounting Group Anschutz Ranch Unit	Producing Status Producing Gas

Job Category Completion/Workover	Primary Job Type Scale Removal	Job Start Date 11/20/2015	Job End Date
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Daily Operations

Report Start Date 11/23/2015	Primary Activity Acid job
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Operations Summary

Held safety mtg, FTP 78# / FCP 78#, (Note: SIP 248# within 30min), R/U MT States pump truck to the tbg & pressure test lines & equipment to 2000#, pump 2000gals 15% HCL @ 2.5 to 3bpm 250#, 15bbbls away pressure on tbg went to 0#, csg 253#, flush w/ 30 gals soap & 10bbbls 2% KCL, ISIP tbg 0# = vac / csg 253#, RD MT States leave well SI 5.5hrs SITP 252#, SICP 252#, open csg to sales, monitor overnight leave tbg SI for 3 days,

**ARE W29-12
API# 43-043-30154
NW-SW Sec 29 T04N-R08E
2204' FSL & 22' FWL
Anschutz Ranch East Field
Summit County, Utah**

Acid Procedure

1. Check and record flowing pressure
2. Hold safety meeting
3. MIRU Acid pump truck to tubing and pressure test lines to 2000#
4. SI flow to plant
5. Pump 2000 gallons of 15% HCL, flush with 30 gals soap and 10 bbls of 2% KCl
 - a. Record pressures and rates
6. Secure well for 5.5hr soak
7. RDMO.

CAS #'s

- 15% HCL HYDROCHLORIC ACID CAS# 7647-01-0
- MC55-5403 CORROSION INHIBITOR
 - ETHYLENE GLYCOL CAS# 107-21-1
 - DIMETHZ FORMAIHIDE CAS# 68-12-2
 - BUTOXYETHANOL CAS# 111-76-2
 - ISOPROTANOL CAS# 67-63-0
- MCPDX-6005 KCL SUBSTITUTE
 - QUATERNARY AMMONIUM CAS# 12125-02-9
 - ETHYIHEXANOL METHANOL CAS# 67-56-1

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: FEE
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2. NAME OF OPERATOR: MERIT ENERGY COMPANY		8. WELL NAME and NUMBER: ARE W29-12
3. ADDRESS OF OPERATOR: 13727 Noel Rd Ste 500 , Dallas, TX, 75240		9. API NUMBER: 43043301540000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2204 FSL 0022 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 29 Township: 04.0N Range: 08.0E Meridian: S		9. FIELD and POOL or WILDCAT: ANSCHUTZ RANCH EAST
		COUNTY: SUMMIT
		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

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<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
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	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Merit Energy would like to acid clean out on the above referenced well according to the attached procedure and Cas#'s. Flow back will be contained.

Approved by the
Feb 24, 2016
Oil, Gas and Mining

Date: _____

By: *Derek Duff*

NAME (PLEASE PRINT) Katherine McClurkan	PHONE NUMBER 972 628-1660	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 2/24/2016	

Merit Energy Company

Field: Anschutz Ranch East

Well Name: AREW29-12 **API #:** 43-043-301540000

State and County: Summit, Utah

Legal Location: NE-NE Sec 29 T-04N R-08E

Scope of Work: Acid Cleanout

ARE W 29-12 Acid Procedure

1. MIRU Cudd Energy Services
2. Pump 4,500 gal of 15% HCl mixture
3. Follow with 4 gallons of MCS-55 mixed in 20 bbls of 2% KCl water.
4. Let soak
5. RDMO

CAS numbers for:

- Salt Substitute
 - 75.57-0
- Acid
 - 67-56-1
 - 77-92-9
 - 100-41-4
 - 107-19-7
 - 1330-20-7
 - 7647-01-0

Objective:

Pump acid down well to clean up scale in tubulars.

Procedure:

1. MIRU Mtn States pump truck
2. Pump +/- 17 bbls of acid down well
3. Flush with KCl water
4. RDMO Mtn States

CAS #'s:

HCl

- 7647-01-0

Iron Control

- 77-92-9

Non-Emulsifier

- Proprietary (Non-Emulsifier) – See Attached.
- 1330-20-7
- 100-41-4

Inhibitor

- 67-56-1
- 107-19-7

LEASE & WELL NO. ARE W 29-12
 FIELD NAME Anschutz Ranch COUNTY & STATE Summit, Utah
 LOCATION Sec 29 T4N-R8E API NO. 43-0433-0154

K.B. ELEV. 7,764'
 D.F. ELEV. _____
 GROUND LEVEL 7,737'
 CORR. 27'

SURFACE CASING HOLE _____
 SIZE _____
 SIZE 13 3/8" WEIGHT 61 & 72# DEPTH 3,001'

INTERMEDIATE CASING
 SIZE 9 5/8" WEIGHT 40, 43.5 & 47#
 SIZE 9 7/8" WEIGHT 62.8# DEPTH 10,588'
 SX. CMT. _____ TOC @ _____

