

# Hiawatha Field Area General Information

- The wells not drilled by Whiting Oil and Gas Corporation (WOGC) but operated by WOGC until January of 2016 in this field have had multiple operators prior to WOGC. Therefore WOGC does not have a complete file of every document that was formulated or filed for these wells in the past.
- Based on a review of the files at COGCC and BLM there is very little in the files of the agencies either. It is uncertain why the records are so poor, but the multiplicity of operators and the multiple offices of USGS and later BLM that at various times had oversight responsibility for these wells is probably a contributing factor
- This area was under the jurisdiction of three different WOGC Foreman, several engineers and three different production offices were involved in its operation which no doubt contributed to the poor records.

# Lion Government 1 – Hiawatha 1 - Battery Site

- The original battery at site (no longer exists) served Lion Government 1 (aka Hiawatha 1) API 05-081-05507 that was drilled in 1957 and possibly two additional wells on some level. Later Lion Government 6 was drilled at the old battery site.
- In 10-2004 abandonment was approved by BLM. In 2014 a P&A report was filed after the fact with COGCC for the P&A that was performed in 2004. COGCC approved the report based on NOI previously filed.
- Lion Government 1, (aka Hiawatha 1), had a permitted earthen evaporation pit 6' X 4' X 2' evaporation pit for the battery. The permit was submitted by Monsanto in 1971. It was approved by COGCC in 1973 as Permit No. 116673 (Copy Attached). No API number is listed on the application or approval. The application permitted an existing pit, probably built sometime around 1957. This action predates WOGC's operation of the site.

# Lion Government 1 – Hiawatha 1 - Battery Site

- Monsanto submitted a request to build a 25' X 25' water retention pit to USGS Rock Springs Office in 1977. There is no evidence in our file, the COGCC file or the BLM files that COGCC received this permit. There is no evidence in WOGC, COGCC or BLM files this pit was actually approved by BLM or constructed.
- The larger pit was described in the permitting as being placed 100' east of the Hiawatha 1 wellhead. This would place the larger pit under Moffat County Road 63 if it was constructed where we believe the well was on the west site of CR 63. WOGC does not believe it was ever constructed. This action predates WOGC's operation of the site.
- Last mention of a pit at the Hiawatha 1 Battery Site is in a site security filing from BHP in 1987 showing a very small "pit" just east of the well's separator. It does not say whether that pit was an earthen, fiberglass or steel. WOGC believes that is likely to be the same earthen pit as permitted in 1971. This action predates WOGC's operation of the site. (Attached)

