UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS WELL LOG _____ ELECTRIC LOGS ✓ FILE X WATER SANDS _____ LOCATION INSPECTED _____ SUB. REPORT abd _____

DATE FILED 9-10-84

LAND: FEE & PATENTED X STATE LEASE NO. _____ PUBLIC LEASE NO. _____ INDIAN _____

DRILLING APPROVED 9-11-84 - OIL

SPUDDED IN 11-15-84

COMPLETED _____ PUT TO PRODUCING _____

INITIAL PRODUCTION _____

GRAVITY A.P.I. _____

GOR _____

PRODUCING ZONES _____

TOTAL DEPTH _____

WELL ELEVATION _____

DATE ABANDONED _____

FIELD ~~UNDESIGNATED~~ Anschutz Ranch East

UNIT _____

COUNTY SUMMIT

WELL NO. ANSCHUTZ RANCH EAST W~~10-02~~ 2-10 API #43-043-30265

LOCATION 1953' FSL FT. FROM (N) (S) LINE 1470' FEL FT. FROM (E) (W) LINE NWSE 1/4 — 1/4 SEC. 2

TWP	RGE	SEC	OPERATOR	TWP	RGE	SEC	OPERATOR
3N	7E	2	AMOCO ~~PRODUCTION CORP.~~				

Form OGC-1a

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

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

5. Lease Designation and Serial No.: Fee

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

6. If Indian, Allottee or Tribe Name:

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

7. Unit Agreement Name: Anschutz Ranch East

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

8. Farm or Lease Name:

2. Name of Operator: The Anschutz Corporation

9. Well No.: non-qualifying W10-02

3. Address of Operator: Suite 2400, 555 - 17th Street, Denver, CO 80202

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

4. Location of Well (Report location clearly and in accordance with any State requirements.*)
At surface: 1470' FEL, 1953' FSL Section2 NW SE
At proposed prod. zone:

11. Sec., T., R., M., or Blk. and Survey or Area: Sec. 2 - T3N - R7E

14. Distance in miles and direction from nearest town or post office*: Approximately 23 miles SW of Evanston, Wyoming

12. County or Parrish: Summit 13. State: UT

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any): 1470 FEL

16. No. of acres in lease: 605.97

17. No. of acres assigned to this well: 144.76

18. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft.: None

19. Proposed depth: 15,500 Wasatch

20. Rotary or cable tools: Rotary

21. Elevations (Show whether DF, RT, GR, etc.): 8703 original ground

22. Approx. date work will start*: Within 30 days of approval

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement

RECEIVED
SEP 10 1984
DIVISION OF OIL GAS & MINING

See attached 8-point drilling plan.

Survey Plat attached.

This well will be drilled under The Anschutz Corporation's Statewide Bond, Federal Insurance Company No. 80840730.

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 9/11/84
BY: John R. Baza

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

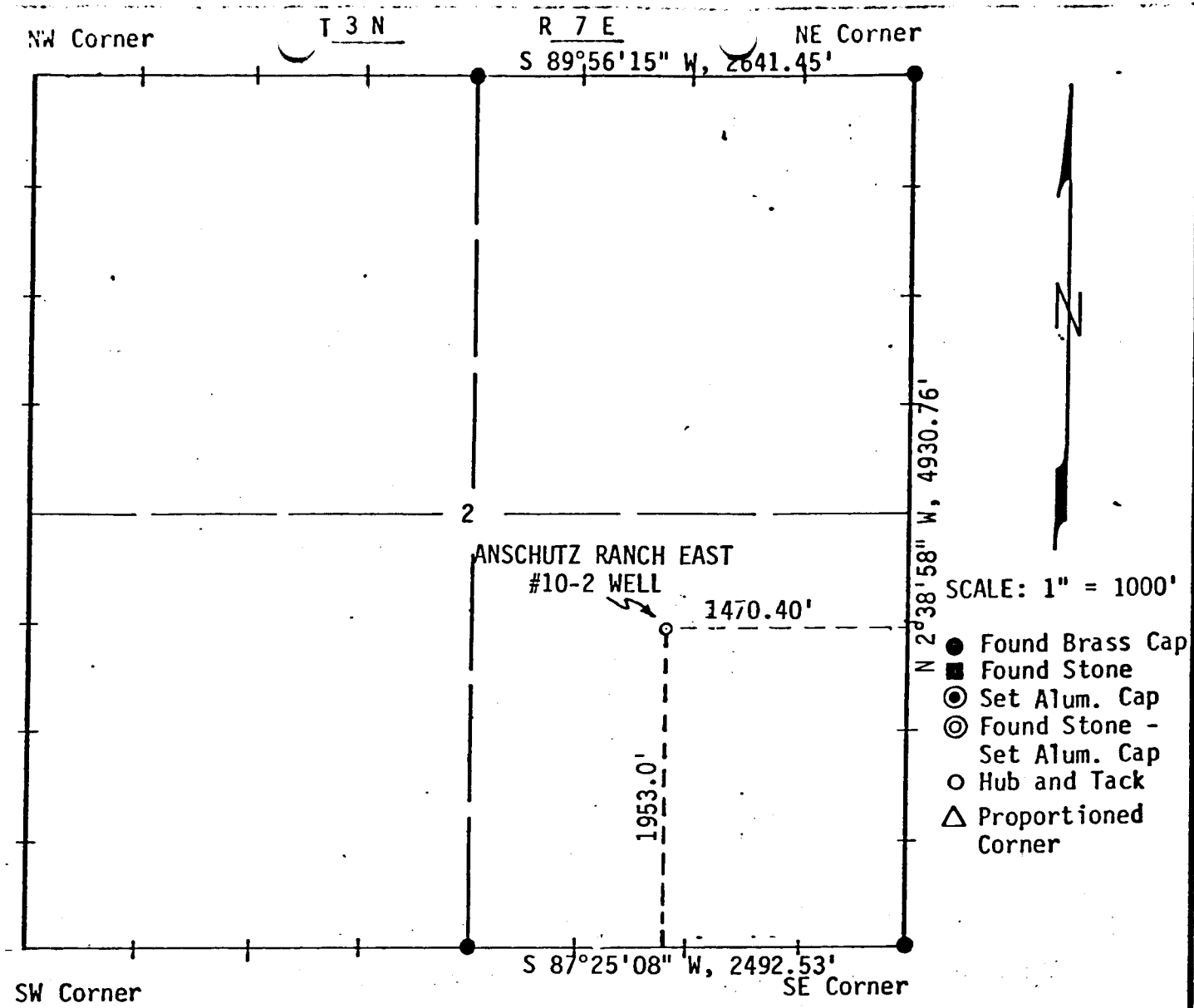
24.
Signed: W. Randall Miller Title: Operations Coordinator Date: Sept. 7, 1984
W. Randall Miller

(This space for Federal or State office use)

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

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

*See Instructions On Reverse Side



I, John A. Proffit of Evanston, Wyoming certify that in accordance with a request from Bill Miller of Denver, Colorado for The Anschutz Corporation I made a survey on the 27th day of August, 19 84 for Location and Elevation of the Anschutz Ranch East #10-2 Well as shown on the above map, the wellsite is in the SE¼ of Section 2, Township 3N, Range 7E of the Salt Lake Base & Meridian, Summit County, State of Utah, Elevation is 8703.14 Feet Top of Hub Datum N.G.V.D. Based on Three Dimensional Control Network Tied to U.S.G.S. & U.S.C.&G.S. Benchmarks

Reference point

Reference point

Reference point

Reference point

JOHN A. PROFFIT Registered 2860 Land Surveyor STATE OF UTAH

REVISED: 8/28/84 (Distances & Elev.) J.G. 8/28/84

BOOK: 69

DATE: 8/16/84

JOB NO.: 84-19-5

John A. Proffit 8/28/84

JOHN A. PROFFIT, UTAH REG. NO. 2860

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

EIGHT POINT DRILLING PLAN
ANSCHUTZ RANCH EAST W 10-2

1. GEOLOGIC MARKERS ESTIMATED TOPS:

Formation	Depth
Cretaceous Gannet or Bear River	sfc
Preuss	11,600'
Preuss-salt	12,650'
Twin Creek	12,800'
Nugget	14,300'
G/W	15,250'
Total Depth	15,500'

2. WATER, OIL AND GAS ZONES (est. top):

Twin Creek	12,800'	Oil
Nugget	14,300'	Oil

If any zones produce water, they will be adequately protected and reported.

All potentially productive hydrocarbon zones will be cemented off.

3. PRESSURE CONTROL EQUIPMENT:

Type: Double Gate Hydraulic with Annular Preventer on Top

Pressure Rating: 5000 psi

Size: 13 5/8"

Testing Procedure: Equipment will be pressure tested upon installation to 70% casing yield strength.

Testing Frequency: Operational checks to be made daily and recorded on tour sheet.

4. PROPOSED CASING STRING (ALL NEW):

Depth	Size	Grade	Weight	Joint	Thread	Cement
0-4000'	13 3/8"	S-95	60#	LT & C	8 Round	To Sfc
0-13,200'	9 5/8"	S-95	53.5#	LT & C	8 Round	600 sx ±
To TD	7"	S-95	32#	LT & C	8 Round	to be determined

Design Criteria: Tension (SF_T) = 1.8
Collapse (SF_C) = 1.25
Burst (SF_B) = 1.0

5. EVALUATION PROGRAM:

Type Log	From	To
BHC Sonic	Surface	T.D.
DLL	BSC	Top Salt
DIL	BIC	T.D.
CNL/FDC	BIC	T.D.
Dipmeter	BSC	T.D.

Cores

None anticipated.

Drillstem Tests

As needed.

Stimulation

Stimulation and/or frac. treatment procedures cannot be determined at this time. Prior to any treatment not considered standard or normal for the industry, the Utah Division of Oil, Gas & Mining will be notified by "Sundry Notice".

The logging program may be changed at the discretion of the well site geologist.

6. DRILLING FLUIDS:

Interval	Type	Weight	Viscosity	Water Loss
0-4000'	GEL Water	8.4-8.8	30-40	NC
5000'-12,000'	KCl/Salt	8.9-9.2	35-45	10-15
12,000'-13,200'	Salt Mud	10.4+	35-50	6-10
13,200'-TD	LSND	8.5+	30-40	10-15

Sufficient mud inventory will be maintained on location during drilling to handle any adverse conditions that may arise.

7. AUXILIARY EQUIPMENT:

A. A Kelly cock will be kept in the string at all times.

B. Drilling fluids will be monitored visually, by flow sensor device and by pit level indicator.

C. A stabbing valve will be kept on the derrick floor to be stabbed into the drill pipe whenever the kelly is not on the string.

D. No float will be used.

8. ESTIMATED PRESSURES AND/OR ABNORMAL CONDITIONS:

The estimated bottom-hole pressure for this well is 6665 psi. No zones of abnormal pressure, temperature or H_2S are anticipated during drilling of this well.

OPERATOR The Anschutz Corp. DATE 9/6/84

WELL NAME Anschutz Ranch East W 10-a

SEC NWSE 2 T 3N R 7E COUNTY Summit

43-043-30265	Fee
API NUMBER	TYPE OF LEASE

POSTING CHECK OFF:

[ ] INDEX	[ ] HL	[ ]
[ ] NID	[ ] PI	[ ]
[ ] MAP	[ ]	[ ]

PROCESSING COMMENTS:

Unit well

Need water permit

APPROVAL LETTER:

SPACING: [✓] A-3 Anschutz Ranch East UNIT [ ] c-3-a CAUSE NO. & DATE

[ ] c-3-b [ ] c-3-c

SPECIAL LANGUAGE:

1- Water

- [x] RECONCILE WELL NAME AND LOCATION ON APD AGAINST SAME DATA ON PLAT MAP.
- [x] AUTHENTICATE LEASE AND OPERATOR INFORMATION
- [x] VERIFY ADEQUATE AND PROPER BONDING
- [x] AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC.
- [ ] APPLY SPACING CONSIDERATION
  - [ ] ORDER _____
  - [x] UNIT _____
  - [ ] c-3-b
  - [ ] c-3-c
- [x] CHECK DISTANCE TO NEAREST WELL.
- [ ] CHECK OUTSTANDING OR OVERDUE REPORTS FOR OPERATOR'S OTHER WELLS.
- [x] IF POTASH DESIGNATED AREA, SPECIAL LANGUAGE ON APPROVAL LETTER
- [x] IF IN OIL SHALE DESIGNATED AREA, SPECIAL APPROVAL LANGUAGE.

STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dianne R. Nielson, Ph.D., Division Director

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

September 11, 1984

The Anschutz Corporation
555 - 17th Street, Suite 2400
Denver, Colorado 80202

Gentlemen:

RE: Well No. Anschutz Ranch East W10-02 - NWSE Sec. 2, T. 3N, R. 7E
1953' FSL, 1470' FEL - Summit County

Approval to drill the above referenced oil well is hereby granted in accordance with Section 40-6-18, Utah Code Annotated, as amended 1983; and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure, subject to the following stipulations:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water.

In addition, the following actions are necessary to fully comply with this approval:

1. Spudding notification to the Division within 24 hours after drilling operations commence.

2. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.

3. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 533-5771, (Home) 298-7695 or R. J. Firth, Associate Director, (Home) 571-6068.

4. Compliance with the requirements and regulations of Rule C-27, Associated Gas Flaring, General Rules and Regulations, Oil and Gas Conservation.

5. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-043-30265.

Sincerely,

R. J. Firth
Associate Director, Oil & Gas

as
Enclosures
cc: Branch of Fluid Minerals

w/ok

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

API #43-043-30265

NAME OF COMPANY: ANSCHUTZ

WELL NAME: ANSCHUTZ RANCH EAST W 2-10

SECTION NW SE 2 TOWNSHIP 3N RANGE 7E COUNTY Uintah

DRILLING CONTRACTOR

RIG #

SPUDDED: DATE 11-15-84

TIME 11:00 PM

HOW Rotary

DRILLING WILL COMMENCE

REPORTED BY Randy Miller

TELEPHONE # 303-298-1000

DATE 11-15-84 SIGNED AS

RECEIVED

SEP 26 1984

DIVISION OF OIL
GAS & MINING

THE ANSCHUTZ CORPORATION

2400 ANACONDA TOWER
555 SEVENTEENTH STREET
DENVER, COLORADO 80202
TELEPHONE 303-298-1000
TWX 910-931-2620

September 20, 1984

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

Re: Anschutz Ranch Well - API #43-043-30265

Dear Ms. Sollis:

Enclosed please find a Sundry Notice form and surveyors plat for the above-referenced well. This well was permitted with the wrong number designation. The correct well name should read: (non-qualifying) W2-10.

Please excuse any problems or inconvenience this may cause.

Sincerely,

W. Randall Miller
Operations Coordinator

WRM:me
Enclosure

Form OGC-1b

SUBMIT IN TRIPLICATE*
(O[illegible] instructions on
[illegible]verse side)

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. LEASE DESIGNATION AND SERIAL NO.: Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

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

7. UNIT AGREEMENT NAME: Anschutz Ranch East

2. NAME OF OPERATOR: The Anschutz Corporation

8. FARM OR LEASE NAME:

3. ADDRESS OF OPERATOR: Suite 2400, 555-17th Street

9. WELL NO.: (non-qualifying) W2-10

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1470' FEL, 1953' FSL, Section 2

10. FIELD AND POOL, OR WILDCAT: Undesignated

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 2 - T3N - R7E

14. PERMIT NO.: 43-043-30265

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 8703 Original Ground

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	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other) Change well designation			[X]
(Other)			[ ]	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

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

This well was permitted as the W10-02. The correct designation is the W2-10. Attached is a corrected surveyor's plat.

RECEIVED
SEP 26 1984
DIVISION OF OIL
GAS & MINING

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

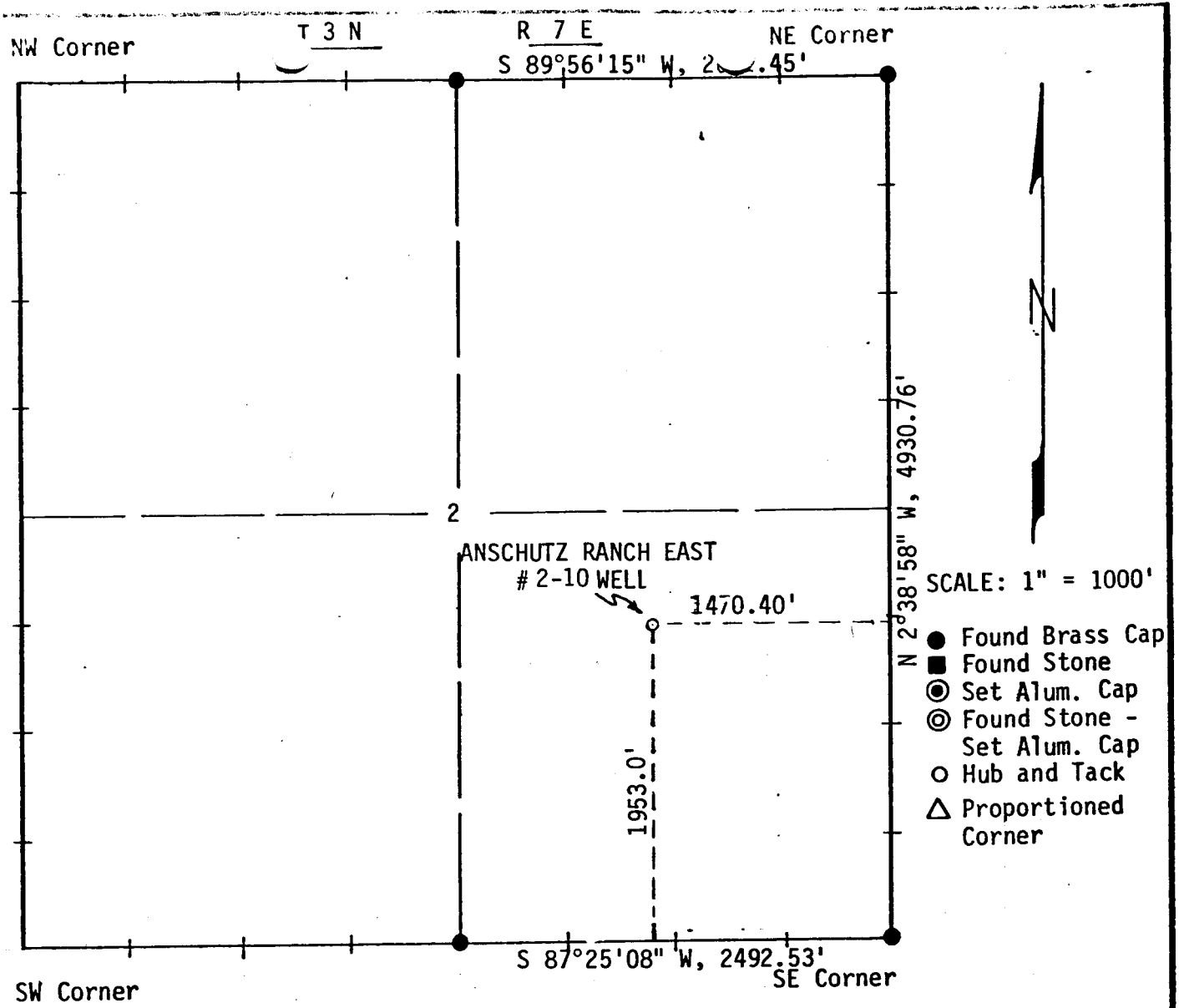
SIGNED W. Randall Miller — TITLE Operations Coordinator — DATE Sept.20,1984

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side



I, John A. Proffit of Evanston, Wyoming certify that in accordance with a request from Bill Miller of Denver, Colorado for The Anschutz Corporation I made a survey on the 27th day of August, 19 84 for Location and Elevation of the Anschutz Ranch East #2-10 Well as shown on the above map, the wellsite is in the SE¼ of Section 2, Township 3N, Range 7E of the Salt Lake Base & Meridian, Summit County, State of Utah, Elevation is 8703.14 Feet Top of Hub Datum N.G.V.D. Based on Three Dimensional Control Network Tied to U.S.G.S. & U.S.C.&G.S. Benchmarks

Reference point

Reference point

Reference point

Reference point

REVISED 9/14/84: Name Changed
REVISED: 8/28/84 (Distances & Elev.) JG. 8/28/84

BOOK: 69
DATE: 8/16/84
JOB NO.: 84-19-5

John A. Proffit 9/14/84
JOHN A. PROFFIT, UTAH REG. NO. 2860

JOHN A. PROFFIT Registered 2860 Land Surveyor STATE OF UTAH

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

THE ANSCHUTZ CORPORATION

2400 ANACONDA TOWER
555 SEVENTEENTH STREET
DENVER, COLORADO 80202
TELEPHONE 303-298-1000
TWX 910-931-2620

RECEIVED
JAN 11 1985
DIVISION OF
OIL, GAS & MINING

January 7, 1985

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

Re: Monthly Report of Drilling Progress
(Non-qualifying) W2-10 Well
Section 10-T3N-R7E
Summit County

Gentlemen:

Attached to this letter, in triplicate, is a Sundry Notice Form as a monthly report of drilling activity for the above-referenced well.

Apparently, the report for the operations in November was not sent to the Division. This report includes this with December's report.

Please contact me if there are any questions.

Sincerely,

W. Randall Miller
Operations Coordinator

WRM:me
Attachments

Form OGC-1b

SUBM N TRIPLICATE*
(Ot nstructions on reverse side)

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

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

2. NAME OF OPERATOR: The Anschutz Corporation

3. ADDRESS OF OPERATOR: Suite 2400, 555-17th St., Denver, CO 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1470' FEL, 1953' FSL, Section 2

5. LEASE DESIGNATION AND SERIAL NO.: Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: Anschutz Ranch East

8. FARM OR LEASE NAME:

9. WELL NO.: non-qualifying) W2-10

10. FIELD AND POOL, OR WILDCAT: Undesignated

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 2-73N-R7E

14. PERMIT NO.: 43-043-30265

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 8703 original ground

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		PULL OR ALTER CASING		WATER SHUT-OFF		REPAIRING WELL	
FRACTURE TREAT		MULTIPLE COMPLETE		FRACTURE TREATMENT		ALTERING CASING	
SHOOT OR ACIDIZE		ABANDON*		SHOOTING OR ACIDIZING		ABANDONMENT*	
REPAIR WELL		CHANGE PLANS		(Other) Monthly Report (drilling)	X		
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

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

11/15/84: Spud 2300 hours (prior verbal report)
11/25/84: Drilling ahead @ 898'
12/04/84: Drilled to 1200', ran 7 joints 20" casing, cemented with 200 sacks Class "G".
12/19/84: Drilled ahead @ 2122'.
12/28/84: Drilling ahead @ 2723'.

RECEIVED
JAN 11 1985
DIVISION OF
OIL, GAS & MINING

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

SIGNED W. Randall Miller TITLE Operations Coordinator DATE Jan. 3, 1985

W. Randall Miller

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

THE ANSCHUTZ CORPORATION

2400 ANACONDA TOWER
555 SEVENTEENTH STREET
DENVER, COLORADO 80202
TELEPHONE 303-298-1000
TWX 910-931-2620

RECEIVED

FEB 08 1985

DIVISION OF OIL
GAS & MINING

February 5, 1985

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

Re: Monthly Report of Drilling Progress
(Non-qualifying) W2-10 Well
Section 10 - T3N - R7E
Summit County

Gentlemen:

Attached to this letter, in triplicate, is a Sundry Notice Form as a monthly report of drilling activity for the above-referenced well.

Please contact me if there are any questions.

Sincerely,

W. Randall Miller
Operations Coordinator

WRM:me
Attachments

Form OGC-1b

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

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

RECEIVED
FEB 08 1985
DIVISION OF OIL GAS & MINING

SUNDRY NOTICES AND REPORTS ON WELLS

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

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

2. NAME OF OPERATOR: The Anschutz Corporation

3. ADDRESS OF OPERATOR: 555-17th Street, Suite 2400, Denver, CO 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1470' FEL, 1953' FSL, Section 2

5. LEASE DESIGNATION AND SERIAL NO.: Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: Anschutz Ranch East

8. FARM OR LEASE NAME:

9. WELL NO.: (non-qualifying) W 2-10

10. FIELD AND POOL, OR WILDCAT: Undesignated

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 2 - T3N-R7E

14. PERMIT NO.: 43-043-30265

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 8703 Original Ground

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	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other) monthly report (drilling)			[xx]
(Other)			[ ]	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

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

1/1/85: Drilling ahead @ 3160'.
1/9/85: Drilling ahead @ 4087'.
1/18/85: Drilling ahead @ 5321'.
1/31/85: Drilled to 7000', reaming.

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

SIGNED W. Randall Miller TITLE Operations Coordinator DATE 2/5/85

W. Randall Miller

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

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

SUBMIT IN TRIPLICATE (Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

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

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

2. NAME OF OPERATOR: The Anschutz Corporation

3. ADDRESS OF OPERATOR: 555-17th Street, Suite 2400, Denver, CO 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1470' FEL, 1953' FSL, Section 2

5. LEASE DESIGNATION AND SERIAL NO.: Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: Anschutz Ranch East

8. FARM OR LEASE NAME:

9. WELL NO.: (non-qualifying) W 2-10

10. FIELD AND POOL, OR WILDCAT: Undesignated

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 2 - T3N - R7E

14. PERMIT NO.: 43-043-30265

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 8703 Original Ground

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	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other) Monthly report (drilling)			[x]
(Other)			[ ]	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

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

2/01/85: Open 12¼" hole to 17½" from 2672-2766'.
2/05/85: Pump 100 sx of 50/50 calseal plug @ 3650', spot second 100 sx plug @ 3556'.
2/14/85: Milling junk 3998'.
2/28/85: Open hole to 6703'.

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

SIGNED W. Randall Miller — W. Randall Miller TITLE Operations Coordinator DATE 3/7/85

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

THE ANSCHUTZ CORPORATION

2400 ANACONDA TOWER
555 SEVENTEENTH STREET
DENVER, COLORADO 80202
TELEPHONE 303-298-1000
TWX 910-931-2620

RECEIVED
MAR 1 1 1985
DIVISION OF OIL
GAS & MINING

March 7, 1985

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

Re: Monthly Report of Drilling Progress
(Non-qualifying) W2-10 Well
Section 10 - T3N - R7E
Summit County

Gentlemen:

Attached is, in triplicate, a Sundry Notice Form as a monthly report of drilling activity for the above referenced well for February, 1985.

Please contact me if there are any questions.

Sincerely,

W. Randall Miller

W. Randall Miller
Operations Coordinator

WRM:me
Attachments

DOUBLE "D" ENTERPRISES, INC.

P.O. Box 560
Shoshoni, Wyoming 82649
307-876-2308

DELIVERY TICKET

№ 3059

Operator Anschutz Contractor Bomac Rig No. 90

Ordered By Richard Dexter Lease Anschutz Ranch Well No. 2-10

Section 2 Township 3 N Range 7 E

Items Tested:

	Low Test	Time Held	High Test	Time Held	Comments
Top Pipe Rams			3000	15 min	OK
Bottom Pipe Rams			3000	15 min	OK
Blind Rams			3000	15 min	OK
Annualar B.O.P.			1500	15 min	OK
Choke Manifold			3000	15 min	OK
Choke Line			3000	15 min	OK
Kill Line					
Super Choke					
Upper Kelly			3000	15 min	OK
Lower Kelly					
Floor Valve			3000	15 min	
Dart Valve					

Closing Unit Psi 2900 Closing Time of Rams 5 sec Closing Time of Hydril 19 sec

Closed Casing Head Valve yes Set Wear Sleeve yes

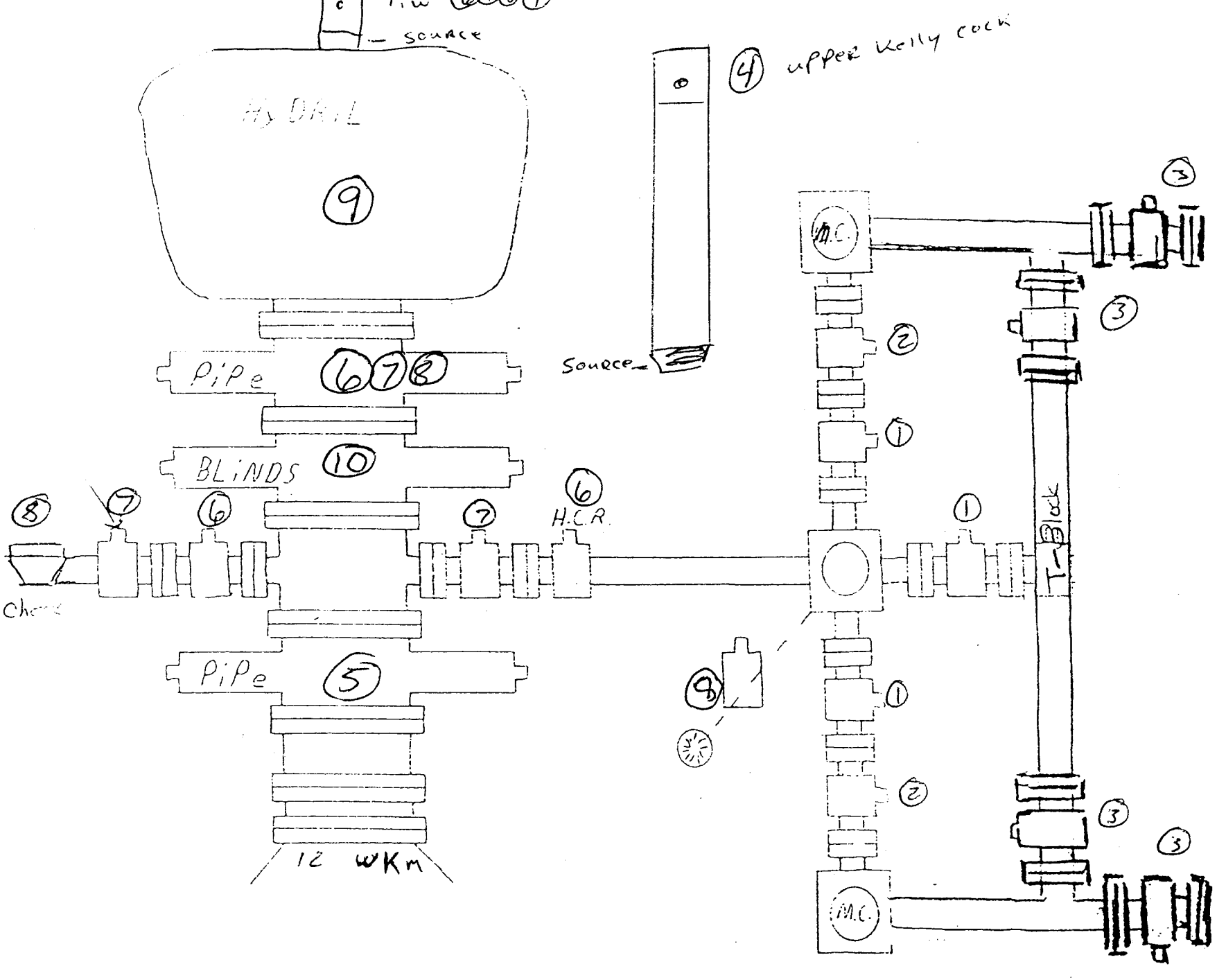
Comments Wear Ring Puller on location 3 J slot

COMPANY	LEASE AND WELL NAME #	DATE OF TEST	RIG # AND NAME
Anschutz	Anschutz Ranch East 2-10	3-4-85	Bomac 90

TEST#	TIME	
	1:15-	Arive on Location and Rig up To Choke manifold
1	1:56-209pm	1st set value on choke manifold 3000 psi 15 min OK Switch values
2	2:15-2:20	2nd set values choke manifold 3000 Hose Leaked
2	2:20-2:35	3000 psi 15 min OK Switch Values
3	2:42-2:57	3rd set values 3000 psi 15 min OK
	3:00-4:35	1st manual Next to Stack on Choke Side would not Turn, pulled it apart Had to get New one put Bonnet Back on to try to Test Stack while waiting For New one Pickup Kelly
4	443-458	upper Kelly cock 3000 psi 15 min OK
	5:00-5:30	Set Kelly Back and Filled Stack with water
5	545-600	Lower pipe Rams Had to work Rams 3000 psi 15 min OK
	600-840	tryed to shut upper pipes wouldn't Shut Kwik cupler Broke Change it out PRESSURED up on Hydril Bonnet Leak on 1 manual next to stack Leaked New one showed up Pulled old one off put New one on Filled Stack with water shut upper pipes
6	8:44 8:59	upper pipe - tiw - 1 kill value - HCR 3000 psi 15 min OK
7	904-919	upper pipes - tiw - 2 kill value - 1 choke manual 3000 psi 15 min OK

COMPANY	LEASE AND WELL NAME #	DATE OF TEST	RIG # AND NAME
Anschutz	Anschutz Ranch 2-10	3-4-85	Bomac 90

EST#	TIME	
8		upper pipes - tiw - check valve - upright on choke manifold
	926-941	3000 psi 15 min ok
9		Hydril
	945 1000	1500 psi 15 min ok
		pull Joint switch sources
10	1030-1045	Blinds
		3000 psi 15 min ok
		Ran Joint after waitin 1 hr For Crew to get Flow nipple up on Hydril Pulled off plug screwed on Retreever Set wear Ring Had to wait to get Scaffolding up Then pick up mouse Hole To Break Down Joint and Sub and Tiw
	2:00 Am	Spooled up and make out ticket



source
HyDRIL
9
4 upper kelly cock
Source
PiPe
6 7 8
BLiNDS
10
8
7
6
7
6
H.C.R.
Choke
PiPe
5
12 WKm
M.C.
3
3
2
1
1
T-Block
9
1
2
3
3
M.C.

MIDNIGHT
NOON
6 AM
6 PM
DOUBLE D
ENTERPRISES
POUNDS PER SQUARE INCH
GC GC-15216

Utah

DOUBLE "D" ENTERPRISES

RECEIVED
MAR 13 1985
DIVISION OF OIL GAS & MINING

B.O.P. Test Report

B.O.P. TEST PERFORMED ON (DATE) 3-4-85

OIL CO.: Anschutz

WELL NAME & NUMBER Anshcutz Ranch 2-10 ✓

SECTION 2

TOWNSHIP 3N

RANGE 7E

COUNTY Summit

DRILLING CONTRACTOR Bomac 90

INVOICES BILLED FROM: DOUBLE "D" ENTERPRISES, INC.
213 Pine Street · Box 560
Shoshoni, Wyoming 82649
Phone: (307) 876-2308 or (307) 876-2234

TESTED BY: DOUBLE "D" ENTERPRISES, INC.
712 Morse Lee Street
Evanston, Wyoming 82930
Phone: (307) 789-9213 or (307) 789-9214

OIL CO. SITE REPRESENTATIVE Richard Dockter

RIG TOOL PUSHER

TESTED OUT OF Evanston, Wyoming

NOTIFIED PRIOR TO TEST:

COPIES OF THIS TEST REPORT SENT COPIES TO: Site Representative
Utah Oil & Gas
B.L.M.

ORIGINAL CHART & TEST REPORT ON FILE AT: Evanston OFFICE

Form OGCC-1 be

STATE OF UTAH

OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. LEASE DESIGNATION AND SERIAL NO.: Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

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

7. UNIT AGREEMENT NAME: Anschutz Ranch East

2. NAME OF OPERATOR: The Anschutz Corporation

8. FARM OR LEASE NAME:

3. ADDRESS OF OPERATOR: 555-17th Street, Suite 2400, Denver, CO 80202

9. WELL NO.: (non-qualifying) W 2-10

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1470' FEL, 1953' FSL, Section 2

10. FIELD AND POOL, OR WILDCAT: Undesignated

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 2-T3N - R7E

14. PERMIT NO.: 43-043-30265

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 8703 Original Ground

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:

TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]
(Other)			[ ]

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
(Other) Monthly Report (drilling)			[X]

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

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

3/03/85: Run 163 joints 13 3/8" casing to 6393', cement with 2100 sx Howco lite and 600 sx Class "H"
3/11/85: Drilling ahead @ 7237'
3/19/85: Drilling ahead @ 8103'
3/31/85: Srilling ahead @ 9106'

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

SIGNED W. Randall Miller TITLE Operations Coordinator DATE 4/04/85

W. Randall Miller

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

THE ANSCHUTZ CORPORATION

2400 ANACONDA TOWER
555 SEVENTEENTH STREET
DENVER, COLORADO 80202
TELEPHONE 303-298-1000
TWX 910-931-2620

RECEIVED

APR 1 0 1985

DIVISION OF OI
GAS & MINING

April 4, 1985

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

RE: Monthly Report of Drilling Progress
(Non-qualifying) W2-10 Well
Section 10 - T3N - R7E
Summit County

Gentlemen:

Attached is, in triplicate, a Sundry Notice Form as a monthly report of drilling activity for the above referenced well for March, 1985.

Please contact me if there are any questions.

Sincerely,

W. Randall Miller

W. Randall Miller
Operations Coordinator

WRM:jg
enc.

THE ANSCHUTZ CORPORATION

2400 ANACONDA TOWER
555 SEVENTEENTH STREET
DENVER, COLORADO 80202
TELEPHONE 303-298-1000
TWX 910-931-2620

RECEIVED
MAY 10 1985
DIVISION OF OIL
GAS & MINING

May 6, 1985

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

RE: Monthly Report of Drilling Progress
(Non-qualifying) W2-10 Well
Section 10 - T3N- R7E
Summit County

Gentlemen:

Attached is, in triplicate, a Sundry Notice Form as a monthly report of drilling activity for the above referenced well for April, 1985.

Please contact me if there are any questions.

Sincerely,

W. Randall Miller

W. Randall Miller
Operations Coordinator

enc

Form OGCC-1 be

STATE OF UTAH

OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

RECEIVED

MAY 10 1985

DIVISION OF OIL GAS & MINING

SUNDRY NOTICES AND REPORTS ON WELLS

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

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

2. NAME OF OPERATOR: The Anschutz Corporation

3. ADDRESS OF OPERATOR: Suite 2400, 555-17th Street, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1470'FEL, 1953'FSL, Section 2

5. LEASE DESIGNATION AND SERIAL NO.: Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: Anschutz Ranch East

8. FARM OR LEASE NAME:

9. WELL NO.: (non-qualifying) W 2-10

10. FIELD AND POOL, OR WILDCAT: Undesignated

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 2-T3N-R7E

12. COUNTY OR PARISH: Summit

13. STATE: Utah

14. PERMIT NO.: 43-043-30265

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 8703 Original Ground

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF		PULL OR ALTER CASING		WATER SHUT-OFF		REPAIRING WELL	
FRACTURE TREAT		MULTIPLE COMPLETE		FRACTURE TREATMENT		ALTERING CASING	
SHOOT OR ACIDIZE		ABANDON*		SHOOTING OR ACIDIZING		ABANDONMENT*	
REPAIR WELL		CHANGE PLANS		(Other) Monthly Report (Drilling)			XX
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

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

4/06/85: Drilling ahead @ 9505'
4/14/85: Drilling ahead @ 10,052'
4/24/85: Drilled to 10,870', wash and ream
4/29/85: Drilled to 11,378', trip for bit

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

SIGNED W. Randall Miller TITLE Operations Coordinator DATE May 6, 1985

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

THE ANSCHUTZ CORPORATION

2400 ANACONDA TOWER
555 SEVENTEENTH STREET
DENVER, COLORADO 80202
TELEPHONE 303-298-1000
TWX 910-931-2620

RECEIVED
JUN 10 1985
DIVISION OF OIL
GAS & MINING

June 4, 1985

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

RE: Monthly Report of Drilling Progress
(Non-qualifying) W2-10 Well
Section 10-T3N-R7E
Summit County

Gentlemen:

Attached, in triplicate, is a Sundry Notice Form as a monthly report of drilling activity for the above referenced well for May, 1985.

Please contact me if there are any questions.

Sincerely,

W. Randall Miller

W. Randall Miller
Operations Coordinator

Form OGCC-1 be

STATE OF UTAH

OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

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

RECEIVED
JUN 10 1985
DIVISION OF OIL GAS & MINING

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

2. NAME OF OPERATOR: The Anschutz Corporation

3. ADDRESS OF OPERATOR: 2400 Anaconda Tower, 555-17th St., Denver, CO 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1470' FEL, 1953' FSL, Section 2

5. LEASE DESIGNATION AND SERIAL NO.: Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: Anschutz Ranch East

8. FARM OR LEASE NAME:

9. WELL NO.: (non-qualifying) W2-10

10. FIELD AND POOL, OR WILDCAT: Undesignated

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec.2-T3N-R7E

14. PERMIT NO.: 43-043-30265

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 8703 Original Ground

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		PULL OR ALTER CASING		WATER SHUT-OFF		REPAIRING WELL	
FRACTURE TREAT		MULTIPLE COMPLETE		FRACTURE TREATMENT		ALTERING CASING	
SHOOT OR ACIDIZE		ABANDON*		SHOOTING OR ACIDIZING		ABANDONMENT*	
REPAIR WELL		CHANGE PLANS		(Other) Monthly Drilling Report			XX
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

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

5-01-85	W & R, drilling ahead @ 11,537'
5-13-85	Drilling ahead @ 12,362'
5-19-85	Drilled to 12,705', running logs
5-30-85	Run 310 joints $9^5/_8$" casing, set @ 13,150' cement with 1965 sacks

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

SIGNED W. Randall Miller TITLE Operations Coordinator DATE June 4, 1985

W. Randall Miller

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

THE ANSCHUTZ CORPORATION

2400 ANACONDA TOWER
555 SEVENTEENTH STREET
DENVER, COLORADO 80202
TELEPHONE 303-298-1000
TWX 910-931-2620

RECEIVED
JUL 08 1985
DIVISION OF OIL
GAS & MINING

July 2, 1985

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

RE: Monthly Notice of Drilling Progress
(Non-qualifying) W2-10 Well
Section 10-T3N-R7E
Summit County

Gentlemen:

Attached, in triplicate, is a Sundry Notice Form as a monthly report of drilling activity for the above referenced well for June, 1985.

Please contact me if there are any questions.

Sincerely,

W. Randall Miller

W. Randall Miller
Operations Coordinator

Form OGCC-1 b

STATE OF UTAH

OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

RECEIVED

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.)

JUL 08 1985

DIVISION OF OIL GAS & MINING

1. OIL WELL ☒ GAS WELL ☒ OTHER

2. NAME OF OPERATOR: The Anschutz Corporation

3. ADDRESS OF OPERATOR: 2400 Anaconda Tower, 555-17th Street, Denver, Colorado 80202

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

1470' FEL, 1953' FSL, Section 2

5. LEASE DESIGNATION AND SERIAL NO.: Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: Anschutz Ranch East

8. FARM OR LEASE NAME:

9. WELL NO.: (Non-qualifying) W2-10

10. FIELD AND POOL, OR WILDCAT: Undesignated

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 2 T3N-R7E

12. COUNTY OR PARISH: Summit

13. STATE: Utah

14. PERMIT NO.: 43-043-30265

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 8703 Original Ground

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other) Monthly Drilling Report			XX
(Other)			☐	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

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

6-04-85: Finish trip for pressure loss
6-11-85: Drilling ahead @ 14,035'
6-20-85: Drilling ahead @ 15,000'. Trip for bit
6-28-85: Circulating on bottom (15,275')

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

SIGNED W. Randall Miller TITLE Operations Coordinator DATE July 2, 1985

W. Randall Miller

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Form OGCC-1 be

STATE OF UTAH

OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

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

RECEIVED AUG 28 1985 DIVISION OF OIL GAS & MINING

1. OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR: AMOCO PRODUCTION COMPANY

3. ADDRESS OF OPERATOR: P. O. BOX 829, EVANSTON, WYOMING 82930

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: SE/4 NW/4 Sec. 2, 1959' FSL & 1463' FEL

5. LEASE DESIGNATION AND SERIAL NO.: FEE

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Anschutz Ranch East

9. WELL NO.: 2-10

10. FIELD AND POOL, OR WILDCAT: Anschutz Ranch

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 2, T3N, R7E

12. COUNTY OR PARISH: Summit

13. STATE: UT

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 8735' KB

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

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

(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.)*

Propose to Pump and Dispose of Reserve Pit Fluid Downhole Between 13 3/8" and 9 5/8" Casing Annulus

Casing Tests: 13 3/8" casing to 1000 psi. - OK
9 5/8" casing to 2000 psi. - OK

Maximum displacement pressure will not exceed Braiden Head pressure limit of 3000 psi. surface pressure.

