

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIAL ATB*
(Other instructions on FD-302)
Form 3160-5

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

SUNDRY NOTICES AND REPORTS ON WELLS RECEIVED

(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"/>		JAN 11 '88	
2. NAME OF OPERATOR Mallon Oil Company		O. C. D.	
3. ADDRESS OF OPERATOR 1099 18th Street, Suite 2750, Denver, CO 80202		ARTESIA, OFFICE	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 760' FNL, 660' FEL (NE, NE), Sec. 28		5. WELL NO. #13	
14. PERMIT NO.		15. ELEVATIONS (Show whether DF, HT, OR, etc.) 2898.4' KB	
16. PERMIT NO.		17. COUNTY OR PARISH Eddy	
16. PERMIT NO.		18. STATE NM	

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"/>	WATER SHUT-OFF	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	FRACTURE TREATMENT	<input checked="" type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	SHOOTING OR ACIDIZING	<input checked="" type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	(Other) Perforating	<input checked="" 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.)

11-16-87 Drill out stage tool at 3025'.

11-17-87 Perforate Williamson Ss. 4925'-48', 4892'-94', 4885'-88', 4876'-81'.

11-19-87 Acidize above perforations with 2000 gal 15% NE-FE acid, with 140 perf balls.

11-21-87 Frac above perfs with 56,000 gallons gelled water, 144,000 pounds sand.

(See attached report)

ACCEPTED FOR RECORD

DEC 29 1987

SJS

CARLISBACH, NEW MEXICO

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

SIGNED

John H. Cox, Jr.

TITLE

Engineer

DATE

12-16-87

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

MALLON OIL COMPANY

1099 18th Street, Suite 2750, Denver, Colorado 80202
(303) 293-2333

MALLON OIL COMPANY

Amoco Federal #13
760' FNL & 660' FEL of Section 28
Township 26 South, Range 29 East
Eddy County, New Mexico

COMPLETION REPORT

- 11-04-87 Logging - Move drill pipe and collars off of racks, move casing on - Clean and strap casing, change rams - Run in hole with 5 1/2", 17#/ft. LT&C, tested to 7100 psi and drifted, used casing, 127 joints, casing shoe @ 5086.5', float insert @ 5065', stage tool @ 3025'. - Circulate - Pump 10 Bbl mud flush, 5 Bbl water spacer, 280 sx Dowell-Schlumberger self-stress + 10% salt + 10% Gypsum + 1/4#/sk celloflake, displace with 67 Bbl mud, 50 Bbl water - Open stage tool, Circulate 5 hours - Pump 10 Bbl water, Pump 200 sx 65/35 Pozmix + 10% salt + 1/4#/sk cellophane flake, displace with 70 Bbl fresh water - Close stage tool - Rig down BOP. Daily cost: \$38,041.00, Cumulative cost: \$38,041.00.
- 11-05-87- Waiting on completion tools.
11-15-87
- 11-16-87 Wait on Sunrise Supply delivery - Install tubing head, BOP, Rig up Petco reverse unit - TIH with 4 3/4" Bit, scraper, 4 collars and 2 7/8" tubing - Set down at 3020, drill out cement and stage tool - TIH to PBTD @ 5065', reverse circulate hole with produced water. Daily cost: \$18,606.00, Cumulative cost: \$56,647.00.
- 11-17-87 TOH with 2 7/8" tubing, collars, scraper and bit, release Petco reverse unit - RU Schlumberger, could not get CCL-NGT-Temperature tool combo to work - Removed temp tool and ran NGT-CCL correlation log - Perforate 4925-48', 4892-94', 4885-88', 4876-81' two shots/ft. - RD Schlumberger - PU Baker 5 1/2" Model "C" Retrievable Bridge Plug and 5 1/2" SAP Tool. TIH to above perforations @ 4800' SDFN. Daily cost: \$1,681.00, Cumulative cost: \$58,328.00.

