

**ME-TEX OIL & GAS, INC.**  
**DAILY OPERATION ACTIVITY**  
**J. Cooper #1**

**LOCATION: 560' FNL & 1,864' FEL.**  
**Section 3, T20S - R37E,**  
**Lea County, New Mexico**

**ELEVATION: K.B. - 3,574' (13' above G.L.)**

Location staked & prepared, settlement made with  
land-surface owner, J. Cooper.

- 12/1/97** Capstar Drilling Co. Rig #8 move Rig & spud 4:30 pm  
11/30/97; Drlg. 978' rb. & ANHY. (18'/Hr.). Mud:  
9.6#/gal. - vis. 33 secs. - pH 8, progress 978', dev.  
 $\frac{1}{2}^{\circ}$  at 500', Bit #1 12 $\frac{1}{4}$ " Varel 527-C - made 978' in  
13 $\frac{1}{2}$  Hrs., pump psr. 800 p.s.i. - 80 R.P.M. - 40,000#  
bit wt.; 13 $\frac{1}{2}$  hrs. drilling -  $\frac{1}{2}$  hr. dev. -  $\frac{1}{4}$  hr.  
repairs. Haul 7 loads fresh water, mix: 10 sxs.  
paper. 8 5/8" csg. on location from U.P. & S.
- 12/2/97** Depth 1,371' Rng. 8 5/8" surface casing, Mud: 9.6  
#/gal. - vis. 32 secs. - pH 8, dev.  $\frac{1}{2}^{\circ}$  at 1000' -  $\frac{1}{4}^{\circ}$  at  
1,371', Bit #1 made 1,371' in 31 $\frac{1}{4}$  hrs., pump psr. 900  
psi. - 70 RPM - 40,000 # bit wt.; 17 3/4 hrs. Drlg. -  
3/4 hr. circ. - 2 $\frac{1}{2}$  hrs. T.O.H. - 4 $\frac{1}{2}$  hrs. Rig & Rung. 8  
5/8" csg., haul 10 loads Brine wtr., Mix: 8 sxs. paper.
- 12/3/97** Drlg. 1,473' salt & Anhy (15"/ft.), Mud: 10#/gal. -  
Vis. 29 sec., pH 9.5, Prog. 102', bit #2 7-7/8" walker  
- McDonald 53-C, made 102' in 5 $\frac{1}{2}$  hrs., pump psr. - 850  
psi. - 60 R.P.M. - 35,000 # wt. on bit; 1 $\frac{1}{2}$  hr. Rng. 8-  
5/8" csg. -  $\frac{1}{2}$  hr. Circ. - 1 $\frac{1}{2}$  hr. Cmtg. - 4 $\frac{1}{2}$  hrs. W.O.C.  
- 5 $\frac{1}{2}$  hrs. Nipple-up -  $\frac{1}{2}$  hr. Test B.O.P. -  $\frac{1}{2}$  hr. Change  
rams - 1 hr. T.I.H. with bit #2 -  $\frac{1}{2}$  hr test 8-5/8" csg.  
1200 psi. - ok - 1 $\frac{1}{2}$  hrs. Drill plug & cmt. - 5 $\frac{1}{2}$  hrs.  
Drilling; haul 6 loads fresh wtr.  
CASING DATA: 30 jts. 23#/ft. J-55. New from U.P. & S.  
Total 1,357' set at 1,371'.  
CEMENTING: 525 sxs. Class "C" cmt. With 4% gel - 2%  
CACL<sub>2</sub> -  $\frac{1}{4}$  #/sx. Cello-flake, tail-in 200 sxs. Class "C"  
cmt. With 2% CACL<sub>2</sub>, circ. to surface 196 sxs., plug  
down 8:40 AM 12/2/97.