Estimate disposal of 3500 bbls

Attachments: Casing & Cementing Diagram
Composite Reserve Pit Fluid Analysis

Estimated date of operation 9/1/85 - 10/1/85

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 9/5/85
BY: John R. Baza

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

SIGNED D. R Adams TITLE Dist Drilling Supervisor DATE 8/27/85

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

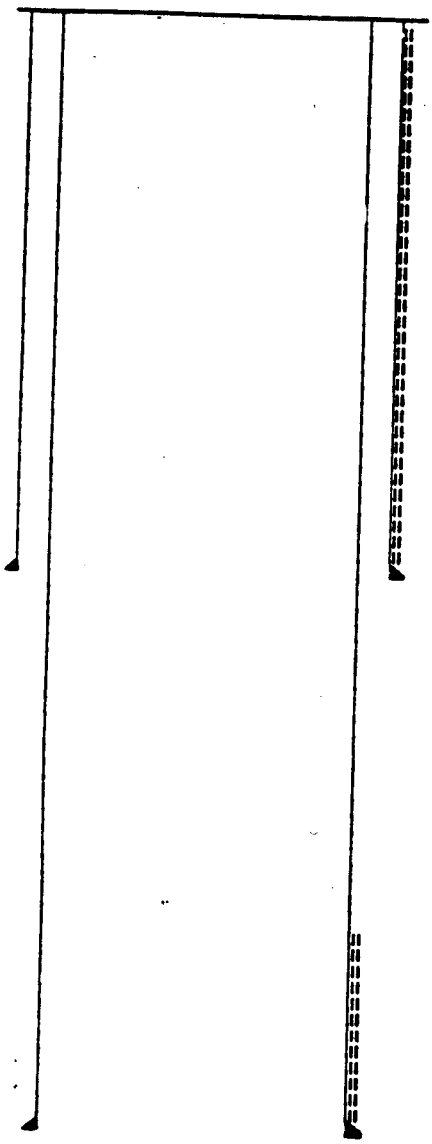
AMOCO PRODUCTION COMPANY

LOCATION: Anschutz 2-10

DATE: 8/27/85

SUBJECT: Wellbore Diagram

BY: Carl Disel



Cemented w/1st stage 2100 sx Lite
Tail w/600 sx Class H

1" w/38 bbls cement to surface

13 3/8"

K-55 - 68#
S-80 - 68#
SS-95- 72#

CSA@ 6993

Cemented w/200 sx Poz
1765 sx Class H

Cement top from CBL Log
10,320

CSA@ 13,156'

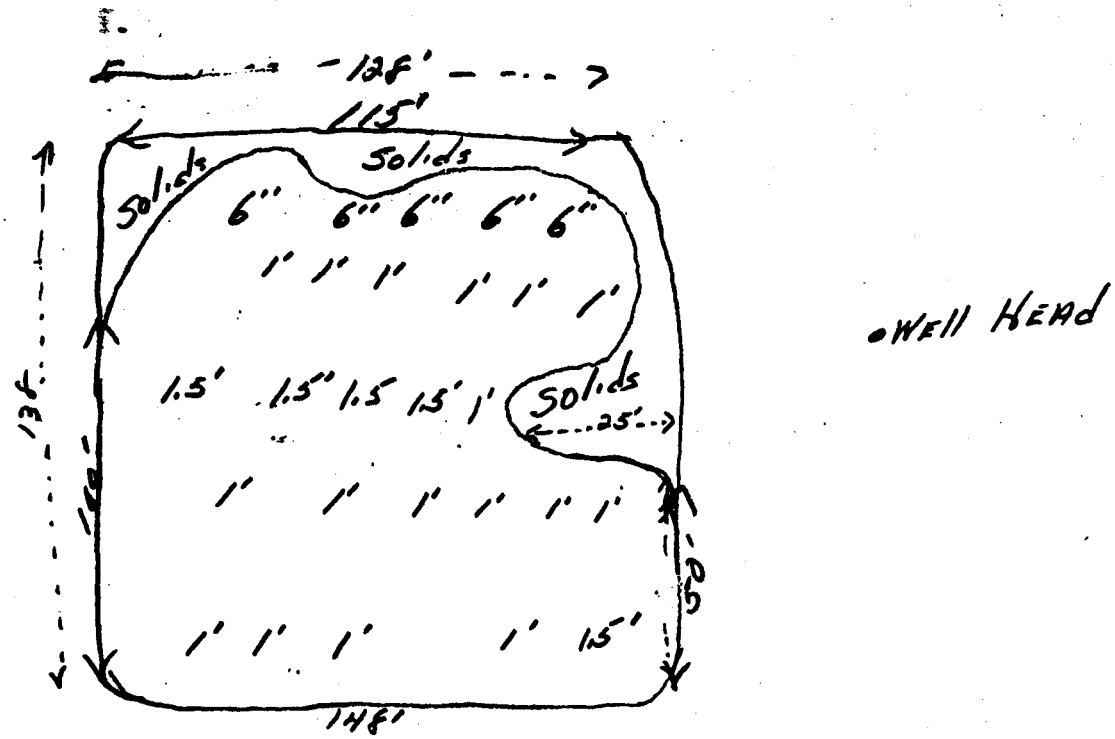
53.5# S-95
40# S-95
47# S-95
62.8# S-105

note: ===== cement

Bomac 90 8/3/85

AMOCO PRODUCTION C

ATTN: CARL DIESEL



BBLS/FT	2988
TOT. BBLS	3288

NOTE: BOTTOM OF PIT INDICATES LARGE VOLUME OF SLUDE
LAB REPORT TO FOLLOW FROM CORE LAB

CORE LABORATORIES, INC.
ANALYTICAL REPORT

08-09-1985

LAB #: W85066-1

AMOCO PRODUCTION COMPANY

WELL #:

FIELD:

COUNTY:

STATE:

LOCATION:

FORMATION:

INTERVAL:

DATE SAMPLED:

SAMPLE ORIGIN: RESERVE PIT

REMARKS: BOMAC 90

	MG/L	MEQ/L		MG/L	MEQ/L		MG/L
SODIUM	7080	307.98	SULFATE	4200	87.36	CALC. SODIUM	5794
POTASSIUM	162	4.15	CHLORIDE	6100	172.02	NACL EQUIVALENT	17168
CALCIUM	480	23.95	CARBONATE	24	0.80	CALC TDS* @356 F	18656
MAGNESIUM	3	0.25	BICARBONATE	1232	20.21	API TDS* @221 F	19281
			HYDROXIDE	0	0.00		
TOTAL CATIONS		336.33	TOTAL ANIONS		280.39	* TOTAL DISSOLVED SOLIDS	

SPECIFIC RESISTANCE AT ~~68F~~ (OHM-M): 77°F

OBSERVED 0.41

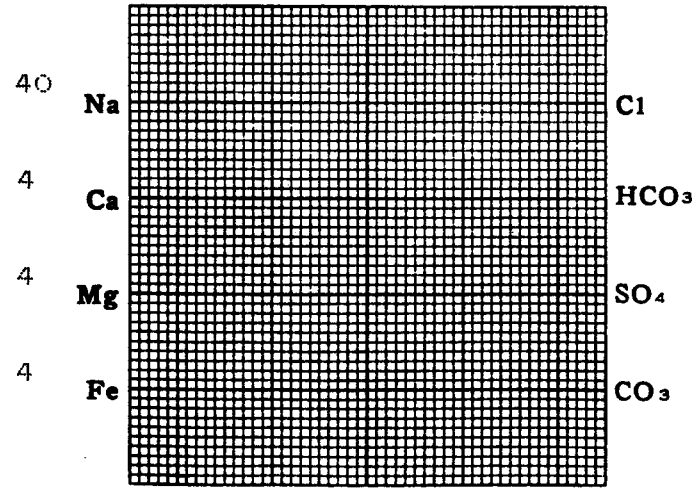
CALCULATED 0.39

OBSERVED pH 8.9

WATER ANALYSIS PATTERN

Scale

MEQ per Unit



(Na value in above graph includes Na and K)

NOTE: Mg/1 = milligrams per liter
Meq/1 = milligram equivalent per liter

Sodium chloride equivalent = by Dunlap & Hawthorne calculation from components

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

CORE LABORATORIES, INC.

P.O. Box 2794
Casper, Wyoming

84 Independence Circle
Evanston, Wyoming 82930

ANALYTICAL REPORT

From Amoco Production Company Product DEQ Work

Address P.O. Box 829 Evanston, Wyom. 82930 Date 08/05/85

Other Pertinent Data Bomac 90, Reserve Pit

Analyzed by S. Loucks Date 08/05/85 Lab. No. W85066

PIT DISCHARGE
RESERVE PIT DRILLING FLUIDS PARAMETERS

ph, units	8.9
Conductivity, micromhos/cm @ 77°F	0.41
Sodium (Na), mg/l	7080.0
Calcium (Ca), mg/l	480.0
Magnesium (Mg), mg/l	3.0
Sodium Absorption Ratio	88.55
Potassium (K), mg/l	162.0
Chlorides (Cl), mg/l	6100.0
Sulfates (SO_4), mg/l	4200.0
Bicarbonates (HCO_3), mg/l	1232.0
Cation-Anion Balance	9.07%
Arsenic (As), mg/l	2.1
Boron (B), mg/l	7.1
Chromium (Cr), mg/l	3.2
Copper (Cu), mg/l	0.0
Nickel (Ni), mg/l	.63
Selenium (Se), mg/l	.009
Zinc (Zn), mg/l	38.8
Oil & Grease, mg/l	11.2
TDS, mg/l (calculated)	18656.0

CORE LABORATORIES, INC.

P.O. Box 2794
Casper, Wyoming

84 Independence Circle
Evanston, Wyoming 82930

ANALYTICAL REPORT

From ....Amoco Production Company..... Product .....DEQ Work.....

Address ..P.O. Box 829 Evanston, Wy. 82930..... Date .....08/05/85.....

Other Pertinent Data .....Bomac 90, Reserve Pit.....

.....

Analyzed by .... S. Loucks..... Date ...08/05/85..... Lab. No. W85066.....

Barium (Ba), mg/l	43.6
Cadmium (Cd), mg/l	ND @.01
Fluoride (F), mg/l	.71
TSS, mg/l	53700.0
TS, mg/l	75470.0
T. Alkalinity, mg/l	1050.0

BCK
Drlg.

DOUBLE "D" ENTERPRISES

B.O.P. Test Report

B.O.P. TEST PERFORMED ON (DATE) 8-14-85

OIL CO.: Amoco

WELL NAME & NUMBER Anschutz Ranch West 2-10

SECTION 2

TOWNSHIP 3N

RANGE 7E

COUNTY Summit

DRILLING CONTRACTOR Pennent #7

INVOICES BILLED FROM: **DOUBLE "D" ENTERPRISES, INC.**
213 Pine Street - Box 560
Shoshoni, Wyoming 82649
Phone: (307) 876-2308 or (307) 876-2234

TESTED BY: **DOUBLE "D" ENTERPRISES, INC.**
Box 2097
Evanston, Wyoming 82930
Phone: (307) 789-9213 or (307) 789-9214

OIL CO. SITE REPRESENTATIVE Bob Paterson

RIG TOOL PUSHER

TESTED OUT OF Evanston, Wyoming

NOTIFIED PRIOR TO TEST:

COPIES OF THIS TEST REPORT SENT COPIES TO: Site Representative
Utah Oil & Gas
B.L.M.

ORIGINAL CHART & TEST REPORT ON FILE AT: Evanston OFFICE

DOUBLE "D" ENTERPRISES, INC.

P.O. Box 560
Shoshoni, Wyoming 82649
307-876-2308

DELIVERY TICKET

№ 3344

Date 8-14-85

Operator Amoco Contractor Pennant Rig No. 7

Ordered By Bob Patterson Lease Anchutz Ranch West Well No. Z-10

County Summitt Section Township Range

Items Tested:

	Low Test	Time Held	High Test	Time Held	Comments
Top Pipe Rams	300	5 min	5000	15 min	OK
Bottom Pipe Rams					
Blind Rams	300	5 min	5000	15 min	OK
Annualar B.O.P.	300	5 min	1500	15 min	OK
Choke Manifold					
Choke Line					
Kill Line					
Super Choke					
Upper Kelly					
Lower Kelly					
Floor Valve	300	5 min	5000	15 min	OK.
Flow ~~Dart~~ Valve	300	5 min	5000	15 min	OK

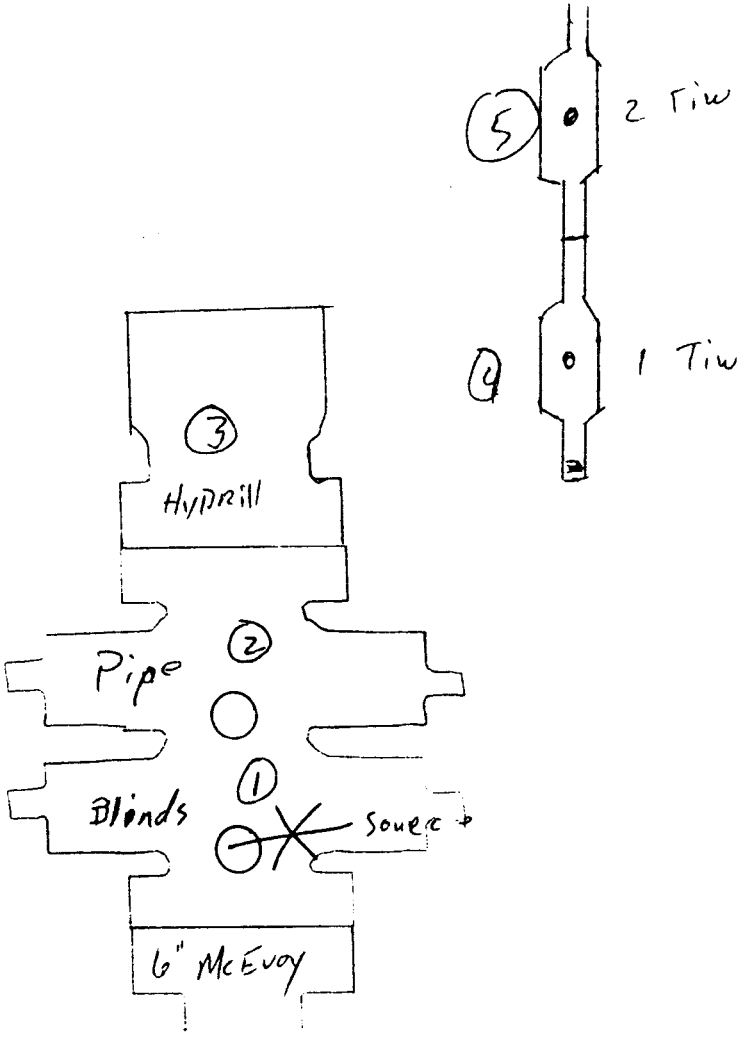
Closing Unit Psi Closing Time of Rams Closing Time of Hydril

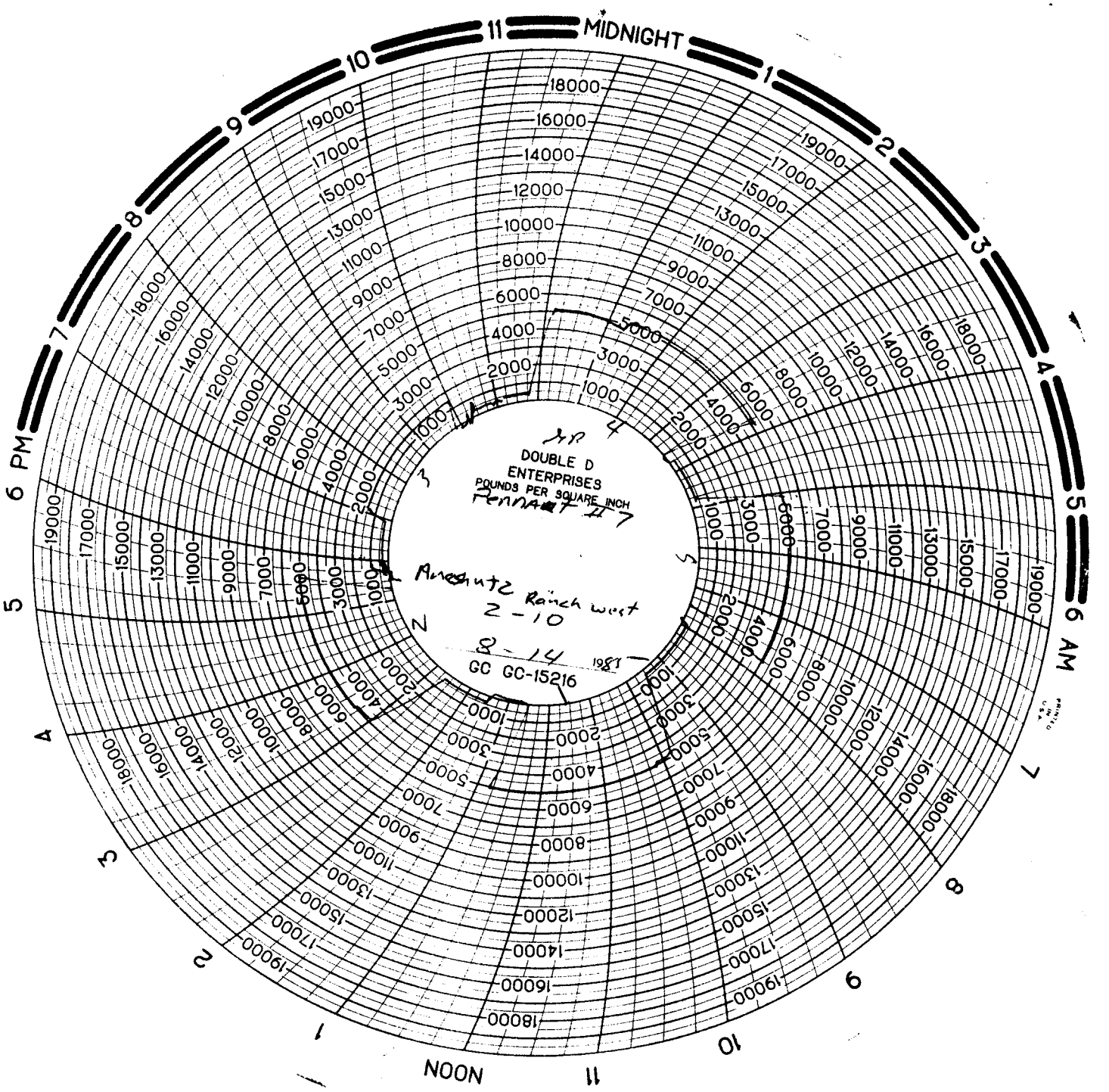
Closed Casing Head Valve Set Wear Sleeve

Comments

COMPANY	LEASE AND WELL NAME #	DATE OF TEST	RIG # AND NAME
Amoco	Anchute Ranch West 2-10	8-14-85	Pennent #7

EST#	TIME	
	4:00 pm	Arrive on Location - set plug
1		Blinds
	4:20-4:25	300 psi ok
	4:25-4:40	5000 ok
		Run joint - switch to Ram
2		Pipes
	4:46-4:51	300 ok
	4:51-5:06	5000 ok
		make Row up under Hydril
3		Hydril
	5:15-5:20	300 ok
	5:20-5:35	1500 ok
		make Sub up to TIW's
4		1st TIW
	6:03-6:08	300 ok
	6:08-6:23	5000 ok
5		2nd TIW
	6:23-6:28	300 ok
	6:28-6:43	5000 ok
		Spool up - made out Ticket


5
2 Tiw
4
1 Tiw
3
Hydrill
2
Pipe
1
Blinds
Source
6" McEvoy


MIDNIGHT
NOON
6 PM
6 AM
DOUBLE D
ENTERPRISES
POUNDS PER SQUARE INCH
Pennant #7
Aneshutz Ranch west
2-10
8-14
1981
GC GC-15216

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

T. G. Doss
District Manager

August 23, 1985

State of Utah
Natural Resources and Energy
4241 State Office Building
Salt Lake City, UT 84114

RECEIVED
AUG 28 1985
DIVISION OF OIL
GAS & MINING

Attn: Cleon B. Feight

File: VEP-412-WF

Injection Well Application
ARE W2-10
Anschutz Ranch East
Summit County, Utah

As requested by C. B. Feight (January 24, 1983), the following application for an Underground Injection Control Class II Well is submitted for your review and approval. The Anschutz Ranch East W2-10 well will be the twelfth well to be used for gas injection purposes in the Anschutz Ranch East field (reference Amoco Production Company letter dated April 7, 1983). Please find attached the above mentioned application and attachments for the ARE W2-10 well. As discussed with Gil Hunt (8-21-85), part two of the application will be submitted once the well is completed.

Amoco Production Company has reviewed Rule 1, Underground Injection Criteria and Standards. All data requested for Rule I-5, Application for Approval of Class II Injection Wells, has been submitted under this letter. Additionally, Amoco has reviewed R-I-6, Operating Requirements for Class II Injection Wells, and will meet the requirements as specified. Amoco recommends an alternative to Rule I-6-A-3 regarding pressure testing the casing as noted in the attached section entitled "Pressure Testing".

As always, measures are being undertaken to ensure that contamination of fresh water will not occur. It should be noted that a step-rate test was conducted during February 1985, to establish the parting pressure of the Nugget formation. Amoco will ensure that injection pressures are less than that parting pressure.

Please direct any questions to Mike Healey in the Evanston District Office at (307) 789-1700.

T. G. Doss

T. G. Doss

MWH/ht

Attachments

RECEIVED

AUG 28 1985

DIVISION OF OIL GAS & MINING

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

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)

IN THE MATTER OF THE APPLICATION OF
Amoco Production Company, USA

ADDRESS P.O. Box 829
Evanston, WY ZIP 82930

INDIVIDUAL ___ PARTNERSHIP ___ CORPORATION x

FOR ADMINISTRATIVE APPROVAL TO DISPOSE OR INJECT FLUID INTO THE ARE W2-10 WELL

SEC. 2 TWP. 3N RANGE 7E

Summit COUNTY, UTAH

CAUSE NO. _____

- ENHANCED RECOVERY INJ. WELL [X]
- DISPOSAL WELL [ ]
- LP GAS STORAGE [ ]
- EXISTING WELL (RULE I-4) [ ]

APPLICATION

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

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

Lease Name: ARE 2-10	Well No.: ARE W2-10	Field: Anschutz Ranch East	County: Summit
Location of Enhanced Recovery Injection or Disposal Well: Injection	Sec. 2	Twp. 3N	Rge. E
New Well To Be Drilled: Yes [X] No [ ]	Old Well To Be Converted: Yes [ ] No [X]	Casing Test: Yes [X] No [ ] Date 8/17/85	
Depth-Base Lowest Known Fresh Water Within ½ Mile: ≅ 3000'	Does Injection Zone Contain Oil-Gas-Fresh Water Within ½ Mile: YES [X] NO [ ]	State What: Gas	
Location of Injection Source(s): Nitrogen extraction plant Uinta County, Wyoming	Geologic Name(s) and Depth of Source(s): Nitrogen extraction via atmosphere		
Geologic Name of Injection Zone: Nugget	Depth of Injection Interval: 14884 to 15530		
a. Top of the Perforated Interval: 14,904'	b. Base of Fresh Water: ≅ 3000'	c. Intervening Thickness (a minus b): 11,904'	
Is the intervening thickness sufficient to show fresh water will be protected without additional data? YES [X] NO [ ]			
Lithology of Intervening Zones: Gannet (Claystone); Preuss (sandstone/shale); Salt; Twin Creek (limestone)			
Injection Rates and Pressures: Maximum 50 MM B/D; 6100 PSI			
The Names and Addresses of Those to Whom Notice of Application Should be Sent. All interest owners in Anschutz Ranch East are members of a unit agreement.			

State of Wyoming)
County of Uinta)

Amoco Production Company / Vann E. Prater
Applicant

Before me, the undersigned authority, on this day personally appeared Vann E. Prater 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.

Subscribed and sworn to before me this 23rd day of August, 19 85

Marita L. Lewis
Notary Public in and for Uinta County

MARITA L. LEWIS
NOTARY PUBLIC
COUNTY OF UINTA
STATE OF WYOMING
My Commission Expires 2-11-86

(OVER)

FORM DOGM-UIC-1 (continued)

INSTRUCTIONS

1. Attach qualitative and quantitative analysis of representative sample of water to be injected and a qualitative and quantitive analysis of the injection formation of water.

2. Attach plat showing subject well and all known oil and gas wells, abandoned, drilling and dry holes within one-half mile, together and with the name of the operator(s).

3. Attach Drillers Log (Form DOGM-UIC-2). (Appropriate Surety must be on file with Conservation Division or appropriate government agencies.)

4. Attach Electric or Radioactivity Log of Subject well (if released).

5. Attach schematic drawing of subsurface facilities including; Size, setting depth, amount of cement used measured or calculated tops of cement surface, intermediate (if any) and production casings; size and setting depth of tubing; type and setting depth of packer; geologic name of injection zone showing top and bottom of injection interval.

6. If the application is for a NEW well the original and six (6) copies of the application and three (3) complete sets of attachments shall be mailed to the Division. For EXISTING well applications (Rule I-4) only ONE copy of the application and ONE complete set of attachments are required to be mailed to the Division.

7. The Division is required to send notice of application to he surface owner of the land within one-half mile of the injection well and to each operator of a producing leasehole within one-half mile of the injection well. List all required names and addresses in the appropriate space provided on the front of this form.

8. Notice that an application has been filed shall be published by the Division in a newspaper of general circulation in the county of publication before the application is approved. The notice shall include the name and address of applicant, location of proposed injection or disposal well, injection zone, injection pressure and volume. If no written objection is received within 15 days from date of publication the application may be approved administratively.

9. A well shall not be used for injection or disposal unless completed machine accounting Form DOGM-UIC-3b is filed by January 31st each year.

10. Approval of this application, if granted, is valid only as long as there is no substantial change in the operations set forth in the application. A substantial operation change requires the approval of a new application.

11. If there is less intervening thickness required by Rule I-5 (b) 4, attach sworn evidence and data.

12. For enhanced recovery projects, information required by Rule I-4 which is common to more than one well, need be reported only once on the application.

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
Surface	13 3/8"	6,980	2700	4890'	CBL
Intermediate	9 5/8"	13,150	1965	10320'	Temp. Log
Production	7	15,530	535	11760'	CBL
Tubing	3 1/2"	≅ 14,800'	Name - Type - Depth of Tubing Packer Baker Retrieva DB Packer SA ≅ 14,700'		

Total Depth	Geologic Name - Inj. Zone	Depth - Top of Inj. Interval	Depth - Base of Inj. Interval
15,530'	Nugget	14,884'	15,530'

FORM DOGM-UIC-2
(Rule I-5 (b) 2
(Revised 1982)

PLEASE TYPE OR USE BLACK INK ONLY

(To be filed within 30 days after drilling is completed)

COUNTY LEASE NO.

DEPARTMENT OF NATURAL RESOURCES AND ENERGY

API NO.

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

640 Acres
N
W E
S
Locate Well Correctly and Outline Lease

COUNTY Summit SEC. 2 TWP. 3N RGE. 7E

COMPANY OPERATING Amoco Production Company

OFFICE ADDRESS P.O. Box 829

TOWN Evanston STATE ZIP WY 82930

FARM NAME Anschutz WELL NO. ARE W2-10

DRILLING STARTED 10-15 19 84 DRILLING FINISHED 7-22 19 85

DATE OF FIRST PRODUCTION 8-28-85 COMPLETED 9-2-85

WELL LOCATED ___ ¼ NE ¼ SE ¼

1959 FT. FROM SL OF ¼ SEC. & 1187 FT. FROM WL OF ¼ SEC.

ELEVATION DERRICK FLOOR 8734 GROUND 8704

TYPE COMPLETION

Single Zone X

Multiple Zone

Comingled

LOCATION EXCEPTION

OIL OR GAS ZONES

Name	From	To	Name	From	To
Nugget	14,884'	15,530'			

CASING & CEMENT

Casing Set				Csg. Test	Cement		
Size	Wgt.	Grade	Feet	Psi	Sax	Fillup	Top
13 3/8	68+72	K-55,S-95	6980'		2700		4,890'
9 5/8	40-63	S-95	13,150'		1965		10,320'
7	23-29	S-95	15,530'	1500	535		11,766'

TOTAL DEPTH 15,530'

PACKERS SET DEPTH 14,700'

NOTE: THIS FORM MUST ALSO BE ATTACHED WHEN FILING PLUGGING FORM DOGM-UIC-6

COMPLETION & TEST DATA BY PRODUCING FORMATION

	1	2	3
FORMATION	Nugget		
SPACING & SPACING ORDER NO.			
CLASSIFICATION (DISPOSAL WELL, ENHANCED RECOVERY, LP GAS STORAGE)	Enhanced Recovery		
PERFORATED	14,904'-15,342'(gross)		
INTERVALS			
ACIDIZED?	NO		
FRACTURE TREATED?	NO		

INITIAL TEST DATA

Date	8-29-85		
Oil, bbl./day	366		
Oil Gravity	48		
Gas, Cu. Ft./day	1,123,000 CF	CF	CF
Gas-Oil Ratio Cu. Ft./Bbl.	3068		
Water-Bbl./day	13		
Pumping or Flowing	Flowing		
CHOKE SIZE	20/64		
FLOW TUBING PRESSURE	1000		

A record of the formations drilled through, and pertinent remarks are presented on the reverse. (use reverse side)

I, the undersigned, being first duly sworn upon oath, state that this well record is true, correct and complete according to the records of this office and to the best of my knowledge and belief.

Telephone

Vann E. Prater District Engineer
Name and title of representative of company

Subscribed and swern before me this 6th day of September, 19 85

Marita L. Lewis
2-11-86

MARITA L. LEWIS
NOTARY PUBLIC
COUNTY OF UINTA
STATE OF WYOMING

LIST OF ATTACHMENTS

MAP

SURFACE OWNERS

INJECTION

INJECTION OPERATING DATA

ARE MIXING STATION

WELLHEAD SCHEMATIC

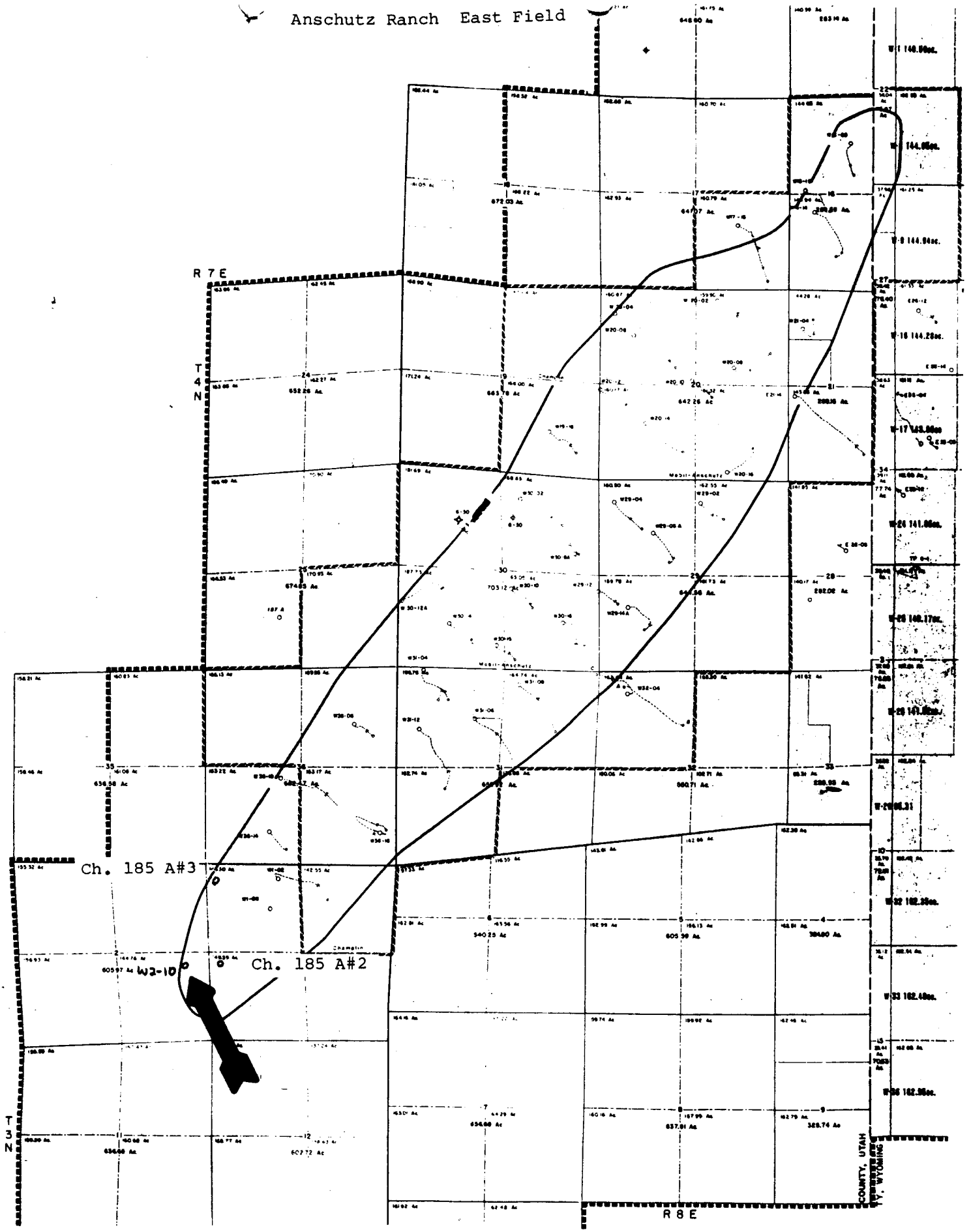
FORMATION PRESSURE TESTING

MECHANICAL INTEGRITY TEST

PRESSURE TESTING

INDIVIDUAL WELL DATA

Anschutz Ranch East Field



Anschutz Ranch East

Surface Owners Within One-Half Mile of the W2-10 Injection Well*

Well	Type	Total Depth	Surface Owners
W1-12	Producing	16,115'	Anschutz - Sec. 1
W1-04	Producing	15,353'	Anschutz - Sec. 1
W1-06	Producing	15,848'	Anschutz - Sec. 1

* Amoco operates all the wells in the field

Injection

Maximum injection rate - 50 MMSCFD
Maximum surface pressure - 6100 psi
Injection fluid- 65% hydrocarbon gas/35% nitrogen

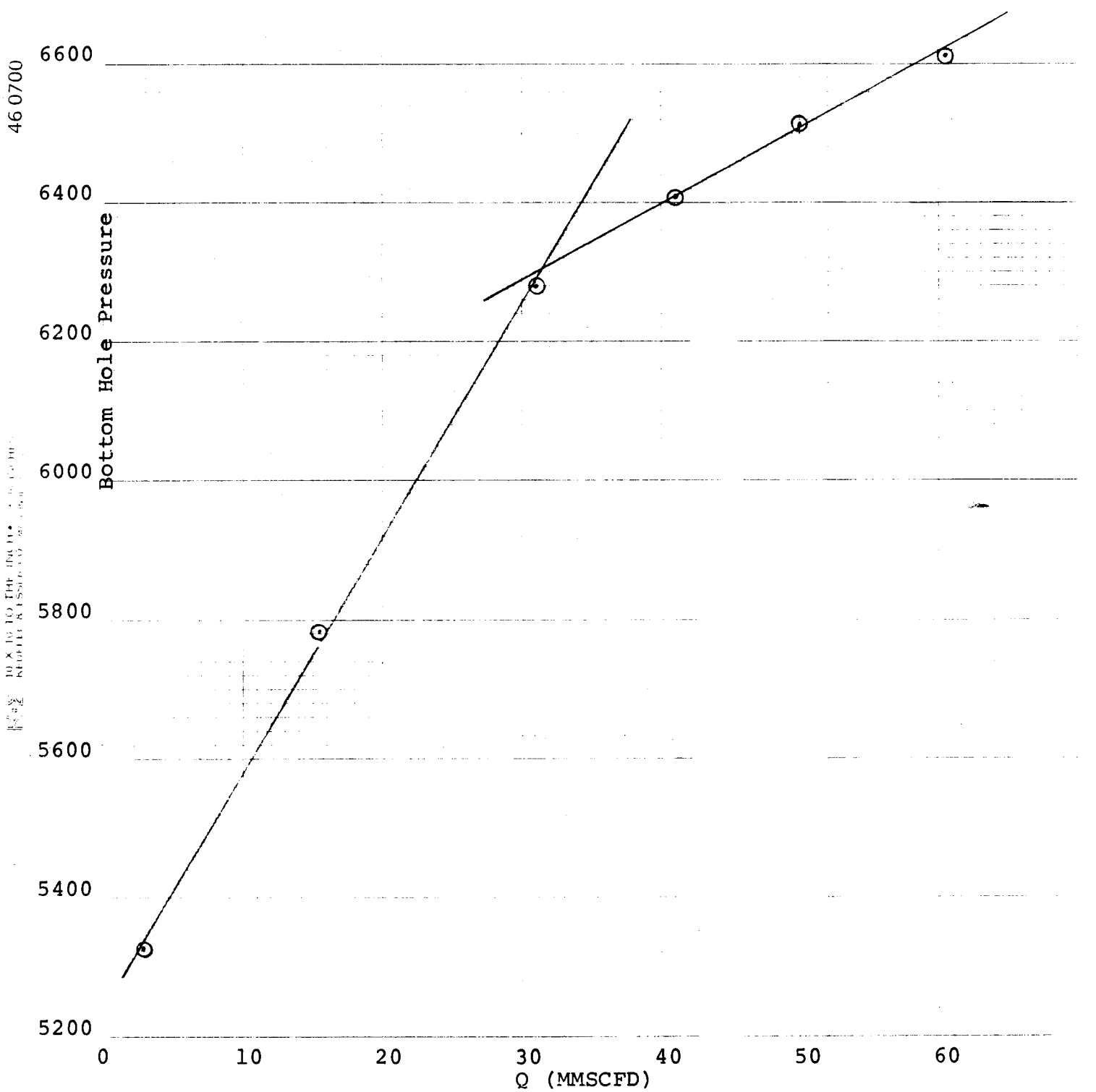
A step rate test was conducted during February, 1985 on the ARE W20-14 injection well in the Nugget formation. One hundred percent nitrogen was used for the test. Injection rates started at 3 MMSCFD at a wellhead pressure of 3760 psi (BHP = 5329 psi) and were increased to a final rate of 60.5 MMSCFD at a wellhead pressure of 5552 psi (BHP = 6616 psi). A cartesian plot of injection rate versus bottomhole pressure shows that the Nugget formation did part at a pressure and rate less than that requested for W2-10. However, the parting pressure and rate vary between wells based upon the depth and perforated pay quality. The data on the W20-14 and previous step rate data show the fracture gradient in the Nugget Formation to be .51 psi/ft. Other injection wells do have higher injection rates and pressures and are not fracturing based upon the .51 psi gradient.

We do not expect to reach the parting pressure with the requested 6100 psi surface pressure and 50 MMSCFD rate because of the pressure losses caused by the transferral of the gas to the formation face. Amoco will collect data to ensure the W2-10 injection pressures are less than the parting pressure.

ANSCHUTZ W20-14 STEP RATE TEST

RATE	BHP
3.0	5329
15.7	5786
31.0	6280
41.0	6415
50.0	6514
60.5	6616

Pressure Gauge @ 12,300'



46 0700

Injection Operating Data

ARE Injection Wells

Design injection press = 6100 psi
Design injection rate = 450 MMSCFD total

RTU (remote terminal unit) at mixing station controls (remaining percentage hydrocarbon gas)

1. Max of 35% N_2 (excess is vented to atmosphere)

2. Max injection pressure of 6100 psi (vent N_2 to atmosphere to control press.) through a vent valve at the mixing station.

Safety Controls on all Compressors: (compressing gas to injection pressure)

1. High pressure, high temperature shutdown switches.

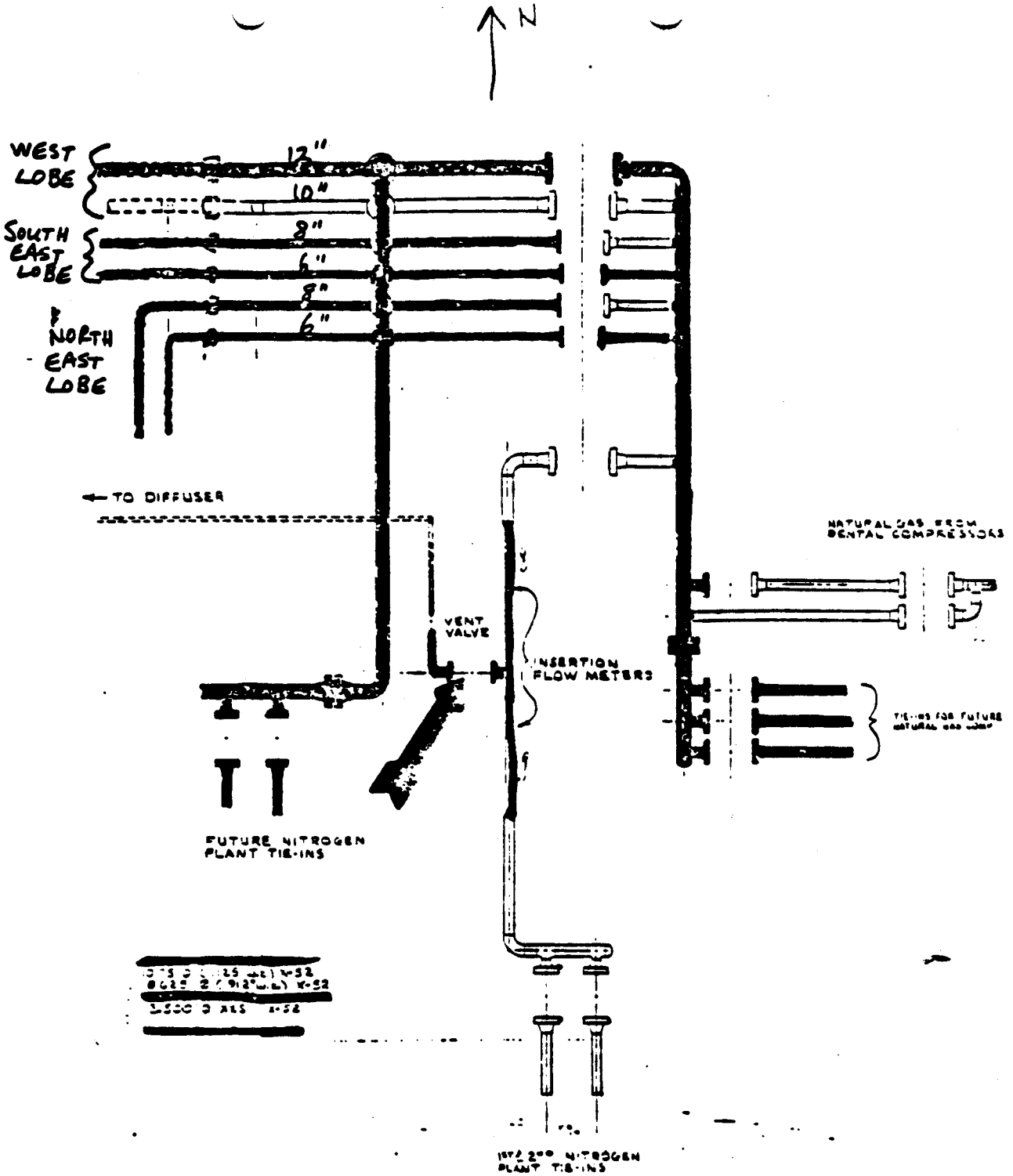
2. Pressure relief valve (6200 psi)

Wellhead Safety equipment:

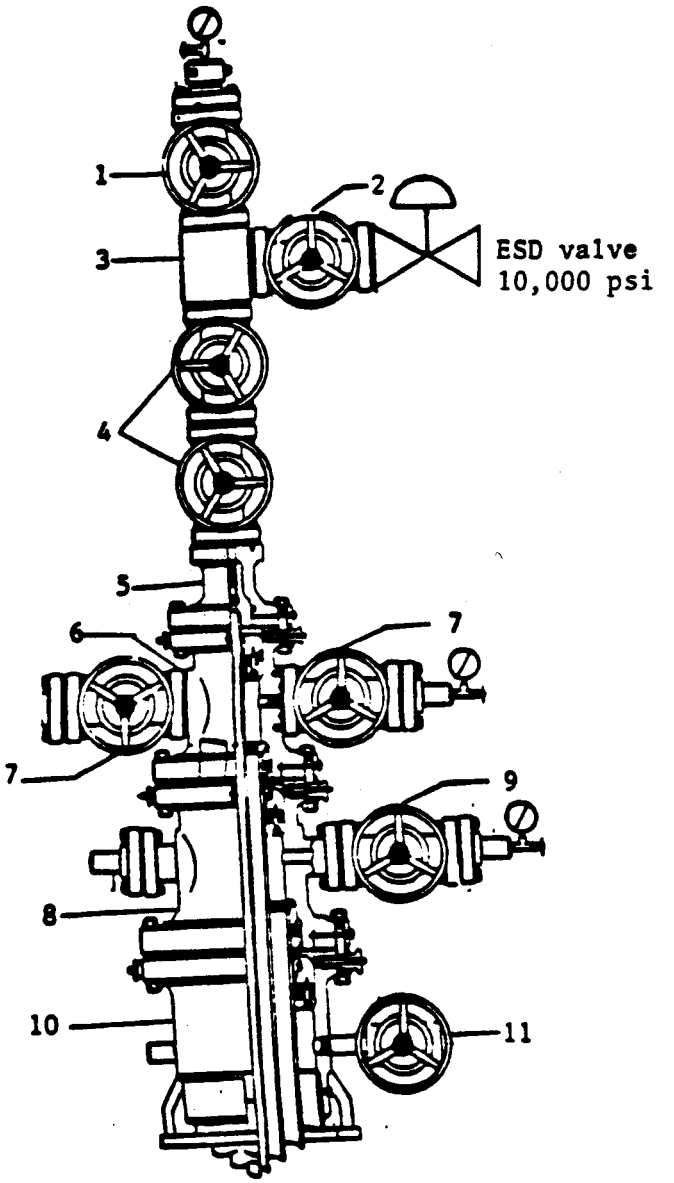
1. ESD valve on injection flowline - shuts down on a high casing-tubing annulus pressure (3000 psig)

Contingency Plan

1. If high pressure shutdown occurs, the problem will be identified, the well shut-in, the high pressure will be bled off, and repair work will commence.



ARE Mixing Station



1. Swab valve, 3-1/16" ID, 10,000 psi w.p.
2. Wing valve, 3-1/16" ID, 10,000 psi w.p.
3. Flow tee, 10,000 psi w.p.
4. Master valve, 3-1/16" ID, 10,000 psi w.p.
5. Adapter, 10,000 psi x 10,000 psi w.p.
6. Tubing spool, 5,000 psi x 10,000 psi w.p.
7. Gate valve, 1-13/16" ID, 10,000 psi w.p.
8. Intermediate casing spool, 3000 psi x 5000 psi w.p.
9. Gate valve, 2-1/6" ID, 5000 psi w.p.
10. Surface casing head, 3000 psi w.p.
11. Ball valve, 1-1/2" ID, 3000 psi w.p.

FIGURE 23. Typical Wellhead for Injection Wells

Formation Testing Programs

An extensive bottomhole pressure monitoring program is being conducted in the Anschutz Ranch East Field. Falloff tests are performed on each injection well quarterly. Buildups and static gradient surveys are run on selected producers periodically to help monitor the reservoir pressure. Occasionally, special tests such as step rate tests are conducted.

Continuous monitoring of produced fluids is being undertaken. An automated gas-chromatograph system is operational which samples all producing wells daily to determine if injection gas breakthrough has occurred.

MECHANICAL INTEGRITY TEST

In reference to Rule 1-5-b-8 concerning mechanical integrity tests, Amoco's procedure is to fill the casing with 2% KCL water after drilling out cement from the primary cement job and then apply 1000-1500 psi to the casing while running a CBL. This is a pressure test of about 7200-7700 psi at bottom-hole conditions in a 14,000' well. Additional tests are performed when cement retainers or packers are set. The annulus is usually tested to 1500 psi with 2% KCL water in the hole to make sure the cement retainers or packers are not leaking. The pressure is applied by pumping down the backside with a rig pump. When the final packer and production strings are set in the hole the casing tubing annulus is pressure tested to 1500-3000 psi with corrosion inhibited 2% KCL water in the casing-tubing annulus.

PRESSURE TESTING

In reference to Rule 1-6-a-3, a test of the casing to the maximum authorized injection pressure of the new injection wells, 5500 psi, using Amoco's procedure of testing with 2% KCL water in the hole would exceed the mechanical rating of the casing and possibly cause a failure. Therefore, Amoco recommends the following alternative: Test the casing to 1500 psi with 2% KCL water . Testing to 1500 psi with 2% KCL water in the hole will provide the same bottom-hole pressure as applying 5500 psi with gas in the hole. Amoco performs the test with water in the hole for safety considerations and to insure the annulus is not left full of gas, which would be necessary if the test was performed with gas. The casing tubing annulus is left filled with 2% KCL water with corrosion inhibitor.

