

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

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 <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. NM 13751	
2. NAME OF OPERATOR J. Gregory Merrion and Robert L. Bayless		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR P.O. Box 507, Farmington, New Mexico 87401		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface  790 FSL and 890 FWL		8. FARM OR LEASE NAME South Huerfano	
14. PERMIT NO.		9. WELL NO. 1	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 7314 KB		10. FIELD AND POOL, OR WILDCAT Undesignated	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 35, T25N, R8W	
		12. COUNTY OR PARISH San Juan	13. STATE N.M.

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input checked="" type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input checked="" type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input checked="" type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Recompletion in Gallup</u> <input checked="" type="checkbox"/>	

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

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

Attached is the chronological workover report on the  
South Huerfano #1. Operations commenced August 20, 1976,  
and were concluded on November 2, 1976.



DEC 18 1976

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

SIGNED Herbert L. Merrion TITLE Engineer DATE 12-8-76

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

## SOUTH HUERFANO #1

### Workover Report

Aug. 20, 1976 Spotted rig and moved in drilling equipment. Pulling sucker rods.

Aug. 21, 1976 Paraffin problems; attempted to hot oil, unsuccessfully, stripping out rods and tubing.

Aug. 23, 1976 Finished stripping rods and tubing. Ran in hole with rock bit and collars. Tagged fill up at 7134.4' KB. Picked up and SDON.

Aug. 24, 1976 Rigged up swivel and lines, circulated hole and well kicked off flowing. Flowed oil to the stock tank for 45 minutes. Started drilling. Made 12' of very hard drilling. SDON

Aug. 26, 1976 Ran sinker bar to TD, measured 7163'KB. Ran impression block, hung up 200' higher than sinker bars. Cut down block 1/16" all around and ran in. Tagged 200' higher than sinker bar again, impression indicates tight hole.

Aug. 27, 1976 Running mill shoe with washover pipe and hydraulic jars. Tagged at 7160' KB. Milling until 5:00 p.m. Trip out of hole. SDON

Aug. 28, 1976 Ran impression block. Indications of bad casing. Ran tapered mill and milling blew pit and filled with clean water. TD at 7163.12' KB.

Aug. 30, 1976 Milled until 2:00 p.m. Increase in pump pressure noted. Trip out with mill and found it plugged off with metal chunks. Ran impression block and SDON.

Aug. 31, 1976 Ran in with tubing overshot. Worked tool for 1-1/2 hrs. Trip out without fish. Drag of 30,000 lbs. over the string weight on bottom when starting out. Ran impression block, indicated bad casing. SDON

Sep. 01, 1976 Trip in with tapered cut-rite mill, tagged at 7165' KB. Milled rest of the day.

Sep. 02, 1976 Started milling at 7169' KB, returning metal and cement.

Sep. 03, 1976 Started milling at 7184' KB. Milled until 3:00 P.M. TD at 7193'KB. Trip out with tapered mill. Ran in with mill shoe and washover. Tagged at 7193' KB. Milling until tomorrow morning.

Sep. 04, 1976 Milling. Tubing parted 103 joint from surface. Ran over shot, latched onto fish and ran out of the hole. Replaced the bad joint and ran back in. No fill-up. Milling again. Shut down at 8:00 a.m.

Sep. 07, 1976 Lost 15 bbls. water establishing circulation. Milling and returning wood fibers, metal, and cement. Stopped milling at 7199' KB. Tried to force over bridge plug with wash pipe. Pulling up had 25,000 lb. drag over tubing weight. Picked up and SDON.

- Sep. 08, 1976      Cleaned hole and tripped out. Replaced mill shoe and ran in. Milling with same returns. SDON.
- Sep. 09, 1976      Milled until 10:30 A.M. TD at 7203' KB. Bounced mill shoe on top of bridge plug. Coming out dragging 35,000 lb. over tubing weight. Tripped out, had old bridge plug in mill shoe. Trip in with button bit and tagged bottom. Shut down awaiting fuel.
- Sep. 10, 1976      Tagged at 7206' KB. Drilled out cement, rubber plugs in float collar and casing shoe. Then drilled 3' into open hole. Circulated hole clean, and blew mud pit. Preparing to mud-up.
- Sep. 11, 1976      Mixing mud. Attempting to reverse hole. Required 165 bbls. Pumped approximately 153 bbls. from first pit. No mud returning. Pumped approximately 60 bbls. from second pit, no mud returning. Switch to conventional and no trouble circulating. Mixed 2-1/2 pits of mud with 13 sacks gel and one sack CMC per pit.
- Sep. 13, 1976      Tagged TD at 7271' KB and drilling new hole. Had gas and paraffin returns to pit coincidental with drilling break. Shut down at 7290' KB.
- Sep. 14, 1976      Tagged bottom circulated 13' of fill-up before making new hole. Tripped out, broke off bit, running in to test with Model "R" packer and tubing disc. Disc broke 1 stand from bottom. Trouble setting Model "R" packer. Finally set and SDON.
- Sep. 15, 1976      Displaced mud from tubing with water. Reset Model "R". Trying to swab test. Can't because of paraffin and tubing conditions. Trip out with packer and SDON.
- Sep. 16, 1976      Ran in with button bit tagged bottom. Started drilling. TD at midnight 7325' KB.
- Sep. 17, 1976      Changed stripping rubber at midnight. Started drilling at 12:00. Pump broke down at 3:30 a.m. Worked on pump until 4:00 a.m., then drilling again to TD at 7340' KB. Circulated hole until 9:30 a.m. to clean. Tripped out with bit. Made up Model "R" packer and tubing disc test assembly and ran it in. Tubing disc broke at 88 stands in. Set Model "R" packer, displaced mud from hole, and couldn't swab past 3100'. Tried to hot water, no good. SDON at 9:20 p.m.
- Sep. 20, 1976      Pulled 47 stands of tubing, and could not clean with hot water. Hot oil truck broke down so SDON.
- Sep. 21, 1976      Clean paraffin out of tubing in successive stages with hot oil truck feeding mud pump. SDON.
- Sep. 22, 1976      Run in with tubing. Set Model "R" packer at 7135' KB. Swabbed tubing dry to seating nipple. After one hour, no fluid entry detectable. Rigged up Western Company. Unable to pressure backside. spotted 500 gal. 7-1/2% HCL and flushed with fresh water. Tremendous break back just after first pressure encountered. SDON

