

DAILY DRILLING REPORT

Jicarilla "M" #1

10/12/76

MI Cactus Rig #5.

10/13/76

Mixing mud, prep to spud.

10/14/76

(1) 300 drlg sd 15" hole, NND.

Spud.

Cactus Rig #5 spud 15" hole @ 8:30 PM, 10/13/76.

Cost: \$11M

10/15/76

(2) 325 drlg 9-7/8 hole sd & sh, 1⁰ 325. 8.7-32-9.

Ran 8 jts 10-3/4" 32.75 J-55 csg set on bottom @
325, BJ cmt w/400 sx B + 2% CaCl, circ 70 sx, PD
10:45 AM, 10/14/76.

Cost: \$14M

10/16/76

(3) 1468 drlg sd & sh, 9-7/8 hole, 1-1/4⁰ 896.

8.8-49-7.8.

Cost: \$25M

10/17/76

(4) 2222 drlg sd & sh, 9-7/8 hole, 1⁰ 1475. 8.9-40-9.

Cost: \$33M

10/18/76

(5) 2565 drlg sd & sh, 9-7/8 hole, 1/2⁰ 2328.

9.8-36-12.

Cost: \$37M

10/19/76
 (6) 2990 drlg sd & sh, 9-7/8 hole, 1/4⁰ 2990.
 9.3-40-5.2.

Cost: \$46M

10/20/76
 (7) 3100 drlg sd & sh, 9-7/8 hole, NND. 9.3-65-5.4.
 13 Hrs pumping out sh on trip, add 75 B0 to mud.
 Cost: \$50M

10/21/76
 (8) 3200 ND, WOC 7-5/8 csg, 1/4⁰ 3190, ran 88 jts
 7-5/8" 26.40# & 29.70# J-55 & N-80 ST&C & LT&C csg,
 313' of 29.70# on btm, BJ Serv cmt csg on btm @
 3200 w/300 sx LW cont 5# gilsonite & 1/4# flocele/
 sx + 100 sx Class B neat, PD @ 2:00 AM, 10/21/76,
 cmt circ.
 Cost: \$59M

10/22/76
 (9) 3200 ND sd & sh, WOC addl 6 hrs, nipple up BOP
 & GIH w/bit to 3105, test csg to 1000 for 30 min
 OK, prep to drill.
 Cost: \$64M

10/23/76
 (10) 3460 drlg sd & sh, 6-1/2 hole, NND. 8.6-36-10 &
 8% Oil.
 Bit #1 HTC OWV cut 260' in 15 hrs.
 Cost: \$81M

10/24-25/76
 (11) 3850 drlg sd & sh, 6-1/2 hole, 1/2⁰ 3492.
 8.8-40-6.8 & 8.3% Oil.
 Bit #1 HTC OWV cut 292' in 20 hrs.
 Bit #2 HTC J-33 cut 358' in 31 hrs.
 Cost: \$89M

10/26/76

(12) 4127 drlg sd & sh, 6½ hole, NND. 8.9-40-4.4, 8.3% oil.
COST \$94M

10/27/76

(13) 4283 drlg sd & sh, 6½ hole, 9-40-6, 8% oil.
½ @ 4246.
COST \$123 M.

10/28/76

(14) 4554 drlg sd & sh, 6½ hole, NND.
COST \$130 M. 8.8-40-5.6, 8.3% oil.

10/29/76

(15) 4770 drlg sd & sh, 6½ hole, 8.9-40-3, 8% oil.
NND.
COST \$ 136 M.

10/30/76

(16) 4936 drlg sd & sh, 6½ hole, 8.6-42-3.6, 8% oil.
¼ @ 4894.
COST \$140 M.

10/31/76

(17) 5208 drlg sd & sh, 6½ hole, NND. 8.6-41-3.6, 8% oil.
COST \$143 M.

11/1/76

(18) 5451 drlg sd & sh, 6½ hole, NND. 8.6-40-5.6, 8% oil.
COST \$146 M.

11/2/76

(19) 5592 drlg sd & sh, 6½ hole, 8.8-42-4, 12% oil. ()
COST \$154 M.