ARE W2-10 - Geologic Data

Twin Creek:

lithology - limestone
thickness - 1,694'
top - 13,190'

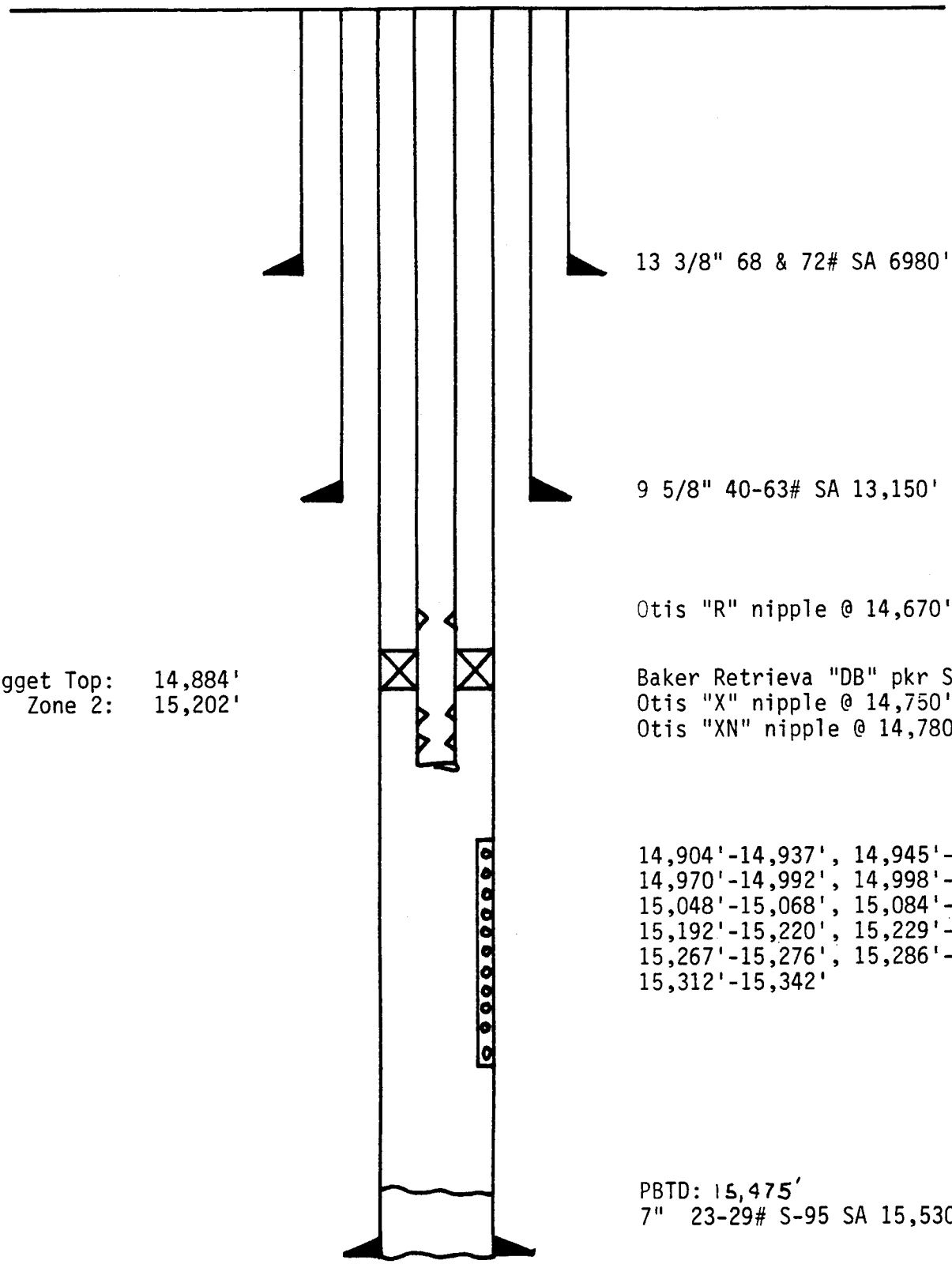
Nugget:

lithology - sandstone
thickness - 646'
top - 14,884'

ANSCHUTZ RANCH EAST WELLBORE DIAGRAM

Proposed ARE W2-10

Sec 2 - T3N - R7E Summit County, Utah 8735' KB 8704' GL



Cement Bond Log Evaluation of ARE W2-10

Excellent cement bond from TD to 14,080'
(Nugget into the Twin Creek)

DRLG. WI 10

RECEIVED AUG 29 1985 DIVISION OF OIL GAS & MINING

Form OGCC-1 be

STATE OF UTAH

OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

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

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

2. NAME OF OPERATOR: The Anschutz Corporation

3. ADDRESS OF OPERATOR: 555 17th. St., Suite 2400, Denver, Colo. 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1470' FEL, 1953' FSL, Section 2

5. LEASE DESIGNATION AND SERIAL NO.: Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: Anschutz Ranch East

8. FARM OR LEASE NAME:

9. WELL NO.: (non-qualifying) W2-10

10. FIELD AND POOL, OR WILDCAT: undesignated

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec.2 T3N R7E

14. PERMIT NO.: 43-043-30265

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 8703 Original Ground

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:

TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]
(Other)			[ ]

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
(Other) Change of Operator			[XX]

(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.)*

ARE W2-10 well accepted into unit 7-25-85 (at drilling rig release) by the unit operator (Amoco) making it a qualifying unit.

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

SIGNED Maggie Grigsby TITLE Drilling Tech. DATE 8-27-85

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

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

---ooOoo---

IN THE MATTER OF THE APPLICATION OF AMOCO PRODUCTION COMPANY, FOR ADMINISTRATIVE APPROVAL OF THE ARE W2-10 WELL, LOCATED IN SECTION 2, TOWNSHIP 3 NORTH, RANGE 7 EAST, SUMMIT COUNTY, UTAH, AS A CLASS II GAS INJECTION WELL	:	CAUSE NO. UIC-068

---ooOoo---

THE STATE OF UTAH TO ALL INTERESTED PARTIES IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that Amoco Production Company, USA, P.O. Box 829, Evanston, Wyoming 82930, has requested administrative approval of ARE W2-10 well, located 1470' FEL and 1953' FSL (NWSE) of Section 2, Township 3 North, Range 7 East, Summit County, Utah as a Class II gas injection well.

The proposed operating data for the well is as follows:

Injection Interval: Nugget Formation 14,884' to 15,530'
Maximum Estimated Surface Pressure: 6100 psig
Maximum Estimated Gas Injection Rate: 50 MMSCFD

Approval of 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 the Division of Oil, Gas and Mining, Attention: UIC Program Manager, 355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Utah 84180-1203.

DATED this 29th day of August, 1985.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

Marjorie L. Anderson

MARJORIE L. ANDERSON
Administrative Assistant

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

September 3, 1985

Newspaper Agency
Legal Advertizing
Mezzanine Floor
143 South Man
Salt Lake City, Utah 84111

Gentlemen:

RE: Cause No. UIC-068

Attached hereto is a Notice of Application of Administrative Approval, before the Division of Oil, Gas and Mining, Department of Natural Resources, State of Utah.

It is requested that this notice be published ONCE ONLY, as soon as possible but no later than the 11th day of September. In the event that said notice cannot be published by this date, please notify this office immediately by calling 538-5340 Ex. 5296.

Upon completion of this request, please send proof of publication and statement of cost to the Division of Oil, Gas and Mining, 355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Utah 84180-1203.

Very truly yours,
DIVISION OF OIL, GAS AND MINING

for Marjorie Larson

MARJORIE L. LARSON
Administrative Assistant

mfp
0045A

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

September 3, 1985

Park Record
Legal Advertizing
P.O. Box 3688
Park City, Utah 84060

Gentlemen:

RE: Cause No. UIC-068

Attached hereto is a Notice of Application of Administrative Approval, before the Division of Oil, Gas and Mining, Department of Natural Resources, State of Utah.

It is requested that this notice be published ONCE ONLY, as soon as possible but no later than the 11th day of September. In the event that said notice cannot be published by this date, please notify this office immediately by calling 538-5340 Ex. 5296.

Upon completion of this request, please send proof of publication and statement of cost to the Division of Oil, Gas and Mining, 355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Utah 84180-1203.

Very truly yours,
DIVISION OF OIL, GAS AND MINING

Marlayne Poulson
for
MARJORIE L. LARSON
Administrative Assistant

mfp
0045A

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

September 5, 1985

Amoco Production Company
P.O. Box 829
Evanston, Wyoming 82930

Gentlemen:

RE: Reserve Pit Drilling Fluid Disposal - Anschutz Ranch East Well No. 2-10, Section 2, T.3N, R.7E, Summit County, Utah

The Division staff has reviewed your proposed procedure for drilling fluid disposal operations on the referenced well. We have determined that your request conforms to the requirements of the Emergency Order dated February 4, 1985; therefore, approval to proceed with this disposal operation is hereby granted.

Best regards,

Dianne R. Nielson

Dianne R. Nielson
Director

sb
cc: R.J. Firth
~~J.R. Baza~~
0155T-28

Form OGC-3

SUBMIT IN I[illegible]ICATE*
(See other in[illegible]ctions on reverse side)

56 64 01 10

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

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

RECEIVED

3. ADDRESS OF OPERATOR: P. O. BOX 829, EVANSTON, WYOMING 82930

SEP 06 19[illegible]

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface: 1463' FEL & 1959' FSL ✓OK

NWSE

At top prod. interval reported below: 772' FEL & 2226' FSL

At total depth: 476' FEL & 2183' FSL

DIVISION OF OIL, GAS & MINING

5. LEASE DESIGNATION AND SERIAL NO.: Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: Anschutz Ranch East

8. FARM OR LEASE NAME: Anschutz Ranch East

9. WELL NO.: W2-10

10. FIELD AND POOL, OR WILDCAT: Undesignated ~~Anschutz Ranch East~~

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 2, T3N, R7E

14. PERMIT NO.: 43-043-30265 | DATE ISSUED: 9-11-84

12. COUNTY OR PARISH: Summit | 13. STATE: Utah

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (Ready to prod.)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
10/15/84	7/18/85	9/2/85	8734' KB	8704' GR

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
15530'MD 15361' TVD	15475'MD 15306'	TVD	→	sfc to TD	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: Nugget Sandstone 14,904' - 15,342' MD; 14,794' - 15,173' TVD

25. WAS DIRECTIONAL SURVEY MADE: Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN: ~~FDC-CNL~~, ~~DIL~~, ~~LSS~~ BCS, Dipmeter, CBL SWID NGLS

27. WAS WELL CORED: No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8"	68# & 72#	6980'	17 1/2"	2700 sx	
9 5/8"	40 - 63#	13150'	12 1/4"	1965 sx	
7"	23 - 29#	15530'	8 1/2"	535 sx	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
3 1/2"	14780'	14700'

31. PERFORATION RECORD (Interval, size and number)

14904"-14937' 15084'-15093' 15312'-15342'
14945'-14957' 15192'-15220'
14970'-14992' 15229'-15255' All 4JSPF
14998'-15027' 15267'-15276'
15048'-15068' 15286'-15300'

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
8/27/85	Flowing	Gas Injection

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
8/28/85	24	20/64	→	366	1123	13	3068

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
1000	250	→	366	1123	13	48

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.): Re-injection for pressure maintenance

TEST WITNESSED BY: Bob Pattison

851029

35. LIST OF ATTACHMENTS

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

SIGNED Vann E. Prater TITLE District Engineer DATE 9/3/85

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.
If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.
Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.
Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.
Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.
Item 29: *"Sacks Cement"*: Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.
Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
Twin Creek	13,190'	13,081'
Nugget	14,884'	14,777'

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

T. G. Doss
District Manager

RECEIVED
SEP 09 1985
DIVISION OF OIL
GAS & MINING

September 5, 1985

State of Utah
Natural Resources and Energy
4241 State Office Building
Salt Lake City, UT 84114

Attn: Gil Hunt

File: VEP-434-WF

ARE W2-10 Injection Well Application
Anschutz Ranch East
Summit County, Utah

Dear Mr. Hunt:

Attached is part two of the ARE W2-10 injection well application. Part two was not submitted with the original application dated August 23, 1985, since the well was in the process of being completed. The well has been completed and is ready to start injection once your approval is obtained.

Please direct any questions to Mike Healey in the Evanston District Office at (307) 789-1700.

Truly yours,

T. G. Doss vep

T. G. Doss

MWH/vje

Attachment

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

September 26, 1985

Amoco Production Company, USA
P.O. Box 829
Evanston, Wyoming 82930

Gentlemen:

RE: Injection Well Approval - Cause No. UIC-068

Administrative approval is hereby granted to convert the following listed well to a Class II enhanced recovery gas injection well:

#W2-10
Section 2, Township 3 North, Range 7 East
Summit County, Utah

This approval is conditional upon full compliance with the UIC rules and regulations adopted by the Board of Oil, Gas and Mining, and construction and operation of the well as outlined in the application submitted.

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

Best regards,

Dianne R. Nielson

Dianne R. Nielson
Director

mfp
7627U

PROOF OF PUBLICATION

RECEIVED
OCT 01 1985
DIVISION OF OIL
GAS & MINING

STATE OF UTAH,
County of Summit, } ss.

I, Mary Balliette

being first duly sworn, depose and say that I am the receptionist of The Park Record, a weekly newspaper of general circulation, published once each week at Park City, Utah, that the notice attached hereto and which is a Application for approval of well

was published in said newspaper for one consecutive issues, the first publication having been made on the 12th day of September, 1985, and the last on the 12th day of September, 1985, 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.

Mary Balliette

Subscribed and sworn to before me this 27 day of September, 1985.

Susan Davis
Notary Public

My commission expires October 17, 1987.

Application for approval of well

LEGAL NOTICE
BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RESOURCES
STATE OF UTAH

Cause No. UIC-068
In the matter of the application of Amoco Productive company, for administrative approval of the ARE W2-10 well, located in Section 2, Township 3 North, Range 7 East, Summit County, Utah, as a Class II Gas Injection Well.

The state of Utah to all interested parties in the above entitled matter.

Notice is hereby given that Amoco Production Company, USA, P.O. Box 829, Evanston, Wyoming 82930, has requested administrative approval of ARE W2-10 well, located 1470' FEL and 1953' FSL (NWSE) of Section 2, Township 3 North, Range 7 East, Summit County, Utah as a Class II gas injection well.

The proposed operating data for the well is as follows:
Injection Interval: Nugget Formation 14,884' to 15,530'
Maximum Estimated Surface Pressure: 6100 psig

Maximum Estimated Gas Injection Rate: 50 MMSCFD

Approval of 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 the Division of Oil, Gas and Mining, Attention: UIC Program Manager, 355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Utah 84180-1203.

DATED this 29th day of August, 1985.
State of Utah
Division of Oil, Gas and Mining

Published in the Park Record Sept. 12, 1985.

Affidavit of Publication

ADM-358

STATE OF UTAH,

County of Salt Lake **ss.**

BEFORE THE DIVISION OF OIL, GAS & MINING DEPARTMENT OF NATURAL RESOURCES STATE OF UTAH CAUSE NO. UIC-068

IN THE MATTER OF THE APPLICATION OF AMOCO PRODUCTION COMPANY, FOR ADMINISTRATIVE APPROVAL OF THE ARE W2-10 WELL, LOCATED IN SECTION 2, TOWNSHIP 3 NORTH, RANGE 7 EAST, SUMMIT COUNTY, UTAH, AS A CLASS II GAS INJECTION WELL.

THE STATE OF UTAH TO ALL INTERESTED PARTIES IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that Amoco Production Company, USA, P.O. Box 829, Evanston, Wyoming 82930, has requested administrative approval of ARE W2-10 well, located 1470' FEL and 1953' FSL (NWSE) of Section 2, Township 3 North, Range 7 East, Summit County, Utah as a Class II gas injection well.

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Approval of 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 the Division of Oil, Gas and Mining, Attention: UIC Program Manager, 355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Utah 84180-1203.

DATED this 29th day of August, 1985.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
MARJORIE L. ANDERSON
Administrative Assistant

N-2

Cheryl Gierloff

Being first duly sworn, deposes and says that he/she 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 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

Cause No. UIC-068 Application of AMOCO

Production Company

was published in said newspaper on

September 11, 1985

Cheryl Gierloff
Legal Advertising Clerk

Subscribed and sworn to before me this 2nd day of October A.D. 19 85

Notary Public

My Commission Expires

March 1, 1988

Affidavit of Publication

ADM-35B

STATE OF UTAH,

County of Salt Lake **SS.**

BEFORE THE DIVISION OF OIL, GAS & MINING DEPARTMENT OF NATURAL RESOURCES STATE OF UTAH CAUSE NO. UIC-068

IN THE MATTER OF THE APPLICATION OF AMOCO PRODUCTION COMPANY, FOR ADMINISTRATIVE APPROVAL OF THE ARE W2-10 WELL, LOCATED IN SECTION 2, TOWNSHIP 3 NORTH, RANGE 7 EAST, SUMMIT COUNTY, UTAH, AS A CLASS II GAS INJECTION WELL.

THE STATE OF UTAH TO ALL INTERESTED PARTIES IN THE ABOVE ENTITLED MATTER.

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Maximum Estimated Surface Pressure: 6100 psig
Maximum Estimated Gas Injection Rate: 50 MMSCFD

Approval of 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 the Division of Oil, Gas and Mining, Attention: UIC Program Manager, 355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Utah 84180-1203.

DATED this 29th day of August, 1985.

STATE OF UTAH
DIVISION OF OIL,
GAS AND MINING
MARJORIE L. ANDERSON
Administrative Assistant

N-2

Cheryl Gierloff

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That the legal notice of which a copy is attached hereto

Cause No. UIC-068 Application of AMOCO

Production Company

was published in said newspaper on

September 11, 1985

Cheryl Gierloff
Legal Advertising Clerk

Subscribed and sworn to before me this 2nd day of

October A.D. 19 85

Notary Public

My Commission Expires

March 1, 1988

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

March 25, 1986

Amoco Production Company
P.O. Box 829
Evanston, Wyoming 82930

Gentlemen:

RE: Status of Various Permitted Injection Wells

According to our records, we have not received a notice advising us as to the injection status of the wells listed below.

Anschutz Ranch East W36-14, Sec. 36, T4N, R7E, Summit County, Utah
Anschutz Ranch East W29-02, Sec. 29, T4N, R8E, Summit County, Utah
Anschutz Ranch East W2-10, Sec. 2, T3N, R7E, Summit County, Utah

In order to update our records we would appreciate information indicating the status of these wells.

Thank you in advance for your cooperation. If you have any questions please don't hesitate to call or write our office.

Sincerely,

Marlayne Poulsen

Marlayne Poulsen
UIC Secretary

mfp
0054U-1

Amoco Production Company

April 1, 1986

RECEIVED
APR 0 3 1986
DIVISION OF
OIL, GAS & MINING

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

Dear Ms Poulsen:

In reference to your letter of March 25, 1986, "Status of Various Permitted Injection Wells".

The following wells are presently injecting:

A.R.E. W36-14, Sec. 36, T4N, R7E, Summit County, UT

A.R.E. W29-02, Sec. 29, T4N, R7E, Summit County, UT

A.R.E. W2-10, Sec. 2, T3N, R7E, Summit County, UT

Also, the A.R.E. W19-08 has been put on injection since our last correspondence.

Should you have further questions regarding the above wells please contact Dan N. Poulson of this office at 307-789-1700 x 2368.

Thank you,

Louis F. Lozzie

Louis F. Lozzie
Administrative Supervisor

/kg

Amoco Production Company

April 1, 1986

RECEIVED
APR 0 3 1986
DIVISION OF
OIL, GAS & MINING

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

Dear Ms Poulsen:

In reference to your letter of March 25, 1986, "Status of Various Permitted Injection Wells".

The following wells are presently injecting:

A.R.E. W36-14, Sec. 36, T4N, R7E, Summit County, UT

A.R.E. W29-02, Sec. 29, T4N, R7E, Summit County, UT

A.R.E. W2-10, Sec. 2, T3N, R7E, Summit County, UT

Also, the A.R.E. W19-08 has been put on injection since our last correspondence.

Should you have further questions regarding the above wells please contact Dan N. Poulson of this office at 307-789-1700 x 2368.

Thank you,

Louis F. Lozzie

Louis F. Lozzie
Administrative Supervisor

/kg

Amoco Production Company

May 16, 1986

RECEIVED
MAY 21 1986
DIVISION OF
OIL, GAS & MINING

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

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 Anschtuz 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

Well Name	API No.	Legal Description
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-~~12~~16?	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.)

Well Name	API NO.	Legal Description
W31-04	43-043-30165	NWNW, Sec 31, T4N, R8E
W31-06	43-043-30217	SENW, 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 ? 30216	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

R. M. Ramsey
District Admn. Supervisor

/kg

cc: Pam Collier - Amoco Denver

RECEIVED
FEB 23 1989
DIVISION OF
OIL, GAS & MINING

SURVEY REPORT

Amoco Production Company
Anschutz Ranch East, Well No. W2,10
Summit County, Utah

August 19, 1985

43-043-30265
3N 7E 5-2

gyro/data

Gyrodata Services, Inc.
2171-A Portola Road
Ventura, California 93003

805/658-0994

August 21, 1985

Mr. Van Prater
Amoco Production Company
1013 Cheyenne Drive
Evanston, Wyoming 82930

RE: ANSCHUTZ RANCH EAST, WELL NO. W2,10, SUMMIT COUNTY, UTAH

Dear Mr. Van Prater:

Enclosed is one (1) original and six (6) copies of the completed survey for well number W2,10.

Thank you for using Gyrodata and we look forward to serving you in the future.

Sincerely,

GYRODATA SERVICES, INC.

Frank Singleton

Frank Singleton
Operations Manager
Western Division

FS:lf

Enclosures

A Gyrodata Directional Survey

for

AMOCO PROD. COMPANY

ANSCHUTZ RANCH EAST WELL W2,10

SUMMIT COUNTY UTAH

Date Run: 19-AUG-85 9:50: 0

Job Number: CA0885G083

Surveyor: KEN COOPER

Calculation Method: RADIUS OF CURVATURE

Closure Calculated from Well Head Location

Horizontal Coordinates Referenced to Well Head

CONFIDENTIAL

CERTIFIED SURVEY

DATE 20-Aug-85

SIGNATURE Michael P. Con

AMOCO PROD. COMPANY
ANSCHUTZ RANCH EAST WELL W2,10
SUMMIT COUNTY UTAH

CONFIDENTIAL

MEAS DEPTH ft	INCL deg min	BORE HOLE BEARING deg min	VERT DEPTH ft	CLOSURE DISTANCE ft	CLOSURE BEARING deg min	HORIZONTAL COORD feet		DOG-LEG SEVERITY deg/100'
0.0	0 0	N 0 0 E	0.0	0.0	N 0 0 E	.0 N	.0 E	0.00
100.0	0 6	N 18 13 W	100.0	.1	N 18 13 W	.1 N	.0 W	.10
200.0	0 8	S 17 13 W	200.0	.2	N 67 38 W	.1 N	.2 W	.22
300.0	0 19	S 79 45 E	300.0	.2	S 0 34 W	.2 S	.0 W	.36
400.0	0 21	S 85 20 E	400.0	.6	S 61 40 E	.3 S	.6 E	.04
500.0	0 20	N 54 52 E	500.0	1.1	S 81 41 E	.2 S	1.1 E	.23
600.0	0 9	N 10 26 W	600.0	1.2	N 80 9 E	.2 N	1.2 E	.30
700.0	0 6	S 24 48 W	700.0	1.1	N 77 27 E	.2 N	1.1 E	.24
800.0	0 12	S 41 27 E	800.0	1.1	S 88 52 E	.0 S	1.1 E	.19
900.0	0 12	N 69 36 E	900.0	1.4	S 85 51 E	.1 S	1.4 E	.23
1000.0	0 12	N 34 20 W	1000.0	1.5	N 81 36 E	.2 N	1.5 E	.31
1100.0	0 16	N 38 7 W	1100.0	1.4	N 67 21 E	.5 N	1.3 E	.07
1200.0	0 7	S 84 32 W	1200.0	1.2	N 56 31 E	.7 N	1.0 E	.22
1300.0	0 32	N 56 33 E	1300.0	1.4	N 39 20 E	1.1 N	.9 E	.64
1400.0	0 37	N 25 55 E	1400.0	2.3	N 40 8 E	1.8 N	1.5 E	.31
1500.0	0 36	N 20 37 E	1500.0	3.4	N 34 50 E	2.8 N	1.9 E	.06
1600.0	1 10	N 27 17 E	1599.9	4.9	N 31 26 E	4.2 N	2.6 E	.58
1700.0	1 14	N 27 4 E	1699.9	7.0	N 30 10 E	6.1 N	3.5 E	.05
1800.0	1 44	N 39 29 E	1799.9	9.6	N 31 0 E	8.2 N	4.9 E	.59
1900.0	1 44	N 35 57 E	1899.8	12.6	N 32 36 E	10.6 N	6.8 E	.11
2000.0	2 5	N 46 31 E	1999.8	15.9	N 34 24 E	13.1 N	9.0 E	.51
2100.0	2 15	N 48 55 E	2099.7	19.6	N 36 57 E	15.7 N	11.8 E	.18
2200.0	2 18	N 48 20 E	2199.6	23.5	N 38 54 E	18.3 N	14.8 E	.06
2300.0	2 19	N 49 36 E	2299.6	27.5	N 40 22 E	20.9 N	17.8 E	.05
2400.0	2 19	N 48 44 E	2399.4	31.4	N 41 30 E	23.5 N	20.8 E	.04

AMOCO PROD. COMPANY
ANSCHUTZ RANCH EAST WELL W2,10
SUMMIT COUNTY UTAH

CONFIDENTIAL

MEAS DEPTH ft	INCL deg min	BORE HOLE BEARING deg min	VERT DEPTH ft	CLOSURE DISTANCE ft	CLOSURE BEARING deg min	HORIZONTAL COORD feet		DOG-LEG SEVERITY deg/100'
2500.0	2 23	N 50 35 E	2499.4	35.5	N 42 26 E	26.2 N	24.0 E	.11
2600.0	2 26	N 51 12 E	2599.3	39.7	N 43 19 E	28.9 N	27.2 E	.05
2700.0	2 25	N 50 20 E	2699.2	43.9	N 44 3 E	31.6 N	30.5 E	.04
2800.0	2 27	N 52 13 E	2799.1	48.2	N 44 41 E	34.2 N	33.9 E	.09
2900.0	2 21	N 51 3 E	2899.0	52.3	N 45 15 E	36.8 N	37.2 E	.11
3000.0	2 23	N 50 50 E	2998.9	56.5	N 45 40 E	39.5 N	40.4 E	.03
3100.0	2 24	N 50 42 E	3098.8	60.6	N 46 1 E	42.1 N	43.6 E	.02
3200.0	2 29	N 52 33 E	3198.7	64.8	N 46 23 E	44.7 N	46.9 E	.11
3300.0	2 29	N 51 26 E	3298.6	69.1	N 46 44 E	47.4 N	50.3 E	.05
3400.0	2 29	N 50 18 E	3398.5	73.5	N 46 58 E	50.1 N	53.7 E	.05
3500.0	2 32	N 50 45 E	3498.5	77.8	N 47 10 E	52.9 N	57.1 E	.06
3600.0	2 33	N 52 54 E	3598.4	82.3	N 47 25 E	55.7 N	60.6 E	.10
3700.0	2 23	N 49 45 E	3698.3	86.6	N 47 37 E	58.3 N	63.9 E	.22
3800.0	2 21	N 48 59 E	3798.2	90.7	N 47 42 E	61.0 N	67.1 E	.04
3900.0	2 17	N 47 24 E	3898.1	94.7	N 47 43 E	63.7 N	70.1 E	.09
4000.0	2 18	N 49 1 E	3998.0	98.7	N 47 44 E	66.4 N	73.0 E	.07
4100.0	2 18	N 48 58 E	4097.9	102.7	N 47 47 E	69.0 N	76.1 E	0.00
4200.0	2 19	N 48 27 E	4197.9	106.7	N 47 49 E	71.7 N	79.1 E	.03
4300.0	2 25	N 50 24 E	4297.8	110.8	N 47 53 E	74.3 N	82.2 E	.14
4400.0	2 31	N 49 22 E	4397.7	115.2	N 47 57 E	77.1 N	85.5 E	.11
4500.0	2 37	N 49 34 E	4497.6	119.6	N 48 1 E	80.0 N	88.9 E	.09
4600.0	2 42	N 47 57 E	4597.5	124.3	N 48 2 E	83.1 N	92.4 E	.11
4700.0	2 49	N 48 22 E	4697.4	129.1	N 48 3 E	86.3 N	96.0 E	.12
4800.0	2 57	N 48 54 E	4797.2	134.1	N 48 4 E	89.6 N	99.8 E	.15
4900.0	3 15	N 56 28 E	4897.1	139.5	N 48 15 E	92.9 N	104.1 E	.51

AMOCO PROD. COMPANY
ANSCHUTZ RANCH EAST WELL W2,10
SUMMIT COUNTY UTAH

CONFIDENTIAL

MEAS DEPTH ft	INCL deg min	BORE HOLE BEARING deg min	VERT DEPTH ft	CLOSURE DISTANCE ft	CLOSURE BEARING deg min	HORIZONTAL COORD feet		DOG-LEG SEVERITY deg/100'
5000.0	3 19	N 57 51 E	4996.9	145.2	N 48 36 E	96.0 N	108.9 E	.10
5100.0	3 25	N 64 34 E	5096.7	150.9	N 49 5 E	98.8 N	114.0 E	.41
5200.0	3 28	N 65 36 E	5196.6	156.7	N 49 41 E	101.4 N	119.5 E	.08
5300.0	3 16	N 67 40 E	5296.4	162.3	N 50 18 E	103.7 N	124.9 E	.23
5400.0	2 52	N 67 48 E	5396.3	167.4	N 50 50 E	105.7 N	129.8 E	.41
5500.0	2 28	N 67 4 E	5496.1	171.9	N 51 17 E	107.5 N	134.1 E	.39
5600.0	2 9	N 68 3 E	5596.1	175.7	N 51 39 E	109.0 N	137.8 E	.33
5700.0	1 58	N 69 0 E	5696.0	179.2	N 51 59 E	110.4 N	141.2 E	.18
5800.0	1 47	N 67 20 E	5795.9	182.3	N 52 16 E	111.6 N	144.2 E	.20
5900.0	1 36	N 65 33 E	5895.9	185.2	N 52 30 E	112.7 N	146.9 E	.19
6000.0	1 34	N 63 21 E	5995.9	187.9	N 52 40 E	113.9 N	149.4 E	.07
6100.0	1 18	N 61 31 E	6095.8	190.3	N 52 48 E	115.1 N	151.6 E	.26
6200.0	1 10	N 55 24 E	6195.8	192.5	N 52 51 E	116.2 N	153.4 E	.20
6300.0	1 7	N 53 0 E	6295.8	194.5	N 52 52 E	117.4 N	155.0 E	.06
6400.0	1 9	N 50 48 E	6395.8	196.4	N 52 52 E	118.6 N	156.6 E	.05
6500.0	1 6	N 48 2 E	6495.8	198.4	N 52 50 E	119.9 N	158.1 E	.07
6600.0	1 0	N 47 27 E	6595.7	200.2	N 52 47 E	121.1 N	159.4 E	.10
6700.0	0 55	N 48 1 E	6695.7	201.9	N 52 44 E	122.2 N	160.7 E	.08
6800.0	0 50	N 55 46 E	6795.7	203.4	N 52 44 E	123.2 N	161.9 E	.15
6900.0	0 59	N 69 22 E	6895.7	205.0	N 52 48 E	123.9 N	163.3 E	.26
7000.0	0 45	N 54 22 E	6995.7	206.4	N 52 52 E	124.6 N	164.6 E	.32
7100.0	0 35	N 55 12 E	7095.7	207.6	N 52 53 E	125.3 N	165.6 E	.16
7200.0	0 41	S 84 57 E	7195.7	208.6	N 53 0 E	125.6 N	166.6 E	.44
7300.0	0 29	N 51 2 E	7295.7	209.6	N 53 5 E	125.8 N	167.6 E	.47
7400.0	0 37	N 88 29 E	7395.7	210.5	N 53 10 E	126.2 N	168.4 E	.37

AMOCO PROD. COMPANY
ANSCHUTZ RANCH EAST WELL W2,10
SUMMIT COUNTY UTAH

CONFIDENTIAL

MEAS DEPTH ft	INCL deg min	BORE HOLE BEARING deg min	VERT DEPTH ft	CLOSURE DISTANCE ft	CLOSURE BEARING deg min	HORIZONTAL COORD feet		DOG-LEG SEVERITY deg/100'
7500.0	0 18	N 44 25 E	7495.7	211.2	N 53 13 E	126.5 N	169.2 E	.45
7600.0	0 29	N 37 30 E	7595.7	211.9	N 53 10 E	127.0 N	169.6 E	.19
7700.0	0 27	N 53 3 E	7695.7	212.7	N 53 9 E	127.6 N	170.2 E	.13
7800.0	0 15	N 75 3 E	7795.7	213.3	N 53 10 E	127.8 N	170.7 E	.24
7900.0	0 12	N 3 6 W	7895.7	213.6	N 53 9 E	128.1 N	170.9 E	.28
8000.0	0 28	N 25 49 W	7995.7	213.9	N 53 0 E	128.7 N	170.8 E	.29
8100.0	0 57	N 9 1 E	8095.7	214.4	N 52 43 E	129.9 N	170.6 E	.62
8200.0	1 4	N 10 13 W	8195.6	215.5	N 52 21 E	131.6 N	170.6 E	.36
8300.0	1 10	N 11 29 W	8295.6	216.4	N 51 53 E	133.6 N	170.2 E	.10
8400.0	1 11	N 12 24 W	8395.6	217.3	N 51 24 E	135.6 N	169.8 E	.03
8500.0	1 20	N 10 5 W	8495.6	218.3	N 50 53 E	137.7 N	169.4 E	.16
8600.0	1 24	N 10 24 W	8595.5	219.5	N 50 20 E	140.1 N	169.0 E	.06
8700.0	1 27	N 10 45 W	8695.5	220.7	N 49 47 E	142.5 N	168.5 E	.05
8800.0	1 28	N 14 34 W	8795.5	221.9	N 49 12 E	145.0 N	167.9 E	.10
8900.0	1 29	N 18 19 W	8895.5	223.0	N 48 35 E	147.5 N	167.2 E	.10
9000.0	1 28	N 19 51 W	8995.5	223.9	N 47 59 E	149.9 N	166.4 E	.04
9100.0	1 32	N 17 49 W	9095.4	225.0	N 47 22 E	152.4 N	165.5 E	.08
9200.0	1 30	N 19 6 W	9195.4	226.1	N 46 46 E	154.9 N	164.7 E	.05
9300.0	1 35	N 17 58 W	9295.3	227.2	N 46 9 E	157.4 N	163.8 E	.09
9400.0	1 34	N 23 2 W	9395.3	228.3	N 45 30 E	160.0 N	162.9 E	.14
9500.0	1 39	N 19 50 W	9495.3	229.4	N 44 51 E	162.7 N	161.8 E	.12
9600.0	1 46	N 20 18 W	9595.2	230.7	N 44 11 E	165.4 N	160.8 E	.12
9700.0	1 50	N 20 40 W	9695.2	232.1	N 43 29 E	168.4 N	159.7 E	.07
9800.0	1 57	N 19 46 W	9795.1	233.6	N 42 45 E	171.5 N	158.6 E	.12
9900.0	2 1	N 19 47 W	9895.0	235.2	N 42 1 E	174.8 N	157.4 E	.06

AMOCO PROD. COMPANY
ANSCHUTZ RANCH EAST WELL W2,10
SUMMIT COUNTY UTAH

CONFIDENTIAL

MEAS DEPTH ft	INCL deg min	BORE HOLE BEARING deg min	VERT DEPTH ft	CLOSURE DISTANCE ft	CLOSURE BEARING deg min	HORIZONTAL COORD feet		DOG-LEG SEVERITY deg/100'
10000.0	2 10	N 14 59 W	9995.0	237.1	N 41 15 E	178.2 N	156.3 E	.23
10100.0	2 16	N 10 32 W	10094.9	239.4	N 40 30 E	182.0 N	155.5 E	.20
10200.0	2 20	N 1 57 W	10194.8	242.1	N 39 49 E	186.0 N	155.0 E	.35
10300.0	2 25	N 1 4 E	10294.7	245.3	N 39 11 E	190.1 N	155.0 E	.15
10400.0	2 31	N 7 57 E	10394.6	248.8	N 38 37 E	194.4 N	155.3 E	.31
10500.0	2 36	N 10 18 E	10494.6	252.7	N 38 8 E	198.8 N	156.0 E	.14
10600.0	2 36	N 12 13 E	10594.5	256.8	N 37 40 E	203.3 N	156.9 E	.09
10700.0	2 35	N 11 20 E	10694.3	260.9	N 37 14 E	207.7 N	157.9 E	.04
10800.0	2 35	N 10 32 E	10794.3	264.9	N 36 48 E	212.1 N	158.7 E	.04
10900.0	2 41	N 11 20 E	10894.2	269.0	N 36 23 E	216.6 N	159.6 E	.11
11000.0	2 44	N 11 7 E	10994.0	273.3	N 35 58 E	221.2 N	160.5 E	.05
11100.0	2 43	N 9 3 E	11093.9	277.6	N 35 32 E	225.9 N	161.3 E	.10
11200.0	2 47	N 8 50 E	11193.8	281.9	N 35 6 E	230.7 N	162.1 E	.06
11300.0	2 51	N 9 47 E	11293.7	286.3	N 34 40 E	235.5 N	162.9 E	.08
11400.0	2 57	N 8 16 E	11393.5	290.9	N 34 14 E	240.5 N	163.6 E	.13
11500.0	3 26	N 8 30 E	11493.4	295.9	N 33 46 E	246.0 N	164.5 E	.49
11600.0	3 33	N 8 50 E	11593.2	301.4	N 33 16 E	252.0 N	165.4 E	.12
11700.0	3 37	N 9 21 E	11693.0	307.1	N 32 48 E	258.2 N	166.4 E	.08
11800.0	3 38	N 8 53 E	11792.8	312.9	N 32 20 E	264.4 N	167.4 E	.03
11900.0	3 27	N 6 6 E	11892.6	318.6	N 31 52 E	270.6 N	168.2 E	.25
12000.0	3 25	N 6 20 E	11992.5	324.0	N 31 24 E	276.5 N	168.8 E	.03
12100.0	3 8	N 3 5 E	12092.3	329.1	N 30 58 E	282.2 N	169.3 E	.34
12200.0	2 54	N 2 12 E	12192.1	333.7	N 30 32 E	287.5 N	169.5 E	.24
12300.0	2 33	N 1 0 E	12292.0	337.9	N 30 8 E	292.2 N	169.7 E	.36
12400.0	2 22	N 2 52 W	12391.9	341.6	N 29 46 E	296.5 N	169.6 E	.25

AMOCO PROD. COMPANY
ANSCHUTZ RANCH EAST WELL W2,10
SUMMIT COUNTY UTAH

CONFIDENTIAL

MEAS DEPTH ft	INCL deg min	BORE HOLE BEARING deg min	VERT DEPTH ft	CLOSURE DISTANCE ft	CLOSURE BEARING deg min	HORIZONTAL COORD feet		DOG-LEG SEVERITY deg/100'
12500.0	2 11	N 3 43 W	12491.9	344.9	N 29 25 E	300.4 N	169.4 E	.18
12600.0	1 52	N 7 12 W	12591.8	347.8	N 29 5 E	304.0 N	169.0 E	.33
12700.0	1 49	N 8 54 W	12691.7	350.4	N 28 46 E	307.2 N	168.6 E	.08
12800.0	2 21	N 6 20 W	12791.7	353.3	N 28 25 E	310.8 N	168.1 E	.55
12900.0	2 39	N 1 17 W	12891.6	357.0	N 28 2 E	315.1 N	167.8 E	.36
13000.0	2 42	N 0 44 W	12991.5	361.1	N 27 41 E	319.8 N	167.7 E	.05
13100.0	1 59	N 14 2 E	13091.4	364.9	N 27 27 E	323.8 N	168.2 E	.92
13200.0	2 8	N 59 48 E	13191.3	368.4	N 27 32 E	326.6 N	170.3 E	1.61
13300.0	5 52	N 84 43 E	13291.1	373.3	N 28 17 E	328.7 N	176.9 E	4.03
13400.0	7 24	N 84 46 E	13390.4	379.8	N 29 44 E	329.8 N	188.4 E	1.52
13500.0	9 21	N 88 14 E	13489.3	388.0	N 31 32 E	330.7 N	202.9 E	2.02
13600.0	10 32	N 88 34 E	13587.8	397.7	N 33 37 E	331.2 N	220.2 E	1.19
13700.0	12 15	N 89 21 E	13685.8	409.2	N 35 54 E	331.5 N	239.9 E	1.72
13800.0	14 7	N 88 46 E	13783.2	423.3	N 38 22 E	331.9 N	262.7 E	1.87
13900.0	16 6	S 89 42 E	13879.7	440.1	N 41 1 E	332.1 N	288.8 E	2.03
14000.0	18 59	S 86 33 E	13975.1	459.7	N 43 55 E	331.1 N	318.9 E	3.03
14100.0	21 39	S 83 53 E	14068.9	482.4	N 47 7 E	328.2 N	353.5 E	2.81
14200.0	22 46	S 83 6 E	14161.4	507.8	N 50 22 E	323.9 N	391.1 E	1.17
14300.0	22 42	S 81 4 E	14253.7	534.7	N 53 25 E	318.6 N	429.3 E	.79
14400.0	23 43	S 80 27 E	14345.6	562.8	N 56 18 E	312.3 N	468.2 E	1.04
14500.0	25 24	S 79 51 E	14436.5	593.6	N 59 4 E	305.2 N	509.2 E	1.70
14600.0	26 53	S 78 59 E	14526.3	627.3	N 61 44 E	297.1 N	552.5 E	1.54
14700.0	28 3	S 78 7 E	14615.0	663.4	N 64 17 E	288.0 N	597.7 E	1.23
14800.0	28 30	S 77 17 E	14703.1	701.3	N 66 40 E	277.9 N	644.0 E	.60
14900.0	29 31	S 76 47 E	14790.5	741.0	N 68 53 E	267.0 N	691.2 E	1.06

AMOCO PROD. COMPANY
ANSCHUTZ RANCH EAST WELL W2,10
SUMMIT COUNTY UTAH

CONFIDENTIAL

MEAS DEPTH ft	INCL deg min	BORE HOLE BEARING deg min	VERT DEPTH ft	CLOSURE DISTANCE ft	CLOSURE BEARING deg min	HORIZONTAL COORD feet		DOG-LEG SEVERITY deg/100'
15000.0	31 43	S 75 22 E	14876.6	783.2	N 71 1 E	254.7 N	740.6 E	2.32
15100.0	32 24	S 76 45 E	14961.3	828.3	N 73 1 E	241.9 N	792.2 E	1.00
15200.0	31 43	S 80 40 E	15046.1	875.4	N 74 40 E	231.5 N	844.2 E	2.19
15300.0	31 37	S 83 22 E	15131.2	923.8	N 75 57 E	224.3 N	896.2 E	1.42

Final Station Closure: 923.8 feet North 75 deg 57 min 3 sec East

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

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

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.

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,

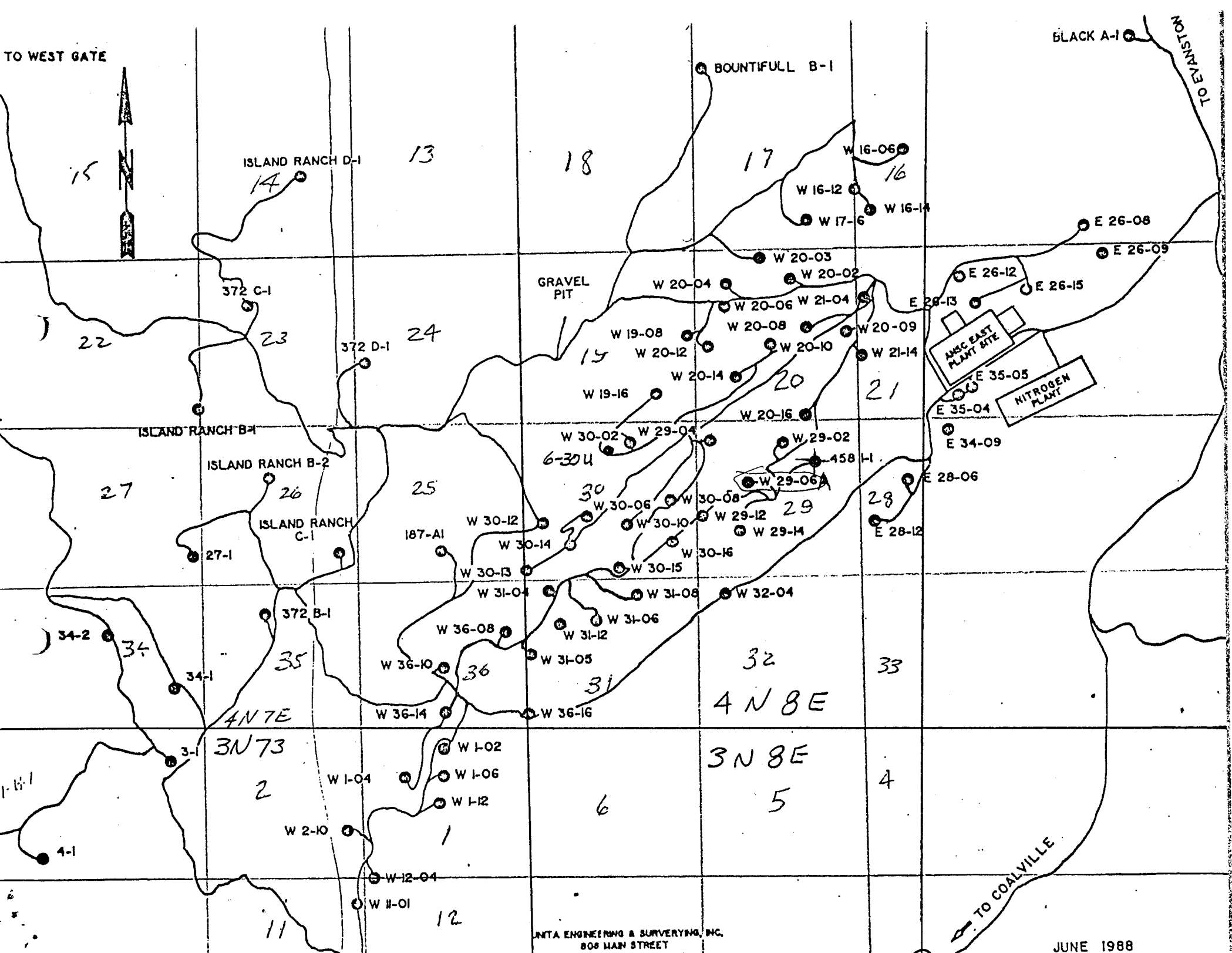
Gil Hunt

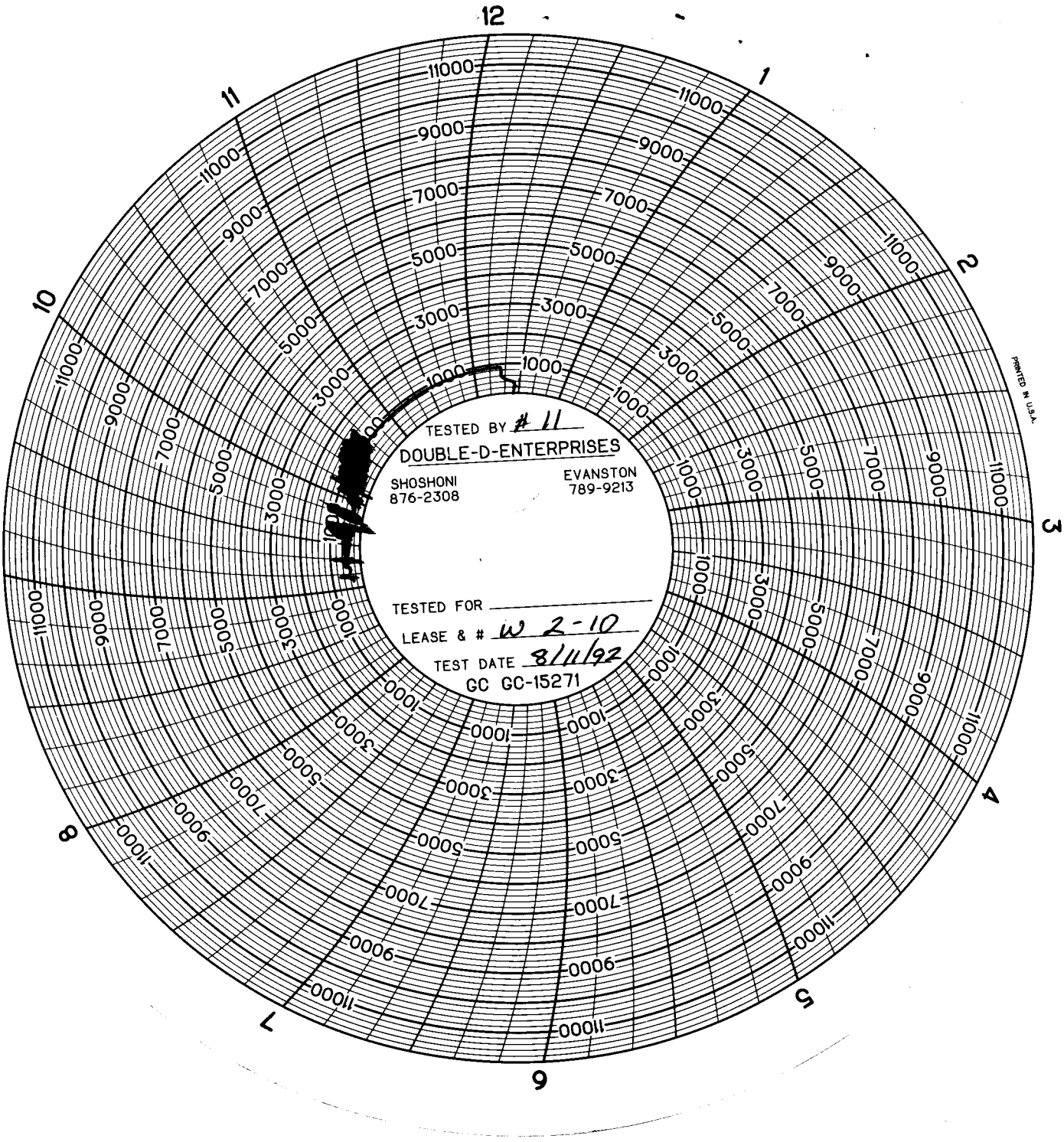
Gil Hunt
UIC Program Manager

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-1
TO EVANSTON
BOUNTIFULL B-1
ISLAND RANCH D-1
372 C-1
372 D-1
GRAVEL PIT
ISLAND RANCH B-1
ISLAND RANCH B-2
ISLAND RANCH C-1
27-1
187-A1
372 B-1
34-2
34-1
3-1
4-1
W 16-06
W 16-12
W 16-14
W 17-6
W 20-03
W 20-02
W 20-04
W 20-06
W 21-04
W 20-08
W 20-09
W 20-10
W 21-14
W 19-08
W 20-12
W 20-14
W 19-16
W 20-16
W 30-02
W 29-04
W 29-02
458 I-1
W 29-06
W 30-06
W 30-08
W 29-12
W 29-14
W 30-10
W 30-16
W 30-12
W 30-14
W 30-13
W 30-15
W 31-04
W 31-08
W 32-04
W 31-06
W 31-12
W 36-08
W 31-05
W 36-10
W 36-14
W 36-16
W 1-02
W 1-04
W 1-06
W 1-12
W 2-10
W-12-04
W 11-01
E 26-08
E 26-09
E 26-12
E 26-15
E 26-13
ANSC EAST PLANT SITE
NITROGEN PLANT
E 35-05
E 35-04
E 34-09
E 28-06
E 28-12
TO COALVILLE
JUNTA ENGINEERING & SURVEYING, INC.
808 MAIN STREET
JUNE 1988


TESTED BY #11
DOUBLE-D-ENTERPRISES
SHOSHONI
876-2308
EVANSTON
789-9213
TESTED FOR
LEASE & # W 2-10
TEST DATE 8/11/92
GC GC-15271
PRINTED IN U.S.A.