- Sep. 23, 1976     Tubing pressure 600 PSIG; casing dead. Swabbed back 35 bbls. of water and acid cut water. Then started swabbing oil. Swabbed 60 bbls. of oil to stock tank. Swabbed dry. Casing still dead. SDON
- Sep. 24, 1976     Tubing pressure 150 PSIG; casing dead. Swabbed tubing, casing on slight vacuum with each run. Swab mandrel would not pass at 6500'. Tripped tubing and found a split at 3700' and 6500'. Rigged up to hydro-test tubing. Tested 38 stands; found two bad joints. SDON
- Sep. 25, 1976     Had pressure on the tubing 350 PSIG, casing dead; suspect a hole in casing above 37 stands. Blew tubing to mud pit made 25 bbls. of fluid. Found seven more bad joints. Shut down early for inclement weather.
- Sep. 28, 1976     Finished hydro testing tubing. Set Model "R" packer and swabbed tubing. Fluid level holding at 3000'. Pumped in back side and established circulation. Pulled tubing and found packer sealing rubbers damaged. SDON
- Sep. 29, 1976     Ran re-dressed Model "R" packer in the hole and set at 7154' KB. Swabbed tubing to seating nipple. Western pump tested back side and packer held 200 PSI. Pumped in 12 bbls. of 7-1/2" HCL with MR-1 and flushed with 32 bbls. of water. Rate - 3-1/2 BPM average, average pressure 3000 PSIG. S.I. one hour and swabbed back. Fluid entry 150' in 30 minutes. Some gas shows with the swab. Left well open overnight.
- Sep. 30, 1976     Swabbed well down, a little gas flowing at surface. Rigged up Western Company for fracturing. Fraced Burro Canyon with 20,000 lbs. 20/40 sand, 388 bbls. of MiniMax II treated water. At 145 bbls. into treatment tremendous pressure break back from 4500 PSIG to 3000 PSIG. No effect on back side pressure detected. ISDP - 250 PSI. SDON
- Oct. 01, 1976     Tubing and casing dead. Swabbed 120 bbls. of load. Making a little gas with the swab. SDON.
- Oct. 02, 1976     Tubing and casing dead. Swabbed 97 bbls. F.L. at 6700' , making more gas with swab. SDON.
- Oct. 04, 1976     Swabbed well down to 4200' level. Making gas on the swab. Un-seated packer pulled 3 feet and hung up. Circulated down casing and up tubing while working packer in the hole dragging 45,000 lbs. over the string weight. Made 60' when tubing parted. Part 88 stands in. Ran back with overshot and jars and caught fish. Two stands deeper than when parted. Worked string with no progress. SDON
- Oct. 05, 1976     Worked packer while circulating. Unable to move it. Rigged up Blue-Jet to cut off tubing on wire line. Unable to get smallest cutting tool past 5489' KB. SDON