11/3/76

(20) 5796 drlg sd & sh, 6½ hole, NND. 8.7-40-6.4,
12% oil.
COST \$159 M.

11/4/76

(21) 6002 drlg sd & sh, 6½ hole, NND.
COST \$162 M. 8.6-39-9.4, 12% oil. ()

11/5/76

(22) 6048 drlg sd & sh, 6½ hole, 8.7-34-8.4, 12% oil.
½ @ 6038, down 7-3/4 hrs rpr motor.
COST \$169 M. ()

11/6/76

(23) 6213 drlg sd & sh, 6½ hole, NND. 8.8-40-3.6.

COST \$172 M.

11/7/76

(24) 6406 drlg sd & sh, 6½ hole, NND, 8.7-40-5.6, 10% oil.

COST \$178 M.

11/8/76

(25) 6573 drlg sd & sh, 6½ hole, NND. 8.8-40-5.6, 10% oil.

COST \$182 M.

11/9/76

(26) 6680 drlg sd & sh, 6½ hole, 8.8-48-4.8, 10% oil.

½ @ 6577,

COST \$189 M.

11/10/76

(27) 6827 drlg sd & sh, 6½ hole, NND.

COST \$192 M. 8.8-44-4.6, 10% oil.

11/11/76

(28) 7024 drlg sd & sh, 6½ hole, NND.

COST \$195 M. 8.6-43-4, 10% oil.

11/12/76

(29) 7209 drlg sd & sh, 6½ hole, NND.

COST \$197 M. 8.7-42-5.6, 10% oil.

11/13/76
(30) 7300 drlg sd & sh, 6½ hole, 8.5-43-4.8, 10% oil.
½ @ 7252.
COST \$195 M.

11/14/76
(31) 7433 drlg sd & sh, 6½ hole, NND, 8.7-42-5.2,
10% oil.
COST \$198 M.

11/15/76
(32) 7514 drlg sd & sh, 6½ hole, NND, 8.8-40-7.2,
10% oil.
COST \$204 M.

11/16/76
(33) 7567 drlg sd & sh, 6½ hole, NND.
8.8-40-7.2, 10% oil.
COST \$206 M

11/17/76
(34) 7628 drlg sd & sh, 6-1/2 hole, 3/4" @ 7588.
8.8-45-7.2, 10% oil.
Cost: \$209M

11/18/76
(35) 7725 TD, trip to log sd & sh, 6-1/2" hole.
8.8-60-6.8, 10% oil.
TD 6-1/2" hole 1:30 AM, 11/18/76, circ 3 hrs,
POH prep to log.
Cost: \$215M

11/19/76
7725 ND LDDP 6-1/2" hole, 3/4" @ 7700.
8.9-60-6, 10% oil.
Dress Atlas ran Comp Neut & GR Caliper 0-7725,
Comp Density & Dual Induction 3200-7725.
Cost: \$218M

11/20/76

7725 ND, WOC 5-1/2" csg.

Ran 240 jts 4-1/2" 10.5# K-55 set @ 7725, FC @

7690, BJ cmt w/200 sx Class B neat, PD 2:30 PM,

11/19/76, Rel Cactus Rig #5 12:00 Midnight, 11/20/76

prep to move to Jicarilla "B" #3-A.

11/21/76

7725 TD.

MORT, ran temp survey top cmt @ 6200.

Cost: \$239M

11/22/76

7725 TD.

Wait on compl.

Cost: \$239M

11/23/76

7725 TD.

Wait on compl.

Cost: \$239M

11/24/76

7725 TD.

WO compl.

Cost: \$239M

11/25/76

7725 TD.

MIRU Big 4 SD unit 11/24/76.

Cost: \$239M

11/29/76

SD 9" show.

Cost: \$241M

11/30/76

7725 TD.

Pick up 3-7/8 bit, 1 - 3" DC & 241 jts 2-3/8 tbg to 7626, pull 10 stands & SDFN.

Cost: \$242M

12/1/76

7725 TD.

Rig up reverse unit, drill cmt plug & float collar to 7686, circ hole clean w/KCl wtr, spot 150 gals 15% HCl acid 7686-7466, POH, Dresser ran GRC logs 6000-7686, SDFN.