- 12/4/97** Drlg. 2,656' salt & Anhy. (28'/hr.), mud: 10#/gal. Wt. - vis. 29 secs. - pH 9.5, Prog. - 1,183', Bit #2 made 1,285' in 27½ hrs., ½° @ 1,800' - ¾° @ 2,050' - ¾° @ 2,300' - 1° @ 2,550', pump psr. - 1,050 psi. - 60 RPM - Bit wt. 10/35,000#; Drlg. 22 hrs. - 2 hrs. Dev. & S.R., Haul 2 loads Brine, Mix: 6 sxs. paper - 3 sxs. caustic.
- 12/5/97** Drlg. 3,090' lime & sand (19'/hr.), Mud: 19#/gal. - vis. 29 secs. - pH 10.5, prog. 434', ¼° dev. @ 2,800', bit #2 made 1,719' in 51 hrs., pump psr. 1,050 psi. - 60 RPM - 38,000 # wt. on bit; 23½ hrs. drlg. - ½ hr. dev., haul 3 loads Brine - Mix 4 sxs. Caustic - 3 paper.
- 12/6/97** Drlg. 3,545' Dolo & sand. (19'/hr.), mud: 10#/gal. Wt. - vis. 29 secs. - pH 9, Prog. 455', 1° dev. @ 3,300', Bit #2. 1,893' in 76½ hrs., pump psr. 1100 p.s.i. - 60 RPM - 38,000# bit wt.; Drlg. 23½ hrs. - ½ hr. dev., haul 2 loads brine, mix: 5 sxs. Paper - 3 sxs. Caustic.
- 12/7/97** Drlg. 3,866' Dolo. (14'/hr.), Mud: wt. 10.1#/gal. - vis. 31 secs. - W.L. 16 cc's. - pH 10, Prog. 312', Dev. ¾° @ 3,800', Bit #2 2,205' in 99-¾ hrs., pump psr. 1,125 psi. - RPM 60 - Bit wt. 38,000#; Drlg. 23½ hrs. - Dev. & service rig ¾ hrs., Mix: 3 sxs. Caustic - 25 sxs. Starch - 5 sxs. Paper.
- 12/8/97** Drlg. 4,326' Dolo. (20'/hr.), mud: wt. 10#/gal. - vis. 29 secs. - pH 9.5, Prog. 460', 1¼° dev. @ 4,300', Bit #2 2,955' in 121½ hrs., pump psr. 1100# - RPM 60 - Bit wt. 38,000#; 23½ hr. Drlg. - ½ hr. Dev., mix: 6 sxs. Paper - 3 sxs. Caustic.
- 12/9/97** Drlg. 4,703' Dolo. (15'/hr.), mud: wt. 10#/gal. - vis. 29 secs. - pH 9, Prog. 327', Bit #2 3,332 in 145¼ hrs., pump psr. 1,100 psi. - 60 RPM - 10 to 40,000 # Bit wt.; Drlg. 24 hrs., mix: 3 sxs. Caustic - 4 sxs. Paper (slt. seepage).

12/10/97 Drlg. 4,910' Dolo. (15'/hr.), mud: wt. 10#/gal. - vis. 29 secs. - pH 9.5, Prog. 207', 1¼° Dev. @ 4800', Bit #2 made 3,420' in 151-¾ hrs. - Bit #3 7-7/8" Varel 627-C made 119' in 7½ hrs., pump psr. 1,150 psi. - 60 RPM - 10 to 40,000# Bit wt.; Drlg. 14½ hrs. - Dev. ½ hr. - trip for hole in D.P. & Bit #3 9½ hrs., Haul 3 loads Brine, Mix: 4 sxs. Caustic - 4 sxs. Paper.

12/11/97 Drlg. 5325' Dolo. (17'/hr), Mud: 10#/gal. - vis. 29 secs. - pH 9.5, Prog. - 415', Bit #3 made 534' in 31½ hrs., dev. 1¼° @ 5300', pump psr. 1100 psi. - 60 RPM - Bit wt. 10/40,000#; Drlg. 23½ hrs. - Dev. ½ hr., Haul 2 loads Brine - mix 5 sxs. Caustic - 6 sxs. Paper.

12/12/97 Drlg. 5,707' Dolo. (16'/hr.), mud: wt. 10#/gal. - vis. 29 secs. - pH 10, Prog. 380', Bit #3 made 914' in 55 hrs., pump psr. 1,100 psi. - 60 RPM - Bit wt. 40,000#. Drlg. 24 hrs; Haul 1 load Brine - mix: 4 sxs. Caustic - 4 sxs. Paper.

12/13/97 Drlg. 6,048' Dolo. (15'/hr.), mud: 10#/gal. - vis. 29 secs. - pH 10, Prog. 343', 1° @ 5,500', Bit #3 made 1,157' in 78½ hrs., pump psr. 1,100 psi. - 60 RPM - 40,000 # Bit wt.; drlg. 23½ hrs. - Dev. ½ hrs., haul 7 loads Brine - 1 load fresh, mix: 8 sxs. Caustic - 9 sxs. Paper.