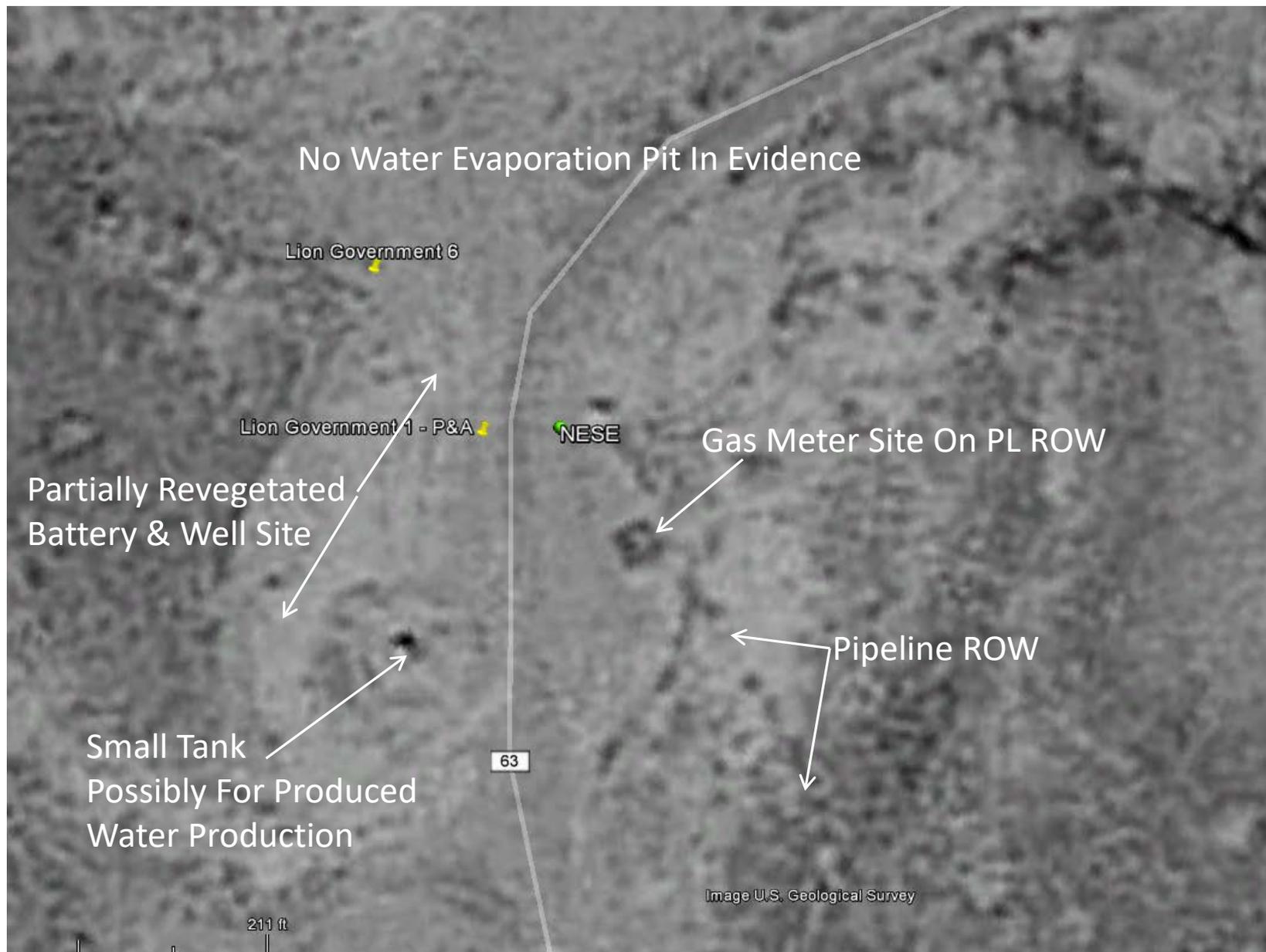
# Lion Government 1 – Hiawatha 1 - Battery Site

- There is no imagery available on Google prior to 1993. No earthen production pit is visible on a 1993 Google Earth air photo. The photo is of poor quality but seems to show only a very small tank at the Lion Government 1 site (aka Hiawatha 1 Battery site). The use of the tank, if that is what it was, is uncertain. It may be they were using a small tank in place of a pit for water disposal before the facility was shut-down. This action predates WOGC's operation of the site.
- East of CR 63 there is a fenced square on the 1993 air photo. The photo's quality is poor. The square area is located on a pipeline ROW which suggests it is most likely an enclosure for gas sales metering equipment. Based on the available records the Lion Government 1 (aka Hiawatha 1) well head and facilities were west of CO 63. They would not have located a pit on the opposite side of the road from the well and facility. Also a production water pit would not be located on top of a pipeline. There is now an unfenced gas sales meter house at the same location on the 2014 satellite image which seems to confirm this square area has always been a gas meter site.