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: 43-043-30265 WELL NAME/NUMBER: AREU # W 02-10

SECTION: 2 TOWNSHIP: 3N RANGE: 7E

INITIAL CONDITIONS:

TUBING - rate: ____ pressure: 4750

CASING/TUBING ANNULUS - pressure: 150

CONDITIONS DURING TEST:

TUBING pressure: 4750 psi for 15 minutes

CASING/TUBING ANNULUS pressure: 1050 psi 15 min

annulus pressure drop during test: None psi

CONDITIONS AFTER TEST:

TUBING pressure: 4750 psi

CASING/TUBING ANNULUS pressure: 150 psi

REMARKS:

OK

Russell L. Grasinger
OPERATOR REPRESENTATIVE

John Baza
DOGM WITNESS

STATE OF UTAH
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

INJECTION WELL - PRESSURE TEST

Test Date: 11/13/97 Well Owner/Operator: AMOCO ROCKMONT CO.

Disposal Well: _____ Enhanced Recovery Well: _____ Other: GIW

API No.: 43-043-30265 Well Name/Number: ANSCHUTZ RANCH EAST W 2-10

Section: 2 Township: 3N Range: 7E

Initial Conditions:

Tubing - Rate: Shut in Pressure: 3700 psi

Casing/Tubing Annulus - Pressure: 550 psi

Conditions During Test:

Time (Minutes)	Annulus Pressure	Tubing Pressure
0	1200	3700
5	1200	3700
10	1200	3700
15	1200	3700
20		
25		
30		

Results: Pass/Fail

Conditions After Test:

Tubing Pressure: 3700 psi

Casing/Tubing Annulus Pressure: 550 psi

REMARKS:

_____

_____

_____

_____
Operator Representative

JIM THOMPSON Date: 11/13/97
DOGM Witness

Division of Oil, Gas and Mining

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):	**TO:** (New Operator):
AMOCO PRODUCTION COMPANY	BP AMERICA PRODUCTION COMPANY
Address: 501 WESTLAKE PARK BLVD	Address: 501 WESTLAKE PARK BLVD
HOUSTON, TX 77079	HOUSTON,TX 77079
Phone: 1-(281)-366-5328	Phone: 1-(281)-366-5328
Account N0050	Account N1990

CA No. **Unit:**

WELL(S)

NAME	API NO.	ENTITY NO.	SEC. TWN RNG	LEASE TYPE	WELL TYPE	WELL STATUS
ANSCHUTZ RANCH EAST W2-10	43-043-30265	99990	02-3N-7E	FEE	GIW	A
ISLAND RANCH C-1	43-043-30139	99990	26-4N-7E	FEE	SWD	A
ANSCHUTZ RANCH EAST W30-12A	43-043-30248	99990	30-4N-7E	FEE	GIW	A
ANSCHUTZ RANCH EAST 34-2	43-043-30106	99990	34-4N-7E	FEE	SWD	A
ANSCHUTZ RANCH EAST W19-08	43-043-30272	99990	19-4N-8E	FEE	GIW	A

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
3. The new company has been checked through the **Department of Commerce, Division of Corporations Database on:** 12/14/2001

4. Is the new operator registered in the State of Utah: YES Business Number: PENDING

5. If **NO**, the operator was contacted contacted on: N/A

6. **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

7. **Federal and Indian Units:** The BLM or BIA has approved the successor of unit operator for wells listed on: N/A

8. **Federal and Indian Communization Agreements ("CA"):** The BLM or the BIA has approved the operator change for all wells listed involved in a CA on: N/A

9. **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: 12/18/2001

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database on:** 12/14/2001

2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** 12/14/2001

3. Bond information entered in RBDMS on: 12/11/2001

4. Fee wells attached to bond in RBDMS on: 12/18/2001

STATE BOND VERIFICATION:

1. State well(s) covered by Bond No.: N/A

INDIAN BOND VERIFICATION:

1. Indian well(s) covered by Bond No.: N/A

FEDERAL BOND VERIFICATION:

1. Federal well(s) covered by Bond No.: N/A

FEE WELLS - BOND VERIFICATION/LEASE INTEREST OWNER NOTIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed has furnished a bond: 103172911249

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

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: 12/19/2001

COMMENTS:

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

UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

Well Name and Number ANSCHUTZ RANCH EAST W2-10	API Number 043-30265
Location of Well Footage : 1959 S 1463 E QQ, Section, Township, Range: NWSE 2 3N 7E	County : SUMMIT State : UTAH
	Field or Unit Name Anschutz Ranch East
	Lease Designation and Number

EFFECTIVE DATE OF TRANSFER: 12/31/2001

CURRENT OPERATOR

Company: AMOCO PRODUCTION COMPANY
Address: 501 WESTLAKE PARK BLVD
city HOUSTON state TX zip 77079
Phone: (281) 366-5328
Name: ALAN WOOD
Signature:
Title: REGULATORY ENGINEER
Date: 12/6/2001
Comments: NAME CHANGE FROM AMOCO PRODUCTION COMPANY TO BP AMERICA PRODUCTION COMPANY

NEW OPERATOR

Company: BP AMERICA PRODUCTION COMPANY
Address: 501 WESTLAKE PARK BLVD
city HOUSTON state TX zip 77079
Phone: (281) 366-5328
Name: ALAN WOOD
Signature:
Title: REGULATORY ENGINEER
Date: 12/6/2001
Comments: NAME CHANGE FROM AMOCO PRODUCTION COMPANY TO BP AMERICA PRODUCTION COMPANY

(This space for State use only)

Transfer approved by:
Title: Tech. Services Manager
Approval Date: 12-18-01

Comments:

RECEIVED
DEC 13 2001
DIVISION OF
OIL, GAS AND MINING

(5/2000)

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:

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME: See Attached

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER See Attached

8. WELL NAME and NUMBER: See Attached

2. NAME OF OPERATOR: Amoco Production Company

9. API NUMBER: Attached

3. ADDRESS OF OPERATOR: 501 Westlake Park Blvd CITY Houston STATE TX ZIP 77079

PHONE NUMBER: (281) 366-5328

10. FIELD AND POOL, OR WILDCAT: See Attached

4. LOCATION OF WELL

FOOTAGES AT SURFACE: See Attached

COUNTY: See Attached

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

STATE: UTAH

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

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

TITLE Regulatory Engineer

SIGNATURE

DATE 12/11/2001

(This space for State use only)

RECEIVED
DEC 13 2001
DIVISION OF
OIL, GAS AND MINING

(5/2000)

(See Instructions on Reverse Side)

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.

[Corporate Seal]

M. S. Haskins

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

(Notary Seal)

DENISE ROBERTSON
Notary Public, State of Texas
My Commission Expires
October 12, 2004

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

API Well Number	Operator	Well Name	Well Type	Well Status	Field Name	Sec	Twp-Rng
43-043-30220-00-00	AMOCO PRODUCTION CO	ANSCHUTZ RANCH EAST W20-12	Gas Well	Shut_In	ANSCHUTZ RANCH EAST	20	4N-8E
43-043-30226-00-00	AMOCO PRODUCTION CO	ARE E28-06	Gas Well	Producing Well	ANSCHUTZ RANCH EAST	28	4N-8E
43-043-30227-00-00	AMOCO PRODUCTION CO	ANSCHUTZ RANCH EAST W36-10	Gas Well	Producing Well	ANSCHUTZ RANCH EAST	36	4N-7E
43-043-30228-00-00	AMOCO PRODUCTION CO	ANSCHUTZ RANCH EAST W20-02	Gas Well	Shut_In	ANSCHUTZ RANCH EAST	20	4N-8E
43-043-30229-00-00	AMOCO PRODUCTION CO	ANSCHUTZ RANCH EAST W20-10	Gas Well	Producing Well	ANSCHUTZ RANCH EAST	20	4N-8E
43-043-30231-00-00	AMOCO PRODUCTION CO	ANSCHUTZ RANCH EAST W16-12	Gas Well	Shut_In	ANSCHUTZ RANCH EAST	16	4N-8E
43-043-30238-00-00	AMOCO PRODUCTION CO	ANSCHUTZ RANCH EAST W20-04	Gas Well	Shut_In	ANSCHUTZ RANCH EAST	20	4N-8E
43-043-30248-00-00	AMOCO PRODUCTION CO	ANSCHUTZ RANCH EAST W30-12A	GIW	Active Well	ANSCHUTZ RANCH EAST	30	4N-8E
43-043-30250-00-00	AMOCO PRODUCTION CO	ANSCHUTZ RANCH EAST W29-06A	Gas Well	Producing Well	ANSCHUTZ RANCH EAST	29	4N-8E
43-043-30251-00-00	AMOCO PRODUCTION CO	ANSCHUTZ RANCH EAST W29-14A	Gas Well	Producing Well	ANSCHUTZ RANCH EAST	29	4N-8E
43-043-30255-00-00	AMOCO PRODUCTION CO	ANSCHUTZ RANCH EAST W36-14	Gas Well	Shut_In	ANSCHUTZ RANCH EAST	36	4N-7E
43-043-30257-00-00	AMOCO PRODUCTION CO	ANSCHUTZ RANCH EAST E28-12	Gas Well	Producing Well	ANSCHUTZ RANCH EAST	28	4N-8E
43-043-30265-00-00	AMOCO PRODUCTION CO	ANSCHUTZ RANCH EAST W2-10	GIW	Active Well	ANSCHUTZ RANCH EAST	2	3N-7E
43-043-30270-00-00	AMOCO PRODUCTION CO	ANSCHUTZ RANCH EAST W01-04	Gas Well	Shut_In	ANSCHUTZ RANCH EAST	1	3N-7E
43-043-30271-00-00	AMOCO PRODUCTION CO	ANSCHUTZ RANCH EAST W01-12	Gas Well	Shut_In	ANSCHUTZ RANCH EAST	1	3N-7E
43-043-30272-00-00	AMOCO PRODUCTION CO	ANSCHUTZ RANCH EAST W19-08	GIW	Active Well	ANSCHUTZ RANCH EAST	19	4N-8E
43-043-30273-00-00	AMOCO PRODUCTION CO	ANSCHUTZ RANCH EAST W30-06	Gas Well	Shut_In	ANSCHUTZ RANCH EAST	30	4N-8E
43-043-30277-00-00	AMOCO PRODUCTION CO	ANSCHUTZ RANCH EAST W11-1	Gas Well	Shut_In	ANSCHUTZ RANCH EAST	11	3N-7E
43-043-30279-00-00	AMOCO PRODUCTION CO	ANSCHUTZ RANCH EAST W30-13	Gas Well	Shut_In	ANSCHUTZ RANCH EAST	25	4N-7E
43-043-30280-00-00	AMOCO PRODUCTION CO	ANSCHUTZ RANCH EAST W31-05	Gas Well	Producing Well	ANSCHUTZ RANCH EAST	31	4N-8E
43-043-30283-00-00	AMOCO PRODUCTION CO	ANSCHUTZ RANCH EAST W12-04	Gas Well	Producing Well	ANSCHUTZ RANCH EAST	2	3N-7E
43-043-30286-00-00	AMOCO PRODUCTION CO	ANSCHUTZ RANCH EAST W20-09	Gas Well	Producing Well	ANSCHUTZ RANCH EAST	20	4N-8E
43-043-30291-00-00	AMOCO PRODUCTION CO	ANSCHUTZ RANCH EAST W20-03	Gas Well	Shut_In	ANSCHUTZ RANCH EAST	20	4N-8E

Division of Oil, Gas and Mining
PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

☑ Well File ARE W2-10
ARE W19-08
ARE W30-12A

(Loc.) Sec____ Twp____ Rng____

(API No.) Anschutz Ranch East Unit (3) GIW's

☐ Suspense
(Return Date) _____
(To-Initials) _____

☐ Other

1. Date of Phone Call: 2-5-03 Time: 10:20

2. DOGM Employee (name) L. Cordova (☑ Initiated Call)
Talked to:
Name Gill Webb (☐ Initiated Call) - Phone No. (281) 366-4617
of (Company/Organization) BP America Prod. Co.

3. Topic of Conversation: MIT's due, intent to resume injection (S1 2/99) or intent to PA? Request for updated info. regarding operator's future plans.
(MIT's will be scheduled at a later date if necessary per Admin.)

4. Highlights of Conversation:
msg.
2-6-03 Chad Yelverton 281-366-5407

BP will file updated info. regarding the above (3) S1 GIW's. He thinks BP will not be resuming GI and will most likely plan on plugging the wells in the near future. (this year)

From: Lisha Cordova
To: Brad Hill; Dan Jarvis; Dustin Doucet; Gil Hunt
Date: 2/6/03 9:32AM
Subject: BP America

Hi guys,

FYI.....

I just spoke with Chad ~~Overton~~ Yelverton with BP regarding (3) SI GIW's in the Anschutz Ranch East Unit. The wells have been SI since 2/99, the last paperwork filed by Amoco was in 1992, and MIT's are due. BP plans to send us updated info. on these wells along with info. regarding future plans.

Chad thinks that BP will not resume GI, and will most likely plug & abandon them in the near future (this year).

I will let you know when official paperwork is received or if you get it first, let me know.

Thank you!

2-7-03 Chris Lee
working on paperwork. she mentioned that BP America has put up "AFE Unit" for sale.
We discussed AFE W2-10, well sign stated potential casing problem". She will look into and call back Monday 2-10-03.
Referred her to Dustin regarding wells SI, 5 or more years.

2-19-03
Paperwork for (3) SI GIW's in progress. They will probably ask for SI extensions. Op. will still need to demonstrate mechanical integrity on the wells.

From: "Kristina Lee" <lee90@attbi.com>
To: <lishacordova@utah.gov>
Date: 2/20/03 1:59PM
Subject: BP injection wells

I looked up your email and thought I would type you a little note. This way we can correspond like this too.

Can you send me copies of these sundries and or/letters that get addressed back to the field. Sometimes they get lost and I would like to make sure these are followed up on. I put the field address on the form for legal purposes. My address is: 9070 Hoyt Street, Westminster, Colorado 80021. Even a copy by email would be great if that would be easier for you. It works well with the other agencies I work with to send original to the field and a copy for me.

Thank you for all your help. I will keep plugging along on the rest of the wells from Dustin.

Kris Lee

303-423-5749 wk

303-422-6749 fax

lee90@attbi.com

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: NA
7. UNIT or CA AGREEMENT NAME: ANSCHUTZ RANCH EAST
8. WELL NAME and NUMBER: ARE W02-10
9. API NUMBER: 4304330265
10. FIELD AND POOL, OR WILDCAT: ANSCHUTZ RANCH EAST

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ OTHER _____
2. NAME OF OPERATOR: BP AMERICA PRODUCTION COMPANY SUITE A
3. ADDRESS OF OPERATOR: 1013 CHEYENNE DR. CITY EVANSTON STATE WY ZIP 82930 PHONE NUMBER: (303) 423-5749
4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1959 FSL, 1463 FEL COUNTY: SUMMIT
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWSE 2 3N 7E STATE: UTAH

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

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

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

The above well was part of an injection operation from the mid 1980's until the late 1990's, at which point it was shut in as part of the Plan of Depletion (blowdown). Attempts were made to produce the W02-10 in 2000 with no success. The well has been shut in since and has not been plugged and abandoned due to potential for future intervention. Our plan is to hold these wells in Temporarily Abandoned status approximately two to five years until potential for uphole development is verified or eliminated. Upon eliminatation of potential, the wells will be plugged and abandoned. As For mechanical integrity: this well has packers installed and casing pressure is monitored by our field personnel. The wellhead valves are also on a regular PM for greasing and testing.

RECEIVED
FEB 27 2003
DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) Kristina A.Lee TITLE Regulatory Specialist
SIGNATURE Kristina Lee DATE 2/20/2003

(This space for State use only)
This injection well had an MIT performed on November 13, 1997. In accordance with R649-3-36, good cause has been shown for an extension of shut-in time until April 1, 2008, conditioned upon the well passing the MIT scheduled for April 2003.

APPROVED BY: _____ March 6, 2003
Utah Division of Oil, Gas and Mining

(5/2000) (See Instructions on Reverse Side)

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
(801) 359-3940 fax
(801) 538-7223 TTY
www.nr.utah.gov

Michael O. Leavitt
Governor
Robert L. Morgan
Executive Director
Lowell P. Braxton
Division Director

March 5, 2003

Chad Yelverton
BP America Production Company
1013 Cheyenne Drive, Suite A
Evanston, Wyoming 82930

Re: Pressure Test for Mechanical Integrity, ARE W2-10 Well, Section 2, Township 3 North, Range 7 East, API No. 43-043-30265, Summit County, Utah

Dear Mr. Yelverton:

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. Rule R649-5-5.3 of the Oil and Gas Conservation General Rules 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 once in every five-year period beginning in October 1982. Please make arrangements and ready the well for testing in April 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.

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 me at (801) 538-5296 to arrange a meeting date, time, and place in April or negotiate a different date, if this one is unacceptable.

Sincerely,

Lisha Cordova

Lisha Cordova
Petroleum Technician

lc
cc: Gil Hunt, Environmental Manager
BP America Production Company, Kristina A. Lee, Colorado Office
Well File

From: Lisha Cordova
To: "lee90@attbi.com".MAIL.MNET
Date: 4/2/03 9:51AM
Subject: Re: questions

Hi Kris,

I have not received a call from BP yet regarding a meeting date for witnessing the MIT's for the ARE W02-10, ARE W19-08, and ARE W30-12A, shut-in gas injection wells. Is BP planning to pre-test the wells before we come out to witness? If not, we need to witness those tests.

If a chart is run during the MIT then it would be great if you could send a copy of the chart along with a sundry in follow-up to the test. Contractors usually perform the work for the operator, then turn over the information to the operator. I have not seen reports/charts come directly from the contractor.

If no chart is run, then no follow-up is required. Division staff will be on location witnessing the test and will record the information.

Thank you for your help, I really appreciate it! If you have any other questions, please contact me.

Lisha
(801)538-5296

>>> "Kristina Lee" <lee90@attbi.com> 04/02/03 06:18AM >>>

Hi Lisha,Had a question on the injection wells that they are scheduled to do Mechanical integrity tests on soon. Do I need to file a follow up sundry with the test attached or what is the usual procedure? I didn't know if the company who did them sent them directly to you or I send them along with my sundry. Thanks, hopefully this is not a dumb question. **Kris Lee303-423-5749 wk303-422-6749 faxlee90@attbi.com**

* 4-3-02 Stacy Swingle (Cell 307-679-3112) BP America
MIT's scheduled for May 2003.
Two of the wells are difficult to get to due to weather conditions.

* 5 5-03 all of the wells have been pre-tested and are ready for MIT witnessing by DOGM. (Stacy / BP America)
MIT's scheduled for 5-8-03 / 8:00 a.m.

INSPECTION FORM 6

STATE OF UTAH
DIVISION OF OIL GAS AND MINING

INJECTION WELL - PRESSURE TEST

Well Name: ARE W2-10 API Number: 43-043-30265

Qtr/Qtr: NWSE Section: 2 Township: 3N Range: 7E

Company Name: BP America Prod. Co.

Lease: State____ Fee ✓ Federal____ Indian____

Inspector: L Cordova, D Jarvis Date: ____

Initial Conditions:

Tubing - Rate: ____ Pressure: 750 psi

Casing/Tubing Annulus - Pressure: Ø psi

Conditions During Test:

Time (Minutes)	Annulus Pressure	Tubing Pressure
0	1000	
5	↓	
10	↓	
15	1000	
20		
25		
30		

Results: Pass/Fail

Conditions After Test:

Tubing Pressure: 750 psi

Casing/Tubing Annulus Pressure: 500 psi

COMMENTS: Double Jack Testing (WYO)
Chart Recorder

[signature]
Operator Representative

Division of Oil, Gas and Mining

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):	**TO:** (New Operator):
N1990-BP America Production Company 501 WestLake Park Blvd Houston, TX 77079 Phone: (281) 366-2000	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 W01-02	01	030N	070E	4304330209	4540	FEE	GW	P
ARE W01-04	01	030N	070E	4304330270	4540	FEE	GW	S
ARE W2-10	02	030N	070E	4304330265	99990	FEE	GI	I
ARE W36-10	36	040N	070E	4304330227	4540	FEE	GW	S
ARE W36-14	36	040N	070E	4304330255	4540	FEE	GW	S
ARE W16-12	16	040N	080E	4304330231	4540	FEE	GW	S
ARE W19-16	19	040N	080E	4304330204	4540	FEE	GW	S
ARE W20-12	20	040N	080E	4304330220	4540	FEE	GW	S
ARE W20-02	20	040N	080E	4304330228	4540	FEE	GW	S
ARE W20-10	20	040N	080E	4304330229	4540	FEE	GW	P
ARE W20-04	20	040N	080E	4304330238	4540	FEE	GW	S
ARE E28-06	28	040N	080E	4304330226	4540	FEE	GW	P
ARE E28-12	28	040N	080E	4304330257	4540	FEE	GW	P
ARE W29-06A	29	040N	080E	4304330250	4540	FEE	GW	P
ARE W29-14A	29	040N	080E	4304330251	4540	FEE	GW	P
ARE W30-10	30	040N	080E	4304330215	4540	FEE	GW	P
ARE W30-15	30	040N	080E	4304330216	4540	FEE	GW	P
ARE W30-02	30	040N	080E	4304330218	4540	FEE	GW	S
ARE W30-12A	30	040N	080E	4304330248	99990	FEE	GI	I
ARE W31-12	31	040N	080E	4304330190	4540	FEE	GW	S
ARE W31-06	31	040N	080E	4304330217	4540	FEE	GW	P

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 7/3/2003
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 7/3/2003
3. The new company was checked on the **Department of Commerce, Division of Corporations Database on:** 8/7/2003
4. Is the new operator registered in the State of Utah: YES Business Number: 1348145-0143
5. If **NO**, the operator was contacted 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: **8/18/2003**

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:

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
(801) 359-3940 fax
(801) 538-7223 TTY
www.nr.utah.gov

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

UIC FORM 5

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

TRANSFER OF AUTHORITY TO INJECT

Well Name and Number ANSCHUTZ RANCH EAST W2-10	API Number 043-30265
Location of Well Footage : 1959 S 1463 E County : SUMMIT QQ, Section, Township, Range: NWSE 2 3N 7E State : UTAH	Field or Unit Name ANSCHUTZ RANCH EAST Lease Designation and Number

EFFECTIVE DATE OF TRANSFER: 7/1/2003

CURRENT OPERATOR

Company: BP AMERICA PRODUCTION COMPANY
Address: 501 WESTLAKE PARK BLVD
city HOUSTON state TX zip 77079
Phone: (281) 366-2000
Comments: CHANGE OF OWNERSHIP

Name: David G. Peterson
Signature: David G. Peterson
Title: Attorney-In-Fact
Date: 6/26/03

NEW OPERATOR

Company: MERIT ENERGY COMPANY
Address: 13727 NOEL ROAD, SUITE 500
city DALLAS state TX zip 75240
Phone: (972) 701-8377
Comments:

Name: Fred N. Dium
Signature: [illegible]
Title: V.P.
Date: 7/1/03

(This space for State use only)

Transfer approved by: [illegible]
Title: Bell. Surface Manager

Approval Date: 8/18/03

Comments:

(5/2000)

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:

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME: See Attached

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER See Attached

8. WELL NAME and NUMBER: See Attached

2. NAME OF OPERATOR: BP America Production Company

9. API NUMBER: Attached

3. ADDRESS OF OPERATOR: 501 WestLake Park Blv CITY Houston STATE TX ZIP 77079 PHONE NUMBER: (281) 366-2000

10. FIELD AND POOL, OR WILDCAT: See Attached

4. LOCATION OF WELL

FOOTAGES AT SURFACE: See Attached

COUNTY: See Attached

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

STATE: UTAH

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

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

(This space for State use only)

RECEIVED
JUL 03 2003
DIV. OF OIL, GAS & MINING

(5/2000)

(See Instructions on Reverse Side)

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	1160	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	1582	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	289	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	491	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	2489	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	1293	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	1649	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	989	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	2291	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	685	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	SENW	1777	N	1686	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	649	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	SENW	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	SENW	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	2089	E
43-043-30229-00-00	BP AMERICA PRODUCTION CO	ARE W20-10	Gas Well	Producing Well	ANSCHUTZ RANCH EAST	SUMMIT	4N-8E	20	SENW	2560	N	2587	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	SENW	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	1789	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	1689	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	391	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

INSPECTION FORM 6

STATE OF UTAH
DIVISION OF OIL GAS AND MINING

INJECTION WELL - PRESSURE TEST

Well Name: ARE W2-10 API Number: 43-043-30265
Qtr/Qtr: NWSE Section: 2 Township: 3N Range: 7E
Company Name: Merit Energy Co.

Lease: State ____ Fee ✓ Federal ____ Indian ____
Inspector: Lisha Cordova Date: 8/19/08

Initial Conditions: Multi-Chem (Evanston Wyo.)

Tubing - Rate: N/A Pressure: N/A psi

Casing/Tubing Annulus - Pressure: Ø psi

Conditions During Test:

Time (Minutes)	Annulus Pressure	Tubing Pressure
0	1000#	N/A
5	1000#	↓
10	1000#	
15	1000#	
20		
25		
30		

Results: (Pass)/Fail

Conditions After Test:

Tubing Pressure: N/A psi

Casing/Tubing Annulus Pressure: Ø psi

COMMENTS: No tbg in hole, CIBP @ 14,792' (Perfs @ 14884-15530')
Csg. backside full at time of test.

Operator Representative

GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

August 1, 2013

Mel Wren
Merit Energy Company
P. O. Box 2760
Evanston, Wyoming 82931

Subject: Pressure Test for Mechanical Integrity, ARE W2-10, NWSE Section 2,Township 3 North, Range 7 East, API No. 43-043-30265, Summit County, Utah

Dear Mr. Wren:

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. Rule R649-5-5.3 of the Oil and Gas Conservation General rules 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. Please make arrangements and get the ARE W2-10 well ready for testing during the week of August 19, 2013, as outlined below:

1. Operator must furnish connections, accurate pressure gauges, hot oil truck (or other means of pressuring annulus), along with personnel to assist in opening valves, etc.

2. The casing-tubing annulus shall be filled prior to the test date to expedite testing, and the 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 well to be tested at this time the test may be rescheduled.

4. Company personnel should meet a DOGM representative(s) at the field office or other location as negotiated.

5. All bradenhead valves with the exception of the tubing on the injection well must be shut-in 24 hours prior to testing.

Please contact Lisha Cordova at (801) 538-5296 to arrange a meeting time and place or to negotiate a different date, if the date(s) specified is unacceptable.

Sincerely,

Dan Jarvis
Operations Manager

DJJ/LC/js
cc: Lisha Cordova, Env. Scientist
Well File

GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

August 1, 2013

Mel Wren
Merit Energy Company
P. O. Box 2760
Evanston, Wyoming 82931

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Sincerely,

Dan Jarvis
Operations Manager

DJJ/LC/js
cc: Lisha Cordova, Env. Scientist
Well File

INSPECTION FORM 6

STATE OF UTAH
DIVISION OF OIL GAS AND MINING

INJECTION WELL - PRESSURE TEST

Well Name: ARE W2-10 API Number: 43-043-30265

Qtr/Qtr: NWSE Section: 2 Township: 3N Range: 7E

Company Name: Merit Energy Company

Lease: State ____ Fee X Federal ____ Indian ____

Inspector: Lisha Cordova Date: 8/21/13

* mt. States Water / Chuck Rees

Initial Conditions:

Tubing - Rate: N/A Pressure: — psi

Casing/Tubing Annulus - Pressure: Ø psi

Conditions During Test:

Time (Minutes)	Annulus Pressure	Tubing Pressure
0	1000 9:12	
5	1000 9:17	
10	1000 9:22	
15	1000 9:27	
20		
25		
30		

Results: Pass/Fail

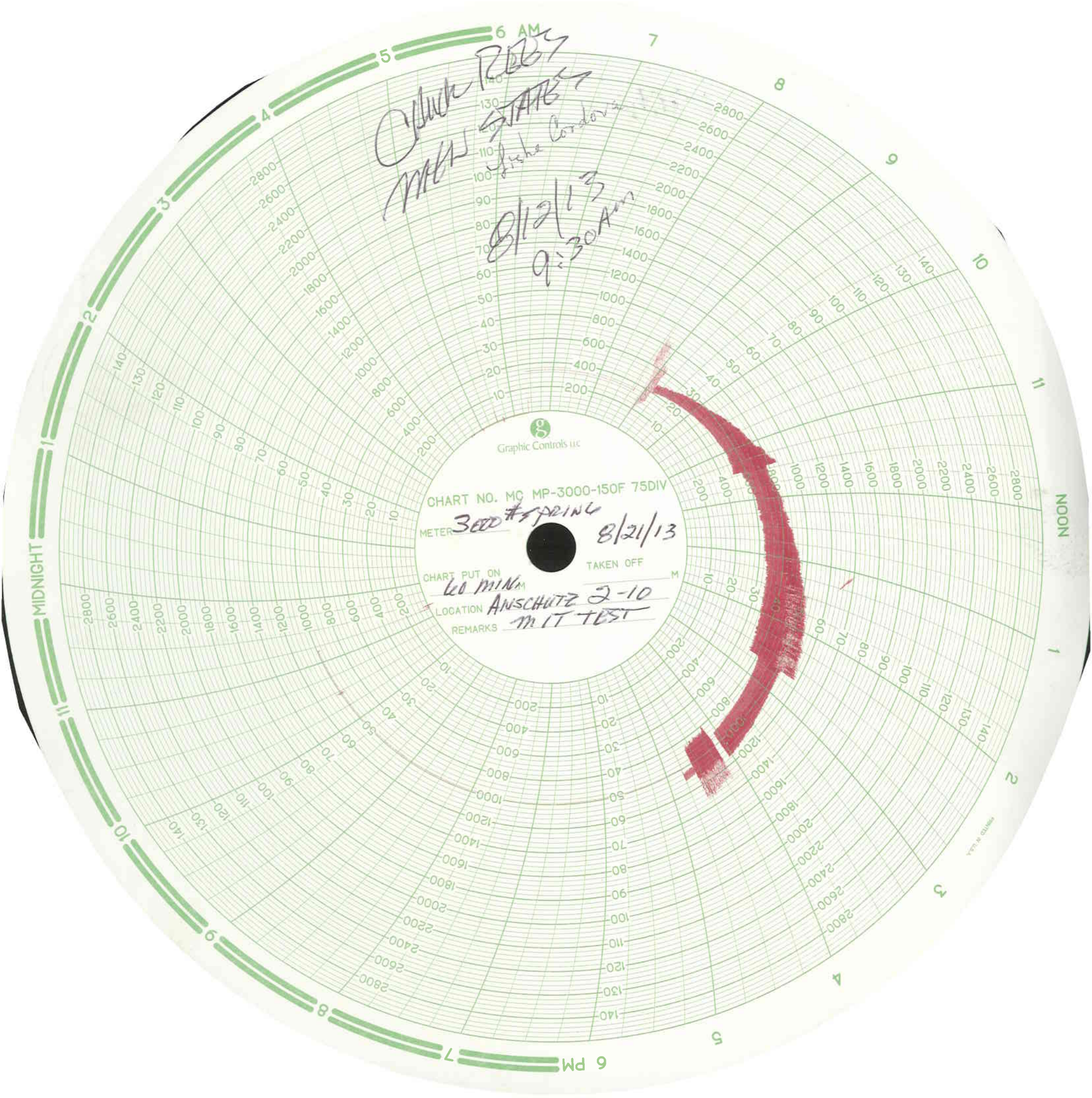
Conditions After Test:

Tubing Pressure: N/A psi

Casing/Tubing Annulus Pressure: Ø psi

COMMENTS: No tubing in hole. Hole loaded with inhibitor fluid, 32 gals to pressure up. CIBP @ 14,792.

Operator Representative



Graphic Controls LLC
CHART NO. MC MP-3000-150F 75DIV
METER 3000 #SPRING
8/21/13
TAKEN OFF
CHART PUT ON
60 MIN
LOCATION ANSCHUTZ 2-10
REMARKS MIT TEST
6 AM
NOON
MIDNIGHT
6 PM

FORM 9

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

5.LEASE DESIGNATION AND SERIAL NUMBER: FEE

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.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: ANSCHUTZ RANCH EAST

1. TYPE OF WELL Gas Injection Well

8. WELL NAME and NUMBER: ARE W2-10

2. NAME OF OPERATOR: MERIT ENERGY COMPANY

9. API NUMBER: 43043302650000

3. ADDRESS OF OPERATOR: 13727 Noel Rd Ste 500 , Dallas, TX, 75240

PHONE NUMBER: 972 628-1540 Ext

9. FIELD and POOL or WILDCAT: ANSCHUTZ RANCH EAST

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1959 FSL 1463 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 02 Township: 03.0N Range: 07.0E 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		
✓ NOTICE OF INTENT Approximate date work will start: 11/14/2015	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	✓ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ SPUD REPORT Date of Spud:	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

Merit Energy request approval to Plug and Abandon the above referenced well according to the attached procedure and WBD's.

Approved by the Utah Division of Oil, Gas and Mining

Date: November 19, 2015

By: Dark K Quist

Please Review Attached Conditions of Approval

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Katherine McClurkan	972 628-1660	Regulatory Analyst
SIGNATURE N/A		**DATE** 11/10/2015

RECEIVED: Nov. 10, 2015

The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Sundry Conditions of Approval Well Number 43043302650000

1. Notify the Division at least 24 hours prior to conducting abandonment operations. Please call Dan Jarvis at 801-538-5338.

2. Add Plug #1: A 100’ cement plug (±20 sx) shall be spotted on CIBP@ 14792’ from ±14792’ to 14692’. This will isolate the open perfs in the Nugget formation as required by R649-3-24-3.2.

3. Amend Plug #3: This plug shall be an inside/outside plug. RIH and perforate 7" @ 10026'. RIH with CICR and set at 9976'. Sting into CICR and establish circulation down the 7" casing back up the 7" x 9 5/8" annulus. M&P 50 sx cement, sting into CICR pump 40sx, sting out and dump 10 sx on top of CICR. This will isolate the Preuss formation.

4. All balanced plugs shall be tagged to ensure that they are at the depth specified.

5. The interval between plugs shall be filled with noncorrosive fluid of adequate density to prevent migration of formation water into or through the well bore (R649-3-24-3.5).

6. Surface reclamation shall be done in accordance with R649-3-34 - Well Site Restoration.

7. All requirements in the Oil and Gas Conservation General Rule R649-3-24 shall apply.

8. If there are any changes to the procedure or the wellbore configuration, notify Dustin Doucet at 801-538-5281 (of c) or 801-733-0983 (home) prior to continuing with the procedure.

9. All other requirements for notice and reporting in the Oil and Gas Conservation general rules shall apply.

RECEIVED: Nov. 19, 2015

11/18/2015

Wellbore Diagram

r263

API Well No: 43-043-30265-00-00 **Permit No:** UIC-068 **Well Name/No:** ARE W2-10

Company Name: MERIT ENERGY COMPANY

Location: Sec: 2 T: 3N R: 7E Spot: NWSE

Coordinates: X: 490084 Y: 4541212

Field Name: ANSCHUTZ RANCH EAST

County Name: SUMMIT

String Information

String	Bottom (ft sub)	Diameter (inches)	Weight (lb/ft)	Length (ft)	Capacity (f/cf)
HOL1	6993	17.5			
SURF	6980	13.325	68		
HOL2	13150	12.25			
I1	13150	9.625	40		
HOL3	15530	8.5			
PROD	15530	7	23		4.524
T1	14700	3.5			
PKR	14700				

9 5/8" x 7" → 6.310
13 3/8" x 9 5/8" → 2.982
12 1/4" x 9 5/8" (108) → 2.062

Plug #6
IN 100' = 20sx
OUT 100'/(1.15)(6.310) = 14sx
100'/(1.15)(2.982) = 30sx
64sx
Propose 75sx ✓ok.

Cement Information

String	BOC (ft sub)	TOC (ft sub)	Class	Sacks
I1	13150	10320	50	200
I1	13150	10320	H	1765
PROD	15530	11766	UK	535
SURF	6980	0	HC	2100
SURF	6980	0	H	600

Plug #5
Below IN 50' = 10sx
OUT 7" - (30sx)(1.15)(4.524) = 156'
9 5/8" - (60sx)(1.15)(2.982) = 205'
Above 30sx)(1.15)(4.524) = 156'
TOC @ 3520 ✓ok

Cement from 6980 ft. to surface
Surface: 13.325 in. @ 6980 ft.
Hole: 17.5 in. @ 6993 ft.

Plug #4
Below IN 50' = 10sx
OUT 7" - (26sx)(1.15)(6.310) = 188'
9 5/8" - (94sx)(1.15)(2.982) = 332'
Above 20sx = 100'
TOC @ 6790' ✓ok.

Perforation Information

Top (ft sub)	Bottom (ft sub)	Shts/Ft	No Shts	Dt Squeeze
14904	15342			

x Amend Plug #3
Perf @ 10,026', CICR @ 9976'
Below IN 50'/(1.15)(4.524) = 10sx, OUT 100'/(1.15)(6.310) = 15sx
Above 50' = 10sx
10,026' to 9926'

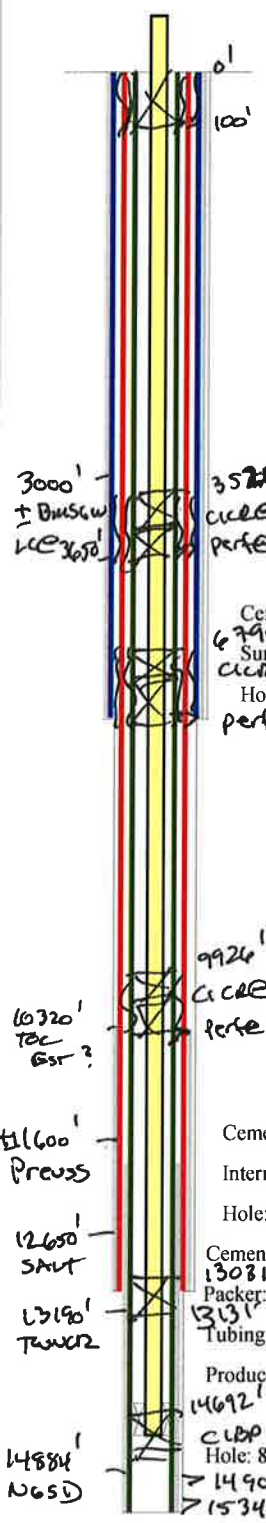
Cement from 13150 ft. to 10320 ft.
Intermediate: 9.625 in. @ 13150 ft.
Hole: 12.25 in. @ 13150 ft.
Cement from 15530 ft. to 11766 ft.
Packer: @ 14700 ft.
Tubing: 3.5 in. @ 14700 ft.
Production: 7 in. @ 15530 ft.
Hole: 8.5 in. @ 15530 ft.

