

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 3 – Hiawatha 3 Site

- This site is on federal surface and minerals
- COGCC approved the existing pit for Lion Government 3 (aka Hiawatha 3), API 05- 081-05490, on a form submittal dated October 26, 1971 signed by COGCC 8-17-1973. This permit, submitted by Monsanto, was assigned Pit Permit No. 116548. No API number is listed on the application or approval. This Pit Number 116548 later shows up under the COGIS system under BHP for the well. That would be correct because BHP acquired Monsanto.
- WOGC acquired the well from Medicine Bow in August 2004. For some reason the COGC system then starts associating a new pit number 100560 with Whiting as the permittee but it also shows the original number assigned to WOGC at the same site. Whiting never applied for a new pit nor did it seek a new pit number or construct any new pit. Perhaps someone in COGCC issued a new pit number because of the sale.
- In an extensive review of COGCC, WOGC and BLM files WOGC was only able to locate a permit filing from the 1971 filing that supports Pit Number 116548, the original pit. No permit application or approval was found for Pit Number 100560. The state lists the same API for both pits on their correspondence to WOGC. We believe Pit Permit Number 100560 refers to the same pit as Permit No. 116548.

Lion Government 3 – Hiawatha 3 Site

- A permit to build a 25' X 25' water retention pit was submitted to USGS Rock Springs Office in 1977 as it was for the Hiawatha 1 aka Lion Government site. It is not clear if the State of Colorado received this permit. There is no evidence this pit was actually approved or constructed in WOGC, COGCC or BLM files. The larger pit was described in the permitting as being placed 75 feet south of the wellhead. The pit shown on the 1993 air photo seems too small to be a 25' X 25' pit.
- The pit on the 2014 satellite image and is located at the same point as the pit on the 1993 air photo so it is the same permitted pit, not a new pit. The pit still exists and we do not believe there has never been more than one pit on the site based on all the available records and the air photo evidence.
- There was a drilling reserve pit constructed and covered in the 1950s but at that time closure was handled as part of the drilling operation and did not require any additional submittals.

Lion Government 3 – Hiawatha 3 Site - 1993



Lion Government 3 – Hiawatha 3 Site - 2014





STATE OF COLORADO
AND GAS CONSERVATION COMMISSION
Department of Natural Resources

RECEIVED
NOV 2 1971

APPLICATION FOR PERMIT TO USE EARTHEN PIT 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 *Suite 1102 Lincoln Tower Bldg., 1860 Lincoln St., Denver, Colorado 80203* PHONE NO. *222-5641*

4. LEASE NAME *Hiawatha (Well 3)* 5. PRODUCING FORMATION *Lewis - ~~Monaca~~ ^{Phone Call} ~~Monaca~~* 6. GROUND ELEVATION *6890*

7. LOCATION (Report location clearly to the nearest 10 acres) *C NW¹/₄ NW¹/₄ Sec. 36, 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* BBLs. 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 *10,000 ?* FT.

16. SUBSOIL TYPE
Sandy (See Attachment)

17. TYPE OF SEALING MATERIAL (Including specifications and Method of Application)
None

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 *10-26-71*

THIS SPACE FOR COMMISSION USE

APPROVED BY *Al Rogers* TITLE *Assistant Engineer* DATE *AUG 17 1973*

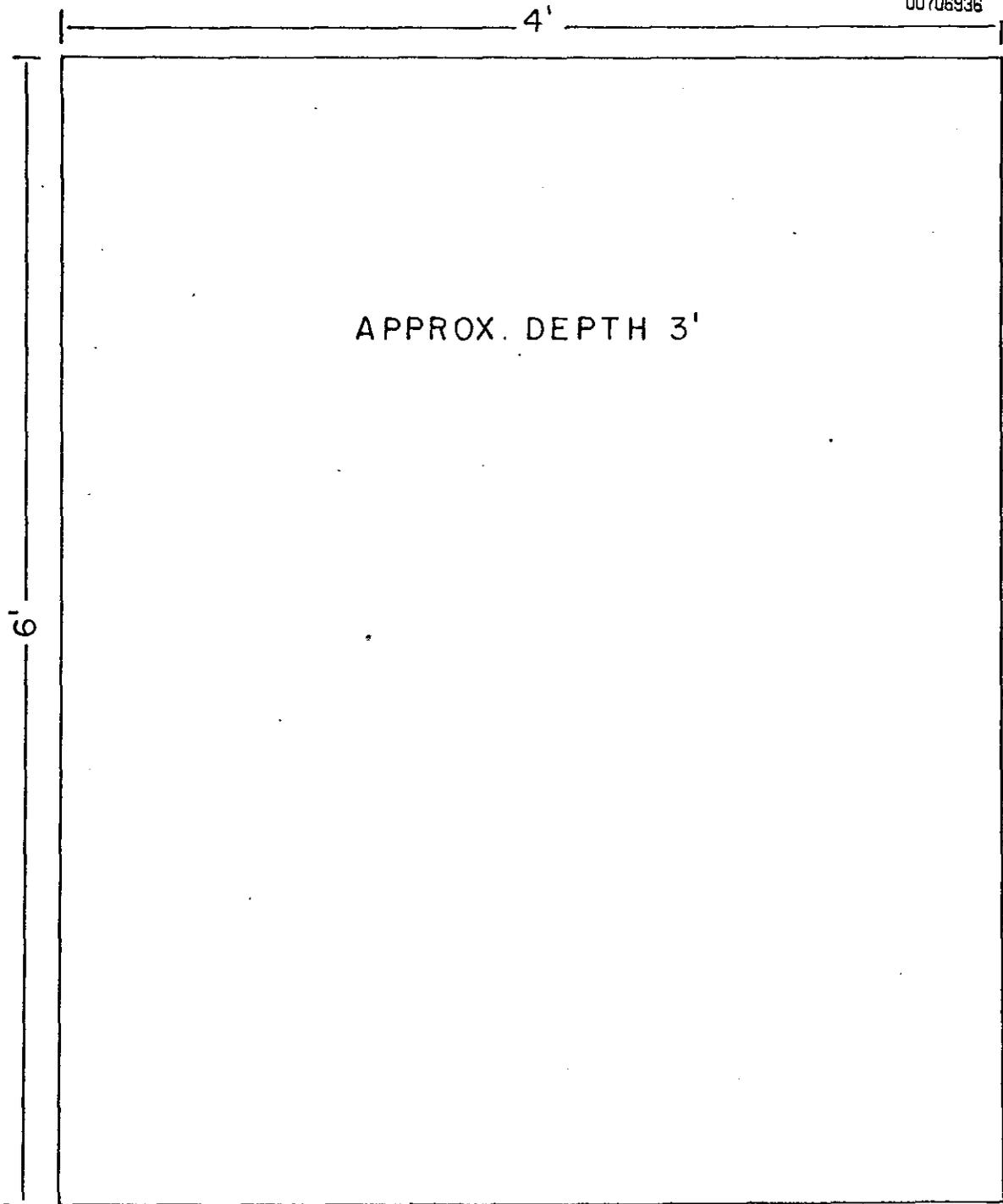
CONDITIONS OF APPROVAL, IF ANY:
SEE ATTACHED MEMO



116548



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HIAWATHA # 3 EXISTING PIT
EVAPORATION
FLUID LEVEL ABOVE GROUND — 0 FT.