# Lion Government 1 – Hiawatha 1 - Battery Site

- The site was largely reclaimed prior to 1993 based on the air photo. This action predates WOGC's operation of the site.
- Based on the 1993 photo the original earth water evaporation pit Permit Number 116673 was reclaimed prior to 1993 by one of the prior operators, most likely when many of the other earth pits in the state were reclaimed when the rules on evaporation pits changed in the late 1980s. This action predates WOGC's operation of the site.
- There was a drilling reserve pit constructed and covered in the 1950s and closure was handled as part of the drilling operation and did not require any additional submittals. This action predates WOGC's operation of the site.
- A newer well, Lion Government 6, was located on what we believe is the site of the reclaimed Hiawatha 1 Battery.
- WOGC is submitting a retroactive filing showing the reclamation of the pit with attachments supporting the pits history. Obviously in this case we cannot be specific about when it was reclaimed other than prior to 1993.

# Lion Government 1 – Hiawatha 1 Site - 1993



# Lion Government 1 – Hiawatha 1 Site - 2014





STATE OF COLORADO  
OIL AND GAS CONSERVATION COMMISSION  
Department of Natural Resources

RECEIVED

NOV 2 1971

APPLICATION FOR PERMIT TO USE EARTHEN PIT

COLORADO OIL & GAS CONSERVATION COMMISSION

1. CHECK ONE:

NEW PIT

EXISTING PIT

TREATMENT FACILITY

OTHER

2. NAME OF OPERATOR

Monsanto Company

Hiawatha West

3. ADDRESS OF OPERATOR

PHONE NO.

~~Suite 1102 Lincoln Tower Bldg., 1860 Lincoln St., Denver, Colorado 80203~~ 222-5641

4. LEASE NAME

Hiawatha (Well 1)

5. PRODUCING FORMATION

Lewis - Mesa Verde oil

6. GROUND ELEVATION

6879

7. LOCATION (Report location clearly to the nearest 10 acres)

C NE 1/4 SE 1/4 Sec. 26, Twp. 12N, Rge. 101W

8. COUNTY

Moffat

9. STATE

Colorado

10. SIZE OF PIT:

LENGTH 6 FT.

WIDTH 4 FT.

DEPTH 2 FT.

11. CAPACITY

8 BBL.S.

12. ESTIMATED INFLOW

7.5 BIS/DAY

13. DISPOSAL OF PIT CONTENT:

HAULED \_\_\_\_\_ DISPOSAL WELL \_\_\_\_\_ EVAPORATION

14. MAXIMUM FLUID LEVEL ABOVE AVG. GROUND LEVEL

\_\_\_\_\_ FT.

15. DRAINAGE DISTANCE IN FEET TO CLOSEST FRESH WATER POND, STREAM OR LAKE

Drainage Distance to Wash Creek 900 FT.

16. SUBSOIL TYPE

Sandy (See Attachment)

17. TYPE OF SEALING MATERIAL (Including specifications and Method of Application)

None

DIR	
SP	
1	<input checked="" type="checkbox"/>
2	<input checked="" type="checkbox"/>

18. ADDITIONAL INFORMATION (By attachment include detailed plan of operation, chemical analysis of produced water, necessary maps, logs and other information as may be required by Rules 325 and 326 of the Rules and Regulations of the Oil and Gas Conservation Commission.)

1. Sketch of pit area.
2. Sketch of storage and final separation of produced fluids (plan of operation)
3. Chemical analysis of water.
4. Description of nature of the strata between bottom of pit and nearest fresh water source below such pit.
5. Topographic map showing location of pit.

19. I HEREBY CERTIFY THAT THE FOREGOING IS TRUE AND CORRECT

SIGNED William M. Hazard TITLE Engineer DATE 10-22-71

THIS SPACE FOR COMMISSION USE

APPROVED BY Al Rogers TITLE DIRECTOR DATE AUG 17 1973

CONDITIONS OF APPROVAL, IF ANY:

SEE ATTACHED MEMO



00706892

116673

RECEIVED

NOV 2 1971

4'

COLORADO OIL & GAS CORP. 660071



00706893

6'

APPROX. DEPTH 3'