Formation Information

Formation	Depth
BMSW	3000
PREUS	11600
PRES	12650
TWNCR	13190
NGSD	14884

Plug #2
20sx = 100'
TOC @ 13031 ✓ok
13131' to 13031'

x Add Plug #1
100'/(1.15)(4.524) = 20sx
TOC @ 14692' ✓
14792' to 14692'



TD: 15530 **TVD:** **PBTD:** 0

Merit Energy Company
ARE W 02-10
API# 43-043-30265
NW-SE Sec 2 T03N-R07E
1959' FSL & 1463' FEL
Anschutz Field
Summit County, Utah

Plug & Abandoned Well

KB: 7,876'
TD: 15,530'
PBTD: 14,782' (CIBP at 14,792' w/10' of cement on top)
Lat/Long: 41.02205, -111.11794

Perforations:

Nugget – 14,904' to 15,534'

Casing:

Surface: 13-3/8" 68/72# at 6,890' **Hole size:** 17-1/2" **TOC:** Surface
Intermediate: 9-5/8" 40/63# at 13,150' **Hole size:** 12-1/4" **TOC:** 10,320' (CBL)
Production: 7" 23/29# at 15,530' **Hole size:** 9-1/2" **TOC:** 14,080' (CBL)

Procedure:

1. Conduct pre-job safety meeting and complete daily JSA
2. Prior to MIRU, check rig anchors and blow down/kill well if necessary
3. Dig out around wellhead and check surface for pressure
   (If present call Logan Lowenstein #281-235-9207 and Craig Owen #970-646-3933 for orders)
4. MIRU P&A equipment, NDWH, NU BOP
5. PU 14,792' of 2-3/8" 4.7# work string, TIH to existing CIBP at 14,792'
6. Load and circulate wellbore with 580 bbl. water treated with corrosion inhibitor
7. Pressure test casing to 500 psi for 15 minutes
   (If pressure tests fail, call Logan Lowenstein and Craig Owen for orders)
8. TOH and LD to 13,131' (50' below Top of Twin Creek)
9. Pump 20 sxs of 15.8# class G neat 1.15 cu.ft./sack yield cement
   (20 sxs is 104' in 7", TOC: 13,026')
10. TOH and WOC 4 hours, TIH and tag TOC at 13,026' or shallower
11. TOH and LD to 10,026'
12. Pump 20 sxs of 15.8# class G neat 1.15 cu.ft./sack yield cement
    (20 sxs is 104' in 7", TOC: 9,922')
13. TOH and WOC 4 hours, TIH and tag TOC at 9,922' or shallower
14. TOH, Stand back 6,890'
15. RU wireline, TIH and perf casings at 6,940', TOH, RD wireline
16. Establish IR into perfs in 7" x 9-5/8" and 9-5/8" x 13-3/8"
    (If no IR call Logan Lowenstein and Craig Owen for orders)
17. PU 7" 29# CICR, TIH and set at 6,890', Establish IR into CICR

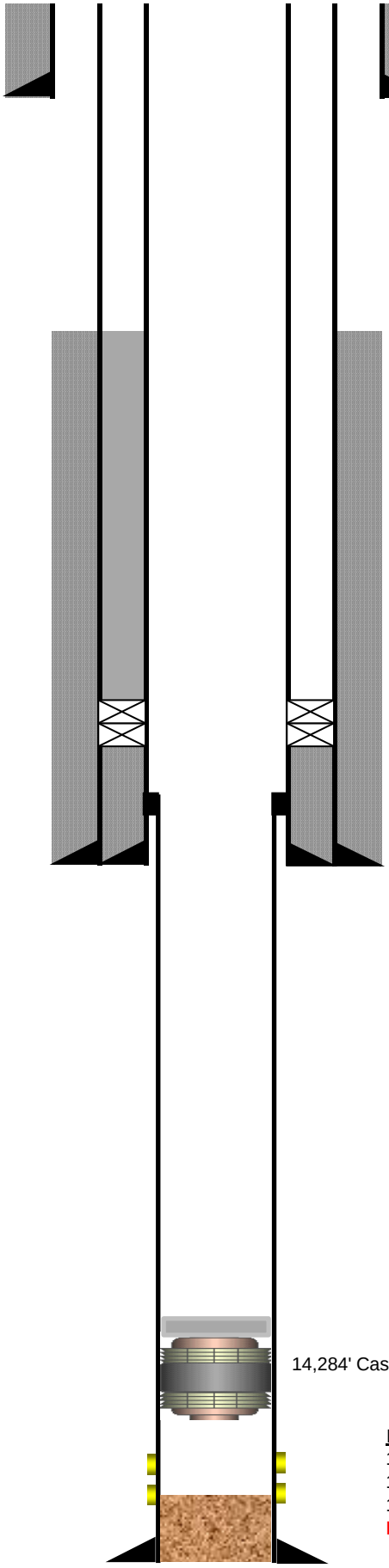
RECEIVED: Nov. 19, 2015

Merit Energy Company
ARE W 02-10
API# 43-043-30265
NW-SE Sec 2 T03N-R07E
1959' FSL & 1463' FEL
Anschutz Field
Summit County, Utah

Plug & Abandoned Well

18. Pump 150 sxs of 15.8# class G neat 1.15 cu.ft./sack yield cement, 130 sxs under and 20 sxs on top 94 sxs in 9-5/8" x 13-3/8", 26 sxs in 7" x 9-5/8", 10 sxs in 7" below CICR, and 20 sxs on top of CICR
    (94 sxs is 331' in 9-5/8" x 13-3/8", 26 sxs is 188' in 7" x 9-5/8", 10 sxs is 52' in 7")
    (20 sxs is 104' in 7", TOC: 6,786')
19. TOH, Stand back 3,674'
20. RU wireline, TIH and perf casings at 3,724', TOH, RD wireline
21. Establish IR into perfs in 7" x 9-5/8" and 9-5/8" x 13-3/8"
22. PU 7" 29# CICR, TIH and set at 3,674', Establish IR into CICR
23. Pump 130 sxs of 15.8# class G neat 1.15 cu.ft./sack yield cement, 100 sxs under and 30 sxs on top 60 sxs in 9-5/8" x 13-3/8", 30 sxs in 7" x 9-5/8", 10 sxs in 7" below CICR, and 30 sxs on top of CICR
    (60 sxs is 211' in 9-5/8" x 13-3/8", 30 sxs is 217' in 7" x 9-5/8", 10 sxs is 52' in 7")
    (30 sxs is 156' in 7", TOC: 3,518')
24. TOH and LD tubing
25. RU wireline, TIH and perforate 7" and 9-5/8" casings at 100', TOH, RD wireline
26. Establish circulation to surface
27. Circulate 75 sxs of 15.8# class G neat 1.15 cu.ft./sack yield cement to surface
28. RDMO, Dig up wellhead and cut off 3' below restored ground level
29. Weld on cap with ID plate, backfill, clean location, P&A complete

RECEIVED: Nov. 19, 2015



WELL NAME:	**ARE W30-12 Current**		FIELD:	**ANSCHUTZ RANCH EAST**	
QTR QTR:		SEC: **30**	TWN: **4N**	RNG: **8E**	
COUNTY:	**SUMMIT**	ST: **UT**	SPUD DATE: **06/03/83**		
KB: **8159**	GL: **8137**	TD: **14800**	PBTD: **14685**		
LAST UPDATED:	**11/03/15**	BY:	**Logan Lowenstein**		

CASING DETAILS

PURPOSE	SIZE	WEIGHT	GRADE	SET DEPTH
SURFACE	13-3/8"	61-88#	S-80, S-95	6123'
INTERMEDIATE	9-5/8", 10-5/8"	53.5-101.4#	HC-95, N-80	12695'
INTERMEDIATE	7-5/8"	39#	P-110	F/11460-12697
PRODUCTION	5"	17.93#	P-110	F/11086-14698
PRODUCTION	7"	32#	N-80, S-95	F/0-11099

TUBING DETAILS

DESCRIPTION	SIZE	WEIGHT	GRADE	SET DEPTH
NA				

WELL HISTORY:

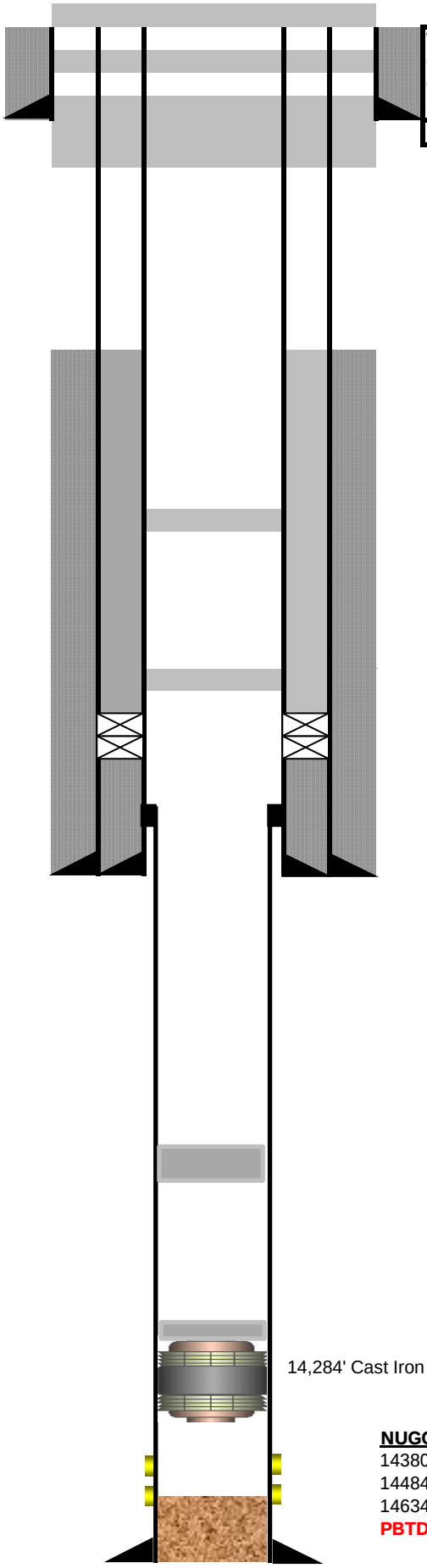
05/05/84	Perf f/ 14380-14484, 4spf 180 phasing w/ TCP
05/07/84	Perf f/ 14484-14564, 4spf 180 phasing w/ casing gun
06/15/84	Convert to injection
04/04/90	Perf f/ 14634-14688, 6 spf 60 phasing
08/06/08	CIBP set at 14,284', dump bail 1 sack on top (14,274')

NUGGET PERFS

14380-484
14484-564
14634-688

PBTD @ 14685' (3' of perfs covered)

RECEIVED: Nov. 19, 2015



WELL NAME:	ARE W30-12 Proposed		FIELD:	ANSCHUTZ RANCH EAST	
QTR QTR:		SEC: 30	TWN: 4N	RNG: 8E	
COUNTY:	SUMMIT	ST: UT	SPUD DATE: 06/03/83		
KB: 8159	GL: 8137	TD: 14800	PBTD: 14685		
LAST UPDATED:	11/03/15	BY:	Logan Lowenstein		

CASING DETAILS

PURPOSE	SIZE	WEIGHT	GRADE	SET DEPTH
SURFACE	13-3/8"	61-88#	S-80, S-95	6123'
INTERMEDIATE	9-5/8", 10-5/8"	53.5-101.4#	HC-95, N-80	12695'
INTERMEDIATE	7-5/8"	39#	P-110	F/11460-12697
PRODUCTION	5"	17.93#	P-110	F/11086-14698
PRODUCTION	7"	32#	N-80, S-95	F/0-11099

TUBING DETAILS

DESCRIPTION	SIZE	WEIGHT	GRADE	SET DEPTH
NA				

WELL HISTORY:

05/05/84	Perf f/ 14380-14484, 4spf 180 phasing w/ TCP
05/07/84	Perf f/ 14484-14564, 4spf 180 phasing w/ casing gun
06/15/84	Convert to injection
04/04/90	Perf f/ 14634-14688, 6 spf 60 phasing
08/06/08	CIBP set at 14,284', dump bail 1 sack on top (14,274')

NUGGET PERFS

14380-484
14484-564
14634-688

PBTD @ 14685' (3' of perfs covered)

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

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: FEE

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.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: ANSCHUTZ RANCH EAST

1. TYPE OF WELL Gas Injection Well

8. WELL NAME and NUMBER: ARE W2-10

2. NAME OF OPERATOR: MERIT ENERGY COMPANY

9. API NUMBER: 43043302650000

3. ADDRESS OF OPERATOR: 13727 Noel Rd Ste 500 , Dallas, TX, 75240

PHONE NUMBER: 972 628-1540 Ext

9. FIELD and POOL or WILDCAT: ANSCHUTZ RANCH EAST

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1959 FSL 1463 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 02 Township: 03.0N Range: 07.0E Meridian: S

COUNTY: SUMMIT

STATE: UTAH

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

TYPE OF SUBMISSION

- ☐ NOTICE OF INTENT — Approximate date work will start:
- ✓ SUBSEQUENT REPORT — Date of Work Completion: 3/17/2016
- ☐ SPUD REPORT — Date of Spud:
- ☐ DRILLING REPORT — Report Date:

TYPE OF ACTION

☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
☐ OPERATOR CHANGE	✓ PLUG AND ABANDON	☐ PLUG BACK
☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

Merit Energy Plugged and Abandon the aforementioned well on 03/17/2016 witnessed by Lisha Cordova Field Inspector with Utah Division of Oil, Gas, and Mining. Please see the attached Daily Summary for details of work done.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
March 23, 2016

NAME (PLEASE PRINT) Katherine McClurkan

PHONE NUMBER 972 628-1660

TITLE Regulatory Analyst

SIGNATURE N/A

DATE 3/22/2016

RECEIVED: Mar. 22, 2016

MERIT ENERGY COMPANY

Job Daily Summary- State Report

Support Line: 972-628-1700 #1
Report Date:
Report #

Well Name: ARE W 02 10

Accounting ID	Original Spud Date	Operator	SAP API Number	Lease	Unit Name
524.1087		MERIT ENERGY COMPANY		ARE W 02 10	
Working Interest	**Original KB Elevation (ft)**	**SAP Latitude**	**SAP Longitude**	**Total Depth**	**KB Adjustment (ft)**
0.6000					
Field Name	**County**	**State/Province**	**Field Office**	**Accounting Group**	**Producing Status**
ANSCHUTZ RANCH EAST	SUMMIT	UT	ANSHUTZ		

Job Category	Primary Job Type	Job Start Date	Job End Date
Plug & Abandon	Permanently Abandon Well	11/4/2015	

Daily Operations

Report Start Date	Primary Activity
2/17/2016	MIRU

Operations Summary
MIRU, Spot support equipment, dig out surface valves,

Report Start Date	Primary Activity
2/18/2016	R/U derrick

Operations Summary
Unable to R/U derrick due to high winds,SD till am.

Report Start Date	Primary Activity
2/19/2016	R/U derrick / TIH 2 7/8" tbg

Operations Summary
Held safety mtg, SIP 0psi, R/U derrick & rig floor, N/D well head, N/U BOPs, P/U 2 3/8" 8' Slotted Sub, X over, TIH Talley 211 jts 2 7/8" 6.5# N80 tbg, EOT 6447', secure well SDON.

Report Start Date	Primary Activity
2/20/2016	TIH 2 7/8" tbg

Operations Summary
Held safety mtg, SIP 0psi, TIH Talley 260 jts 2 7/8" 6.5# N80 tbg, EOT 14764', secure well SDON.

Report Start Date	Primary Activity
2/21/2016	Load role hole

Operations Summary
Held safety mtg, SIP 0psi, Haul up 5 jts 2 7/8" 6.5# N80 tbg Tally TIH Tag CIBP 14825' 20' in on jt 476 POH L/D 1 jt 2 7/8" tbg, EOT @ 14803', circ down tbg up 7" csg, role hole w/ 400 bbls Fw w/ C-6005 inhibitor, water truck problems, secure well SDON.

Report Start Date	Primary Activity
2/22/2016	Role hole / pump cmt P1 & P2 / TOH

Operations Summary
Held safety mtg, SIP 0psi, (State Utah Lisha Cordova 1-801-538-5296 onsite), P/U 1 jt 2 7/8" tbg, retag CIBP for State Utah 14825' MD, L/D 1 jt 2 7/8" tbg, total 475 jts in hole EOT @ 14803' MD, Continue role hole 150 bbls Fw w/ C-6005 inhibitor total roled out 550 bbls returns clean, Pressure test csg 500 psi good State witnessed, Pump 4 bbls Fw, Mix & pump 20 sxs class G cmt 15.8 ppg, yield 1.15, slurry 4 bbls cmt, Pump 4 bbls Fw, displ 81 bbls Fw w/ C-6005 inhibitor, TOC @ 14718', TOH L/D 12 jts 2 7/8" tbg, tbg turn wet try reverse circ pressure up 1800 psi EOT @ 14423' MD w/ 463 Jts in hole, secure winterize well SDON.

Report Start Date	Primary Activity
2/23/2016	Tag plug / perf tbg / TOH 2 7/8"

Operations Summary
Held safety mtg, SIP 0psi, (State Utah Mark Rienbold 1-651-398-6197 onsite), P/U 9 jts 2 7/8" tbg tag TOC @ 14684' 10' in on jt 472, State OK w/ tag, TOH L/D 2 jts 2 7/8" tbg, EOT @ 14643', R/U, E line, RIH down tbg 2.25 GR w/ basket, wt bar, ccl, tag up @ 14204' WLM, POH, L/D tools, RIH down tbg, tbg puncture gun, 0 deg phasing, decentralizing, 4 spf, 1.687 O.D, wt bar, ccl, run collar strip, perf tbg @ 14185' WLM between collars, POH, L/D tools, R/D E line, TOH stand back 230 jts 2 7/8" 6.5# N80 tbg, EOT 7079' MD, secure winterize SDON.

Report Start Date	Primary Activity
2/24/2016	TOH 2 7/8" tbg / TIH 2 7/8" tbg

Operations Summary
Held safety mtg, SIP 0psi, (State Utah Mark Rienbold 1-651-398-6197 notified good to proceed), TOH stand back 214 jts 2 7/8" tbg, L/D 16 jts 2 7/8" cmt tbg w/ slotted sub (Note: perforated jt accounted for), TIH 422 jts 2 7/8" tbg, EOT @ 13162', secure well winterize SDON.

Report Start Date	Primary Activity
2/25/2016	TIH 2 7/8" tbg / pump cmt P1 TOh

Operations Summary
Held safety mtg, SIP 0psi, (State Utah Ammon 1-801-808-0016 onsite), TIH 48 jts 2 7/8" tbg, P/U 3 jts 2 7/8" tbg tag 17' in on jt 473 @ 14746' MD, TOH L/D 1 jt 2 7/8" tbg, P/U (2) 6' 2 7/8" subs, EOT @ 14741', Pump down tbg up 7" csg Load hole 6 bbls Fw 2.5 bpm 200psi, break circ , Pump 4 bbls Fw w/ retarder, Mix & pump 20 sxs class G cmt 1.15 yield, 15.8 ppg, slurry 4 bbls cmt, w/ Diecel HTC-100 power additive retarder, 4# = .4% per 30 sxs cmt, Pump 4 bbls Fw w/ retarder, dislp 80 bbls Fw w/ C-6005 inhibitor, TOC @ 14634', TOH L/D (2) 6' 2 7/8" subs, 10 jts 2 7/8" tbg, reverse circ 95 bbls Fw w/ C-6005 inhibitor see clean returns no cmt, EOT @ 14414' MD 462 jts in hole, (Note: Notice welds on spool cracked and separating from main drum), S/D for repairs, secure well SDFDO.

Report Start Date	Primary Activity
3/1/2016	TOH pump cmt plug / TOH stand back tbg

Operations Summary
Held safety mtg, SIP 0psi, (State Utah Lisha Cordova 1-801-538-5296 onsite), TOH L/D 41 jts 2 7/8" 6.5# N80 tbg EOT @ 13132' MD in on Jt 421, Pump down tbg up 7" csg, load hole 6 bbls Fw w/ C-6005 inhibitor 2.5 bpm 200 psi, break circ, Pump 4 bbls Fw w/ retarder, Mix & pump 30 sxs class G cmt 1.15 yield, 15.8 ppg, slurry 6 bbls cmt, w/ Diecel HTC-100 powder additive retarder, 11# = .4% per 30 sxs cmt, Pump 4 bbls Fw w/ retarder, dislp 71 bbls Fw w/ C-6005 inhibitor, TOC @ 12970', TOH L/D 100 jts 2 7/8" tbg, Stand back 321 Jts 2 7/8" tbg, secure well SDON.

Report Start Date	Primary Activity
3/1/2016	Dig out well head / R/D

Operations Summary
Held safety mtg, SIP 0psi, Unable to R/D due to high winds, dig out well head need Flare to finish up after R/D finish surface plug, move support equipment to W30-12A. SDON.

Report Start Date	Primary Activity
3/1/2016	

Operations Summary

MERIT ENERGY COMPANY

Job Daily Summary- State Report

Support Line: 972-628-1700 #1
Report Date:
Report #

Well Name: ARE W 02 10

Accounting ID	Original Spud Date	Operator	SAP API Number	Lease	Unit Name
524.1087		MERIT ENERGY COMPANY		ARE W 02 10	
Working Interest	**Original KB Elevation (ft)**	**SAP Latitude**	**SAP Longitude**	**Total Depth**	**KB Adjustment (ft)**
0.6000					
Field Name	**County**	**State/Province**	**Field Office**	**Accounting Group**	**Producing Status**
ANSCHUTZ RANCH EAST	SUMMIT	UT	ANSHUTZ		

Daily Operations

Report Start Date	Primary Activity
3/2/2016	R/U E line Tag P2 / Perf / TIH CICR

Operations Summary
vHeld safety mtg, SIP 0psi, (State Utah Lisha Cordova 1-801-538-5296 onsite), R/U E line RIH Perf gun 4spf, ccl, tag TOC @ 12974' WLM, PUH run collar strip, run tie in pass perforate 10,026' WLM between collars POH, L/D tools R/D E line, P/U weatherford CICR 5.70 OD w/ setting tool, TIH w/ 321 jts 2 7/8" 6.5# tbg out of derrick, P/U (1) 6' 2 7/8" sub set CICR @ 9958' MD 17K down, L/D 1 jt 2 7/8" tbg 320 jts in hole, EOT @ 9958'MD sting out load hole w/ 6.5 bbls Fw w/ C-6005 inhibitor, pressure test CICR / csg 500 psi, (Note: State OK w/ set CICR @ 9958' pump 2 sxs extra cmt below CICR), sting into CICR 17K down, establish injection rate, 2.5 bpm @ 0 psi 7" x 9 5/8" annuals see returns, circ out 9 5/8" annuals w/ C-6005 inhibitor 300 bbls total returns clean, sting out, L/D 4 jts 2 7/8" tbg, EOT @ 9864' 317 jts in hole, ready for cmt in am, secure well SDON.

Report Start Date	Primary Activity
3/3/2016	Cmt, perf & TIH w/ CICR

Operations Summary
Held safety mtg, SIP 0psi, (State Utah Lisha Cordova 1-801-538-5296 onsite), TIH w/ 10 jts 2 7/8" 6.5# N80 tbg & sting into CICR @ 9958' MD. Load hole 3 bbls w/ C-6005 inhibitor 2.5 bpm & break circ up 9 5/8 csg. Pump 4 bbls FW lead, 53 sxs class G cmt 1.15 yield, 15.8 ppg, slurry 10.6 bbls cmt w/ Diecel HTC-100 powder additive retarder, 4 bbls FW tail & displ w/ 51.5 bbls Fw w/ C-6005 inhibitor. TOH L/D 97 jts 2 7/8" tbg, Stand back 223 Jts 2 7/8" tbg. RU EWL, RIH w/ 4" x 2' squeeze gun & pull a CCL strip. Perforate w/ 4-jspf @ 6940-41, POH & RD WL. MU 7" x 10k Weatherford CICR, TIH & set ret @ 6889' MD. Secured well & SDON.

Report Start Date	Primary Activity
3/4/2016	Pump cmt P4 / TOH /.Perforate / TIH w/ CICR

Operations Summary
Held safety mtg, SIP 0psi, (State Utah Lisha Cordova 1-801-538-5296 onsite), load 7' 30 bbls Fw w/ C-6005 inhibitor, pressure test CICR & csg 500 psi test good, sting into CICR, establish injection rate, Pump down 7" up 9 5/8" 57 bbls Fw w/ C-6005 inhibitor break circ up 9 5/8" annuals, close 9 5/8", Open 13 3/8" annuals pump 70 bbls Fw w/ C-6005 inhibitor break circ, establish injection rate 1.5 bpm @ 900 psi, circ hole clean Fw w/ C-6005 inhibitor, Pump 4 bbls Fw, Mix & Pump 150 sxs class G cmt 15.8#, yield 1.15, slurry 30.7 bbls cmt, Open 13 3/8" pump 94 sxs cmt 9 5/8"x13 3/8" annuals displ w/ 24.5 bbls Fw w/ inhibitor see returns, close 13 3/8," open 9 5/8" pump 36 sxs cmt 7" x 9 5/8" annuals displ w/ 11 bbls Fw w/ inhibitor see returns, close 9 5/8", sting out, Open 7" pump 20 sxs cmt displ w/ 3 bbls Fw w/ inhibitor top CICR see returns, TOC @ 6790', L/D 104 jts 2 7/8" tbg, stand back 118 jts 2 7/8" tbg in derrick 3635' L/D 1 jt 2 7/8" tbg, stinger, R/U E line RIH perf gun 4spf w/ ccl, run collar strip, run tie in pass perforate @ 3720 WLM, between collars (Note: collar @ 3724 move perf holes up 4' State Utah OK) POH, L/D tools, R/D E line, P/U weahterford 10K 7" CICR 5.70 OD, TIH 119 jts 2 7/8" tbg, P/U 6' 2 7/8" sub, EOT @ 3673' set CICR @ 3673' MD, secure well SDON.

Report Start Date	Primary Activity
3/5/2016	Pump cmt plug / pref 100' / dig out well head

Operations Summary
Held safety mtg, SIP 0psi, (State Utah Mark Rienbold 1-651-398-6197 onsite), Sting out load 7" 3.5 bbls fw w/ C-6005 inhibitor, test CICR & csg 500 psi test good, sting in establish injection rate 1 bpm 600 psi see returns, Pump 4 bbls Fw, Mix & pump 100 sxs class G cmt 15.8#, yield 1.15, slurry 20.3 bbls cmt, Open 13 3/8" pump 60 sxs cmt 9 5/8" x 13 3/8" annuals displ 12 bbls Fw see returns, Close 13 3/8", Open 9 5/8" annuals, 7" x 9 5/8" pump 40 sxs cmt displ w/ 8 bbls Fw see returns, Close 9 5/8", sting out open 7" reverse circ 30 bbls Fw w/ C-6005 inhibitor returns clean, Pump 4 bbls Fw, Mix & Pump 30 sxs class G cmt 15.8#, yield 1.15 slurry 6 bbls cmt displ 16 bbls Fw w/ C-6005 inhibitor top CICR see returns, TOC @ 3520' TOH L/D 119 jts 2 7/8" tbg, P/U TCP gun, TIH 3 jts 2 7/8" tbg perforate 100' surface, TOH L/D 3 jts tbg. ND BOPs / NU well head , dig out well head, ready equipment for rig move, secure well SDON.

Report Start Date	Primary Activity
3/6/2016	Dig out well head / R/D

Operations Summary
Held safety mtg, SIP 0psi, Unable to R/D due to high winds, dig out well head need Flare to finish up after R/D finish surface plug, move support equipment to W30-12A. SDON.

Report Start Date	Primary Activity
3/7/2016	Dig out well / Pump cmt 100' surface

Operations Summary
Held safety mtg, SIP 0psi, (State Utah Mark Rienbold 1-651-398-6197 onsite), dig out well head, unable to break circ down 7" up 13 3/8" inj rate 2.5 bpm @ 400 psi, break circ down 7" up 9 5/8" (Note: State Utah OK w/ pump P6 as planned), Mix & pump 75 sxs class G cmt 15.8#, yield 1.15, slurry 15.3 bbls cmt, Pump 45 sxs class G cmt 15.8# 1.15 yield slurry 9.2 bbls cmt, 7" x 9 5/8" see returns, close 9 5/8" open 13 3/8" pump 30 sxs class G cmt 15.8# 1.15 yield slurry 6.1 bbls cmt break circ see returns, cut off well head top off w/ 30 sxs class G cmt, cmt channeling out let set up overnight finish in am.

Report Start Date	Primary Activity
3/8/2016	Work up surface plug

Operations Summary
Held safety mtg, SIP 0psi, (Contact State Utah Dustin Doucet 1-801-538-5281 OK to proceed top off) Mix & Pump 30 sxs class G cmt 15.8# 1.15 yield slurry 6 bbls cmt, top off 7" x 9 5/8", Mix & pump 20 sxs class G cmt 15.8# 1.15 yield slurry 4 bbls cmt 13 3/8" still channeling let set 3 hrs, Mix & pump 15 sxs class G cmt 15.8# 1.15 yield slurry 3 bbls cmt 13 3/8" still channeling let set (Contact State Utah Dustin Doucet 1-801-538-5281 mix another pill set overnight), Mix & pump 15 sxs class G cmt 15.8# 1.15 yield slurry 3 bbls cmt 13 3/8" still channeling let overnight ,

Report Start Date	Primary Activity
3/9/2016	Work up surface plug

Operations Summary
Held safety mtg, SIP 0psi, (Contact State Utah Dustin Doucet 1-801-538-5281 OK to proceed top off w/ calcium chloride and LCM), Mix & pump 15 sxs class G cmt 15.8# yield 1.15 slurry 3 bbls cmt w/ 5% calcium chloride down 9 5/8" x 13 3/8" wait 1 hr, Mix & pump 19 sxs class G cmt 15.8# yield 1.15 slurry 3.9 bbls cmt w/ 5% calcium chloride w/1 sx LCM down 9 5/8" x 13 3/8" wait 24 hrs,

Report Start Date	Primary Activity
3/10/2016	Work up surface plug

Operations Summary
Held safety mtg, Mix & Pump 30 sxs class G cmt 15.8#, yield 1.15, slurry 6 bbls cmt, w/ 2 sxs LCM, 2 sxs calcium chloride, down 9 5/8" x 13 3/8" let set over weekend.

MERIT ENERGY COMPANY

Job Daily Summary- State Report

Support Line: 972-628-1700 #1
Report Date:
Report #

Well Name: ARE W 02 10

Accounting ID	Original Spud Date	Operator	SAP API Number	Lease	Unit Name
524.1087		MERIT ENERGY COMPANY		ARE W 02 10	
Working Interest	**Original KB Elevation (ft)**	**SAP Latitude**	**SAP Longitude**	**Total Depth**	**KB Adjustment (ft)**
0.6000					
Field Name	**County**	**State/Province**	**Field Office**	**Accounting Group**	**Producing Status**
ANSCHUTZ RANCH EAST	SUMMIT	UT	ANSHUTZ		

Daily Operations

Report Start Date	Primary Activity
3/16/2016	Work up surface plug

Operations Summary
Held safety mtg, SIP 0psi, (Contact State Utah Dustin Doucet 1-801-538-5281 OK to proceed top off w/ calcium chloride and LCM), Load hole w/ 40 bbls Fw w 1.5 sxs LCM, let fluid / LCM settle several hrs, appears FL 200' +/-, try to pump cmt plug in am.

Report Start Date	Primary Activity
3/17/2016	Pump 100' surface plug

Operations Summary
Held safety mtg, (State Utah Lisha Cordova 1-801-538-5296 onsite), Mix 28 sxs class G cmt 15.8# 1.15 yield slurry 5.7 bbls cmt w/ 2% calcium chloride, 1 bag LCM 9 5/8" x 13 3/8", weld on plate data, State good well plugged.

Company Name:	Merit	**Company Man:**	Mel Wren	**Today's Date:**	3-10-16
API or Project #:	43-043-30265	**Company Man Cell:**	1-307-679-8010	**Days on Well:**	17
Well Name/Number:	ARE W2-10				
Section/Township/Range	Sec.2,Twnship 3 N,R. 7 E				

		Drive/Hrs	Ride/Hrs	Work/Hrs	Total/Hrs	Per Diem
Rig #:	#24					
Tool Pusher:	Daniel Norton	5		1.5	6.5	
Operator:	Mike Nielson	0		0	0	
Rig Hand:	Austin Jones		7.5	1.5	9	
Rig Hand:	Jose Riverra	7.5		1.5	9	
Rig Hand:						
Rig Hand:						

MAGNA ENERGY SERVICES

Task Times:		Job Steps "In Scope"	Task Times:		Job Steps "Out of Bid Scope"
			8:00am	9:00am	Crew Travel (Had to get More LCM and Calcium)
			9:00am		Load Water Truck, Road Cementer to Location, Prep Cementer
					Gravity feed 30 Sxs. Cement w/ 2 Bags LCM and 2 Bags Calcium,
				10:30am	Winterize Equip., SDFN
10:30am		Travel Home For days Off			

Company Name:	Merit	**Company Man:**	Mel Wren	**Today's Date:**	3-9-16
API or Project #:	43-043-30265	**Company Man Cell:**	1-307-679-8010	**Days on Well:**	16
Well Name/Number:	ARE W2-10				
Section/Township/Range	Sec.2,Twnship 3 N,R. 7 E				

		Drive/Hrs	Ride/Hrs	Work/Hrs	Total/Hrs	Per Diem
Rig #:	#24					
Tool Pusher:	Daniel Norton	1		2.5	3.5	yes
Operator:	Mike Nielson	0		0	0	No
Rig Hand:	Austin Jones		1	2.5	3.5	yes
Rig Hand:	Jose Riverra	1		2.5	3.5	yes
Rig Hand:						
Rig Hand:						

MAGNA ENERGY SERVICES

Task Times:		Job Steps "In Scope"	Task Times:		Job Steps "Out of Bid Scope"
			6:00am	7:00am	Crew Travel
			7:00am	8:00am	JSA, Drive to the 2-10
			8:00am		Prep Cementer, Gravity Feed 10 Sxs. Cement Down 13 3/8", Still
					Channeling, w/o Approval from state (Approved to Use LCM &
					Calcium Chloride), Gravity Feed 19.5 Sxs. Cement down 13 3/8"
				9:30am	w/ 1 Bag of Calcium & 1 Bag of LCM, Winterize Equip.

Company Name:	Merit	**Company Man:**	Mel Wren	**Today's Date:**	3-8-16
API or Project #:	43-043-30265	**Company Man Cell:**	1-307-679-8010	**Days on Well:**	15
Well Name/Number:	ARE W2-10				
Section/Township/Range	Sec.2,Twnship 3 N,R. 7 E				

		Drive/Hrs	Ride/Hrs	Work/Hrs	Total/Hrs	Per Diem
Rig #:	#24					
Tool Pusher:	Daniel Norton	2		10.5	12.5	yes
Operator:	Mike Nielson	4		0	4	No
Rig Hand:	Austin Jones		2	10.5	12.5	yes
Rig Hand:	Jose Riverra	2		10.5	12.5	yes
Rig Hand:						
Rig Hand:						

MAGNA ENERGY SERVICES

Task Times:		Job Steps "In Scope"	Task Times:		Job Steps "Out of Bid Scope"
6:00am	7:00am	Crew Travel			
7:00am	8:00am	JSA, Prep Cementer			
			8:00am		Gravity Feed 30 sxs. Cement into 7" and 9 5/8" To Surf., Gravity
				9:00am	Feed Additional 20 Sxs. In 13 3/8", Still Channeling down 13 3/8"
9:00am	12:00pm	Thaw air Lines to Rig, Road Equip. to Next Location			
			12:00pm	1:00pm	Call State, Pump an Additional 15 Sxs. Down 13 3/8", Still Channeling
1:00pm	2:00pm	Road Equip. to next Location			
			2:00pm		W/O State to respond on if we could use Calcium and LCM,
					(State Approved to Pump another 15 Sxs. Neat, no LCM or Calcium @
				3:00pm	this time), Gravity Feed 15 Sxs. Down 13 3/8", Winterize Equip
3:00pm		Load Welder into Crew Ride, Road Backhoe (Back hoe Broke			
		down in route), Spot BaseBeam, Spot in rig. (to Windy to Rig			
	5:30pm	up), Try to Trouble shoot Backhoe, SDFN			
5:30pm	6:30pm	Crew Travel			

Company Name:	Merit	**Company Man:**	Mel Wren	**Today's Date:**	3-7-16
API or Project #:	43-043-30265	**Company Man Cell:**	1-307-679-8010	**Days on Well:**	14
Well Name/Number:	ARE W2-10				
Section/Township/Range	Sec.2,Twnship 3 N,R. 7 E				

		Drive/Hrs	Ride/Hrs	Work/Hrs	Total/Hrs	Per Diem
Rig #:	#24					
Tool Pusher:	Daniel Norton	2		10.5	12.5	yes
Operator:	Mike Nielson	2		10.5	12.5	yes
Rig Hand:	Austin Jones		2	10.5	12.5	yes
Rig Hand:	Jose Riverra		2	10.5	12.5	yes
Rig Hand:						
Rig Hand:						

MAGNA ENERGY SERVICES

Task Times:		Job Steps "In Scope"	Task Times:		Job Steps "Out of Bid Scope"
6:00am	7:00am	Crew Travel			
7:00am		JSA, Check Pressures; 0 Psi. 7" Csg., 0 Psi. 9 5/8"			
	7:30am	Csg., 0 Psi. 13 3/8" Csg.			
7:30am	9:30am	RDWOR, Thaw out Dogs and drill Line from Storm			
9:30am	12:00pm	Dig out Wellhead, Cut Ring off Wellhead			
12:00pm		Pump down 7" x 13 3/8" w/ 48 bbls. @ 400 Psi. w/ no Circ.,			
		Pump dwn 7" x 9 5/8" w/ 5 bbls., Pressured up to 400 Psi. w/			
		No returns, Pump down 9 5/8" x 7" w/ 12 bbls. @ 0 Psi.			
		(Broke Circ.), Pump down 7" x 9 5/8", Broke circ. w/ 4 bbls.,			
		Open 13 3/8", Pump 12 Bbls. @ 400 Psi. w/ No circ. (State			
	1:00pm	Approved to Pump as Procedure)			
1:00pm		Pump 67 Sxs. Down 7" x 9 5/8" , cement to surf, Close 9 5/8"			
	2:00pm	Open 13 3/8", Pump 8 sxs. w/ returns up 13 3/8" w/ No Cement			
2:00pm	3:00pm	Cut Well Head Off			
			3:00pm		Fluid 5 seconds Down, 30 Sxs. Cement, Stop, fluid 4 seconds
					Down (Wait till tomorrow) to top of Surf., Let set up over night
				4:00pm	All Gravity fed w/ no pump
4:00pm	5:30pm	Winterize Equip., Load cementer, SDFN			
5:30pm	6:30pm	Crew Travel			

Company Name:	Merit	**Company Man:**	Mel Wren	**Today's Date:**	3-6-16
API or Project #:	43-043-30265	**Company Man Cell:**	1-307-679-8010	**Days on Well:**	13
Well Name/Number:	ARE W2-10				
Section/Township/Range	Sec.2,Twnship 3 N,R. 7 E				

		Drive/Hrs	Ride/Hrs	Work/Hrs	Total/Hrs	Per Diem
Rig #:	#24					
Tool Pusher:	Daniel Norton	2		5	7	yes
Operator:	Mike Nielson	2		5	7	yes
Rig Hand:	Austin Jones		2	5	7	yes
Rig Hand:	Jose Riverra		2	5	7	yes
Rig Hand:						
Rig Hand:						

MAGNA ENERGY SERVICES

Task Times:		Job Steps "In Scope"	Task Times:		Job Steps "Out of Bid Scope"
6:00am	7:00am	Crew Travel			
7:00am		JSA, Check Pressures; 0 Psi. 7" Csg., 0 Psi. 9 5/8"			
	7:30am	Csg., 0 Psi. 13 3/8" Csg.			
7:30am		P/U Location, Drop air tanks on Semi, Weld tank due to air leak,			
		fix loose tanks, install air tanks, dig out well head on off rig			
	12:00pm	side			
12:00pm	1:00pm	Crew Travel			

Company Name:	Merit	**Company Man:**	Mel Wren	**Today's Date:**	3-5-16
API or Project #:	43-043-30265	**Company Man Cell:**	1-307-679-8010	**Days on Well:**	12
Well Name/Number:	ARE W2-10				
Section/Township/Range	Sec.2,Twnship 3 N,R. 7 E				
Rig #:	#24				
Tool Pusher:	Daniel Norton				
Operator:	Mike Nielson				
Rig Hand:	Austin Jones				
Rig Hand:	Jose Riverra				
Rig Hand:					
Rig Hand:					

Drive/Hrs	Ride/Hrs	Work/Hrs	Total/Hrs	Per Diem
2		9.5	11.5	yes
2		9.5	11.5	yes
	2	9.5	11.5	yes
	2	9.5	11.5	yes

MAGNA ENERGY SERVICES

Task Times:		Job Steps "In Scope"	Task Times:		Job Steps "Out of Bid Scope"		
6:00am	7:00am	Crew Travel					
7:00am		JSA, Check Pressures;0 Psi. Tbg., 0 Psi. 7" Csg., 0 Psi. 9 5/8"					
	7:30am	Csg., 0 Psi. 13 3/8" Csg.					
7:30am		Sting out CICR, Load 7" w/ 3.5 bbls., sting into CICR, Break					
		Circ. Up 9 5/8" w/ 3 bbls., Close 9 5/8", Open 13 3/8",					
		Injection Rate .5 bbls. Min. @ 600 Psi., Pump 2 bbls. Fresh,					
		100 Sxs. Cement, 1 Bbl. Fresh, Displ. w/ 12 bbls. Corrosion					
		Inhibited water, close 13 3/8", Open 9 5/8", Displ w/ 8 bbls.					
	10:00am	Leaving 60 sxs. In 13 3/8" , 30 sxs. In 9 5/8" w/ 10 Sxs. Below,					
10:00am		Sting out of CICR, Reverse circ. w/ 30 bbls. (Some Light Cement					
		color in returns), Pump 4 Bbls. Fresh, 30 Sxs. Cement, 4 bbls.					
	12:00pm	Fresh, displ. w/ 16 bbls. (TOC @ 3506')					
12:00pm		L/D 117 Jts., TOOH w/ 2 Jts., L/D Setting tool, Load 7" w/ 10					
		Bbls. To Surf., P/U TCP Gun, TIH w/ 2 Jts., P/U 1 Jt.					
	2:00pm	Shoot holes @ 100', L/D 3 Jts.					
2:00pm		R/D Floor, NDBOP, NUWH, SWIFN, clean up Location, fix Tbg.					
	4:30pm	Trailer that was sinking in Mud, SDFN					
4:30pm	5:30pm	Crew Travel					
		To windy to rig down					

Company Name:	Merit	**Company Man:**	Mel Wren	**Today's Date:**	3-4-16
API or Project #:	43-043-30265	**Company Man Cell:**	1-307-679-8010	**Days on Well:**	11
Well Name/Number:	ARE W2-10				
Section/Township/Range	Sec.2,Twnship 3 N,R. 7 E				

		Drive/Hrs	Ride/Hrs	Work/Hrs	Total/Hrs	Per Diem
Rig #:	#24					
Tool Pusher:	Daniel Norton	2		11	13	yes
Operator:	Mike Nielson	2		11	13	yes
Rig Hand:	Austin Jones		2	11	13	yes
Rig Hand:	Jose Riverra		2	11	13	yes
Rig Hand:						
Rig Hand:						

MAGNA ENERGY SERVICES

Task Times:		Job Steps "In Scope"	Task Times:		Job Steps "Out of Bid Scope"
6:00am	7:00am	Crew Travel			
7:00am		JSA, Check Pressures;0 Psi. Tbg., 0 Psi. 7" Csg., 0 Psi. 9 5/8"			
	7:30am	Csg., 0 Psi. 13 3/8" Csg.			
7:30am		Sting out of CICR, Load 7" w/ 30 Bbls. To Break circ., Sting into			
		CICR, Pump 57 bbls. To Break Circ. Up 9 5/8" Csg., Shut 9 5/8",			
		Open 13 3/8", roled 104 bbls. Out of 13 3/8", w/ Injection			
	11:00am	Rate @ 1/2 bbl. Min. @ 1000 Psi.			
11:00am		Sting out, Pump 4 Bbls. Fresh, 150 Sxs. Cement, 4 Bbls. Fresh,			
		Displ. w/ 4 Bbls., Sting into CICR, Displ. w/ 20.5 bbls.			
		(Leaving 94 sxs. In 13 3/8"), Close 13 3/8", Open 9 5/8" Valve,			
		Pump 7 Bbls. Displ. (Leaving 26 sxs. In 9 5/8", 10 Sxs. Below			
		CICR, Close Valve, Sting out, Pump 3 bbls. Displ. (Leaving			
	12:30pm	20 Sxs. On CICR, TOC @ 6786'			
12:30pm		L/D 104 Jts. 2 7/8" N-80 Tbg., TOOH w/ 119 Jts. In the Derrick,			
	3:00pm	L/D Setting tool			
3:00pm		JSA, R/U Magna Wireline, RIH w/ 4 Shot Squeeze Gun, Shoot			
	4:00pm	Holes @ 3720', POOH, R/D WL			
4:00pm		P/U Weatherford 7" CICR, TIH w/ 119 Jts. 2 7/8" Tbg., Set			
		CICR @ 3667' (State Approved), Winterize Equip, SWIFN,			
	6:00pm	Fill cementer, SDFN			
6:00pm	7:00pm	Crew Travel			

Company Name:	Merit	**Company Man:**	Mel Wren	**Today's Date:**	3/3/2016
API or Project #:	43-043-30265	**Company Man Cell:**	1-307-679-8010	**Days on Well:**	**10**
Well Name/Number:	ARE W2-10				
Section/Township/Range	Sec.2,Twnship 3 N,R. 7 E				
Rig #:	#24				
Tool Pusher:	Daniel Norton				
Operator:	Mike Nielson				
Rig Hand:	Austin Jones				
Rig Hand:	Jose Riverra				
Rig Hand:					
Rig Hand:					

Drive/Hrs	Ride/Hrs	Work/Hrs	Total/Hrs	Per Diem
2		9.5	11.5	yes
2		9.5	11.5	yes
	2	9.5	11.5	yes
	2	9.5	11.5	yes

MAGNA ENERGY SERVICES

Task Times:		Job Steps "In Scope"	Task Times:		Job Steps "Out of Bid Scope"
6:00am	7:00am	Crew Travel			
7:00am		JSA, Check Pressures;0 Psi. Tbg., 0 Psi. 7" Csg., 0 Psi. 9 5/8"			
	7:30am	Csg., 0 Psi. 13 3/8" Csg.			
7:30am		P/U 4 JTS. 2 7/8" Tbg. w/ 1-6' Sub, sting into CICR, Break			
		Circ. w/ 3 bbls. Up 9 5/8", Pump 4 bbls. Fresh, 53 sxs.			
		Cement, 4 bbls. Fresh, Displ. w/ 51.5 bbls. (Leaving 10 sxs.			
	9:00am	in Tbg.), Sting out, Displ.w/ 1 bbl. (TOC @ 9904')			
9:00am	12:30pm	L/D 97 Jts. 2 7/8" Tbg., TOOH w/ 223 Jts. L/D Setting tool			
12:30pm		JSA, R/U Magna Wire Line,RIH w/ 4 shot Squeeze gun,			
	2:00pm	Shoot Holes @ 6940' to 6941', POOH, R/D WL			
2:00pm		P/U Weatherford 7" CICR, TIH w/ 222 Jts. 2 7/8" Tbg., 2-6'			
		Subs, 1 Jt. 2 7/8" Tbg., Set CICR @ 6889', Move Tbg. Trailers			
	4:30pm	Winterize Equip, SWIFN, SDFN			
4:30pm	5:30pm	Crew Travel			

Company Name:	Merit	**Company Man:**	Mel Wren	**Today's Date:**	3/2/2016
API or Project #:	43-043-30265	**Company Man Cell:**	1-307-679-8010	**Days on Well:**	9
Well Name/Number:	ARE W2-10				
Section/Township/Range	Sec.2,Twnship 3 N,R. 7 E				

		Drive/Hrs	Ride/Hrs	Work/Hrs	Total/Hrs	Per Diem
Rig #:	#24					
Tool Pusher:	Daniel Norton	2		10	12	yes
Operator:	Mike Nielson	2		10	12	yes
Rig Hand:	Austin Jones		2	10	12	yes
Rig Hand:	Jose Riverra		2	10	12	yes
Rig Hand:						
Rig Hand:						

MAGNA ENERGY SERVICES

Task Times:		Job Steps "In Scope"	Task Times:		Job Steps "Out of Bid Scope"
6:00am	7:00am	Crew Travel			
7:00am		JSA, Check Pressures; 0 Psi. 7" Csg., 0 Psi. 9 5/8"			
	7:30am	Csg., 0 Psi. 13 3/8" Csg.			
7:30am		R/U Magna Wireline, RIH w/ 4 Shot Squeeze Gun, tagged			
		Cement @ 12,974', Pooh to 10,026', Shoot holes from			
	9:00am	10,026' to 10,027', POOH, R/D WL			
9:00am		P/U 7" CICR, TIH w/ 320 Jts. 2 7/8" N-80# Tbg., Set CICR @			
	1:00pm	9958', Sting out			
1:00pm		Prep Pump, 6.5 bbls. To Load 7" down Tbg., Pressure test CICR			
		to 500 Psi. (good), bleed off, Sting into CICR, Break Circ. Up			
		9 5/8" w/ 5 bbls. (Injection Rate 3 bbls. Min. @ 0 Psi.), Role			
		300 Bbls. From 10,026' to Surf. 9 5/8" x 7" w/ Corrosion			
	5:00pm	Inhibited water, L/D 4 Jts., Winterize Equip., SWIFN, SDFN			
5:00pm	6:00pm	Crew Travel			

Company Name:	Merit	**Company Man:**	Mel Wren	**Today's Date:**	3/1/2016
API or Project #:	43-043-30265	**Company Man Cell:**	1-307-679-8010	**Days on Well:**	8
Well Name/Number:	ARE W2-10				
Section/Township/Range	Sec.2,Twnship 3 N,R. 7 E				

		Drive/Hrs	Ride/Hrs	Work/Hrs	Total/Hrs	Per Diem
Rig #:	#24					
Tool Pusher:	Daniel Norton	2		11	13	yes
Operator:	Mike Nielson	2		11	13	yes
Rig Hand:	Austin Jones		2	11	13	yes
Rig Hand:	Jose Riverra		2	11	13	yes
Rig Hand:						
Rig Hand:						

MAGNA ENERGY SERVICES

Task Times:		Job Steps "In Scope"	Task Times:		Job Steps "Out of Bid Scope"
6:00am	7:00am	Crew Travel			
7:00am		JSA, Check Pressures;0 Psi. Tbg., 0 Psi. 7" Csg., 0 Psi. 9 5/8"			
	7:30am	Csg., 0 Psi. 13 3/8" Csg.			
7:30am	8:30am	L/D 41 Jts., Leaving 421 Jts. In the hole, EOT @ 13,132'			
8:30am		Load th hole w/ 4 Bbls. (Pipe rams leaking, change rams),			
		Transfer water from 400 to Rig tank, Mixed Corrosion Inhibitor,			
		Mix Retarder w/ Fresh water, Pump over to Cementer, Pump			
		4 Bbls. Fresh, 30 Sxs. Cement, 4 Bbls. Fresh, Displ. w/ 71 Bbls.			
	12:00pm	Corrosion Inhibited water (TOC @ 12,971')			
12:00pm		L/D 100 Jts. 2 7/8" Tbg., TOOH w/ 321 Jts. In the Derrick,			
	6:00pm	Winterize Equip., SWIFN, SDFN			
6:00pm	7:00pm	Crew Travel			

Company Name:	Merit	**Company Man:**	Mel Wren	**Today's Date:**	2/29/2016
API or Project #:	43-043-30265	**Company Man Cell:**	1-307-679-8010	**Days on Well:**	7
Well Name/Number:	ARE W2-10				
Section/Township/Range	Sec.2,Twnship 3 N,R. 7 E				
Rig #:	#24				
Tool Pusher:	Daniel Norton				
Operator:	Mike Nielson				
Rig Hand:	Austin Jones				
Rig Hand:	Jose Riverra				
Rig Hand:					
Rig Hand:					

Drive/Hrs	Ride/Hrs	Work/Hrs	Total/Hrs	Per Diem
5		1	6	yes
	5	1	6	yes
7			7	yes
	7		7	yes

MAGNA ENERGY SERVICES

Task Times:		Job Steps "In Scope"	Task Times:		Job Steps "Out of Bid Scope"
12:00pm	3:00pm	Crew Travel for Daniel And mike tio Evanston, Call Welder,			
3:00pm	4:00pm	Travel to Rig			
4:00pm	5:00pm	Weld Rig and Tank			
5:00pm	6:00pm	Crew Travel			
12:00pm	7:00pm	Crew travel Austin and Jose			

Company Name:	Merit	**Company Man:**	Mel Wren	**Today's Date:**	2/25/2016
API or Project #:	43-043-30265	**Company Man Cell:**	1-307-679-8010	**Days on Well:**	7
Well Name/Number:	ARE W2-10				
Section/Township/Range	Sec.2,Twnship 3 N,R. 7 E				
Rig #:	#24				
Tool Pusher:	Daniel Norton				
Operator:	Mike Nielson				
Rig Hand:	Austin Jones				
Rig Hand:	Jose Riverra				
Rig Hand:					
Rig Hand:					

Drive/Hrs	Ride/Hrs	Work/Hrs	Total/Hrs	Per Diem
2		10.5	12.5	Yes
2		8.5	10.5	Yes
	2	8.5	10.5	Yes
	2	8.5	10.5	Yes