PRODUCTION CASING
 SIZE 7" WEIGHT 23, 26, 29 & 32#
 DEPTH 13,262'
 GRADE _____ SX. CMT. _____ TOC @ _____

Formation Tops
 Twin Creek
 Nugget
 Ankareh
 Thaynes

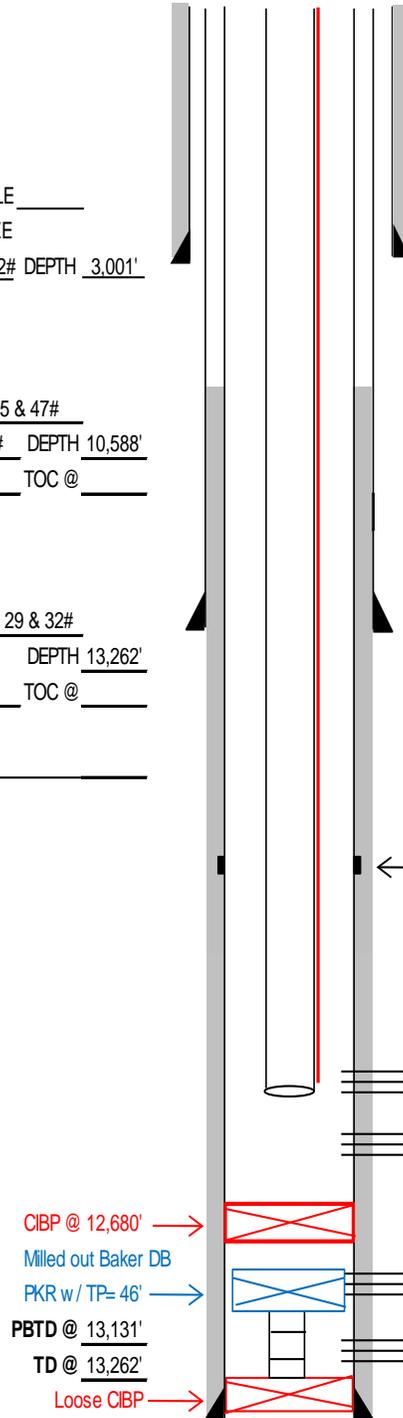
WELL HISTORY

COMPLETION DATE:
 IP = BOPD, MCFD, BWPD
 Stimulation:

Tbg hanger has 3 1/2" PH-6 connections
 3 1/2" PH-6 x 3 1/2" Vam Ace x-over below hanger
 All depths are -28' from MD to correlate w/ WD
 3/8" S.S. cap string banded w/ 2 bands per jt

TUBING

Tbg Size: 3 1/2" 10.2# Vam Ace-Chrome
 Total Jts: 391
 Jts above SN: 391
 Otis "R" SN @: 12,142' MD w/ 2.562" profile
 Injec Sub @: 12,143' MD
 EOT @: 12,147' MD w/ re-entry



PERFORATIONS:

11,892'-922', 11,944'-980'
 12,002'-54', 12,074'-80'
 12,110'-26', 12,150'-12,290'
 12,314'-50', 12,373'-410'
 12,454'-528', 12,550'-600'
 12,764'-84', 12,832'-40'
 12,846'-58', 12,918'-25'
 12,936'-44'

SAFETY DATA SHEET

1. Identification

Product identifier TNE-8868
Other means of identification None.
Recommended use Oil and Gas Non-emulsifier
Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Thatcher Company, Inc.
Address 1905 Fortune Road
Salt Lake City, UT 84104
United States
Telephone General Assistance 8-5 (801) 972-4587
E-mail Not available.
Emergency phone number Chemtrec (CCN 22106) (800) 424-9300

2. Hazard(s) identification

Physical hazards Flammable liquids Category 3
Health hazards Acute toxicity, dermal Category 4
Acute toxicity, inhalation Category 4
Serious eye damage/eye irritation Category 2A
Carcinogenicity Category 2
Reproductive toxicity Category 2
Specific target organ toxicity, single exposure Category 3 narcotic effects
Specific target organ toxicity, repeated exposure Category 1
Environmental hazards Not classified.
OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Flammable liquid and vapor. Harmful in contact with skin. Causes serious eye irritation. Harmful if inhaled. May cause drowsiness or dizziness. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure.

Precautionary statement

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

Response	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. In case of fire: Use appropriate media to extinguish.
Storage	Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.
Supplemental information	93% of the mixture consists of component(s) of unknown acute dermal toxicity. 91% of the mixture consists of component(s) of unknown acute inhalation toxicity.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
TRADE SECRET*		Proprietary*	40
Xylene		1330-20-7	5 - < 10
Ethylbenzene		100-41-4	1 - < 3
Other components below reportable levels			50 - < 60

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical advice/attention if you feel unwell. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	Rinse mouth. Get medical advice/attention if you feel unwell.
Most important symptoms/effects, acute and delayed	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Prolonged exposure may cause chronic effects.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information	Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media	Alcohol resistant foam. Water fog. Water spray, fog (flooding amounts). Dry chemicals. Carbon dioxide (CO ₂). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Flammable liquid and vapor.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions Use appropriate containment to avoid environmental contamination.

