

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE*
(Other instructions on re-
verse side)

Form approved.
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.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. Jic. Cont. 435	
2. NAME OF OPERATOR Mallon Oil Co. c/o KM Production Co.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Jicarilla Apache Tribe	
3. ADDRESS OF OPERATOR P.O. Box 2406, Farmington, NM 87499		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 1850' FNL & 1850' FWL		8. FARM OR LEASE NAME Jicarilla 435	
14. PERMIT NO.		9. WELL NO. G #1	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6853' RKB		10. FIELD AND POOL, OR WILDCAT Otero-Sanostee Ext. Underg. Gallup	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 9, T22N, R4W	
		12. COUNTY OR PARISH Sandoval	13. STATE NM

RECEIVED
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BUREAU OF LAND MANAGEMENT
FARMINGTON RESOURCE AREA

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input checked="" type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input checked="" type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <input 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.)*

per attached summary.

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OIL CON. DIV.
DIST. 3

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

SIGNED Kevin D. McLean TITLE Agent DATE 3/13/87

(This space for Federal or State office use)

ACCEPTED FOR RECORD

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

MAR 17 1987

FARMINGTON RESOURCE AREA

*See Instructions on Reverse Side

NMOCC

BY 6-93

3-02-87 Move in and rig up Bayless Rig 3. Nipple up wellhead and BOP. Pick up 3-7/8" bit, casing scraper, and 2-3/8" tubing. Tagged cement on top of DV tool at 4378' RKB. SDFN.

3-03-87 to 3-04-87 Shut down doing other work.

3-05-87 Drilled 24 ft. of cement and DV tool at 4402' RKB. Picked up remaining tubing to PBTD of 5934' RKB. Rigged up Western Company. Pressure tested casing and wellhead to 3500 psi; held okay. Circulated hole clean with 1% KCL water. Moved tubing to 5836' and spotted 250 gallons of 7-1/2% DI HCL acid across perforation interval. Tripped tubing out of hole. SDFN.

3-06-87 Rigged up Blue Jet. Ran GR-CLL from PBTD of 5910 to 4300 ft. Perforated lower Gallup interval with 3-1/8" casing gun and 4 JSPF as follows:

5824-5836 ft. 12' 48 holes (.34" diameter)

Rigged up Western Company. Broke down perforations; immediately established an injection rate of 19.5 BPM @ 2600 psi. ISIP=1800 psi. Acidized the lower Gallup with 250 gallons of 7-1/2% DI weighted HCL acid containing 72 l.l s.g. RCN ball sealers, 19 BPM @ 2600 psi. Saw some ball action. Balled off casing to 3500 psi. Ran junk basket to recover ball sealers. Recovered 72 ball sealers. Fracture stimulated lower Gallup with 14,033 gallons of 20#/1000 gal. crosslinked gelled water containing 19,600 lbs. of 20/40 sand as follows:

5000 gal. pad	30 BPM @ 3200 psi
2500 gal. 1 ppg 20/40 sand	32 BPM @ 3200 psi
2500 gal. 2 ppg 20/40 sand	35 BPM @ 3200 psi
4033 gal. 3 ppg 20/40 sand	35 BPM @ 3200-3500 psi*

Well screened out at this point, total sand in formation is 9600 lbs., total sand in casing 10,000 lbs. (1070 ft. of sand, top of sand at approximately 4865 ft.). All fluid contained 1% KCL water, 1/2 gal./1000 clay stabilizer and 1 gal./1000 surfactant. ISIP=3500 psi, 5 min.=1400 psi, 10 min.=1300 psi, 15 min.=100 psi. Average rate 32 BPM, average pressure 3200 psi, maximum pressure 3500 psi, minimum pressure 3200 psi. Total load fluid to recover is 336 bbls. Shut in well overnight to allow fracture to heal and gel to break. SDFN.

3-07-87 Overnight shutin pressure was 150 psi. Well flowed for 35 minutes. Tripped in hole with sawtooth collar on tubing. Tagged sand fill at 3978 ft. RKB. Circulated 910 ft. of sand bridge and fell through at 4788' RKB. Tripped tubing in hole and tagged sand fill at 5821' RKB. Circulated 113 ft. of sand fill to PBTD of 5934 ft. (total sand circulated from hole is 1023 ft., or 9550 lbs.). Tripped tubing out of hole. SDFN.

3-08-87 Rigged up Blue Jet. Set retrievable bridge plug on wireline at 5750' RKB. Pressure tested plug to 3500 psi; held okay. Tripped in hole with tubing to 5372' RKB. Dropped 5 gallons of sand on top of bridge plug. Spotted 750 gal. of 7-1/2% DI HCL acid across perforation interval. Tripped tubing out of hole. Perforated upper Gallup interval with 3-1/8" select fire casing gun as follows:

4684	4799	4885	4958	5016	5106	5162	5232	5264	5331	5345
4735	4811	4913	4973	5029	5124	5167	5234	5285	5333	5350
4752	4836	4928	4989	5031	5141	5175	5242	5290	5335	5352
4765	4847	4943	4998	5033	5143	5205	5260	5307	5337	5364
4775	4875	4950	5011	5099	5145	5209	5262	5323	5339	5372

Total 55 perforations (.34" diameter)

Broke down perforations at 1500 psi. Established injection rate into perforations down casing of 49 BPM @ 2500 psi, ISIP=500 psi. Acidized upper Gallup interval with 750 gallons of 7-1/2% DI HCL weighted acid containing 83 l.l s.g. RCN ball sealers - 34 BPM @ 2200 psi. Saw good pressure breaks due to ball sealers. Did not balloff. Final injection rate of 16 BPM @ 3200 psi, ISIP=800 psi. Ran junk basket to retrieve ball sealers - recovered 75 balls. Fracture stimulated upper Gallup interval with 97,000 gallons of 20#/1000 gal. crosslinked gelled water containing 141,000# of 20/40 sand and 75 MC of RA sand as follows:

20,000 gal. pad	60 BPM @ 2700 psi
25,000 gal. 1 ppg 20/40 sand	60 BPM @ 2600-2550 psi
40,000 gal. 2 ppg 20/40 sand	60 BPM @ 2600-2650 psi *
12,000 gal. 3 ppg 20/40 sand	60 BPM @ 2600-2800 psi**
3,071 gal. flush	57 BPM @ 2600 psi

ISIP = 500 psi; 5 min. = 400 psi; 10 min. = 400 psi; 15 min. = 390 psi.

All water contained 1% KCL, 1/2 gal./1000 clay stabilizer, and 1 gal./1000 surfactant. Average rate 60 BPM; average pressure 2600 psi; maximum pressure 3100 psi; minimum pressure 1600 psi. Total load fluid to recover is 2505 bbls. Shut well in overnight to allow fracture to heal and gel to break. SDFN.

* - Well had 1000 psi pressure drop (2600 psi to 1600 psi) starting at 6 minutes into 2 ppg stage and lasting for 2 minutes, then returned to 2600 psi treating pressure.

** - Stopped 3 ppg stage short by 3000 gallons - ran short of water in one tank - sucking air.