



dugan production corp.

January 18, 1991

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OIL CON. DIV
DIST. 3

Mr. W.R. Humphries
Commissioner of Public Lands
New Mexico State Land Office
P.O. Box 1148
Santa Fe, NM 87504-1148

Re: Dugan Production Corp.
Little b #2
State Lease No. LG-9090
1850' FNL & 1850' FEL
Sec. 36, T23N, R8W, NMPM
San Juan County, NM

Dear Mr. Humphries:

Attached please find a copy of our final drilling report for the subject well.

Sincerely,

John Alexander
Operations Manager

cg

enc.

✓cc: Frank Chavez, NMOCD, Aztec

dugan production corp.

DUGAN PRODUCTION CORP.

Little b #2

1850' FNL & 1850' FEL

Sec. 36, T23N, R8W, NMPM

San Juan County, NM

DAILY REPORTS

- 11-23-90 Move in & rig up Salazar Rig #4. Spud 9-7/8" hole at 2:00 P.M. 11-23-90. Drilled surface to 95'. Deviation 0° @ 95'. Circulate hole. T.O.H. with collars & bit. T.I.H. with 3 jts. 7", 20#, J-55 casing landed at 90'. Rig up Cementers Inc. Pump 5 bbls water. Cement with 40 sacks class "B" neat cement (47.2 cf). Displace with 2.5 bbls water. Plug down 6:00 P.M. Circulate 1 bbl cement.
- 11-24-90 400' - Drilling (Footage 300'). Nipple up BOP. Pressure test to 600 psi - held OK. Drilled 100' to 400'. T.O.H. for night.
- 11-25-90 1100' - Drilling (Footage 700')
Deviations - 1/2° @ 500'; 3/4° @ 1000'
T.I.H. with 6-1/4" bit & pipe. Drilled with water 400-1100'. T.O.H. with pipe. Shut in for night.
- 11-26-90 1400' - Drilling (Footage 300').
T.I.H. with 6-1/4" bit and pipe. Drilled with water and gel 1100-1400'. T.O.H. with pipe. Shut in for night.
- 11-27-90 1680' - Drilling (Footage 280') Deviation 1/2° @ 1500'
T.I.H. with 6-1/4" bit & pipe. Drilled with gel and water 1400-1680'. T.O.H. with pipe and bit. Shut in for night.
- 11-28-90 1920' - Drilling (Footage 240')
T.I.H. with 6-1/4" bit & pipe. Drilled with gel and water 1680-1920'. T.O.H. with pipe and bit. Shut in for night.
- 11-29-90 **T.D. 2045' reached on 11-29-90.** (Footage 125').
T.I.H. with pipe. Condition hole 2045'. T.I.H. with bit & pipe. Drill with gel and water 1920-2045'. Circulate hole. T.O.H. with pipe & bit. Rig up loggers. Run IES & CDL logs. Shut in for night. 1/2° @ 1980'

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- 11-30-90 T.D. 2045' reached on 11-29-90. T.I.H. with 6-1/4" bit & pipe to 2037'. Circulate hole. Lay down drill pipe and collars. Nipple down BOP. T.I.H. with 49 jts. 4-1/2", 10.5#, J-55 casing landed at 2034', FC at 1998'. Washed bridges at 1625' and 1800'. No fill on bottom. Circulate hole. Pump 15 bbls water. Cement with 95 sx 2% Lo-dense with 1/4# celloflake/sk, tail with 165 sx class "B" cement with 1/4# celloflake/sk (387 cu.ft. total slurry). Displace with 32 bbls water. Plug down 8:30 P.M. 11-30-90. Had good circulation throughout job. Circulate trace of cement.
- 12-5-90 Move in & rig up Maness Swabbing Unit and Basin Perforators. Swab 4-1/2" casing down to 1550'. Run GR-CCL log from P.B.T.D. 2010' to 800'. Perforate 1761, 1767, 1777, 1789, 1801, 1808, 1821, 1832, 1839, 1847, 1853, 1860 with 1 JSPF (12 holes total). Swab 4-1/2" casing to P.B.T.D, wait 20 minutes, swab well & recovered 50' of fluid. Shut well in. Rig down and move.
- 12-7-90 Rig up Smith Energy. Pump 500 gals 15% HCL. Displace with 33 bbls water. Broke down at 1400 psi. Pump 5.5 BPM @ 800 psi. ISIP 600 psi. Move in & rig up Maness. Swab down 10 runs. Wait 30 minutes - 40' fluid entry. Shut in.
- 12-8-90 Shut in for weekend.
thru
12-9-90
- 12-10-90 Casing pressure 22#. Gas won't burn, but at end of blow gas burns. Fluid level 1650'. Wait 30 minutes - 60' fillup. No fluid recovery except bailer full of water. Repeat swab run - same results. Changed to Regal cup. Ran swab to 1950'. Good water recovery. Wait 30 minutes. Ran swab - 60' fillup. No recovery except bailer full of water. Repeat run - same results.
- 12-27-90 Checked SIP - 110 psi. While blowing down to frac, fumes appeared to be natural gas. Rigged up and foam fraced by Smith Energy Services and B.J. Service as follows:
Frac Chacra interval 1761-1860':
10,000 gals 70 Q foam - pad
9,000 gals 70 Q foam - 1 ppg 12/20 sand
9,000 gals 70 Q foam - 2 ppg 12/20 sand
5,000 gals 70 Q foam - 3 ppg 12/20 sand
2,000 gals 70 Q foam - 4 ppg 12/20 sand
1,200 gals 70 Q foam - flush
Totals: 36,200 gals 70 Q foam & 50,000# 12/20 sand
(Continued on next page)

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- 12-27-90 All fluid contained WGA-06 gel, WEB-02 breaker, FAA-02
(con't) foam
Average injection rate 20 BPM @ 1400.
ISIP - 1300 psi 15 minute - 1150 psi
- 12-28-90 Flowing to atmosphere thru 1/2" choke. Still slugging
water by heads. Left open to atmosphere.
- 12-29-90 Well flowing dry thru 1/2" choke making estimated 50-75
MCFGPD. Shut well in for weekend.
- 1-3-91 Move in & rig up Maness. SICP 450 psi. Open to
atmosphere after flowing 1 hour. Installed 3/4" choke.
Making 680 MCF - 32 psi. Open thru 2" valve. Left
flowing to pit overnight.
- 1-4-91 T.I.H. with 1-1/4" tubing. Tag @ 1856' - one perf
covered. Land tubing 56 jts. 1-1/4" OD, EUE, 10 RD
tubing @ 1810' with cross pin on bottom. Shut in. Rig
released.
- 1-7-91 SITP 360 psi. SICP 380 psi. (These pressures after
approximately 65 hours).