Cost: \$265M

12/2/76

7725 TD, 7686 PBDT, Dakota 7618-7686.

Dresser Atlas perf Lower Dakota 4-1/2" csg w/1 JSPF 7618-19, 20, 21, 22, 23, 30, 32, 34, 36, 38, 44, 46, 48, 50, 52, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84 and 7686, 68' - 30 holes, ran 4-1/2" Baker pkr on 2-3/8 tbg, set pkr @ 7525, Western Co acidize perf 7618-7686 w/5000 gals 15% HCl acid using 20 RCN ball sealers, max psi 4000# min 2800, avg pre 3100#, AIR 4 BPM, ISIP 1400#, 10 min 400#, Job Comp @ 4:00 PM, 12/1/76. - 155 BLW.

Cost: \$272M

12/3/76

7725 TD, 7686 PBDT, Dakota 7618-7686.

Shut in 16 hrs tbg psi 0, fluid level @ surface, swab 120 BAW/10 hrs, FI level 3400', small show of gas. - 35 BLW.

Cost: \$273M

12/4/76

7725 TD, 7686 PBDT, Dakota 7618-7686.

SI 15 hrs tbg psi 0, FI level 600', swab 35 BAW + 145 BFW/7-1/2 hrs, FI level 3500', little show of gas.

Cost: \$274M

12/6/76

SI 15 hrs tbg psi 0, csg 0, fluid level 600', swab 160 BFW/9 hrs, fluid level 3700', no shows.

Cost: \$275M

12/7/76

7725 TD, 7686 PBDT, Dakota 7618-7686.

SI 39 hrs TP 0, POH w/tbg & pkr, ran EZ drill to 7592, SDFN.

Cost: \$276M

12/8/76

7725 TD, 7592 PBDT.

Howco sq perfs 7618-7686 w/150 sx B + .6% CFR-2 max press 3000, rev out 10 sx PO of EZ Drill pkr @ 7592, spot 200 gals 15% NE HCl 7566-7268, POH tbg, Dress Atlas perf Upper Dakota w/1 JSPF 7338-7566 as follows: 7338, 40, 42 44, 46, 48, 50, 60, 62, 64, 66, 68, 70, 72, 74, 76, 84, 86, 88, 90, 92, 94, 96, 7450, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 7540, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, total 48 holes, SDFN.

Cost: \$281M

12/9/76

7725 TD, 7592 PBDT, Upper Dakota 7338-7566.

GIH w/RTTS on 2-3/8 set @ 7270, Howco acidize perfs 7338-7566 w/5200 gals 15% NE HCl + 70 RCNBS, TTP 2200-3500 @ 2-1/2 BPM, ball out ISIP 2100, 15 min 1800, FI 80 BLW/3 hrs, SDFN. - 80 BLW.

Cost: \$286M

12/10/76

7725 TD, 7595 PBDT, Upper Dakota 7338-7566.

SI 15 hrs TP 70, FL @ surf, Sw 50 BLW + 10 BNO/9 hrs, GSG LH 2 bbls S/O 15% Oil, Sw down in 5 hrs. - 30 BLW.

Cost: \$286M

12/11/76

7725 TD, 7592 PBDT.

14 hr SITP 180, 3300' FIH, S 18 BNO + 10 BLW/9 hrs, last hr sw 1 BF, S/O 90% oil, SDFN. - 20 BLW.
COST \$287 M.

12/13/76

14 hr SITP 175, 1700' FIH, 1700' FIH, S 13 BNO + 2 BLW/4 hrs, last 3 hrs sw 1 BF/hr, SDFN & Sunday.
COST \$288 M. - 18 BLW.

12/14/76

7725 TD, 7592 PBTB.

68 Hr SITP 275, csg on sl vac, 6200' FIH, Sw 8 BNO
+ 66 BLW/6 hrs, pkr or tbg leaking, SDFN.

Cost: \$288M

12/15/76

7725 TD, 7592 PBTB.

14 Hr SITP 100, CP 100, 900' FIH, rel RTTS & POH,
found hole in 3 jts of tbg, change rams in BOP,
unload 2-7/8" frac tbg, SDFN.

