Form 3160-5
(November 1983)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

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

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 14 1985
BUREAU OF LAND MANAGEMENT
FARMINGTON RESOURCE AREA

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

2. NAME OF OPERATOR: Mallon Oil Company

3. ADDRESS OF OPERATOR: 2750 Security Life Building, Denver, CO 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 790' FNL & 790' FEL

5. LEASE DESIGNATION AND SERIAL NO.: NM 40646

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Fisher Federal 2

9. WELL NO.: #1

10. FIELD AND POOL, OR WILDCAT: Basin Dakota-Undes. Gallup

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 2, T25N, R2W

12. COUNTY OR PARISH: Rio Arriba

13. STATE: NM

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 7648' G.L.

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.) *

SEE ATTACHED SHEETS

RECEIVED
JUN 17 1985
OIL CON. DIV.
DIST. 3

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

SIGNED Norm H. McCord TITLE Agent DATE 6-12-85

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

NMOCC

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.

5-22-85 Drilling @ 5606'. Mud wt. 9.0, Visc. 47, W.L. 8.0. 1-3/4° @ 5521.

5-23-85 Drilling @ 6028'. Mud wt. 9.0, Visc. 46, W.L. 8.0.

5-24-85 Drilling @ 6405'. Mud wt. 8.9, Visc. 45, W.L. 7.6. 3/4° @ 6023'.

5-25-85 Drilling @ 6640'. Mud wt. 8.9, Visc. 43, W.L. 8.4. 3/4° @ 6521'.

5-26-85 Drilling @ 7246'. Mud wt 8.8, Visc 54, W.L. 6.8. 3/4° @ 7022'.

5-27-85 Drilling @ 7630'. Mud wt 8.9, Visc. 74, W.L. 6.6. 1° @ 7548'.

5-28-85 Drilling @ 7816'. Mud wt 8.9, Visc 61, W.L. 6.4. ½° @ 7674'.

5-29-85 Drilling @ 8091'. Mud wt 9.0, Visc 57, W.L. 5.8.

5-30-85 Drilling @ 8237'. Mud wt 9.0+, Visc. 74, W.L. 6.4. 3/4° @ 8143'.

5-31-85 Drilling @ 8415'. Mud wt 8.9+, Visc. 78, W.L. 7.2.

6-1-85 T.D. well @ 7:15 a.m. 5/31/85. Circulate for 1½ hours. Short trip 15 stands. Circulate for 3 hours. Trip out of hole. Rig up Gearhart. Ran Induction and Neutron-Density logs. Loggers T.D. @ 8417'. Trip in hole with collars and drillpipe. Circulate 1½ hours on bottom. Lay down drillpipe. 3/4° @ 8397'.

6-2-85 Finished laying down drillpipe & collars. Ran 208 jts 5½" 17#/ft J-55 casing as follows:

DESCRIPTION	LENGTH	DEPTH
KB to landing point	11.00	0-11
1 cutoff jt 5½" 17#/ft J-55 LTC new csg	13.95	11-25
101 jts 5½" 17#/ft J-55 LTC new csg	4072.35	25-4097
1 5½" upper D.V. tool	3.10	4097-4100
56 jts 5½" 17#/ft J-55 LTC new casing	2256.85	4100-6357
1 5½" lower D.V. tool	3.10	6357-6360
50 jts 5½" 17#/ft J-55 LTC new csg	2015.35	6360-8375
1 5½" D.F.F.C.	1.63	8375-8377
1 jt 5½" 17#/ft J-55 LTC new csg	40.27	8377-8418
1 5½" cement filled guide shoe	1.40	8418-8419
	8419.00	

Upper D.V. tool @ 4097. Lower D.V. tool @ 6357. D.F.F.C. @ 8375. Centralizers @ 8399, 8296, 8215, 8135, 7893, 7772, 7651, 7530, 7409, 7288, 7167, 7046, 6398, 6318, 4138, & 4058.

Rigged up Halliburton. Tried to rotate pipe. Pipe would not rotate freely. Pumped 10 bbls spacer of water. Cemented 1st stage with 567 ft^3 (450 sx) 50-50 pozmix with 2% gel, 10% salt and ¼# flocele/sx. Had good circulation throughout job. Bumped plug to 1000 psi. Held OK. Plug down @ 2:30 p.m. 6/1/85. Dropped bomb to open lower D.V. tool. Opened tool with 1600 psi.