12/14/97 Drlg. 6,380' Dolo. (14'/hr.), mud: 10#/gal. - vis. 29 secs. - pH 9.5, Prog. 332', 1¼° @ 6,300', Bit #3 made 1,589' in 102 hrs., pump psr. 1,100 psi. - 55 RPM - 40,000# Bit wt.; Drlg. 23½ hrs. - Dev. ½ hr., haul 6 loads Brine, mix: 28 sxs. Paper - 7 sxs. Caustic.

12/15/97 Depth 6,683' Trip for hole in D.P., mud: 10#/gal. - vis. 29 secs. - pH 9.5, Prog. 303', Bit #3 made 1,892' in 124 hrs., pump psr. 1,100 psi. - 60 RPM - 40,000 # Bit wt.; Drlg. 22 hrs. - Trip 2 hrs., mix: 10 sxs. Paper - 5 sxs. Caustic.

12/16/97 Drlg. 6903' Dolo. (12'/hr.), Mud: 10#/gal. - vis. 29 secs. - pH 9.5, prog. 220', Dev.  $1\frac{1}{2}^{\circ}$  @ 6800', Bit #3 made 2,112' in 141 $\frac{1}{2}$ , pump psr. 1,100 psi. - RPM 60 - bit wt. 40,000#; Drlg. 17 $\frac{1}{2}$  hrs. -  $\frac{1}{2}$  hr. Dev. - 6 hrs. T.F. hole in D.P., Haul 6 loads Brine - mix: 11 sxs. Paper - 4 sxs. Caustic.

12/17/97 T.D. 7100' Dolo. Trip for csg., mud: wt. 10#/gal. - vis. 29 secs. - pH 9.5, Prog. 197', Bit #3 made 2,309' in 160 hrs., pump psr. 1,100 psi., - 60 RPM - 40,000# Bit wt.; Drlg. 18 $\frac{1}{2}$  hrs. - Circ. 2 $\frac{1}{2}$  hrs., Trip 3 hrs., Haul 3 loads brine, 2 loads fresh wtr., mix: 5 sxs. Paper - 5 sxs. Caustic - 5 gals. Poly-plus for hole sweep.

12/18/97 T.D. 7100' Dolo. W.O.C. & moving Rig; 3 $\frac{1}{2}$  hrs. Trip out for casing - 1 hr. R.R. - 4 $\frac{1}{2}$  hrs., Rec. Rack - strap & prepare 5 $\frac{1}{2}$ " csg. - 7 hrs. Rig & Run csg. - 1 hr. Circ. - 2 hrs. Rig Dow/Sch. & cmtg. - 4 hrs. Set slips - cut-off - Jet Pits & nipple down, Rig Release 6:00 A.M. 12/18/97.

Csg. Data: 5 $\frac{1}{2}$ ", 15 $\frac{1}{2}$ #/ft. 8<sup>rd</sup>, J-55 insp. Drift & tested, used from Double "R" Pipe, Total 208 Jts. - 7,179.27' set at 7,106', P.B.T.D. 7,072', 2 Jts. Out.

Cement Data: Dow/Sch. Cmted. With 800 sxs. LEAD class "C", 16% Gel - 3% salt - .3% D79 - .3% D65 - .25% PPS D29; tail-in with 400 sxs. "C" cmt., .2% D65 - .5% D112 - .3% KCL. - .2% D46, Circ. To surface 104 sxs., Plug down 1:50 A.M.