- 11-18-87 RIH with Mandrel Plug on sand line, would not shake loose, dropped plug from top - Set packer at 4797' (blank pipe) and pressure test - Release packer load hole, drop injection control valve - valve would not go down easily, had to push down with sinker bars and sand line - Pumped on ICV couldn't get fluid through @ 2000 psi - Pulled ICV, ran 2nd valve - still could not pump through - Attempted fishing mandrel plug could not recover with sand line overshot, pulled wet string. Found soft, black, granular scale in packer (2'), covering ports and fishing neck on mandrel plug. Material was not acid soluble) - TIH with open ended 2 7/8" tubing, to approx. 4950' displace hole with 140 Bbl, 2% KCL water, returns very black at first cleaning up by end of circulating - TOH with about 2 7/8" tubing - SIFN. Daily cost: \$1,834.00, Cumulative cost: \$60,162.00.
- 11-19-87 Finish TOH with tubing - FU Baker Model "C" Retrievable Bridge Plug (5 1/2"), Baker Model "C" 5 1/2" fullbore packer and TIH - Set RBP @ 5000', spot 2.5 Bbl acid at 4961' - Set packer at 4774', pressuer annulus to 500 psi - Pump remaining 45.5 Bbl 15% HCL with NE-FE additives, dropping 140', 1.3 SG., RCN ball sealers - Balled out at 2400 psi with 15 Bbl flush in. Surge balls off, allow to settle and finish job. AIR 3.5 BPM, AIP 1100, MIP 2500, Final TP 1300. ISIP 540, 5 min. 500, 10 min. 450, 15 min. 440 displaced with fresh water with 2% KCL, TLTR 115 Bbl - Open well to pit flowed approx. 65 Bbl - FU Swab, swab 78 Bbl, 13 runs, started cutting oil on 6th run, 40% oil cut by last run - SIFN. Daily cost: \$4,400.00, Cumulative cost: \$64,562.00.
- 11-20-87 800 psi, THP. Open well to kill truck tank blew gas then flowed 11 Bbl clean oil in 28 minutes. Pump 25 Bbl 9.85 PPG produced water down tubing to kill, well still flowing back slowly. Equalize and release packer and moved to 4929' (4' into L. Williamson perfs). Pulled six swab runs approx. 45% oil on final run. 5.8 Bbl/pull. Annulus dribbling fluid through swabs. Released, re-set pkr at 4897' pulled four swab pulls no flow or vacuum on annulus. 5.8 Bbl/pull 45-50% oil. Set RBP @ 4910', packer at 4868'. Swab upper Williamson perfs. Swab to SN on 4th pull wait 20 minutes pulled 5th swab with no recovery TOOH with RBP, pkr and tbg. SIFN. Daily cost: \$7,450.00, Cumulative cost: \$72,012.00.

11-21-87 300 psi CHP; open well to pit, flowed 1 hour before liquid slugs stopped. Rigged up Schlumberger, ran temperature base log. Schlumberger tools (3 7/8" O.D.) would not pass through Dowell-Schlumberger frac head (3" I.D.), began searching for larger frac head. Rigged up 5 1/2" ID Valve, spool and companion flange. Fraced well with 56,000 gallons, 30#/1000 gal. cross linked gel, with 144,000 pounds sand as follows: 8300 gal pad, 3300 gal with 12/20 @ 1 PPG, 4000 gal with 12/20 @ 2 PPG, 5000 gal with 12/20 @ 3 PPG, 6000 gal. with 12/20 @ 4 PPG, 6600 gal. with 8/16 @ 5 PPG 4500 Gal Pad with 50 perf balls 1785 gal. with 12/20 @ 2 PPG, 2135 gal. with 12/20 @ 3 PPG, 2678 gal w/12/20 @ 4 PPG, 3220 gal w/12/20 @ 5 PPG, 3570 gal. with 8/16 @ 6 PPG, flushed with 4751 gal. uncomplexed gel. Tagged fluid before balls with 20 mci Irridium, tagged frac fluid after balls with 10 mci Scandium. AIR = 30 BPM, Max CHP = 1203 psi, final CHP = 1015 psi, Avg CHP = 787 psi, ISIP = 694 psi, 5 min SIP = 621 psi, 10 min SIP = 587 psi, 15 min. SIP = 571 psi. Rigged up Schlumberger lubricator and logged after frac survey with NGT, and temperature. Repeat passes with temperature tool indicated frac fluid entry from about 4780' to 4950 greatest mass in lower Williamson Sd. 4925-50'. NGT showed both Scandium and Irridium entering upper and lower perfs with slightly higher Scandium (second tracer) in Upper perfs. Tracer detected as high as 4700'. Some tracer may be inside casing. Daily cost: \$33,650.00, Cumulative cost: \$105,662.00.

11-22-87 Finish after frac survey, rig up wellhead for flowback, lay flowlines to tank. SICP @ 12:00 460 psi (SI 17 hrs since frac), open to tanks on 16/64" choke, FCP 440 psi, recovered 68 Bbl frac water by midnight (390 psi CHP). Daily cost: \$650.00, Cumulative cost: \$106,312.00.

11-23-87 Flowing frac load to frac tanks. Cumulative recovery by midnight 275 Bbl flowing at 8 BPH with 270 psi CHP on 16/64" choke, 1060 BLTR. Daily cost: \$400.00, Cumulative cost: 106,712.00.

11-24-87 Flowing frac load to frac tanks Cumulative recovery by 10:30 pm, 692 Bbl frac load, flowing @ 13 BPH with 80 psi CHP on 32/64" choke, 639 BLTR. Daily cost: \$150.00, Cumulative cost: \$106,862.00.

11-25-87 Flowing frac load, recovered 46 BO, 183 BW 24 HR, 110 psi CHP. 393 BLTR. Daily cost: \$150.00, Cumulative cost: \$107,012.00.

11-26-87 Flowing frac load, recovered 88 BO, 78 BW 24 Hr, 110 psi CHP. 315 BLTR. Daily cost: \$150.00, Cumulative cost: 107,162.00.