6-2-85 (cont.) Circulated mud for 3 hours. Pumped 7 bbls water spacer. Cemented 2nd stage with 258 ft^3 (125 sx) Class B with 2% econolite and ¼# flocele/sx tailed by 284 ft^3 (225 sx) 50-50 pozmix with 2% gel, 10% salt, ¼# flocele/sx. Good circulation throughout job. Bumped plug to 2400 psi. Held OK. Plug down @ 6:15 p.m. 6/1/85. Dropped bomb to open upper D.V. tool. Opened tool with 1600 psi. Circulated 3 hours. Pumped 5 bbls spacer of water. Cemented 3rd stage with 567 ft^3 (275 sx) Class B cement with 2% econofil and ¼# flocele/sx tailed by 126 ft^3 (100 sx) 50-50 pozmix, 2% gel, 10% salt, ¼# flocele/sx. Good circulation throughout job. Bumped plug to 2500 psi. Held OK. Plug down @ 10:00 p.m. 6/1/85. Released rig @ 11:30 p.m. 6/1/85. WOCT.

6-10-85 Move in and rig up Bayless Rig 4. Nipple up BOP. Pick up 4-3/4" bit, casing scraper, and 2-7/8" 6.5#/ft N80 EUE used tubing. Tagged cement above upper D.V. tool @ 4034'. Pressure tested casing and wellhead to 4000 psi. Held OK. Drilled 17 feet of cement. SDFN.

6-11-85 Drilled 47 feet of cement and D.V. tool @ 4098' RKB. Pressure test casing to 4000 psi. Held OK. Picked up 2-7/8" tubing. Tagged cement above lower D.V. tool @ 6273'. Drilled 86 feet of cement and D.V. tool @ 6359' RKB. Pressure tested casing to 4000 psi. Held OK. Picked up 2-7/8" tubing. Tagged D.F.F.C. (PBTD) @ 8375' RKB. SDFN.

6-12-85 Rigged up Smith Energy Services. Circulated hole clean with 1% KCL water, ½ gal/1000 clay stabilization agent, and 1 gal/1000 surfactant. Moved tubing to 7872'. Spotted 1000 gallons 7½% D.I. HCL acid over Gallup perforation interval. Trip tubing out of hole. Rigged up Petro Wireline. Ran Gamma Ray-collar locator log from PBTD of 8359' to 6900'. Perforated Gallup interval with 4" select fire perforation gun as per open hole Gamma Ray log as follows:

7066'	7164'	7275'	7316'	7406'	7487'	7568'	7792'
7078'	7175'	7278'	7329'	7423'	7495'	7575'	7805'
7112'	7185'	7282'	7336'	7435'	7507'	7580'	7828'
7122'	7203'	7291'	7345'	7439'	7521'	7595'	7845'
7125'	7221'	7295'	7351'	7454'	7533'	7613'	7855'
7136'	7254'	7302'	7357'	7459'	7538'	7671'	7866'
7153'	7272'	7311'	7372'	7467'	7543'	7682'	7872'
			7388'	7483'	7550'	7744'	
Total 62 perfs (.50" diameter)					7555'	7768'	

Break down perforations @ 1300 psi. Established rate of 20 BPM @ 1200 psi down the casing, ISIP = 600 psi. Acidized the Gallup interval with 750 gallons of 7½% D.I. weighted HCL acid containing 93 1.1 s.g. RCN ball sealers. Pumped acid @ 20 BPM @ 1050 psi. Saw 600 psi pressure increase when balls hit the perforations. Did not ball off casing. Final injection rate was 20 BPM @ 1600 psi. ISIP = 950 psi. Ran junk basket on wireline to retrieve balls. Recovered 92 balls. Fracture stimulated Gallup interval with 135,000 gallons of 25#/1000 gallon crosslinked gelled water with 1% KCL, ½ gal/1000 clay stabilizer and 1 gal/1000 surfactant carrying 180,000 lbs of 20-40 sand with radioactive tracer material as follows:

35,000 gallons pad	65 BPM @ 1800-1900 psi
40,000 gallons 1 ppg 20-40 sand	65 BPM @ 1900 psi
40,000 gallons 2 ppg 20-40 sand	65 BPM @ 1900-2200 psi
20,000 gallons 3 ppg 20-40 sand	60 BPM @ 2400-2700-2400 psi
6,885 gallons flush with KCL water	37-26 BPM* @ 1600-2800 psi

(6-12-85) cont.