7. Handling and storage

Precautions for safe handling Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Wash contaminated clothing before reuse.

For additional information on equipment bonding and grounding, refer to the Canadian Electrical Code in Canada, (CSA C22.1), or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" or National Fire Protection Association (NFPA) 77, "Recommended Practice on Static Electricity" or National Fire Protection Association (NFPA) 70, "National Electrical Code".

Conditions for safe storage, including any incompatibilities Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Ethylbenzene (CAS 100-41-4)	PEL	435 mg/m3

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
TRADE SECRET	PEL	100 ppm
		980 mg/m3
Xylene (CAS 1330-20-7)	PEL	400 ppm
		435 mg/m3
		100 ppm

US. ACGIH Threshold Limit Values

Components	Type	Value
Ethylbenzene (CAS 100-41-4)	TWA	20 ppm
TRADE SECRET	STEL	400 ppm
	TWA	200 ppm
Xylene (CAS 1330-20-7)	STEL	150 ppm
	TWA	100 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Ethylbenzene (CAS 100-41-4)	STEL	545 mg/m3
		125 ppm
	TWA	435 mg/m3
		100 ppm
TRADE SECRET	STEL	1225 mg/m3
		500 ppm
	TWA	980 mg/m3
		400 ppm

Biological limit values**ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time
Ethylbenzene (CAS 100-41-4)	0.15 g/g	Sum of mandelic acid and phenylglyoxylic acid	Creatinine in urine	*
TRADE SECRET	40 mg/l	Acetone	Urine	*
Xylene (CAS 1330-20-7)	1.5 g/g	Methylhippuric acids	Creatinine in urine	*

* - For sampling details, please see the source document.

Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Chemical respirator with organic vapor cartridge and full facepiece.

Skin protection**Hand protection**

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

Other

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection

Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Chemical respirator with organic vapor cartridge and full facepiece.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke.

9. Physical and chemical properties

Appearance

Physical state	Liquid.
Form	Liquid.
Color	Colorless to light yellow.
Odor	Slight. Oily.
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	79.0 °F (26.1 °C)
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	100 %
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	0.80 g/cm3 estimated
Explosive properties	Not explosive.
Flammability class	Flammable IC
Oxidizing properties	Not oxidizing.
Percent volatile	49 % estimated
Specific gravity	0.94

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong acids. Acids. Strong oxidizing agents. Halogens. Isocyanates. Chlorine.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Harmful if inhaled. May cause damage to organs through prolonged or repeated exposure by inhalation. May cause drowsiness and dizziness. Headache. Nausea, vomiting.
Skin contact	Harmful in contact with skin.
Eye contact	Causes serious eye irritation.

Ingestion

Health injuries are not known or expected under normal use.

Symptoms related to the physical, chemical and toxicological characteristics

Headache. May cause drowsiness and dizziness. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Information on toxicological effects**Acute toxicity**

Harmful if inhaled. Harmful in contact with skin. Narcotic effects.

Components**Species****Test Results**

Ethylbenzene (CAS 100-41-4)

Acute**Dermal**

LD50

Rabbit

17800 mg/kg

Oral

LD50

Rat

3500 mg/kg

5.46 g/kg

TRADE SECRET

Acute**Dermal**

LD50

Rabbit

12800 mg/kg

Oral

LD50

Dog

4797 mg/kg

Mouse

3600 mg/kg

4.5 g/kg

Rabbit

6410 mg/kg

5.03 g/kg

Rat

5045 mg/kg

4.7 g/kg

Xylene (CAS 1330-20-7)

Acute**Dermal**

LD50

Rabbit

> 43 g/kg

Inhalation

LC50

Mouse

3907 mg/l, 6 Hours

Rat

6350 mg/l, 4 Hours

Oral

LD50

Mouse

1590 mg/kg

Rat

3523 - 8600 mg/kg

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation

Health injuries are not known or expected under normal use.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitization**Respiratory sensitization**

Not a respiratory sensitizer.

Skin sensitization

This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity

Suspected of causing cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

Ethylbenzene (CAS 100-41-4)

2B Possibly carcinogenic to humans.

