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NT Minerals and Energy

Petroleum Exploration Reports

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InfoCentre

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PR95-46

Santos

EAST MEREENIE 38

P4 RESERVOIR PRESSURE BUILD-UP PROGRAM

Distribution:

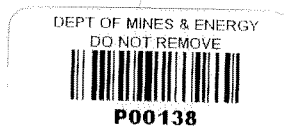
Well File (Brisbane)
Mereenie
Magellan Petroleum
NT DME

Original
(1) -
(1)
(1)

Prepared by:

PB Lansom
Senior Petroleum Engineer
Moonie Oil N.L.
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20/215 Adelaide Street
BRISBANE QLD 4001

August 1995



A Member of the Santos Ltd Group of Companies

PR95-46

EAST MEREENIE 38
PRESSURE BUILD-UP PROGRAM

Objective:

- 1) To obtain reservoir properties to:
 - a) assist in the design of the fracture stimulation treatment
 - b) determine reservoir pressure in the P4 unit.

Contact Personnel:

P B Lansom (07) 228 6541

Program:

- 1) Rig up wireline unit on well location and pressure test lubricator. Function test BOP's.
Keep well flowing if possible.
- 2) RIH with a 44.5 mm (1.75") blind box to PBDT at approximately 1541 m KB (5056' KB) (PBDT is the TCP firing head). Record depth. POOH with blind box.
PLUG BACK TOTAL DEPTH?
- 3) RIH with a 47.0 mm (1.85") gauge ring and locate "XN" nipple at approximately 1532 m KB (5025' KB). Record depth. POOH with gauge ring.
- 4) RIH with DHSIT receptacle and set in 'XN' nipple. POOH running tool.
- 5) Make up gauge assembly with on Schlumberger SLSR-A EMR gauge and one Amerada gauge (0 - 3000 psi). Attach to DHSIT prong with shock absorber.
DOWNHOLE SHUT IN TOOL
- 6) RIH DHSIT prong with pressure gauge and latch into DHSIT receptacle. Pick up weight to confirm prong has been latched in.
- 7) Flag the line to mark when the tool is open.
- 8) Keep the well on production for another two hours, for rate stabilisation.
- 9) Pick up 700 lbs above tool string weight to close DHSIT. Hold this tension and flag the line to mark when the tool is closed. Close tubing wing valve and shut-in the well for a 72 hour pressure build-up survey.
- 10) Record wellhead pressure with a vaetrix gauge and report all the daily results to Brisbane office.
- 11) After build-up, release tension and pick up weight to the equalise position. Monitor tubing pressure until equalised.
- 12) Release line tension to normal string weight and then POOH with DHSIT prong.
- 13) RIH with GS pulling tool, latch DHSIT receptical and POOH with all.
- 14) Rig down wireline unit.
- 15) Bring well back on line gradually over a period of 24 hours to ensure no damage from fines migration. Final choke setting should be 16/64".