*blender suction couldn't get any more rate.
ISIP = 1100 psi, 5 min = 1000 psi, 10 min = 950 psi, 15 min = 950 psi.

Average rate 60 BPM, average pressure 2000 psi, maximum pressure 2900 psi, minimum pressure 1800 psi. Total fluid to recover 3377 bbls. Shut in well to allow gel to break. SDFN.

Form 3160-4
(November 1983)
(formerly 9-330)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE* (See other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

5. LEASE DESIGNATION AND SERIAL NO.: NM 40646
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT AGREEMENT NAME:
8. FARM OR LEASE NAME: Fisher Federal 2
9. WELL NO.: #1
10. FIELD AND POOL, OR WILDCAT: ~~Basin Dakota~~-Undes. Gallup
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 2, T25N, R2W
12. COUNTY OR PARISH: Rio Arriba
13. STATE: NM

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] Other

b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEP EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] Other

2. NAME OF OPERATOR: Mallon Oil Company

3. ADDRESS OF OPERATOR: 2750 Security Life Building, Denver, CO 80202

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: 790' FNL & 790' FEL
At top prod. interval reported below: same
At total depth: same

RECEIVED
JUL 22 1985
BUREAU OF LAND MANAGEMENT
FARMINGTON RESOURCE AREA

JUL 26 1985
OIL CON. DIV.
DIST. 3

14. PERMIT NO. | DATE ISSUED

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
4-18-85	5-31-85	6-17-85	7648' G.L.	7659' KB

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
8427'	8359'		→	0-TD	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: 7066'-7872' Gallup

25. WAS DIRECTIONAL SURVEY MADE: no

26. TYPE ELECTRIC AND OTHER LOGS RUN: Induction & Neutron-Density, Gamma ray-Collar locator logs

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
9-5/8"	36#/ft	271'	12¼"	171 ft³ Class B w/2% CaCl₂	
5½"	17#/ft	8419'	7-7/8"	1st: 567 ft³ 50-50 pozmix w/2% gel; 2nd: 258 ft³ Class B w/2% econolite tailed by 284 ft³ 50-50 pozmix w/2% gel; 3rd: 567 ft³ Class B w/2% econolite tailed by 126 ft³ 50-50 pozmix	

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	7915'	

31. PERFORATION RECORD (*Interval, size and number*)
See back page

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
7066'-7872'	1000 gals 7½% D.I. HCL acid, 750 gals 7½% D.I. weighted HCL acid w/93 ball sealers 135,000 gals 25#/1000 gals crosslinked gelled water w/1% KCL, ½ gal/1000 clay stabilizer; 180,000 lbs 20-40 sand w/radioactive tracer

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
6-17-85	Swabbing	producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
6-17-85	24 hours			220	--	220	--

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
0	450		220	--	220	--

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*)

TEST WITNESSED BY: Kevin McCord

ACCEPTED FOR RECORD

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 Kevin H. McCord TITLE Agent DATE 7-22-85

FARMINGTON RESOURCE AREA

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

BY

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.

NMOCD

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.
Ojo Alamo	3484	3704	Water
Pictured Cliffs	3810	3934	Natural Gas, water
Lewis	3934	5632	Water
Mesa Verde	5632	6231	Water
Mancos	6231	7070	Water
Gallup	7060	7883	Oil, Natural Gas, Water
Greenhorn	8045	8153	Water
Dakota	8153	8407	Oil, Natural Gas, Water

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Ojo Alamo	3484	
Pictured Cliffs	3810	
Lewis	3934	
Mesaverde	5632	
Mancos	6231	
Gallup	7060	
Greenhorn	8045	
Dakota	8153	

31. 7066, 7078, 7112, 7122, 7125, 7136, 7153, 7164, 7175, 7185, 7203, 7221, 7254, 7272, 7275, 7278, 7282, 7291, 7295, 7302, 7311, 7316, 7329, 7336, 7345, 7351, 7357, 7372, 7388, 7406, 7423, 7435, 7439, 7454, 7459, 7467, 7483, 7487, 7495, 7507, 7521, 7533, 7538, 7543, 7550, 7555, 7568, 7575, 7580, 7595, 7613, 7671, 7682, 7744, 7768, 7792, 7805, 7828, 7845, 7855, 7866, 7872