Xylene (CAS 1330-20-7)

3 Not classifiable as to carcinogenicity to humans.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity	Components in this product have been shown to cause birth defects and reproductive disorders in laboratory animals. Suspected of damaging fertility or the unborn child.
Specific target organ toxicity - single exposure	May cause drowsiness and dizziness.
Specific target organ toxicity - repeated exposure	Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	Not an aspiration hazard.
Chronic effects	Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components	Species	Test Results
Ethylbenzene (CAS 100-41-4)		
Aquatic		
Crustacea	EC50	Water flea (Daphnia magna)
Fish	LC50	Atlantic silverside (Menidia menidia)
TRADE SECRET		
Aquatic		
Fish	LC50	Bluegill (Lepomis macrochirus)
Xylene (CAS 1330-20-7)		
Aquatic		
Fish	LC50	Rainbow trout, donaldson trout (Oncorhynchus mykiss)

* Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Ethylbenzene	3.15
TRADE SECRET	0.05
Xylene	3.12 - 3.2

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

UN number	UN1993
UN proper shipping name	Flammable liquids, n.o.s. (Isopropyl Alcohol, Xylene and Ethylbenzene)
Transport hazard class(es)	
Class	3
Subsidiary risk	-

Label(s)	3
Packing group	II
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	B1, B52, IB3, T4, TP1, TP29
Packaging exceptions	150
Packaging non bulk	203
Packaging bulk	242
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not established.

DOT



15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Ethylbenzene (CAS 100-41-4)	Listed.
TRADE SECRET (CAS Proprietary)	Listed.
Xylene (CAS 1330-20-7)	Listed.

SARA 304 Emergency release notification

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - Yes
	Delayed Hazard - Yes
	Fire Hazard - Yes
	Pressure Hazard - No
	Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
TRADE SECRET	Proprietary	40
Xylene	1330-20-7	5 - < 10
Ethylbenzene	100-41-4	1 - < 3

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Ethylbenzene (CAS 100-41-4)
Xylene (CAS 1330-20-7)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

US state regulations**US - New Jersey RTK - Substances: Listed substance**

Ethylbenzene (CAS 100-41-4)
 TRADE SECRET (CAS Proprietary)
 Xylene (CAS 1330-20-7)

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Ethylbenzene (CAS 100-41-4)
 TRADE SECRET (CAS Proprietary)
 Xylene (CAS 1330-20-7)

US. Massachusetts RTK - Substance List

Ethylbenzene (CAS 100-41-4)
 TRADE SECRET (CAS Proprietary)
 Xylene (CAS 1330-20-7)

US. New Jersey Worker and Community Right-to-Know Act

Ethylbenzene (CAS 100-41-4)
 TRADE SECRET (CAS Proprietary)
 Xylene (CAS 1330-20-7)

US. Pennsylvania RTK - Hazardous Substances

Ethylbenzene (CAS 100-41-4)
 TRADE SECRET (CAS Proprietary)
 Xylene (CAS 1330-20-7)

US. Pennsylvania Worker and Community Right-to-Know Law

Ethylbenzene (CAS 100-41-4)
 TRADE SECRET (CAS Proprietary)
 Xylene (CAS 1330-20-7)

US. Rhode Island RTK

Ethylbenzene (CAS 100-41-4)
 TRADE SECRET (CAS Proprietary)
 Xylene (CAS 1330-20-7)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Ethylbenzene (CAS 100-41-4) Listed: June 11, 2004

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 05-08-2015

Revision date 09-21-2015

Version # 02
NFPA ratings Health: 2
Flammability: 3
Instability: 0

NFPA ratings



Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Thatcher Company cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

Revision Information

Product and Company Identification: Product and Company Identification
Hazard(s) identification: Disposal
Hazard(s) identification: Storage
Hazard(s) identification: GHS Signal Words
Hazard(s) identification: GHS Symbols
Hazard(s) identification: Hazard(s) not otherwise classified (HNOC)
Fire-fighting measures: General fire hazards
Exposure controls/personal protection: PPE Symbols
Physical & Chemical Properties: Multiple Properties
Toxicological information: Reproductivity
Regulatory information: US federal regulations
Other information, including date of preparation or last revision: Disclaimer

**ARE W29-12
API# 43-043-30154
NW-SW Sec 29 T04N-R08E
2204' FSL & 22' FWL
Anschutz Ranch East Field
Summit County, Utah**

Acid Wellbore Clean Out

Well Information:

PBTD: 13,131' KB (CIBP at 12,680')

Lat/Long: 41.05138, -111.07465

Perforations:

Nugget: 11,892' to 12,944'

Casing:

13 3/8" 61 and 72# set at 3,001'

9 5/8" and 9 7/8" (40, 43.5, 47 and 62.8#), set at 10,588'

7" (23, 26, 29 and 32#) set at 13,262'

Tubing:

3.5" 10.2 VAM Ace-Chrome set at 12,147' MD w/ Re Entry

Note: Tbg hanger has a 3.5" PH6 connections

Procedure:

1. MIRU CTU
2. RIH w/ 1 1/4" CT and 1.75" Spincat wash nozzle.
3. RIH stopping every 1,000' to pump fluid and ensure nozzle is clear
 - a. Hold pressure on backside with N2 or GL gas if necessary to ensure fluid does not come around to backside.
4. At bottom pump nitrified 15% HCl per Cudds recommendation on location.
5. Wash perforations with +/- 4,000 gallons of 15% HCl
6. POOH w/ CT
7. RDMO CTU.