HIAWATHA #1 EXISTING PIT

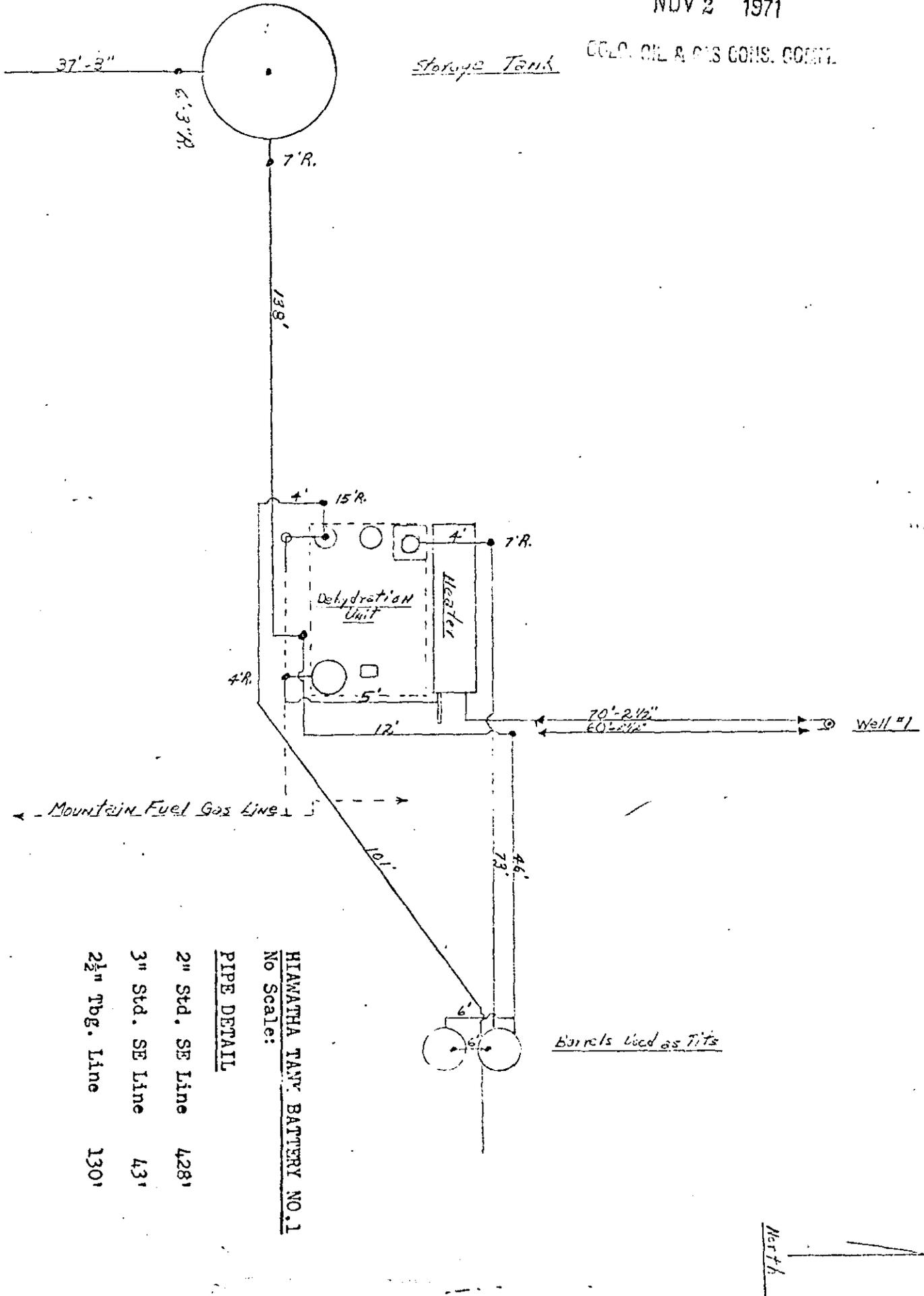
EVAPORATION

FLUID LEVEL ABOVE GROUND — 0 FT.