Cost: \$291M

12/16/76

7725 TD, 7592 PBTB, Dakota 7338-7566 OA.

PU & ran 4-1/2" RTTS pkr w/SN & 182 jts 2-7/8 N-80
Buttress tbg to 5300, testing in w/8000 psi, SDFN:

Cost: \$292M

12/17/76

7725 TD, 7592 PBTB, Dakota 7338-7566 OA.

Fin testing tbg in hole w/8000 psi & set RTTS @
7300, load backside & test w/1500 for 15 min OK,
SDFN, prep to frac.

Cost: \$293M

12/18/76

7725 TD, 7592 PBD, Dakota 7338-7566 OA.
Howco frac Dakota perfs 7338-7566 OA down 2-7/8
tbg w/ 60,000 gals Versagel + 82,500# 20/40 sd,
1# to 2½# sd/gal - 3 stage of 20,000 gals, drop
8 RCNBS after 1st stage and 11 RCNBS after 2nd
stage, TTP 4400-6400, AIR 20 BPM, ISDTP 2100,
5 min SITP 1900, 15 min 1800, job compl @ 2 PM
12/17/76, SI & SDFN. - 1480 BLW.
COST \$318 M.

12/19/76

18 hr SITP 1175, CP 1000, F 5 BNO + 290 BLW/8
hrs on 1" ck, last hr fl 12 BF, S/O 8% oil,
TP 0-50, left fl over night, SDFN & Sunday.
COST \$318 M. - 1190 BLW.

12/20/76

F 20 BNO + 45 BLW/24 hrs on 1" ck, TP 0-50,
cont to fl & test. - 1145 BLW.
COST \$318 M.

12/21/76

7725 TD, 7592 PBD, Dakota 7338-7566 OA.
F 18 BNO + 18 BLW/15 hrs on 1" ck, TP 10-40,
CP 20, LD 160 jts 2-7/8 frac tbg, well kicked,
SDFN.
COST \$319 M.

12/22/76

7725 TD, 7592 PBD.
SITP 40, CP 150, killed well w/ 70 bbls 2% KCl
wtr, POH w/ 2-7/8 & pkr, GIH w/ hydrostatic
bailer on 44 jts, well kicked, SDFN.
COST \$322 M.

12/23/76

7725 TD, 7592 PBD, Dakota 7338-7566.
FIH w/ hyd bailer, CO frac sd 7571-7587, POH,
WIH w/ 2-3/8 set @ 7568, SN 7563, TA 7155 w/
12,000# T, instl tree, SDFN. - 1250 BLW.
COST \$324 M.

12/27/76

7725 TD, 7592 PBDT, Dakota 7338-7566.

14 hr SITP & CP 200, fl 14 bbls & died, S & F

50 BNO + 100 BLW/6 hrs, fl 400-1800. - 1140 BLW.

COST \$325 M.

12/28/76

7725 TD, 7592 PBDT, Dakota 7338-7566.

87 hr SI tbg psi 300, csg 500, FL 500, S & F

50 BNO + 160 BLW/7 hrs, FL 3000. - 980 BLW.

COST \$328 M.

12/29/76

7725 TD, 7592 PBDT, Dakota 7338-7566.

SI 14½ hrs, CP 300, S 70 BNO + 50 BLW/7 hrs,

18 bbls last hr, FL 800-4000. - 930 BLW.

COST \$329 M.

12/30/76

7725 TD, 7592 PBDT, Dakota 7338-7566.

MO Big A DD unit 12/29/76, SI, WO PU & rods,

rel to Prod 12/29/76. - 930 BLW.

12/30/76

Prep to set PU.

- 930 BLW.

COST \$329 M.

1/3/77

7725 TD, 7592 PBDT, Dakota 7338-7566.

Prep to set PU.

- 930 BLW.

COST \$329 M.

1/4/77

7725 TD, 7592 PBDT, Dakota 7338-7566.

Prep to set PU.

COST \$329 M.

- 930 BLW.

1/5/77

7725 TD, 7592 PBDT, Dakota 7338-7566.

Prep to set PU.

COST \$329 M.