NOTE: If well is on Vacuum, no need to jet well in.

Shut well in after job, monitor pressure – we will open as soon as pressure appears to have stabilized.

TUBING Count is 14 Jts less than diagram.

**ARE W29-12
API# 43-043-30154
NW-SW Sec 29 T04N-R08E
2204' FSL & 22' FWL
Anschutz Ranch East Field
Summit County, Utah**

Acid Wellbore Clean Out

CAS #'s:

HCl

- 7647-01-0

Iron Control

- 77-92-9

Non-Emulsifier

- Proprietary (Non-Emulsifier)
- 1330-20-7
- 100-41-4

Inhibitor

- 67-56-1
- 107-19-7

ARE W29-12
API# 43-043-30154
NW-SW Sec 29 T04N-R08E
2204' FSL & 22' FWL
Anschutz Ranch East Field
Summit County, Utah

Acid Wellbore Clean Out

LEASE & WELL NO.	<u>ARE W 29-12</u>	COUNTY & STATE	<u>Summit, Utah</u>
FIELD NAME	<u>Anschutz Ranch</u>	API NO.	<u>43-0433-0154</u>
LOCATION	<u>Sec 29 T4N-R8E</u>		

K.B. ELEV. 7,764'
 D.F. ELEV. _____
 GROUND LEVEL 7,737'
 CORR. 27'

SURFACE CASING HOLE _____
 SIZE _____
 SIZE 13 3/8" WEIGHT 61 & 72# DEPTH 3,001'

INTERMEDIATE CASING
 SIZE 9 5/8" WEIGHT 40, 43.5 & 47#
 SIZE 9 7/8" WEIGHT 62.8# DEPTH 10,588'
 SX. CMT. _____ TOC @ _____

PRODUCTION CASING
 SIZE 7" WEIGHT 23, 26, 29 & 32#
 DEPTH 13,262'
 GRADE _____ SX. CMT. _____ TOC @ _____

Formation Tops
 Twin Creek _____
 Nugget _____
 Ankareh _____
 Thaynes _____

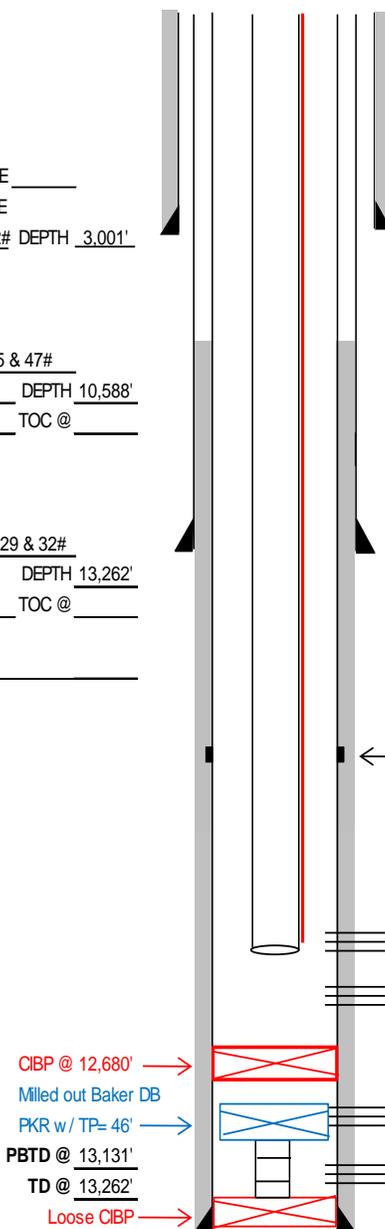
WELL HISTORY

COMPLETION DATE:
 IP= BOPD, MCFD, BWPD
 Stimulation:

Tbg hanger has 3 1/2" PH-6 connections
 3 1/2" PH-6 x 3 1/2" VamAce x-over below hanger
 All depths are -28' from MD to correlate w/ WD
 3/8" S.S. cap string banded w/ 2 bands per jt

TUBING

Tbg Size: 3 1/2" 10.2# Vam Ace-Chrome
 Total Jts: 391
 Jts above SN: 391
 Otis "R" SN @: 12,142' MD w/ 2.562" profile
 Injec Sub @: 12,143' MD
 EOT @: 12,147' MD w/ re-entry



PERFORATIONS:

11,892'-922', 11,944'-980'
 12,002'-54', 12,074'-80'
 12,110'-26', 12,150'-12,290'
 12,314'-50', 12,373'-410'
 12,454'-528', 12,550'-600'
 12,764'-84', 12,832'-40'
 12,846'-58', 12,918'-25'
 12,936'-44'

SAFETY DATA SHEET

1. Identification

Product identifier TNE-8868
Other means of identification None.
Recommended use Oil and Gas Non-emulsifier
Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Thatcher Company, Inc.
Address 1905 Fortune Road
Salt Lake City, UT 84104
United States
Telephone General Assistance 8-5 (801) 972-4587
E-mail Not available.
Emergency phone number Chemtrec (CCN 22106) (800) 424-9300

2. Hazard(s) identification

Physical hazards Flammable liquids Category 3
Health hazards Acute toxicity, dermal Category 4
Acute toxicity, inhalation Category 4
Serious eye damage/eye irritation Category 2A
Carcinogenicity Category 2
Reproductive toxicity Category 2
Specific target organ toxicity, single exposure Category 3 narcotic effects
Specific target organ toxicity, repeated exposure Category 1
Environmental hazards Not classified.
OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Flammable liquid and vapor. Harmful in contact with skin. Causes serious eye irritation. Harmful if inhaled. May cause drowsiness or dizziness. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure.