**FINAL DRILLING REPORT: COMPLETION TO FOLLOW**

**ME-TEX OIL & GAS, INC.**  
**DAILY OPERATION ACTIVITY**  
**J. COOPER #1**

**COMPLETION REPORT:**

- 12/29/97** Cleared location for completion, install Tbg. Head, set anchors, move in Schlumberger cased hole equip. (Blue Streak) with mast pole; Rig & RIH to P.B.T.D. 7,040' & Run Compensated Neutron E. Log, Rig Sch. Down & Release; Log to be analyzed for perforation determination.
- 12/31/97** Move-in & Rig Joe's Well Service Unit, Eloy Ramirez - operator, install B.O.P., S.D. for Holiday.
- 1/05/98** Receive & Rack 270 Jts. 2-3/8" Tbg., 7,039' from Double "R" Pipe Co. & 1,392' from Me-Tex, Total 8,431'; R.I.H. with 4-3/4" bit, 226 Jts. 2-3/8" Tbg. & Tag P.B.T.D. at 7,065', Rig Dow.Sch., tested 5 1/2" Csg. To 500 psi., o.k., Displ. 5 1/2" Csg. with 160 bbls. 2% Kcl. Wtr., pull to 7,002' & spot 2 bbls. 15% Ne-Fe Hcl. Acid across perf. interval 7,002' to 6,918', Rig down D/S & P.O.H.; Rig Sch. Cased Hole, R.I.H. with Hyper-Jet II S.C.G., 2 J.S.P.F., 180° phase & perforated Abo at following intervals: 6995' - 96' - 97' - 98' & 99' (10 holes), Rig Down Sch., R.I.H. with 5 1/2" arrow - set 10-K Pkr. To 6,600', S.I. & S.D.F.N. at 5:30 p.m., prep. Acidize & test perfs.
- 1/06/98** S.I.P. - vacuum, F.R.I.H. with packer on 2-3/8" Tbg. & set at 6,905, Rig Dow.-Sch., pressured csg. To 800 psi., formation breaking psr. On spot acid 2,700 psi., pumped 5 bbls. at 36/min. rate at 4,460 psi. T.P., I.S.I.P. - 3,500 p.s.i.; swbed. Well down with good show of gas on 4th S.R.; Acidized Abo perfs. 6,995' - 99' with 4,000 gals. 15% NE-FE Hcl. Anti-Sludge acid with ball sealers, avg. Rate 3.4 to 6.93 B/min., T.P. - 2,075 to 3,850 p.s.i., I.S.I.P. - instant vacuum, balled out with 12 balls on, max. Psr. 6000 psi., surged balls off; Rig swb. & swb. to pit, 1 S.R. & well kicked off flowing, flowed acid & natural gas, S.I., nipple well-head, S.I.T.P. - 1,700 psi., flowed on 29/64" choke waiting on stack-pack for testing; flowed 1 hr. Est. 2,000 - 3,000 MCFGPD rate with show condensate, S.I. and shut down for the night at 5:30 p.m., prep. To test & connect to Warren gas sales line & finish fomation clean-up.

- 1/07/98** S.I.T.P. - 1,900 p.s.i. in 14 Hrs., flwd. Thru stack-pack for 8 hrs. on 12/64 choke, F.T.P. 1,900 - 1500 p.s.i., rate 1,198 to 850 MCFGPD with small amount condensate; tied into Warren Gas sales pipeline at 5:00 p.m., 16/64" choke, F.T.P. - 1400 p.s.i., rate 2,500 MCFGPD, will continue producing down sales line for formation clean-up & productivity determination.
- 1/08/98** Flwg. 16/64" choke, F.T.P. - 1000 p.s.i., Rate 1,300 MCFGPD with condensate, opened to 20/64" choke to submit potential test to N.M.O.C.D. in order for Warren to buy and Transport the gas production, the well will be futher evaluated.
- Intial Potential Flowing: 20/64" choke, F.T.P.- 840 p.s.i., rate 2,138 MCFGPD and 15 bbls. Condensat
- 02/02/98** Continued Completion: Abandoning Abo zone, perforating, treat & test Lower Drinkard zone 6,735' to 6,838'. Move in & Rig W.S. unit, set 500 bbl. Tank & prep., commence work tomorrow. Walton Construction moving setting tanks & production vessels, bldg. Battery.
- 02/03/98** Rig kill truck, close in well, pump 25 bbls. 2% Kcl wtr. down 2-3/8" Tbg. to kill well, nipple down head & install B.O.P., pumped additional 25 bbls. opened Pkr. by-pass, stabilize, unseat Pkr. & P.O.H. with 2-3/8" Tbg. & Pkr.; Rig Sch. cased hole equip., RIH with 5½" C.I.B.P. & set at 6,980', Rig Down Sch.; RIH with 2-3/8" Tbg. & tag C.I.B.P., Rig Dow/Sch. & displ. 5½" csg. with 164 bbls. 2% Kcl. Wtr., test C.I.B.P. with 1,000 psi. - ok, pull 2-3/8" tbg. to 6,840' & spot 3 bbls. 15% Ne-Fe Hcl acid 6,840' to 6,714' P.O.H. with 2-3/8" Tbg.; Rig Sch., RIH with 4" Hogs, Gun & perf. Lower Drinkard with 2 JSPF, 180° phase at following intervals: 6,735'-40'-43'-47'-57'-66'-72'-76'-79'-83'-85'-93'-99'-6,803'-06'-11'-27'-31'-35' & 38' (40 Shots), Rig Down Sch., R.I.H. with 5½" Arrow - Set 10-K Pkr., on 7 Stds. 2-3/8" Tbg., S.I. and shut down for the night at 8:30 p.m., prep acid stumulate & test perfs.