EAST MEREENIE 38
PRESSURE BUILD-UP PROGRAM

Prepared by: *John Lewis*
Senior Petroleum Engineer

Date: 22/8/95

Approved by: *D. J. Reeve*
Supervising Chief Petroleum Engineer

Date: 22/8/95

Approved by: *Andrew Mayers*
Manager - Petroleum Engineering & Drilling - QNT

Date: 22/8/95

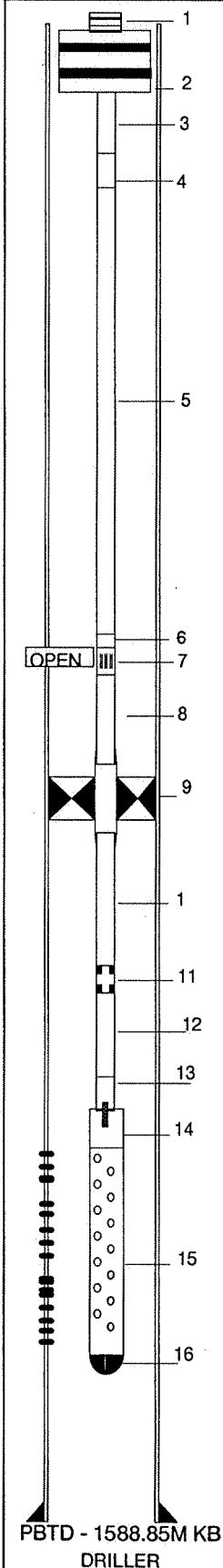
PETROLEUM ENGINEERING DEPARTMENT

DOWNHOLE 2-3/8" T.C.P. SINGLE COMPLETION

Santos

WELL: EAST MEREENIE 38

DATE: 6/8/95



ITEM No.	DESCRIPTION	LENGTH (M)	DEPTH KB (M)	MIN. ID. (in)														
1	K.B. TO THE TOP TUBING HEAD SPOOL	4.98																
2	KVAERNER NATIONAL 2-3/8" EUE TUBING HANGER	0.35																
3	PUP JOINT 2-3/8" 4.7# J55 EUE	5.55		1.99														
4	X/O 2-3/8" EUE BOX X 2-3/8" LOCKIT PIN J55	0.34																
5	158 X JOINTS 2-3/8" 4.6# J55 LOCKIT TUBING	1498.14																
6	X/O 2-3/8" LOCKIT BOX X 2-3/8" EUE PIN J55	0.48																
7	1 X 2-3/8" EUE OTIS 121XA SLIDING SLEEVE (DOWN TO OPEN)	0.88	1509.84	1.875														
8	1 X JOINT 2-3/8" 4.7# J55 EUE TUBING	9.63																
9	1 X 2-3/8" X 5-1/2" OTIS PLS PKR13# TO 17# 45000lbs shear	1.80																
10	1 X JOINT 2-3/8" 4.7# J55 EUE TUBING	9.60																
11	1 X 2-3/8" OTIS 11XN LANDING NIPPLE EUE	0.39	1531.75	1.791														
12	1 X JOINT 2-3/8" 4.7# J55 EUE TUBING	9.60																
13	1 X 2-3/8" EUE SCHLUMBERGER OPEN SYSTEM FIRING HEAD	0.56	1541.74															
14	1 X 3-3/8" SAFETY SPACER	1.70																
15	1 X 3-3/8" TCP PERFORATING GUN LOADED 6SPF 22gm	8.00	1544.00															
16	1 X 3-3/8" EMPTY GUN SPACE AND BULL NOSE	0.18	1552.00															
	END OF PERFORATION GUNS		1552.18															
<p>NOTE: GAMMER-RAY PIP TAG INSTALLED IN TOP OF PACKER.</p> <p>NOTE: TUBING HANGER HAS CIW BPV PREPARATION</p> <p>NOTE : 1.5" DROP BAR ON TOP OF FIRING HEAD.</p>																		
<p>PERFORATION INTERVALS:</p> <table border="1"> <thead> <tr> <th>FORMATION</th> <th>INTERVAL (M / KB)</th> <th>SIZE</th> <th>TYPE</th> <th>SPF</th> <th>TYPE</th> <th>WT(g)</th> </tr> </thead> <tbody> <tr> <td>PACOTA P4</td> <td>1530m to 1535.5m</td> <td>3-3/8"</td> <td>TCP</td> <td>6</td> <td>RDX</td> <td>22</td> </tr> </tbody> </table>					FORMATION	INTERVAL (M / KB)	SIZE	TYPE	SPF	TYPE	WT(g)	PACOTA P4	1530m to 1535.5m	3-3/8"	TCP	6	RDX	22
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PACOTA P4	1530m to 1535.5m	3-3/8"	TCP	6	RDX	22												
<p>REMARKS: String weights includes 4M for travelling block assembly.</p> <p>ANNULUS FLUID: 2% KCL BRINE 8.4PPG FILTERED TO 10 MICRON</p> <p>INDICATED STRING WEIGHT: 18000LBS (buoyant)</p> <p>CALCULATED STRING WEIGHT: 18000LBS</p> <p>SLACK-OFF WEIGHT:</p> <p>TENSION: 8000LBS buoyant</p>																		
NOT TO SCALE		WELLSITE SUPERVISOR		I. FENDLEY														
PROPOSED:		INSTALLATION		DATE: 23/6/95														
RE-COMPLETION:		DRAFTED: I. FENDLEY		DATE: 23/6/95														
COMPLETION: yes		REVISED:		DATE:														
CHECKED BY		BRIS:		BRIS:														

PBTD - 1588.85M KB
DRILLER