RECEIVED

NOV 2 1971

COLO. OIL & GAS CONS. BOARD



HIAWATHA TANK BATTERY NO. 1  
No Scale:

PIPE DETAIL

- 2" Std. SE Line 428'
- 3" Std. SE Line 43'
- 2 1/2" Pbg. Line 130'

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE  
(Other instructions on  
reverse side)

Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.  
D-053178

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Hiawatha

9. WELL NO.

1, 2, & 3

10. FIELD AND POOL, OR WILDCAT

Hiawatha West

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

Sec. 26 & 36, T12N, R101W

12. COUNTY OR PARISH

Moffat

13. STATE

Colorado

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR

BHP Petroleum Company Inc.

3. ADDRESS OF OPERATOR

5613 DTC Parkway, Ste. 600, Englewood, Colorado

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

14. PERMIT NO.

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

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

X

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(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.)\*

Update Site Security Diagrams.

ACCEPTED FOR THE RECORD

MAR 02 1987

CRAIG DISTRICT OFFICE

BY AS

RECEIVED  
 DISTRICT OFFICE  
 MAR 02 1987  
 5:30 PM

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

SIGNED Chuck Williams

TITLE Field Service Administrator

DATE February 13, 1987

Chuck Williams

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

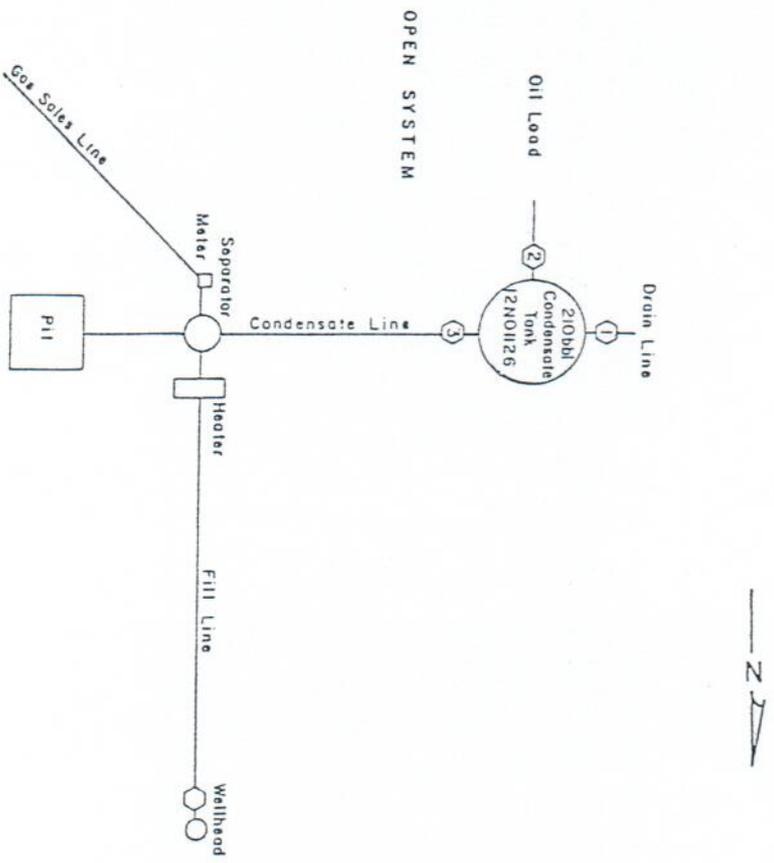
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Well # 1, 2, & 3

Sales Phase From  
 Tank 12N01126

Valve No.	Production Phase	Sales Phase
1	Open	Closed & Sealed
2	Closed & Sealed	Open
3	Open	Closed & Sealed

Note: During the production phase other activities may be ongoing, water can be drawn off, production circulated through the treaters or clean oil transferred.



BHP Petroleum  
 HIAWATHA FIELD  
 WELL NO. 1  
 NE/4SE/4 Sec. 26, T12N, R101W  
 LEASE NO. D-053178  
 MOFFAT CO., COLORADO