Precautionary statement

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

Response	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. In case of fire: Use appropriate media to extinguish.
Storage	Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.
Supplemental information	93% of the mixture consists of component(s) of unknown acute dermal toxicity. 91% of the mixture consists of component(s) of unknown acute inhalation toxicity.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
TRADE SECRET*		Proprietary*	40
Xylene		1330-20-7	5 - < 10
Ethylbenzene		100-41-4	1 - < 3
Other components below reportable levels			50 - < 60

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical advice/attention if you feel unwell. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	Rinse mouth. Get medical advice/attention if you feel unwell.
Most important symptoms/effects, acute and delayed	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Prolonged exposure may cause chronic effects.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information	Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media	Alcohol resistant foam. Water fog. Water spray, fog (flooding amounts). Dry chemicals. Carbon dioxide (CO ₂). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Flammable liquid and vapor.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions Use appropriate containment to avoid environmental contamination.

7. Handling and storage

Precautions for safe handling Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Wash contaminated clothing before reuse.

For additional information on equipment bonding and grounding, refer to the Canadian Electrical Code in Canada, (CSA C22.1), or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" or National Fire Protection Association (NFPA) 77, "Recommended Practice on Static Electricity" or National Fire Protection Association (NFPA) 70, "National Electrical Code".

Conditions for safe storage, including any incompatibilities Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Ethylbenzene (CAS 100-41-4)	PEL	435 mg/m3

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
TRADE SECRET	PEL	100 ppm 980 mg/m3
Xylene (CAS 1330-20-7)	PEL	400 ppm 435 mg/m3 100 ppm

US. ACGIH Threshold Limit Values

Components	Type	Value
Ethylbenzene (CAS 100-41-4)	TWA	20 ppm
TRADE SECRET	STEL	400 ppm
	TWA	200 ppm
Xylene (CAS 1330-20-7)	STEL	150 ppm
	TWA	100 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Ethylbenzene (CAS 100-41-4)	STEL	545 mg/m3 125 ppm
	TWA	435 mg/m3 100 ppm
TRADE SECRET	STEL	1225 mg/m3 500 ppm
	TWA	980 mg/m3 400 ppm

Biological limit values**ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time
Ethylbenzene (CAS 100-41-4)	0.15 g/g	Sum of mandelic acid and phenylglyoxylic acid	Creatinine in urine	*
TRADE SECRET	40 mg/l	Acetone	Urine	*
Xylene (CAS 1330-20-7)	1.5 g/g	Methylhippuric acids	Creatinine in urine	*

* - For sampling details, please see the source document.

Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Chemical respirator with organic vapor cartridge and full facepiece.

Skin protection**Hand protection**

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

Other

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection

Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Chemical respirator with organic vapor cartridge and full facepiece.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke.

9. Physical and chemical properties

Appearance

Physical state	Liquid.
Form	Liquid.
Color	Colorless to light yellow.
Odor	Slight. Oily.
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	79.0 °F (26.1 °C)
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	100 %
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	0.80 g/cm ³ estimated
Explosive properties	Not explosive.
Flammability class	Flammable IC
Oxidizing properties	Not oxidizing.
Percent volatile	49 % estimated
Specific gravity	0.94

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong acids. Acids. Strong oxidizing agents. Halogens. Isocyanates. Chlorine.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Harmful if inhaled. May cause damage to organs through prolonged or repeated exposure by inhalation. May cause drowsiness and dizziness. Headache. Nausea, vomiting.
Skin contact	Harmful in contact with skin.
Eye contact	Causes serious eye irritation.

Ingestion

Health injuries are not known or expected under normal use.

Symptoms related to the physical, chemical and toxicological characteristics

Headache. May cause drowsiness and dizziness. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Information on toxicological effects**Acute toxicity**

Harmful if inhaled. Harmful in contact with skin. Narcotic effects.