MAGNA ENERGY SERVICES

Task Times:		Job Steps "In Scope"	Task Times:		Job Steps "Out of Bid Scope"
6:00am	7:00am	Crew Travel			
7:00am		JSA, Check Pressures; 0 Psi. Tbg.0 Psi. 7",0 Psi. 9 5/8", 0 Psi.			
	7:30am	Surf. Csg.			
7:30am		TIH w/ 48 Jts. 2 7/8", P/U 3 Jts., Tagged 17' in on Jt. 473 @			
	8:30am	Tagged @ 14,746', L/D 1 Jt., P/U 2-6' Subs, EOT @ 14,741'			
8:30am		Role 11 Pnds. Of Retarder w/ 10.5 Bbls. Water in Displ. Tubs,			
	11:00am	Pump into Cementer, Fix Pop off on Rig (Wouldn't build Air)			
11:00am		Break Circ. w/ 6 Bbls. Water, Pump 4 Bbls. Fresh, 20 Sxs.			
		cement, 4 bbls. Fresh, Displ. w/ 80 Bbls. (TOC @ 14,634'),			
	12:30pm	L/D 10 Jts. 2 7/8" Tbg.			
12:30pm		Reverse Circ. w/ 90 bbls. (No Cement in Returns), EOT @			
		14,414' W/ 462 Jts. In the hole, SDWOR due to Broken			
	2:30pm	Welds on Main Drum during Inspection, SWIFN, SDFN			
2:30pm	3:30pm	Crew Travel			
6:00pm	7:00pm	Safety Meeting (Violence in the work Force)			
7:00pm	9:00pm	Suspecion Training			

Company Name:	Merit	**Company Man:**	Mel Wren	**Today's Date:**	2/24/2016
API or Project #:	43-043-30265	**Company Man Cell:**	1-307-679-8010	**Days on Well:**	6
Well Name/Number:	ARE W2-10				
Section/Township/Range	Sec.2,Twnship 3 N,R. 7 E				

		Drive/Hrs	Ride/Hrs	Work/Hrs	Total/Hrs	Per Diem
Rig #:	#24					
Tool Pusher:	Daniel Norton	2		10.5	12.5	Yes
Operator:	Mike Nielson	2		10.5	12.5	Yes
Rig Hand:	Austin Jones		2	10.5	12.5	Yes
Rig Hand:	Jose Riverra		2	10.5	12.5	Yes
Rig Hand:						
Rig Hand:						

MAGNA ENERGY SERVICES

Task Times:		Job Steps "In Scope"	Task Times:		Job Steps "Out of Bid Scope"
6:00am	7:00am	Crew Travel			
7:00am		JSA, Check Pressures; 0 Psi. Tbg.0 Psi. 7",0 Psi. 9 5/8", 0 Psi.			
	7:30am	Surf. Csg.			
7:30am		TOOH w/ 214 Jts. (454 Jts. Total in Derrick), L/D 16			
	10:00am	cemented Jts., 1-10' Perf. Sub			
10:00am		Tally 16 Jts. 2 7/8" 8rnd. EUE Tbg., P/U 16 Jts., TIH w/406 Jts.			
		(422 Jts. Total in the Hole), EOT @ 13,162', P/U Location,			
	5:30pm	SWIFN, SDFN			
5:30pm	6:30pm	Crew Travel			

Company Name:	Merit	**Company Man:**	Mel Wren	**Today's Date:**	2/23/2016
API or Project #:	43-043-30265	**Company Man Cell:**	1-307-679-8010	**Days on Well:**	5
Well Name/Number:	ARE W2-10				
Section/Township/Range	Sec.2,Twnship 3 N,R. 7 E				

		Drive/Hrs	Ride/Hrs	Work/Hrs	Total/Hrs	Per Diem
Rig #:	#24					
Tool Pusher:	Daniel Norton	2		11	13	Yes
Operator:	Mike Nielson	2		11	13	Yes
Rig Hand:	Austin Jones		2	11	13	Yes
Rig Hand:	Jose Riverra		2	11	13	Yes
Rig Hand:						
Rig Hand:						

MAGNA ENERGY SERVICES

Task Times:		Job Steps "In Scope"	Task Times:		Job Steps "Out of Bid Scope"
6:00am	7:00am	Crew Travel			
7:00am		JSA, Check Pressures; 0 Psi. Tbg.0 Psi. 7",0 Psi. 9 5/8", 0 Psi.			
	7:30am	Surf. Csg.			
7:30am		TIH w/ 9 Jts. 2 7/8", 10' in on Jt. 472 (Looked Like soft Tag),			
		p/u 1 More Jt. (Still acted soft), L/D 3 Jts.(470 Total in the			
	9:00am	Hole),EOT @ 14,643', W/O magna wireline			
9:00am		JSA, R/U WL, Issues w/ getting set screw out ofGauge Ring,			
	11:30pm	Cut Screw, RIH w/ 2.25 GRJB, Tagged @ 14,204', POOH,			
11:30pm	1:30pm	RIH w/ Tbg. Puncher, shoot holes @ 14,185, POOH, R/D WL			
1:30pm		TOOH w/ 240 Jts. , 230 Jts. In the Hole, EOT @ 7079'			
	6:00pm	SWIFN, SDFN			
6:00pm	7:00pm	Crew Travel			

Company Name:	Merit	**Company Man:**	Mel Wren	**Today's Date:**	2/22/2016
API or Project #:	43-043-30265	**Company Man Cell:**	1-307-679-8010	**Days on Well:**	4
Well Name/Number:	ARE W2-10				
Section/Township/Range	Sec.2,Twnship 3 N,R. 7 E				

		Drive/Hrs	Ride/Hrs	Work/Hrs	Total/Hrs	Per Diem
Rig #:	#24					
Tool Pusher:	Daniel Norton	2		8.5	10.5	Yes
Operator:	Mike Nielson	2		8.5	10.5	Yes
Rig Hand:	Austin Jones		2	8.5	10.5	Yes
Rig Hand:	Jose Riverra		2	8.5	10.5	Yes
Rig Hand:						
Rig Hand:						

MAGNA ENERGY SERVICES

Task Times:		Job Steps "In Scope"	Task Times:		Job Steps "Out of Bid Scope"
6:00am	7:00am	Crew Travel			
7:00am		JSA, Check Pressures; 0 Psi. Tbg.0 Psi. 7",10 Psi. 9 5/8", 0 Psi.			
	7:30am	Surf. Csg.			
7:30am	8:00am	Thaw Equip., P/U 1 Jt., Tagged @ 14,825', L/D 1 Jt., EOT @			
8:00am		14,804' W/ 475 Jts.			
		Pump 130 Bbls. To Role the hole (530 Total), Pressure			
		Test Csg. To 500 Psi. For 15 Min. (Good)			
		Pump 4 Bbls. Fresh, 20 sxs. Cement, 4 Bbls. Fresh, Displ.			
		w/ 81 Bbls. Corrosion Inhibited Water, toc @ 14,698'			
		(Started Pulling Wet), EOT @ 14,486', Attempt to Reverse Cir.,			
		Pressured up to 1800 Psi. w/ No Bleed Off, Bleed Off Well,			
		L/D 1 Jt., 463 Total in the Hole, EOT @ 14,423',			
	3:30pm	SWIFN, Winterize Equip., SDFN			
3:30pm	4:30pm	Crew Travel			

Company Name:	Merit	**Company Man:**	Mel Wren	**Today's Date:**	2/21/2016
API or Project #:	43-043-30265	**Company Man Cell:**	1-307-679-8010	**Days on Well:**	3
Well Name/Number:	ARE W2-10				
Section/Township/Range	Sec.2,Twnship 3 N,R. 7 E				

		Drive/Hrs	Ride/Hrs	Work/Hrs	Total/Hrs	Per Diem
Rig #:	#24					
Tool Pusher:	Daniel Norton	2		12	14	Yes
Operator:	Mike Nielson	2		12	14	Yes
Rig Hand:	Austin Jones		2	12	14	Yes
Rig Hand:	Jose Riverra		2	12	14	Yes
Rig Hand:						
Rig Hand:						

MAGNA ENERGY SERVICES

Task Times:		Job Steps "In Scope"	Task Times:		Job Steps "Out of Bid Scope"
6:00am	7:00am	Crew Travel			
7:00am		JSA, Check Pressures; 0 Psi. Tbg.0 Psi. 7",10 Psi. 9 5/8", 0 Psi.			
	7:30am	Surf. Csg.			
7:30am	8:00am	Thaw Equip.			
8:00am		Haul 3 Jts. Of 2 7/8" From yard to Rig, P/U 4 Jts. ,EOT @			
	9:00am	14,803' (Still No Tag on CIBP), 475 Jts. In the hole			
9:00am		Pump 400 Bbls. Down Tbg. Up Csg. w/ Corrosion Inhibitor,			
		Filled Cementer, P/U 1 Jt. 2 7/8" Tbg. From Yard, Tagged @			
		14,825', L/D 1 Jt., Water Truck Broke Down, Winterize			
	7:00pm	Equip., SWIFN, SDFN			
7:00pm	8:00pm	Crew Travel			

Company Name:	Merit	**Company Man:**	Mel Wren	**Today's Date:**	2/20/2016
API or Project #:	43-043-30265	**Company Man Cell:**	1-307-679-8010	**Days on Well:**	2
Well Name/Number:	ARE W2-10				
Section/Township/Range	Sec.2,Twnship 3 N,R. 7 E				

		Drive/Hrs	Ride/Hrs	Work/Hrs	Total/Hrs	Per Diem
Rig #:	#24					
Tool Pusher:	Daniel Norton	2		10.5	12.5	Yes
Operator:	Mike Nielson	2		10.5	12.5	Yes
Rig Hand:	Austin Jones		2	10.5	12.5	Yes
Rig Hand:	Jose Riverra		2	10.5	12.5	Yes
Rig Hand:						
Rig Hand:						

MAGNA ENERGY SERVICES

Task Times:		Job Steps "In Scope"	Task Times:		Job Steps "Out of Bid Scope"
6:00am	7:00am	Crew Travel			
7:00am		JSA, Check Pressures; 0 Psi. Tbg.0 Psi. 7",10 Psi. 9 5/8", 0 Psi.			
	7:30am	Surf. Csg.			
7:30am		P/U 260 Jts. 2 7/8" N-80 Tbg. (471 Jts. Total), EOT @ 14671',			
	5:30pm	SWIFN, SDFN (Ran out of Tbg. On Location,)			
5:30pm	6:30pm	Crew Travel			

Company Name:	Merit	**Company Man:**	Mel Wren	**Today's Date:**	2/19/2016
API or Project #:	43-043-30265	**Company Man Cell:**	1-307-679-8010	**Days on Well:**	1
Well Name/Number:	ARE W2-10				
Section/Township/Range	Sec.2,Twnship 3 N,R. 7 E				
Rig #:	#24				
Tool Pusher:	Daniel Norton				
Operator:	Mike Nielson				
Rig Hand:	Austin Jones				
Rig Hand:	Jose Riverra				
Rig Hand:					
Rig Hand:					

Drive/Hrs	Ride/Hrs	Work/Hrs	Total/Hrs	Per Diem
2		12	14	Yes
2		12	14	Yes
	2	12	14	Yes
	2	12	14	Yes

MAGNA ENERGY SERVICES

Task Times:		Job Steps "In Scope"	Task Times:		Job Steps "Out of Bid Scope"
6:00am	7:00am	Crew Travel			
7:00am		JSA, Check Pressures; 10 Psi. 7",10 Psi. 9 5/8", 0 Psi. Surf. Csg.			
		Blow down to tank, (Hole is full), 4 Bolt well Head, W/O			
	9:00am	The wind to Die down			
9:00am	10:00am	RUWOR			
10:00am		NDWH, NUBOP, w/ Weatherford 10K to 5K Spool, R/U Floor,			
	1:00pm	Restring New Tong Line, Spot in Tbg. Trailer			
1:00pm		P/U 1-10' 2 3/8" Slotted Sub, P/U 211 Jts. 2 7/8" N-80 6.7# Tbg.			
	7:00pm	Tallied, EOT @ 6447', SWIFN, SDFN			
7:00pm	8:00pm	Crew Travel			

Company Name:	Merit	**Company Man:**	Mel Wren	**Today's Date:**	2/18/2016
API or Project #:	43-043-30265	**Company Man Cell:**	1-307-679-8010	**Days on Well:**	0
Well Name/Number:	ARE W2-10				
Section/Township/Range	Sec.2,Twnship 3 N,R. 7 E				
Rig #:	#24				
Tool Pusher:	Daniel Norton				
Operator:	Mike Nielson				
Rig Hand:	Austin Jones				
Rig Hand:	Jose Riverra				
Rig Hand:					
Rig Hand:					

Drive/Hrs	Ride/Hrs	Work/Hrs	Total/Hrs	Per Diem
2		1.5	3.5	Yes
2		1.5	3.5	Yes
	2	1.5	3.5	Yes
	2	1.5	3.5	Yes

MAGNA ENERGY SERVICES

Task Times:		Job Steps "In Scope"	Task Times:		Job Steps "Out of Bid Scope"
6:00am	7:00am	Crew Travel			
7:00am		JSA, to Windy to Rig up (supposed to Quite Blowing @ 5pm),			
	8:30am	SDFN			

Company Name:	Merit	**Company Man:**	Mel Wren	**Today's Date:**	2/17/2016
API or Project #:	43-043-30265	**Company Man Cell:**	1-307-679-8010	**Days on Well:**	0
Well Name/Number:	ARE W2-10				
Section/Township/Range	Sec.2,Twnship 3 N,R. 7 E				

		Drive/Hrs	Ride/Hrs	Work/Hrs	Total/Hrs	Per Diem
Rig #:	#24					
Tool Pusher:	Daniel Norton	1		4	5	
Operator:	Mike Nielson	1		4	5	
Rig Hand:	Austin Jones		1	4	5	
Rig Hand:	Jose Riverra		1	4	5	
Rig Hand:						
Rig Hand:						

MAGNA ENERGY SERVICES

Task Times:		Job Steps "In Scope"	Task Times:		Job Steps "Out of Bid Scope"
12:00pm	2:00pm	Road Equip., Spot in Rig			
2:00pm		Dig Out Well Head, Check Pressures; 10 Psi. 7", 10 Psi. 9 5/8",			
	4:00pm	0 Psi. Surf. Csg., R/U Pump, SDFN (TO WINDY TO RIG UP)			
4:00pm	5:00pm	Crew Travel			

1st Tally

EDIT FORMULA

CUSTOMER	Merit Energy
WELL	ARE W 2-10
DATE	2/22/2016
COUNTY	Summit
STATE	Utah
CO. REP.	Mel Wren

	BHA	
1	Slotted Sub	9.78
2		
3		
4		
5		
6		
7		
8		
9		
10		
	TOTAL	9.78

RBS TOOLS INC		OD	ID	WT/FT	DRIFT
P.O. BOX 1253	TBG	2.875	2.441	6.5	2.347
ROOSEVELT UTAH	CSG	7	7	6.184	29
84066	LINER				
435-823-8928	LINER TOP		FLUID PPG		BOY FACTO
	KB	21	TBG BPF	0.00579	
TRAVIS ROHRER	JTS ON LOC		CSG BPF	0.04760	
	# TALLIED	476	CSG ANN	0.03957	
FISH TOP	JT AVE	31.10	LINER BPF	0.00000	
2ND FISH TOP			LINER ANN	-0.00803	

#	JTS IN	JTS OUT	JT LENGTH	TOTAL TUBING	TBG + BHA + KB	TBG VOLUME	CSG ANN VOLUME	STRING WEIGHT	LINER ANN VOLUME	TO FISH TOP	2ND FISH TOP
1	1	-1	29.20	29.20	59.98	0.17	1.16	190	-0.48	-59.98	-59.98
2	2	-2	30.75	59.95	90.73	0.35	2.37	390	-0.73	-90.73	-90.73
3	3	-3	29.08	89.03	119.81	0.52	3.52	579	-0.96	-119.81	-119.81
4	4	-4	30.70	119.73	150.51	0.69	4.74	778	-1.21	-150.51	-150.51
5	5	-5	30.77	150.50	181.28	0.87	5.96	978	-1.46	-181.28	-181.28
6	6	-6	30.46	180.96	211.74	1.05	7.16	1176	-1.70	-211.74	-211.74
7	7	-7	30.33	211.29	242.07	1.22	8.36	1373	-1.94	-242.07	-242.07
8	8	-8	30.38	241.67	272.45	1.40	9.56	1571	-2.19	-272.45	-272.45
9	9	-9	30.10	271.77	302.55	1.57	10.75	1767	-2.43	-302.55	-302.55
10	10	-10	31.33	303.10	333.88	1.75	11.99	1970	-2.68	-333.88	-333.88
Length of 10				303.10							
11	11	-11	30.56	333.66	364.44	1.93	13.20	2169	-2.93	-364.44	-364.44
12	12	-12	31.18	364.84	395.62	2.11	14.44	2371	-3.18	-395.62	-395.62
13	13	-13	30.23	395.07	425.85	2.29	15.63	2568	-3.42	-425.85	-425.85
14	14	-14	30.27	425.34	456.12	2.46	16.83	2765	-3.66	-456.12	-456.12
15	15	-15	30.62	455.96	486.74	2.64	18.04	2964	-3.91	-486.74	-486.74
16	16	-16	30.23	486.19	516.97	2.81	19.24	3160	-4.15	-516.97	-516.97
17	17	-17	31.17	517.36	548.14	2.99	20.47	3363	-4.40	-548.14	-548.14
18	18	-18	30.46	547.82	578.60	3.17	21.68	3561	-4.65	-578.60	-578.60
19	19	-19	31.20	579.02	609.80	3.35	22.91	3764	-4.90	-609.80	-609.80
20	20	-20	29.91	608.93	639.71	3.52	24.09	3958	-5.14	-639.71	-639.71
Length of 10				305.83							
21	21	-21	30.45	639.38	670.16	3.70	25.30	4156	-5.38	-670.16	-670.16
22	22	-22	28.42	667.80	698.58	3.87	26.42	4341	-5.61	-698.58	-698.58
23	23	-23	29.48	697.28	728.06	4.04	27.59	4532	-5.85	-728.06	-728.06
24	24	-24	30.78	728.06	758.84	4.21	28.81	4732	-6.09	-758.84	-758.84
25	25	-25	31.44	759.50	790.28	4.40	30.05	4937	-6.35	-790.28	-790.28
26	26	-26	28.84	788.34	819.12	4.56	31.19	5124	-6.58	-819.12	-819.12
27	27	-27	30.12	818.46	849.24	4.74	32.39	5320	-6.82	-849.24	-849.24
28	28	-28	30.50	848.96	879.74	4.91	33.59	5518	-7.06	-879.74	-879.74
29	29	-29	31.25	880.21	910.99	5.09	34.83	5721	-7.31	-910.99	-910.99
30	30	-30	31.43	911.64	942.42	5.28	36.07	5926	-7.57	-942.42	-942.42
Length of 10				302.71							
31	31	-31	31.72	943.36	974.14	5.46	37.33	6132	-7.82	-974.14	-974.14
32	32	-32	29.76	973.12	1003.90	5.63	38.51	6325	-8.06	-1003.90	-1003.90
33	33	-33	29.95	1003.07	1033.85	5.81	39.69	6520	-8.30	-1033.85	-1033.85
34	34	-34	28.10	1031.17	1061.95	5.97	40.80	6703	-8.53	-1061.95	-1061.95
35	35	-35	30.36	1061.53	1092.31	6.14	42.00	6900	-8.77	-1092.31	-1092.31
36	36	-36	28.70	1090.23	1121.01	6.31	43.14	7086	-9.00	-1121.01	-1121.01
37	37	-37	30.33	1120.56	1151.34	6.49	44.34	7284	-9.24	-1151.34	-1151.34
38	38	-38	31.40	1151.96	1182.74	6.67	45.58	7488	-9.50	-1182.74	-1182.74

#	JTS IN	JTS OUT	JT LENGTH	TOTAL TUBING	TBG + BHA + KB	TBG VOLUME	CSG ANN VOLUME	STRING WEIGHT	LINER ANN VOLUME	TO FISH TOP	2ND FISH TOP
39	39	-39	31.58	1183.54	1214.32	6.85	46.83	7693	-9.75	**-1214.32**	**-1214.32**
40	40	-40	28.80	1212.34	1243.12	7.02	47.97	7880	-9.98	**-1243.12**	**-1243.12**
Length of 10				**300.70**							
41	41	-41	27.90	1240.24	1271.02	7.18	49.08	8062	-10.21	**-1271.02**	**-1271.02**
42	42	-42	30.53	1270.77	1301.55	7.36	50.28	8260	-10.45	**-1301.55**	**-1301.55**
43	43	-43	31.54	1302.31	1333.09	7.54	51.53	8465	-10.70	**-1333.09**	**-1333.09**
44	44	-44	30.60	1332.91	1363.69	7.72	52.74	8664	-10.95	**-1363.69**	**-1363.69**
45	45	-45	28.75	1361.66	1392.44	7.88	53.88	8851	-11.18	**-1392.44**	**-1392.44**
46	46	-46	29.25	1390.91	1421.69	8.05	55.04	9041	-11.42	**-1421.69**	**-1421.69**
47	47	-47	31.40	1422.31	1453.09	8.23	56.28	9245	-11.67	**-1453.09**	**-1453.09**
48	48	-48	29.12	1451.43	1482.21	8.40	57.43	9434	-11.90	**-1482.21**	**-1482.21**
49	49	-49	29.15	1480.58	1511.36	8.57	58.59	9624	-12.14	**-1511.36**	**-1511.36**
50	50	-50	31.46	1512.04	1542.82	8.75	59.83	9828	-12.39	**-1542.82**	**-1542.82**
Length of 10				**299.70**							
51	51	-51	29.35	1541.39	1572.17	8.92	60.99	10019	-12.62	**-1572.17**	**-1572.17**
52	52	-52	31.48	1572.87	1603.65	9.10	62.24	10224	-12.88	**-1603.65**	**-1603.65**
53	53	-53	31.42	1604.29	1635.07	9.29	63.48	10428	-13.13	**-1635.07**	**-1635.07**
54	54	-54	31.36	1635.65	1666.43	9.47	64.72	10632	-13.38	**-1666.43**	**-1666.43**
55	55	-55	29.12	1664.77	1695.55	9.64	65.87	10821	-13.61	**-1695.55**	**-1695.55**
56	56	-56	31.54	1696.31	1727.09	9.82	67.12	11026	-13.87	**-1727.09**	**-1727.09**
57	57	-57	29.42	1725.73	1756.51	9.99	68.29	11217	-14.10	**-1756.51**	**-1756.51**
58	58	-58	29.40	1755.13	1785.91	10.16	69.45	11408	-14.34	**-1785.91**	**-1785.91**
59	59	-59	30.90	1786.03	1816.81	10.34	70.67	11609	-14.59	**-1816.81**	**-1816.81**
60	60	-60	29.74	1815.77	1846.55	10.51	71.85	11803	-14.83	**-1846.55**	**-1846.55**
Length of 10				**303.73**							
61	61	-61	31.46	1847.23	1878.01	10.69	73.09	12007	-15.08	**-1878.01**	**-1878.01**
62	62	-62	30.75	1877.98	1908.76	10.87	74.31	12207	-15.33	**-1908.76**	**-1908.76**
63	63	-63	31.43	1909.41	1940.19	11.05	75.55	12411	-15.58	**-1940.19**	**-1940.19**
64	64	-64	31.47	1940.88	1971.66	11.23	76.80	12616	-15.83	**-1971.66**	**-1971.66**
65	65	-65	30.98	1971.86	2002.64	11.41	78.03	12817	-16.08	**-2002.64**	**-2002.64**
66	66	-66	31.60	2003.46	2034.24	11.60	79.28	13022	-16.33	**-2034.24**	**-2034.24**
67	67	-67	28.62	2032.08	2062.86	11.76	80.41	13209	-16.56	**-2062.86**	**-2062.86**
68	68	-68	30.50	2062.58	2093.36	11.94	81.61	13407	-16.81	**-2093.36**	**-2093.36**
69	69	-69	31.00	2093.58	2124.36	12.12	82.84	13608	-17.06	**-2124.36**	**-2124.36**
70	70	-70	29.55	2123.13	2153.91	12.29	84.01	13800	-17.29	**-2153.91**	**-2153.91**
Length of 10				**307.36**							
71	71	-71	31.15	2154.28	2185.06	12.47	85.24	14003	-17.54	**-2185.06**	**-2185.06**
72	72	-72	29.78	2184.06	2214.84	12.64	86.42	14196	-17.78	**-2214.84**	**-2214.84**
73	73	-73	31.65	2215.71	2246.49	12.83	87.67	14402	-18.04	**-2246.49**	**-2246.49**
74	74	-74	30.66	2246.37	2277.15	13.00	88.89	14601	-18.28	**-2277.15**	**-2277.15**
75	75	-75	30.70	2277.07	2307.85	13.18	90.10	14801	-18.53	**-2307.85**	**-2307.85**
76	76	-76	29.41	2306.48	2337.26	13.35	91.27	14992	-18.77	**-2337.26**	**-2337.26**
77	77	-77	28.90	2335.38	2366.16	13.52	92.41	15180	-19.00	**-2366.16**	**-2366.16**
78	78	-78	31.50	2366.88	2397.66	13.70	93.66	15385	-19.25	**-2397.66**	**-2397.66**
79	79	-79	31.64	2398.52	2429.30	13.88	94.91	15590	-19.51	**-2429.30**	**-2429.30**
80	80	-80	29.45	2427.97	2458.75	14.05	96.07	15782	-19.74	**-2458.75**	**-2458.75**
Length of 10				**304.84**							
81	81	-81	29.52	2457.49	2488.27	14.22	97.24	15974	-19.98	**-2488.27**	**-2488.27**
82	82	-82	31.48	2488.97	2519.75	14.41	98.49	16178	-20.23	**-2519.75**	**-2519.75**
83	83	-83	28.80	2517.77	2548.55	14.57	99.63	16366	-20.46	**-2548.55**	**-2548.55**
84	84	-84	31.54	2549.31	2580.09	14.76	100.87	16571	-20.72	**-2580.09**	**-2580.09**
85	85	-85	28.80	2578.11	2608.89	14.92	102.01	16758	-20.95	**-2608.89**	**-2608.89**
86	86	-86	28.68	2606.79	2637.57	15.09	103.15	16944	-21.18	**-2637.57**	**-2637.57**
87	87	-87	31.50	2638.29	2669.07	15.27	104.40	17149	-21.43	**-2669.07**	**-2669.07**
88	88	-88	29.73	2668.02	2698.80	15.44	105.57	17342	-21.67	**-2698.80**	**-2698.80**
89	89	-89	30.18	2698.20	2728.98	15.62	106.77	17538	-21.91	**-2728.98**	**-2728.98**
90	90	-90	30.30	2728.50	2759.28	15.79	107.97	17735	-22.15	**-2759.28**	**-2759.28**
Length of 10				**300.53**							
91	91	-91	29.30	2757.80	2788.58	15.96	109.12	17926	-22.39	**-2788.58**	**-2788.58**

#	JTS IN	JTS OUT	JT LENGTH	TOTAL TUBING	TBG + BHA + KB	TBG VOLUME	CSG ANN VOLUME	STRING WEIGHT	LINER ANN VOLUME	TO FISH TOP	2ND FISH TOP
92	92	-92	30.23	2788.03	2818.81	16.14	110.32	18122	-22.63	**-2818.81**	**-2818.81**
93	93	-93	29.30	2817.33	2848.11	16.31	111.48	18313	-22.87	**-2848.11**	**-2848.11**
94	94	-94	30.28	2847.61	2878.39	16.48	112.68	18509	-23.11	**-2878.39**	**-2878.39**
95	95	-95	30.30	2877.91	2908.69	16.66	113.88	18706	-23.35	**-2908.69**	**-2908.69**
96	96	-96	31.30	2909.21	2939.99	16.84	115.12	18910	-23.61	**-2939.99**	**-2939.99**
97	97	-97	30.67	2939.88	2970.66	17.02	116.33	19109	-23.85	**-2970.66**	**-2970.66**
98	98	-98	31.55	2971.43	3002.21	17.20	117.58	19314	-24.11	**-3002.21**	**-3002.21**
99	99	-99	31.83	3003.26	3034.04	17.38	118.84	19521	-24.36	**-3034.04**	**-3034.04**
100	100	-100	29.73	3032.99	3063.77	17.56	120.01	19714	-24.60	**-3063.77**	**-3063.77**
Length of 10				**304.49**							
101	101	-101	29.18	3062.17	3092.95	17.72	121.17	19904	-24.83	**-3092.95**	**-3092.95**
102	102	-102	28.02	3090.19	3120.97	17.89	122.28	20086	-25.06	**-3120.97**	**-3120.97**
103	103	-103	31.45	3121.64	3152.42	18.07	123.52	20291	-25.31	**-3152.42**	**-3152.42**
104	104	-104	30.40	3152.04	3182.82	18.24	124.72	20488	-25.56	**-3182.82**	**-3182.82**
105	105	-105	29.50	3181.54	3212.32	18.42	125.89	20680	-25.79	**-3212.32**	**-3212.32**
106	106	-106	31.53	3213.07	3243.85	18.60	127.14	20885	-26.05	**-3243.85**	**-3243.85**
107	107	-107	31.50	3244.57	3275.35	18.78	128.39	21090	-26.30	**-3275.35**	**-3275.35**
108	108	-108	29.81	3274.38	3305.16	18.95	129.57	21283	-26.54	**-3305.16**	**-3305.16**
109	109	-109	31.45	3305.83	3336.61	19.14	130.81	21488	-26.79	**-3336.61**	**-3336.61**
110	110	-110	31.73	3337.56	3368.34	19.32	132.07	21694	-27.05	**-3368.34**	**-3368.34**
Length of 10				**304.57**							
111	111	-111	30.62	3368.18	3398.96	19.50	133.28	21893	-27.29	**-3398.96**	**-3398.96**
112	112	-112	30.96	3399.14	3429.92	19.68	134.50	22094	-27.54	**-3429.92**	**-3429.92**
113	113	-113	29.40	3428.54	3459.32	19.85	135.67	22286	-27.78	**-3459.32**	**-3459.32**
114	114	-114	30.87	3459.41	3490.19	20.02	136.89	22486	-28.02	**-3490.19**	**-3490.19**
115	115	-115	32.00	3491.41	3522.19	20.21	138.15	22694	-28.28	**-3522.19**	**-3522.19**
116	116	-116	28.40	3519.81	3550.59	20.37	139.28	22879	-28.51	**-3550.59**	**-3550.59**
117	117	-117	31.56	3551.37	3582.15	20.56	140.53	23084	-28.76	**-3582.15**	**-3582.15**
118	118	-118	30.90	3582.27	3613.05	20.74	141.75	23285	-29.01	**-3613.05**	**-3613.05**
119	119	-119	31.56	3613.83	3644.61	20.92	143.00	23490	-29.26	**-3644.61**	**-3644.61**
120	120	-120	31.47	3645.30	3676.08	21.10	144.24	23694	-29.52	**-3676.08**	**-3676.08**
Length of 10				**307.74**							
121	121	-121	28.25	3673.55	3704.33	21.26	145.36	23878	-29.74	**-3704.33**	**-3704.33**
122	122	-122	31.56	3705.11	3735.89	21.45	146.61	24083	-30.00	**-3735.89**	**-3735.89**
123	123	-123	31.47	3736.58	3767.36	21.63	147.85	24288	-30.25	**-3767.36**	**-3767.36**
124	124	-124	31.56	3768.14	3798.92	21.81	149.10	24493	-30.50	**-3798.92**	**-3798.92**
125	125	-125	30.15	3798.29	3829.07	21.99	150.30	24689	-30.74	**-3829.07**	**-3829.07**
126	126	-126	29.40	3827.69	3858.47	22.16	151.46	24880	-30.98	**-3858.47**	**-3858.47**
127	127	-127	31.45	3859.14	3889.92	22.34	152.70	25084	-31.23	**-3889.92**	**-3889.92**
128	128	-128	31.50	3890.64	3921.42	22.52	153.95	25289	-31.49	**-3921.42**	**-3921.42**
129	129	-129	31.43	3922.07	3952.85	22.70	155.19	25493	-31.74	**-3952.85**	**-3952.85**
130	130	-130	31.47	3953.54	3984.32	22.88	156.44	25698	-31.99	**-3984.32**	**-3984.32**
Length of 10				**308.24**							
131	131	-131	31.65	3985.19	4015.97	23.07	157.69	25904	-32.25	**-4015.97**	**-4015.97**
132	132	-132	31.53	4016.72	4047.50	23.25	158.94	26109	-32.50	**-4047.50**	**-4047.50**
133	133	-133	30.15	4046.87	4077.65	23.42	160.13	26305	-32.74	**-4077.65**	**-4077.65**
134	134	-134	31.50	4078.37	4109.15	23.61	161.38	26509	-32.99	**-4109.15**	**-4109.15**
135	135	-135	31.14	4109.51	4140.29	23.79	162.61	26712	-33.24	**-4140.29**	**-4140.29**
136	136	-136	31.60	4141.11	4171.89	23.97	163.86	26917	-33.50	**-4171.89**	**-4171.89**
137	137	-137	31.05	4172.16	4202.94	24.15	165.09	27119	-33.75	**-4202.94**	**-4202.94**
138	138	-138	30.22	4202.38	4233.16	24.32	166.29	27315	-33.99	**-4233.16**	**-4233.16**
139	139	-139	31.63	4234.01	4264.79	24.51	167.54	27521	-34.24	**-4264.79**	**-4264.79**
140	140	-140	31.50	4265.51	4296.29	24.69	168.78	27726	-34.50	**-4296.29**	**-4296.29**
Length of 10				**311.97**							
141	141	-141	30.70	4296.21	4326.99	24.87	170.00	27925	-34.74	**-4326.99**	**-4326.99**
142	142	-142	30.02	4326.23	4357.01	25.04	171.19	28120	-34.98	**-4357.01**	**-4357.01**
143	143	-143	31.50	4357.73	4388.51	25.22	172.43	28325	-35.24	**-4388.51**	**-4388.51**
144	144	-144	28.25	4385.98	4416.76	25.39	173.55	28509	-35.46	**-4416.76**	**-4416.76**
145	145	-145	29.45	4415.43	4446.21	25.56	174.72	28700	-35.70	**-4446.21**	**-4446.21**

#	JTS IN	JTS OUT	JT LENGTH	TOTAL TUBING	TBG + BHA + KB	TBG VOLUME	CSG ANN VOLUME	STRING WEIGHT	LINER ANN VOLUME	1ST FISH TOP	2ND FISH TOP
146	146	-146	31.60	4447.03	4477.81	25.74	175.97	28906	-35.95	**-4477.81**	**-4477.81**
147	147	-147	29.97	4477.00	4507.78	25.91	177.15	29101	-36.19	**-4507.78**	**-4507.78**
148	148	-148	31.58	4508.58	4539.36	26.10	178.40	29306	-36.45	**-4539.36**	**-4539.36**
149	149	-149	31.32	4539.90	4570.68	26.28	179.64	29509	-36.70	**-4570.68**	**-4570.68**
150	150	-150	31.65	4571.55	4602.33	26.46	180.89	29715	-36.95	**-4602.33**	**-4602.33**
Length of 10				**306.04**							
151	151	-151	31.50	4603.05	4633.83	26.64	182.14	29920	-37.21	**-4633.83**	**-4633.83**
152	152	-152	28.62	4631.67	4662.45	26.81	183.27	30106	-37.44	**-4662.45**	**-4662.45**
153	153	-153	31.45	4663.12	4693.90	26.99	184.52	30310	-37.69	**-4693.90**	**-4693.90**
154	154	-154	28.30	4691.42	4722.20	27.16	185.64	30494	-37.92	**-4722.20**	**-4722.20**
155	155	-155	29.75	4721.17	4751.95	27.33	186.81	30688	-38.15	**-4751.95**	**-4751.95**
156	156	-156	31.60	4752.77	4783.55	27.51	188.06	30893	-38.41	**-4783.55**	**-4783.55**
157	157	-157	32.05	4784.82	4815.60	27.70	189.33	31101	-38.67	**-4815.60**	**-4815.60**
158	158	-158	29.70	4814.52	4845.30	27.87	190.51	31294	-38.90	**-4845.30**	**-4845.30**
159	159	-159	31.75	4846.27	4877.05	28.05	191.76	31501	-39.16	**-4877.05**	**-4877.05**
160	160	-160	31.60	4877.87	4908.65	28.23	193.01	31706	-39.41	**-4908.65**	**-4908.65**
Length of 10				**306.32**							
161	161	-161	29.43	4907.30	4938.08	28.40	194.18	31897	-39.65	**-4938.08**	**-4938.08**
162	162	-162	29.85	4937.15	4967.93	28.58	195.36	32091	-39.89	**-4967.93**	**-4967.93**
163	163	-163	31.80	4968.95	4999.73	28.76	196.62	32298	-40.14	**-4999.73**	**-4999.73**
164	164	-164	30.42	4999.37	5030.15	28.94	197.82	32496	-40.39	**-5030.15**	**-5030.15**
165	165	-165	31.47	5030.84	5061.62	29.12	199.07	32700	-40.64	**-5061.62**	**-5061.62**
166	166	-166	31.60	5062.44	5093.22	29.30	200.32	32906	-40.89	**-5093.22**	**-5093.22**
167	167	-167	30.70	5093.14	5123.92	29.48	201.53	33105	-41.14	**-5123.92**	**-5123.92**
168	168	-168	30.45	5123.59	5154.37	29.66	202.74	33303	-41.39	**-5154.37**	**-5154.37**
169	169	-169	30.76	5154.35	5185.13	29.83	203.95	33503	-41.63	**-5185.13**	**-5185.13**
170	170	-170	31.46	5185.81	5216.59	30.02	205.20	33708	-41.89	**-5216.59**	**-5216.59**
Length of 10				**307.94**							
171	171	-171	28.83	5214.64	5245.42	30.18	206.34	33895	-42.12	**-5245.42**	**-5245.42**
172	172	-172	31.52	5246.16	5276.94	30.37	207.59	34100	-42.37	**-5276.94**	**-5276.94**
173	173	-173	28.28	5274.44	5305.22	30.53	208.71	34284	-42.60	**-5305.22**	**-5305.22**
174	174	-174	28.73	5303.17	5333.95	30.70	209.84	34471	-42.83	**-5333.95**	**-5333.95**
175	175	-175	30.58	5333.75	5364.53	30.87	211.05	34669	-43.07	**-5364.53**	**-5364.53**
176	176	-176	31.52	5365.27	5396.05	31.06	212.30	34874	-43.33	**-5396.05**	**-5396.05**
177	177	-177	29.76	5395.03	5425.81	31.23	213.48	35068	-43.57	**-5425.81**	**-5425.81**
178	178	-178	31.55	5426.58	5457.36	31.41	214.73	35273	-43.82	**-5457.36**	**-5457.36**
179	179	-179	30.62	5457.20	5487.98	31.59	215.94	35472	-44.06	**-5487.98**	**-5487.98**
180	180	-180	29.23	5486.43	5517.21	31.76	217.09	35662	-44.30	**-5517.21**	**-5517.21**
Length of 10				**300.62**							
181	181	-181	29.63	5516.06	5546.84	31.93	218.27	35854	-44.54	**-5546.84**	**-5546.84**
182	182	-182	31.88	5547.94	5578.72	32.11	219.53	36062	-44.79	**-5578.72**	**-5578.72**
183	183	-183	31.55	5579.49	5610.27	32.30	220.78	36267	-45.05	**-5610.27**	**-5610.27**
184	184	-184	32.05	5611.54	5642.32	32.48	222.05	36475	-45.30	**-5642.32**	**-5642.32**
185	185	-185	31.60	5643.14	5673.92	32.66	223.30	36680	-45.56	**-5673.92**	**-5673.92**
186	186	-186	30.50	5673.64	5704.42	32.84	224.50	36879	-45.80	**-5704.42**	**-5704.42**
187	187	-187	31.63	5705.27	5736.05	33.02	225.75	37084	-46.06	**-5736.05**	**-5736.05**
188	188	-188	31.92	5737.19	5767.97	33.21	227.02	37292	-46.31	**-5767.97**	**-5767.97**
189	189	-189	29.44	5766.63	5797.41	33.38	228.18	37483	-46.55	**-5797.41**	**-5797.41**
190	190	-190	31.53	5798.16	5828.94	33.56	229.43	37688	-46.80	**-5828.94**	**-5828.94**
Length of 10				**311.73**							
191	191	-191	29.27	5827.43	5858.21	33.73	230.59	37878	-47.04	**-5858.21**	**-5858.21**
192	192	-192	29.92	5857.35	5888.13	33.90	231.77	38073	-47.28	**-5888.13**	**-5888.13**
193	193	-193	31.54	5888.89	5919.67	34.09	233.02	38278	-47.53	**-5919.67**	**-5919.67**
194	194	-194	31.60	5920.49	5951.27	34.27	234.27	38483	-47.78	**-5951.27**	**-5951.27**
195	195	-195	28.90	5949.39	5980.17	34.44	235.41	38671	-48.02	**-5980.17**	**-5980.17**
196	196	-196	32.10	5981.49	6012.27	34.62	236.68	38880	-48.27	**-6012.27**	**-6012.27**
197	197	-197	30.07	6011.56	6042.34	34.80	237.87	39075	-48.52	**-6042.34**	**-6042.34**
198	198	-198	30.36	6041.92	6072.70	34.97	239.07	39272	-48.76	**-6072.70**	**-6072.70**
199	199	-199	30.25	6072.17	6102.95	35.15	240.27	39469	-49.00	**-6102.95**	**-6102.95**

#	JTS IN	JTS OUT	JT LENGTH	TOTAL TUBING	TBG + BHA + KB	TBG VOLUME	CSG ANN VOLUME	STRING WEIGHT	LINER ANN VOLUME	TOP	2ND FISH TOP
200	200	-200	29.27	6101.44	6132.22	35.32	241.43	39659	-49.24	**-6132.22**	**-6132.22**
Length of 10				**303.28**							
201	201	-201	28.15	6129.59	6160.37	35.48	242.54	39842	-49.46	**-6160.37**	**-6160.37**
202	202	-202	30.20	6159.79	6190.57	35.65	243.74	40039	-49.71	**-6190.57**	**-6190.57**
203	203	-203	30.25	6190.04	6220.82	35.83	244.94	40235	-49.95	**-6220.82**	**-6220.82**
204	204	-204	29.25	6219.29	6250.07	36.00	246.09	40425	-50.18	**-6250.07**	**-6250.07**
205	205	-205	29.65	6248.94	6279.72	36.17	247.27	40618	-50.42	**-6279.72**	**-6279.72**
206	206	-206	31.54	6280.48	6311.26	36.35	248.51	40823	-50.67	**-6311.26**	**-6311.26**
207	207	-207	31.67	6312.15	6342.93	36.54	249.77	41029	-50.93	**-6342.93**	**-6342.93**
208	208	-208	31.49	6343.64	6374.42	36.72	251.01	41234	-51.18	**-6374.42**	**-6374.42**
209	209	-209	31.52	6375.16	6405.94	36.90	252.26	41439	-51.43	**-6405.94**	**-6405.94**
210	210	-210	31.50	6406.66	6437.44	37.08	253.51	41643	-51.69	**-6437.44**	**-6437.44**
Length of 10				**305.22**							
211	211	-211	31.45	6438.11	6468.89	37.27	254.75	41848	-51.94	**-6468.89**	**-6468.89**
212	212	-212	31.52	6469.63	6500.41	37.45	256.00	42053	-52.19	**-6500.41**	**-6500.41**
213	213	-213	31.60	6501.23	6532.01	37.63	257.25	42258	-52.45	**-6532.01**	**-6532.01**
214	214	-214	29.10	6530.33	6561.11	37.80	258.40	42447	-52.68	**-6561.11**	**-6561.11**
215	215	-215	32.60	6562.93	6593.71	37.99	259.69	42659	-52.94	**-6593.71**	**-6593.71**
216	216	-216	32.65	6595.58	6626.36	38.18	260.98	42871	-53.20	**-6626.36**	**-6626.36**
217	217	-217	32.57	6628.15	6658.93	38.37	262.27	43083	-53.47	**-6658.93**	**-6658.93**
218	218	-218	32.60	6660.75	6691.53	38.55	263.56	43295	-53.73	**-6691.53**	**-6691.53**
219	219	-219	32.50	6693.25	6724.03	38.74	264.85	43506	-53.99	**-6724.03**	**-6724.03**
220	220	-220	32.58	6725.83	6756.61	38.93	266.14	43718	-54.25	**-6756.61**	**-6756.61**
Length of 10				**319.17**							
221	221	-221	32.63	6758.46	6789.24	39.12	267.43	43930	-54.51	**-6789.24**	**-6789.24**
222	222	-222	32.57	6791.03	6821.81	39.31	268.72	44142	-54.77	**-6821.81**	**-6821.81**
223	223	-223	32.55	6823.58	6854.36	39.50	270.00	44353	-55.04	**-6854.36**	**-6854.36**
224	224	-224	32.60	6856.18	6886.96	39.69	271.29	44565	-55.30	**-6886.96**	**-6886.96**
225	225	-225	30.78	6886.96	6917.74	39.86	272.51	44765	-55.54	**-6917.74**	**-6917.74**
226	226	-226	32.60	6919.56	6950.34	40.05	273.80	44977	-55.81	**-6950.34**	**-6950.34**
227	227	-227	32.65	6952.21	6982.99	40.24	275.09	45189	-56.07	**-6982.99**	**-6982.99**
228	228	-228	32.62	6984.83	7015.61	40.43	276.39	45401	-56.33	**-7015.61**	**-7015.61**
229	229	-229	31.60	7016.43	7047.21	40.61	277.64	45607	-56.58	**-7047.21**	**-7047.21**
230	230	-230	31.78	7048.21	7078.99	40.80	278.89	45813	-56.84	**-7078.99**	**-7078.99**
Length of 10				**322.38**							
231	231	-231	32.50	7080.71	7111.49	40.99	280.18	46025	-57.10	**-7111.49**	**-7111.49**
232	232	-232	32.45	7113.16	7143.94	41.17	281.46	46236	-57.36	**-7143.94**	**-7143.94**
233	233	-233	32.47	7145.63	7176.41	41.36	282.75	46447	-57.62	**-7176.41**	**-7176.41**
234	234	-234	32.55	7178.18	7208.96	41.55	284.04	46658	-57.88	**-7208.96**	**-7208.96**
235	235	-235	32.56	7210.74	7241.52	41.74	285.32	46870	-58.14	**-7241.52**	**-7241.52**
236	236	-236	32.52	7243.26	7274.04	41.93	286.61	47081	-58.40	**-7274.04**	**-7274.04**
237	237	-237	30.00	7273.26	7304.04	42.10	287.80	47276	-58.65	**-7304.04**	**-7304.04**
238	238	-238	32.53	7305.79	7336.57	42.29	289.09	47488	-58.91	**-7336.57**	**-7336.57**
239	239	-239	32.52	7338.31	7369.09	42.48	290.37	47699	-59.17	**-7369.09**	**-7369.09**
240	240	-240	32.53	7370.84	7401.62	42.66	291.66	47910	-59.43	**-7401.62**	**-7401.62**
Length of 10				**322.63**							
241	241	-241	30.68	7401.52	7432.30	42.84	292.87	48110	-59.68	**-7432.30**	**-7432.30**
242	242	-242	31.55	7433.07	7463.85	43.02	294.12	48315	-59.93	**-7463.85**	**-7463.85**
243	243	-243	32.64	7465.71	7496.49	43.21	295.41	48527	-60.19	**-7496.49**	**-7496.49**
244	244	-244	32.55	7498.26	7529.04	43.40	296.70	48739	-60.45	**-7529.04**	**-7529.04**
245	245	-245	32.72	7530.98	7561.76	43.59	298.00	48951	-60.72	**-7561.76**	**-7561.76**
246	246	-246	32.60	7563.58	7594.36	43.78	299.29	49163	-60.98	**-7594.36**	**-7594.36**
247	247	-247	31.44	7595.02	7625.80	43.96	300.53	49368	-61.23	**-7625.80**	**-7625.80**
248	248	-248	32.68	7627.70	7658.48	44.15	301.82	49580	-61.49	**-7658.48**	**-7658.48**
249	249	-249	32.60	7660.30	7691.08	44.34	303.11	49792	-61.75	**-7691.08**	**-7691.08**
250	250	-250	32.75	7693.05	7723.83	44.53	304.41	50005	-62.02	**-7723.83**	**-7723.83**
Length of 10				**322.21**							
251	251	-251	32.54	7725.59	7756.37	44.72	305.70	50216	-62.28	**-7756.37**	**-7756.37**
252	252	-252	32.65	7758.24	7789.02	44.91	306.99	50429	-62.54	**-7789.02**	**-7789.02**