**02/04/98** S.I.T.P. - vacuum, F.R.I.H. with pkr. & set at 6,624', Rig Dow/Sch., prsed. C.P. to 800 p.s.i., formation broken, pumped 5 bbls. at 3 bbl./min. Rate, T.P. 3,975' p.s.i., I.S.I.P. 1,700 p.s.i. (660# in 2 mins.), commence swbg., F.L. 100' F.S., swbed. well down to 5,500' F.S., recovered est. 35 bbls. Load with good gas show, no oil; Acidized Lower Drinkard perfs. 6,735' to 6,838' with 4,000 gals. 15% Ne-Fe Hcl A.-S. Acid with ball sealers, avg. Rate 3 bbls./min., T.P.-3,300 p.s.i., good ball action & formation breaks, no ball out, I.S.I.P.-2,300 p.s.i., 5 min.-670 p.s.i., 10 min.-349 p.s.i., 15 min.-176 p.s.i., Total load 139 bbls; Rig & comm. Swbg., 7 swab runs, fluid level 4,100' F.S. & well kicked off flwg. Gas, acid gas & load water with 5% oil cut; spray blowing across W.S.U. & Location, S.I. and shut down for the night at 4:30 p.m., prep. Re-acidize with 10,000 gals. Retarded gelled acid tomorrow.

**02/05/98** S.I.T.P. - 1820 p.s.i. in 14½ hrs., open well & flwd. for 3 hrs. to clean up, 34/64" choke - F.T.P. - 300 p.s.i. recovering gas, load & acid wtr. with est. 5% oil; Rig Dow/Sch., killed well with 30 bbls. 2% Kcl wtr. to install frac valve, re-acidized Lower Drinkard perfs. with 10,000 gals. 15% Ne-Fe Hcl Gelled Retarded Acid, avg. Rate 15 bbl./min., T.P. - 6,500 p.s.i., ISIP - 2,300 p.s.i. - 5 min.-590 psi., 10 min.-302 psi., 15 min.-137 psi. to vacuum, total load 410 bbls., S.I. for 2 hrs., open well, on vac. & comm. Swbg., F.L. 800' F.S., 3 swab runs & well kicked off flwg., flwd. well thru stack-pac; at 4:30 p.m. on 32/64" choke, F.T.P. 750 psi., Rate 2,650 mcfgas, 20 bbls. Load & acid wtr. with 2% oil cut; Gas down Warren sales line, will cont. Flwg. for formation clean-up. Walton Constr. Bldg. Battery: two 500 bbls. Stock tanks, separator & Heater-Treater.

**02/06/98** (7:00 a.m.) Flowing 4,319 mcfg., 32/64" choke, F.T.P. - 800 p.s.i., 265 bbls. fluid est. 120 bbls. Oil & 145 bbls. Load & acid wtr. in 16½ hrs. producing thru test stack-pac with two 500 bbl. Tanks for fluid storage & sales until battery completed. Gas to Warren Sales line.

02/07/98 Flwg. 4,234 MCFGPD, 32/64" choke, FTP - 720 p.s.i., 127  
bbls. total fluid est. 100 bbls. oil & 27 bbls. load  
water. in 16 hrs. (B.P.-135 p.s.i.)

02/08/98 Flwd. 3,934 MCFGPD, 32/64" choke, FTP - 700 p.s.i., 150  
bbls. oil and 12 bbls. load water, sold 195 bbls. oil.

02/09/98 Completion: Lower Drinkard 6,735'-6,838', I.P.F. 3,657  
MCFGPD, 32/64" choke, F.T.P.-690 p.s.i., 145 bbls. oil,  
10 bbls. load wtr. in 24 hrs.

Will complete btry. this week.

FINAL REPORT