- 930 BLW.

1/6/77

7725 TD, 7592 PBDT, Dakota 7338-7566.

SD - weather.

COST \$329 M.

- 930 BLW.

1/7/77

7725 TD, 7592 PBDT, Dakota 7338-7566.

Prep to set PU.

Cost: \$329M

1/10/77

7725 TD, 7592 PBDT, Dakota 7338-7566.

Poured PU foundation, SD 2 days - weather.

COST \$329 M.

- 930 BLW.

1/11/77

7725 TD, 7592 PBDT, Dakota 7338-7566.
SD -weather. - 930 BLW.
COST \$329 M.

1/12/77

7725 TD, 7592 PBDT, Dakota 7338-7566.
SD - weather. - 930 BLW.
COST \$329 M.

1/13/77

7725 TD, 7592 PBDT, Dakota 7338-7566.
Clear roads, work on connections. - 930 BLW.
COST \$329 M.

1/14/77

7725 TD, 7592 PBDT, Dakota 7338-7566.
Lay flowline, prep to set PU. - 930 BLW.
COST \$329 M.

1/17/77

7725 TD, 7592 PBDT, Dakota 7338-7566.
Prep to set PU & run rods. - 930 BLW.
COST \$329 M.

1/18/77

7725 TD, 7592 PBTB, Dakota 7338-7566.

Setting PU.

COST \$329 M.

- 930 BLW.

1/19/77

7725 TD, 7592 PBTB, Dakota 7338-7566.

Setting PU, prep to run rods & pump. - 930 BLW.

COST \$329 M.

1/20/77

7725 TD, 7592 PBTB, Dakota 7338-7566.

Drake Well Serv MIRU PU 1/19/77, ran 2 x 1-1/2
x 20' pump on 5250' 3/4" + 2250' 7/8 rods, prep
to POP, well F 70 BLO.

- 860 BLW.

Cost: \$329M

1/21/77

7725 TD, 7592 PBTB, Dakota 7338-7566.

Tying in well connections, prep to POP. - 860 BLW.

Cost: \$329M

1/24/77

7725 TD, 7592 PBTB, Dakota 7338-7566.

POP 1/21/77, P 302 BNO + 10 BLW/62 hrs. - 850 BLW.

Cost: \$329M

1/25/77

7725 TD, 7592 PBTB, Dakota 7338-7566.

P 65 BNO + 1 BLW/16 hrs, engine down. - 849 BLW.

Cost: \$329M

1/26/77

7725 TD, 7592 PBTB, Dakota 7338-7566.

P 40 BNO + 1 BLW/10 hrs, engine down. - 848 BLW.

Cost: \$329M

1/27/77

7725 TD, 7592 PBTB, Dakota 7338-7566.

P 25 BNO + 1 BLW/10 hrs, engine down, prep to
send engine for overhaul. - 847 BLW.

Cost: \$329M

1/28/77

7725 TD, 7592 PBTB, Dakota 7338-7566.

SI, engine overhaul. - 847 BLW.

Cost: \$329M

1/31/77

7725 TD, 7592 PBTB, Dakota 7338-7566.

SI, engine overhaul. -847 BLW.

Cost: \$329M

2/1/77

7725 TD, 7592 PBDT, Dakota 7338-7566.

SI, engine overhaul.

- 847 BLW.

Cost: \$329M

2/2/77

7725 TD, 7592 PBDT, Dakota 7338-7566.

Put on pump 2/1/77, P 89 BNO + 1 BLW/16 hrs.

- 846 BLW.

Cost: \$329M

2/3/77

7725 TD, 7592 PBDT, Dakota 7338-7566.

P 87 BNO + 1 BLW/24 hrs, gas vol TSTM. - 845 BLW.

Cost: \$329M

2/4/77

7725 TD, 7592 PBDT, Dakota 7338-7566.

NMOCC POT TEST: P 90 BNO + 2 BLW/24 hrs, 6 1-1/2"
x 84" SPM, GOR TSTM, 41.2 @ 60°, (pour point 80°)

Allow 90 BPDNP, Top 267, completed 1/21/77.

FINAL REPORT.

Cost: \$407M