#	JTS IN	JTS OUT	JT LENGTH	TOTAL TUBING	TBG + BHA + KB	TBG VOLUME	CSG ANN VOLUME	STRING WEIGHT	LINER ANN VOLUME	TO FISH TOP	2ND FISH TOP
253	253	-253	31.48	7789.72	7820.50	45.09	308.23	50633	-62.79	**-7820.50**	**-7820.50**
254	254	-254	32.65	7822.37	7853.15	45.28	309.53	50845	-63.05	**-7853.15**	**-7853.15**
255	255	-255	32.62	7854.99	7885.77	45.47	310.82	51057	-63.32	**-7885.77**	**-7885.77**
256	256	-256	32.75	7887.74	7918.52	45.66	312.11	51270	-63.58	**-7918.52**	**-7918.52**
257	257	-257	32.60	7920.34	7951.12	45.85	313.40	51482	-63.84	**-7951.12**	**-7951.12**
258	258	-258	32.68	7953.02	7983.80	46.03	314.70	51695	-64.10	**-7983.80**	**-7983.80**
259	259	-259	32.50	7985.52	8016.30	46.22	315.98	51906	-64.36	**-8016.30**	**-8016.30**
260	260	-260	32.50	8018.02	8048.80	46.41	317.27	52117	-64.63	**-8048.80**	**-8048.80**
Length of 10				**324.97**							
261	261	-261	29.75	8047.77	8078.55	46.58	318.45	52311	-64.86	**-8078.55**	**-8078.55**
262	262	-262	30.82	8078.59	8109.37	46.76	319.66	52511	-65.11	**-8109.37**	**-8109.37**
263	263	-263	32.46	8111.05	8141.83	46.95	320.95	52722	-65.37	**-8141.83**	**-8141.83**
264	264	-264	32.45	8143.50	8174.28	47.14	322.23	52933	-65.63	**-8174.28**	**-8174.28**
265	265	-265	32.52	8176.02	8206.80	47.33	323.52	53144	-65.89	**-8206.80**	**-8206.80**
266	266	-266	32.53	8208.55	8239.33	47.51	324.81	53356	-66.16	**-8239.33**	**-8239.33**
267	267	-267	32.45	8241.00	8271.78	47.70	326.09	53567	-66.42	**-8271.78**	**-8271.78**
268	268	-268	31.56	8272.56	8303.34	47.88	327.34	53772	-66.67	**-8303.34**	**-8303.34**
269	269	-269	31.43	8303.99	8334.77	48.07	328.58	53976	-66.92	**-8334.77**	**-8334.77**
270	270	-270	31.47	8335.46	8366.24	48.25	329.83	54180	-67.17	**-8366.24**	**-8366.24**
Length of 10				**317.44**							
271	271	-271	31.50	8366.96	8397.74	48.43	331.08	54385	-67.43	**-8397.74**	**-8397.74**
272	272	-272	30.57	8397.53	8428.31	48.61	332.28	54584	-67.67	**-8428.31**	**-8428.31**
273	273	-273	30.50	8428.03	8458.81	48.78	333.49	54782	-67.92	**-8458.81**	**-8458.81**
274	274	-274	31.60	8459.63	8490.41	48.97	334.74	54988	-68.17	**-8490.41**	**-8490.41**
275	275	-275	31.25	8490.88	8521.66	49.15	335.98	55191	-68.42	**-8521.66**	**-8521.66**
276	276	-276	31.47	8522.35	8553.13	49.33	337.22	55395	-68.68	**-8553.13**	**-8553.13**
277	277	-277	31.60	8553.95	8584.73	49.51	338.47	55601	-68.93	**-8584.73**	**-8584.73**
278	278	-278	29.07	8583.02	8613.80	49.68	339.62	55790	-69.16	**-8613.80**	**-8613.80**
279	279	-279	31.56	8614.58	8645.36	49.86	340.87	55995	-69.42	**-8645.36**	**-8645.36**
280	280	-280	31.54	8646.12	8676.90	50.05	342.12	56200	-69.67	**-8676.90**	**-8676.90**
Length of 10				**310.66**							
281	281	-281	30.75	8676.87	8707.65	50.22	343.34	56400	-69.92	**-8707.65**	**-8707.65**
282	282	-282	30.28	8707.15	8737.93	50.40	344.54	56596	-70.16	**-8737.93**	**-8737.93**
283	283	-283	31.46	8738.61	8769.39	50.58	345.78	56801	-70.41	**-8769.39**	**-8769.39**
284	284	-284	31.58	8770.19	8800.97	50.76	347.03	57006	-70.66	**-8800.97**	**-8800.97**
285	285	-285	31.55	8801.74	8832.52	50.95	348.28	57211	-70.92	**-8832.52**	**-8832.52**
286	286	-286	31.60	8833.34	8864.12	51.13	349.53	57417	-71.17	**-8864.12**	**-8864.12**
287	287	-287	31.55	8864.89	8895.67	51.31	350.78	57622	-71.43	**-8895.67**	**-8895.67**
288	288	-288	31.55	8896.44	8927.22	51.50	352.03	57827	-71.68	**-8927.22**	**-8927.22**
289	289	-289	31.53	8927.97	8958.75	51.68	353.27	58032	-71.93	**-8958.75**	**-8958.75**
290	290	-290	31.55	8959.52	8990.30	51.86	354.52	58237	-72.19	**-8990.30**	**-8990.30**
Length of 10				**313.40**							
291	291	-291	33.07	8992.59	9023.37	52.05	355.83	58452	-72.45	**-9023.37**	**-9023.37**
292	292	-292	30.43	9023.02	9053.80	52.23	357.04	58650	-72.70	**-9053.80**	**-9053.80**
293	293	-293	31.55	9054.57	9085.35	52.41	358.28	58855	-72.95	**-9085.35**	**-9085.35**
294	294	-294	30.65	9085.22	9116.00	52.59	359.50	59054	-73.19	**-9116.00**	**-9116.00**
295	295	-295	31.53	9116.75	9147.53	52.77	360.74	59259	-73.45	**-9147.53**	**-9147.53**
296	296	-296	31.60	9148.35	9179.13	52.95	361.99	59464	-73.70	**-9179.13**	**-9179.13**
297	297	-297	30.72	9179.07	9209.85	53.13	363.21	59664	-73.95	**-9209.85**	**-9209.85**
298	298	-298	30.64	9209.71	9240.49	53.31	364.42	59863	-74.19	**-9240.49**	**-9240.49**
299	299	-299	31.60	9241.31	9272.09	53.49	365.67	60069	-74.45	**-9272.09**	**-9272.09**
300	300	-300	31.55	9272.86	9303.64	53.67	366.92	60274	-74.70	**-9303.64**	**-9303.64**
Length of 10				**313.34**							
301	301	-301	31.53	9304.39	9335.17	53.86	368.17	60479	-74.95	**-9335.17**	**-9335.17**
302	302	-302	31.67	9336.06	9366.84	54.04	369.42	60684	-75.21	**-9366.84**	**-9366.84**
303	303	-303	32.52	9368.58	9399.36	54.23	370.71	60896	-75.47	**-9399.36**	**-9399.36**
304	304	-304	31.57	9400.15	9430.93	54.41	371.96	61101	-75.72	**-9430.93**	**-9430.93**
305	305	-305	31.60	9431.75	9462.53	54.59	373.21	61306	-75.98	**-9462.53**	**-9462.53**
306	306	-306	31.60	9463.35	9494.13	54.78	374.46	61512	-76.23	**-9494.13**	**-9494.13**

#	JTS IN	JTS OUT	JT LENGTH	TOTAL TUBING	TBG + BHA + KB	TBG VOLUME	CSG ANN VOLUME	STRING WEIGHT	LINER ANN VOLUME	1ST FISH TOP	2ND FISH TOP
307	307	-307	31.58	9494.93	9525.71	54.96	375.71	61717	-76.48	**-9525.71**	**-9525.71**
308	308	-308	31.57	9526.50	9557.28	55.14	376.96	61922	-76.74	**-9557.28**	**-9557.28**
309	309	-309	31.52	9558.02	9588.80	55.32	378.20	62127	-76.99	**-9588.80**	**-9588.80**
310	310	-310	31.53	9589.55	9620.33	55.51	379.45	62332	-77.24	**-9620.33**	**-9620.33**
Length of 10				**316.69**							
311	311	-311	31.55	9621.10	9651.88	55.69	380.70	62537	-77.50	**-9651.88**	**-9651.88**
312	312	-312	31.58	9652.68	9683.46	55.87	381.95	62742	-77.75	**-9683.46**	**-9683.46**
313	313	-313	31.53	9684.21	9714.99	56.06	383.20	62947	-78.00	**-9714.99**	**-9714.99**
314	314	-314	31.53	9715.74	9746.52	56.24	384.45	63152	-78.26	**-9746.52**	**-9746.52**
315	315	-315	31.60	9747.34	9778.12	56.42	385.70	63358	-78.51	**-9778.12**	**-9778.12**
316	316	-316	31.55	9778.89	9809.67	56.60	386.94	63563	-78.76	**-9809.67**	**-9809.67**
317	317	-317	31.56	9810.45	9841.23	56.79	388.19	63768	-79.02	**-9841.23**	**-9841.23**
318	318	-318	31.55	9842.00	9872.78	56.97	389.44	63973	-79.27	**-9872.78**	**-9872.78**
319	319	-319	31.60	9873.60	9904.38	57.15	390.69	64178	-79.52	**-9904.38**	**-9904.38**
320	320	-320	31.62	9905.22	9936.00	57.33	391.94	64384	-79.78	**-9936.00**	**-9936.00**
Length of 10				**315.67**							
321	321	-321	31.53	9936.75	9967.53	57.52	393.19	64589	-80.03	**-9967.53**	**-9967.53**
322	322	-322	31.64	9968.39	9999.17	57.70	394.44	64795	-80.29	**-9999.17**	**-9999.17**
323	323	-323	31.55	9999.94	10030.72	57.88	395.69	65000	-80.54	**-10030.72**	**-10030.72**
324	324	-324	31.55	10031.49	10062.27	58.07	396.94	65205	-80.79	**-10062.27**	**-10062.27**
325	325	-325	31.15	10062.64	10093.42	58.25	398.17	65407	-81.04	**-10093.42**	**-10093.42**
326	326	-326	30.98	10093.62	10124.40	58.42	399.40	65609	-81.29	**-10124.40**	**-10124.40**
327	327	-327	31.70	10125.32	10156.10	58.61	400.65	65815	-81.55	**-10156.10**	**-10156.10**
328	328	-328	30.55	10155.87	10186.65	58.79	401.86	66013	-81.79	**-10186.65**	**-10186.65**
329	329	-329	31.62	10187.49	10218.27	58.97	403.11	66219	-82.04	**-10218.27**	**-10218.27**
330	330	-330	31.53	10219.02	10249.80	59.15	404.36	66424	-82.30	**-10249.80**	**-10249.80**
Length of 10				**313.80**							
331	331	-331	31.52	10250.54	10281.32	59.33	405.61	66629	-82.55	**-10281.32**	**-10281.32**
332	332	-332	31.57	10282.11	10312.89	59.52	406.86	66834	-82.80	**-10312.89**	**-10312.89**
333	333	-333	31.65	10313.76	10344.54	59.70	408.11	67039	-83.06	**-10344.54**	**-10344.54**
334	334	-334	31.15	10344.91	10375.69	59.88	409.34	67242	-83.31	**-10375.69**	**-10375.69**
335	335	-335	33.38	10378.29	10409.07	60.07	410.66	67459	-83.58	**-10409.07**	**-10409.07**
336	336	-336	30.92	10409.21	10439.99	60.25	411.89	67660	-83.83	**-10439.99**	**-10439.99**
337	337	-337	32.75	10441.96	10472.74	60.44	413.18	67873	-84.09	**-10472.74**	**-10472.74**
338	338	-338	30.12	10472.08	10502.86	60.62	414.37	68069	-84.33	**-10502.86**	**-10502.86**
339	339	-339	31.60	10503.68	10534.46	60.80	415.62	68274	-84.58	**-10534.46**	**-10534.46**
340	340	-340	30.92	10534.60	10565.38	60.98	416.85	68475	-84.83	**-10565.38**	**-10565.38**
Length of 10				**315.58**							
341	341	-341	28.14	10562.74	10593.52	61.14	417.96	68658	-85.06	**-10593.52**	**-10593.52**
342	342	-342	31.06	10593.80	10624.58	61.32	419.19	68860	-85.31	**-10624.58**	**-10624.58**
343	343	-343	31.53	10625.33	10656.11	61.50	420.44	69065	-85.56	**-10656.11**	**-10656.11**
344	344	-344	33.40	10658.73	10689.51	61.70	421.76	69282	-85.83	**-10689.51**	**-10689.51**
345	345	-345	30.75	10689.48	10720.26	61.87	422.98	69482	-86.08	**-10720.26**	**-10720.26**
346	346	-346	30.20	10719.68	10750.46	62.05	424.17	69678	-86.32	**-10750.46**	**-10750.46**
347	347	-347	31.56	10751.24	10782.02	62.23	425.42	69883	-86.57	**-10782.02**	**-10782.02**
348	348	-348	31.60	10782.84	10813.62	62.41	426.67	70088	-86.83	**-10813.62**	**-10813.62**
349	349	-349	31.50	10814.34	10845.12	62.60	427.92	70293	-87.08	**-10845.12**	**-10845.12**
350	350	-350	31.55	10845.89	10876.67	62.78	429.17	70498	-87.33	**-10876.67**	**-10876.67**
Length of 10				**311.29**							
351	351	-351	33.44	10879.33	10910.11	62.97	430.49	70716	-87.60	**-10910.11**	**-10910.11**
352	352	-352	31.32	10910.65	10941.43	63.15	431.73	70919	-87.85	**-10941.43**	**-10941.43**
353	353	-353	31.20	10941.85	10972.63	63.33	432.96	71122	-88.10	**-10972.63**	**-10972.63**
354	354	-354	31.22	10973.07	11003.85	63.52	434.20	71325	-88.35	**-11003.85**	**-11003.85**
355	355	-355	31.57	11004.64	11035.42	63.70	435.45	71530	-88.61	**-11035.42**	**-11035.42**
356	356	-356	31.58	11036.22	11067.00	63.88	436.70	71735	-88.86	**-11067.00**	**-11067.00**
357	357	-357	32.25	11068.47	11099.25	64.07	437.97	71945	-89.12	**-11099.25**	**-11099.25**
358	358	-358	31.65	11100.12	11130.90	64.25	439.22	72151	-89.37	**-11130.90**	**-11130.90**
359	359	-359	31.57	11131.69	11162.47	64.43	440.47	72356	-89.63	**-11162.47**	**-11162.47**
360	360	-360	31.55	11163.24	11194.02	64.62	441.72	72561	-89.88	**-11194.02**	**-11194.02**

#	JTS IN	JTS OUT	JT LENGTH	TOTAL TUBING	TBG + BHA + KB	TBG VOLUME	CSG ANN VOLUME	STRING WEIGHT	LINER ANN VOLUME	1ST FISH TOP	2ND FISH TOP
Length of 10				**317.35**							
361	361	-361	31.60	11194.84	11225.62	64.80	442.97	72766	-90.13	**-11225.62**	**-11225.62**
362	362	-362	31.51	11226.35	11257.13	64.98	444.22	72971	-90.39	**-11257.13**	**-11257.13**
363	363	-363	31.58	11257.93	11288.71	65.16	445.47	73177	-90.64	**-11288.71**	**-11288.71**
364	364	-364	31.50	11289.43	11320.21	65.35	446.72	73381	-90.89	**-11320.21**	**-11320.21**
365	365	-365	31.16	11320.59	11351.37	65.53	447.95	73584	-91.14	**-11351.37**	**-11351.37**
366	366	-366	31.83	11352.42	11383.20	65.71	449.21	73791	-91.40	**-11383.20**	**-11383.20**
367	367	-367	31.33	11383.75	11414.53	65.89	450.45	73994	-91.65	**-11414.53**	**-11414.53**
368	368	-368	31.55	11415.30	11446.08	66.08	451.70	74199	-91.90	**-11446.08**	**-11446.08**
369	369	-369	31.50	11446.80	11477.58	66.26	452.94	74404	-92.16	**-11477.58**	**-11477.58**
370	370	-370	31.35	11478.15	11508.93	66.44	454.18	74608	-92.41	**-11508.93**	**-11508.93**
Length of 10				**314.91**							
371	371	-371	31.56	11509.71	11540.49	66.62	455.43	74813	-92.66	**-11540.49**	**-11540.49**
372	372	-372	31.60	11541.31	11572.09	66.80	456.68	75019	-92.91	**-11572.09**	**-11572.09**
373	373	-373	30.23	11571.54	11602.32	66.98	457.88	75215	-93.16	**-11602.32**	**-11602.32**
374	374	-374	31.36	11602.90	11633.68	67.16	459.12	75419	-93.41	**-11633.68**	**-11633.68**
375	375	-375	31.45	11634.35	11665.13	67.34	460.36	75623	-93.66	**-11665.13**	**-11665.13**
376	376	-376	31.53	11665.88	11696.66	67.53	461.61	75828	-93.92	**-11696.66**	**-11696.66**
377	377	-377	31.50	11697.38	11728.16	67.71	462.86	76033	-94.17	**-11728.16**	**-11728.16**
378	378	-378	31.53	11728.91	11759.69	67.89	464.11	76238	-94.42	**-11759.69**	**-11759.69**
379	379	-379	31.00	11759.91	11790.69	68.07	465.33	76439	-94.67	**-11790.69**	**-11790.69**
380	380	-380	31.53	11791.44	11822.22	68.25	466.58	76644	-94.92	**-11822.22**	**-11822.22**
Length of 10				**313.29**							
381	381	-381	31.53	11822.97	11853.75	68.43	467.83	76849	-95.18	**-11853.75**	**-11853.75**
382	382	-382	31.53	11854.50	11885.28	68.62	469.08	77054	-95.43	**-11885.28**	**-11885.28**
383	383	-383	31.00	11885.50	11916.28	68.80	470.30	77256	-95.68	**-11916.28**	**-11916.28**
384	384	-384	31.00	11916.50	11947.28	68.98	471.53	77457	-95.93	**-11947.28**	**-11947.28**
385	385	-385	30.98	11947.48	11978.26	69.16	472.75	77659	-96.18	**-11978.26**	**-11978.26**
386	386	-386	31.50	11978.98	12009.76	69.34	474.00	77863	-96.43	**-12009.76**	**-12009.76**
387	387	-387	31.55	12010.53	12041.31	69.52	475.25	78068	-96.68	**-12041.31**	**-12041.31**
388	388	-388	31.53	12042.06	12072.84	69.70	476.50	78273	-96.94	**-12072.84**	**-12072.84**
389	389	-389	31.55	12073.61	12104.39	69.89	477.75	78478	-97.19	**-12104.39**	**-12104.39**
390	390	-390	30.97	12104.58	12135.36	70.06	478.97	78680	-97.44	**-12135.36**	**-12135.36**
Length of 10				**313.14**							
391	391	-391	31.35	12135.93	12166.71	70.25	480.21	78884	-97.69	**-12166.71**	**-12166.71**
392	392	-392	30.95	12166.88	12197.66	70.43	481.44	79085	-97.94	**-12197.66**	**-12197.66**
393	393	-393	31.53	12198.41	12229.19	70.61	482.68	79290	-98.19	**-12229.19**	**-12229.19**
394	394	-394	30.98	12229.39	12260.17	70.79	483.91	79491	-98.44	**-12260.17**	**-12260.17**
395	395	-395	31.52	12260.91	12291.69	70.97	485.16	79696	-98.69	**-12291.69**	**-12291.69**
396	396	-396	31.43	12292.34	12323.12	71.15	486.40	79900	-98.95	**-12323.12**	**-12323.12**
397	397	-397	31.52	12323.86	12354.64	71.33	487.65	80105	-99.20	**-12354.64**	**-12354.64**
398	398	-398	31.30	12355.16	12385.94	71.52	488.89	80309	-99.45	**-12385.94**	**-12385.94**
399	399	-399	31.35	12386.51	12417.29	71.70	490.13	80512	-99.70	**-12417.29**	**-12417.29**
400	400	-400	31.50	12418.01	12448.79	71.88	491.37	80717	-99.95	**-12448.79**	**-12448.79**
Length of 10				**313.43**							
401	401	-401	31.56	12449.57	12480.35	72.06	492.62	80922	-100.21	**-12480.35**	**-12480.35**
402	402	-402	31.53	12481.10	12511.88	72.24	493.87	81127	-100.46	**-12511.88**	**-12511.88**
403	403	-403	30.98	12512.08	12542.86	72.42	495.10	81329	-100.71	**-12542.86**	**-12542.86**
404	404	-404	31.57	12543.65	12574.43	72.61	496.34	81534	-100.96	**-12574.43**	**-12574.43**
405	405	-405	30.65	12574.30	12605.08	72.78	497.56	81733	-101.21	**-12605.08**	**-12605.08**
406	406	-406	31.56	12605.86	12636.64	72.97	498.81	81938	-101.46	**-12636.64**	**-12636.64**
407	407	-407	31.55	12637.41	12668.19	73.15	500.05	82143	-101.72	**-12668.19**	**-12668.19**
408	408	-408	31.53	12668.94	12699.72	73.33	501.30	82348	-101.97	**-12699.72**	**-12699.72**
409	409	-409	31.50	12700.44	12731.22	73.51	502.55	82553	-102.22	**-12731.22**	**-12731.22**
410	410	-410	31.50	12731.94	12762.72	73.70	503.79	82758	-102.47	**-12762.72**	**-12762.72**
Length of 10				**313.93**							
411	411	-411	31.00	12762.94	12793.72	73.88	505.02	82959	-102.72	**-12793.72**	**-12793.72**
412	412	-412	31.46	12794.40	12825.18	74.06	506.27	83164	-102.98	**-12825.18**	**-12825.18**
413	413	-413	31.50	12825.90	12856.68	74.24	507.51	83368	-103.23	**-12856.68**	**-12856.68**

#	JTS IN	JTS OUT	JT LENGTH	TOTAL TUBING	TBG + BHA + KB	TBG VOLUME	CSG ANN VOLUME	STRING WEIGHT	LINER ANN VOLUME	TOP	2ND FISH TOP
414	414	-414	31.33	12857.23	12888.01	74.42	508.75	83572	-103.48	**-12888.01**	**-12888.01**
415	415	-415	31.49	12888.72	12919.50	74.60	510.00	83777	-103.73	**-12919.50**	**-12919.50**
416	416	-416	31.52	12920.24	12951.02	74.79	511.25	83982	-103.99	**-12951.02**	**-12951.02**
417	417	-417	31.00	12951.24	12982.02	74.97	512.47	84183	-104.24	**-12982.02**	**-12982.02**
418	418	-418	31.47	12982.71	13013.49	75.15	513.72	84388	-104.49	**-13013.49**	**-13013.49**
419	419	-419	31.50	13014.21	13044.99	75.33	514.96	84592	-104.74	**-13044.99**	**-13044.99**
420	420	-420	31.55	13045.76	13076.54	75.51	516.21	84797	-104.99	**-13076.54**	**-13076.54**
Length of 10				**313.82**							
421	421	-421	33.37	13079.13	13109.91	75.71	517.53	85014	-105.26	**-13109.91**	**-13109.91**
422	422	-422	29.67	13108.80	13139.58	75.88	518.71	85207	-105.50	**-13139.58**	**-13139.58**
423	423	-423	31.57	13140.37	13171.15	76.06	519.96	85412	-105.75	**-13171.15**	**-13171.15**
424	424	-424	31.52	13171.89	13202.67	76.24	521.20	85617	-106.01	**-13202.67**	**-13202.67**
425	425	-425	30.95	13202.84	13233.62	76.42	522.43	85818	-106.26	**-13233.62**	**-13233.62**
426	426	-426	31.47	13234.31	13265.09	76.60	523.67	86023	-106.51	**-13265.09**	**-13265.09**
427	427	-427	31.50	13265.81	13296.59	76.79	524.92	86228	-106.76	**-13296.59**	**-13296.59**
428	428	-428	31.35	13297.16	13327.94	76.97	526.16	86432	-107.01	**-13327.94**	**-13327.94**
429	429	-429	31.47	13328.63	13359.41	77.15	527.41	86636	-107.27	**-13359.41**	**-13359.41**
430	430	-430	31.57	13360.20	13390.98	77.33	528.65	86841	-107.52	**-13390.98**	**-13390.98**
Length of 10				**314.44**							
431	431	-431	31.50	13391.70	13422.48	77.52	529.90	87046	-107.77	**-13422.48**	**-13422.48**
432	432	-432	31.66	13423.36	13454.14	77.70	531.15	87252	-108.03	**-13454.14**	**-13454.14**
433	433	-433	31.20	13454.56	13485.34	77.88	532.39	87455	-108.28	**-13485.34**	**-13485.34**
434	434	-434	29.97	13484.53	13515.31	78.05	533.57	87649	-108.52	**-13515.31**	**-13515.31**
435	435	-435	31.45	13515.98	13546.76	78.23	534.82	87854	-108.77	**-13546.76**	**-13546.76**
436	436	-436	31.47	13547.45	13578.23	78.42	536.06	88058	-109.02	**-13578.23**	**-13578.23**
437	437	-437	29.95	13577.40	13608.18	78.59	537.25	88253	-109.26	**-13608.18**	**-13608.18**
438	438	-438	31.02	13608.42	13639.20	78.77	538.48	88455	-109.51	**-13639.20**	**-13639.20**
439	439	-439	31.05	13639.47	13670.25	78.95	539.71	88657	-109.76	**-13670.25**	**-13670.25**
440	440	-440	31.30	13670.77	13701.55	79.13	540.94	88860	-110.01	**-13701.55**	**-13701.55**
Length of 10				**310.57**							
441	441	-441	30.98	13701.75	13732.53	79.31	542.17	89061	-110.26	**-13732.53**	**-13732.53**
442	442	-442	31.55	13733.30	13764.08	79.49	543.42	89266	-110.51	**-13764.08**	**-13764.08**
443	443	-443	31.56	13764.86	13795.64	79.68	544.67	89472	-110.77	**-13795.64**	**-13795.64**
444	444	-444	31.52	13796.38	13827.16	79.86	545.91	89676	-111.02	**-13827.16**	**-13827.16**
445	445	-445	31.00	13827.38	13858.16	80.04	547.14	89878	-111.27	**-13858.16**	**-13858.16**
446	446	-446	31.55	13858.93	13889.71	80.22	548.39	90083	-111.52	**-13889.71**	**-13889.71**
447	447	-447	31.38	13890.31	13921.09	80.40	549.63	90287	-111.78	**-13921.09**	**-13921.09**
448	448	-448	31.55	13921.86	13952.64	80.58	550.88	90492	-112.03	**-13952.64**	**-13952.64**
449	449	-449	31.53	13953.39	13984.17	80.77	552.13	90697	-112.28	**-13984.17**	**-13984.17**
450	450	-450	31.50	13984.89	14015.67	80.95	553.37	90902	-112.54	**-14015.67**	**-14015.67**
Length of 10				**314.12**							
451	451	-451	31.52	14016.41	14047.19	81.13	554.62	91107	-112.79	**-14047.19**	**-14047.19**
452	452	-452	31.00	14047.41	14078.19	81.31	555.85	91308	-113.04	**-14078.19**	**-14078.19**
453	453	-453	31.55	14078.96	14109.74	81.49	557.10	91513	-113.29	**-14109.74**	**-14109.74**
454	454	-454	31.52	14110.48	14141.26	81.68	558.34	91718	-113.54	**-14141.26**	**-14141.26**
455	455	-455	31.57	14142.05	14172.83	81.86	559.59	91923	-113.80	**-14172.83**	**-14172.83**
456	456	-456	31.55	14173.60	14204.38	82.04	560.84	92128	-114.05	**-14204.38**	**-14204.38**
457	457	-457	31.50	14205.10	14235.88	82.22	562.09	92333	-114.30	**-14235.88**	**-14235.88**
458	458	-458	30.95	14236.05	14266.83	82.40	563.31	92534	-114.55	**-14266.83**	**-14266.83**
459	459	-459	31.53	14267.58	14298.36	82.59	564.56	92739	-114.80	**-14298.36**	**-14298.36**
460	460	-460	30.98	14298.56	14329.34	82.76	565.79	92941	-115.05	**-14329.34**	**-14329.34**
Length of 10				**313.67**							
461	461	-461	31.55	14330.11	14360.89	82.95	567.03	93146	-115.31	**-14360.89**	**-14360.89**
462	462	-462	30.73	14360.84	14391.62	83.12	568.25	93345	-115.55	**-14391.62**	**-14391.62**
463	463	-463	31.50	14392.34	X 14423.12	83.31	569.50	93550	-115.81	**-14423.12**	**-14423.12**
464	464	-464	31.40	14423.74	14454.52	83.49	570.74	93754	-116.06	**-14454.52**	**-14454.52**
465	465	-465	31.55	14455.29	14486.07	83.67	571.99	93959	-116.31	**-14486.07**	**-14486.07**
466	466	-466	31.60	14486.89	14517.67	83.85	573.24	94165	-116.57	**-14517.67**	**-14517.67**
467	467	-467	31.52	14518.41	14549.19	84.04	574.48	94370	-116.82	**-14549.19**	**-14549.19**

#	JTS IN	JTS OUT	JT LENGTH	TOTAL TUBING	TBG + BHA + KB	TBG VOLUME	CSG ANN VOLUME	STRING WEIGHT	LINER ANN VOLUME	TO FISH TOP	2ND FISH TOP
468	468	-468	31.00	14549.41	14580.19	84.22	575.71	94571	-117.07	**-14580.19**	**-14580.19**
469	469	-469	31.52	14580.93	14611.71	84.40	576.96	94776	-117.32	**-14611.71**	**-14611.71**
470	470	-470	31.50	14612.43	14643.21	84.58	578.20	94981	-117.57	**-14643.21**	**-14643.21**
Length of 10				**313.87**							
471	471	-471	31.00	14643.43	14674.21	84.76	579.43	95182	-117.82	**-14674.21**	**-14674.21**
472	472	-472	32.72	14676.15	14706.93	84.95	580.73	95395	-118.09	**-14706.93**	**-14706.93**
473	473	-473	32.60	14708.75	14739.53	85.14	582.02	95607	-118.35	**-14739.53**	**-14739.53**
474	474	-474	32.55	14741.30	14772.08	85.33	583.30	95818	-118.61	**-14772.08**	**-14772.08**
475	475	-475	31.38	14772.68	14803.46	~~pl~~ cmt 85.51	584.55	96022	-118.86	**-14803.46**	**-14803.46**
476	476	-476	31.50	14804.18	14834.96	85.69	585.79	96227	-119.11	**-14834.96**	**-14834.96**
						14805'				**#VALUE!**	**#VALUE!**
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Length of 10				**191.75**							
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Length of 10				**0.00**							
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Length of 10				**0.00**							

2nd Tally
* Cont'd tbg replaced.

EDIT FORMULA

CUSTOMER	Merit Energy
WELL	ARE W 2-10
DATE	2/25/2016
COUNTY	Summit
STATE	Utah
CO. REP.	Mel Wren

	BHA	
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
	TOTAL	0.00

RECEIVED
FEB 23 2016
DIV. OF OIL, GAS & MINING

RBS TOOLS INC		OD	ID	WT/FT	DRIFT
P.O. BOX 1253	TBG	2.875	2.441	6.5	2.347
ROOSEVELT UTAH	CSG	7	7	6.184	29
84066	LINER				
435-823-8928	LINER TOP		FLUID PPG		BOY FACTO
	KB	21	TBG BPF	0.00579	
TRAVIS ROHRER	JTS ON LOC		CSG BPF	0.04760	
	# TALLIED	476	CSG ANN	0.03957	
FISH TOP	JT AVE	31.17	LINER BPF	0.00000	
2ND FISH TOP			LINER ANN	-0.00803	

#	JTS IN	JTS OUT	JT LENGTH	TOTAL TUBING	TBG + BHA + KB	TBG VOLUME	CSG ANN VOLUME	STRING WEIGHT	LINER ANN VOLUME	TO FISH TOP	2ND FISH TOP
1	1	-1	32.62	32.62	53.62	0.19	1.29	212	-0.43	-53.62	-53.62
2	2	-2	32.70	65.32	86.32	0.38	2.58	425	-0.69	-86.32	-86.32
3	3	-3	32.58	97.90	118.90	0.57	3.87	636	-0.95	-118.90	-118.90
4	4	-4	31.57	129.47	150.47	0.75	5.12	842	-1.21	-150.47	-150.47
5	5	-5	32.62	162.09	183.09	0.94	6.41	1054	-1.47	-183.09	-183.09
6	6	-6	32.60	194.69	215.69	1.13	7.70	1265	-1.73	-215.69	-215.69
7	7	-7	32.58	227.27	248.27	1.32	8.99	1477	-1.99	-248.27	-248.27
8	8	-8	32.55	259.82	280.82	1.50	10.28	1689	-2.25	-280.82	-280.82
9	9	-9	32.66	292.48	313.48	1.69	11.57	1901	-2.52	-313.48	-313.48
10	10	-10	32.66	325.14	346.14	1.88	12.87	2113	-2.78	-346.14	-346.14
Length of 10				325.14							
11	11	-11	32.63	357.77	378.77	2.07	14.16	2326	-3.04	-378.77	-378.77
12	12	-12	32.60	390.37	411.37	2.26	15.45	2537	-3.30	-411.37	-411.37
13	13	-13	30.50	420.87	441.87	2.44	16.65	2736	-3.55	-441.87	-441.87
14	14	-14	32.64	453.51	474.51	2.63	17.95	2948	-3.81	-474.51	-474.51
15	15	-15	32.74	486.25	507.25	2.81	19.24	3161	-4.07	-507.25	-507.25
16	16	-16	32.55	518.80	539.80	3.00	20.53	3372	-4.33	-539.80	-539.80
17	17	-17	31.17	549.97	570.97	3.18	21.76	3575	-4.58	-570.97	-570.97
18	18	-18	30.46	580.43	601.43	3.36	22.97	3773	-4.83	-601.43	-601.43
19	19	-19	31.20	611.63	632.63	3.54	24.20	3976	-5.08	-632.63	-632.63
20	20	-20	29.91	641.54	662.54	3.71	25.39	4170	-5.32	-662.54	-662.54
Length of 10				316.40							
21	21	-21	30.45	671.99	692.99	3.89	26.59	4368	-5.56	-692.99	-692.99
22	22	-22	28.42	700.41	721.41	4.05	27.71	4553	-5.79	-721.41	-721.41
23	23	-23	29.48	729.89	750.89	4.22	28.88	4744	-6.03	-750.89	-750.89
24	24	-24	30.78	760.67	781.67	4.40	30.10	4944	-6.28	-781.67	-781.67
25	25	-25	31.44	792.11	813.11	4.58	31.34	5149	-6.53	-813.11	-813.11
26	26	-26	28.84	820.95	841.95	4.75	32.48	5336	-6.76	-841.95	-841.95
27	27	-27	30.12	851.07	872.07	4.93	33.68	5532	-7.00	-872.07	-872.07
28	28	-28	30.50	881.57	902.57	5.10	34.88	5730	-7.25	-902.57	-902.57
29	29	-29	31.25	912.82	933.82	5.28	36.12	5933	-7.50	-933.82	-933.82
30	30	-30	31.43	944.25	965.25	5.47	37.36	6138	-7.75	-965.25	-965.25
Length of 10				302.71							
31	31	-31	31.72	975.97	996.97	5.65	38.62	6344	-8.00	-996.97	-996.97
32	32	-32	29.76	1005.73	1026.73	5.82	39.80	6537	-8.24	-1026.73	-1026.73
33	33	-33	29.95	1035.68	1056.68	5.99	40.98	6732	-8.48	-1056.68	-1056.68
34	34	-34	28.10	1063.78	1084.78	6.16	42.09	6915	-8.71	-1084.78	-1084.78
35	35	-35	30.36	1094.14	1115.14	6.33	43.29	7112	-8.95	-1115.14	-1115.14
36	36	-36	28.70	1122.84	1143.84	6.50	44.43	7298	-9.18	-1143.84	-1143.84
37	37	-37	30.33	1153.17	1174.17	6.67	45.63	7496	-9.43	-1174.17	-1174.17
38	38	-38	31.40	1184.57	1205.57	6.86	46.87	7700	-9.68	-1205.57	-1205.57

#	JTS IN	JTS OUT	JT LENGTH	TOTAL TUBING	TBG + BHA + KB	TBG VOLUME	CSG ANN VOLUME	STRING WEIGHT	LINER ANN VOLUME	1ST FISH TOP	2ND FISH TOP
39	39	-39	31.58	1216.15	1237.15	7.04	48.12	7905	-9.93	**-1237.15**	**-1237.15**
40	40	-40	28.80	1244.95	1265.95	7.21	49.26	8092	-10.16	**-1265.95**	**-1265.95**
Length of 10				**300.70**							
41	41	-41	27.90	1272.85	1293.85	7.37	50.37	8274	-10.39	**-1293.85**	**-1293.85**
42	42	-42	30.53	1303.38	1324.38	7.54	51.57	8472	-10.63	**-1324.38**	**-1324.38**
43	43	-43	31.54	1334.92	1355.92	7.73	52.82	8677	-10.89	**-1355.92**	**-1355.92**
44	44	-44	30.60	1365.52	1386.52	7.90	54.03	8876	-11.13	**-1386.52**	**-1386.52**
45	45	-45	28.75	1394.27	1415.27	8.07	55.17	9063	-11.36	**-1415.27**	**-1415.27**
46	46	-46	29.25	1423.52	1444.52	8.24	56.33	9253	-11.60	**-1444.52**	**-1444.52**
47	47	-47	31.40	1454.92	1475.92	8.42	57.57	9457	-11.85	**-1475.92**	**-1475.92**
48	48	-48	29.12	1484.04	1505.04	8.59	58.72	9646	-12.08	**-1505.04**	**-1505.04**
49	49	-49	29.15	1513.19	1534.19	8.76	59.88	9836	-12.32	**-1534.19**	**-1534.19**
50	50	-50	31.46	1544.65	1565.65	8.94	61.12	10040	-12.57	**-1565.65**	**-1565.65**
Length of 10				**299.70**							
51	51	-51	29.35	1574.00	1595.00	9.11	62.28	10231	-12.81	**-1595.00**	**-1595.00**
52	52	-52	31.48	1605.48	1626.48	9.29	63.53	10436	-13.06	**-1626.48**	**-1626.48**
53	53	-53	31.42	1636.90	1657.90	9.47	64.77	10640	-13.31	**-1657.90**	**-1657.90**
54	54	-54	31.36	1668.26	1689.26	9.66	66.01	10844	-13.56	**-1689.26**	**-1689.26**
55	55	-55	29.12	1697.38	1718.38	9.82	67.16	11033	-13.80	**-1718.38**	**-1718.38**
56	56	-56	31.54	1728.92	1749.92	10.01	68.41	11238	-14.05	**-1749.92**	**-1749.92**
57	57	-57	29.42	1758.34	1779.34	10.18	69.58	11429	-14.29	**-1779.34**	**-1779.34**
58	58	-58	29.40	1787.74	1808.74	10.35	70.74	11620	-14.52	**-1808.74**	**-1808.74**
59	59	-59	30.90	1818.64	1839.64	10.53	71.96	11821	-14.77	**-1839.64**	**-1839.64**
60	60	-60	29.74	1848.38	1869.38	10.70	73.14	12014	-15.01	**-1869.38**	**-1869.38**
Length of 10				**303.73**							
61	61	-61	31.46	1879.84	1900.84	10.88	74.38	12219	-15.26	**-1900.84**	**-1900.84**
62	62	-62	30.75	1910.59	1931.59	11.06	75.60	12419	-15.51	**-1931.59**	**-1931.59**
63	63	-63	31.43	1942.02	1963.02	11.24	76.84	12623	-15.76	**-1963.02**	**-1963.02**
64	64	-64	31.47	1973.49	1994.49	11.42	78.09	12828	-16.01	**-1994.49**	**-1994.49**
65	65	-65	30.98	2004.47	2025.47	11.60	79.32	13029	-16.26	**-2025.47**	**-2025.47**
66	66	-66	31.60	2036.07	2057.07	11.79	80.57	13234	-16.52	**-2057.07**	**-2057.07**
67	67	-67	28.62	2064.69	2085.69	11.95	81.70	13420	-16.75	**-2085.69**	**-2085.69**
68	68	-68	30.50	2095.19	2116.19	12.13	82.91	13619	-16.99	**-2116.19**	**-2116.19**
69	69	-69	31.00	2126.19	2147.19	12.31	84.13	13820	-17.24	**-2147.19**	**-2147.19**
70	70	-70	29.55	2155.74	2176.74	12.48	85.30	14012	-17.48	**-2176.74**	**-2176.74**
Length of 10				**307.36**							
71	71	-71	31.15	2186.89	2207.89	12.66	86.53	14215	-17.73	**-2207.89**	**-2207.89**
72	72	-72	29.78	2216.67	2237.67	12.83	87.71	14408	-17.97	**-2237.67**	**-2237.67**
73	73	-73	31.65	2248.32	2269.32	13.01	88.96	14614	-18.22	**-2269.32**	**-2269.32**
74	74	-74	30.66	2278.98	2299.98	13.19	90.18	14813	-18.47	**-2299.98**	**-2299.98**
75	75	-75	30.70	2309.68	2330.68	13.37	91.39	15013	-18.71	**-2330.68**	**-2330.68**
76	76	-76	29.41	2339.09	2360.09	13.54	92.56	15204	-18.95	**-2360.09**	**-2360.09**
77	77	-77	28.90	2367.99	2388.99	13.71	93.70	15392	-19.18	**-2388.99**	**-2388.99**
78	78	-78	31.50	2399.49	2420.49	13.89	94.95	15597	-19.43	**-2420.49**	**-2420.49**
79	79	-79	31.64	2431.13	2452.13	14.07	96.20	15802	-19.69	**-2452.13**	**-2452.13**
80	80	-80	29.45	2460.58	2481.58	14.24	97.36	15994	-19.93	**-2481.58**	**-2481.58**
Length of 10				**304.84**							
81	81	-81	29.52	2490.10	2511.10	14.41	98.53	16186	-20.16	**-2511.10**	**-2511.10**
82	82	-82	31.48	2521.58	2542.58	14.60	99.78	16390	-20.41	**-2542.58**	**-2542.58**
83	83	-83	28.80	2550.38	2571.38	14.76	100.92	16577	-20.65	**-2571.38**	**-2571.38**
84	84	-84	31.54	2581.92	2602.92	14.94	102.16	16782	-20.90	**-2602.92**	**-2602.92**
85	85	-85	28.80	2610.72	2631.72	15.11	103.30	16970	-21.13	**-2631.72**	**-2631.72**
86	86	-86	28.68	2639.40	2660.40	15.28	104.44	17156	-21.36	**-2660.40**	**-2660.40**
87	87	-87	31.50	2670.90	2691.90	15.46	105.69	17361	-21.61	**-2691.90**	**-2691.90**
88	88	-88	29.73	2700.63	2721.63	15.63	106.86	17554	-21.85	**-2721.63**	**-2721.63**
89	89	-89	30.18	2730.81	2751.81	15.81	108.06	17750	-22.09	**-2751.81**	**-2751.81**
90	90	-90	30.30	2761.11	2782.11	15.98	109.26	17947	-22.34	**-2782.11**	**-2782.11**
Length of 10				**300.53**							
91	91	-91	29.30	2790.41	2811.41	16.15	110.41	18138	-22.57	**-2811.41**	**-2811.41**

#	JTS IN	JTS OUT	JT LENGTH	TOTAL TUBING	TBG + BHA + KB	TBG VOLUME	CSG ANN VOLUME	STRING WEIGHT	LINER ANN VOLUME	TO FISH TOP	2ND FISH TOP
92	92	-92	30.23	2820.64	2841.64	16.33	111.61	18334	-22.82	**-2841.64**	**-2841.64**
93	93	-93	29.30	2849.94	2870.94	16.50	112.77	18525	-23.05	**-2870.94**	**-2870.94**
94	94	-94	30.28	2880.22	2901.22	16.67	113.97	18721	-23.29	**-2901.22**	**-2901.22**
95	95	-95	30.30	2910.52	2931.52	16.85	115.17	18918	-23.54	**-2931.52**	**-2931.52**
96	96	-96	31.30	2941.82	2962.82	17.03	116.41	19122	-23.79	**-2962.82**	**-2962.82**
97	97	-97	30.67	2972.49	2993.49	17.21	117.62	19321	-24.04	**-2993.49**	**-2993.49**
98	98	-98	31.55	3004.04	3025.04	17.39	118.87	19526	-24.29	**-3025.04**	**-3025.04**
99	99	-99	31.83	3035.87	3056.87	17.57	120.13	19733	-24.54	**-3056.87**	**-3056.87**
100	100	-100	29.73	3065.60	3086.60	17.74	121.30	19926	-24.78	**-3086.60**	**-3086.60**
Length of 10				**304.49**							
101	101	-101	29.18	3094.78	3115.78	17.91	122.46	20116	-25.02	**-3115.78**	**-3115.78**
102	102	-102	28.02	3122.80	3143.80	18.08	123.57	20298	-25.24	**-3143.80**	**-3143.80**
103	103	-103	31.45	3154.25	3175.25	18.26	124.81	20503	-25.49	**-3175.25**	**-3175.25**
104	104	-104	30.40	3184.65	3205.65	18.43	126.01	20700	-25.74	**-3205.65**	**-3205.65**
105	105	-105	29.50	3214.15	3235.15	18.60	127.18	20892	-25.98	**-3235.15**	**-3235.15**
106	106	-106	31.53	3245.68	3266.68	18.79	128.43	21097	-26.23	**-3266.68**	**-3266.68**
107	107	-107	31.50	3277.18	3298.18	18.97	129.68	21302	-26.48	**-3298.18**	**-3298.18**
108	108	-108	29.81	3306.99	3327.99	19.14	130.86	21495	-26.72	**-3327.99**	**-3327.99**
109	109	-109	31.45	3338.44	3359.44	19.32	132.10	21700	-26.97	**-3359.44**	**-3359.44**
110	110	-110	31.73	3370.17	3391.17	19.51	133.36	21906	-27.23	**-3391.17**	**-3391.17**
Length of 10				**304.57**							
111	111	-111	30.62	3400.79	3421.79	19.68	134.57	22105	-27.47	**-3421.79**	**-3421.79**
112	112	-112	30.96	3431.75	3452.75	19.86	135.79	22306	-27.72	**-3452.75**	**-3452.75**
113	113	-113	29.40	3461.15	3482.15	20.03	136.96	22497	-27.96	**-3482.15**	**-3482.15**
114	114	-114	30.87	3492.02	3513.02	20.21	138.18	22698	-28.21	**-3513.02**	**-3513.02**
115	115	-115	32.00	3524.02	3545.02	20.40	139.44	22906	-28.46	**-3545.02**	**-3545.02**
116	116	-116	28.40	3552.42	3573.42	20.56	140.57	23091	-28.69	**-3573.42**	**-3573.42**
117	117	-117	31.56	3583.98	3604.98	20.75	141.82	23296	-28.95	**-3604.98**	**-3604.98**
118	118	-118	30.90	3614.88	3635.88	20.92	143.04	23497	-29.19	**-3635.88**	**-3635.88**
119	119	-119	31.56	3646.44	3667.44	21.11	144.29	23702	-29.45	**-3667.44**	**-3667.44**
120	120	-120	31.47	3677.91	3698.91	21.29	145.53	23906	-29.70	**-3698.91**	**-3698.91**
Length of 10				**307.74**							
121	121	-121	28.25	3706.16	3727.16	21.45	146.65	24090	-29.93	**-3727.16**	**-3727.16**
122	122	-122	31.56	3737.72	3758.72	21.64	147.90	24295	-30.18	**-3758.72**	**-3758.72**
123	123	-123	31.47	3769.19	3790.19	21.82	149.14	24500	-30.43	**-3790.19**	**-3790.19**
124	124	-124	31.56	3800.75	3821.75	22.00	150.39	24705	-30.69	**-3821.75**	**-3821.75**
125	125	-125	30.15	3830.90	3851.90	22.17	151.59	24901	-30.93	**-3851.90**	**-3851.90**
126	126	-126	29.40	3860.30	3881.30	22.34	152.75	25092	-31.16	**-3881.30**	**-3881.30**
127	127	-127	31.45	3891.75	3912.75	22.53	153.99	25296	-31.42	**-3912.75**	**-3912.75**
128	128	-128	31.50	3923.25	3944.25	22.71	155.24	25501	-31.67	**-3944.25**	**-3944.25**
129	129	-129	31.43	3954.68	3975.68	22.89	156.48	25705	-31.92	**-3975.68**	**-3975.68**
130	130	-130	31.47	3986.15	4007.15	23.07	157.73	25910	-32.17	**-4007.15**	**-4007.15**
Length of 10				**308.24**							
131	131	-131	31.65	4017.80	4038.80	23.26	158.98	26116	-32.43	**-4038.80**	**-4038.80**
132	132	-132	31.53	4049.33	4070.33	23.44	160.23	26321	-32.68	**-4070.33**	**-4070.33**
133	133	-133	30.15	4079.48	4100.48	23.61	161.42	26517	-32.92	**-4100.48**	**-4100.48**
134	134	-134	31.50	4110.98	4131.98	23.80	162.67	26721	-33.18	**-4131.98**	**-4131.98**
135	135	-135	31.14	4142.12	4163.12	23.98	163.90	26924	-33.43	**-4163.12**	**-4163.12**
136	136	-136	31.60	4173.72	4194.72	24.16	165.15	27129	-33.68	**-4194.72**	**-4194.72**
137	137	-137	31.05	4204.77	4225.77	24.34	166.38	27331	-33.93	**-4225.77**	**-4225.77**
138	138	-138	30.22	4234.99	4255.99	24.51	167.58	27527	-34.17	**-4255.99**	**-4255.99**
139	139	-139	31.63	4266.62	4287.62	24.70	168.83	27733	-34.43	**-4287.62**	**-4287.62**
140	140	-140	31.50	4298.12	4319.12	24.88	170.07	27938	-34.68	**-4319.12**	**-4319.12**
Length of 10				**311.97**							
141	141	-141	30.70	4328.82	4349.82	25.06	171.29	28137	-34.93	**-4349.82**	**-4349.82**
142	142	-142	30.02	4358.84	4379.84	25.23	172.48	28332	-35.17	**-4379.84**	**-4379.84**
143	143	-143	31.50	4390.34	4411.34	25.41	173.72	28537	-35.42	**-4411.34**	**-4411.34**
144	144	-144	28.25	4418.59	4439.59	25.58	174.84	28721	-35.65	**-4439.59**	**-4439.59**
145	145	-145	29.45	4448.04	4469.04	25.75	176.01	28912	-35.88	**-4469.04**	**-4469.04**