- Oct. 06, 1976 Stretched tubing for deep free-point and backed off. Got out with 228 joints. Layed 22 singles on rack, stood back 206 joints in the derrick. Going to replace tubing so ran stands back in and came out laying down.
- Oct. 07, 1976 Unloaded new 2-3/8 EUE tubing, loaded old tubing. Received 234 joints of tubing ran in hole with turn-on tool and 10 drill collars with hydraulic jars and 208 joints of 2-3/8" tubing. Tagged collar and screwed in. Set off jars at 50,000 to 62,000 lbs. on weight indicator for 2-1/2 hours; could not budge packer. Tried to circulate unsuccessfully. SDON
- Oct. 08, 1976 Set off jars at 62,000 lbs. for 3-1/2 hrs. with no progress. Go International ran string shot and tagged at 7110. Two shots and tubing backed off. Felt drag resistance for two joints as we started out of the hole. Tripped out and had 6 additional joints below turn-on tool. Collar looking up on bottom of the hole. Tubing appeared to have been dragged through sand. SD until Monday.
- Oct. 11, 1976 Dotco Fishing Tool man on location. Trip in with 8 joints of wash pipe, hydraulic jars, and 10 drill collars. Circulated hole by reversing. Losing water and making progress. Returning little to the surface. Ran out of water. Water truck broke down. Picked up 12 stands and SDON.
- Oct. 12, 1976 Hauled in water, tagged sand and circulated conventionally. Washed down until bumped down on something. Circulated hole clean and tripped out. No marks indicating whether we were on the packer or not. Returned 2 bbls. of sand. SDON.
- Oct. 13, 1976 Ran 11 joints wash pipe, 10 drill collars, hydraulic jars and tubing. Tagged sand and washed down to 7284' KB. On something fairly solid, increase in pump pressure noticable. Packer is moving down hole as we circulate. Returning sand, cement, sandstone. Pulled up 10 stands and SDON.
- Oct. 14, 1976 Tagged with no fill overnight. Trip out with wash pipe. Run in with turn-on tool, drill collars, and jars. Screwed into collar and worked packer free. Trip out, lay down drill collars. SDON
- Oct. 15, 1976 Layed down wash pipe. Trip in hole with scraper and saw-tooth collar. Cleaned out 55' of fill. SD until Monday.
- Oct. 18, 1976 Trip out of hole with tubing. McCullough ran corrosion log; found hole at 350' in 5-1/2" casing. Removed BOP and tubing spool to examine casing slips. SDON.
- Oct. 19, 1976 Jim Smith, Welder, on location. Welded 5-1/2" lifting sub to casing. Attempted to stretch casing free of slips. Unable to do so at 120,000 lbs. Substructure under derrick giving way. Ran casing cutter and 2 drill collars, 23 joints of tubing to 789'. SDON.

- Oct. 20, 1976 Tried to cut casing for 2-1/2 hours. Slips on cutter set good, all string weight on cutters but no torque. Tripped out, and cutters were worn smooth, apparently faulty. Attempted to move casing; unable to do so. SDON.
- Oct. 21, 1976 Ran new casing cutter, cut casing in 3 minutes. Felt jump as casing came free. Pulled 134,000 lbs. and could not free casing from slips. Cleaned out cellar and heated casing spool. Pulled 46,000 lbs. and slips came free. Started to pull casing but tong dies were broked and dull; couldn't bite in. SDON
- Oct. 22, 1976 Came out of hole with 23 joints of casing. Found bad hole 2" wide, 3' long in one joint. Four joints show bad corrosion. Hauled in drilling mud. Ran in with drilling bit and cleaned out to 6 stands in and ran out of mud. Tripped out and SDON.
- Oct. 23, 1976 Ran Bowen casing patch and 6 stands of casing. Stacked out. Attempted to circulate casing down but water won't clean out blockage. SDON
- Oct. 24, 1976 Mixed a 180-bbl. of drilling mud and stripped on a rotating head. Circulated down 9 joints of 5-1/2" casing and tied into casing and set lead seals in the patch. Landed casing. SDON
- Oct. 25, 1976 Cut off casing, made up well head, laid down drill collars. Shut down - operator quit.
- Oct. 26, 1976 Pressure tested casing to 3000 PSIG. Held OK. Tripped in with tubing. Set bridge plug below Gallup at 6455'. Reversed drilling mud and loaded hole with oil. Spotted 12 bbls. acid in balanced column across zone to be perforated 6083'-6180' KB. Logged and perforated Gallup. SDON.
- Oct. 27, 1976 Fraced Gallup (Western Company) with 15,000 lbs. 20/40 sand, 595 bbls. of Adomite Oil. Shut In.
- Oct. 28, 1976 625 PSIG on casing. Opened well and flowing to tank. At 1:30 made 97-1/2 bbls. Left open to flow to tank.
- Oct. 29, 1976 Made 171-1/2 bbls. total; barely flowing. Killed well. Ran tubing and retrieving head.
- Oct. 30, 1976 Killed well. Circulated fill off and retrieved bridge plug. Tripped out. Had seal ring from casing patch on top of bridge plug. SDON.
- Nov. 01, 1976 Ran tubing as follows:

- |   |          |
|---|----------|
| (1) Mother Hubbard separator, 2-3/8" pup joint, |          |
| seating nipple -                                | 28.25'   |
| (2) 224 joints 2-3/8" EUE 4.7# tubing -         | 7040.32' |
| KB + 9' -                                       | 9.00'    |

Setting Depth: 7077.57' KB

Pulled off blow-out preventers and made up well head.  
SDON.

Nov. 02, 1976    Ran rods and pump, hung well on started pumping at 4:00 p.m.  
Released Big "A" Well Service.