Components**Species****Test Results**

Ethylbenzene (CAS 100-41-4)

Acute**Dermal**

LD50

Rabbit

17800 mg/kg

Oral

LD50

Rat

3500 mg/kg

5.46 g/kg

TRADE SECRET

Acute**Dermal**

LD50

Rabbit

12800 mg/kg

Oral

LD50

Dog

4797 mg/kg

Mouse

3600 mg/kg

4.5 g/kg

Rabbit

6410 mg/kg

5.03 g/kg

Rat

5045 mg/kg

4.7 g/kg

Xylene (CAS 1330-20-7)

Acute**Dermal**

LD50

Rabbit

> 43 g/kg

Inhalation

LC50

Mouse

3907 mg/l, 6 Hours

Rat

6350 mg/l, 4 Hours

Oral

LD50

Mouse

1590 mg/kg

Rat

3523 - 8600 mg/kg

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation

Health injuries are not known or expected under normal use.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitization**Respiratory sensitization**

Not a respiratory sensitizer.

Skin sensitization

This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity

Suspected of causing cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

Ethylbenzene (CAS 100-41-4)

2B Possibly carcinogenic to humans.

Xylene (CAS 1330-20-7)

3 Not classifiable as to carcinogenicity to humans.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity	Components in this product have been shown to cause birth defects and reproductive disorders in laboratory animals. Suspected of damaging fertility or the unborn child.
Specific target organ toxicity - single exposure	May cause drowsiness and dizziness.
Specific target organ toxicity - repeated exposure	Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	Not an aspiration hazard.
Chronic effects	Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components	Species	Test Results
Ethylbenzene (CAS 100-41-4)		
Aquatic		
Crustacea	EC50	Water flea (Daphnia magna)
Fish	LC50	Atlantic silverside (Menidia menidia)
TRADE SECRET		
Aquatic		
Fish	LC50	Bluegill (Lepomis macrochirus)
Xylene (CAS 1330-20-7)		
Aquatic		
Fish	LC50	Rainbow trout, donaldson trout (Oncorhynchus mykiss)

* Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Ethylbenzene	3.15
TRADE SECRET	0.05
Xylene	3.12 - 3.2

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

UN number	UN1993
UN proper shipping name	Flammable liquids, n.o.s. (Isopropyl Alcohol, Xylene and Ethylbenzene)
Transport hazard class(es)	
Class	3
Subsidiary risk	-

Label(s)	3
Packing group	II
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	B1, B52, IB3, T4, TP1, TP29
Packaging exceptions	150
Packaging non bulk	203
Packaging bulk	242
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not established.

DOT



15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Ethylbenzene (CAS 100-41-4)	Listed.
TRADE SECRET (CAS Proprietary)	Listed.
Xylene (CAS 1330-20-7)	Listed.

SARA 304 Emergency release notification

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - Yes
	Delayed Hazard - Yes
	Fire Hazard - Yes
	Pressure Hazard - No
	Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
TRADE SECRET	Proprietary	40
Xylene	1330-20-7	5 - < 10
Ethylbenzene	100-41-4	1 - < 3

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Ethylbenzene (CAS 100-41-4)
Xylene (CAS 1330-20-7)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

US state regulations**US - New Jersey RTK - Substances: Listed substance**

Ethylbenzene (CAS 100-41-4)
 TRADE SECRET (CAS Proprietary)
 Xylene (CAS 1330-20-7)

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Ethylbenzene (CAS 100-41-4)
 TRADE SECRET (CAS Proprietary)
 Xylene (CAS 1330-20-7)

US. Massachusetts RTK - Substance List

Ethylbenzene (CAS 100-41-4)
 TRADE SECRET (CAS Proprietary)
 Xylene (CAS 1330-20-7)

US. New Jersey Worker and Community Right-to-Know Act

Ethylbenzene (CAS 100-41-4)
 TRADE SECRET (CAS Proprietary)
 Xylene (CAS 1330-20-7)

US. Pennsylvania RTK - Hazardous Substances

Ethylbenzene (CAS 100-41-4)
 TRADE SECRET (CAS Proprietary)
 Xylene (CAS 1330-20-7)

US. Pennsylvania Worker and Community Right-to-Know Law

Ethylbenzene (CAS 100-41-4)
 TRADE SECRET (CAS Proprietary)
 Xylene (CAS 1330-20-7)

US. Rhode Island RTK

Ethylbenzene (CAS 100-41-4)
 TRADE SECRET (CAS Proprietary)
 Xylene (CAS 1330-20-7)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Ethylbenzene (CAS 100-41-4) Listed: June 11, 2004

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 05-08-2015
Revision date 09-21-2015

Version # 02
NFPA ratings Health: 2
Flammability: 3
Instability: 0

NFPA ratings



Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Thatcher Company cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

Revision Information

Product and Company Identification: Product and Company Identification
Hazard(s) identification: Disposal
Hazard(s) identification: Storage
Hazard(s) identification: GHS Signal Words
Hazard(s) identification: GHS Symbols
Hazard(s) identification: Hazard(s) not otherwise classified (HNOC)
Fire-fighting measures: General fire hazards
Exposure controls/personal protection: PPE Symbols
Physical & Chemical Properties: Multiple Properties
Toxicological information: Reproductivity
Regulatory information: US federal regulations
Other information, including date of preparation or last revision: Disclaimer