#	JTS IN	JTS OUT	JT LENGTH	TOTAL TUBING	TBG + BHA + KB	TBG VOLUME	CSG ANN VOLUME	STRING WEIGHT	LINER ANN VOLUME	TO FISH TOP	2ND FISH TOP
146	146	-146	31.60	4479.64	4500.64	25.93	177.26	29118	-36.14	**-4500.64**	**-4500.64**
147	147	-147	29.97	4509.61	4530.61	26.10	178.44	29312	-36.38	**-4530.61**	**-4530.61**
148	148	-148	31.58	4541.19	4562.19	26.29	179.69	29518	-36.63	**-4562.19**	**-4562.19**
149	149	-149	31.32	4572.51	4593.51	26.47	180.93	29721	-36.88	**-4593.51**	**-4593.51**
150	150	-150	31.65	4604.16	4625.16	26.65	182.18	29927	-37.14	**-4625.16**	**-4625.16**
Length of 10				**306.04**							
151	151	-151	31.50	4635.66	4656.66	26.83	183.43	30132	-37.39	**-4656.66**	**-4656.66**
152	152	-152	28.62	4664.28	4685.28	27.00	184.56	30318	-37.62	**-4685.28**	**-4685.28**
153	153	-153	31.45	4695.73	4716.73	27.18	185.81	30522	-37.87	**-4716.73**	**-4716.73**
154	154	-154	28.30	4724.03	4745.03	27.34	186.93	30706	-38.10	**-4745.03**	**-4745.03**
155	155	-155	29.75	4753.78	4774.78	27.52	188.10	30900	-38.34	**-4774.78**	**-4774.78**
156	156	-156	31.60	4785.38	4806.38	27.70	189.35	31105	-38.59	**-4806.38**	**-4806.38**
157	157	-157	32.05	4817.43	4838.43	27.88	190.62	31313	-38.85	**-4838.43**	**-4838.43**
158	158	-158	29.70	4847.13	4868.13	28.06	191.80	31506	-39.09	**-4868.13**	**-4868.13**
159	159	-159	31.75	4878.88	4899.88	28.24	193.05	31713	-39.34	**-4899.88**	**-4899.88**
160	160	-160	31.60	4910.48	4931.48	28.42	194.30	31918	-39.60	**-4931.48**	**-4931.48**
Length of 10				**306.32**							
161	161	-161	29.43	4939.91	4960.91	28.59	195.47	32109	-39.83	**-4960.91**	**-4960.91**
162	162	-162	29.85	4969.76	4990.76	28.77	196.65	32303	-40.07	**-4990.76**	**-4990.76**
163	163	-163	31.80	5001.56	5022.56	28.95	197.91	32510	-40.33	**-5022.56**	**-5022.56**
164	164	-164	30.42	5031.98	5052.98	29.13	199.11	32708	-40.57	**-5052.98**	**-5052.98**
165	165	-165	31.47	5063.45	5084.45	29.31	200.36	32912	-40.82	**-5084.45**	**-5084.45**
166	166	-166	31.60	5095.05	5116.05	29.49	201.61	33118	-41.08	**-5116.05**	**-5116.05**
167	167	-167	30.70	5125.75	5146.75	29.67	202.82	33317	-41.32	**-5146.75**	**-5146.75**
168	168	-168	30.45	5156.20	5177.20	29.85	204.03	33515	-41.57	**-5177.20**	**-5177.20**
169	169	-169	30.76	5186.96	5207.96	30.02	205.24	33715	-41.82	**-5207.96**	**-5207.96**
170	170	-170	31.46	5218.42	5239.42	30.21	206.49	33920	-42.07	**-5239.42**	**-5239.42**
Length of 10				**307.94**							
171	171	-171	28.83	5247.25	5268.25	30.37	207.63	34107	-42.30	**-5268.25**	**-5268.25**
172	172	-172	31.52	5278.77	5299.77	30.56	208.88	34312	-42.55	**-5299.77**	**-5299.77**
173	173	-173	28.28	5307.05	5328.05	30.72	210.00	34496	-42.78	**-5328.05**	**-5328.05**
174	174	-174	28.73	5335.78	5356.78	30.89	211.13	34683	-43.01	**-5356.78**	**-5356.78**
175	175	-175	30.58	5366.36	5387.36	31.06	212.34	34881	-43.26	**-5387.36**	**-5387.36**
176	176	-176	31.52	5397.88	5418.88	31.24	213.59	35086	-43.51	**-5418.88**	**-5418.88**
177	177	-177	29.76	5427.64	5448.64	31.42	214.77	35280	-43.75	**-5448.64**	**-5448.64**
178	178	-178	31.55	5459.19	5480.19	31.60	216.02	35485	-44.00	**-5480.19**	**-5480.19**
179	179	-179	30.62	5489.81	5510.81	31.78	217.23	35684	-44.25	**-5510.81**	**-5510.81**
180	180	-180	29.23	5519.04	5540.04	31.95	218.38	35874	-44.48	**-5540.04**	**-5540.04**
Length of 10				**300.62**							
181	181	-181	29.63	5548.67	5569.67	32.12	219.56	36066	-44.72	**-5569.67**	**-5569.67**
182	182	-182	31.88	5580.55	5601.55	32.30	220.82	36274	-44.98	**-5601.55**	**-5601.55**
183	183	-183	31.55	5612.10	5633.10	32.48	222.07	36479	-45.23	**-5633.10**	**-5633.10**
184	184	-184	32.05	5644.15	5665.15	32.67	223.34	36687	-45.49	**-5665.15**	**-5665.15**
185	185	-185	31.60	5675.75	5696.75	32.85	224.59	36892	-45.74	**-5696.75**	**-5696.75**
186	186	-186	30.50	5706.25	5727.25	33.03	225.79	37091	-45.99	**-5727.25**	**-5727.25**
187	187	-187	31.63	5737.88	5758.88	33.21	227.04	37296	-46.24	**-5758.88**	**-5758.88**
188	188	-188	31.92	5769.80	5790.80	33.40	228.31	37504	-46.50	**-5790.80**	**-5790.80**
189	189	-189	29.44	5799.24	5820.24	33.57	229.47	37695	-46.73	**-5820.24**	**-5820.24**
190	190	-190	31.53	5830.77	5851.77	33.75	230.72	37900	-46.99	**-5851.77**	**-5851.77**
Length of 10				**311.73**							
191	191	-191	29.27	5860.04	5881.04	33.92	231.88	38090	-47.22	**-5881.04**	**-5881.04**
192	192	-192	29.92	5889.96	5910.96	34.09	233.06	38285	-47.46	**-5910.96**	**-5910.96**
193	193	-193	31.54	5921.50	5942.50	34.28	234.31	38490	-47.71	**-5942.50**	**-5942.50**
194	194	-194	31.60	5953.10	5974.10	34.46	235.56	38695	-47.97	**-5974.10**	**-5974.10**
195	195	-195	28.90	5982.00	6003.00	34.63	236.70	38883	-48.20	**-6003.00**	**-6003.00**
196	196	-196	32.10	6014.10	6035.10	34.81	237.97	39092	-48.46	**-6035.10**	**-6035.10**
197	197	-197	30.07	6044.17	6065.17	34.99	239.16	39287	-48.70	**-6065.17**	**-6065.17**
198	198	-198	30.36	6074.53	6095.53	35.16	240.37	39484	-48.94	**-6095.53**	**-6095.53**
199	199	-199	30.25	6104.78	6125.78	35.34	241.56	39681	-49.19	**-6125.78**	**-6125.78**

#	JTS IN	JTS OUT	JT LENGTH	TOTAL TUBING	TBG + BHA + KB	TBG VOLUME	CSG ANN VOLUME	STRING WEIGHT	LINER ANN VOLUME	TO FISH TOP	2ND FISH TOP
200	200	-200	29.27	6134.05	6155.05	35.51	242.72	39871	-49.42	**-6155.05**	**-6155.05**
Length of 10				**303.28**							
201	201	-201	28.15	6162.20	6183.20	35.67	243.83	40054	-49.65	**-6183.20**	**-6183.20**
202	202	-202	30.20	6192.40	6213.40	35.84	245.03	40251	-49.89	**-6213.40**	**-6213.40**
203	203	-203	30.25	6222.65	6243.65	36.02	246.23	40447	-50.13	**-6243.65**	**-6243.65**
204	204	-204	29.25	6251.90	6272.90	36.19	247.38	40637	-50.37	**-6272.90**	**-6272.90**
205	205	-205	29.65	6281.55	6302.55	36.36	248.56	40830	-50.60	**-6302.55**	**-6302.55**
206	206	-206	31.54	6313.09	6334.09	36.54	249.81	41035	-50.86	**-6334.09**	**-6334.09**
207	207	-207	31.67	6344.76	6365.76	36.73	251.06	41241	-51.11	**-6365.76**	**-6365.76**
208	208	-208	31.49	6376.25	6397.25	36.91	252.30	41446	-51.36	**-6397.25**	**-6397.25**
209	209	-209	31.52	6407.77	6428.77	37.09	253.55	41651	-51.62	**-6428.77**	**-6428.77**
210	210	-210	31.50	6439.27	6460.27	37.27	254.80	41855	-51.87	**-6460.27**	**-6460.27**
Length of 10				**305.22**							
211	211	-211	31.45	6470.72	6491.72	37.45	256.04	42060	-52.12	**-6491.72**	**-6491.72**
212	212	-212	31.52	6502.24	6523.24	37.64	257.29	42265	-52.38	**-6523.24**	**-6523.24**
213	213	-213	31.60	6533.84	6554.84	37.82	258.54	42470	-52.63	**-6554.84**	**-6554.84**
214	214	-214	29.10	6562.94	6583.94	37.99	259.69	42659	-52.86	**-6583.94**	**-6583.94**
215	215	-215	32.60	6595.54	6616.54	38.18	260.98	42871	-53.13	**-6616.54**	**-6616.54**
216	216	-216	32.65	6628.19	6649.19	38.37	262.27	43083	-53.39	**-6649.19**	**-6649.19**
217	217	-217	32.57	6660.76	6681.76	38.55	263.56	43295	-53.65	**-6681.76**	**-6681.76**
218	218	-218	32.60	6693.36	6714.36	38.74	264.85	43507	-53.91	**-6714.36**	**-6714.36**
219	219	-219	32.50	6725.86	6746.86	38.93	266.14	43718	-54.17	**-6746.86**	**-6746.86**
220	220	-220	32.58	6758.44	6779.44	39.12	267.43	43930	-54.43	**-6779.44**	**-6779.44**
Length of 10				**319.17**							
221	221	-221	32.63	6791.07	6812.07	39.31	268.72	44142	-54.70	**-6812.07**	**-6812.07**
222	222	-222	32.57	6823.64	6844.64	39.50	270.01	44354	-54.96	**-6844.64**	**-6844.64**
223	223	-223	32.55	6856.19	6877.19	39.69	271.30	44565	-55.22	**-6877.19**	**-6877.19**
224	224	-224	32.60	6888.79	6909.79	39.87	272.59	44777	-55.48	**-6909.79**	**-6909.79**
225	225	-225	30.78	6919.57	6940.57	40.05	273.80	44977	-55.73	**-6940.57**	**-6940.57**
226	226	-226	32.60	6952.17	6973.17	40.24	275.09	45189	-55.99	**-6973.17**	**-6973.17**
227	227	-227	32.65	6984.82	7005.82	40.43	276.38	45401	-56.25	**-7005.82**	**-7005.82**
228	228	-228	32.62	7017.44	7038.44	40.62	277.68	45613	-56.51	**-7038.44**	**-7038.44**
229	229	-229	31.60	7049.04	7070.04	40.80	278.93	45819	-56.77	**-7070.04**	**-7070.04**
230	230	-230	31.78	7080.82	7101.82	40.99	280.18	46025	-57.02	**-7101.82**	**-7101.82**
Length of 10				**322.38**							
231	231	-231	32.50	7113.32	7134.32	41.17	281.47	46237	-57.28	**-7134.32**	**-7134.32**
232	232	-232	32.45	7145.77	7166.77	41.36	282.75	46448	-57.54	**-7166.77**	**-7166.77**
233	233	-233	32.47	7178.24	7199.24	41.55	284.04	46659	-57.80	**-7199.24**	**-7199.24**
234	234	-234	32.55	7210.79	7231.79	41.74	285.33	46870	-58.07	**-7231.79**	**-7231.79**
235	235	-235	32.56	7243.35	7264.35	41.93	286.61	47082	-58.33	**-7264.35**	**-7264.35**
236	236	-236	32.52	7275.87	7296.87	42.11	287.90	47293	-58.59	**-7296.87**	**-7296.87**
237	237	-237	30.00	7305.87	7326.87	42.29	289.09	47488	-58.83	**-7326.87**	**-7326.87**
238	238	-238	32.53	7338.40	7359.40	42.48	290.38	47700	-59.09	**-7359.40**	**-7359.40**
239	239	-239	32.52	7370.92	7391.92	42.67	291.66	47911	-59.35	**-7391.92**	**-7391.92**
240	240	-240	32.53	7403.45	7424.45	42.85	292.95	48122	-59.61	**-7424.45**	**-7424.45**
Length of 10				**322.63**							
241	241	-241	30.68	7434.13	7455.13	43.03	294.16	48322	-59.86	**-7455.13**	**-7455.13**
242	242	-242	31.55	7465.68	7486.68	43.21	295.41	48527	-60.11	**-7486.68**	**-7486.68**
243	243	-243	32.64	7498.32	7519.32	43.40	296.70	48739	-60.37	**-7519.32**	**-7519.32**
244	244	-244	32.55	7530.87	7551.87	43.59	297.99	48951	-60.64	**-7551.87**	**-7551.87**
245	245	-245	32.72	7563.59	7584.59	43.78	299.29	49163	-60.90	**-7584.59**	**-7584.59**
246	246	-246	32.60	7596.19	7617.19	43.97	300.58	49375	-61.16	**-7617.19**	**-7617.19**
247	247	-247	31.44	7627.63	7648.63	44.15	301.82	49580	-61.41	**-7648.63**	**-7648.63**
248	248	-248	32.68	7660.31	7681.31	44.34	303.11	49792	-61.67	**-7681.31**	**-7681.31**
249	249	-249	32.60	7692.91	7713.91	44.53	304.40	50004	-61.94	**-7713.91**	**-7713.91**
250	250	-250	32.75	7725.66	7746.66	44.72	305.70	50217	-62.20	**-7746.66**	**-7746.66**
Length of 10				**322.21**							
251	251	-251	32.54	7758.20	7779.20	44.91	306.99	50428	-62.46	**-7779.20**	**-7779.20**
252	252	-252	32.65	7790.85	7811.85	45.10	308.28	50641	-62.72	**-7811.85**	**-7811.85**

#	JTS IN	JTS OUT	JT LENGTH	TOTAL TUBING	TBG + BHA + KB	TBG VOLUME	CSG ANN VOLUME	STRING WEIGHT	LINER ANN VOLUME	TO FISH TOP	2ND FISH TOP
253	253	-253	31.48	7822.33	7843.33	45.28	309.52	50845	-62.98	**-7843.33**	**-7843.33**
254	254	-254	32.65	7854.98	7875.98	45.47	310.82	51057	-63.24	**-7875.98**	**-7875.98**
255	255	-255	32.62	7887.60	7908.60	45.66	312.11	51269	-63.50	**-7908.60**	**-7908.60**
256	256	-256	32.75	7920.35	7941.35	45.85	313.40	51482	-63.76	**-7941.35**	**-7941.35**
257	257	-257	32.60	7952.95	7973.95	46.03	314.69	51694	-64.02	**-7973.95**	**-7973.95**
258	258	-258	32.68	7985.63	8006.63	46.22	315.99	51907	-64.29	**-8006.63**	**-8006.63**
259	259	-259	32.50	8018.13	8039.13	46.41	317.27	52118	-64.55	**-8039.13**	**-8039.13**
260	260	-260	32.50	8050.63	8071.63	46.60	318.56	52329	-64.81	**-8071.63**	**-8071.63**
Length of 10				**324.97**							
261	261	-261	29.75	8080.38	8101.38	46.77	319.74	52522	-65.05	**-8101.38**	**-8101.38**
262	262	-262	30.82	8111.20	8132.20	46.95	320.96	52723	-65.30	**-8132.20**	**-8132.20**
263	263	-263	32.46	8143.66	8164.66	47.14	322.24	52934	-65.56	**-8164.66**	**-8164.66**
264	264	-264	32.45	8176.11	8197.11	47.33	323.52	53145	-65.82	**-8197.11**	**-8197.11**
265	265	-265	32.52	8208.63	8229.63	47.51	324.81	53356	-66.08	**-8229.63**	**-8229.63**
266	266	-266	32.53	8241.16	8262.16	47.70	326.10	53568	-66.34	**-8262.16**	**-8262.16**
267	267	-267	32.45	8273.61	8294.61	47.89	327.38	53778	-66.60	**-8294.61**	**-8294.61**
268	268	-268	31.56	8305.17	8326.17	48.07	328.63	53984	-66.85	**-8326.17**	**-8326.17**
269	269	-269	31.43	8336.60	8357.60	48.25	329.87	54188	-67.11	**-8357.60**	**-8357.60**
270	270	-270	31.47	8368.07	8389.07	48.44	331.12	54392	-67.36	**-8389.07**	**-8389.07**
Length of 10				**317.44**							
271	271	-271	31.50	8399.57	8420.57	48.62	332.37	54597	-67.61	**-8420.57**	**-8420.57**
272	272	-272	30.57	8430.14	8451.14	48.80	333.58	54796	-67.86	**-8451.14**	**-8451.14**
273	273	-273	30.50	8460.64	8481.64	48.97	334.78	54994	-68.10	**-8481.64**	**-8481.64**
274	274	-274	31.60	8492.24	8513.24	49.16	336.03	55200	-68.35	**-8513.24**	**-8513.24**
275	275	-275	31.25	8523.49	8544.49	49.34	337.27	55403	-68.61	**-8544.49**	**-8544.49**
276	276	-276	31.47	8554.96	8575.96	49.52	338.51	55607	-68.86	**-8575.96**	**-8575.96**
277	277	-277	31.60	8586.56	8607.56	49.70	339.76	55813	-69.11	**-8607.56**	**-8607.56**
278	278	-278	29.07	8615.63	8636.63	49.87	340.92	56002	-69.35	**-8636.63**	**-8636.63**
279	279	-279	31.56	8647.19	8668.19	50.05	342.16	56207	-69.60	**-8668.19**	**-8668.19**
280	280	-280	31.54	8678.73	8699.73	50.24	343.41	56412	-69.85	**-8699.73**	**-8699.73**
Length of 10				**310.66**							
281	281	-281	30.75	8709.48	8730.48	50.41	344.63	56612	-70.10	**-8730.48**	**-8730.48**
282	282	-282	30.28	8739.76	8760.76	50.59	345.83	56808	-70.34	**-8760.76**	**-8760.76**
283	283	-283	31.46	8771.22	8792.22	50.77	347.07	57013	-70.59	**-8792.22**	**-8792.22**
284	284	-284	31.58	8802.80	8823.80	50.95	348.32	57218	-70.85	**-8823.80**	**-8823.80**
285	285	-285	31.55	8834.35	8855.35	51.14	349.57	57423	-71.10	**-8855.35**	**-8855.35**
286	286	-286	31.60	8865.95	8886.95	51.32	350.82	57629	-71.36	**-8886.95**	**-8886.95**
287	287	-287	31.55	8897.50	8918.50	51.50	352.07	57834	-71.61	**-8918.50**	**-8918.50**
288	288	-288	31.55	8929.05	8950.05	51.68	353.32	58039	-71.86	**-8950.05**	**-8950.05**
289	289	-289	31.53	8960.58	8981.58	51.87	354.56	58244	-72.12	**-8981.58**	**-8981.58**
290	290	-290	31.55	8992.13	9013.13	52.05	355.81	58449	-72.37	**-9013.13**	**-9013.13**
Length of 10				**313.40**							
291	291	-291	33.07	9025.20	9046.20	52.24	357.12	58664	-72.63	**-9046.20**	**-9046.20**
292	292	-292	30.43	9055.63	9076.63	52.42	358.33	58862	-72.88	**-9076.63**	**-9076.63**
293	293	-293	31.55	9087.18	9108.18	52.60	359.57	59067	-73.13	**-9108.18**	**-9108.18**
294	294	-294	30.65	9117.83	9138.83	52.78	360.79	59266	-73.38	**-9138.83**	**-9138.83**
295	295	-295	31.53	9149.36	9170.36	52.96	362.03	59471	-73.63	**-9170.36**	**-9170.36**
296	296	-296	31.60	9180.96	9201.96	53.14	363.28	59676	-73.88	**-9201.96**	**-9201.96**
297	297	-297	30.72	9211.68	9232.68	53.32	364.50	59876	-74.13	**-9232.68**	**-9232.68**
298	298	-298	30.64	9242.32	9263.32	53.50	365.71	60075	-74.38	**-9263.32**	**-9263.32**
299	299	-299	31.60	9273.92	9294.92	53.68	366.96	60280	-74.63	**-9294.92**	**-9294.92**
300	300	-300	31.55	9305.47	9326.47	53.86	368.21	60486	-74.88	**-9326.47**	**-9326.47**
Length of 10				**313.34**							
301	301	-301	31.53	9337.00	9358.00	54.05	369.46	60691	-75.14	**-9358.00**	**-9358.00**
302	302	-302	31.67	9368.67	9389.67	54.23	370.71	60896	-75.39	**-9389.67**	**-9389.67**
303	303	-303	32.52	9401.19	9422.19	54.42	372.00	61108	-75.65	**-9422.19**	**-9422.19**
304	304	-304	31.57	9432.76	9453.76	54.60	373.25	61313	-75.91	**-9453.76**	**-9453.76**
305	305	-305	31.60	9464.36	9485.36	54.78	374.50	61518	-76.16	**-9485.36**	**-9485.36**
306	306	-306	31.60	9495.96	9516.96	54.97	375.75	61724	-76.41	**-9516.96**	**-9516.96**

#	JTS IN	JTS OUT	JT LENGTH	TOTAL TUBING	TBG + BHA + KB	TBG VOLUME	CSG ANN VOLUME	STRING WEIGHT	LINER ANN VOLUME	TO FISH TOP	2ND FISH TOP
307	307	-307	31.58	9527.54	9548.54	55.15	377.00	61929	-76.67	**-9548.54**	**-9548.54**
308	308	-308	31.57	9559.11	9580.11	55.33	378.25	62134	-76.92	**-9580.11**	**-9580.11**
309	309	-309	31.52	9590.63	9611.63	55.51	379.50	62339	-77.17	**-9611.63**	**-9611.63**
310	310	-310	31.53	9622.16	9643.16	55.70	380.74	62544	-77.43	**-9643.16**	**-9643.16**
Length of 10				**316.69**							
311	311	-311	31.55	9653.71	9674.71	55.88	381.99	62749	-77.68	**-9674.71**	**-9674.71**
312	312	-312	31.58	9685.29	9706.29	56.06	383.24	62954	-77.93	**-9706.29**	**-9706.29**
313	313	-313	31.53	9716.82	9737.82	56.24	384.49	63159	-78.19	**-9737.82**	**-9737.82**
314	314	-314	31.53	9748.35	9769.35	56.43	385.74	63364	-78.44	**-9769.35**	**-9769.35**
315	315	-315	31.60	9779.95	9800.95	56.61	386.99	63570	-78.69	**-9800.95**	**-9800.95**
316	316	-316	31.55	9811.50	9832.50	56.79	388.23	63775	-78.95	**-9832.50**	**-9832.50**
317	317	-317	31.56	9843.06	9864.06	56.97	389.48	63980	-79.20	**-9864.06**	**-9864.06**
318	318	-318	31.55	9874.61	9895.61	57.16	390.73	64185	-79.45	**-9895.61**	**-9895.61**
319	319	-319	31.60	9906.21	9927.21	57.34	391.98	64390	-79.71	**-9927.21**	**-9927.21**
P3 ucf **320**	320	-320	31.62	9937.83	9958.83	57.52	393.23	64596	-79.96	**-9958.83**	**-9958.83**
Length of 10				**315.67**							
321	321	-321	31.53	9969.36	9990.36	57.71	394.48	64801	-80.21	**-9990.36**	**-9990.36**
322	322	-322	31.64	10001.00	10022.00	57.89	395.73	65007	-80.47	**-10022.00**	**-10022.00**
323	323	-323	31.55	10032.55	10053.55	58.07	396.98	65212	-80.72	**-10053.55**	**-10053.55**
324	324	-324	31.55	10064.10	10085.10	58.25	398.23	65417	-80.98	**-10085.10**	**-10085.10**
325	325	-325	31.15	10095.25	10116.25	58.43	399.46	65619	-81.23	**-10116.25**	**-10116.25**
326	326	-326	30.98	10126.23	10147.23	58.61	400.69	65820	-81.47	**-10147.23**	**-10147.23**
327	327	-327	31.70	10157.93	10178.93	58.80	401.94	66027	-81.73	**-10178.93**	**-10178.93**
328	328	-328	30.55	10188.48	10209.48	58.97	403.15	66225	-81.97	**-10209.48**	**-10209.48**
329	329	-329	31.62	10220.10	10241.10	59.16	404.40	66431	-82.23	**-10241.10**	**-10241.10**
330	330	-330	31.53	10251.63	10272.63	59.34	405.65	66636	-82.48	**-10272.63**	**-10272.63**
Length of 10				**313.80**							
331	331	-331	31.52	10283.15	10304.15	59.52	406.90	66840	-82.73	**-10304.15**	**-10304.15**
332	332	-332	31.57	10314.72	10335.72	59.70	408.15	67046	-82.99	**-10335.72**	**-10335.72**
333	333	-333	31.65	10346.37	10367.37	59.89	409.40	67251	-83.24	**-10367.37**	**-10367.37**
334	334	-334	31.15	10377.52	10398.52	60.07	410.63	67454	-83.49	**-10398.52**	**-10398.52**
335	335	-335	33.38	10410.90	10431.90	60.26	411.95	67671	-83.76	**-10431.90**	**-10431.90**
336	336	-336	30.92	10441.82	10462.82	60.44	413.18	67872	-84.01	**-10462.82**	**-10462.82**
337	337	-337	32.75	10474.57	10495.57	60.63	414.47	68085	-84.27	**-10495.57**	**-10495.57**
338	338	-338	30.12	10504.69	10525.69	60.80	415.66	68280	-84.51	**-10525.69**	**-10525.69**
339	339	-339	31.60	10536.29	10557.29	60.99	416.91	68486	-84.77	**-10557.29**	**-10557.29**
340	340	-340	30.92	10567.21	10588.21	61.17	418.14	68687	-85.02	**-10588.21**	**-10588.21**
Length of 10				**315.58**							
341	341	-341	28.14	10595.35	10616.35	61.33	419.25	68870	-85.24	**-10616.35**	**-10616.35**
342	342	-342	31.06	10626.41	10647.41	61.51	420.48	69072	-85.49	**-10647.41**	**-10647.41**
343	343	-343	31.53	10657.94	10678.94	61.69	421.73	69277	-85.74	**-10678.94**	**-10678.94**
344	344	-344	33.40	10691.34	10712.34	61.88	423.05	69494	-86.01	**-10712.34**	**-10712.34**
345	345	-345	30.75	10722.09	10743.09	62.06	424.27	69694	-86.26	**-10743.09**	**-10743.09**
346	346	-346	30.20	10752.29	10773.29	62.24	425.46	69890	-86.50	**-10773.29**	**-10773.29**
347	347	-347	31.56	10783.85	10804.85	62.42	426.71	70095	-86.75	**-10804.85**	**-10804.85**
348	348	-348	31.60	10815.45	10836.45	62.60	427.96	70300	-87.01	**-10836.45**	**-10836.45**
349	349	-349	31.50	10846.95	10867.95	62.79	429.21	70505	-87.26	**-10867.95**	**-10867.95**
350	350	-350	31.55	10878.50	10899.50	62.97	430.46	70710	-87.51	**-10899.50**	**-10899.50**
Length of 10				**311.29**							
351	351	-351	33.44	10911.94	10932.94	63.16	431.78	70928	-87.78	**-10932.94**	**-10932.94**
352	352	-352	31.32	10943.26	10964.26	63.34	433.02	71131	-88.03	**-10964.26**	**-10964.26**
353	353	-353	31.20	10974.46	10995.46	63.52	434.25	71334	-88.29	**-10995.46**	**-10995.46**
354	354	-354	31.22	11005.68	11026.68	63.70	435.49	71537	-88.54	**-11026.68**	**-11026.68**
355	355	-355	31.57	11037.25	11058.25	63.89	436.74	71742	-88.79	**-11058.25**	**-11058.25**
356	356	-356	31.58	11068.83	11089.83	64.07	437.99	71947	-89.04	**-11089.83**	**-11089.83**
357	357	-357	32.25	11101.08	11122.08	64.26	439.26	72157	-89.30	**-11122.08**	**-11122.08**
358	358	-358	31.65	11132.73	11153.73	64.44	440.52	72363	-89.56	**-11153.73**	**-11153.73**
359	359	-359	31.57	11164.30	11185.30	64.62	441.76	72568	-89.81	**-11185.30**	**-11185.30**
360	360	-360	31.55	11195.85	11216.85	64.80	443.01	72773	-90.06	**-11216.85**	**-11216.85**

#	JTS IN	JTS OUT	JT LENGTH	TOTAL TUBING	TBG + BHA + KB	TBG VOLUME	CSG ANN VOLUME	STRING WEIGHT	LINER ANN VOLUME	TO FISH TOP	2ND FISH TOP
Length of 10				317.35							
361	361	-361	31.60	11227.45	11248.45	64.99	444.26	72978	-90.32	-11248.45	-11248.45
362	362	-362	31.51	11258.96	11279.96	65.17	445.51	73183	-90.57	-11279.96	-11279.96
363	363	-363	31.58	11290.54	11311.54	65.35	446.76	73389	-90.82	-11311.54	-11311.54
364	364	-364	31.50	11322.04	11343.04	65.54	448.01	73593	-91.08	-11343.04	-11343.04
365	365	-365	31.16	11353.20	11374.20	65.72	449.24	73796	-91.33	-11374.20	-11374.20
366	366	-366	31.83	11385.03	11406.03	65.90	450.50	74003	-91.58	-11406.03	-11406.03
367	367	-367	31.33	11416.36	11437.36	66.08	451.74	74206	-91.83	-11437.36	-11437.36
368	368	-368	31.55	11447.91	11468.91	66.26	452.99	74411	-92.09	-11468.91	-11468.91
369	369	-369	31.50	11479.41	11500.41	66.45	454.23	74616	-92.34	-11500.41	-11500.41
370	370	-370	31.35	11510.76	11531.76	66.63	455.47	74820	-92.59	-11531.76	-11531.76
Length of 10				314.91							
371	371	-371	31.56	11542.32	11563.32	66.81	456.72	75025	-92.84	-11563.32	-11563.32
372	372	-372	31.60	11573.92	11594.92	66.99	457.97	75230	-93.10	-11594.92	-11594.92
373	373	-373	30.23	11604.15	11625.15	67.17	459.17	75427	-93.34	-11625.15	-11625.15
374	374	-374	31.36	11635.51	11656.51	67.35	460.41	75631	-93.59	-11656.51	-11656.51
375	375	-375	31.45	11666.96	11687.96	67.53	461.65	75835	-93.85	-11687.96	-11687.96
376	376	-376	31.53	11698.49	11719.49	67.71	462.90	76040	-94.10	-11719.49	-11719.49
377	377	-377	31.50	11729.99	11750.99	67.90	464.15	76245	-94.35	-11750.99	-11750.99
378	378	-378	31.53	11761.52	11782.52	68.08	465.40	76450	-94.60	-11782.52	-11782.52
379	379	-379	31.00	11792.52	11813.52	68.26	466.62	76651	-94.85	-11813.52	-11813.52
380	380	-380	31.53	11824.05	11845.05	68.44	467.87	76856	-95.11	-11845.05	-11845.05
Length of 10				313.29							
381	381	-381	31.53	11855.58	11876.58	68.62	469.12	77061	-95.36	-11876.58	-11876.58
382	382	-382	31.53	11887.11	11908.11	68.81	470.37	77266	-95.61	-11908.11	-11908.11
383	383	-383	31.00	11918.11	11939.11	68.99	471.59	77468	-95.86	-11939.11	-11939.11
384	384	-384	31.00	11949.11	11970.11	69.17	472.82	77669	-96.11	-11970.11	-11970.11
385	385	-385	30.98	11980.09	12001.09	69.34	474.04	77871	-96.36	-12001.09	-12001.09
386	386	-386	31.50	12011.59	12032.59	69.53	475.29	78075	-96.61	-12032.59	-12032.59
387	387	-387	31.55	12043.14	12064.14	69.71	476.54	78280	-96.87	-12064.14	-12064.14
388	388	-388	31.53	12074.67	12095.67	69.89	477.79	78485	-97.12	-12095.67	-12095.67
389	389	-389	31.55	12106.22	12127.22	70.07	479.04	78690	-97.37	-12127.22	-12127.22
390	390	-390	30.97	12137.19	12158.19	70.25	480.26	78892	-97.62	-12158.19	-12158.19
Length of 10				313.14							
391	391	-391	31.35	12168.54	12189.54	70.44	481.50	79096	-97.87	-12189.54	-12189.54
392	392	-392	30.95	12199.49	12220.49	70.61	482.73	79297	-98.12	-12220.49	-12220.49
393	393	-393	31.53	12231.02	12252.02	70.80	483.97	79502	-98.37	-12252.02	-12252.02
394	394	-394	30.98	12262.00	12283.00	70.98	485.20	79703	-98.62	-12283.00	-12283.00
395	395	-395	31.52	12293.52	12314.52	71.16	486.45	79908	-98.88	-12314.52	-12314.52
396	396	-396	31.43	12324.95	12345.95	71.34	487.69	80112	-99.13	-12345.95	-12345.95
397	397	-397	31.52	12356.47	12377.47	71.52	488.94	80317	-99.38	-12377.47	-12377.47
398	398	-398	31.30	12387.77	12408.77	71.70	490.18	80521	-99.63	-12408.77	-12408.77
399	399	-399	31.35	12419.12	12440.12	71.89	491.42	80724	-99.88	-12440.12	-12440.12
400	400	-400	31.50	12450.62	12471.62	72.07	492.66	80929	-100.14	-12471.62	-12471.62
Length of 10				313.43							
401	401	-401	31.56	12482.18	12503.18	72.25	493.91	81134	-100.39	-12503.18	-12503.18
402	402	-402	31.53	12513.71	12534.71	72.43	495.16	81339	-100.64	-12534.71	-12534.71
403	403	-403	30.98	12544.69	12565.69	72.61	496.39	81540	-100.89	-12565.69	-12565.69
404	404	-404	31.57	12576.26	12597.26	72.80	497.63	81746	-101.15	-12597.26	-12597.26
405	405	-405	30.65	12606.91	12627.91	72.97	498.85	81945	-101.39	-12627.91	-12627.91
406	406	-406	31.56	12638.47	12659.47	73.16	500.10	82150	-101.65	-12659.47	-12659.47
407	407	-407	31.55	12670.02	12691.02	73.34	501.34	82355	-101.90	-12691.02	-12691.02
408	408	-408	31.53	12701.55	12722.55	73.52	502.59	82560	-102.15	-12722.55	-12722.55
409	409	-409	31.50	12733.05	12754.05	73.70	503.84	82765	-102.41	-12754.05	-12754.05
410	410	-410	31.50	12764.55	12785.55	73.89	505.09	82970	-102.66	-12785.55	-12785.55
Length of 10				313.93							
411	411	-411	31.00	12795.55	12816.55	74.06	506.31	83171	-102.91	-12816.55	-12816.55
412	412	-412	31.46	12827.01	12848.01	74.25	507.56	83376	-103.16	-12848.01	-12848.01
413	413	-413	31.50	12858.51	12879.51	74.43	508.80	83580	-103.41	-12879.51	-12879.51

#	JTS IN	JTS OUT	JT LENGTH	TOTAL TUBING	TBG + BHA + KB	TBG VOLUME	CSG ANN VOLUME	STRING WEIGHT	LINER ANN VOLUME	TO FISH TOP	2ND FISH TOP
414	414	-414	31.33	12889.84	12910.84	74.61	510.04	83784	-103.66	**-12910.84**	**-12910.84**
415	415	-415	31.49	12921.33	12942.33	74.79	511.29	83989	-103.92	**-12942.33**	**-12942.33**
416	416	-416	31.52	12952.85	12973.85	74.98	512.54	84194	-104.17	**-12973.85**	**-12973.85**
417	417	-417	31.00	12983.85	13004.85	75.15	513.76	84395	-104.42	**-13004.85**	**-13004.85**
418	418	-418	31.47	13015.32	13036.32	75.34	515.01	84600	-104.67	**-13036.32**	**-13036.32**
419	419	-419	31.50	13046.82	13067.82	75.52	516.25	84804	-104.92	**-13067.82**	**-13067.82**
420	420	-420	31.55	13078.37	13099.37	75.70	517.50	85009	-105.18	**-13099.37**	**-13099.37**
Length of 10				**313.82**							
421	421	-421	33.37	13111.74	13132.74	75.89	518.82	85226	-105.45	**-13132.74**	**-13132.74**
422	422	-422	29.67	13141.41	13162.41	76.07	520.00	85419	-105.68	**-13162.41**	**-13162.41**
423	423	-423	31.57	13172.98	13193.98	76.25	521.25	85624	-105.94	**-13193.98**	**-13193.98**
424	424	-424	31.52	13204.50	13225.50	76.43	522.49	85829	-106.19	**-13225.50**	**-13225.50**
425	425	-425	30.95	13235.45	13256.45	76.61	523.72	86030	-106.44	**-13256.45**	**-13256.45**
426	426	-426	31.47	13266.92	13287.92	76.79	524.96	86235	-106.69	**-13287.92**	**-13287.92**
427	427	-427	31.50	13298.42	13319.42	76.98	526.21	86440	-106.94	**-13319.42**	**-13319.42**
428	428	-428	31.35	13329.77	13350.77	77.16	527.45	86644	-107.20	**-13350.77**	**-13350.77**
429	429	-429	31.47	13361.24	13382.24	77.34	528.70	86848	-107.45	**-13382.24**	**-13382.24**
430	430	-430	31.57	13392.81	13413.81	77.52	529.95	87053	-107.70	**-13413.81**	**-13413.81**
Length of 10				**314.44**							
431	431	-431	31.50	13424.31	13445.31	77.70	531.19	87258	-107.96	**-13445.31**	**-13445.31**
432	432	-432	31.66	13455.97	13476.97	77.89	532.44	87464	-108.21	**-13476.97**	**-13476.97**
433	433	-433	31.20	13487.17	13508.17	78.07	533.68	87667	-108.46	**-13508.17**	**-13508.17**
434	434	-434	29.97	13517.14	13538.14	78.24	534.86	87861	-108.70	**-13538.14**	**-13538.14**
435	435	-435	31.45	13548.59	13569.59	78.42	536.11	88066	-108.95	**-13569.59**	**-13569.59**
436	436	-436	31.47	13580.06	13601.06	78.61	537.35	88270	-109.21	**-13601.06**	**-13601.06**
437	437	-437	29.95	13610.01	13631.01	78.78	538.54	88465	-109.45	**-13631.01**	**-13631.01**
438	438	-438	31.02	13641.03	13662.03	78.96	539.77	88667	-109.70	**-13662.03**	**-13662.03**
439	439	-439	31.05	13672.08	13693.08	79.14	541.00	88869	-109.94	**-13693.08**	**-13693.08**
440	440	-440	31.30	13703.38	13724.38	79.32	542.23	89072	-110.20	**-13724.38**	**-13724.38**
Length of 10				**310.57**							
441	441	-441	30.98	13734.36	13755.36	79.50	543.46	89273	-110.44	**-13755.36**	**-13755.36**
442	442	-442	31.55	13765.91	13786.91	79.68	544.71	89478	-110.70	**-13786.91**	**-13786.91**
443	443	-443	31.56	13797.47	13818.47	79.86	545.96	89684	-110.95	**-13818.47**	**-13818.47**
444	444	-444	31.52	13828.99	13849.99	80.05	547.20	89888	-111.20	**-13849.99**	**-13849.99**
445	445	-445	31.00	13859.99	13880.99	80.23	548.43	90090	-111.45	**-13880.99**	**-13880.99**
446	446	-446	31.55	13891.54	13912.54	80.41	549.68	90295	-111.71	**-13912.54**	**-13912.54**
447	447	-447	31.38	13922.92	13943.92	80.59	550.92	90499	-111.96	**-13943.92**	**-13943.92**
448	448	-448	31.55	13954.47	13975.47	80.77	552.17	90704	-112.21	**-13975.47**	**-13975.47**
449	449	-449	31.53	13986.00	14007.00	80.96	553.42	90909	-112.47	**-14007.00**	**-14007.00**
450	450	-450	31.50	14017.50	14038.50	81.14	554.66	91114	-112.72	**-14038.50**	**-14038.50**
Length of 10				**314.12**							
451	451	-451	31.52	14049.02	14070.02	81.32	555.91	91319	-112.97	**-14070.02**	**-14070.02**
452	452	-452	31.00	14080.02	14101.02	81.50	557.14	91520	-113.22	**-14101.02**	**-14101.02**
453	453	-453	31.55	14111.57	14132.57	81.68	558.39	91725	-113.47	**-14132.57**	**-14132.57**
454	454	-454	31.52	14143.09	14164.09	81.86	559.63	91930	-113.73	**-14164.09**	**-14164.09**
455	455	-455	31.57	14174.66	14195.66	82.05	560.88	92135	-113.98	**-14195.66**	**-14195.66**
456	456	-456	31.55	14206.21	14227.21	82.23	562.13	92340	-114.23	**-14227.21**	**-14227.21**
457	457	-457	31.50	14237.71	14258.71	82.41	563.38	92545	-114.49	**-14258.71**	**-14258.71**
458	458	-458	30.95	14268.66	14289.66	82.59	564.60	92746	-114.73	**-14289.66**	**-14289.66**
459	459	-459	31.53	14300.19	14321.19	82.77	565.85	92951	-114.99	**-14321.19**	**-14321.19**
460	460	-460	30.98	14331.17	14352.17	82.95	567.08	93153	-115.24	**-14352.17**	**-14352.17**
Length of 10				**313.67**							
461	461	-461	31.55	14362.72	14383.72	83.14	568.32	93358	-115.49	**-14383.72**	**-14383.72**
462	462	-462	30.73	14393.45	14414.45	83.31	569.54	93557	-115.74	**-14414.45**	**-14414.45**
463	463	-463	31.50	14424.95	14445.95	83.50	570.79	93762	-115.99	**-14445.95**	**-14445.95**
464	464	-464	31.40	14456.35	14477.35	83.68	572.03	93966	-116.24	**-14477.35**	**-14477.35**
465	465	-465	31.55	14487.90	14508.90	83.86	573.28	94171	-116.50	**-14508.90**	**-14508.90**
466	466	-466	31.60	14519.50	14540.50	84.04	574.53	94377	-116.75	**-14540.50**	**-14540.50**
467	467	-467	31.52	14551.02	14572.02	84.23	575.77	94582	-117.00	**-14572.02**	**-14572.02**

#	JTS IN	JTS OUT	JT LENGTH	TOTAL TUBING	TBG + BHA + KB	TBG VOLUME	CSG ANN VOLUME	STRING WEIGHT	LINER ANN VOLUME	TO FISH TOP	2ND FISH TOP
468	468	-468	31.00	14582.02	14603.02	84.41	577.00	94783	-117.25	**-14603.02**	**-14603.02**
469	469	-469	31.52	14613.54	14634.54	84.59	578.25	94988	-117.50	**-14634.54**	**-14634.54**
470	470	-470	31.50	14645.04	14666.04	84.77	579.50	95193	-117.76	**-14666.04**	**-14666.04**
Length of 10				**313.87**							
471	471	-471	31.00	14676.04	14697.04	84.95	580.72	95394	-118.01	**-14697.04**	**-14697.04**
472	472	-472	32.72	14708.76	14729.76	85.14	582.02	95607	-118.27	**-14729.76**	**-14729.76**
473	473	-473	32.60	14741.36	14762.36	85.33	583.31	95819	-118.53	**-14762.36**	**-14762.36**
474	474	-474	32.55	14773.91	14794.91	85.52	584.59	96030	-118.79	**-14794.91**	**-14794.91**
475	475	-475	31.38	14805.29	14826.29	85.70	585.84	96234	-119.04	**-14826.29**	**-14826.29**
476	476	-476	32.50	14837.79	14858.79	85.89	587.12	96446	-119.30	**-14858.79**	**-14858.79**
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Length of 10				**192.75**							
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Length of 10				**0.00**							
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Length of 10				**0.00**							