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: FEE
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL Gas Well		7. UNIT or CA AGREEMENT NAME: ANSCHUTZ RANCH EAST
2. NAME OF OPERATOR: MERIT ENERGY COMPANY		8. WELL NAME and NUMBER: ARE W29-12
3. ADDRESS OF OPERATOR: 13727 Noel Rd Ste 500 , Dallas, TX, 75240		9. API NUMBER: 43043301540000
PHONE NUMBER: 972 628-1540 Ext		9. FIELD and POOL or WILDCAT: ANSCHUTZ RANCH EAST
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2204 FSL 0022 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 29 Township: 04.0N Range: 08.0E Meridian: S		COUNTY: SUMMIT
		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input checked="" type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 7/11/2016	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="Acid Clean Out"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Merit Energy performed the acid clean out on the above referenced well on 7/11/2016 according to the attached daily job summary.

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
July 19, 2016**

NAME (PLEASE PRINT) Katherine McClurkan	PHONE NUMBER 972 628-1660	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 7/19/2016	



Job Daily Summary- State Report

Support Line: 972-628-1700 #1

Report Date:
Report #
Well Name: ARE W 29 12

Accounting ID 7635-01	Original Spud Date	Operator MERIT ENERGY COMPANY	SAP API Number 004304330154	Lease Unassigned	Unit Name
Working Interest 0.5962	Original KB Elevation (ft) 7,764.00	SAP Latitude 41.0514300000	SAP Longitude -111.0739100000	Total Depth	KB Adjustment (ft) 27.00
Field Name ANSCHUTZ RANCH EAST	County SUMMIT	State/Province UTAH	Field Office ANSCHUTZ	Accounting Group Anschutz Ranch Unit	Producing Status Producing Gas

Job Category Completion/Workover	Primary Job Type Scale Removal	Job Start Date 7/6/2016	Job End Date
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Daily Operations

Report Start Date 7/6/2016	Primary Activity RIH SL / set plug in R nipple / MIRU
Operations Summary Held safety mtg SI tbg continue flowing up back side, R/U SL, pressure test lubricator 1000 psi, RIH GR 2.618 OD, spangs, oil Jar, wt bar, tag Otis "R" SN @ 12134' SLM, POH, RIH nipple brush 2.562 OD 12360' SLM, clean up SN, POH, RIH 2.562 OD RX Plug w/ setting tool, set plug in SN @ 12134' SLM, POH, blew down tbg to flat tank plug holding, L/D tools, R/D SL. MIRU, spot support equipment, unable to R/U rig due to high winds, SDON.	
Report Start Date 7/7/2016	Primary Activity R/U N/D well head / N/U BOPs / Pull tbg
Operations Summary Held safety mtg, SITP 20 psi, FCP 72 psi, FR 4.2 mscf, R/U derrick, pumped on cap sting unable to kill cap string, seeing same pressure on cap string as back side blowing gas, had to bull head 18 bbls 2% KCL down back side cap sting on vacuum open csg to flat tank, N/D well head, N/U BOPs, 20 min later well unloaded 16 bbls to flat tank, turn back to sales 3.6 mscf, R/U floor, M/U landing jt 3 1/2" 12.95# P-110 PH6,10' & 4' w/ X over & TIW, Bull head 30 bbls 2% KCL down back side, P/U on hanger 145K, TOH L/D 14 jts 3 1/2" 10.2# New Vam Chrome tbg, w/ 3/8" SS cap string, (Note: cap string nipple at hanger failed replaced, cap string looked good reconnect to hanger) P/U Landing jt land hanger EOT 11714', open back side to flat tank unload 5 bbls open well to sales FCP 72 psi 1.0 mscf, R/D Floor, N/D BOPs, open well back to flat tank try to unload, N/U well head and piping. SI well overnight to build up pressure open in am, SDON.	
Report Start Date 7/8/2016	Primary Activity Pull plug / RDMO
Operations Summary Held safety mtg, SICP 245 psi, open well to sales, R/U SL RIH equalizer tool, spang bar, oil Jar, wt bar, tag up on plug @ 11702' SLM, equalize well 77/77 psi, POH, RIH Pulling tool spang bar, oil Jar, wt bar, pull RX plug, POH L/D tools w/ Plug, R/D SL, R/D support equipment, Rig, tbg SI, SITP 185 psi, flowing csg 72 psi, FR 3.2mscf. SDFDO	
Report Start Date 7/11/2016	Primary Activity Pump Acid
Operations Summary Held safety mtg, SITP 212 psi, FCP 72 psi, R/U hard lines, pressure test 1500 psi, pump 2 bbls 2% KCL , 18 bbls 20 % HCL acid flush 5 bbls 2 % KCL tbg on vacuum, csg 233 psi, R/D hard lines and pump equipment, wait 5 hrs evaluate, SITP 250psi, SICP 250psi open csg to sales current FR 3.2 mscf. continue to monitor.	